

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG08B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-023

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00578

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/27 - 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 0.51 | 0.75 | 0.092 | 0.12 | 0.17 | 0.021 | J |
| 179601-23-1 | m,p-Xylenes | 1.4 | 0.75 | 0.19 | 0.31 | 0.17 | 0.045 | |
| 75-25-2 | Bromoform | ND | 0.75 | 0.11 | ND | 0.072 | 0.011 | |
| 100-42-5 | Styrene | 0.31 | 0.75 | 0.11 | 0.072 | 0.18 | 0.027 | J |
| 95-47-6 | o-Xylene | 0.55 | 0.75 | 0.094 | 0.13 | 0.17 | 0.022 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | 0.095 | ND | 0.022 | 0.014 | |
| 98-82-8 | Cumene | ND | 0.75 | 0.083 | ND | 0.15 | 0.017 | |
| 103-65-1 | n-Propylbenzene | 0.13 | 0.75 | 0.077 | 0.027 | 0.15 | 0.016 | J |
| 622-96-8 | 4-Ethyltoluene | 0.11 | 0.75 | 0.085 | 0.022 | 0.15 | 0.017 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.27 | 0.75 | 0.089 | 0.054 | 0.15 | 0.018 | J |
| 98-83-9 | alpha-Methylstyrene | ND | 0.75 | 0.11 | ND | 0.15 | 0.023 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.60 | 0.75 | 0.10 | 0.12 | 0.15 | 0.021 | J |
| 100-44-7 | Benzyl Chloride | ND | 0.15 | 0.13 | ND | 0.029 | 0.025 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.15 | 0.092 | ND | 0.025 | 0.015 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | 0.15 | 0.083 | 0.046 | 0.025 | 0.014 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.75 | 0.086 | ND | 0.14 | 0.016 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.52 | 0.75 | 0.097 | 0.095 | 0.14 | 0.018 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.15 | 0.098 | ND | 0.025 | 0.016 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.75 | 0.11 | ND | 0.077 | 0.012 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.15 | 0.11 | ND | 0.020 | 0.015 | |
| 91-20-3 | Naphthalene | 0.44 | 0.30 | 0.11 | 0.084 | 0.057 | 0.021 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.15 | 0.13 | ND | 0.014 | 0.013 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.30 | 0.075 | ND | 0.054 | 0.014 | |
| 104-51-8 | n-Butylbenzene | 0.16 | 0.30 | 0.075 | 0.029 | 0.054 | 0.014 | J, M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

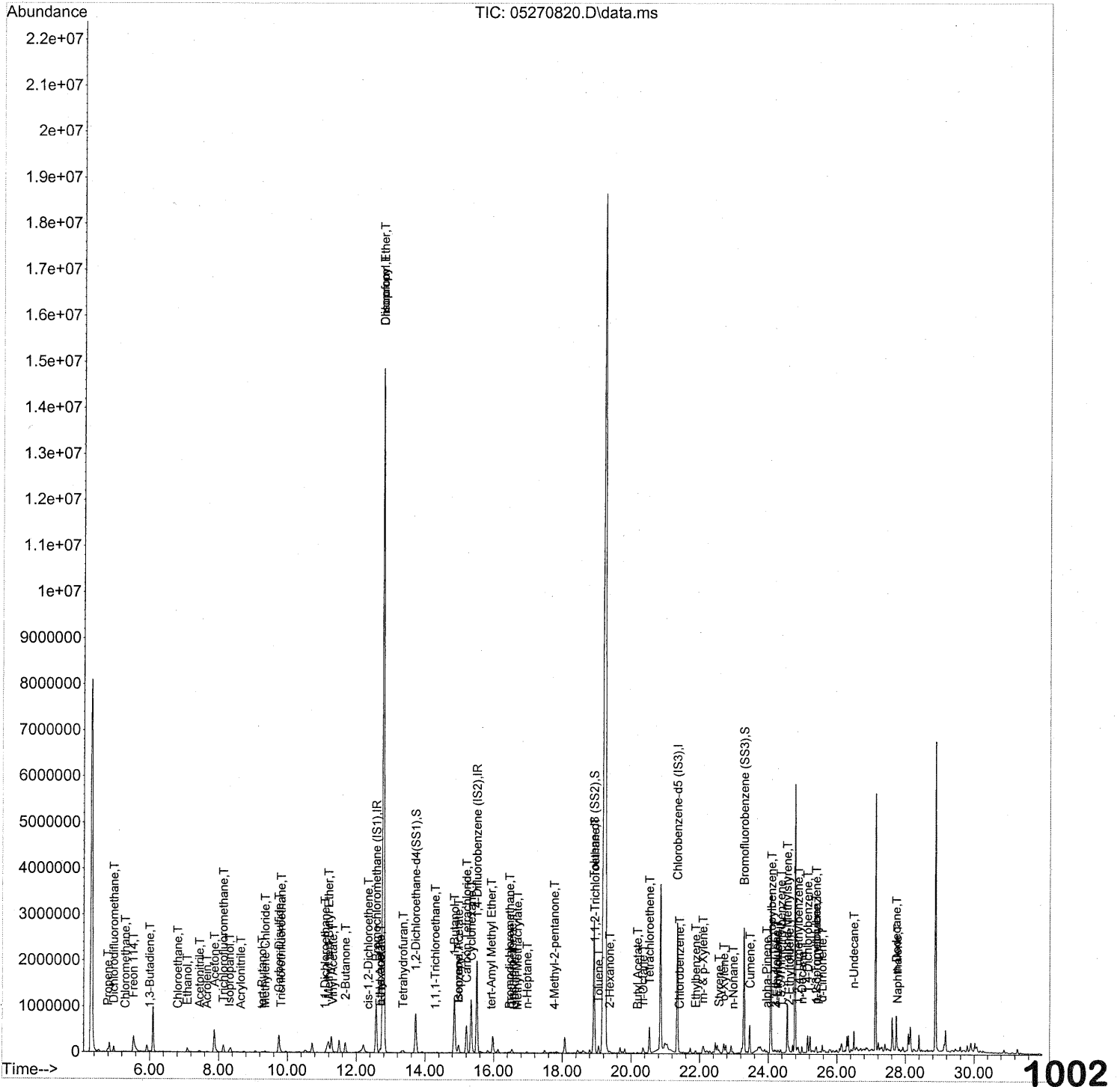
Verified By: CA

Date: 6/4/08

1001

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 11:49:34 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



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| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 568180 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2384709 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1120415 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|------------|---------|-------|-----------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 872399 | 22.160 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 88.64% | | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2456835 | 24.416 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 97.68% | | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 1036938 | 25.341 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 101.36% | | ✓ |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|----------|--------|
| 2) Propene | 4.79 | 42 | 27899 | 0.622 | ng | 99 |
| 3) Dichlorodifluoromethane | 4.96 | 85 | 122789 | 1.485 | ng | 99 |
| 4) Chloromethane | 5.30 | 50 | 2985 | 0.056 | ng | 82 |
| 5) Freon 114 | 5.53 | 135 | 2762 | 0.068 | ng | 90 |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 6.00 | 54 | 9116 | 0.229 | ng | # 86 |
| 8) Bromomethane | 6.48 | 94 | 868 | N.D. | ✓ | |
| 9) Chloroethane | 6.82 | 64 | 6655 | 0.261 | ng | 95 |
| 10) Ethanol | 7.10 | 45 | 173726m | 5.815 | ng | |
| 11) Acetonitrile | 7.45 | 41 | 54262 | 0.628 | ng | 97 |
| 12) Acrolein | 7.66 | 56 | 16878 | 0.791 | ng | 95 |
| 13) Acetone | 7.88 | 58 | 239945m | 7.845 | ng | |
| 14) Trichlorofluoromethane | 8.14 | 101 | 170580 | 2.404 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 118307 | 1.213 | ng | 97 |
| 16) Acrylonitrile | 8.65 | 53 | 2829 | 0.061 | ng < HDL | 95 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 1241 | N.D. | ✓ | |
| 18) tert-Butanol | 9.27 | 59 | 33331m | 0.402 | ng | |
| 19) Methylene Chloride | 9.36 | 84 | 12526 | 0.366 | ng | # 75 |
| 20) Allyl Chloride | 9.54 | 41 | 1073 | N.D. | ✓ | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 10762 | 0.333 | ng | 100 |
| 22) Carbon Disulfide | 9.75 | 76 | 838543 | 6.465 | ng | 100 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 193 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 3154 | 0.053 | ng | 89 |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 248587 | 2.513 | ng | 85 |
| 26) Vinyl Acetate | 11.31 | 86 | 10148 | 1.795 | ng | # 8 |
| 27) 2-Butanone | 11.68 | 72 | 85896 | 3.848 | ng | # 85 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 4257 | 0.088 | ng | 77 |
| 29) Diisopropyl Ether | 12.78 | 87 | 1898706 | 69.412 | ng NR# | 1 |
| 30) Ethyl Acetate | 12.69 | 61 | 10107 | 0.839 | ng | # 71 |
| 31) n-Hexane | 12.69 | 57 | 18888 | 0.311 | ng | # 1003 |

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|-------------------------------|-------|------|----------|--------------------|-------|-------------------|
| 32) Chloroform | 12.78 | 83 | 16693402 | 322.198 | ng | 97 <i>see dil</i> |
| 34) Tetrahydrofuran | 13.36 | 72 | 11243 | 0.527 | ng | # 76 |
| 35) Ethyl tert-Butyl Ether | 13.49 | 87 | 248 | N.D. | ✓ | |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 815 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 14.30 | 97 | 3695 | 0.068 | ng | # 66 |
| 39) Isopropyl Acetate | 14.97 | 61 | 1713 | 0.084 | ng | # 1 |
| 40) 1-Butanol | 14.86 | 56 | 1065286 | 32.500 | ng | 85 |
| 41) Benzene | 14.98 | 78 | 201610 | 1.615 | ng | 98 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 523580 | 10.888 | ng | 99 |
| 43) Cyclohexane | 15.35 | 84 | 56780 | 1.169 | ng | # 1 |
| 44) tert-Amyl Methyl Ether | 15.93 | 73 | 7566 | 0.084 | ng | NR # 62 |
| 45) 1,2-Dichloropropane | 16.19 | 63 | 1202 | N.D. | ✓ | |
| 46) Bromodichloromethane | 16.46 | 83 | 17438 | 0.413 | ng | 96 |
| 47) Trichloroethene | 16.53 | 130 | 32136 | 0.839 | ng | 100 |
| 48) 1,4-Dioxane | 16.50 | 88 | 628 | N.D. | ✓ | |
| 49) Isooctane | 16.61 | 57 | 11352 | 0.079 | ng | # 50 |
| 50) Methyl Methacrylate | 16.70 | 100 | 834 | 0.067 | ng | NR # 1 |
| 51) n-Heptane | 16.98 | 71 | 7819 | 0.236 | ng | # 78 |
| 52) cis-1,3-Dichloropropene | 17.85 | 75 | 304 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 5052 | 0.152 | ng | 89 |
| 54) trans-1,3-Dichloropropene | 18.47 | 75 | 64 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.95 | 97 | 215976 | 7.000 | ng | NR # 9 |
| 58) Toluene | 19.06 | 91 | 147680 | 1.080 | ng | 97 |
| 59) 2-Hexanone | 19.38 | 43 | 22435 | 0.238 | ng | # 69 |
| 60) Dibromochloromethane | 19.61 | 129 | 718 | N.D. | ✓ | |
| 61) 1,2-Dibromoethane | 19.74 | 107 | 61 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.19 | 43 | 18465 | 0.193 | ng | 82 |
| 63) n-Octane | 20.35 | 57 | 5081 | 0.168 | ng | 98 |
| 64) Tetrachloroethene | 20.54 | 166 | 219277 | 5.418 | ng | 100 |
| 65) Chlorobenzene | 21.42 | 112 | 5244 | 0.057 | ng | 96 |
| 66) Ethylbenzene | 21.89 | 91 | 53507 | 0.341 | ng | 95 |
| 67) m- & p-Xylene | 22.10 | 91 | 95492 | 0.910 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 130 | N.D. | ✓ | |
| 69) Styrene | 22.57 | 104 | 19207 | 0.205 | ng | 93 |
| 70) o-Xylene | 22.71 | 91 | 41976 | 0.371 | ng | 93 |
| 71) n-Nonane | 22.98 | 43 | 17169 | 0.214 | ng | 85 |
| 72) 1,1,2,2-Tetrachloroethane | 22.68 | 83 | 428 | N.D. | ✓ | |
| 74) Cumene | 23.47 | 105 | 8100 | 0.054 | ng | 98 |
| 75) alpha-Pinene | 23.96 | 93 | 24346 | 0.312 | ng | 93 |
| 76) n-Propylbenzene | 24.10 | 91 | 17312 | 0.090 | ng | # 81 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 32562 | 0.203 | ng | 95 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 11146 | 0.074 | ng | 97 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 24055 | 0.178 | ng | 99 |

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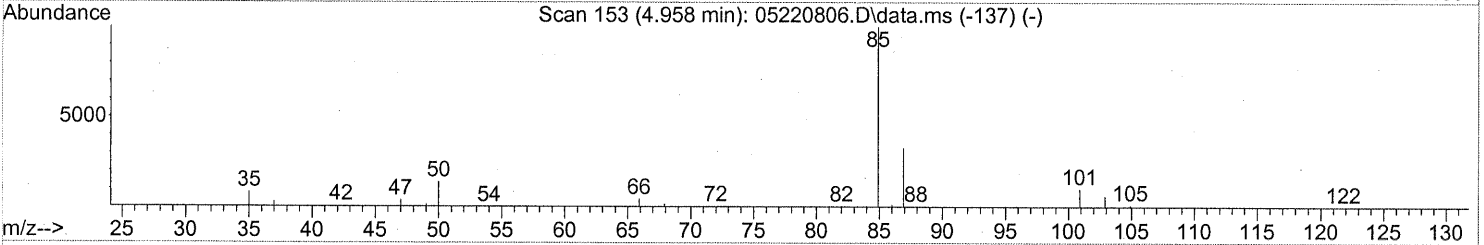
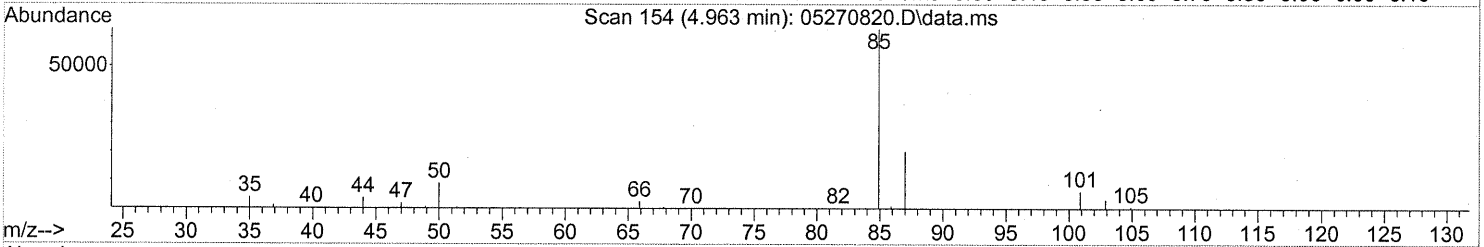
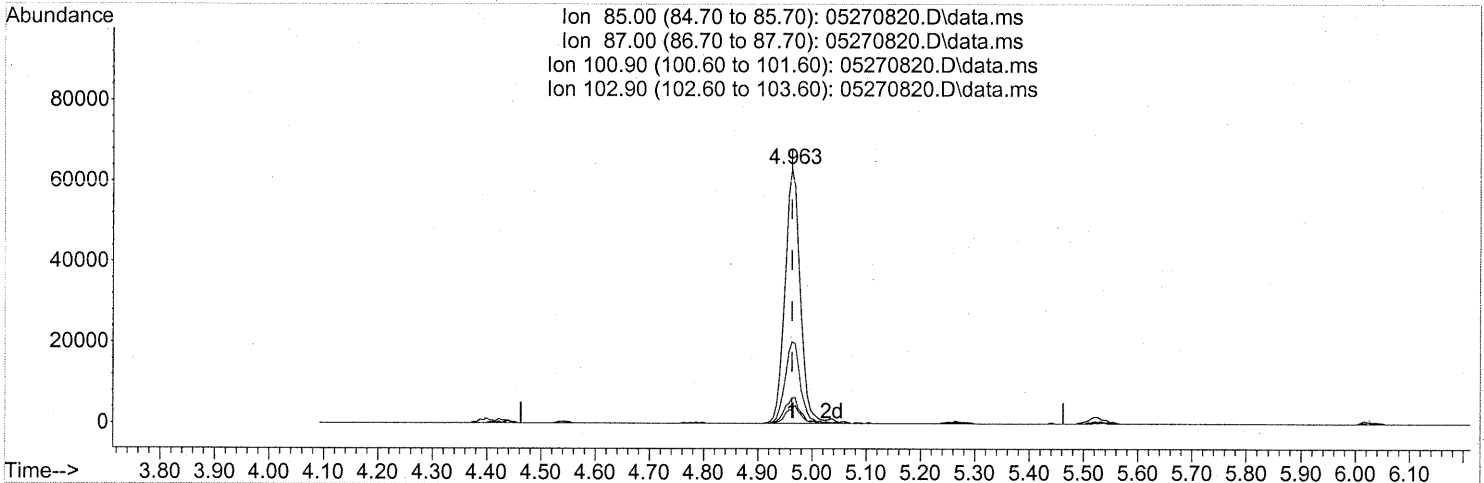
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------------|------|----------|------------------|-------|----------|
| 80) alpha-Methylstyrene | 24.55 | 118 | 3895 | 0.053 | ng | # 1 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 17177 | 0.106 | ng | 96 |
| 82) 1,2,4-Trimethylbenzene | <u>24.88</u> | 105 | 55901 | <u>0.406</u> | ng | 89 |
| 83) n-Decane | 24.98 | 57 | 51311 | 0.678 | ng | 80 |
| 84) Benzyl Chloride | 25.04 | 91 | 3197 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 2973 | N.D. | ✓ | |
| 86) 1,4-Dichlorobenzene | <u>25.15</u> | 146 | 15367 | <u>0.184</u> | ng | 98 |
| 87) sec-Butylbenzene | 25.21 | 105 | 4905 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | <u>25.39</u> | 119 | 50690 | <u>0.350</u> | ng | 98 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 21926 | 0.163 | ng | 88 |
| 90) 1,2-Dichlorobenzene | 25.56 | 146 | 2514 | N.D. | ✓ | |
| 91) d-Limonene | 25.57 | 68 | 42294 | 0.771 | ng | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.24 | 157 | 295 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 176722 | 2.230 | ng | 83 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 788 | N.D. | ✓ | |
| 95) Naphthalene | <u>27.77</u> | 128 | 53295 | <u>0.294</u> | ng | 94 |
| 96) n-Dodecane | 27.73 | 57 | 251116 | 3.186 | ng | 84 |
| 97) Hexachloro-1,3-butadiene | 28.18 | 225 | 1657 | N.D. | ✓ | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

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TIC: 05270820.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 1.48ng

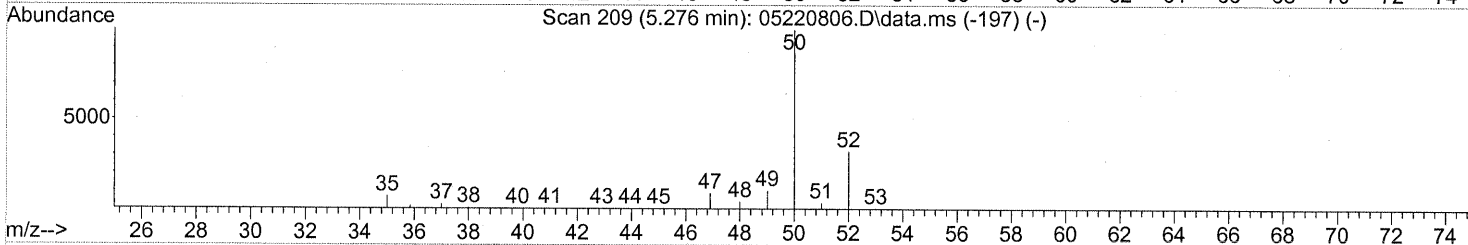
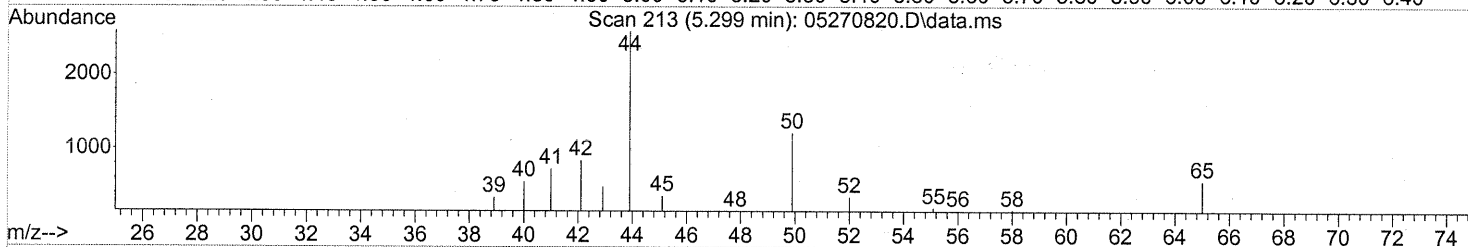
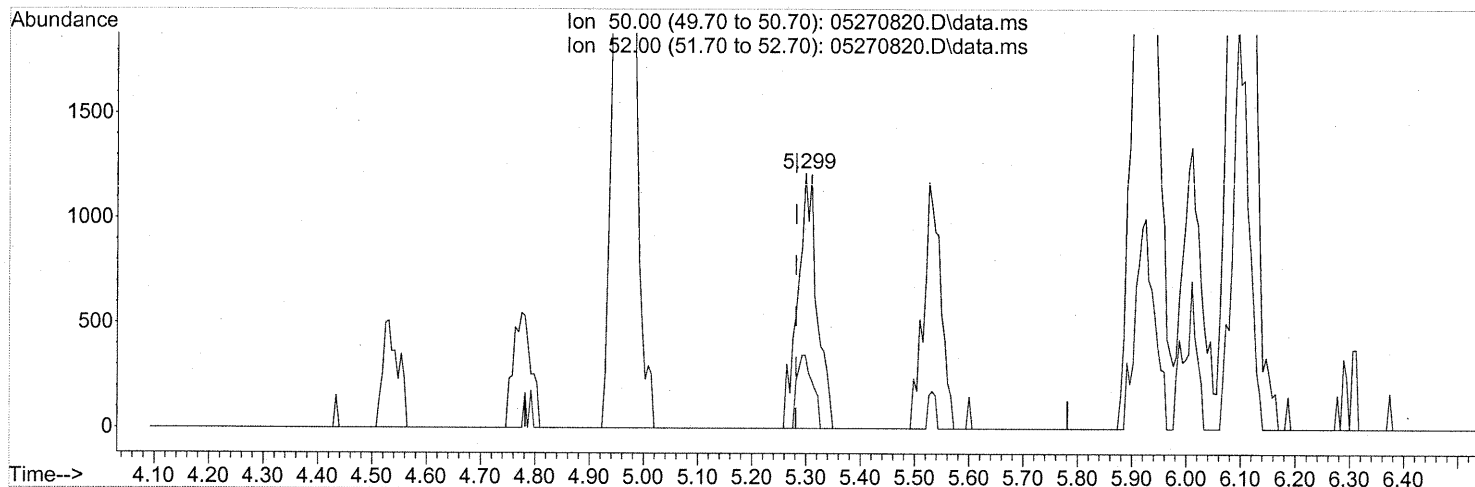
response 122789

| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 32.29 |
| 100.90 | 9.30 | 9.97 |
| 102.90 | 6.00 | 6.33 |

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TIC: 05270820.D\data.ms

(4) Chloromethane (T)

5.299min (+0.017) 0.06ng

response 2985

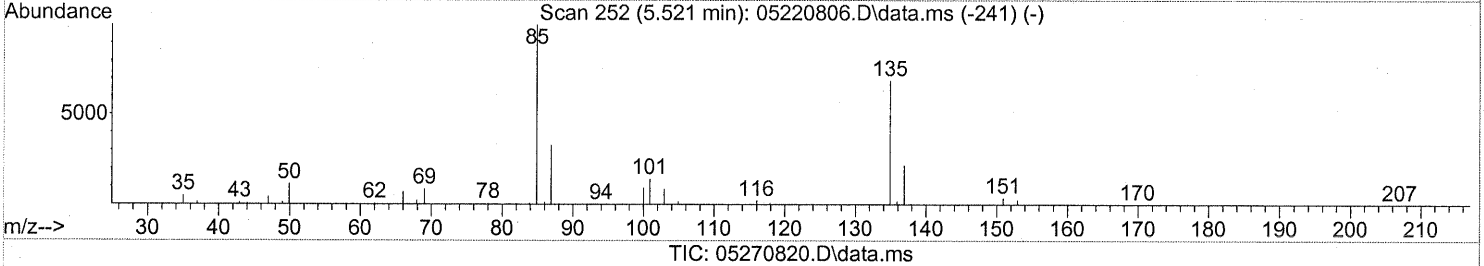
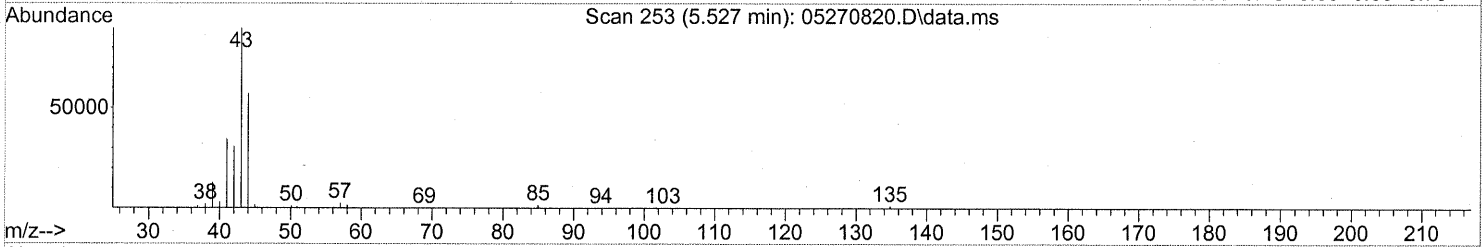
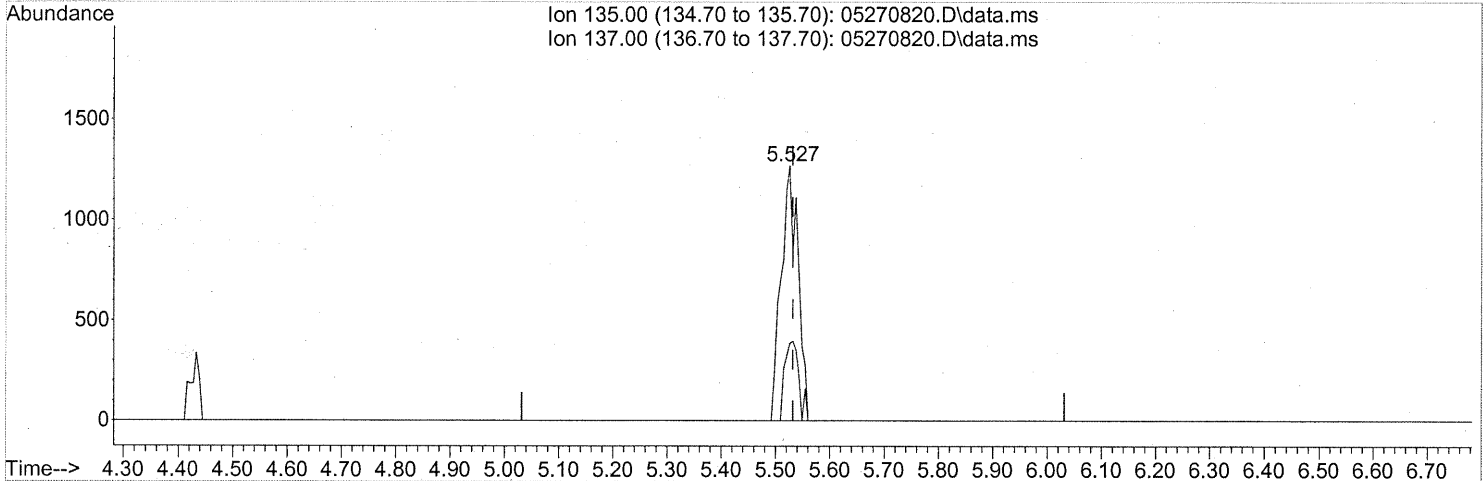
| Ion | Exp% | Act% |
|-------|-------|-------|
| 50.00 | 100 | 100 |
| 52.00 | 33.70 | 23.45 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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Quantitation Report (Qedit)

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(5) Freon 114 (T)

5.527min (-0.006) 0.07ng

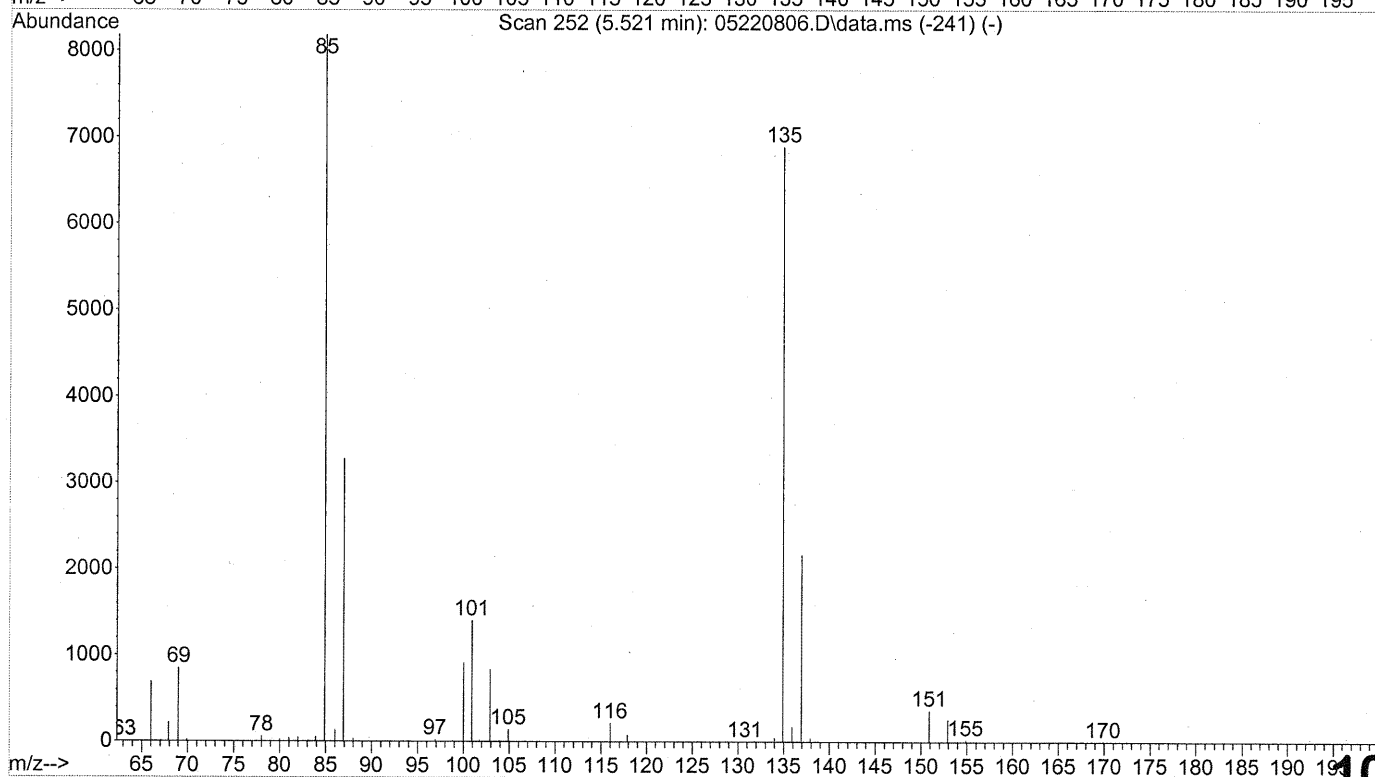
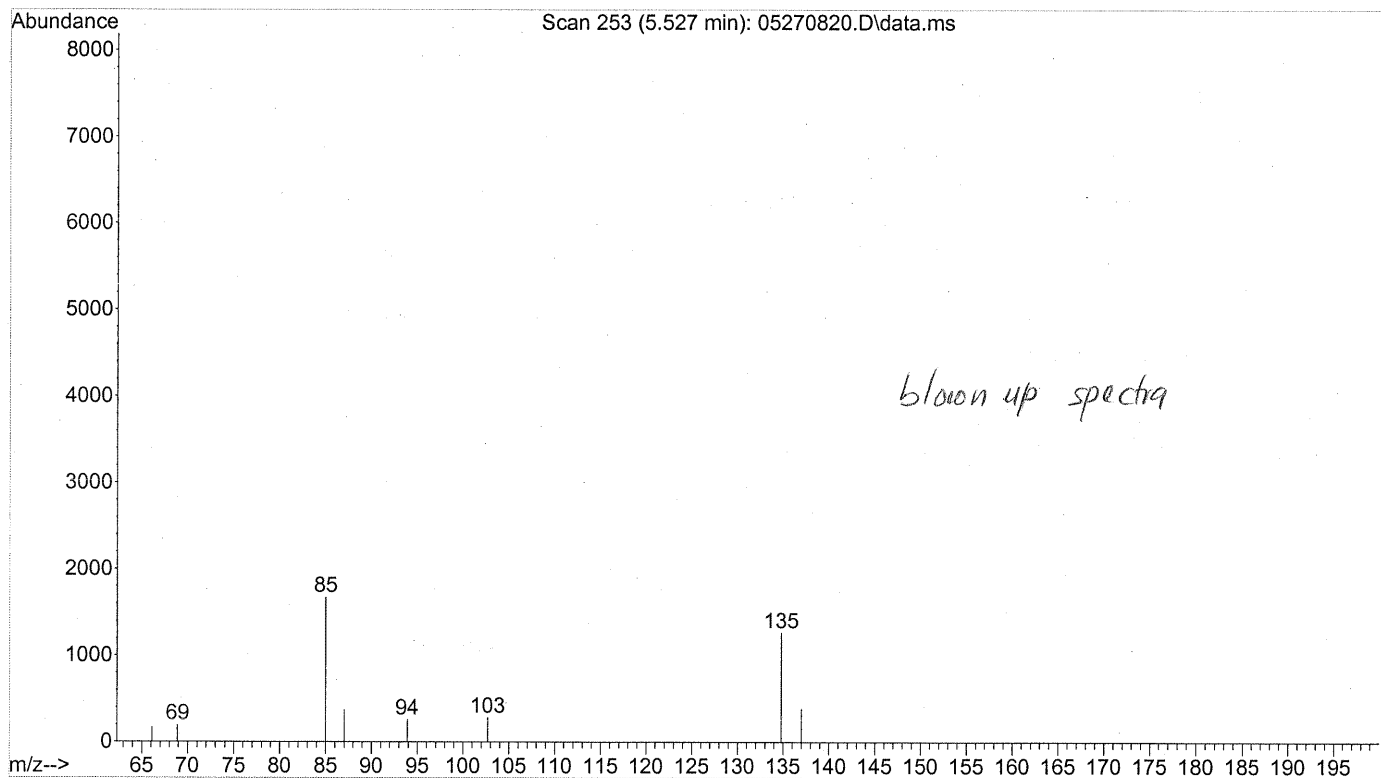
response 2762

| Ion | Exp% | Act% |
|--------|-------|-------|
| 135.00 | 100 | 100 |
| 137.00 | 31.50 | 26.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

1008

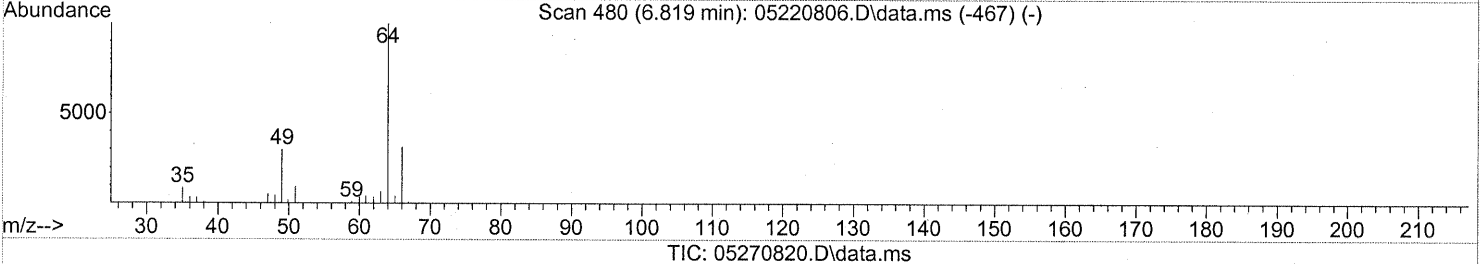
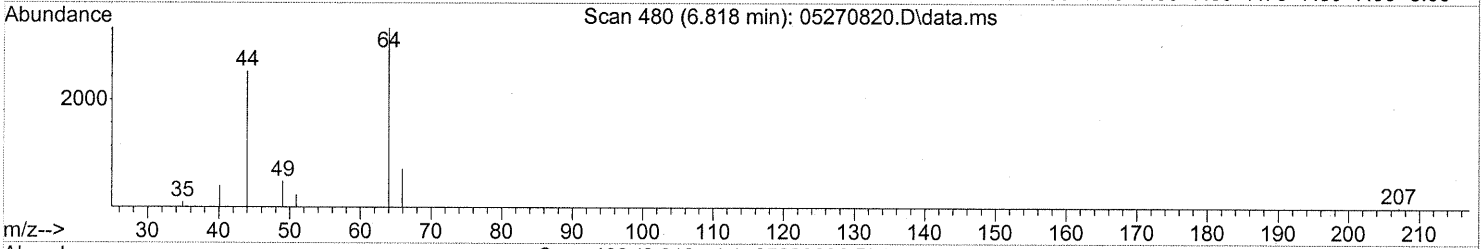
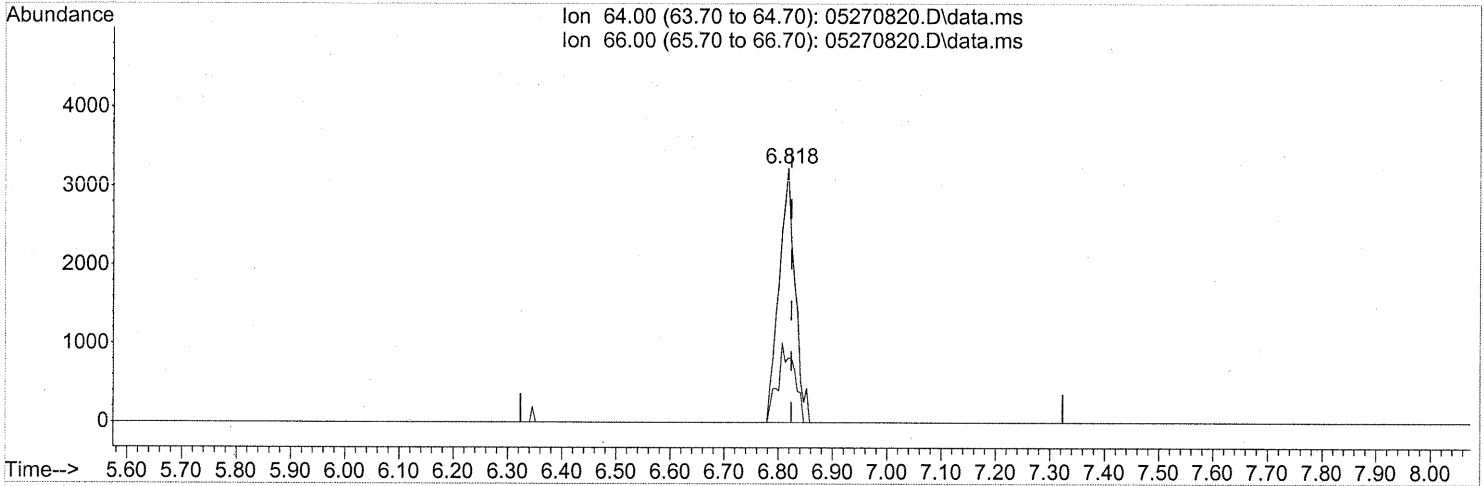
File :J:\MS13\DATA\2008_05\27\05270820.D
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Instrument : GCMS13
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Misc Info : ENSR SG08B-05 (-2.5, 3.5)
Vial Number: 5



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(9) Chloroethane (T)

6.818min (-0.006) 0.26ng

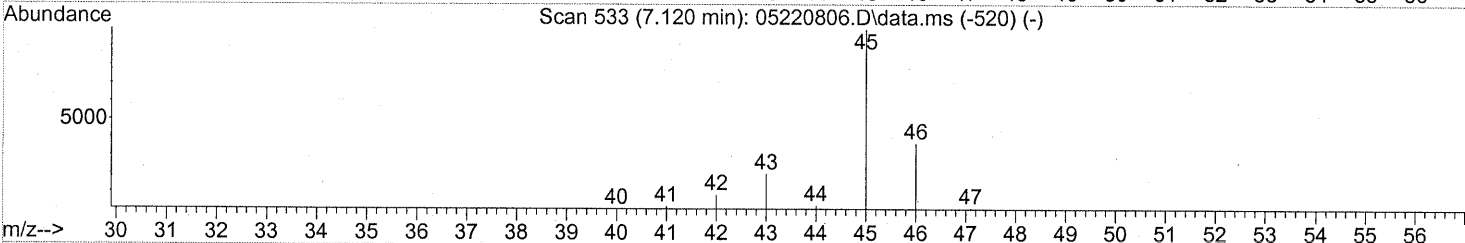
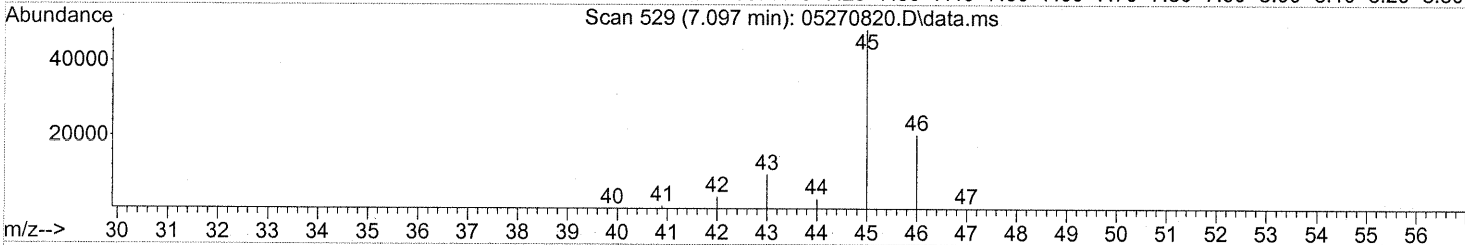
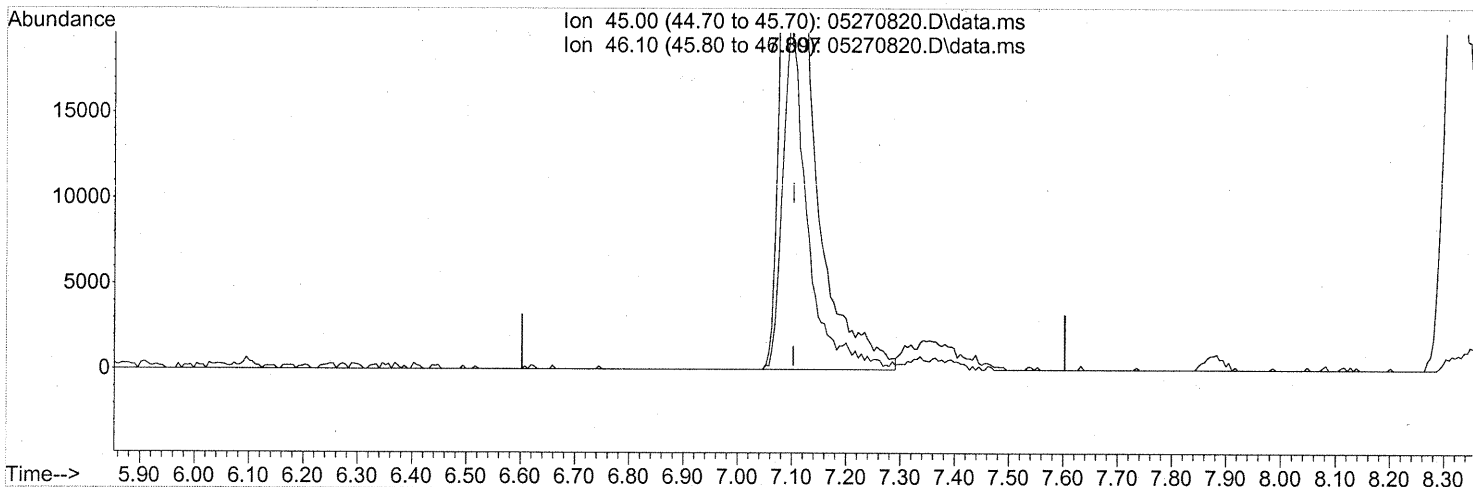
response 6655

| Ion | Exp% | Act% |
|-------|-------|-------|
| 64.00 | 100 | 100 |
| 66.00 | 29.60 | 32.28 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(10) Ethanol (T)

7.097min (-0.006) 5.42ng

response 162039

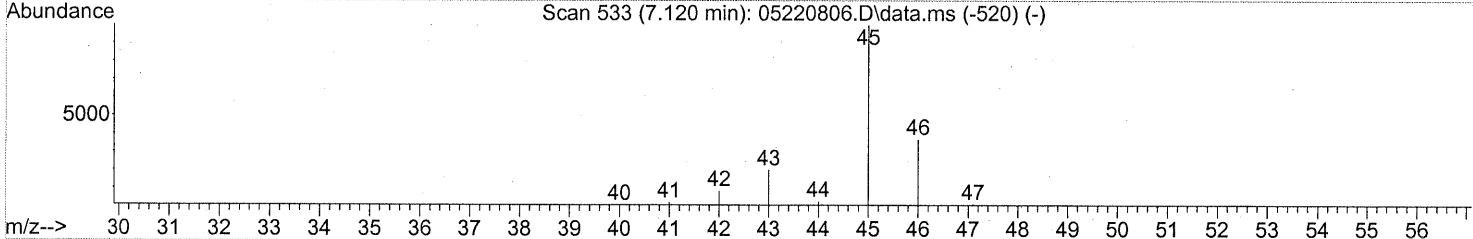
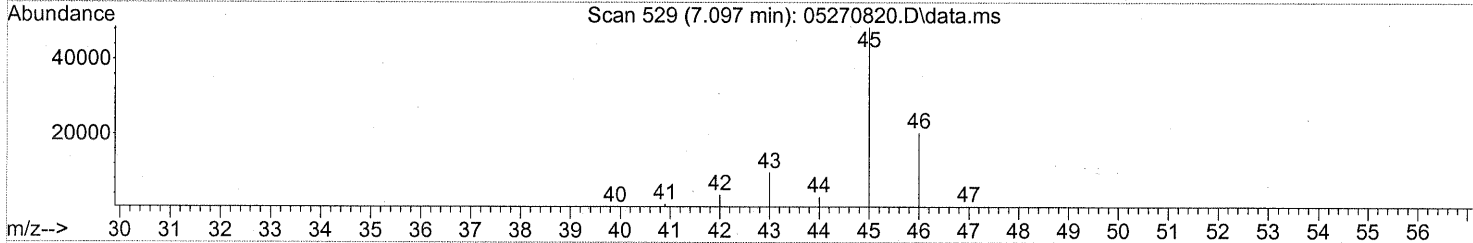
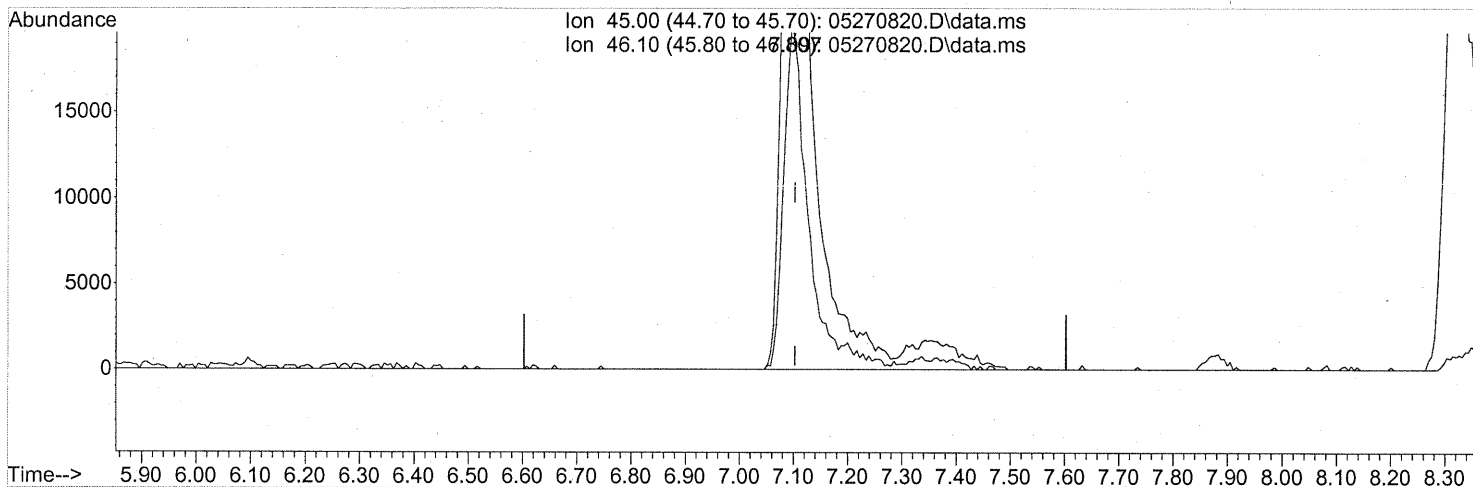
split peaks

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 39.64 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.097min (-0.006) 5.82ng m
 response 173726

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 36.98 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

int. whole peaks

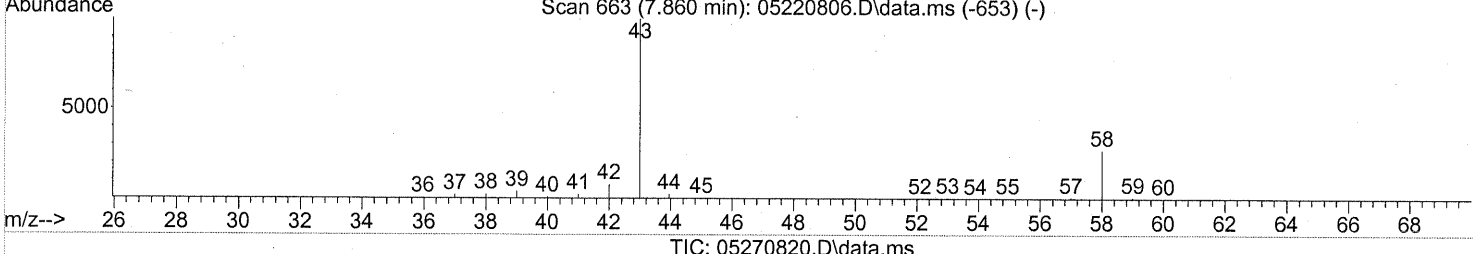
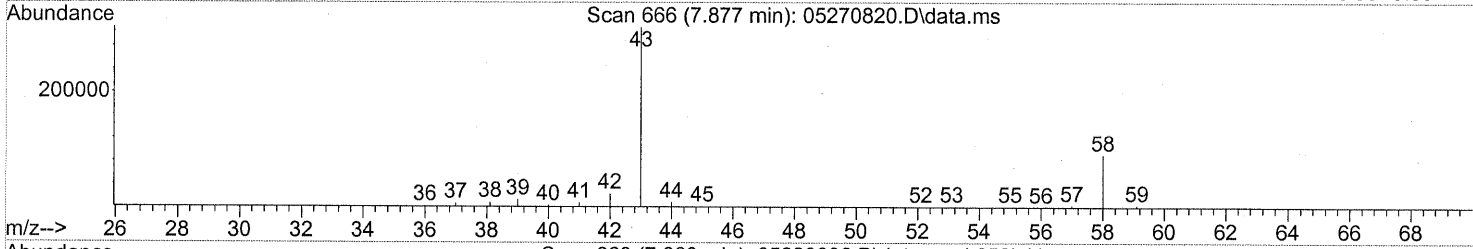
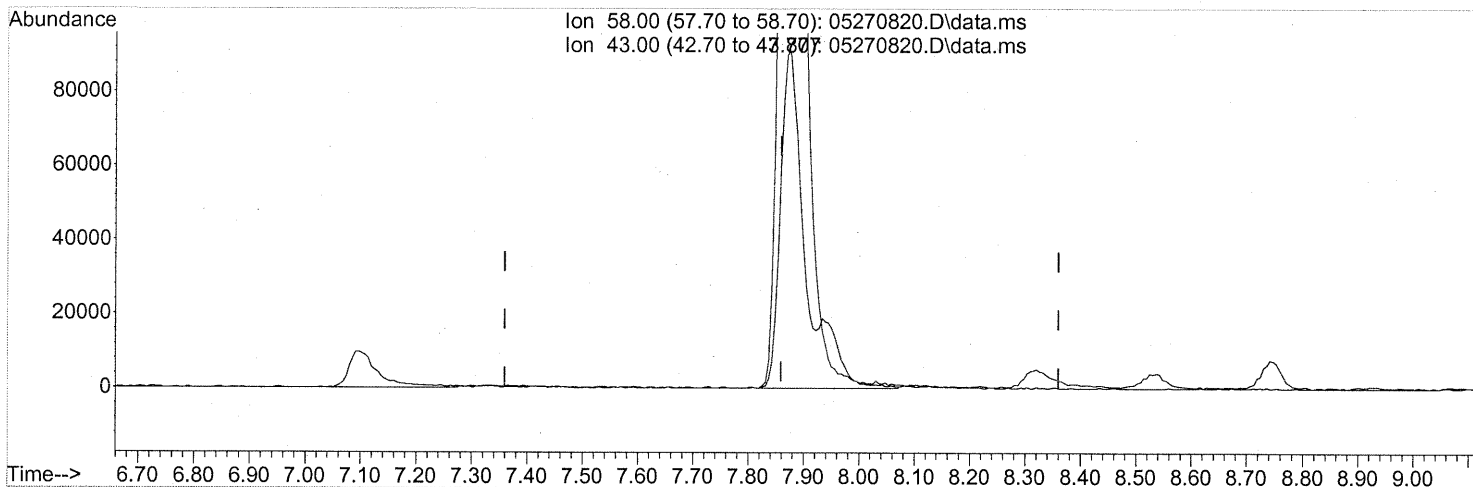
WA 5/31/08

P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)
 7.877min (+0.017) 9.46ng
 response 289470

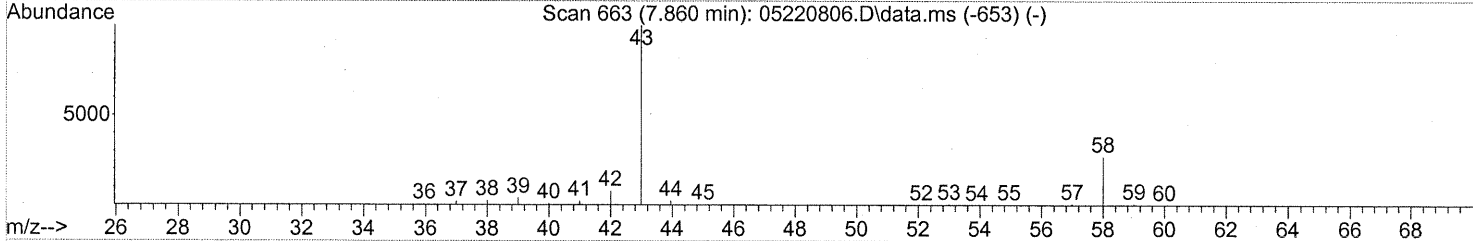
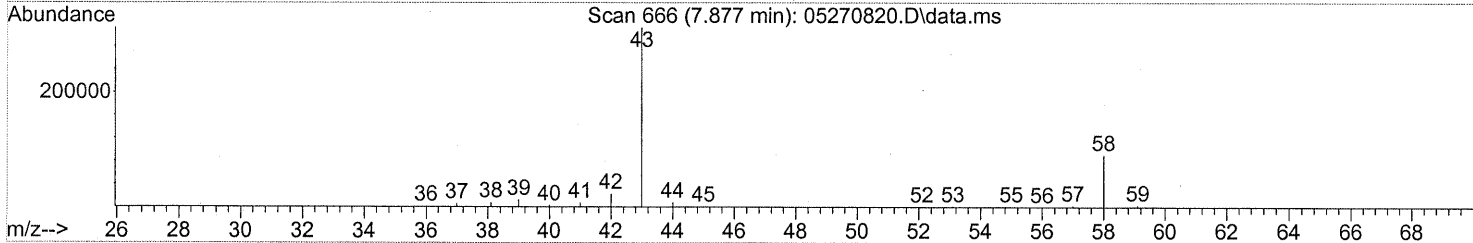
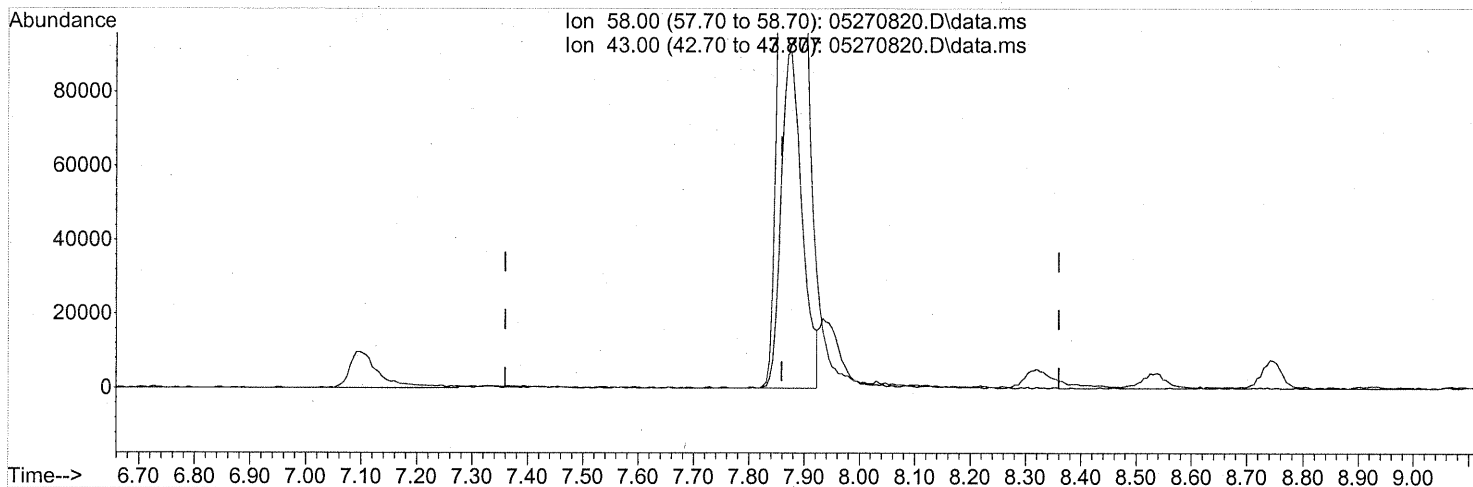
| Ion | Exp% | Act% |
|-------|--------|--------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 294.66 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

13 interf. peak

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(13) Acetone (T)
 7.877min (+0.017) 7.84ng m
 response 239945

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 355.48# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

no shoulder

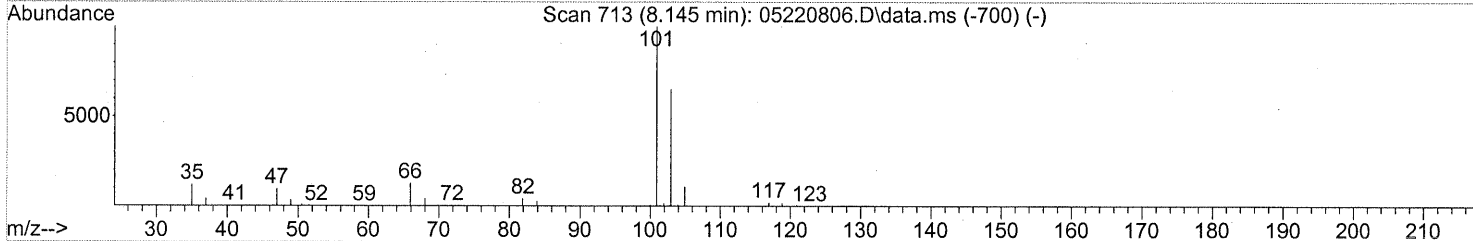
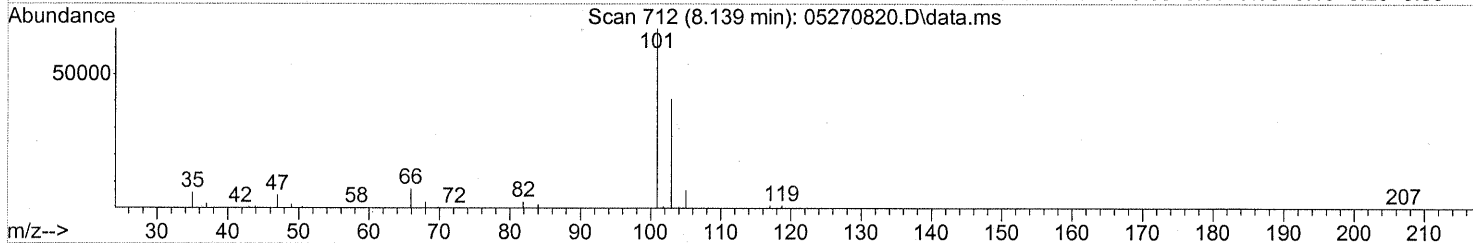
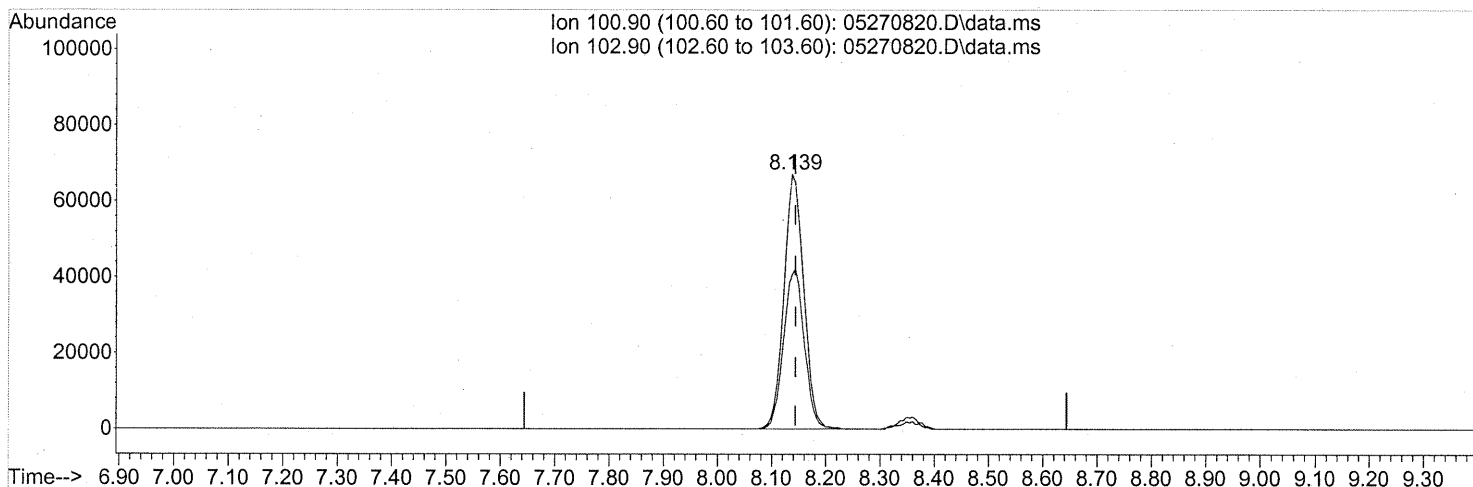
WA 5/31/08

F 05/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 27 May 2008 23:06
Operator : WA
Sample : P0801483-023 (1000ml)
Misc : ENSR SG08B-05 (-2.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(14) Trichlorofluoromethane (T)

8.139min (-0.006) 2.40ng

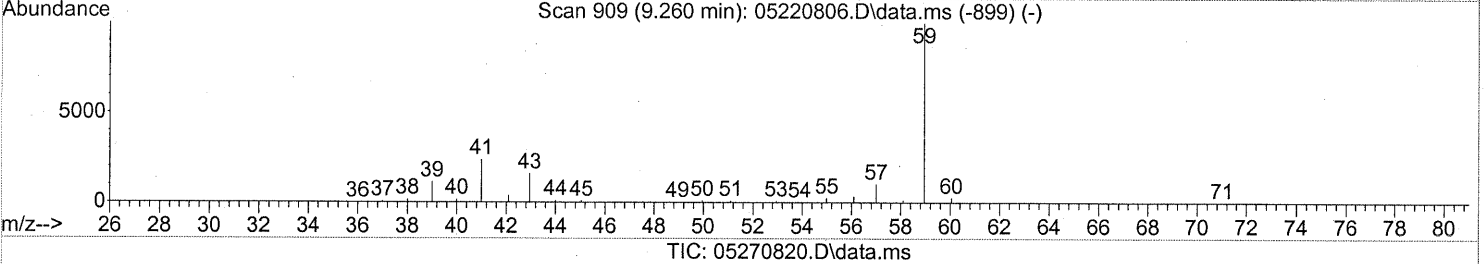
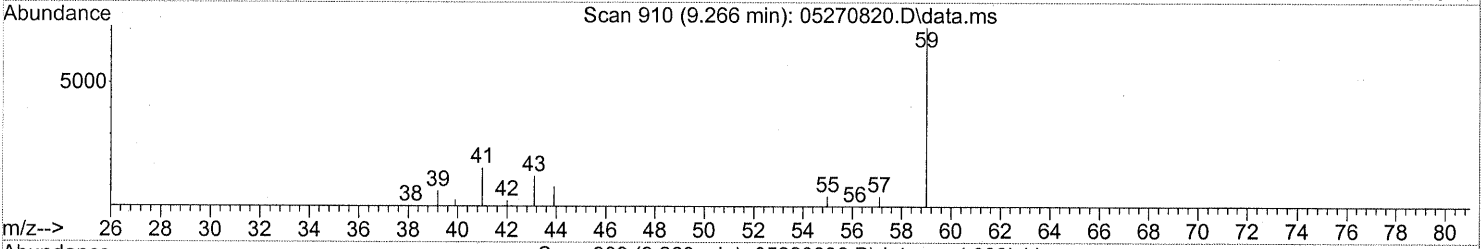
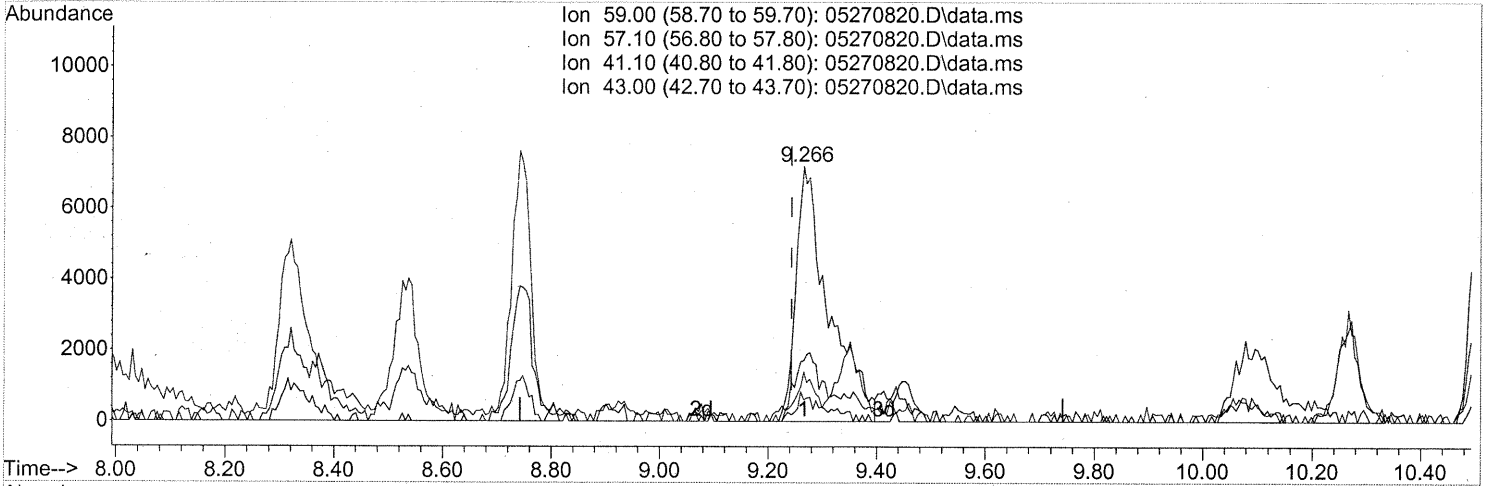
response 170580

| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 65.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 27 May 2008 23:06
Operator : WA
Sample : P0801483-023 (1000ml)
Misc : ENSR SG08B-05 (-2.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)
9.266min (+0.023) 0.36ng
response 30255

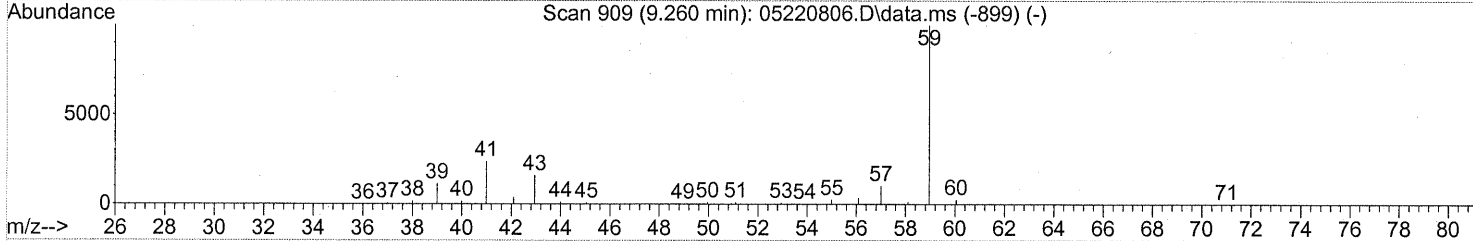
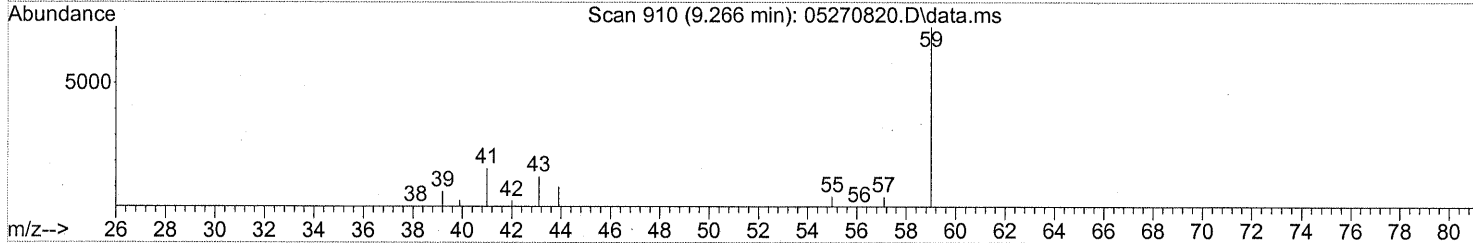
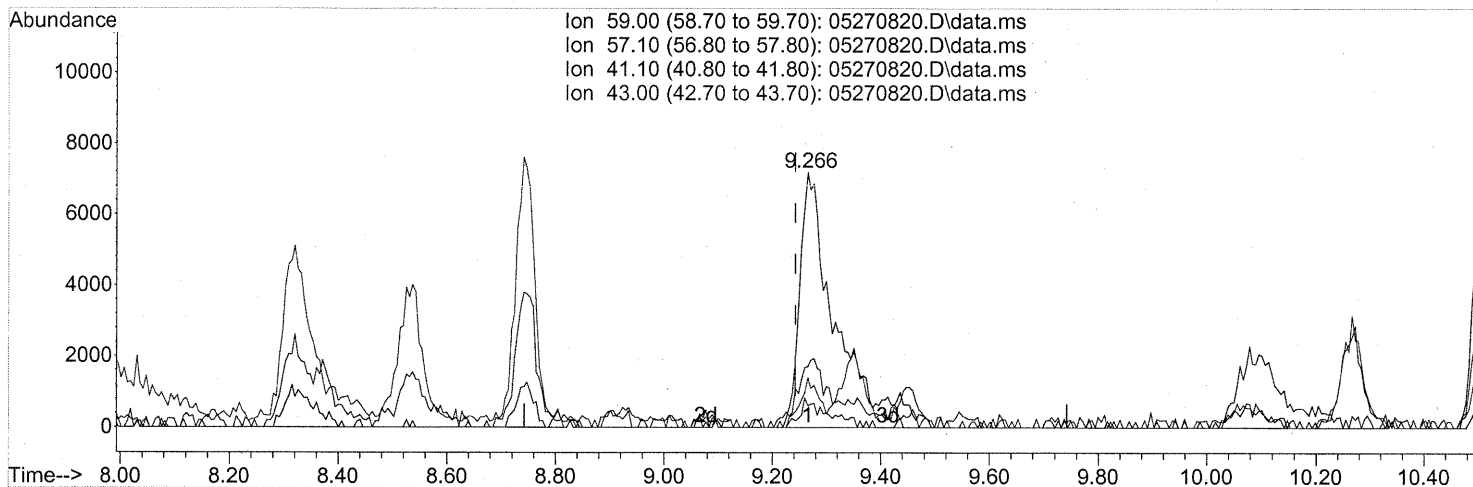
| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 9.45 |
| 41.10 | 20.10 | 32.93 |
| 43.00 | 12.30 | 11.07 |

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (+0.023) 0.40ng m

response 33331

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 8.58 |
| 41.10 | 20.10 | 29.89 |
| 43.00 | 12.30 | 10.05 |

int. whole peaks

5/31/08

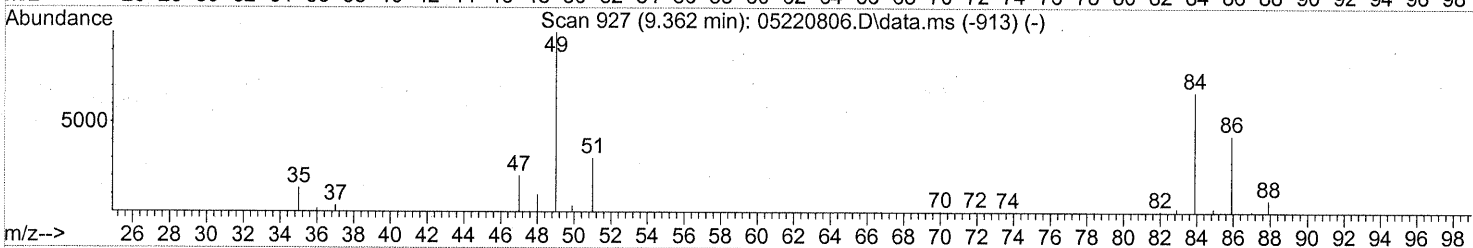
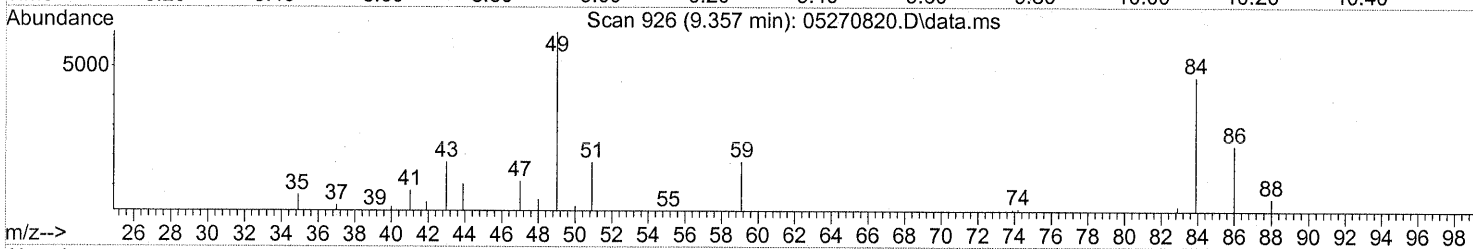
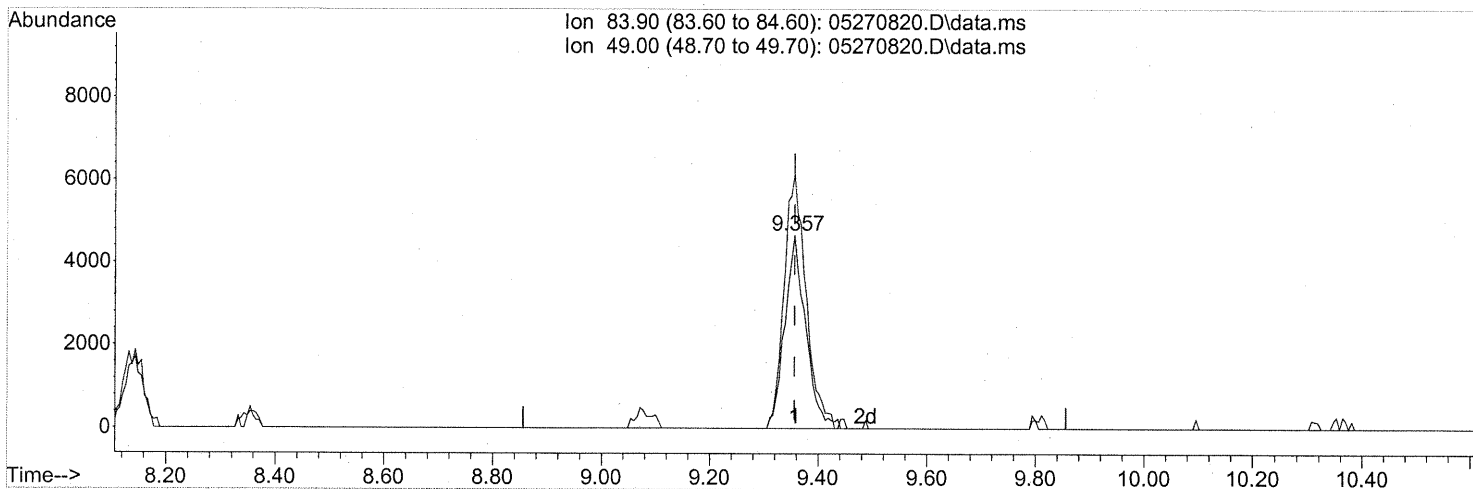
P, C/12/08

1017

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(19) Methylene Chloride (T)

9.357min (-0.000) 0.37ng

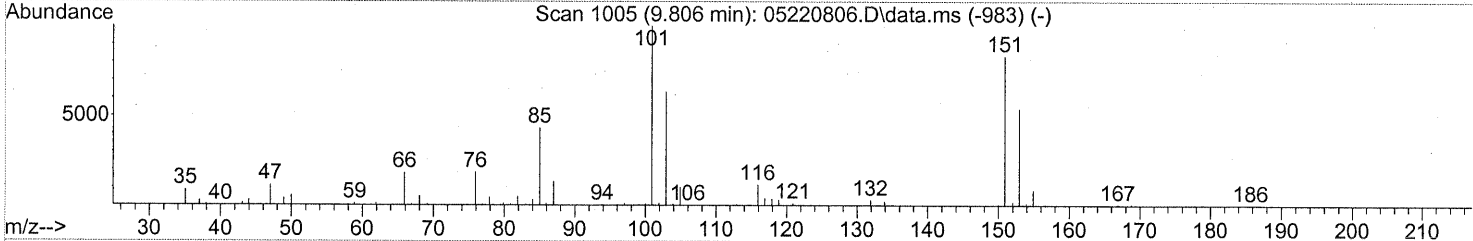
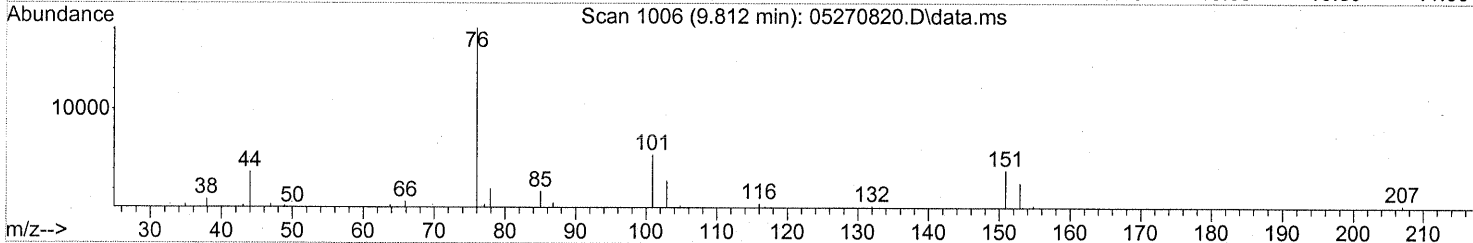
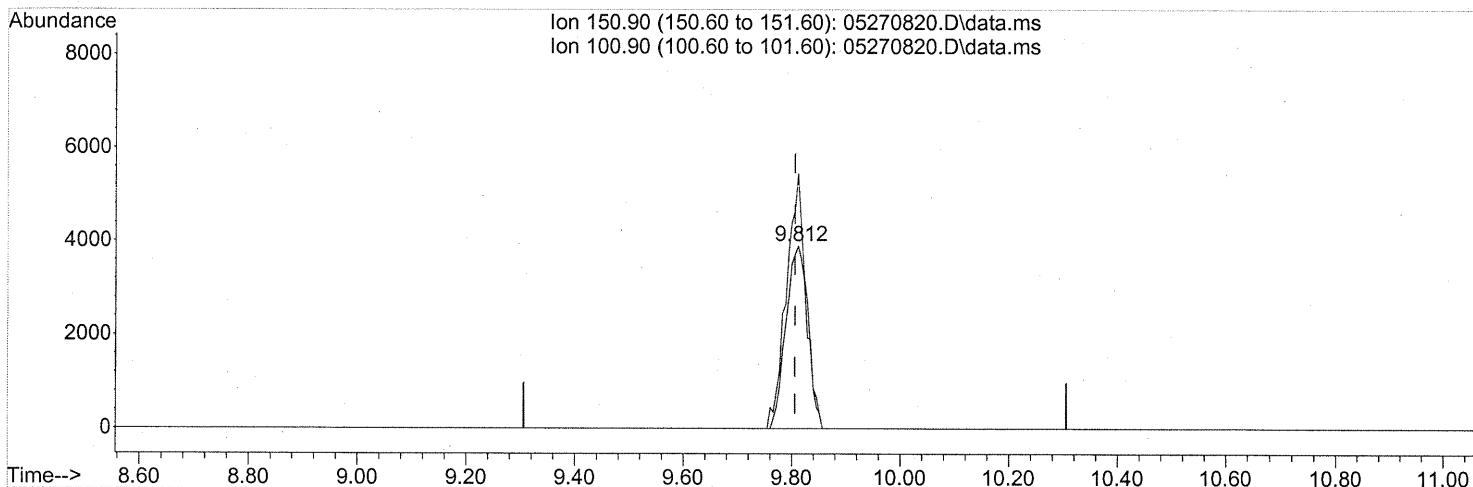
response 12526

| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 138.38# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.005) 0.33ng

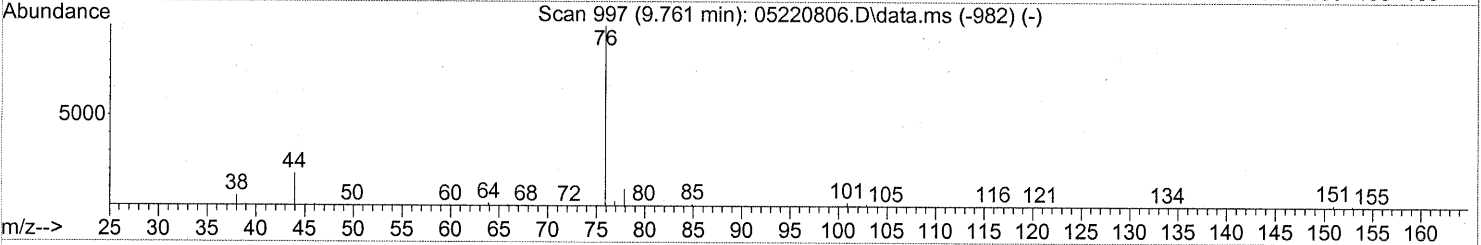
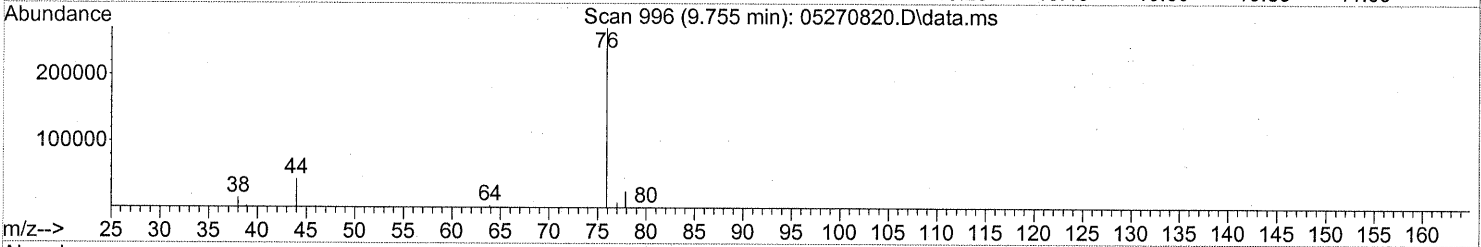
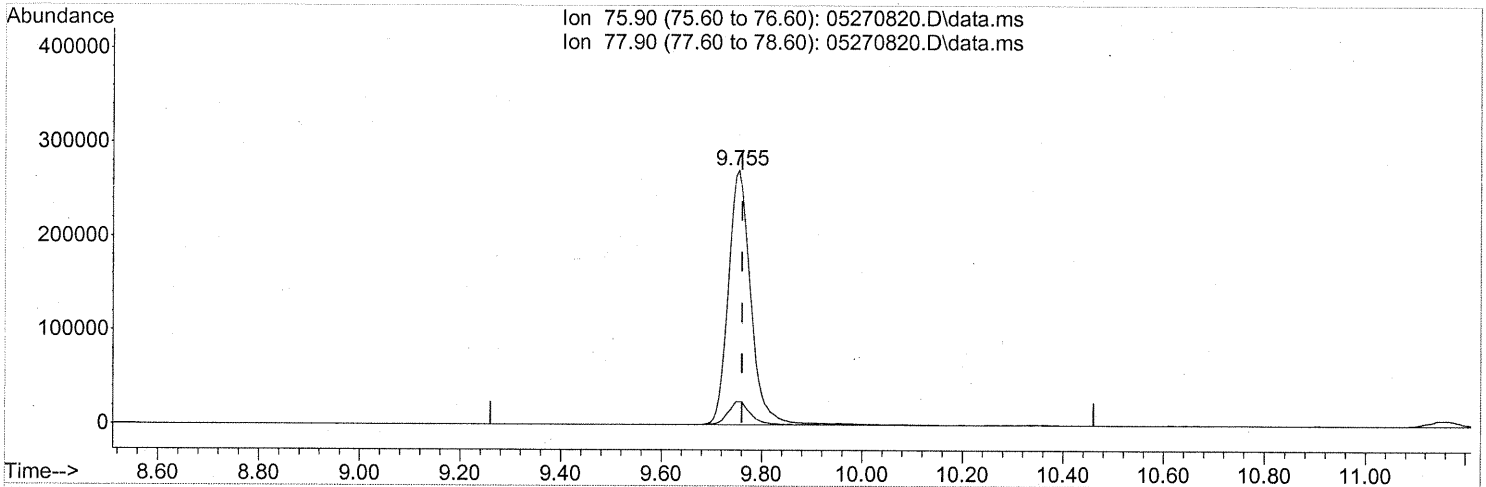
response 10762

| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 126.95 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 27 May 2008 23:06
Operator : WA
Sample : P0801483-023 (1000ml)
Misc : ENSR SG08B-05 (-2.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 6.46ng

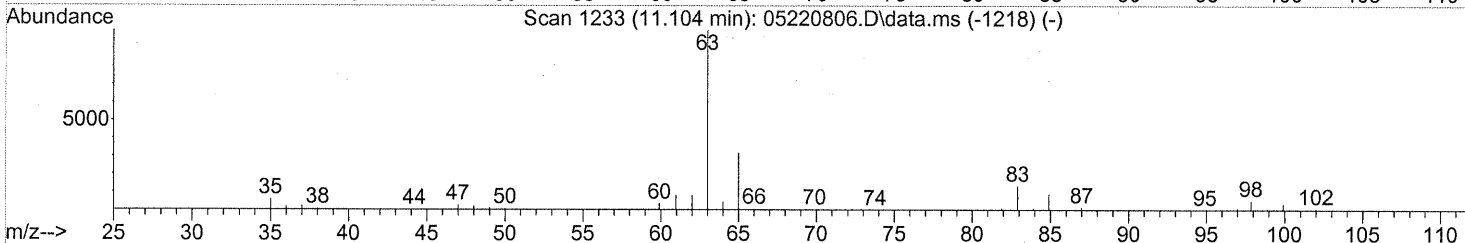
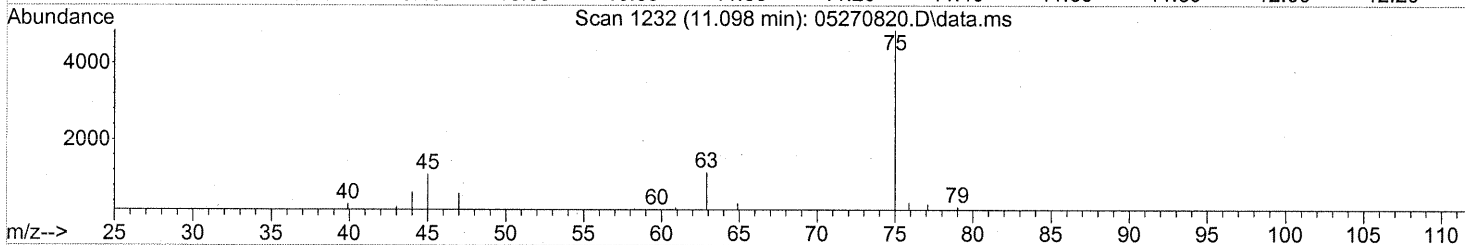
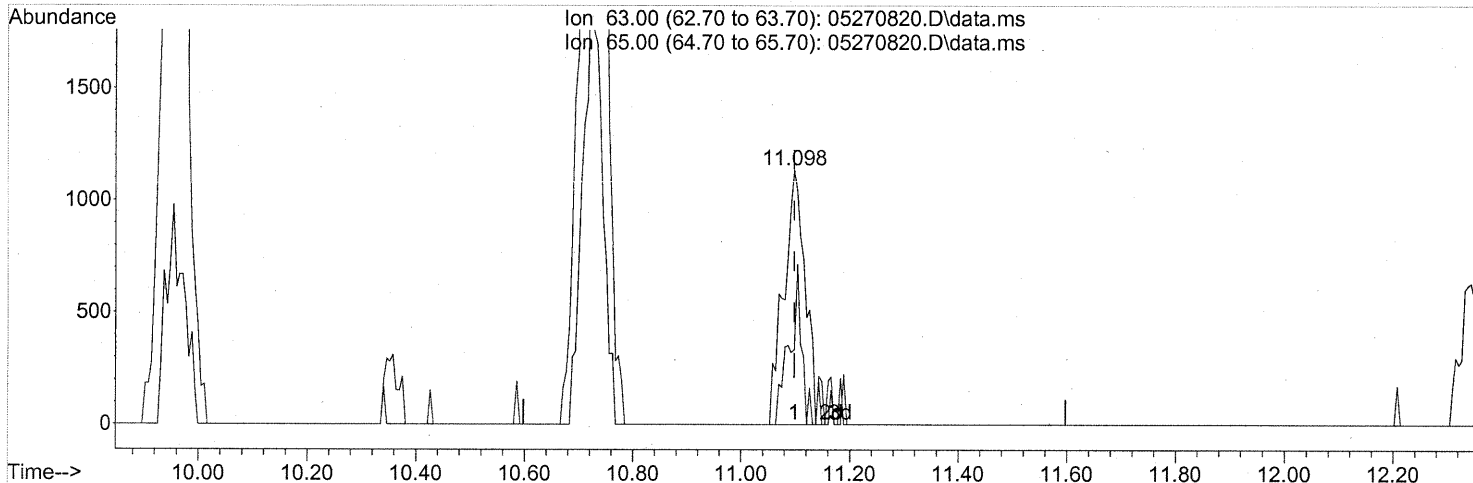
response 838543

| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 8.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.098min (-0.000) 0.05ng

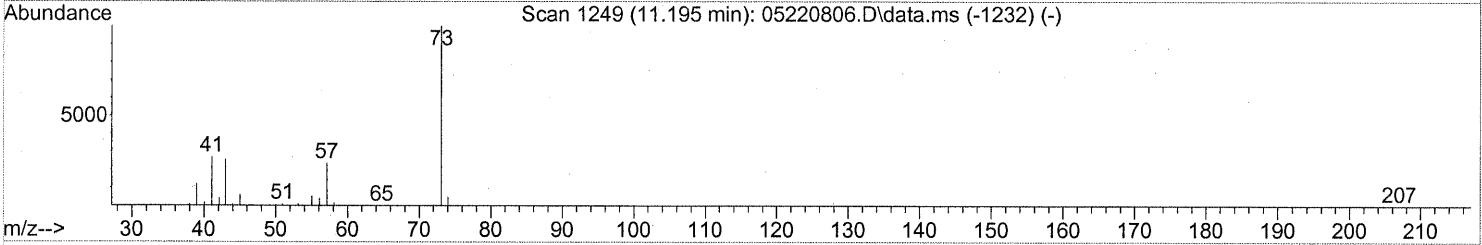
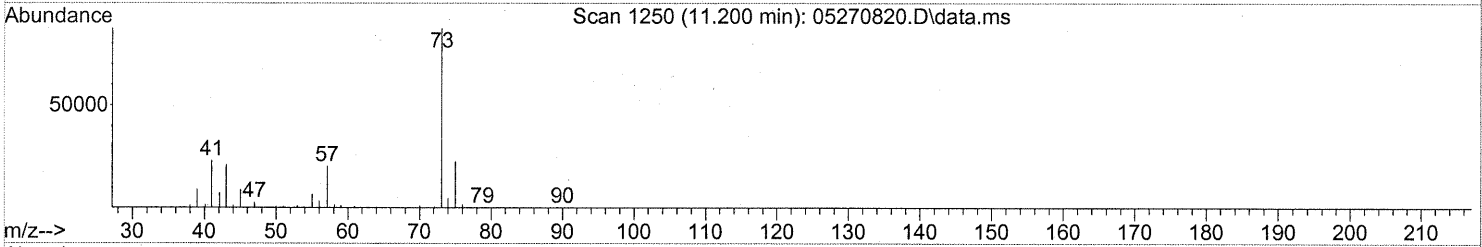
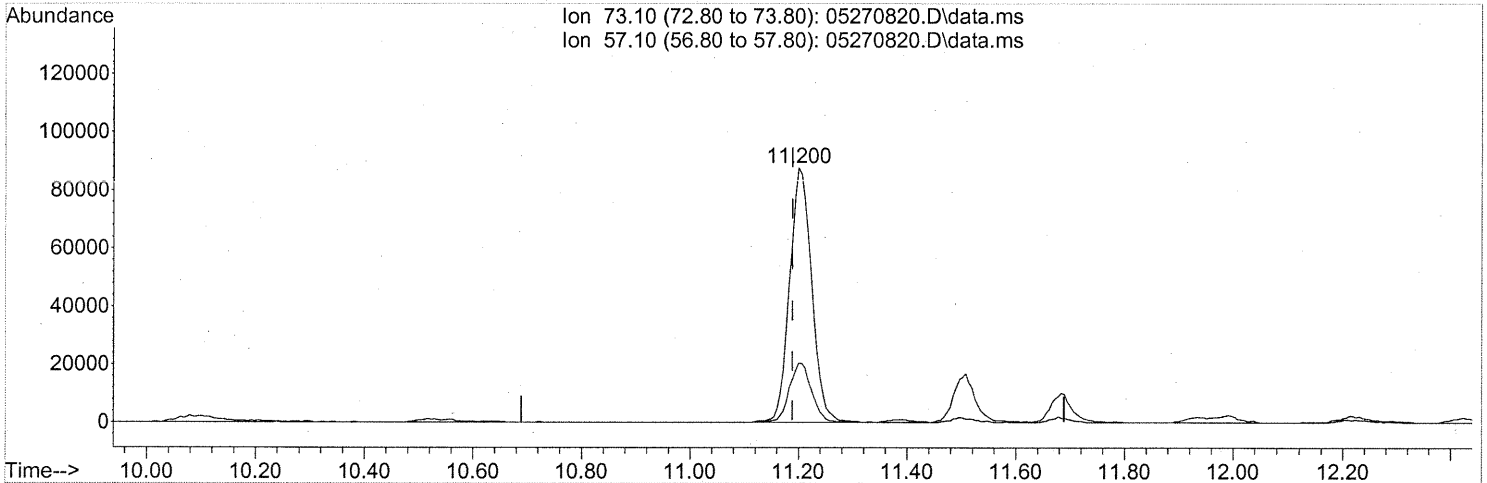
response 3154

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 65.00 | 29.10 | 34.94 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.200min (+0.011) 2.51ng

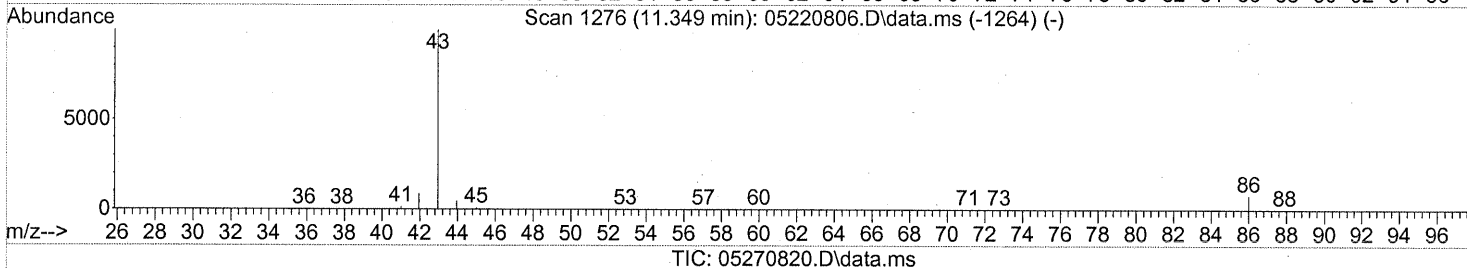
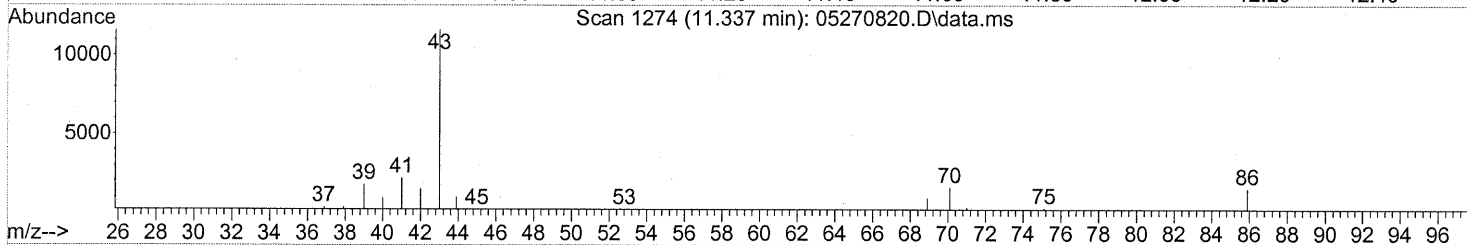
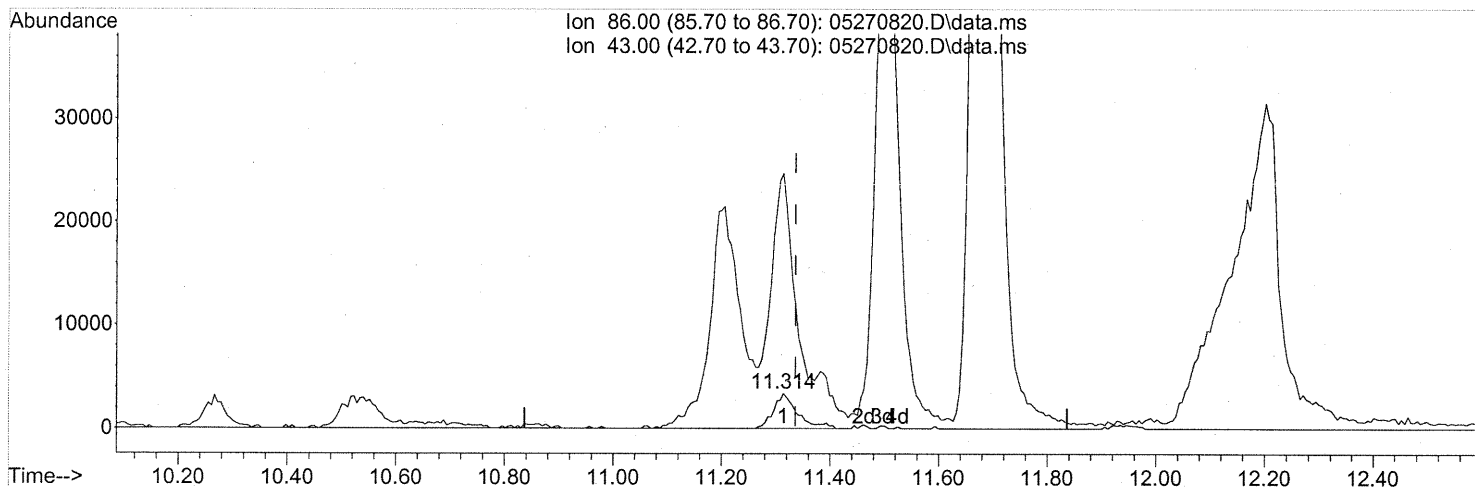
response 248587

| Ion | Exp% | Act% |
|-------|-------|-------|
| 73.10 | 100 | 100 |
| 57.10 | 31.40 | 23.31 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.314min (-0.023) 1.80ng
 response 10148

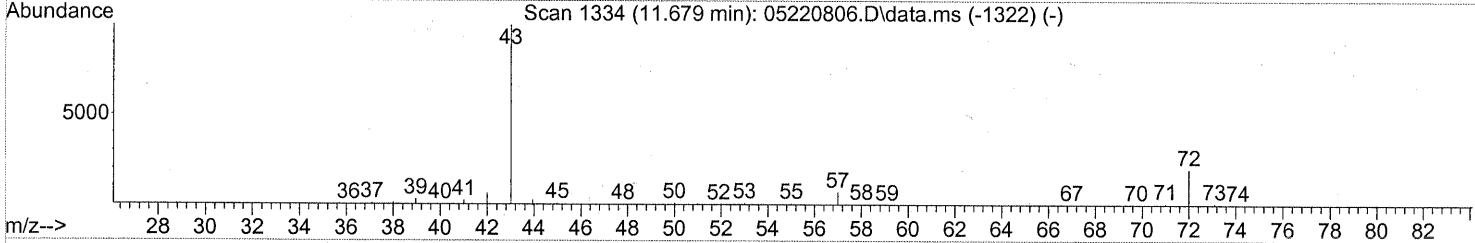
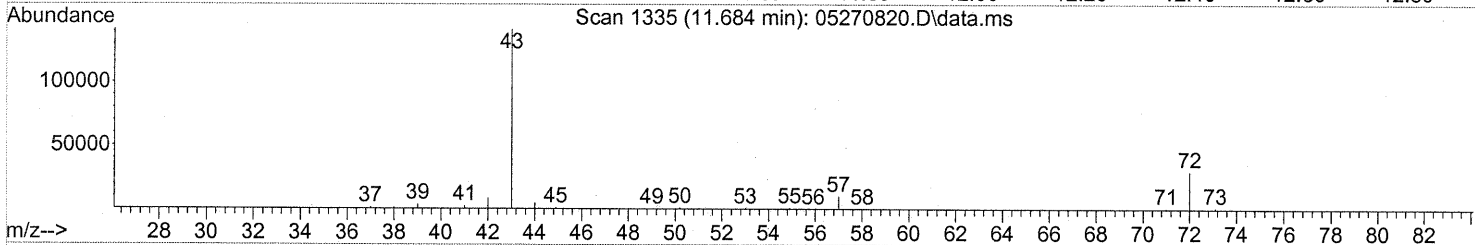
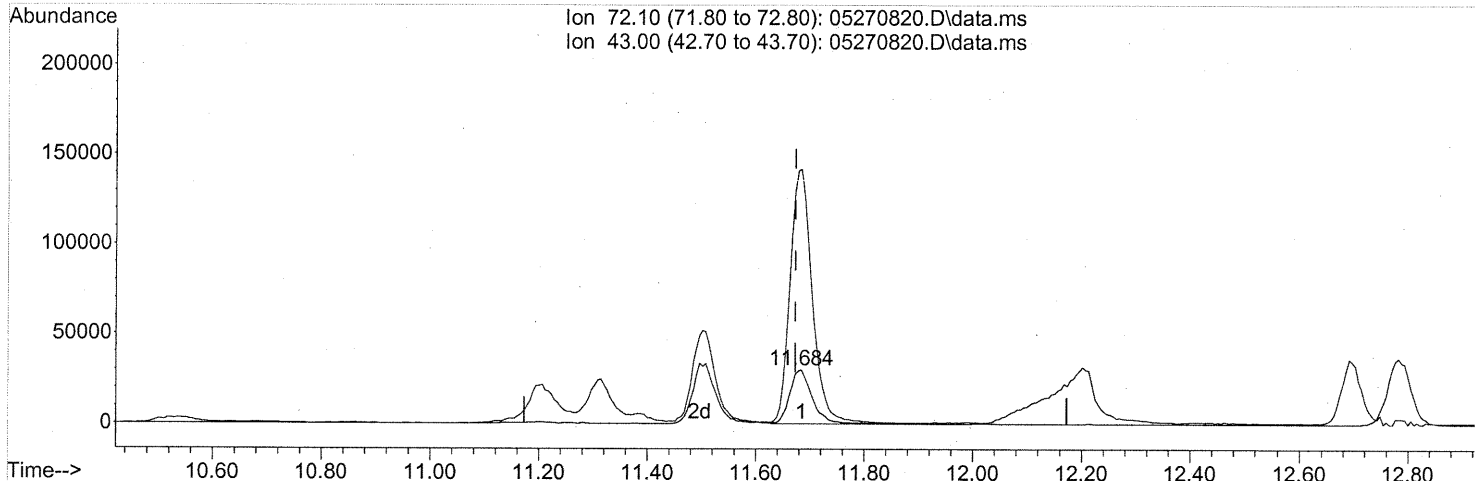
| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 864.82# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1023

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(27) 2-Butanone (T)

11.684min (+0.011) 3.85ng

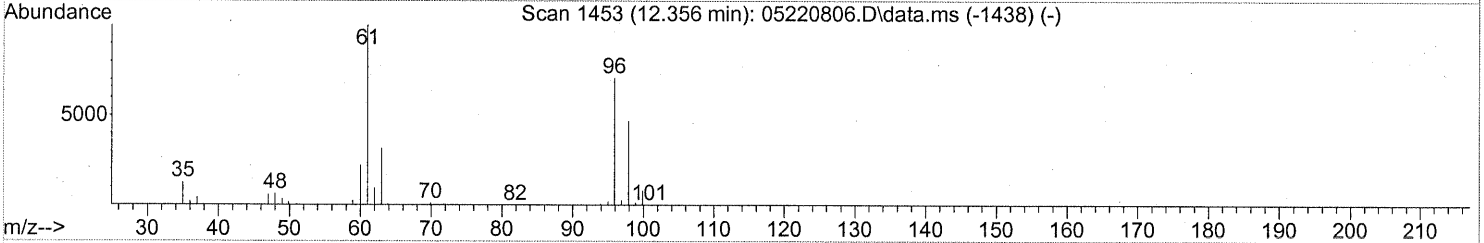
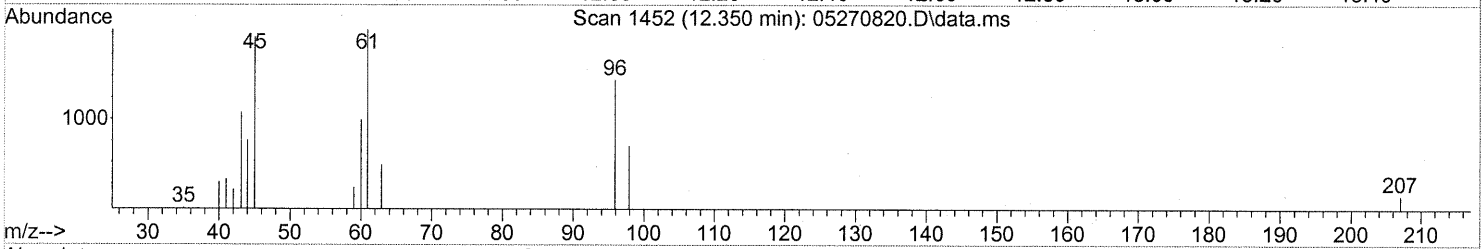
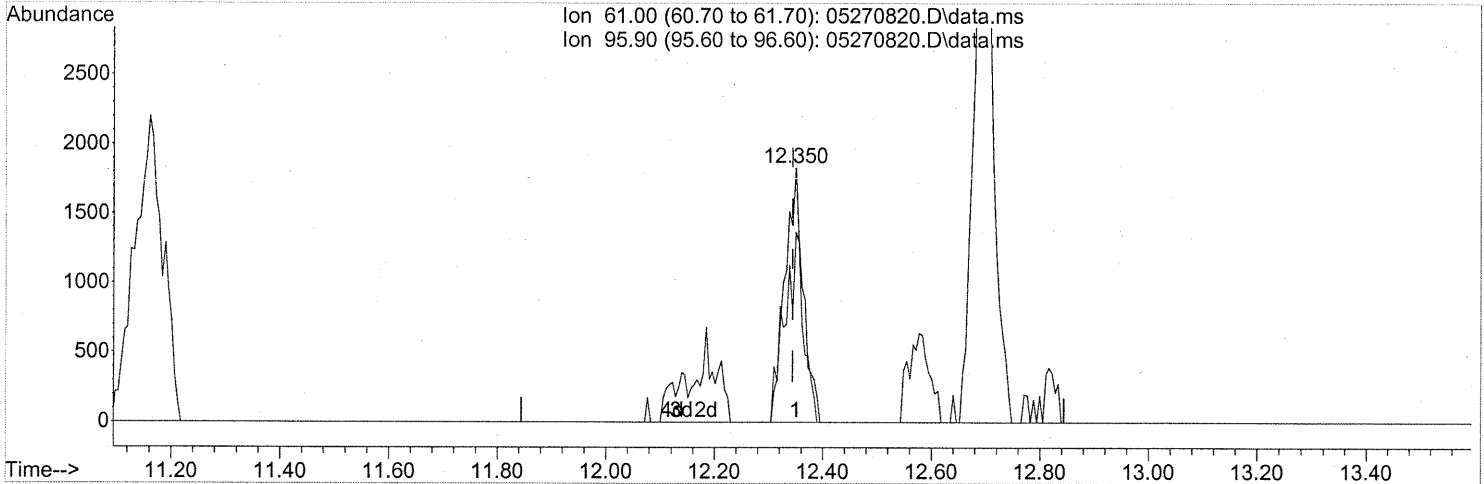
response 85896

| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 464.03# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(28) cis-1,2-Dichloroethene (T)

12.350min (+0.005) 0.09ng

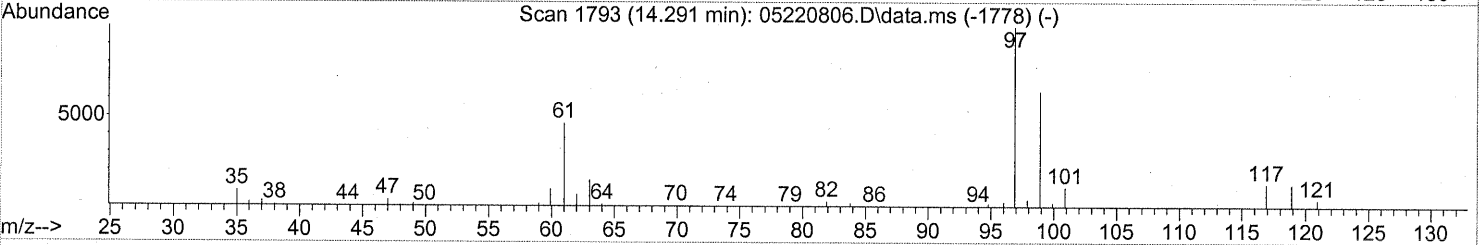
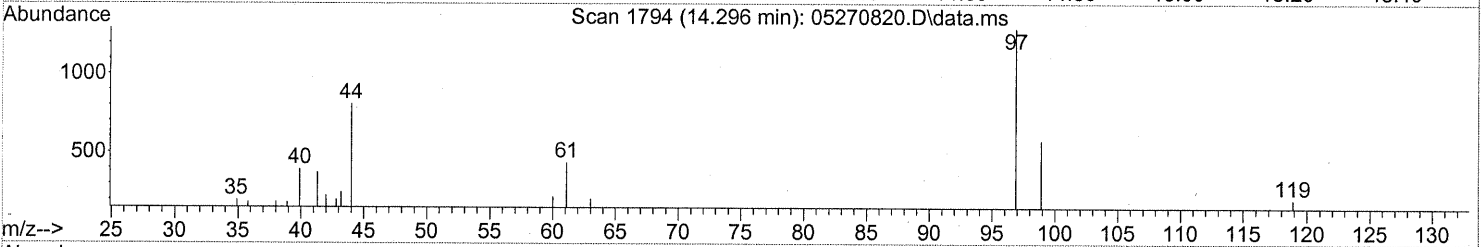
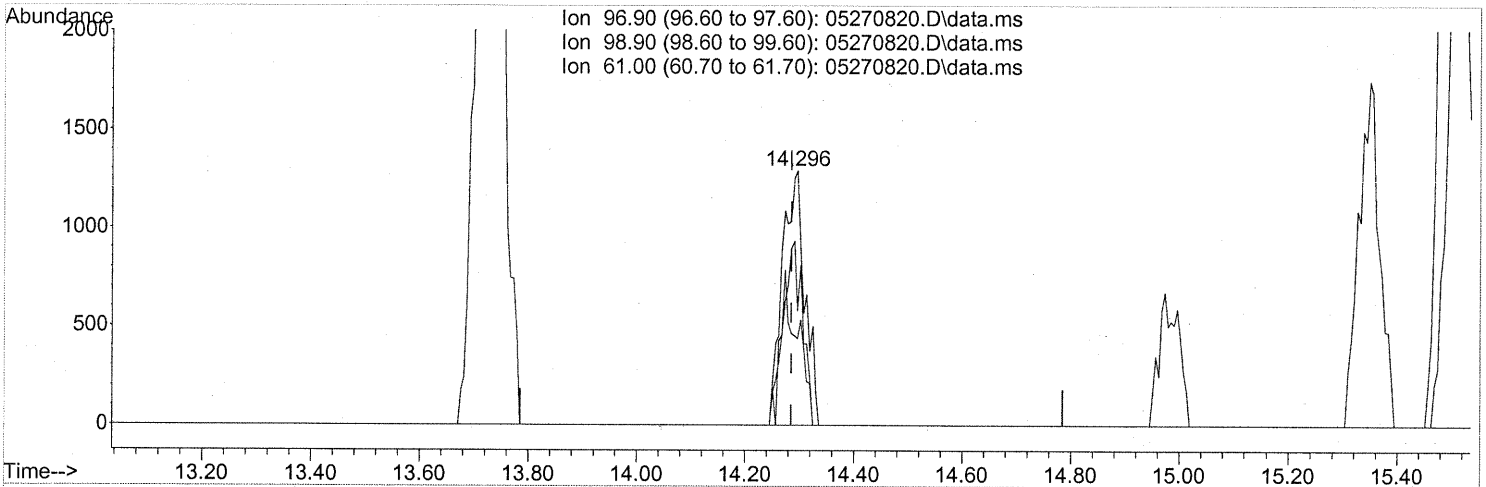
response 4257

| Ion | Exp% | Act% |
|-------|-------|-------|
| 61.00 | 100 | 100 |
| 95.90 | 59.60 | 76.91 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.296min (+0.011) 0.07ng

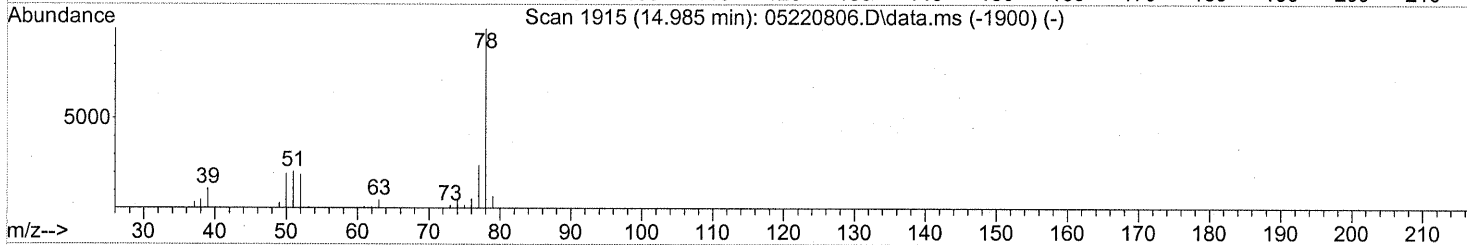
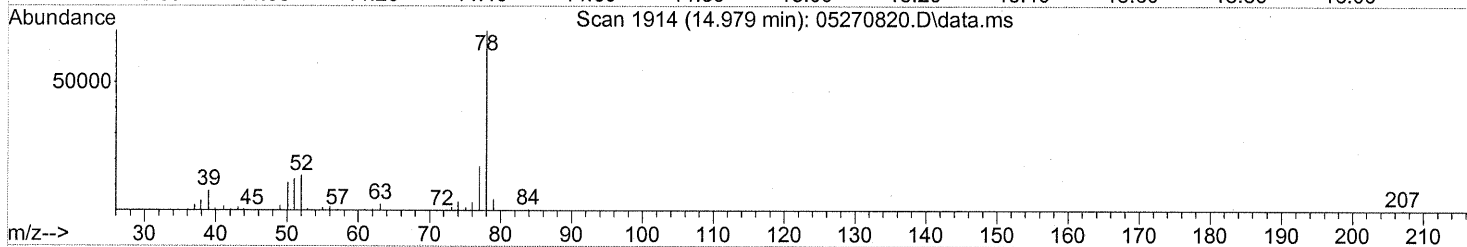
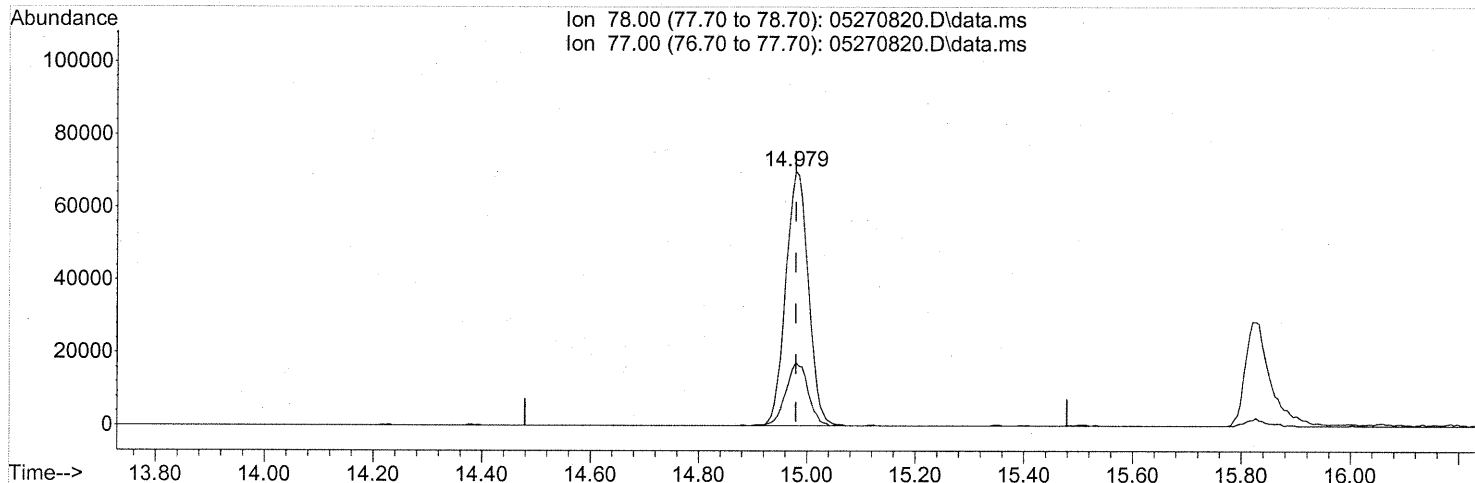
response 3695

| Ion | Exp% | Act% |
|-------|-------|-------|
| 96.90 | 100 | 100 |
| 98.90 | 63.40 | 61.52 |
| 61.00 | 50.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 27 May 2008 23:06
Operator : WA
Sample : P0801483-023 (1000ml)
Misc : ENSR SG08B-05 (-2.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

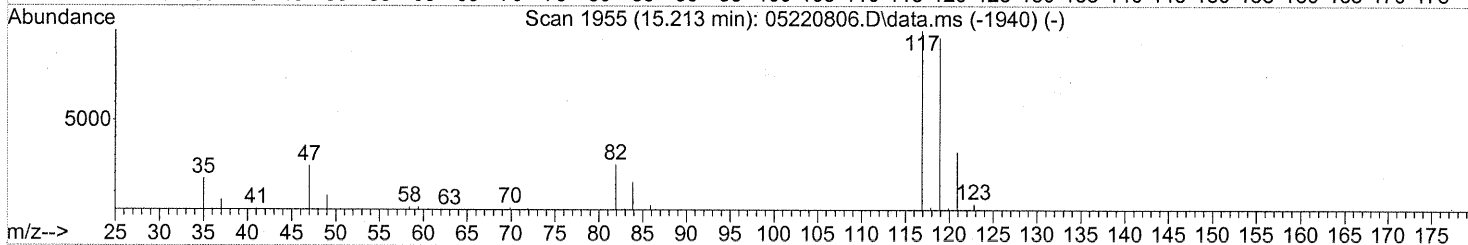
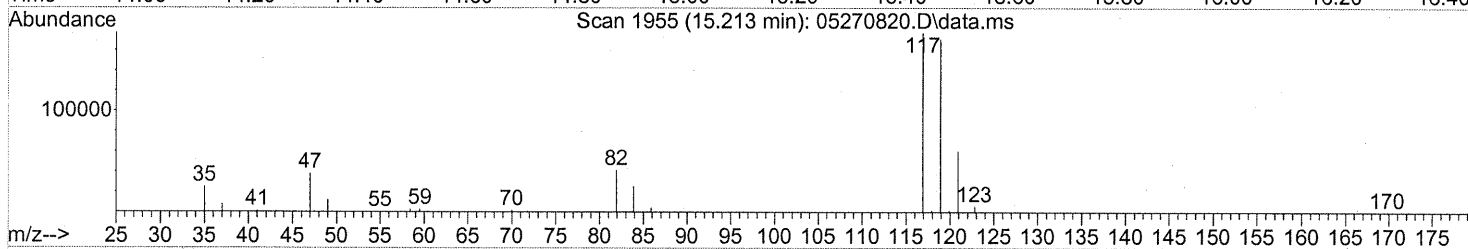
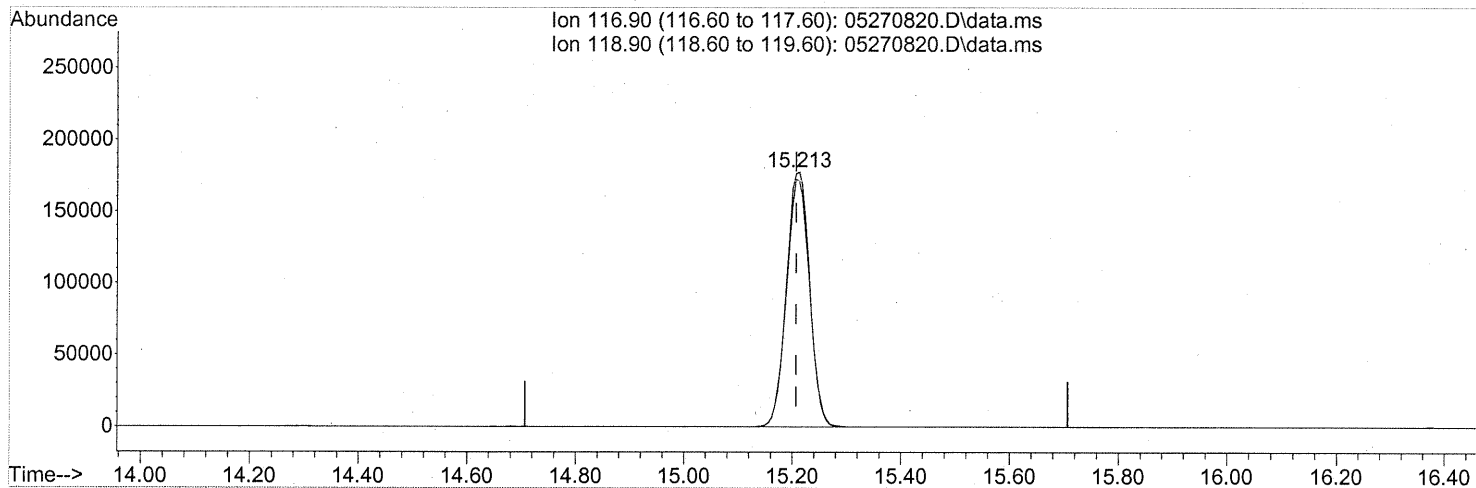
(41) Benzene (T)
14.979min (-0.000) 1.61ng
response 201610

| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 24.33 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.005) 10.89ng

response 523580

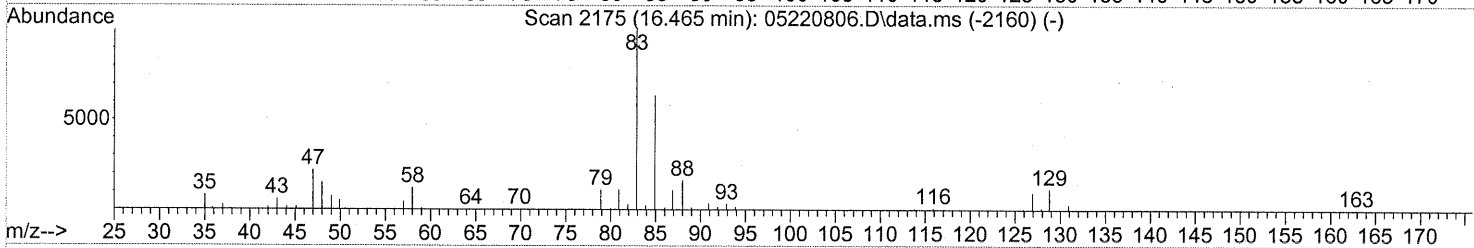
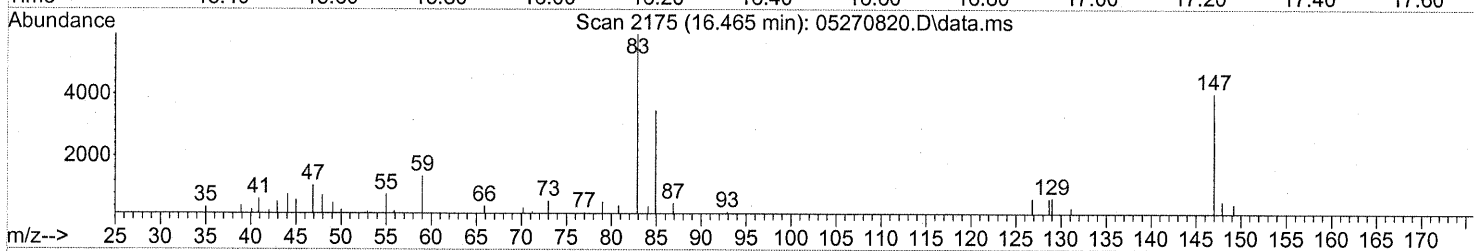
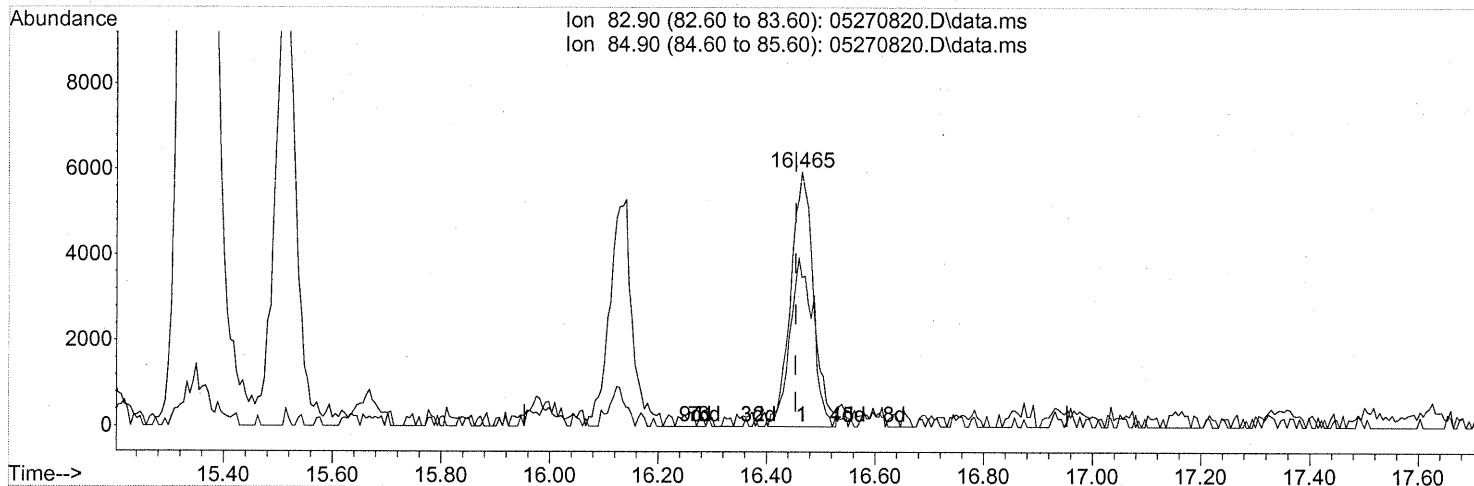
| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 95.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1028

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.41ng

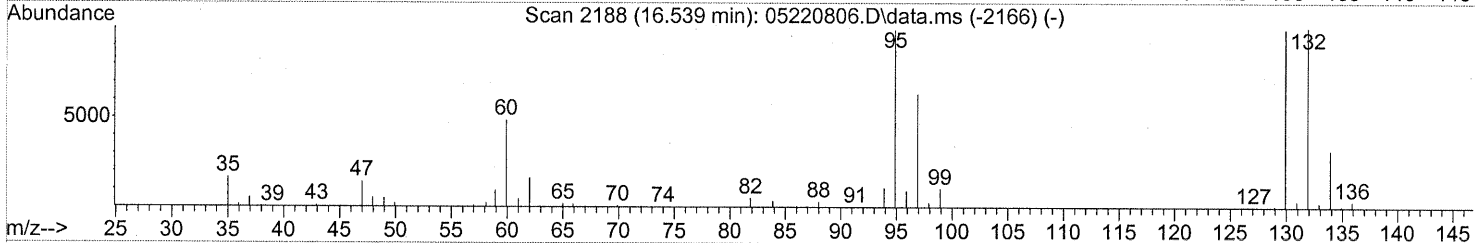
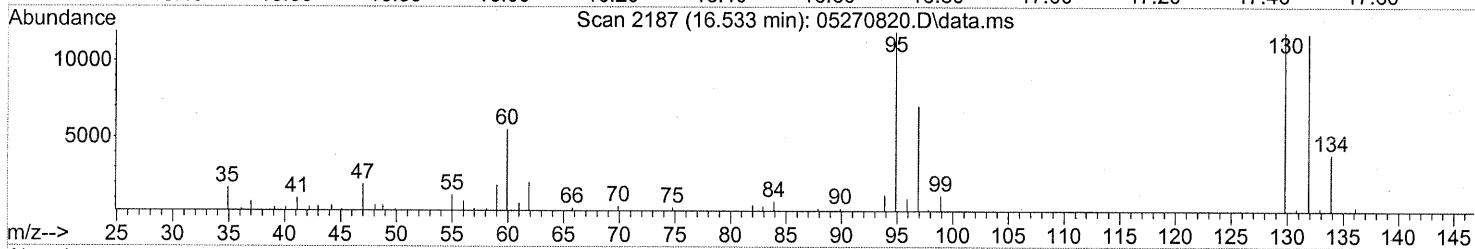
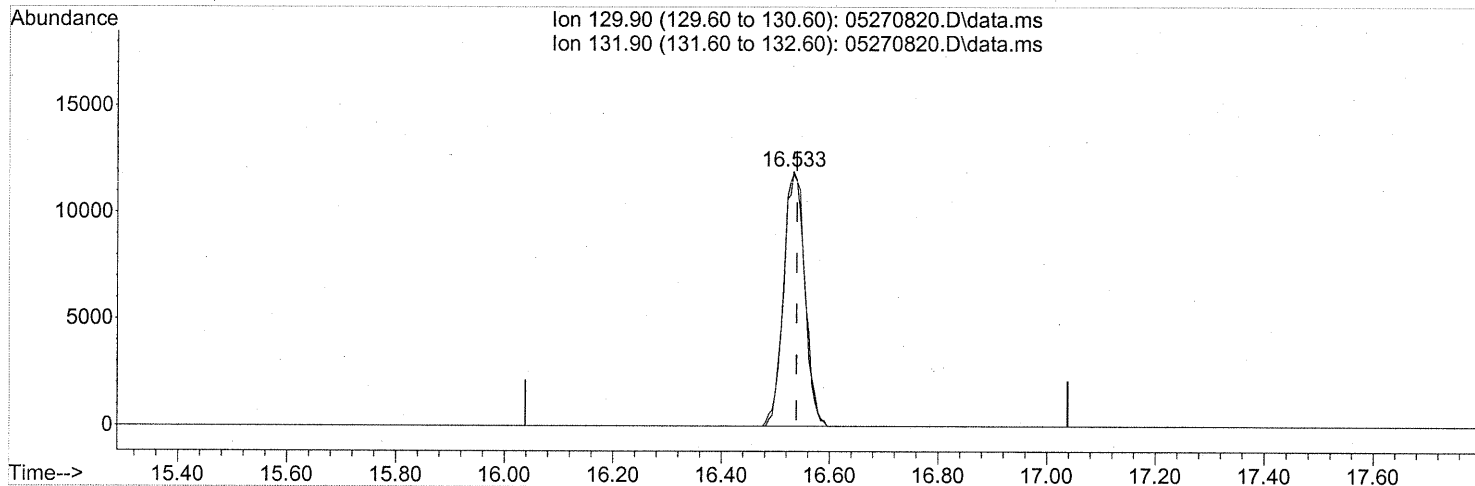
response 17438

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 66.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS. TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 0.84ng

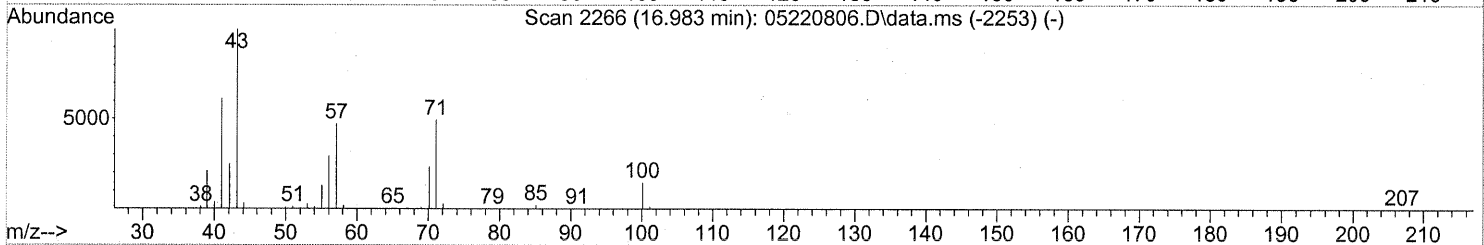
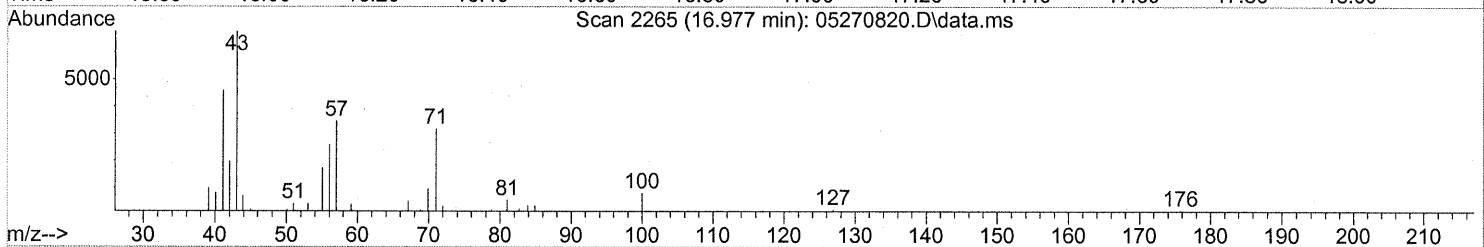
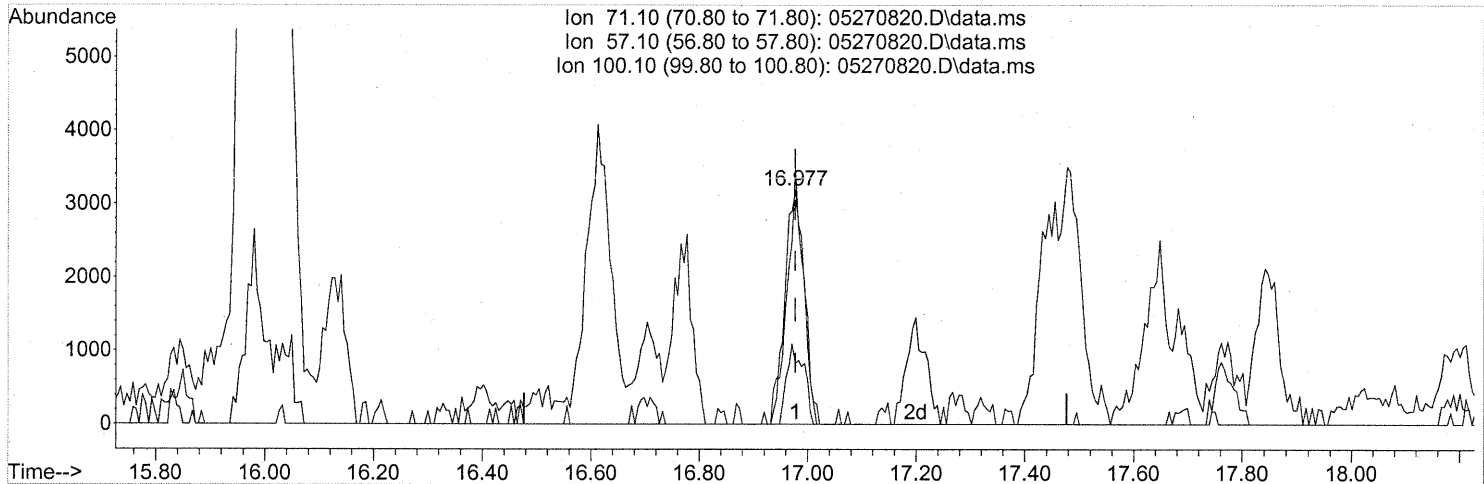
response 32136

| Ion | Exp% | Act% |
|--------|--------|--------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 101.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

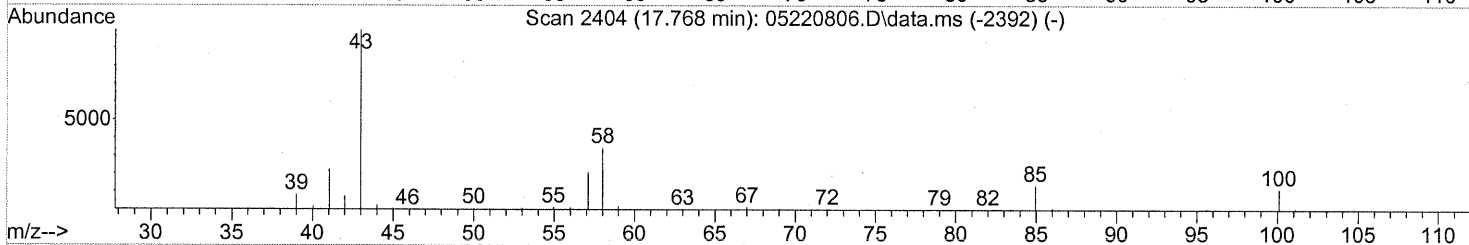
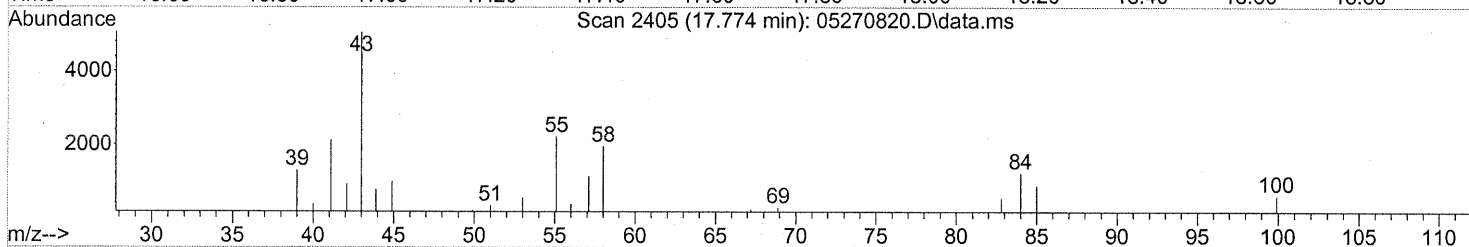
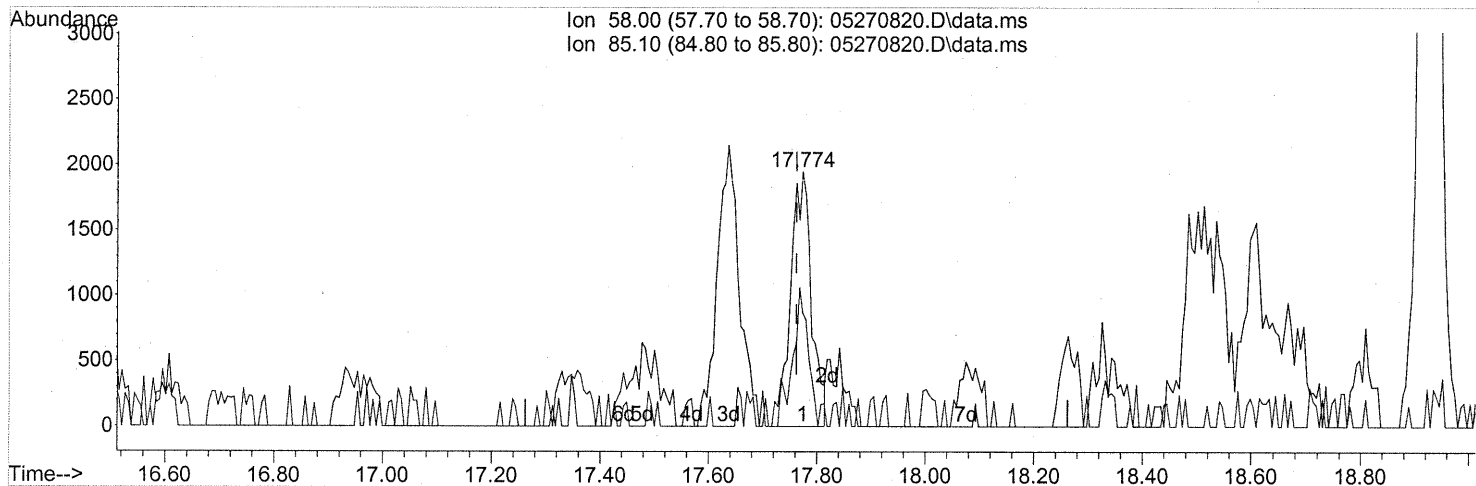
(51) n-Heptane (T)
 16.977min (-0.000) 0.24ng
 response 7819

| Ion | Exp% | Act% |
|--------|--------|--------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 94.16# |
| 100.10 | 30.10 | 29.79 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.774min (+0.011) 0.15ng

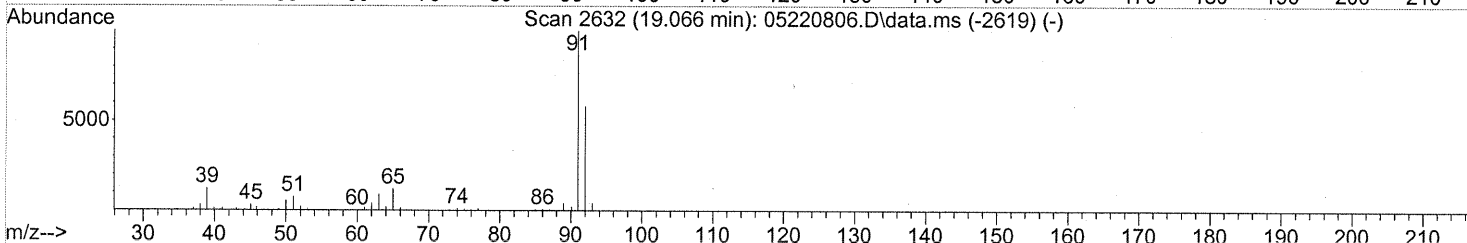
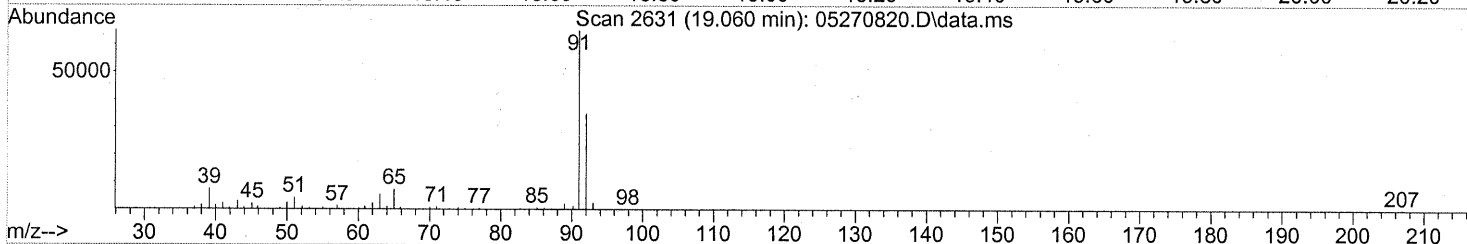
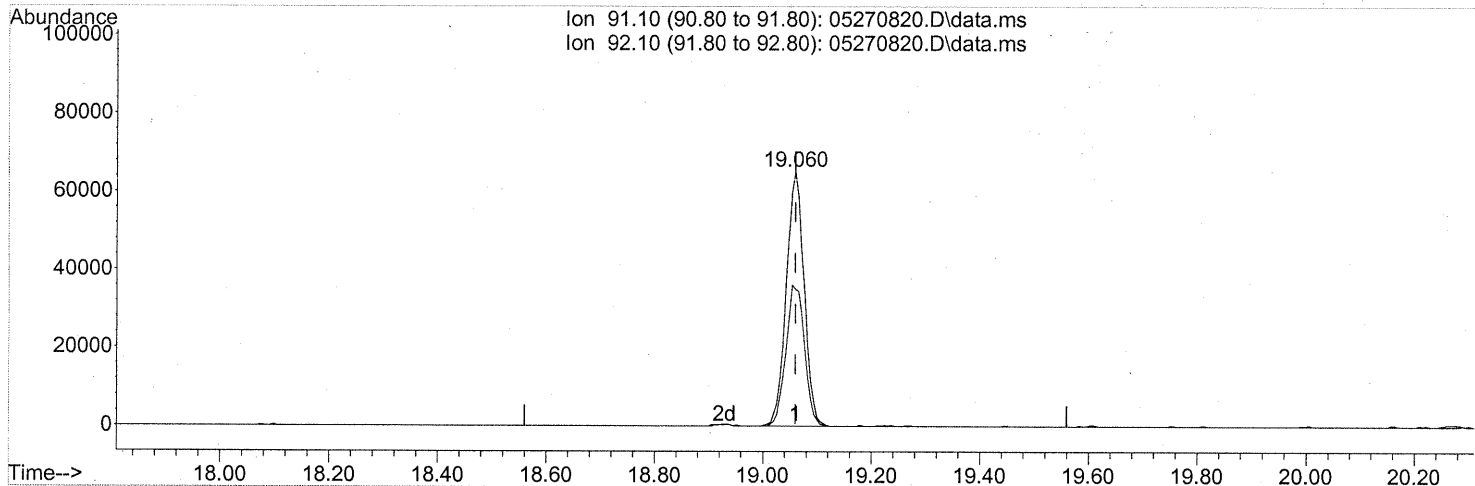
response 5052

| Ion | Exp% | Act% |
|-------|-------|-------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 36.32 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 1.08ng

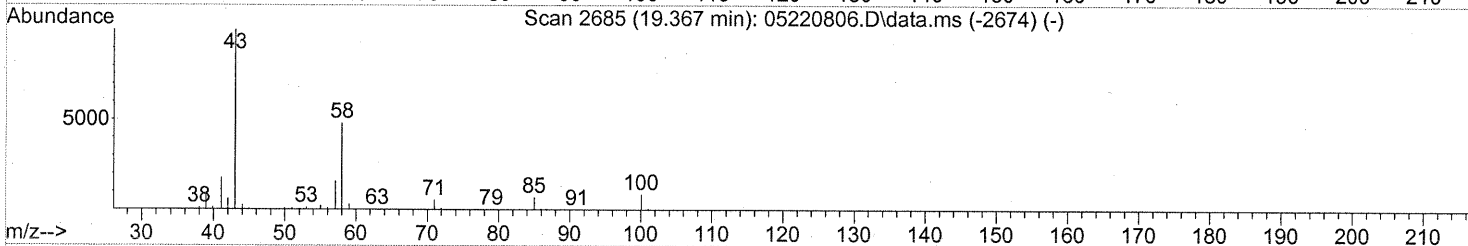
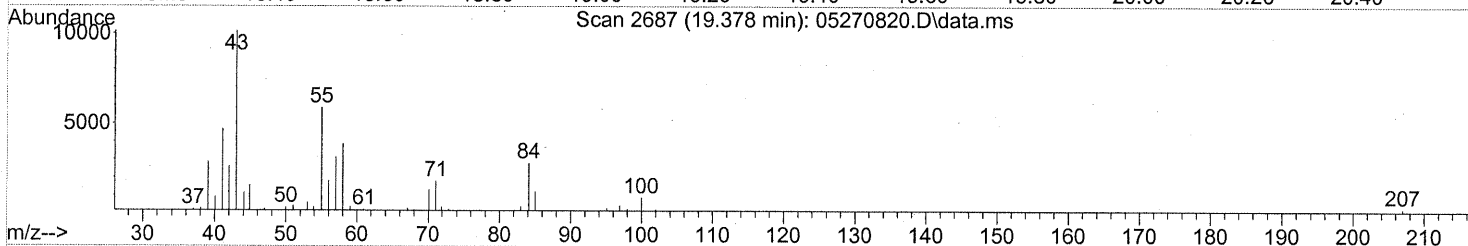
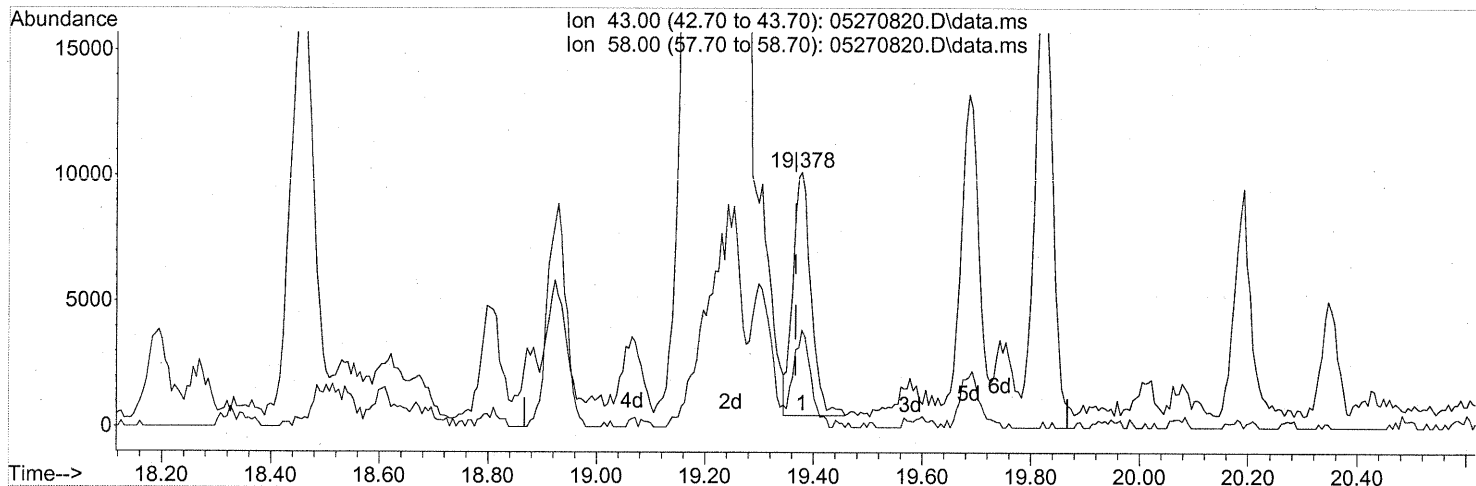
response 147680

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 57.69 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

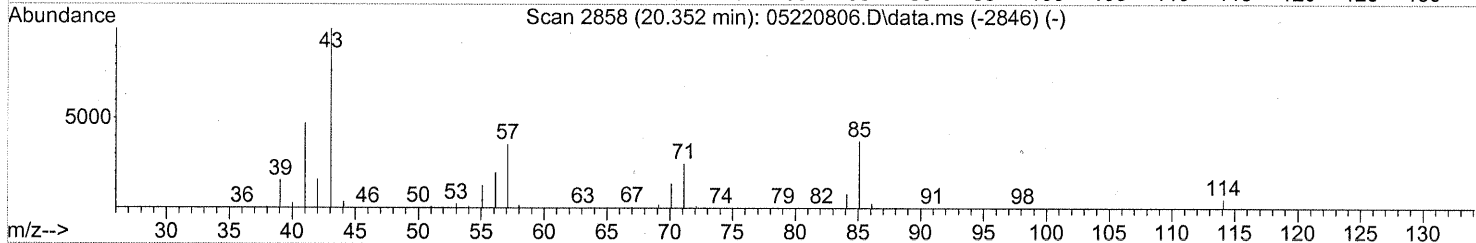
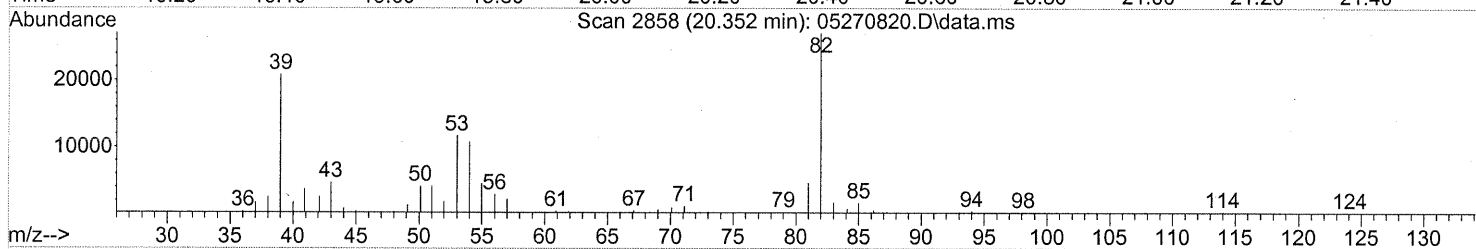
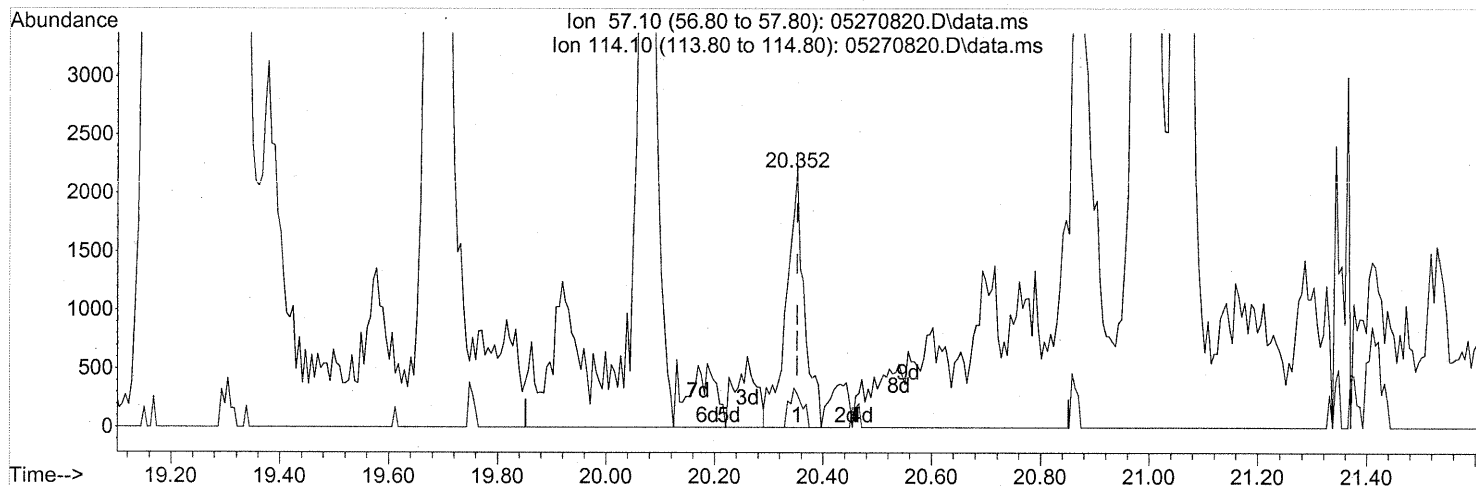
(59) 2-Hexanone (T)
 19.378min (+0.011) 0.24ng
 response 22435

| Ion | Exp% | Act% |
|-------|-------|--------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 38.27# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(63) n-Octane (T)
 20.352min (-0.000) 0.17ng
 response 5081

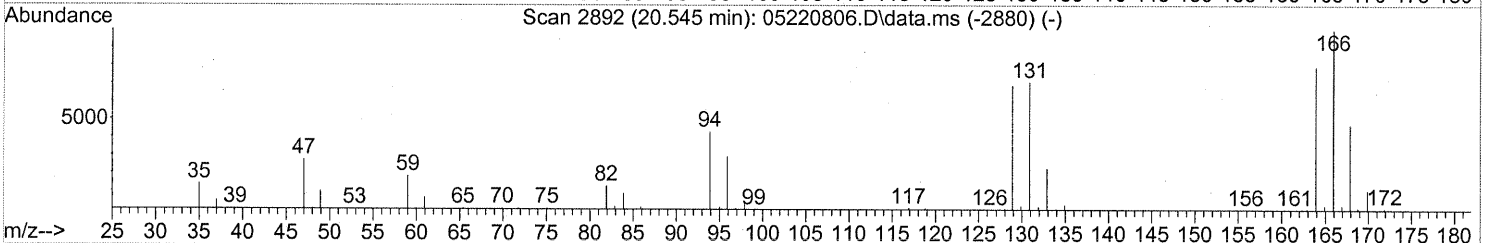
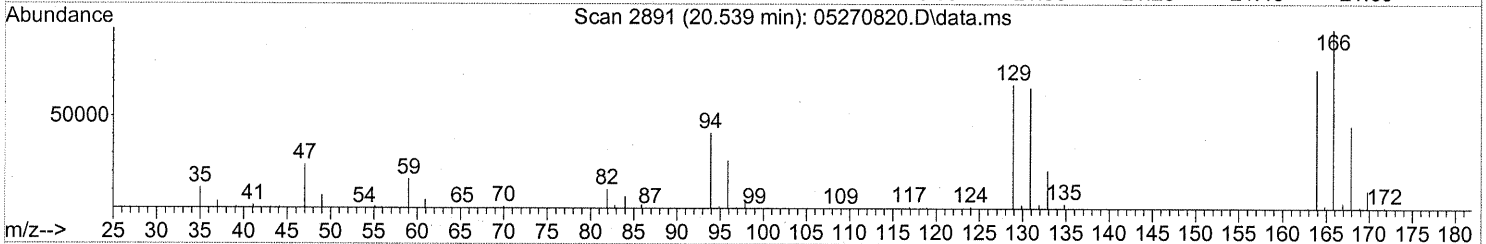
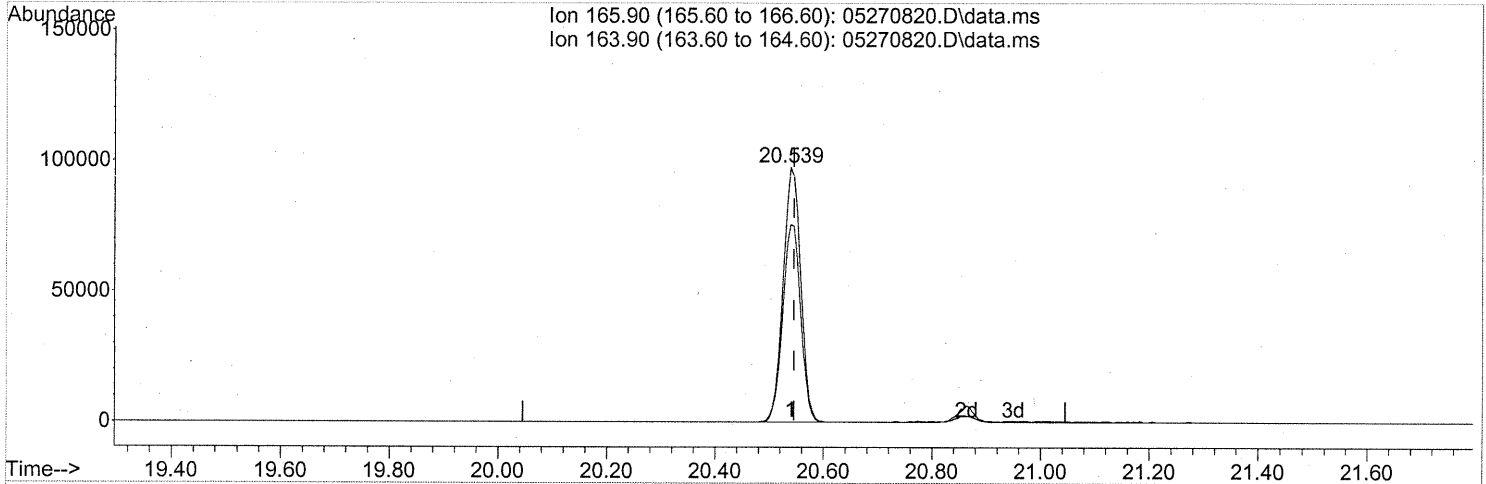
| Ion | Exp% | Act% |
|--------|-------|-------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 10.79 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1035

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(64) Tetrachloroethene (T)

20.539min (-0.006) 5.42ng

response 219277

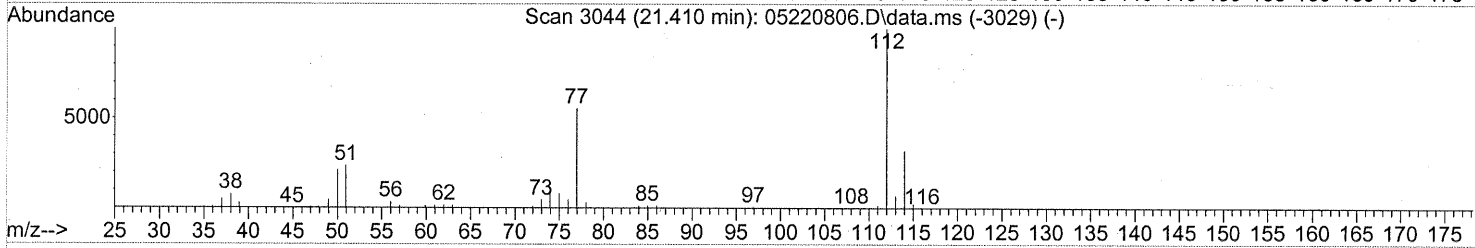
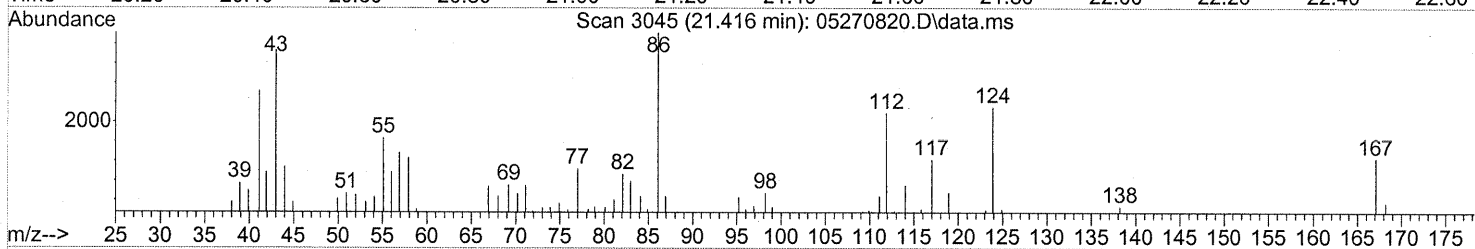
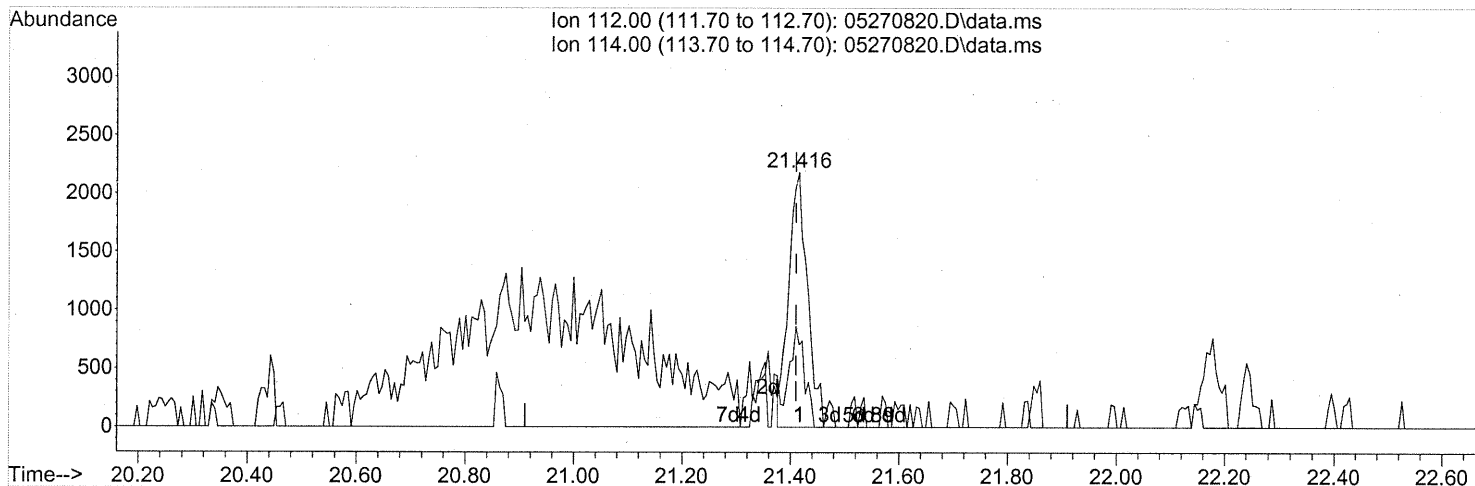
| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 78.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1036

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(65) Chlorobenzene (T)

21.416min (+0.005) 0.06ng

response 5244

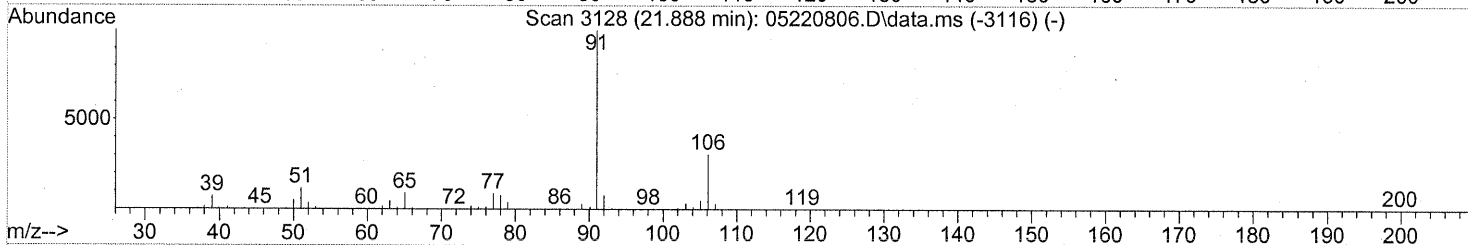
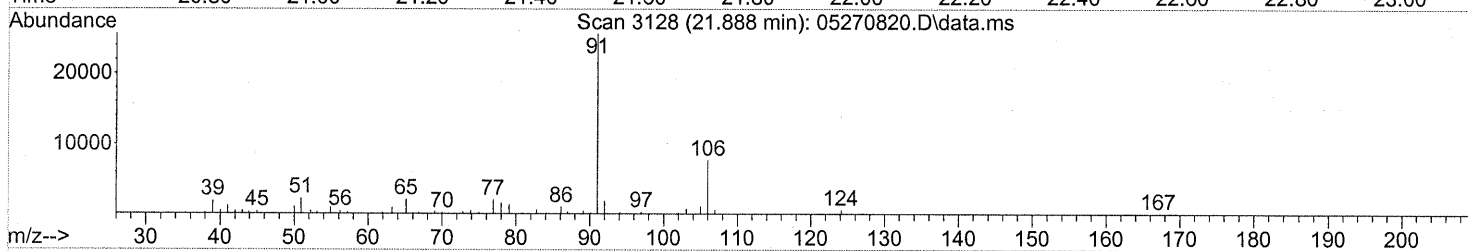
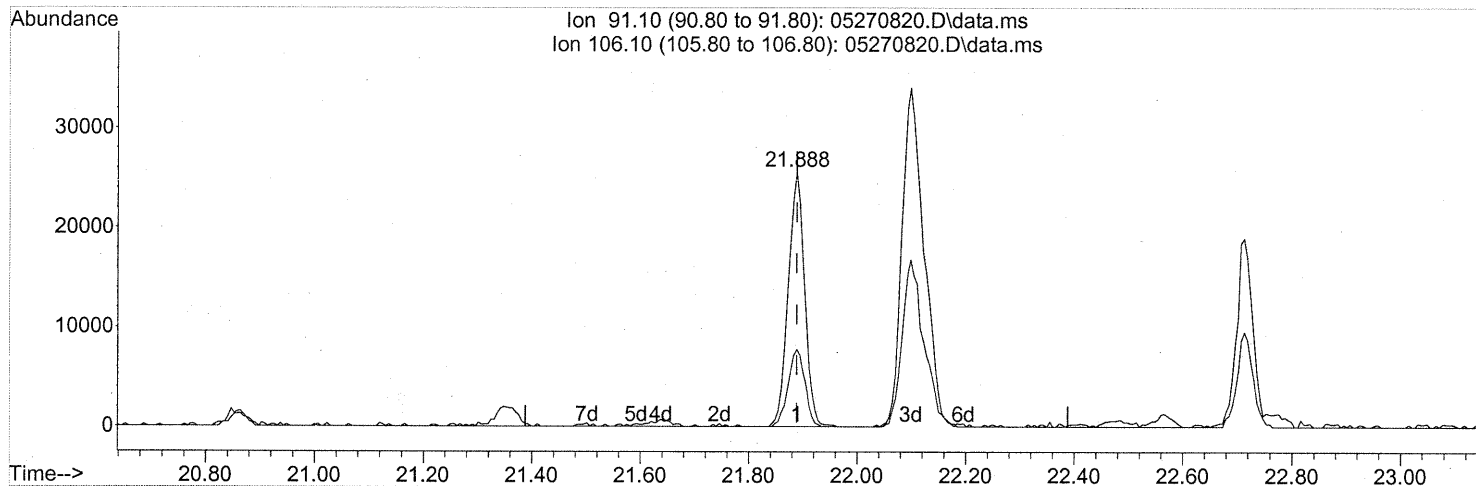
| Ion | Exp% | Act% |
|--------|-------|-------|
| 112.00 | 100 | 100 |
| 114.00 | 32.40 | 30.43 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1037

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(66) Ethylbenzene (T)
 21.888min (-0.000) 0.34ng
 response 53507

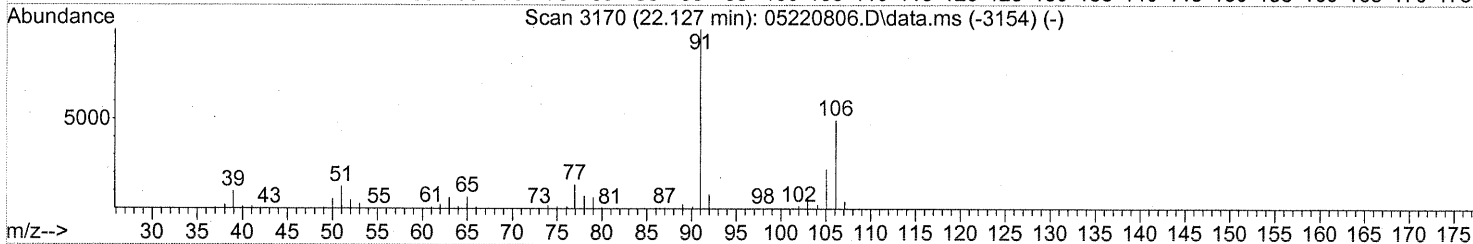
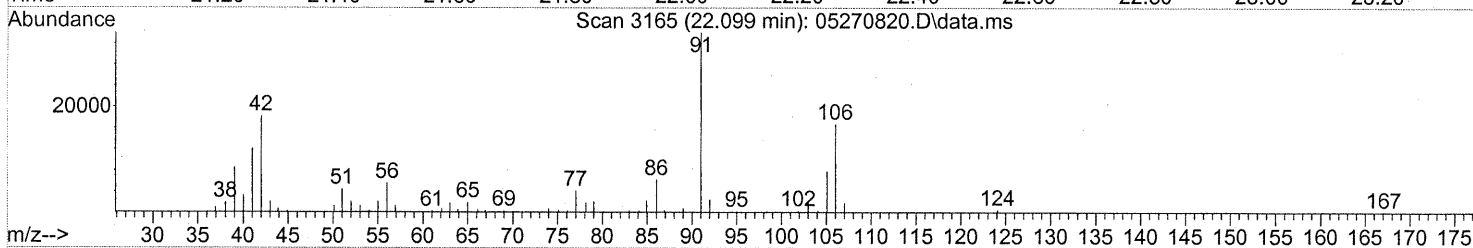
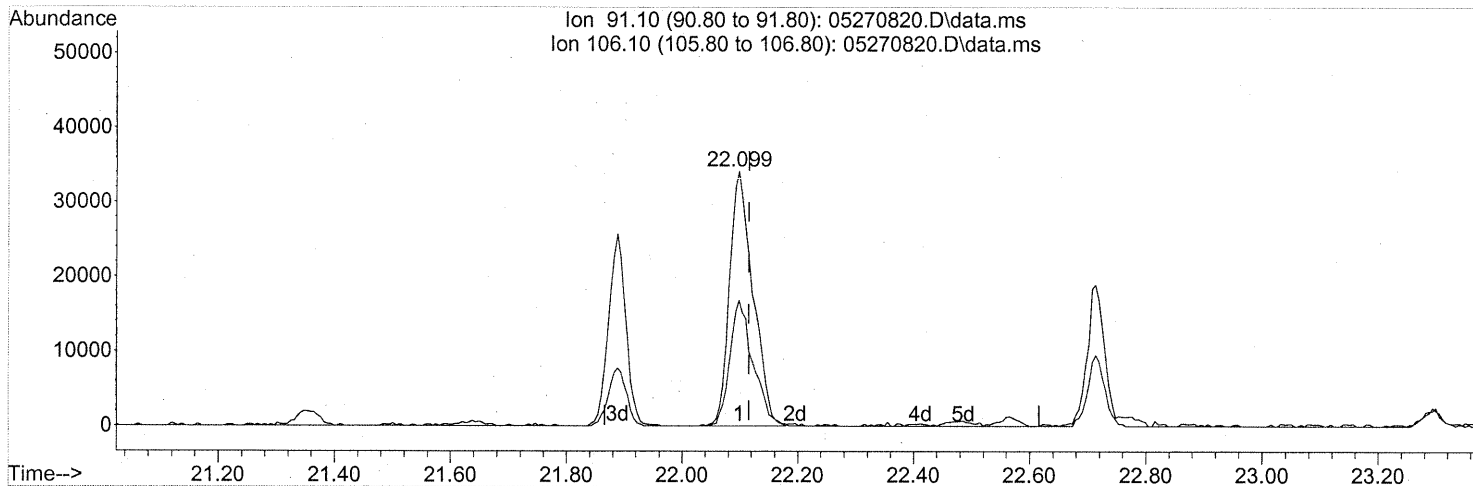
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 34.10 | 31.10 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1038

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.099min (-0.017) 0.91ng

response 95492

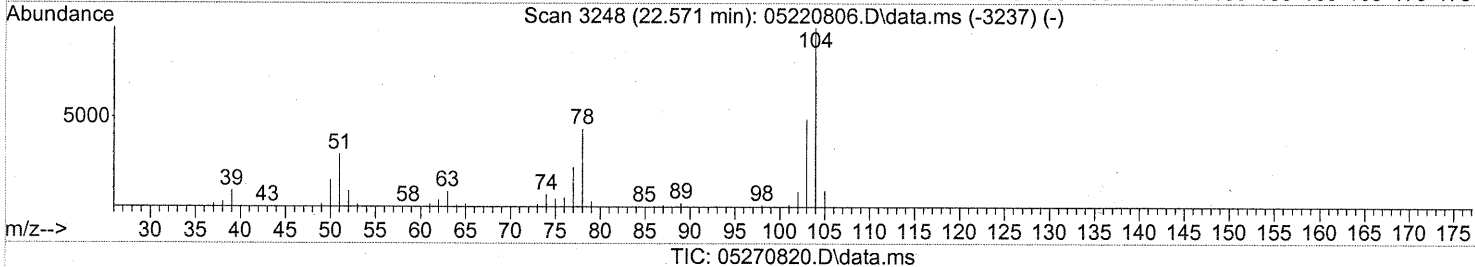
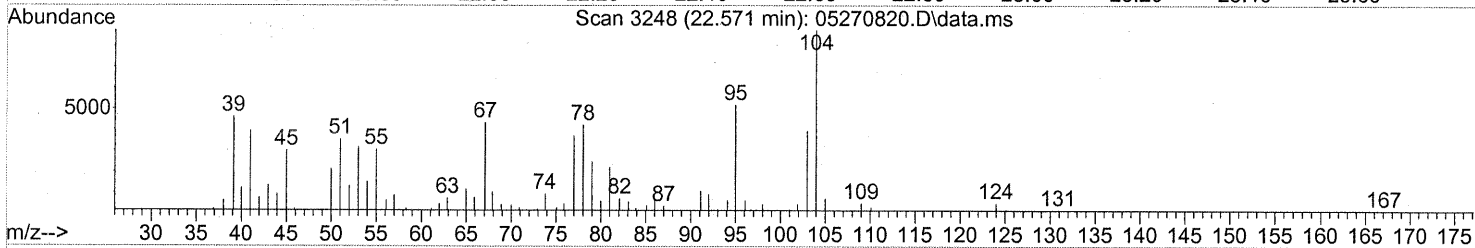
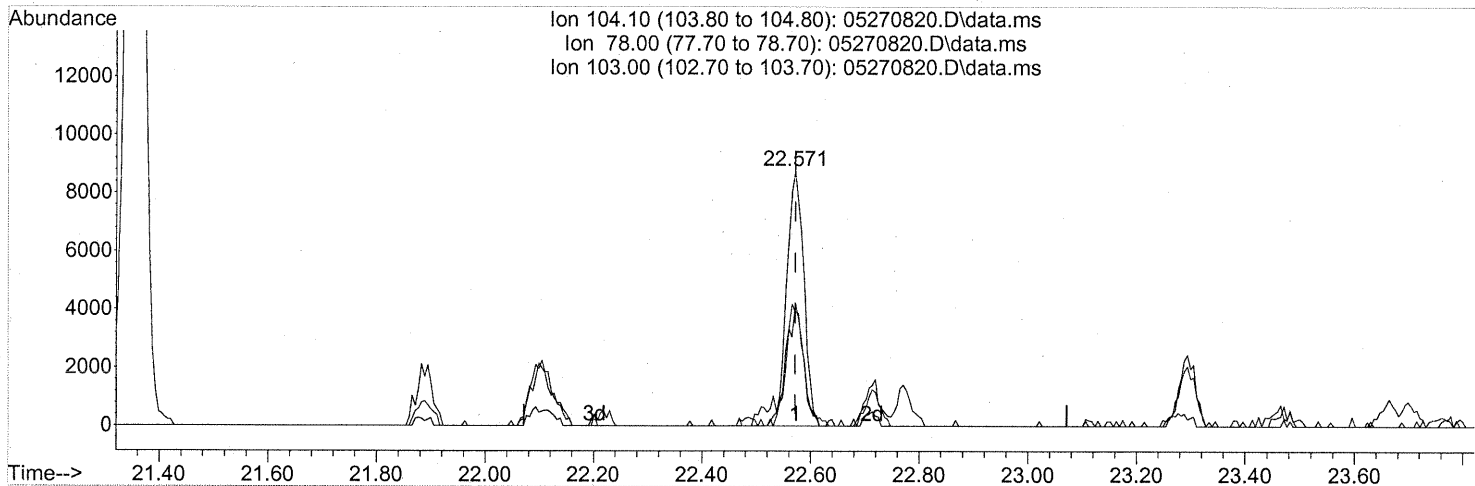
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 48.85 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1039

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(69) Styrene (T)
 22.571min (-0.000) 0.20ng
 response 19207

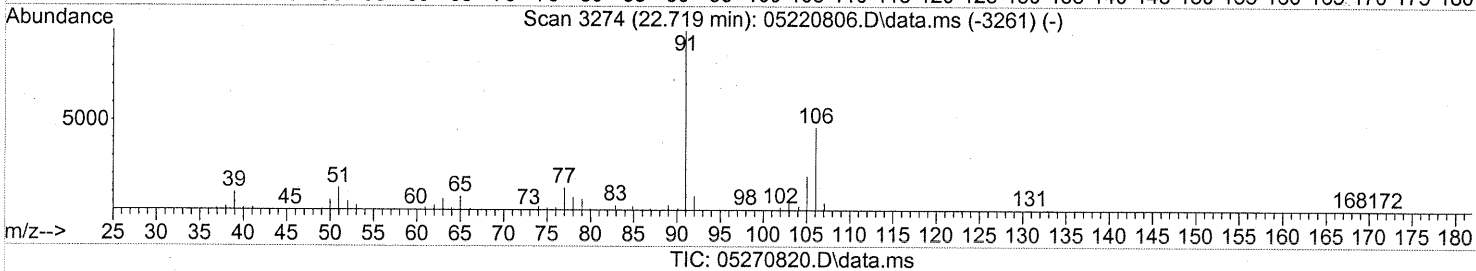
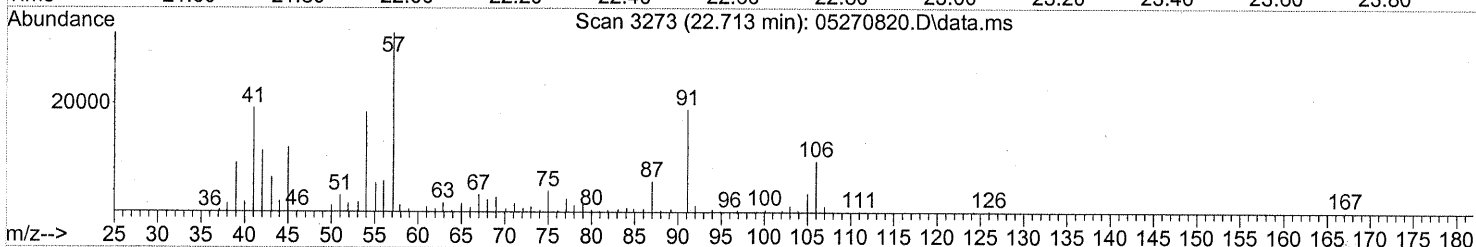
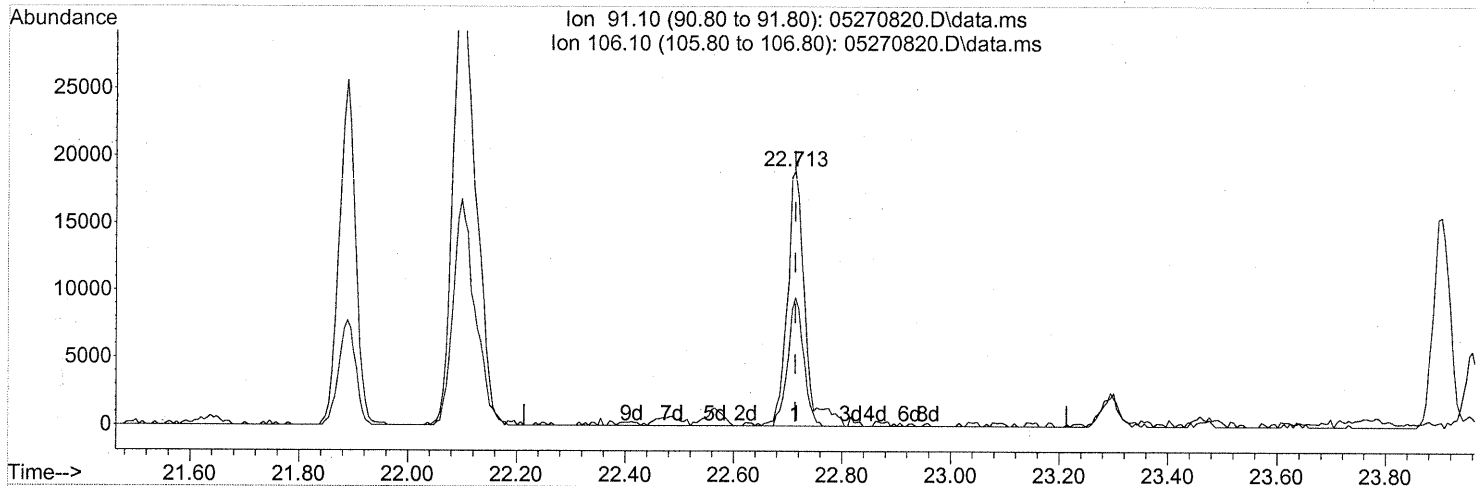
| Ion | Exp% | Act% |
|--------|-------|-------|
| 104.10 | 100 | 100 |
| 78.00 | 39.40 | 45.93 |
| 103.00 | 47.10 | 49.82 |
| 0.00 | 0.00 | 0.00 |

1040

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.713min (-0.000) 0.37ng
 response 41976

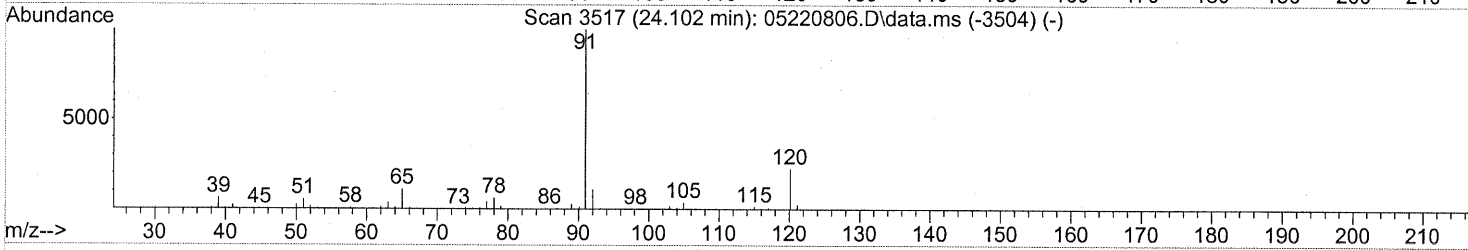
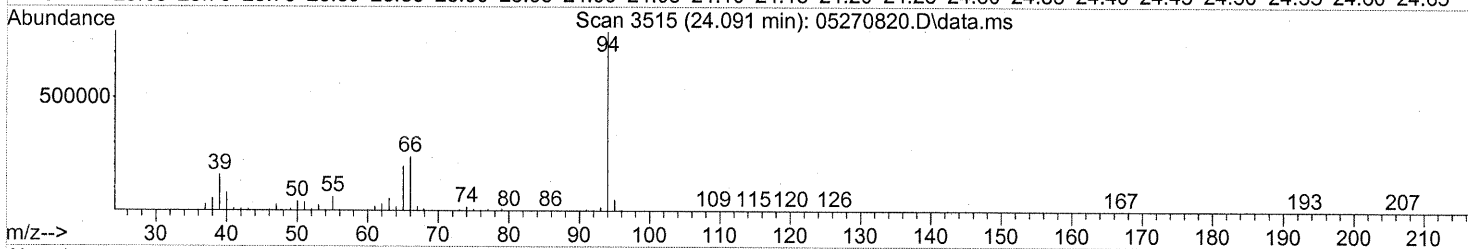
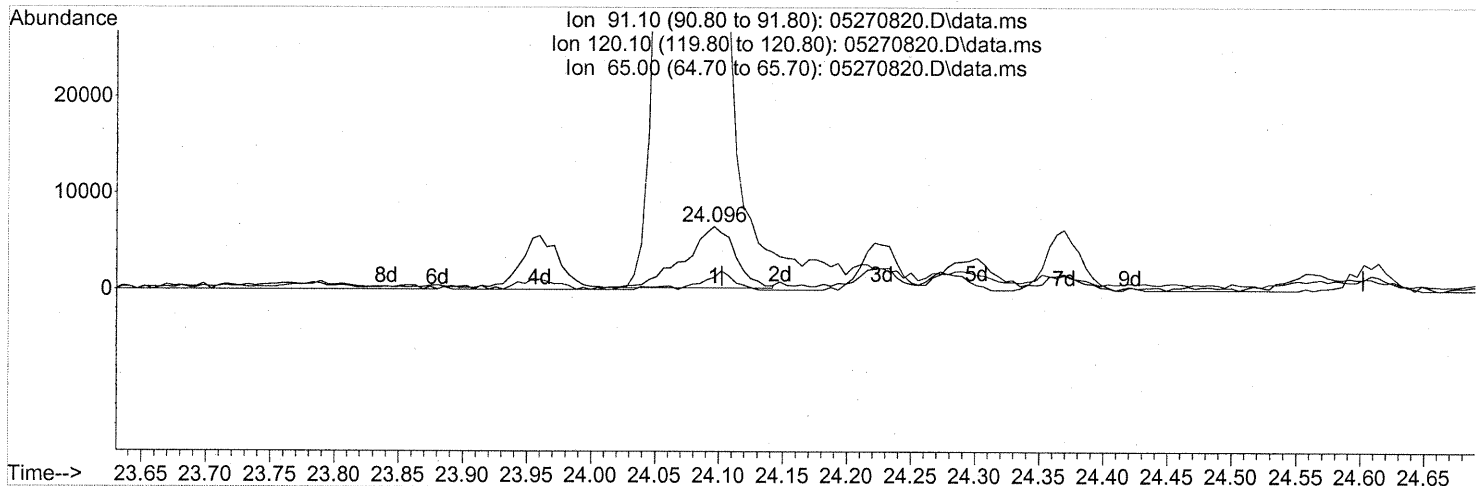
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 45.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1041

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(76) n-Propylbenzene (T)

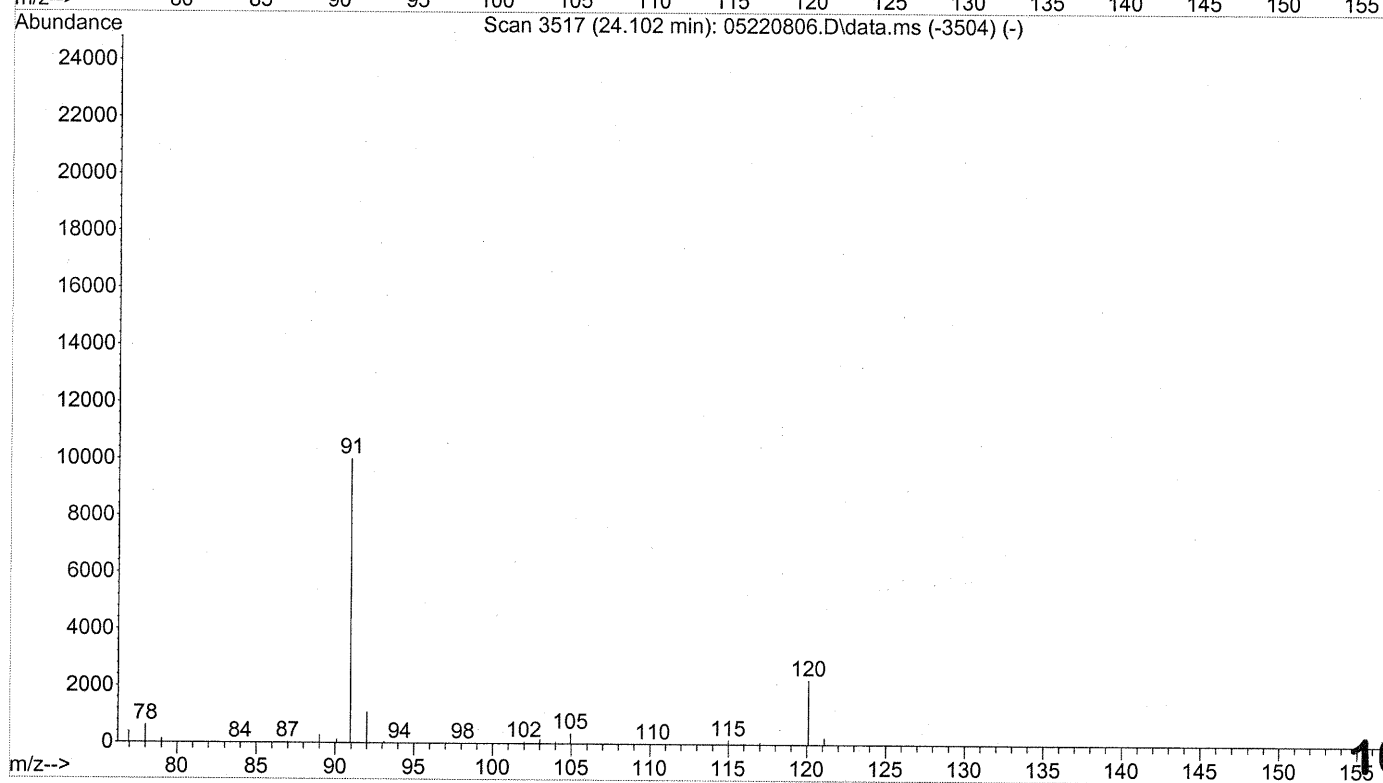
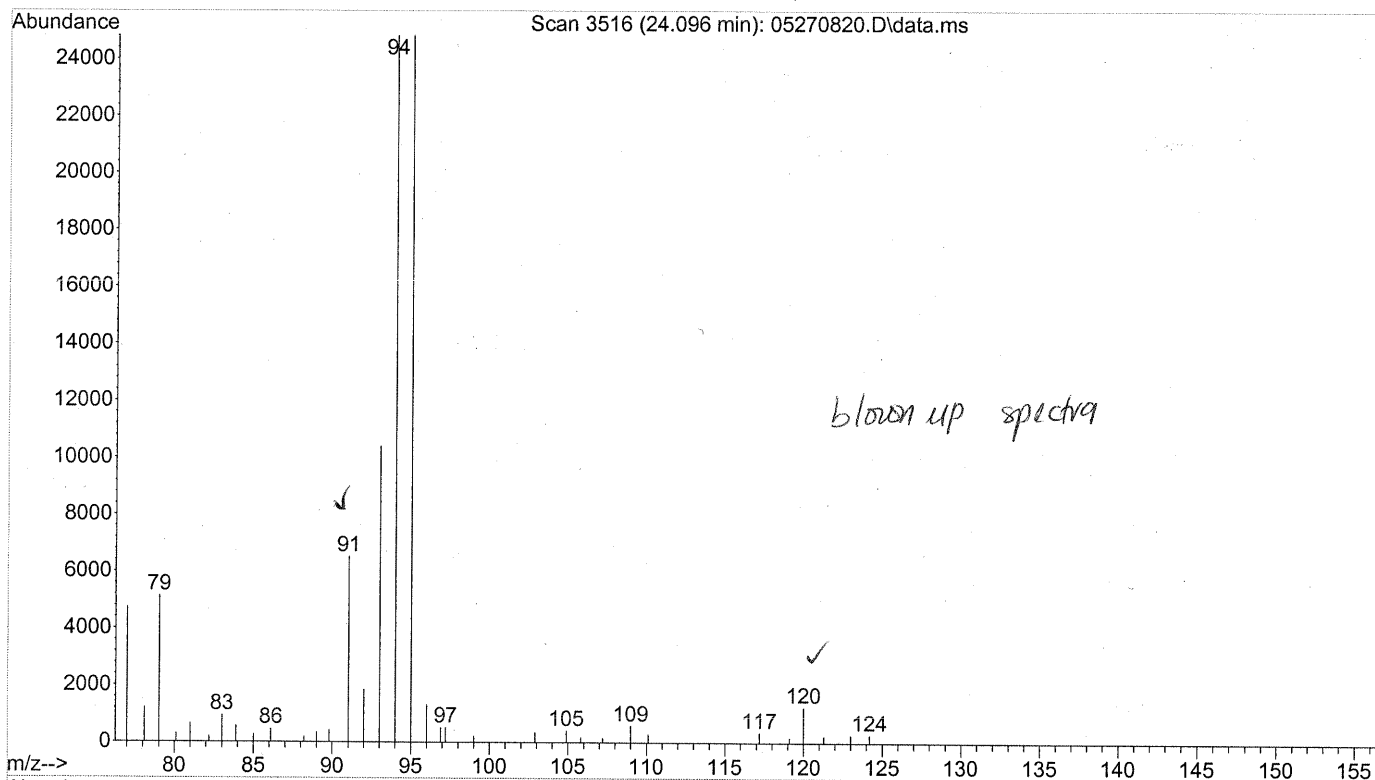
24.096min (-0.006) 0.09ng

response 17312

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 16.60 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

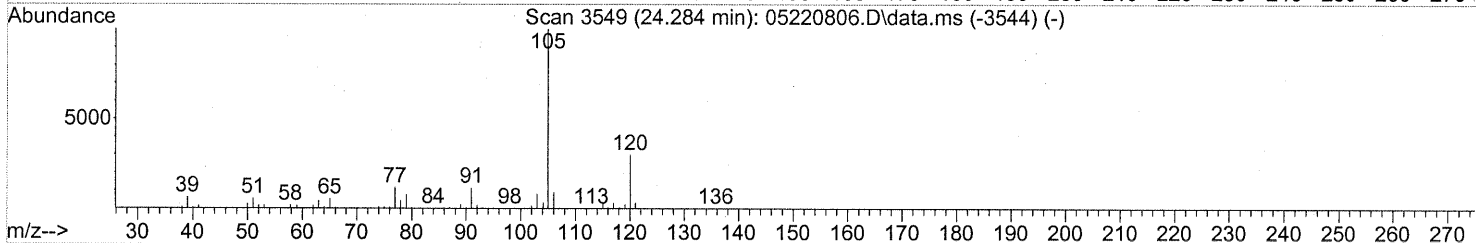
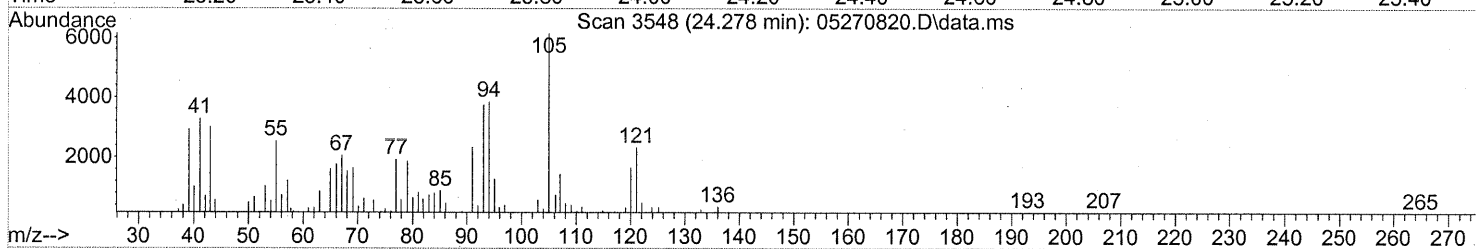
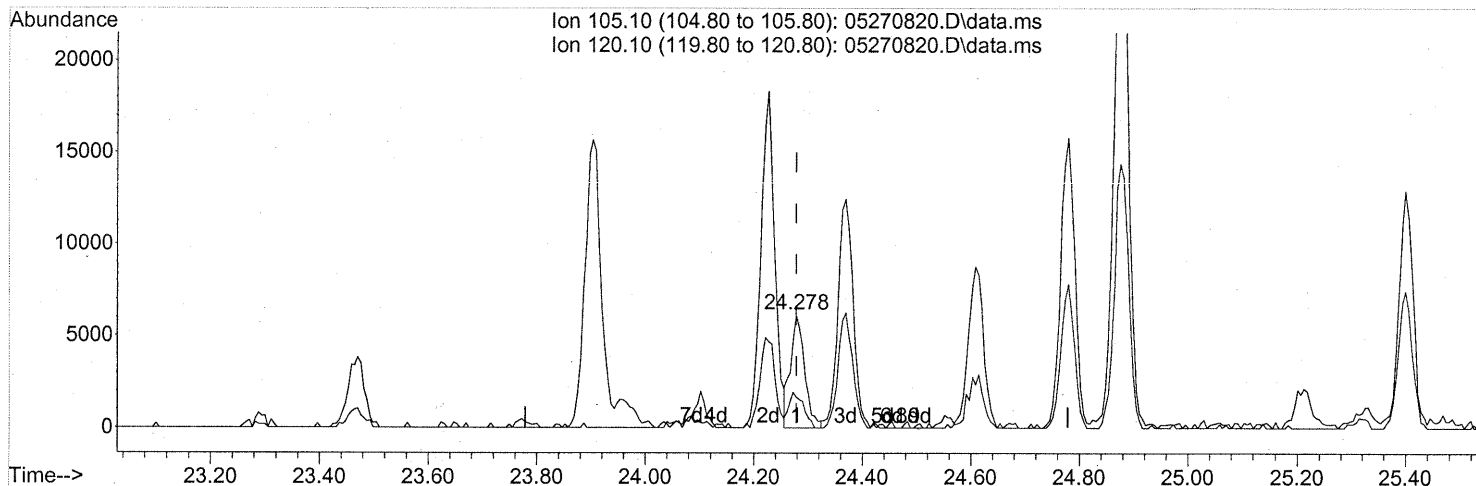
File : J:\MS13\DATA\2008_05\27\05270820.D
Operator : WA
Acquired : 27 May 2008 23:06 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-023 (1000ml)
Misc Info : ENSR SG08B-05 (-2.5, 3.5)
Vial Number: 5



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(78) 4-Ethyltoluene (T)
 24.278min (-0.000) 0.07ng
 response 11146

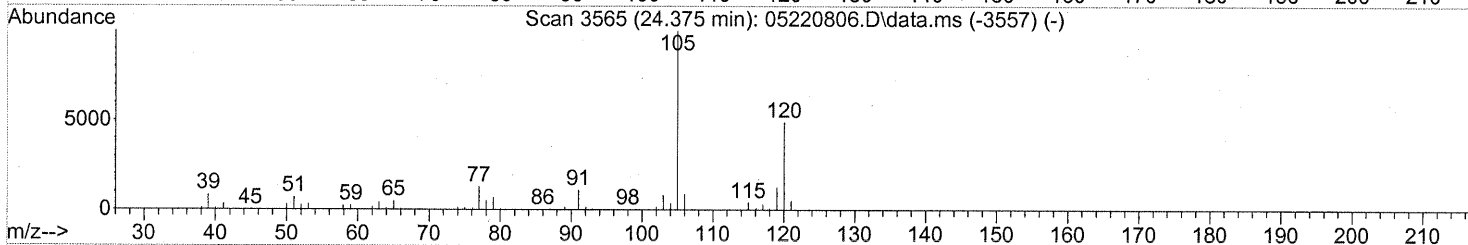
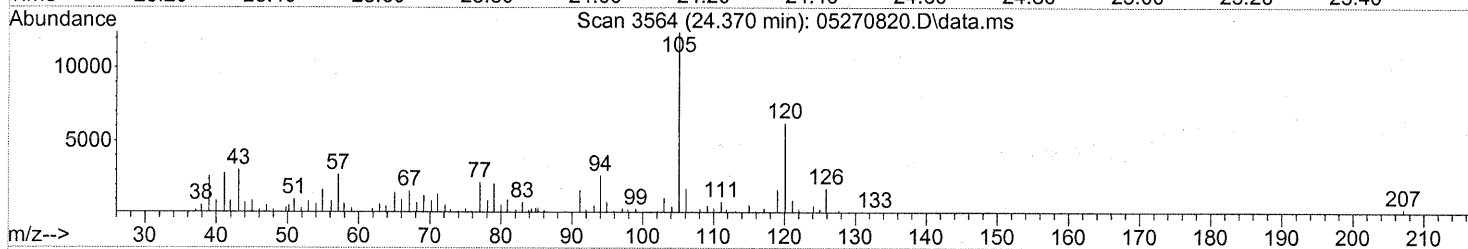
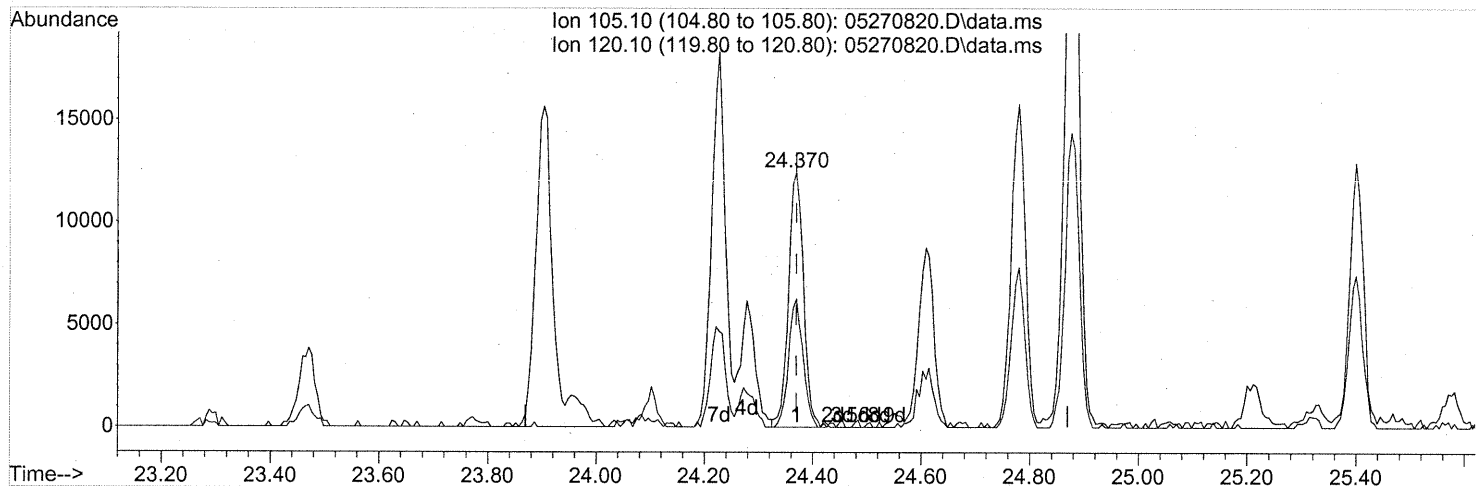
| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 32.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1044

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.370min (-0.000) 0.18ng

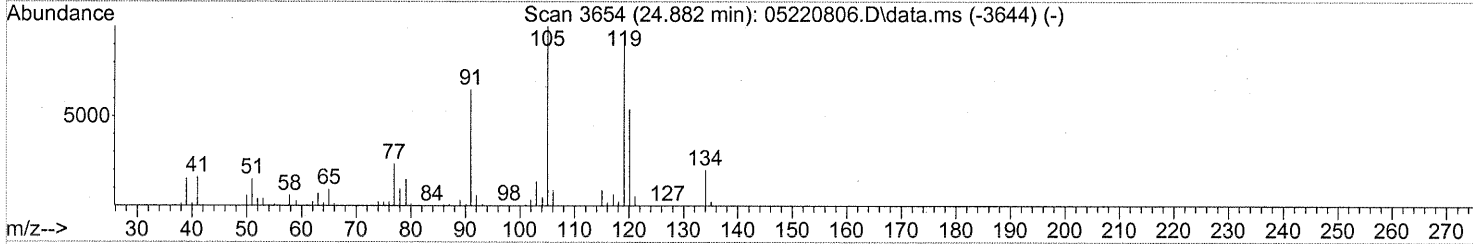
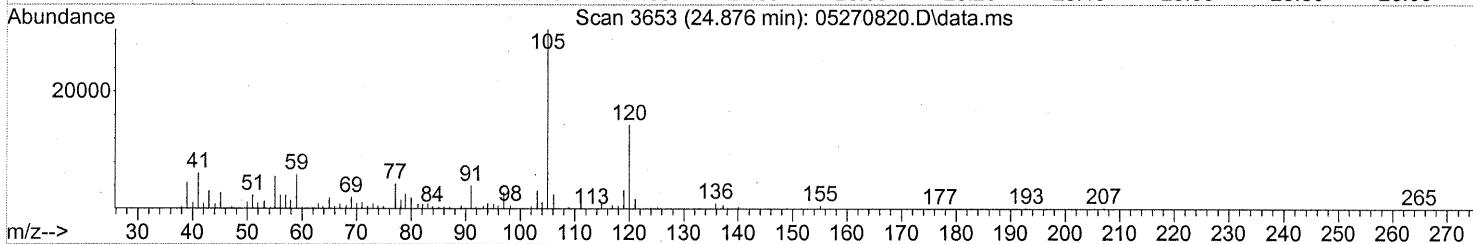
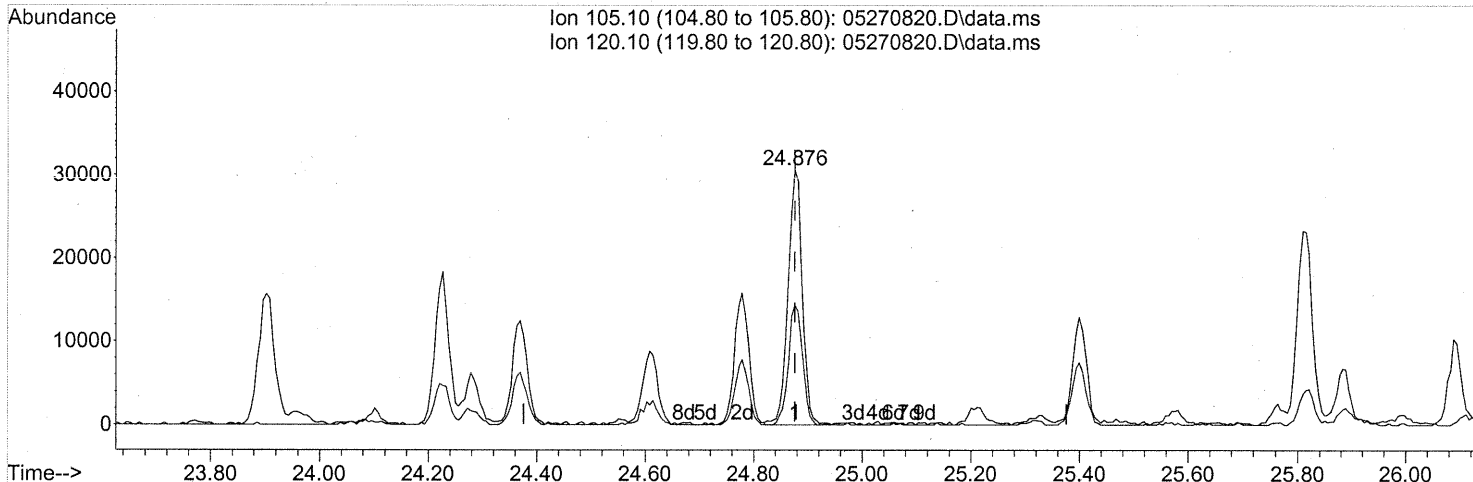
response 24055

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 49.40 | 48.26 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.41ng

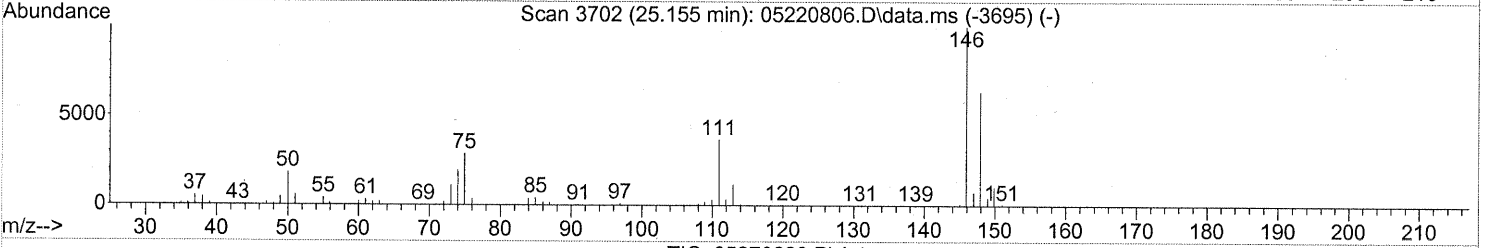
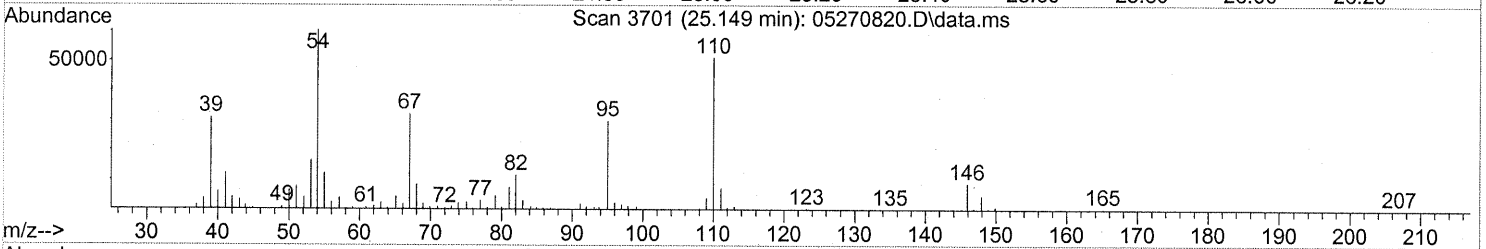
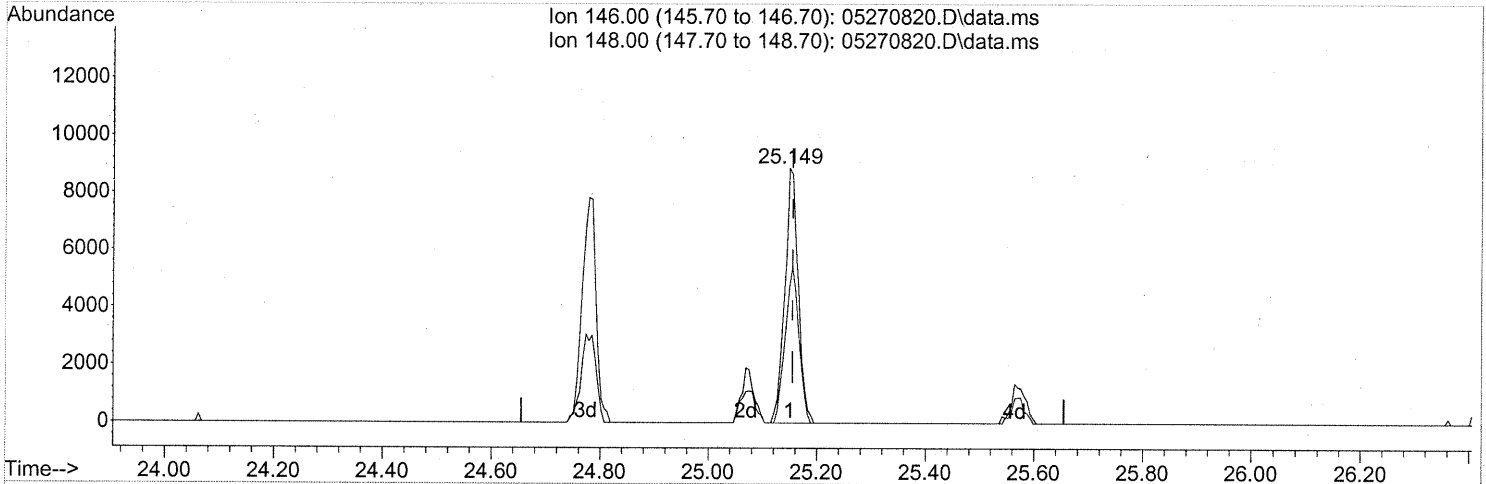
response 55901

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 46.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.18ng

response 15367

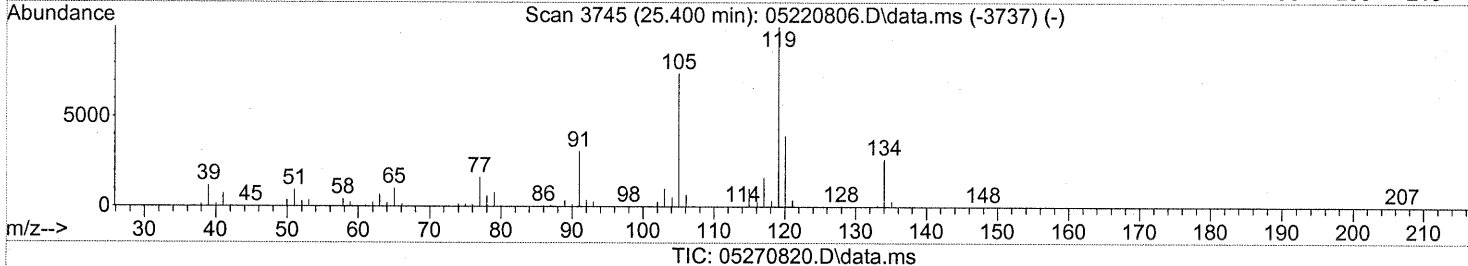
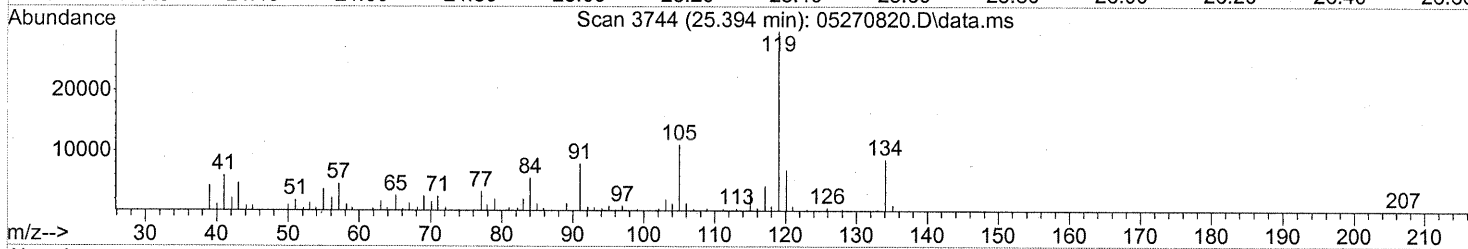
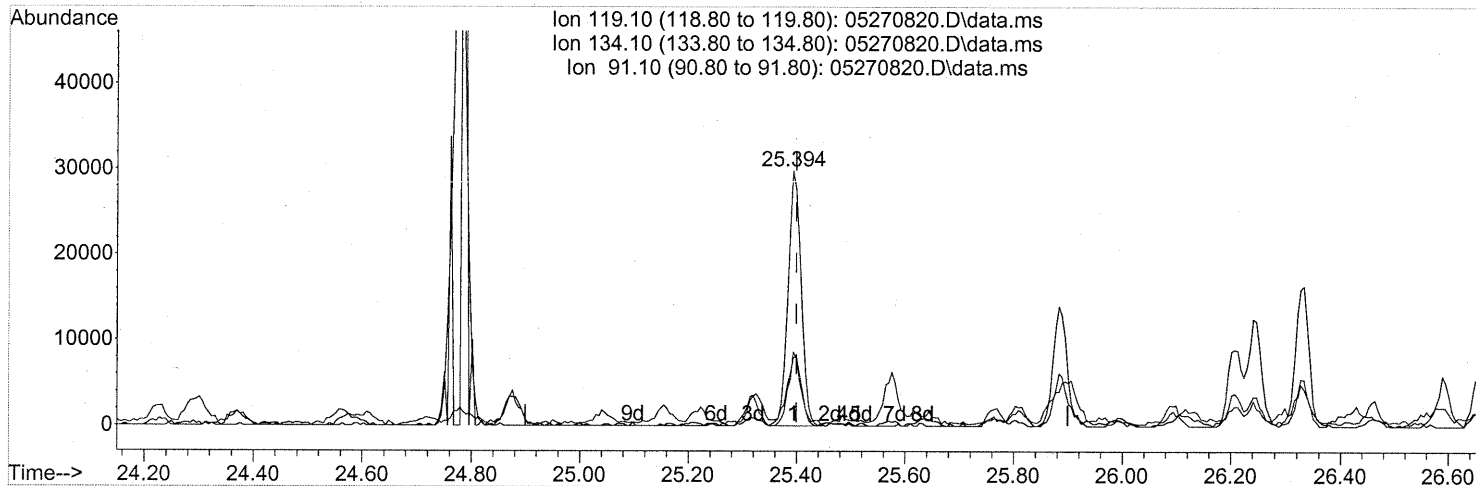
| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 62.64 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1047

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 27 May 2008 23:06
Operator : WA
Sample : P0801483-023 (1000ml)
Misc : ENSR SG08B-05 (-2.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.35ng

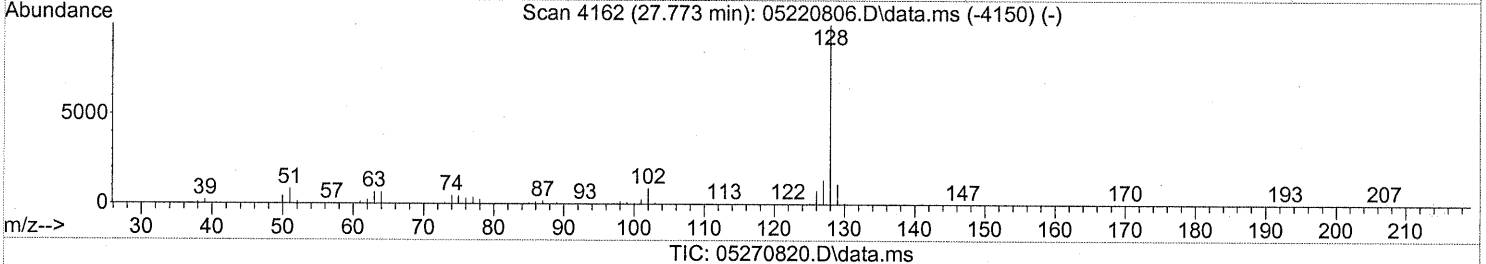
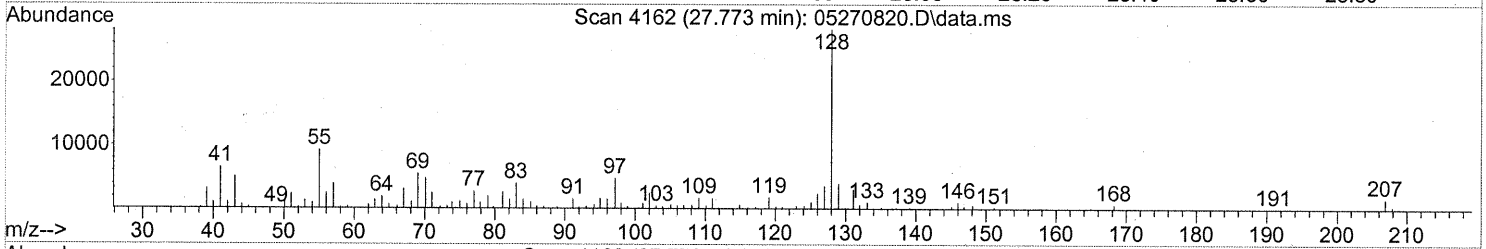
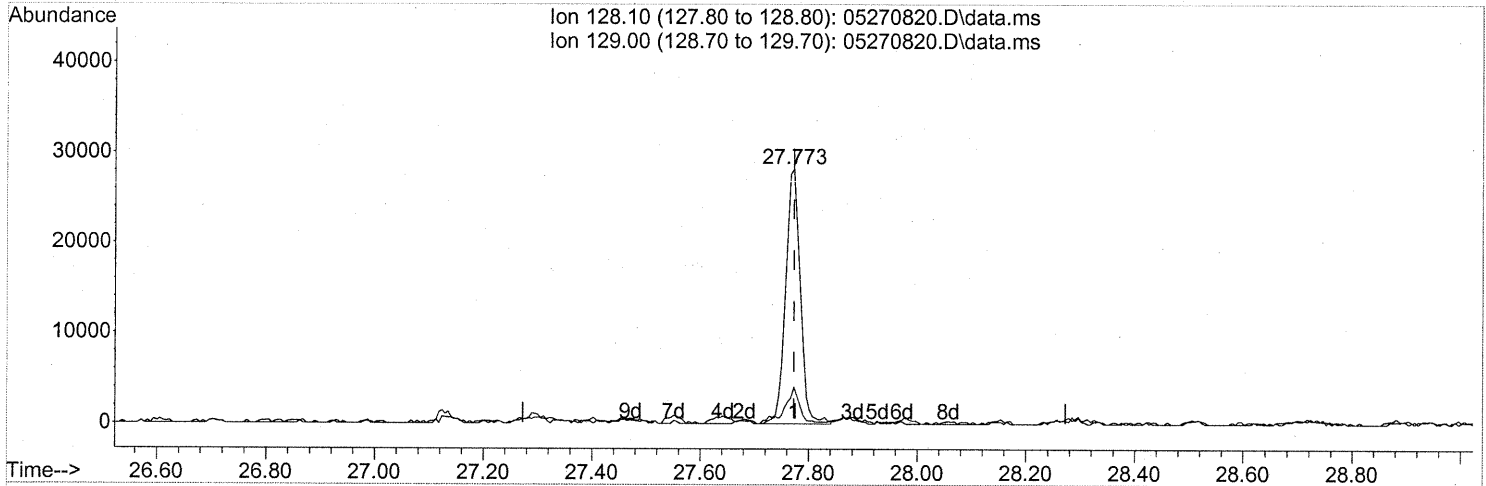
response 50690

| Ion | Exp% | Act% |
|--------|-------|-------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 27.10 |
| 91.10 | 27.10 | 29.47 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:13:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

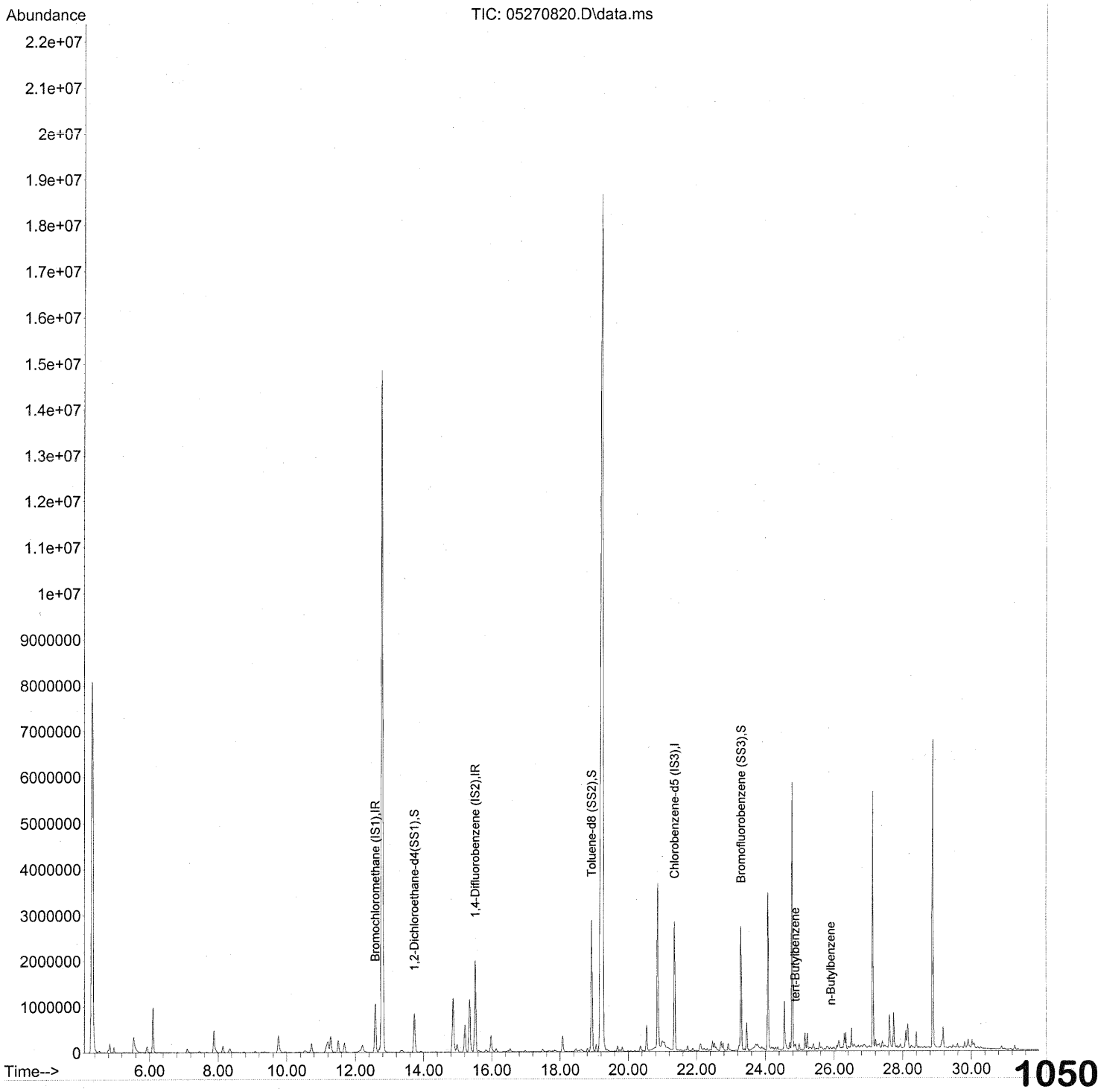


(95) Naphthalene (T)
 27.773min (-0.000) 0.29ng
 response 53295

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 14.07 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 27 May 2008 11:06 pm
Operator : WA
Sample : P0801483-023 (1000ml)
Misc : ENSR SG08B-05 (-2.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 13:13:01 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



1050

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 11:06 pm
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 13:13:01 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

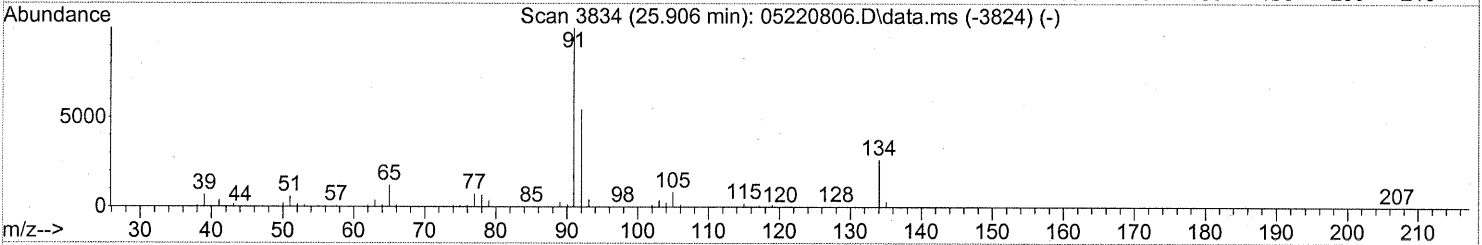
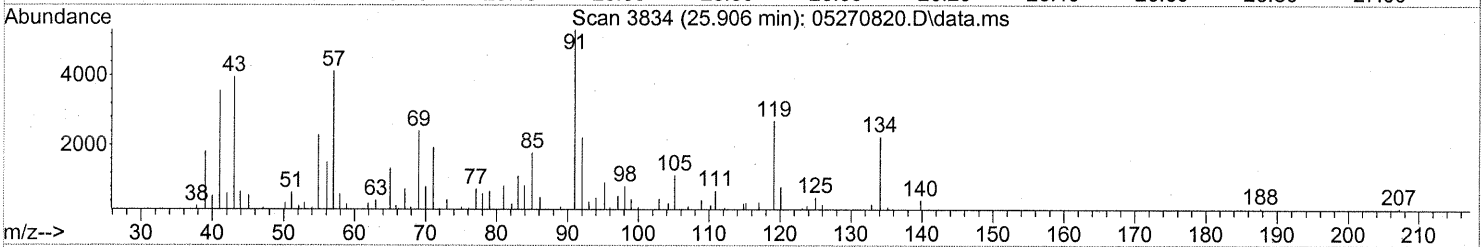
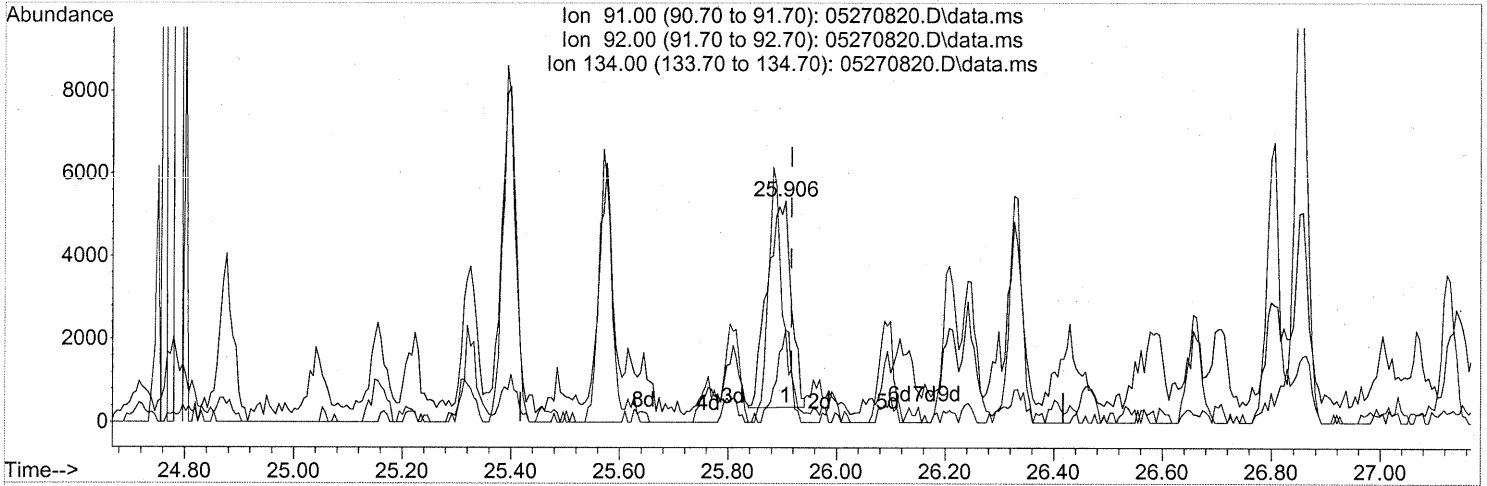
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------------------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 568180 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2384709 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1120415 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 872399 | 22.160 | ng | -0.02 |
| Spiked Amount | 25.000 | | | Recovery | = | 88.64% |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2456835 | 24.416 | ng | -0.01 |
| Spiked Amount | 25.000 | | | Recovery | = | 97.68% |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 1036938 | 25.341 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 101.36% |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.87 | 119 | 7232 | 0.055 ng | # | 54 |
| 8) n-Butylbenzene | 25.91 | 91 | 15246 | 0.105 ng | # | 59 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270820.D
 Acq On : 27 May 2008 23:06
 Operator : WA
 Sample : P0801483-023 (1000ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 31 13:13:01 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05270820.D\data.ms

(8) n-Butylbenzene

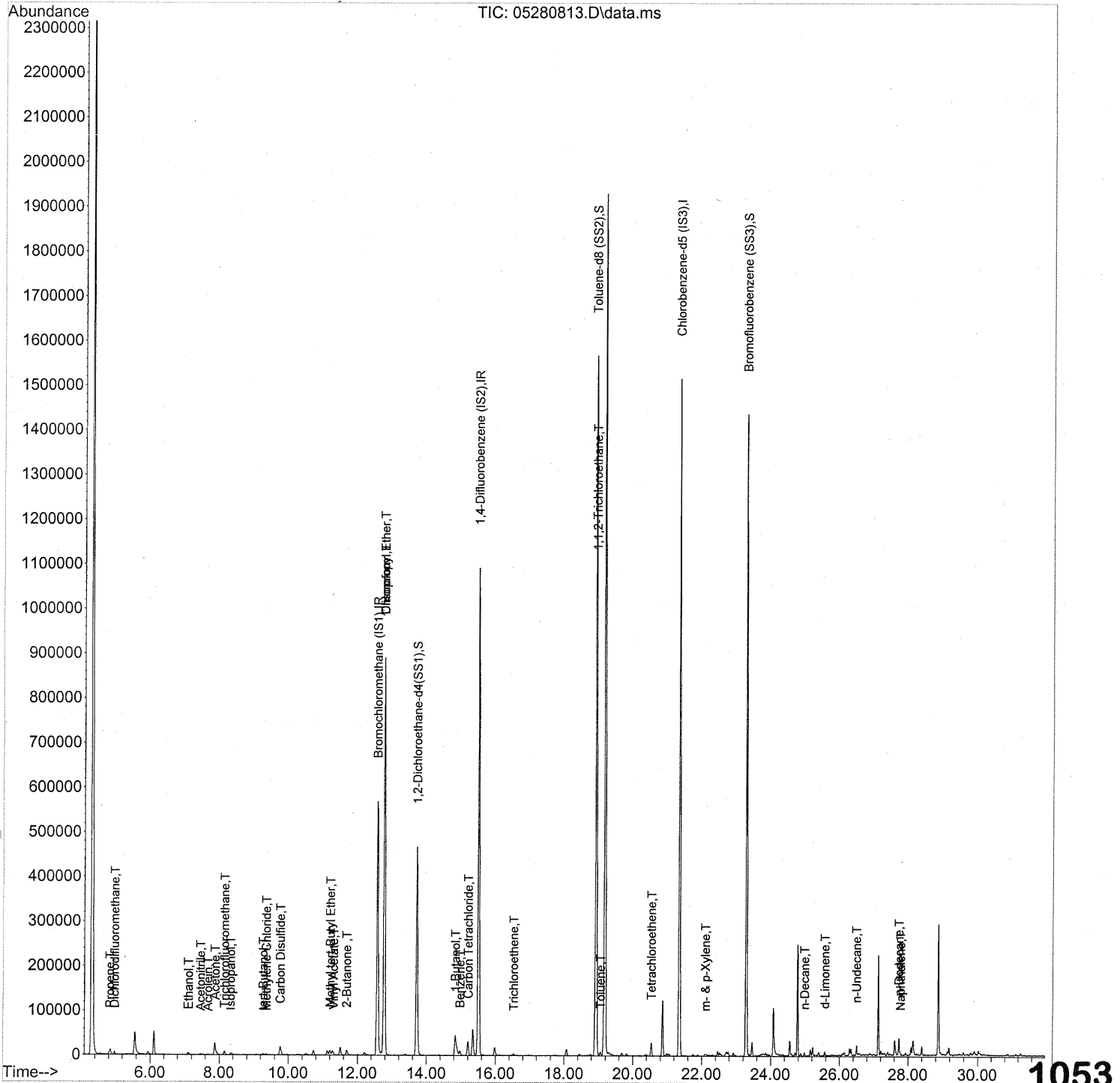
25.906min (-0.011) 0.10ng

response 15246

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 31.16# |
| 134.00 | 28.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280813.D
Acq On : 28 May 2008 19:20
Operator : WA
Sample : P0801483-023 Dil (100ml)
Misc : ENSR SG08B-05 (-2.5, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 04:15:45 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1053

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280813.D
 Acq On : 28 May 2008 19:20
 Operator : WA
 Sample : P0801483-023 Dil (100ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 04:15:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.57 | 130 | 294588 | 25.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1273012 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 597369 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 484218 | 23.722 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 94.88% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1328066 | 24.754 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.00% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 546301 | 25.041 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.16% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------|-------|--------|
| 2) Propene | 4.83 | 42 | 2960 | 0.127 | ng | # 46 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 6432 | 0.150 | ng | 99 |
| 4) Chloromethane | 5.32 | 50 | 722 | N.D. | | |
| 5) Freon 114 | 5.53 | 135 | 54 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 6.02 | 54 | 71 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 6.84 | 64 | 257 | N.D. | | |
| 10) Ethanol | 7.11 | 45 | 7874 | 0.508 | ng | 92 |
| 11) Acetonitrile | 7.46 | 41 | 3200 | 0.071 | ng | # 69 |
| 12) Acrolein | 7.67 | 56 | 945 | 0.085 | ng | # 30 |
| 13) Acetone | 7.88 | 58 | 16640 | 1.049 | ng | 89 |
| 14) Trichlorofluoromethane | 8.15 | 101 | 9122 | 0.248 | ng | 96 |
| 15) Isopropanol | 8.33 | 45 | 5288 | 0.105 | ng | 97 |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.27 | 59 | 4566 | 0.106 | ng | 88 |
| 19) Methylene Chloride | 9.36 | 84 | 1039 | 0.059 | ng | # 47 |
| 20) Allyl Chloride | 9.55 | 41 | 64 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 497 | N.D. | | |
| 22) Carbon Disulfide | 9.77 | 76 | 43257 | 0.643 | ng | 98 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 11.11 | 63 | 111 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.21 | 73 | 12008 | 0.234 | ng | 88 |
| 26) Vinyl Acetate | 11.31 | 86 | 499 | 0.170 | ng | # 77 |
| 27) 2-Butanone | 11.68 | 72 | 4411 | 0.381 | ng | # 90 |
| 28) cis-1,2-Dichloroethene | 12.34 | 61 | 173 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 98531 | 6.947 | ng | # 1 |
| 30) Ethyl Acetate | 12.71 | 61 | 244 | N.D. | | |
| 31) n-Hexane | 12.69 | 57 | 886 | N.D. | | |

1054

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280813.D
 Acq On : 28 May 2008 19:20
 Operator : WA
 Sample : P0801483-023 Dil (100ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 04:15:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-----------|-------|----------|
| 32) Chloroform | 12.78 | 83 | 956295 | 35.599 ng | | 99 |
| 34) Tetrahydrofuran | 13.37 | 72 | 116 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.74 | 62 | 190 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.84 | 56 | 51127 | 2.922 ng | | 87 |
| 41) Benzene | 14.98 | 78 | 10884 | 0.163 ng | | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 26424 | 1.029 ng | | 97 |
| 43) Cyclohexane | 15.41 | 84 | 191 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 195 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 16.45 | 83 | 970 | N.D. | | |
| 47) Trichloroethene | 16.53 | 130 | 1822 | 0.089 ng | | 92 |
| 48) 1,4-Dioxane | 16.52 | 88 | 53 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 1088 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 16.98 | 71 | 530 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 52 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 115172 | 6.992 ng | # | 8 |
| 58) Toluene | 19.06 | 91 | 7999 | 0.110 ng | | 99 |
| 59) 2-Hexanone | 19.38 | 43 | 1825 | N.D. | | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.20 | 43 | 1511 | N.D. | | |
| 63) n-Octane | 20.36 | 57 | 51 | N.D. | | |
| 64) Tetrachloroethene | 20.54 | 166 | 11246 | 0.521 ng | | 98 |
| 65) Chlorobenzene | 21.40 | 112 | 367 | N.D. | | |
| 66) Ethylbenzene | 21.89 | 91 | 3124 | N.D. | | |
| 67) m- & p-Xylene | 22.10 | 91 | 5213 | 0.093 ng | | 92 |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.57 | 104 | 1398 | N.D. | | |
| 70) o-Xylene | 22.71 | 91 | 2500 | N.D. | | |
| 71) n-Nonane | 22.98 | 43 | 1480 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.43 | 83 | 57 | N.D. | | |
| 74) Cumene | 23.46 | 105 | 893 | N.D. | | |
| 75) alpha-Pinene | 23.97 | 93 | 1193 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 1200 | N.D. | | |
| 77) 3-Ethyltoluene | 24.22 | 105 | 2206 | N.D. | | |
| 78) 4-Ethyltoluene | 24.29 | 105 | 1119 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.36 | 105 | 1902 | N.D. | | |

1055

WA 6/2/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280813.D
 Acq On : 28 May 2008 19:20
 Operator : WA
 Sample : P0801483-023 Dil (100ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 04:15:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

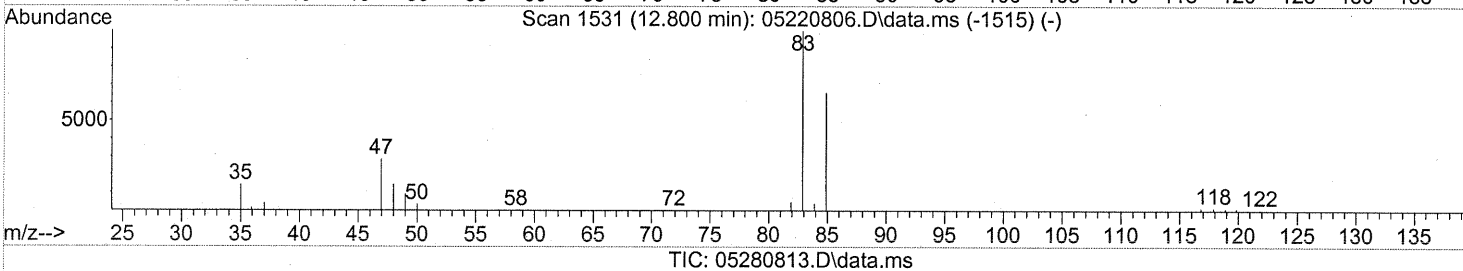
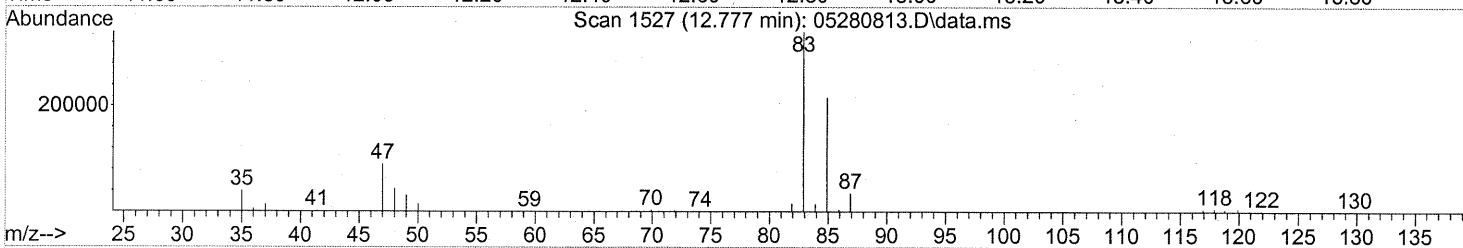
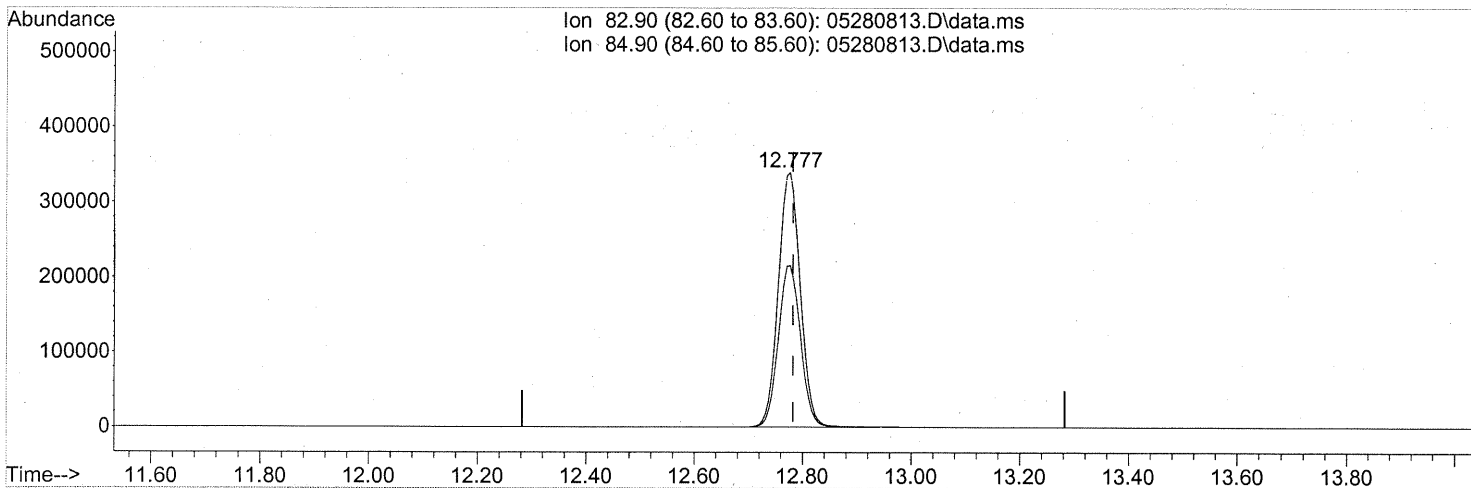
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 160 | N.D. | | |
| 81) 2-Ethyltoluene | 24.60 | 105 | 1478 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 3372 | N.D. | | |
| 83) n-Decane | 24.98 | 57 | 3342 | 0.083 | ng | 91 |
| 84) Benzyl Chloride | 25.05 | 91 | 504 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 386 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 1359 | N.D. | | |
| 87) sec-Butylbenzene | 25.21 | 105 | 576 | N.D. | | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3063 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 1528 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.56 | 146 | 379 | N.D. | | |
| 91) d-Limonene | 25.58 | 68 | 1989 | 0.068 | ng | 94 |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 8096 | 0.192 | ng | # 67 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 444 | N.D. | | |
| 95) Naphthalene | 27.78 | 128 | 4885 | 0.050 | ng | 94 |
| 96) n-Dodecane | 27.73 | 57 | 12784 | 0.304 | ng | 87 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 199 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280813.D
 Acq On : 28 May 2008 19:20
 Operator : WA
 Sample : P0801483-023 Dil (100ml)
 Misc : ENSR SG08B-05 (-2.5, 3.5)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 29 04:15:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280813.D\data.ms

(32) Chloroform (T)
 12.777min (-0.006) 35.60ng
 response 956295

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 64.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR

Client Sample ID: SG09B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-024

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00924

Date Collected: 5/18/08

Date Received: 5/20/08

Date Analyzed: 5/27 - 5/28/08

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.65

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.2 | 0.83 | 0.083 | 0.44 | 0.17 | 0.017 | |
| 74-87-3 | Chloromethane | ND | 0.17 | 0.083 | ND | 0.080 | 0.040 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.83 | 0.083 | ND | 0.12 | 0.012 | |
| 75-01-4 | Vinyl Chloride | ND | 0.17 | 0.083 | ND | 0.065 | 0.032 | |
| 74-83-9 | Bromomethane | ND | 0.17 | 0.083 | ND | 0.043 | 0.021 | |
| 75-00-3 | Chloroethane | 1.9 | 0.17 | 0.083 | 0.70 | 0.063 | 0.031 | |
| 64-17-5 | Ethanol | 12 | 8.3 | 0.083 | 6.4 | 4.4 | 0.044 | B |
| 67-64-1 | Acetone | 34 | 8.3 | 0.12 | 14 | 3.5 | 0.051 | B |
| 75-69-4 | Trichlorofluoromethane | 1.1 | 0.17 | 0.083 | 0.20 | 0.029 | 0.015 | |
| 107-13-1 | Acrylonitrile | 0.15 | 0.83 | 0.12 | 0.068 | 0.38 | 0.053 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.19 | 0.17 | 0.083 | 0.047 | 0.042 | 0.021 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.58 | 0.83 | 0.12 | 0.19 | 0.27 | 0.040 | J |
| 75-09-2 | Methylene Chloride | 1.3 | 0.83 | 0.083 | 0.37 | 0.24 | 0.024 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 0.19 | 0.17 | 0.083 | 0.060 | 0.053 | 0.026 | |
| 76-13-1 | Trichlorotrifluoroethane | 0.50 | 0.17 | 0.092 | 0.065 | 0.022 | 0.012 | |
| 75-15-0 | Carbon Disulfide | 5.7 | 0.83 | 0.20 | 1.8 | 0.27 | 0.064 | B |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.17 | 0.083 | ND | 0.042 | 0.021 | |
| 75-34-3 | 1,1-Dichloroethane | 0.17 | 0.17 | 0.083 | 0.042 | 0.041 | 0.020 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 2.6 | 0.17 | 0.083 | 0.73 | 0.046 | 0.023 | |
| 108-05-4 | Vinyl Acetate | 3.8 | 8.3 | 0.26 | 1.1 | 2.3 | 0.075 | J, B |
| 78-93-3 | 2-Butanone (MEK) | 15 | 0.83 | 0.083 | 5.2 | 0.28 | 0.028 | B |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.17 | 0.083 | ND | 0.042 | 0.021 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.83 | 0.097 | ND | 0.20 | 0.023 | |
| 67-66-3 | Chloroform | 1,100 | 0.17 | 0.097 | 220 | 0.034 | 0.020 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

1058

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG09B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-024

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00924

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.65

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|-----------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.83 | 0.084 | ND | 0.20 | 0.020 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.17 | 0.083 | ND | 0.041 | 0.020 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.17 | 0.083 | ND | 0.030 | 0.015 | |
| 71-43-2 | Benzene | 2.7 | 0.17 | 0.083 | 0.83 | 0.052 | 0.026 | |
| 56-23-5 | Carbon Tetrachloride | 35 | 0.17 | 0.083 | 5.6 | 0.026 | 0.013 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.83 | 0.083 | ND | 0.20 | 0.020 | |
| 78-87-5 | 1,2-Dichloropropane | 0.22 | 0.17 | 0.083 | 0.048 | 0.036 | 0.018 | |
| 75-27-4 | Bromodichloromethane | 0.75 | 0.17 | 0.083 | 0.11 | 0.025 | 0.012 | |
| 79-01-6 | Trichloroethene | 9.8 | 0.17 | 0.083 | 1.8 | 0.031 | 0.015 | |
| 123-91-1 | 1,4-Dioxane | 0.26 | 0.83 | 0.10 | 0.072 | 0.23 | 0.028 | J |
| 80-62-6 | Methyl Methacrylate | ND | 0.83 | 0.12 | ND | 0.20 | 0.030 | |
| 142-82-5 | n-Heptane | 0.30 | 0.83 | 0.11 | 0.072 | 0.20 | 0.026 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.83 | 0.086 | ND | 0.18 | 0.019 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.32 | 0.83 | 0.092 | 0.079 | 0.20 | 0.023 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.83 | 0.10 | ND | 0.18 | 0.023 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.17 | 0.083 | ND | 0.030 | 0.015 | |
| 108-88-3 | Toluene | 1.3 | 0.83 | 0.083 | 0.35 | 0.22 | 0.022 | |
| 591-78-6 | 2-Hexanone | 0.76 | 0.83 | 0.13 | 0.19 | 0.20 | 0.031 | J |
| 124-48-1 | Dibromochloromethane | 0.12 | 0.17 | 0.11 | 0.015 | 0.019 | 0.013 | J |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.17 | 0.089 | ND | 0.021 | 0.012 | |
| 111-65-9 | n-Octane | ND | 0.83 | 0.083 | ND | 0.18 | 0.018 | |
| 127-18-4 | Tetrachloroethene | 13 | 0.17 | 0.083 | 1.9 | 0.024 | 0.012 | |
| 108-90-7 | Chlorobenzene | 0.13 | 0.17 | 0.084 | 0.029 | 0.036 | 0.018 | J |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG09B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-024

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00924

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.6 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.65

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 0.26 | 0.83 | 0.10 | 0.061 | 0.19 | 0.024 | J |
| 179601-23-1 | m,p-Xylenes | 2.0 | 0.83 | 0.21 | 0.46 | 0.19 | 0.049 | |
| 75-25-2 | Bromoform | ND | 0.83 | 0.13 | ND | 0.080 | 0.012 | |
| 100-42-5 | Styrene | ND | 0.83 | 0.13 | ND | 0.19 | 0.029 | |
| 95-47-6 | o-Xylene | 1.6 | 0.83 | 0.10 | 0.36 | 0.19 | 0.024 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.17 | 0.11 | ND | 0.024 | 0.015 | |
| 98-82-8 | Cumene | 0.10 | 0.83 | 0.092 | 0.021 | 0.17 | 0.019 | J |
| 103-65-1 | n-Propylbenzene | 0.24 | 0.83 | 0.086 | 0.049 | 0.17 | 0.017 | J |
| 622-96-8 | 4-Ethyltoluene | 0.81 | 0.83 | 0.094 | 0.17 | 0.17 | 0.019 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.96 | 0.83 | 0.099 | 0.20 | 0.17 | 0.020 | |
| 98-83-9 | alpha-Methylstyrene | ND | 0.83 | 0.12 | ND | 0.17 | 0.025 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.8 | 0.83 | 0.11 | 0.78 | 0.17 | 0.023 | |
| 100-44-7 | Benzyl Chloride | ND | 0.17 | 0.14 | ND | 0.032 | 0.027 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.41 | 0.17 | 0.10 | 0.068 | 0.027 | 0.017 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.26 | 0.17 | 0.092 | 0.043 | 0.027 | 0.015 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.83 | 0.096 | ND | 0.15 | 0.017 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.23 | 0.83 | 0.11 | 0.042 | 0.15 | 0.020 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.17 | 0.11 | ND | 0.027 | 0.018 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.83 | 0.13 | ND | 0.085 | 0.013 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.17 | 0.13 | ND | 0.022 | 0.017 | |
| 91-20-3 | Naphthalene | 2.4 | 0.33 | 0.12 | 0.46 | 0.063 | 0.023 | |
| 87-68-3 | Hexachlorobutadiene | 0.21 | 0.17 | 0.15 | 0.020 | 0.015 | 0.014 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.33 | 0.083 | ND | 0.060 | 0.015 | |
| 104-51-8 | n-Butylbenzene | 0.77 | 0.33 | 0.083 | 0.14 | 0.060 | 0.015 | M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

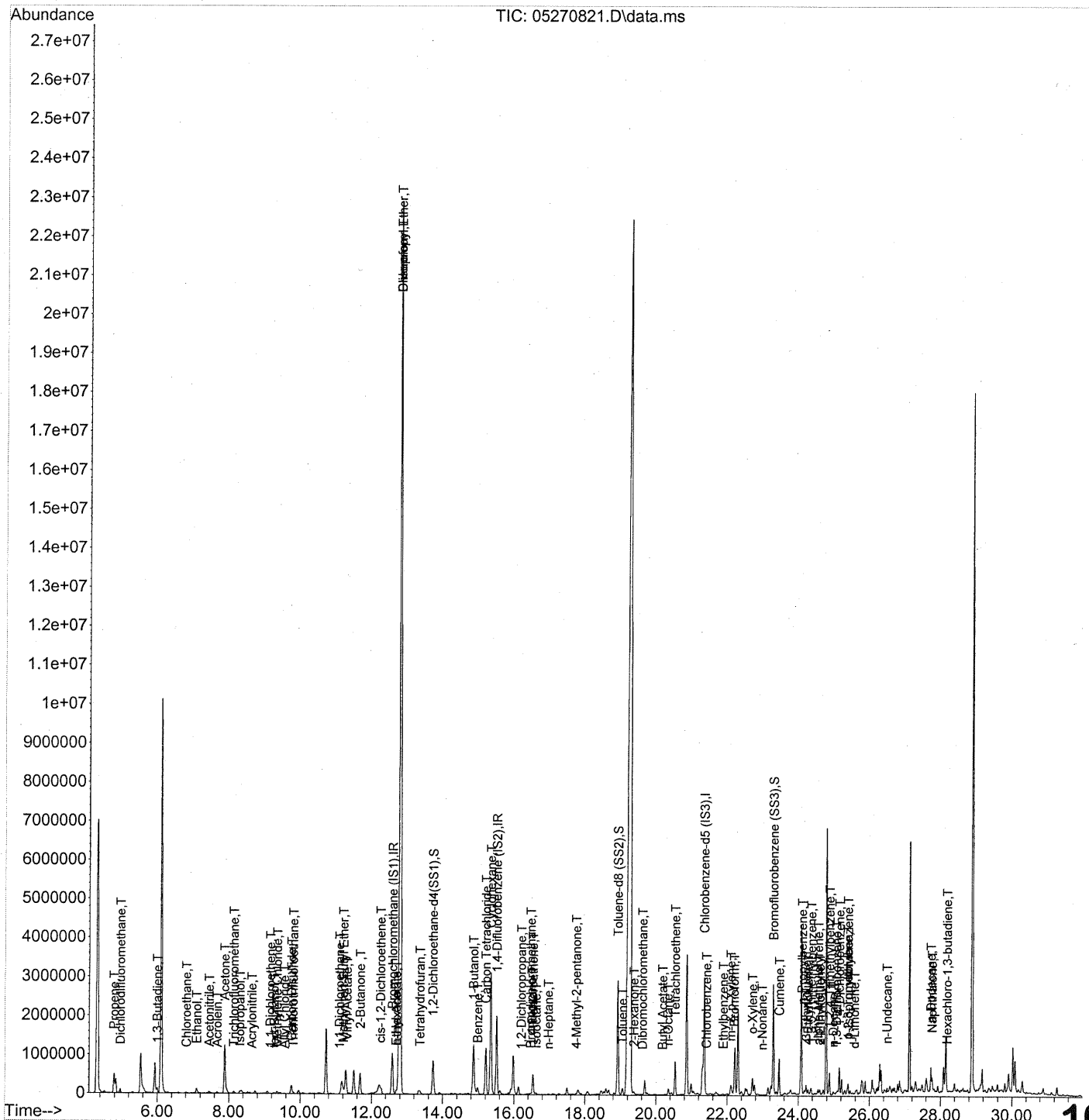
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08 **1060**

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:02:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1061

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:02:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 569671 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2383351 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1142118 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|---------------------------------|--------|------|----------|--------|---------|-----------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 865762 | 21.933 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 87.72% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2476302 | 24.142 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 96.56% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 1067296 | 25.588 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.36% | ✓ |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|---------|-------|--------|
| 2) Propene | 4.79 | 42 | 269399 | 5.988 | ng | # 86 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 108247 | 1.305 | ng | 98 |
| 4) Chloromethane | 5.29 | 50 | 1413 | N.D. | ✓ | |
| 5) Freon 114 | 5.52 | 135 | 2029 | N.D. | ✓ | |
| 6) Vinyl Chloride | 5.73 | 62 | 145 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 5.99 | 54 | 67919 | 1.699 | ng | # 76 |
| 8) Bromomethane | 6.48 | 94 | 1224 | N.D. | ✓ | |
| 9) Chloroethane | 6.82 | 64 | 28736 | 1.126 | ng | 96 |
| 10) Ethanol | 7.10 | 45 | 217321m | 7.256 | ng | |
| 11) Acetonitrile | 7.45 | 41 | 81584 | 0.942 | ng | 94 |
| 12) Acrolein | 7.67 | 56 | 30782 | 1.439 | ng | 96 |
| 13) Acetone | 7.88 | 58 | 637519m | 20.789 | ng | |
| 14) Trichlorofluoromethane | 8.14 | 101 | 49345 | 0.694 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 140407 | 1.436 | ng | 92 |
| 16) Acrylonitrile | 8.65 | 53 | 4199 | 0.090 | ng | 92 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 3534 | 0.113 | ng | # 78 |
| 18) tert-Butanol | 9.27 | 59 | 29134 | 0.350 | ng | 88 |
| 19) Methylene Chloride | 9.36 | 84 | 27008 | 0.788 | ng | # 80 |
| 20) Allyl Chloride | 9.56 | 41 | 5174 | 0.113 | ng | # 44 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 9699 | 0.300 | ng | 87 |
| 22) Carbon Disulfide | 9.76 | 76 | 445854 | 3.428 | ng | 100 |
| 23) trans-1,2-Dichloroethene | 10.81 | 61 | 138 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 6191 | 0.104 | ng | 99 |
| 25) Methyl tert-Butyl Ether | 11.21 | 73 | 157155 | 1.585 | ng | 85 |
| 26) Vinyl Acetate | 11.31 | 86 | 13221 | 2.333 | ng | # 6 |
| 27) 2-Butanone | 11.68 | 72 | 208159 | 9.300 | ng | # 86 |
| 28) cis-1,2-Dichloroethene | 12.26 | 61 | 2483 | 0.051 | ng | NR# 21 |
| 29) Diisopropyl Ether | 12.79 | 87 | 3388353 | 123.545 | ng | NR# 1 |
| 30) Ethyl Acetate | 12.70 | 61 | 12554 | 1.039 | ng | 89 |
| 31) n-Hexane | 12.70 | 57 | 24647 | 0.404 | ng | # 1062 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:02:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------------|------|----------|--------------------|-------|-------------------|
| 32) Chloroform | 12.79 | 83 | 26422165 | 508.637 | ng | 91 <i>see dil</i> |
| 34) Tetrahydrofuran | 13.36 | 72 | 21805 | 1.019 | ng | 94 |
| 35) Ethyl tert-Butyl Ether | 13.49 | 87 | 135 | N.D. | ✓ | |
| 36) 1,2-Dichloroethane | 13.90 | 62 | 2481 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 14.30 | 97 | 1999 | N.D. | ✓ | |
| 39) Isopropyl Acetate | 14.91 | 61 | 438 | N.D. | | |
| 40) 1-Butanol | 14.87 | 56 | 1128956 | 34.462 | ng | 85 |
| 41) Benzene | <u>14.99</u> | 78 | 200928 | <u>1.610</u> | ng | 96 |
| 42) Carbon Tetrachloride | <u>15.21</u> | 117 | 1032490 | <u>21.483</u> | ng | 99 |
| 43) Cyclohexane | 15.36 | 84 | 150548 | 3.101 | ng | # 1 |
| 44) tert-Amyl Methyl Ether | 15.85 | 73 | 60 | N.D. | ✓ | |
| 45) 1,2-Dichloropropane | <u>16.21</u> | 63 | 4506 | <u>0.135</u> | ng | 96 |
| 46) Bromodichloromethane | <u>16.47</u> | 83 | 19286 | <u>0.457</u> | ng | 92 |
| 47) Trichloroethene | <u>16.53</u> | 130 | 226822 | <u>5.925</u> | ng | 100 |
| 48) 1,4-Dioxane | <u>16.50</u> | 88 | 3690 | <u>0.157</u> | ng | 98 |
| 49) Isooctane | 16.62 | 57 | 46613 | 0.326 | ng | 60 |
| 50) Methyl Methacrylate | 16.85 | 100 | 116 | N.D. | ✓ | |
| 51) n-Heptane | <u>16.97</u> | 71 | 5944 | <u>0.179</u> | ng | # 80 |
| 52) cis-1,3-Dichloropropene | 17.81 | 75 | 2412 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | <u>17.76</u> | 58 | 6462m | <u>0.195</u> | ng | |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 199 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.68 | 97 | 559 | N.D. | ✓ | |
| 58) Toluene | <u>19.06</u> | 91 | 111666 | <u>0.801</u> | ng | 98 |
| 59) 2-Hexanone | <u>19.38</u> | 43 | 44412 | <u>0.462</u> | ng | 81 |
| 60) Dibromochloromethane | <u>19.62</u> | 129 | 2827 | <u>0.075</u> | ng | 97 |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.19 | 43 | 6269 | 0.064 | ng | NR NOT 86 |
| 63) n-Octane | 20.34 | 57 | 4657 | 0.151 | ng | NR 91 |
| 64) Tetrachloroethene | <u>20.54</u> | 166 | 319970 | <u>7.755</u> | ng | 98 |
| 65) Chlorobenzene | <u>21.42</u> | 112 | 7490 | <u>0.080</u> | ng | 98 |
| 66) Ethylbenzene | <u>21.89</u> | 91 | 25643 | <u>0.160</u> | ng | 93 |
| 67) m- & p-Xylene | <u>22.10</u> | 91 | 130779 | <u>1.223</u> | ng | 93 |
| 68) Bromoform | 22.20 | 173 | 1417 | 0.051 | ng | 87 |
| 69) Styrene | 22.57 | 104 | 4670 | N.D. | ✓ | |
| 70) o-Xylene | <u>22.71</u> | 91 | 109682 | <u>0.950</u> | ng | 96 |
| 71) n-Nonane | 22.98 | 43 | 5707 | 0.070 | ng | 90 |
| 72) 1,1,2,2-Tetrachloroethane | 22.72 | 83 | 1310 | N.D. | ✓ | |
| 74) Cumene | <u>23.46</u> | 105 | 9653 | <u>0.063</u> | ng | 99 |
| 75) alpha-Pinene | 23.95 | 93 | 3472 | N.D. | | |
| 76) n-Propylbenzene | <u>24.10</u> | 91 | 28710 | <u>0.147</u> | ng | # 86 |
| 77) 3-Ethyltoluene | 24.22 | 105 | 163731 | 1.001 | ng | 99 |
| 78) 4-Ethyltoluene | <u>24.28</u> | 105 | 75199 | <u>0.493</u> | ng | 99 |
| 79) 1,3,5-Trimethylbenzene | <u>24.37</u> | 105 | 80346 | <u>0.583</u> | ng | 91063 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 12:02:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

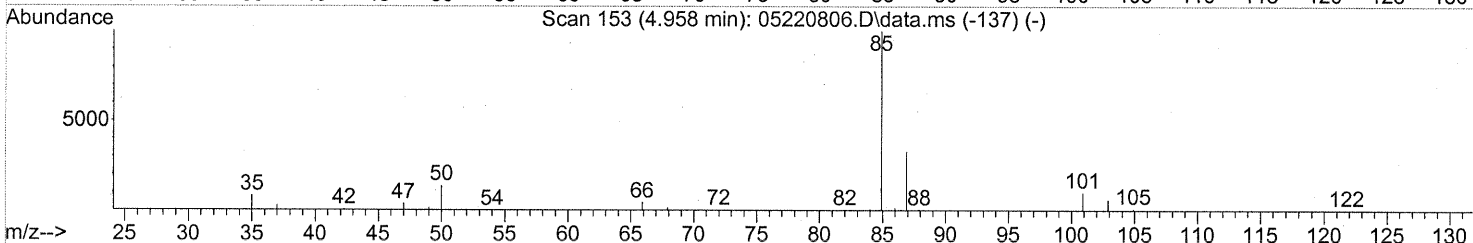
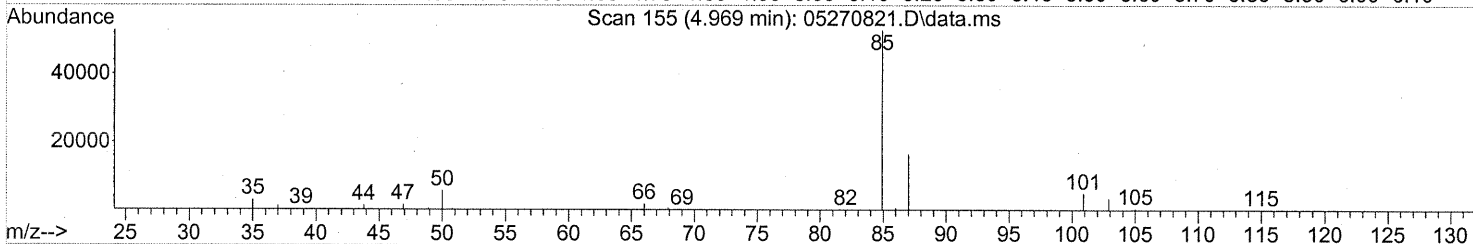
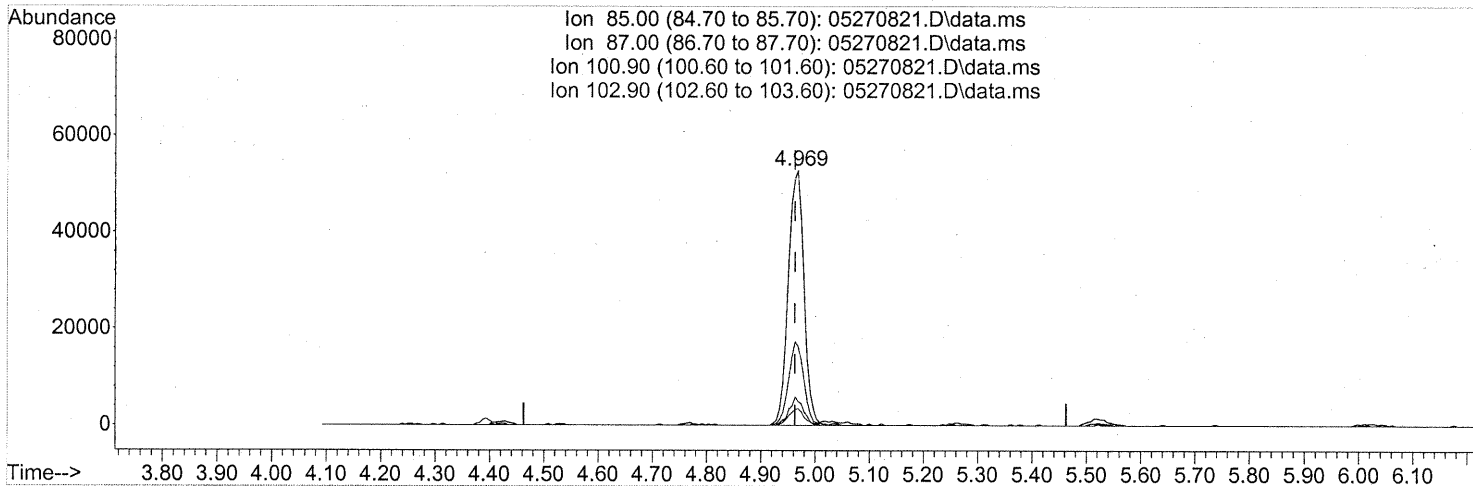
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------------|------|----------|------------------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 5290 | 0.071 | ng | # 67 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 87540 | 0.528 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | <u>24.88</u> | 105 | 324750 | <u>2.315</u> | ng | 88 |
| 83) n-Decane | 24.98 | 57 | 18759 | 0.243 | ng | 74 |
| 84) Benzyl Chloride | 25.05 | 91 | 895 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | <u>25.07</u> | 146 | 21688 | <u>0.247</u> | ng | 98 |
| 86) 1,4-Dichlorobenzene | <u>25.16</u> | 146 | 13237 | <u>0.156</u> | ng | 95 |
| 87) sec-Butylbenzene | 25.21 | 105 | 8115 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | <u>25.40</u> | 119 | 20881 | <u>0.141</u> | ng | # 30 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 140037 | 1.020 | ng | 87 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 2555 | N.D. | ✓ | |
| 91) d-Limonene | 25.58 | 68 | 6219 | 0.111 | ng | # 65 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.24 | 157 | 1287 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 46092 | 0.570 | ng | 79 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1741 | N.D. | ✓ | |
| 95) Naphthalene | <u>27.77</u> | 128 | 272104 | <u>1.470</u> | ng | 96 |
| 96) n-Dodecane | 27.73 | 57 | 206570 | 2.571 | ng | 80 |
| 97) Hexachloro-1,3-butadiene | <u>28.19</u> | 225 | 5271 | <u>0.130</u> | ng | 94 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.31ng

response 108247

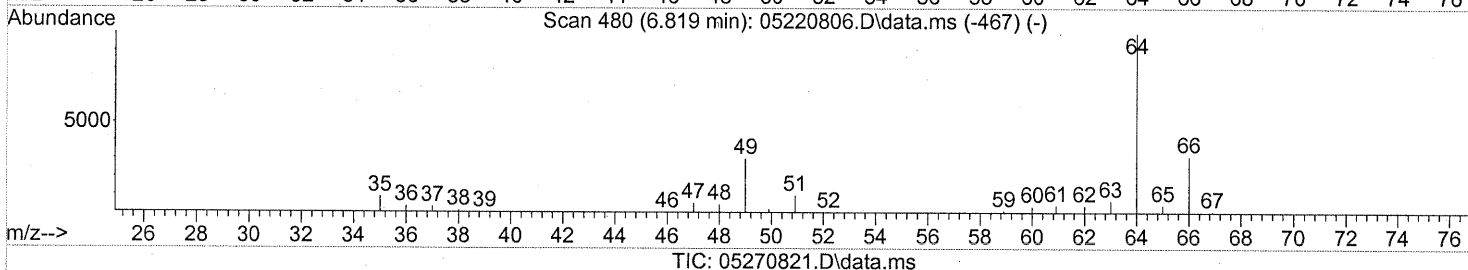
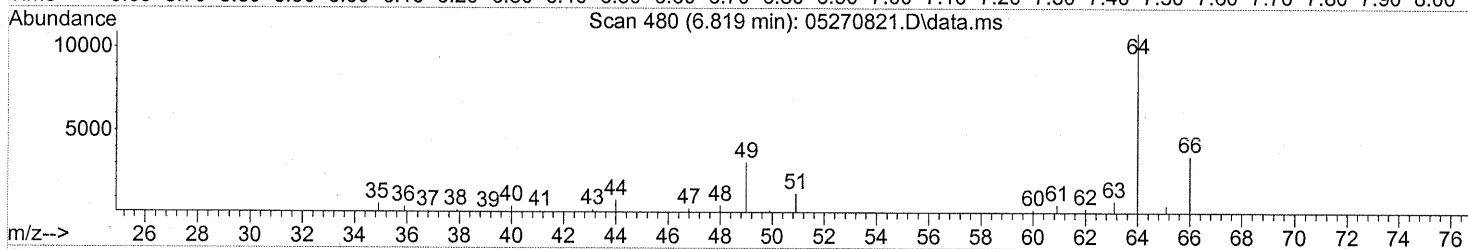
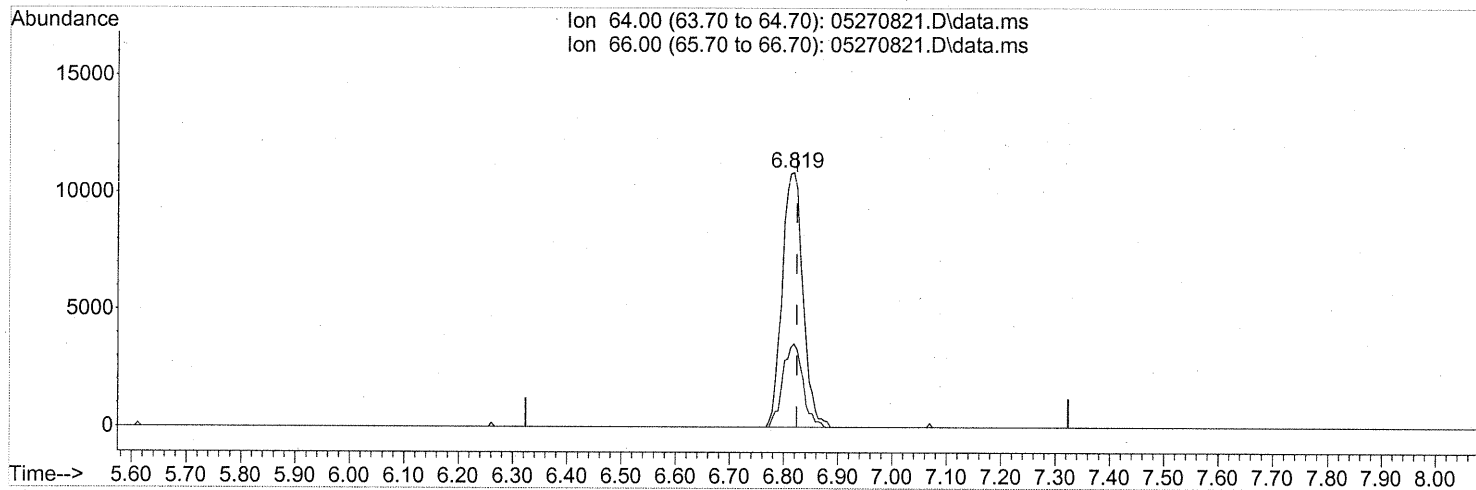
| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 31.16 |
| 100.90 | 9.30 | 9.78 |
| 102.90 | 6.00 | 6.07 |

1065

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(9) Chloroethane (T)

6.819min (-0.006) 1.13ng

response 28736

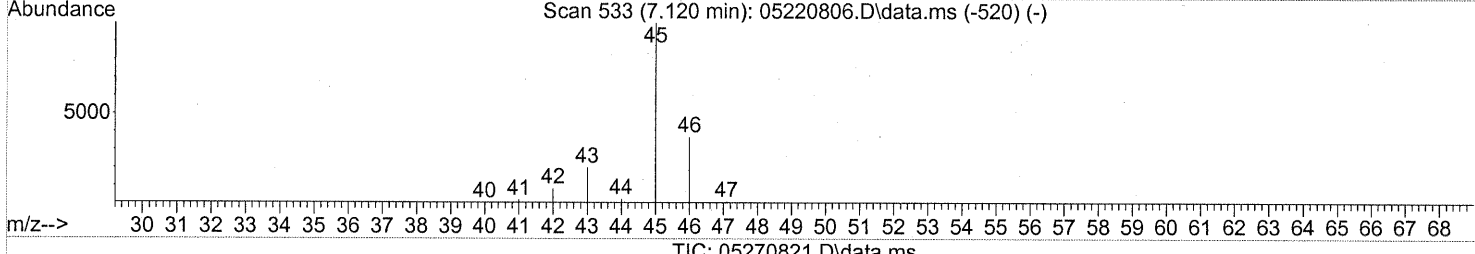
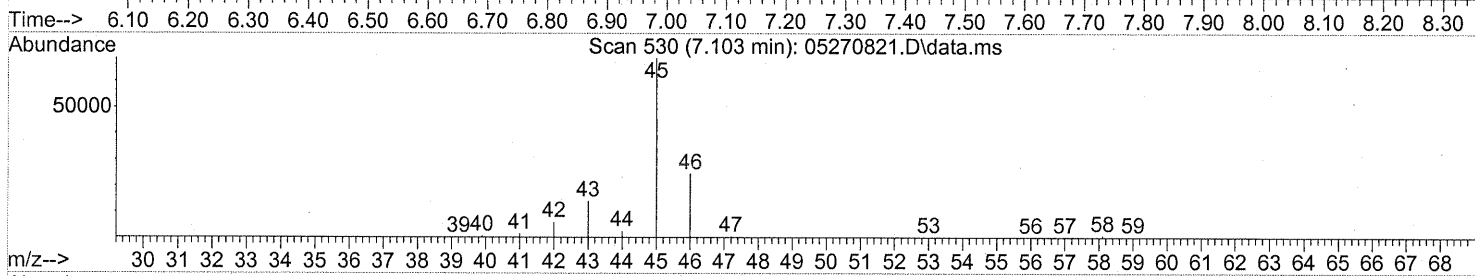
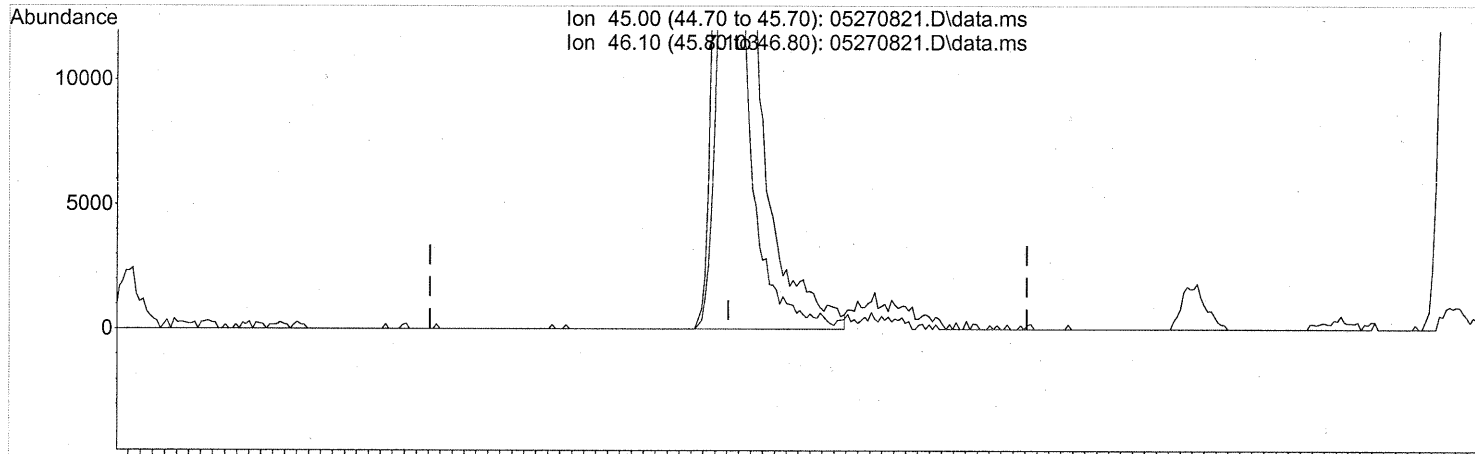
| Ion | Exp% | Act% |
|-------|-------|-------|
| 64.00 | 100 | 100 |
| 66.00 | 29.60 | 31.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1066

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (+0.000) 6.98ng

response 209143

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 38.69 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

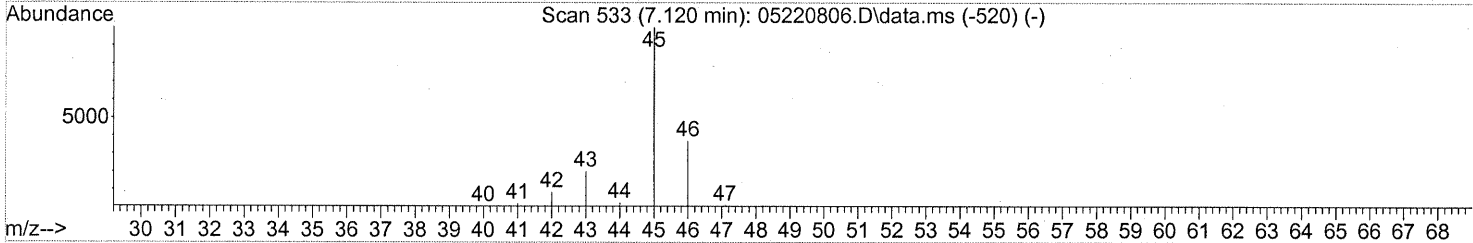
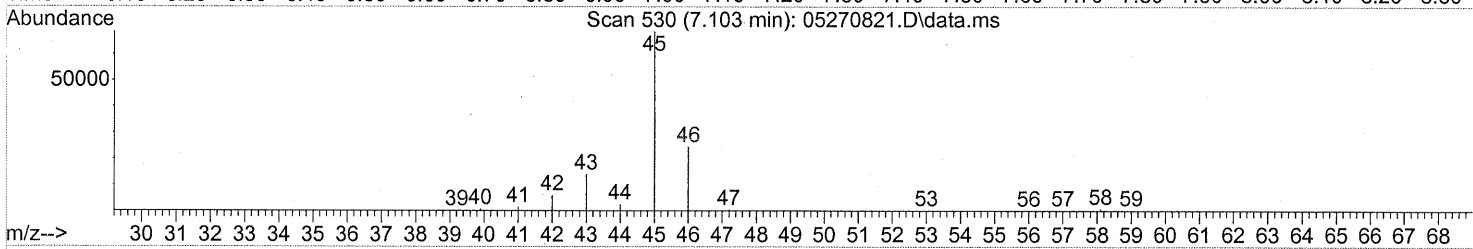
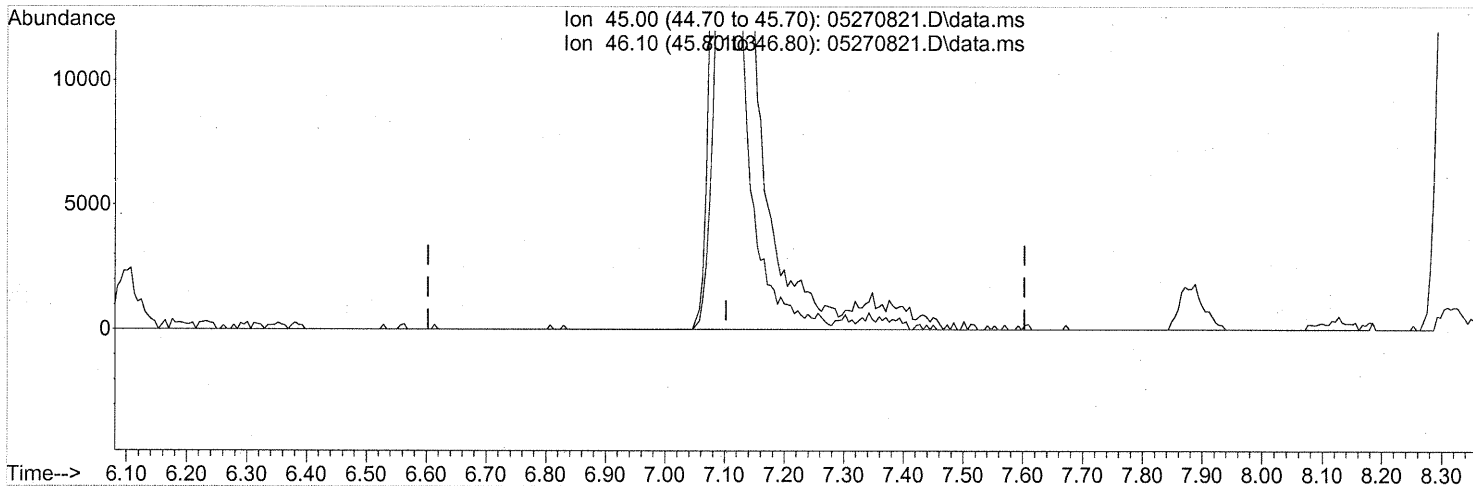
split peaks

1067

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(10) Ethanol (T)

7.103min (+0.000) 7.26ng m

response 217321

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.24 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

int. whole peaks

WA 5/27/08

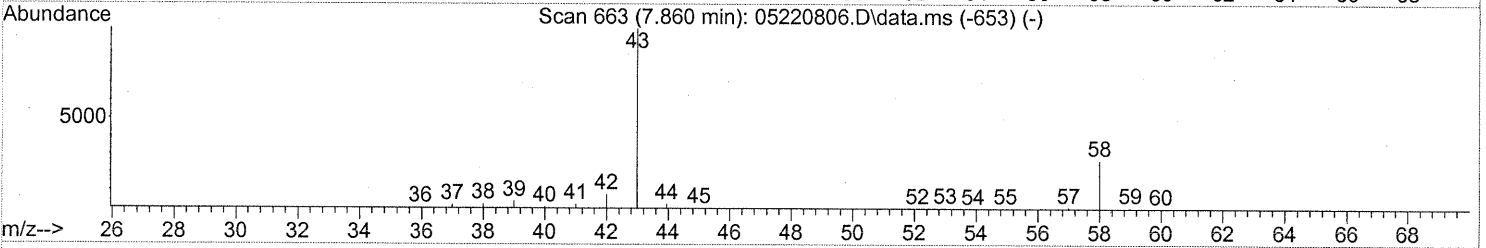
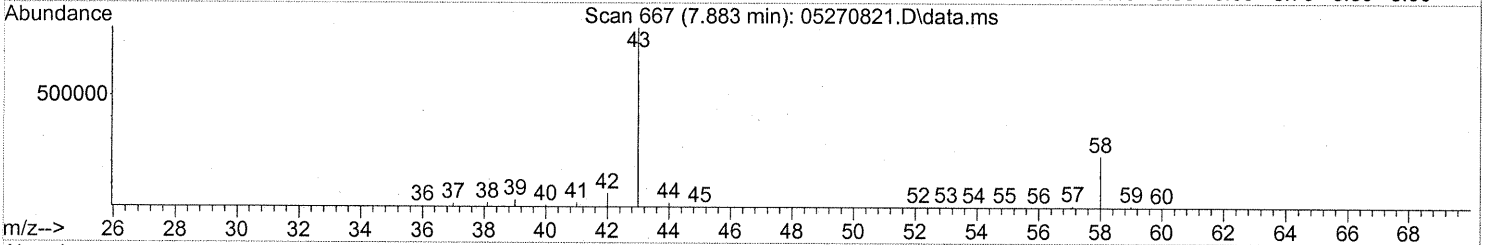
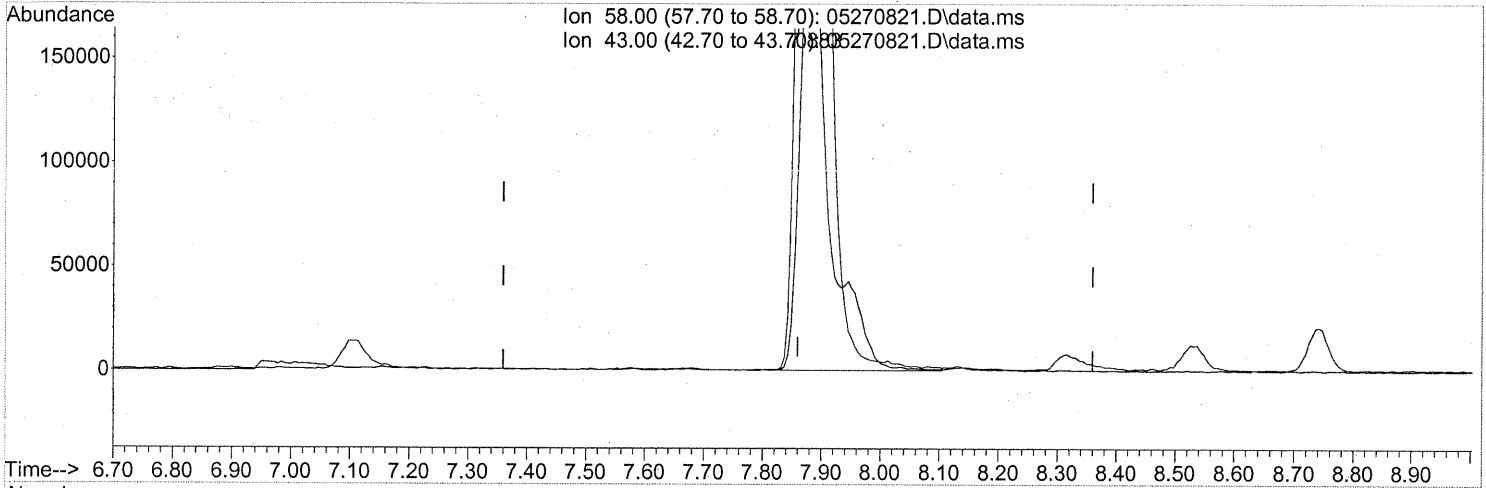
P 6/2/08

1068

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(13) Acetone (T)
 7.883min (+0.023) 24.00ng
 response 735984

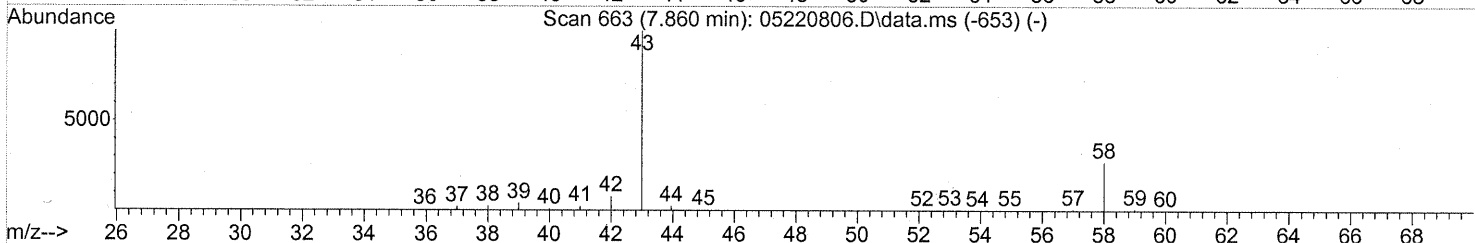
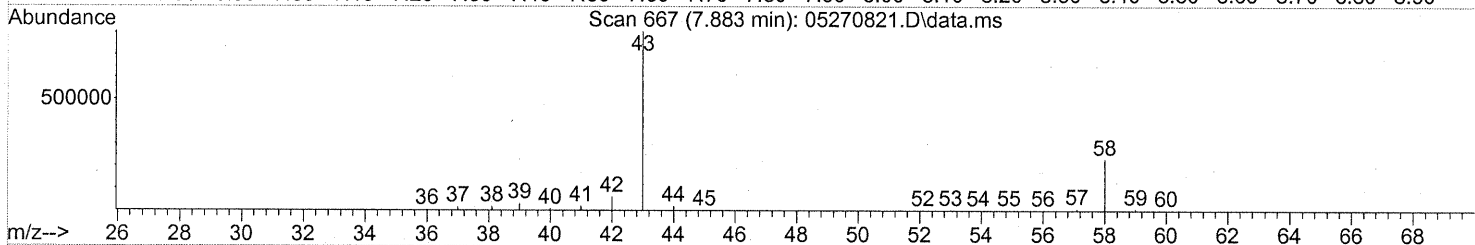
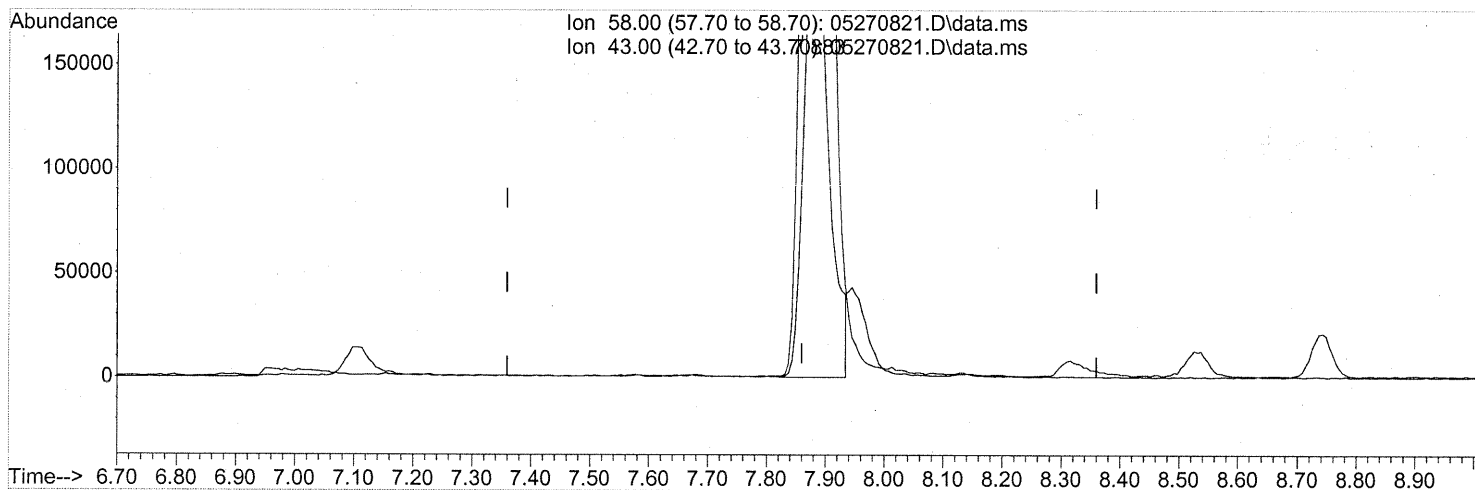
| Ion | Exp% | Act% |
|-------|--------|--------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 296.28 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

107. interf-shoulder

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)
 7.883min (+0.023) 20.79ng m
 response 637519

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 342.04# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

no shoulder

5/31/08

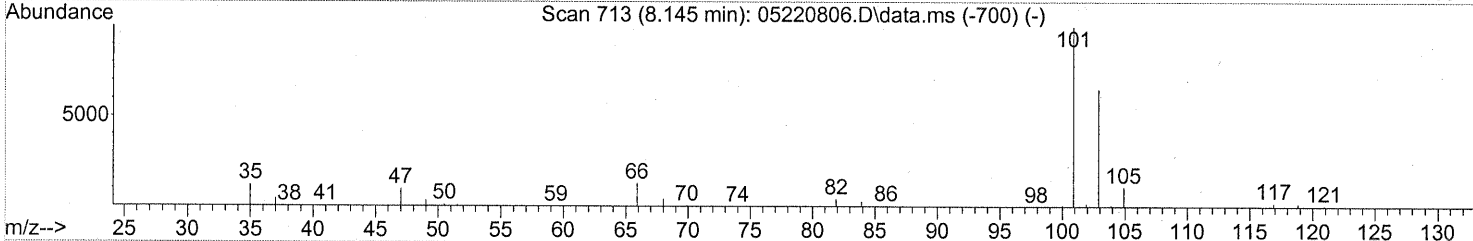
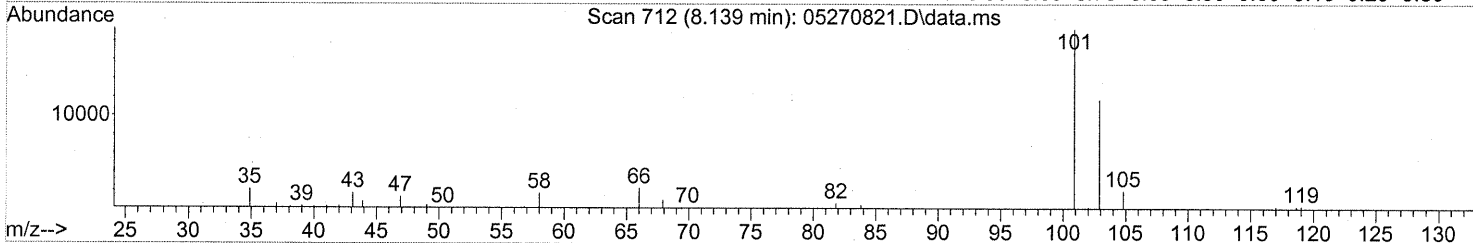
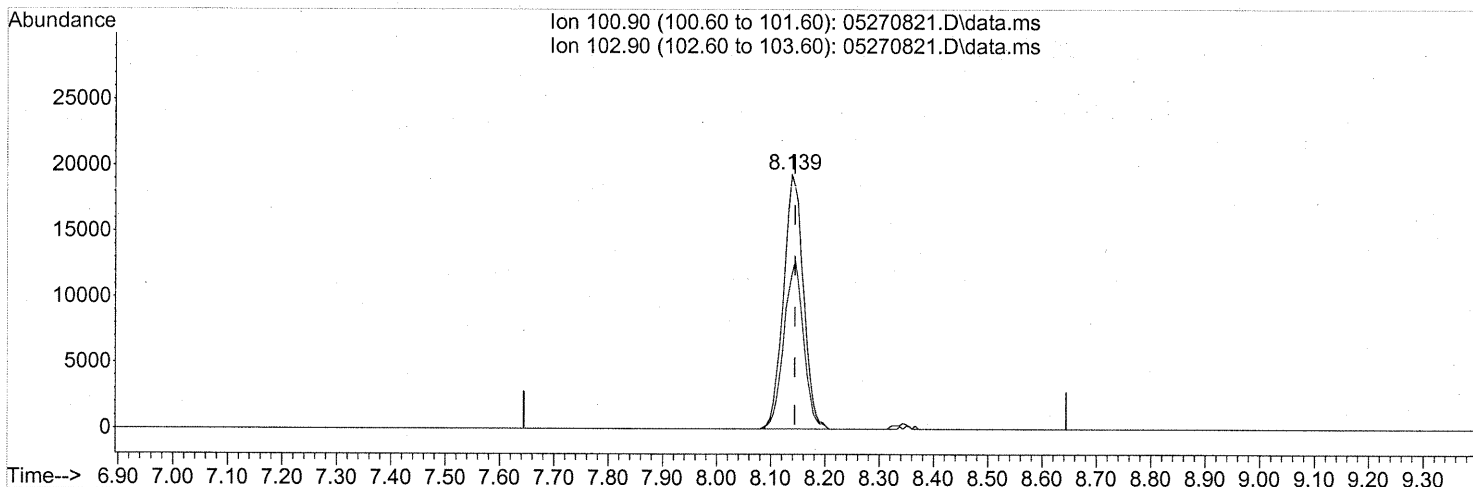
P 06/02/08

1070

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(14) Trichlorofluoromethane (T)

8.139min (-0.006) 0.69ng

response 49345

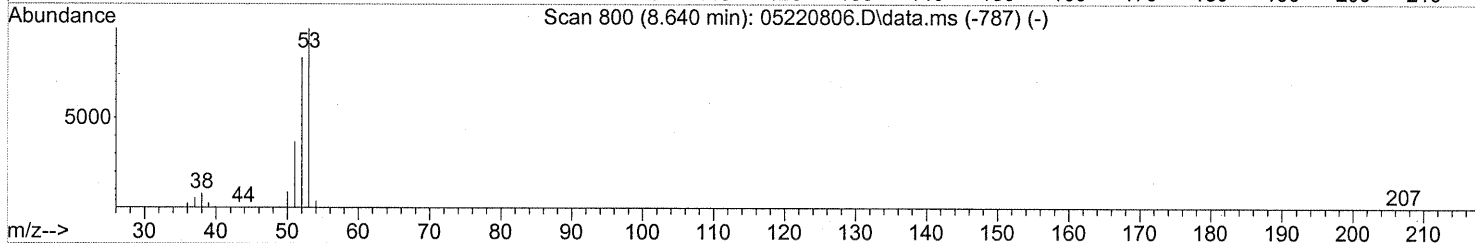
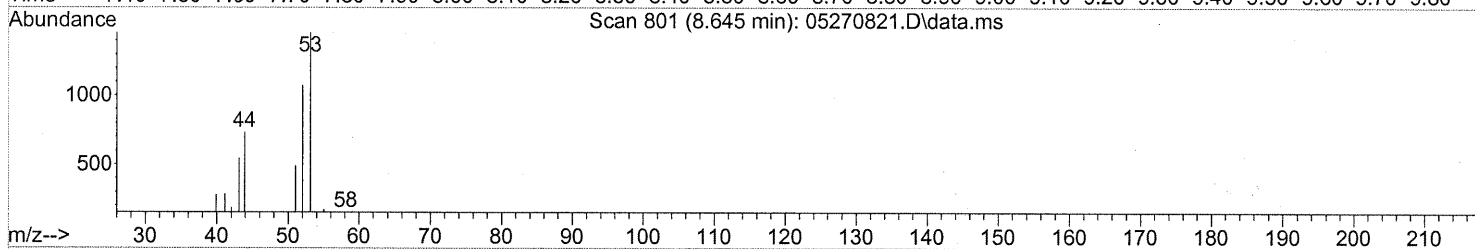
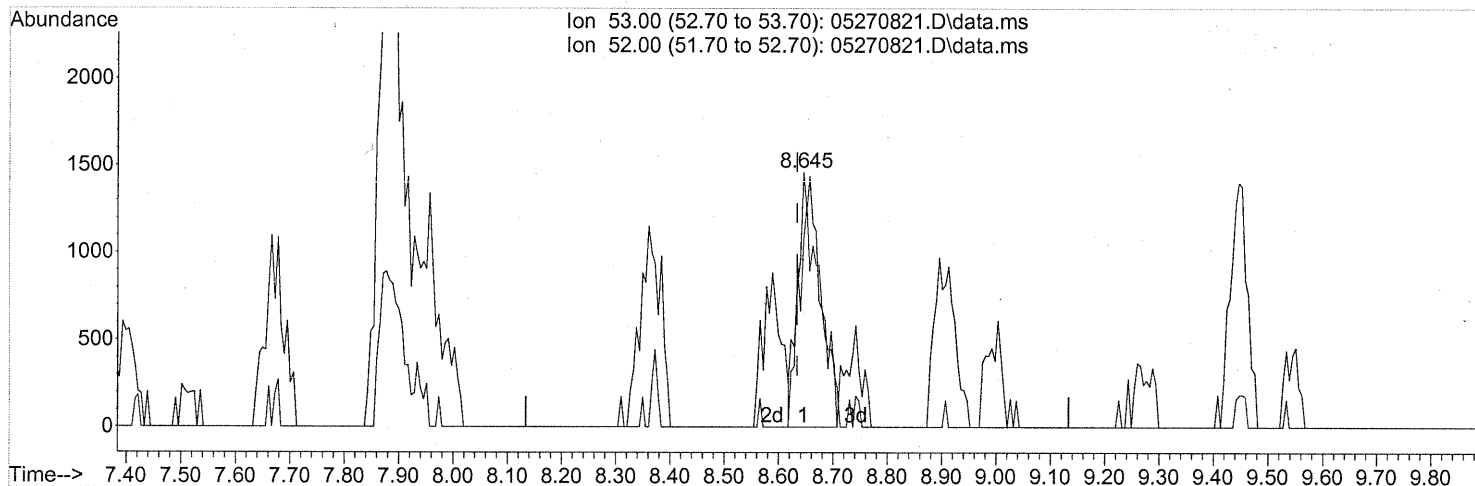
| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 64.85 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1071

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(16) Acrylonitrile (T)
 8.645min (+0.011) 0.09ng
 response 4199

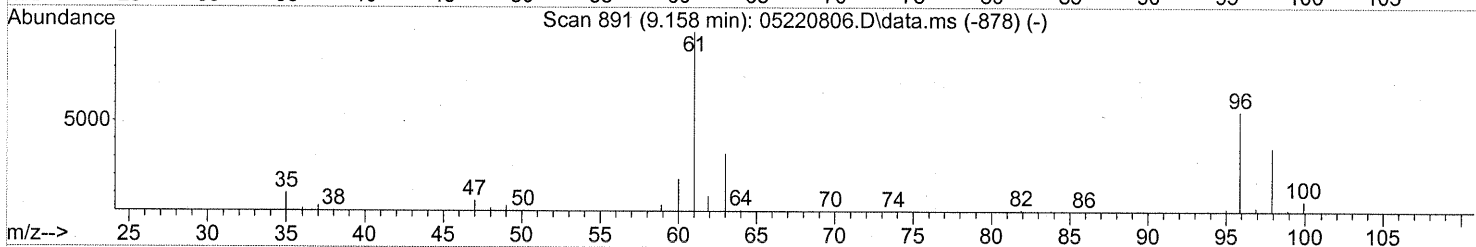
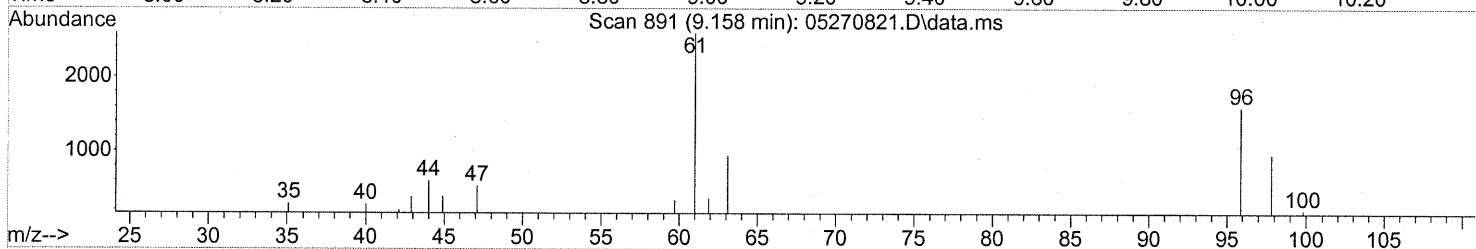
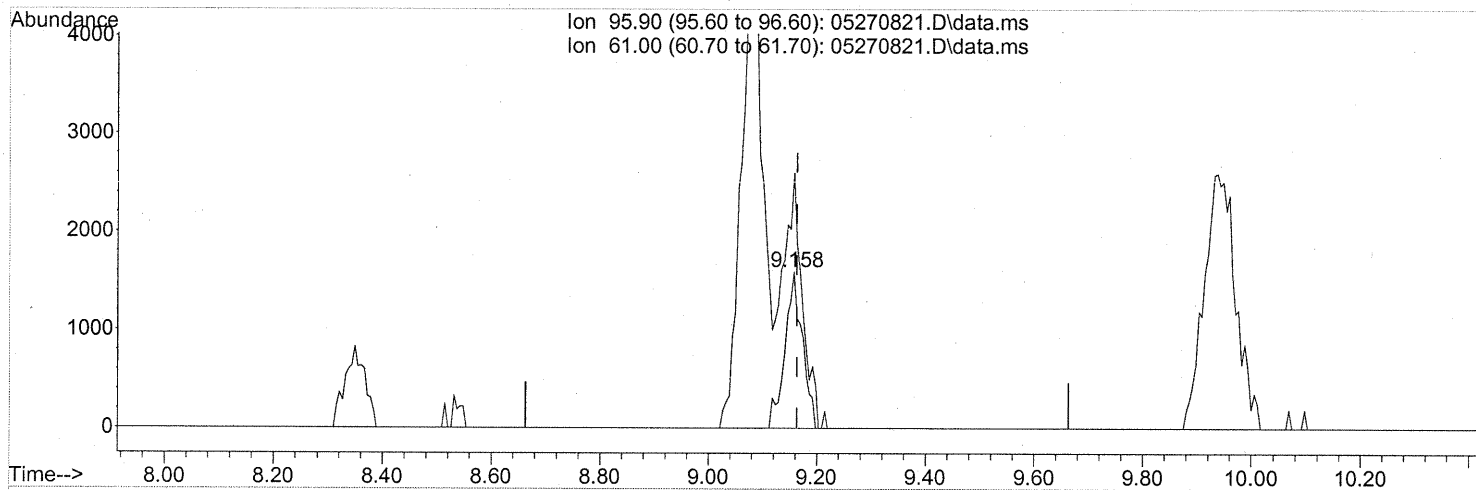
| Ion | Exp% | Act% |
|-------|-------|-------|
| 53.00 | 100 | 100 |
| 52.00 | 82.50 | 90.02 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1072

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 0.11ng

response 3534

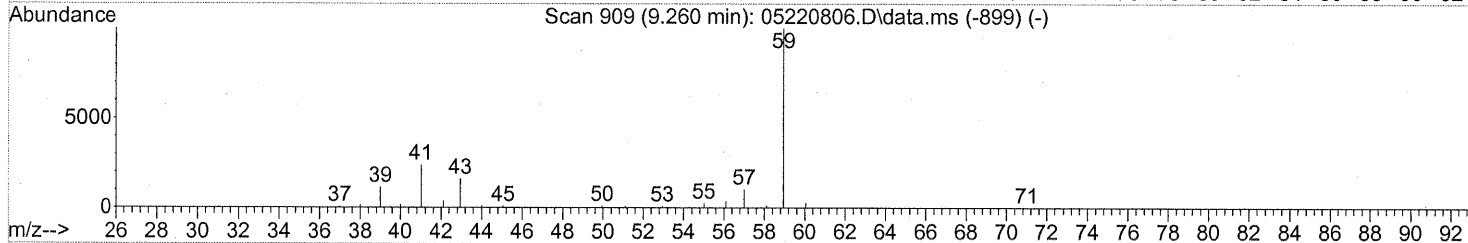
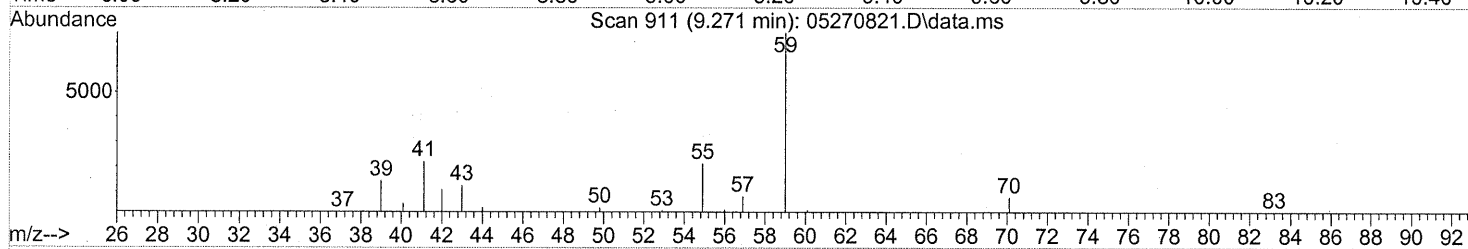
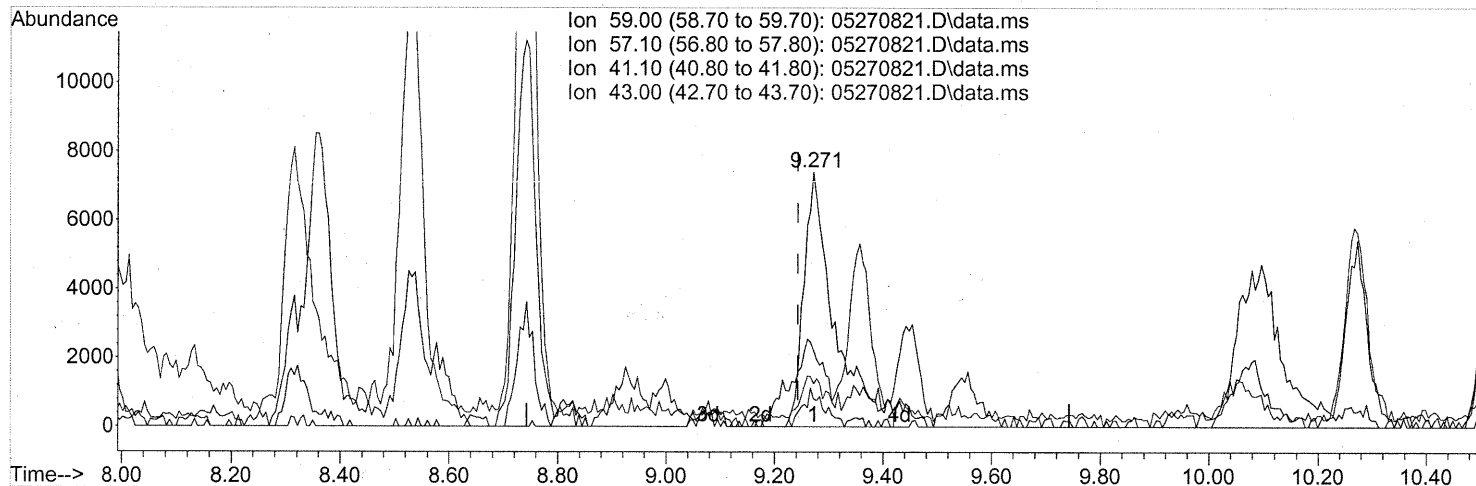
| Ion | Exp% | Act% |
|-------|--------|---------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 175.61# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1073

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(18) tert-Butanol (T)
 9.271min (+0.029) 0.35ng
 response 29134

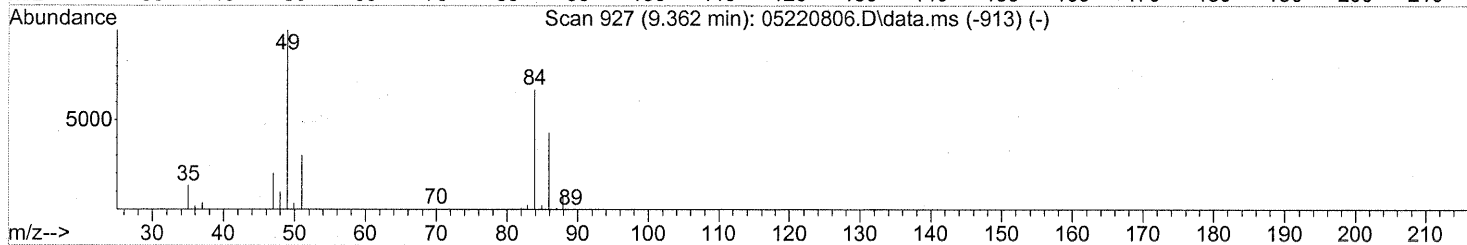
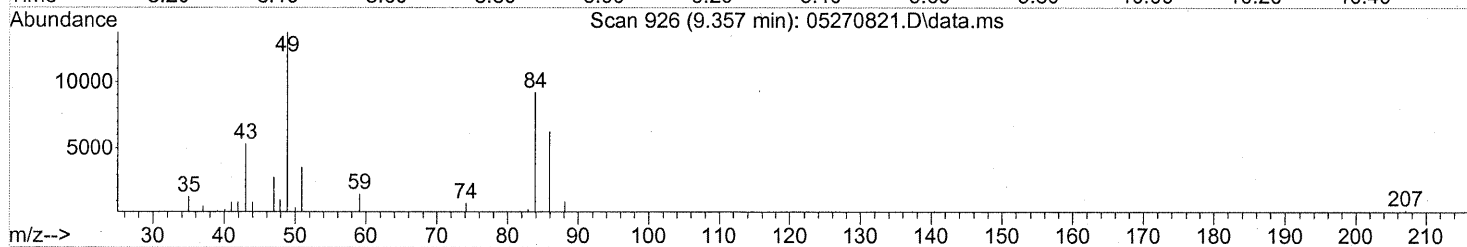
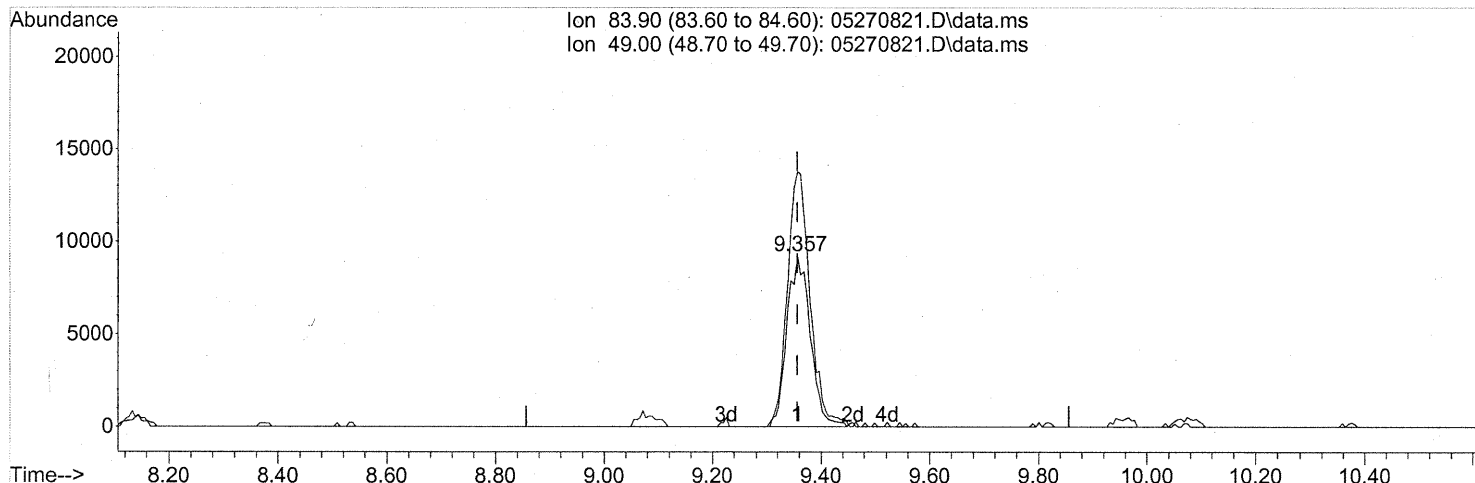
| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 10.26 |
| 41.10 | 20.10 | 31.86 |
| 43.00 | 12.30 | 12.11 |

1074

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(19) Methylene Chloride (T)

9.357min (+0.000) 0.79ng

response 27008

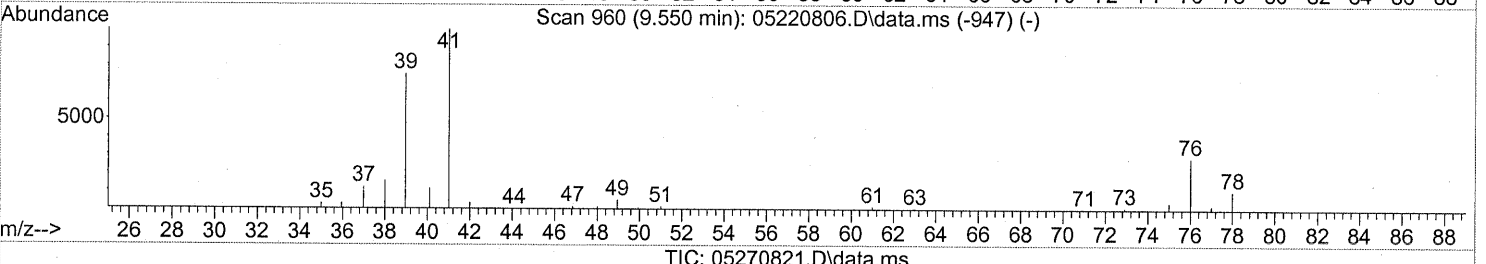
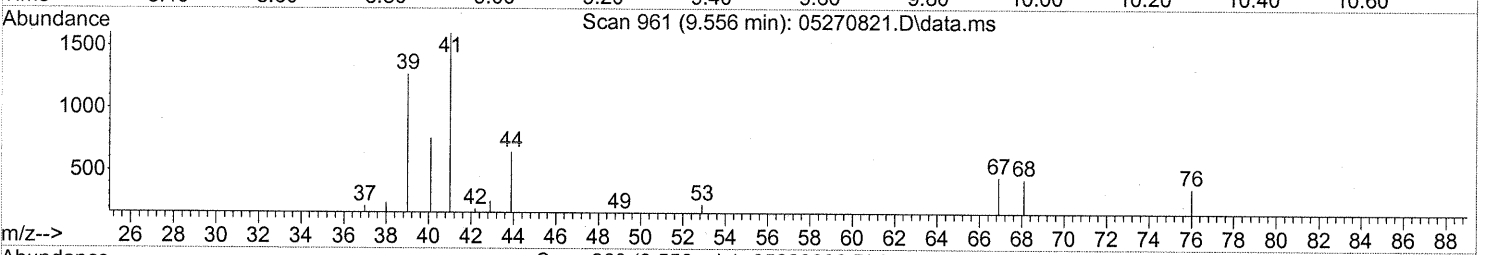
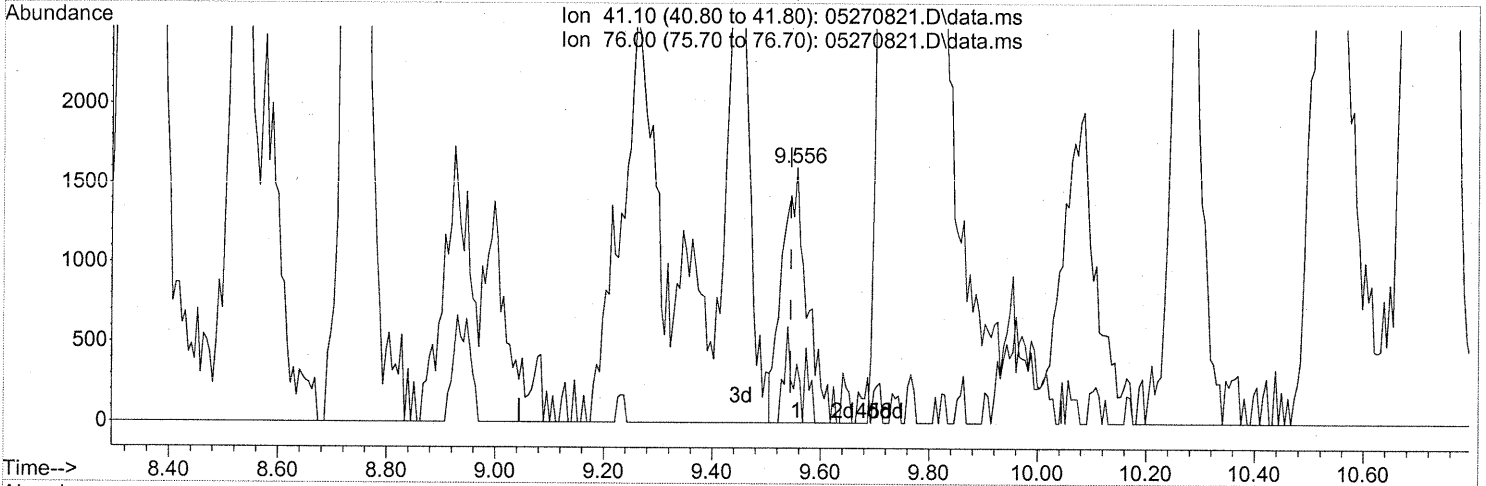
| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 144.69# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1075

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(20) Allyl Chloride (T)
 9.556min (+0.011) 0.11ng
 response 5174

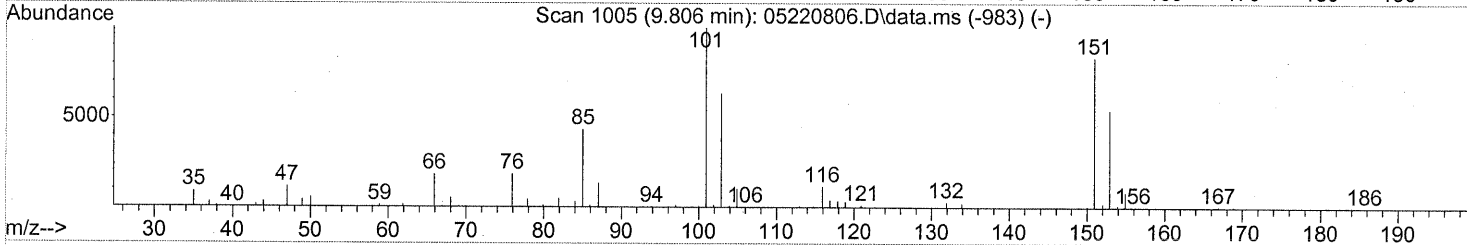
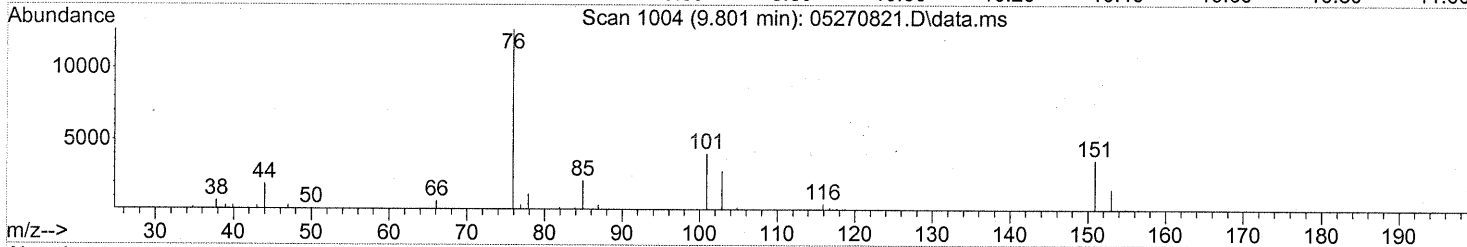
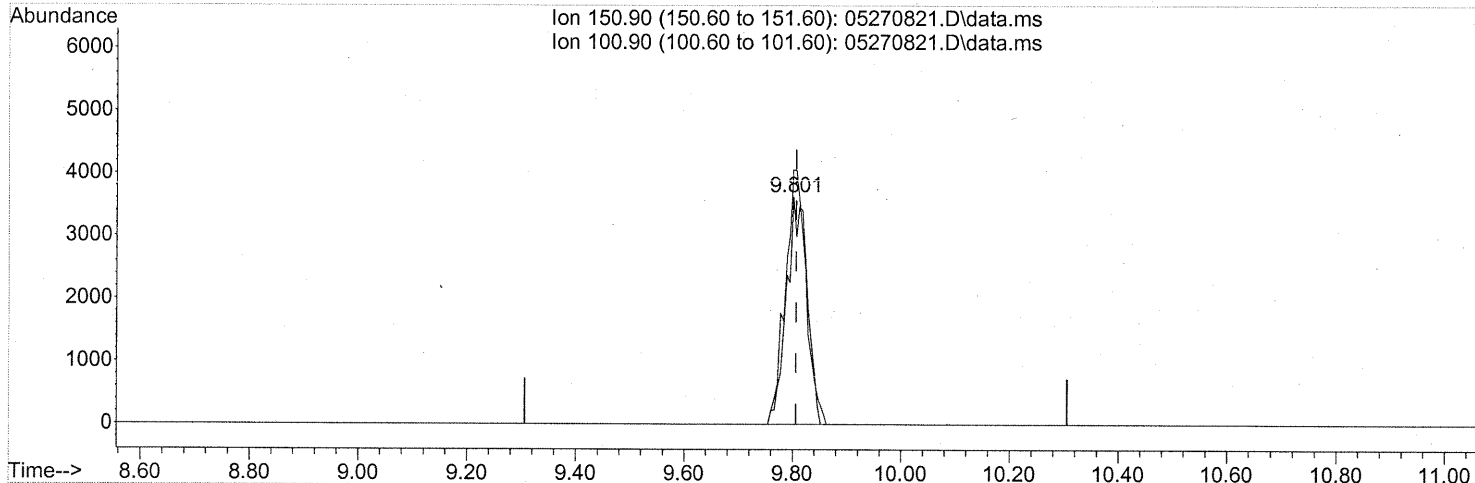
| Ion | Exp% | Act% |
|-------|-------|-------|
| 41.10 | 100 | 100 |
| 76.00 | 30.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1076

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.801min (-0.006) 0.30ng

response 9699

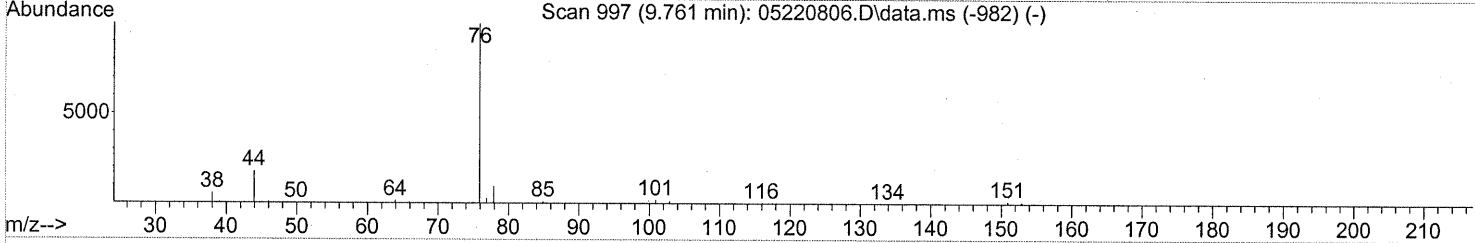
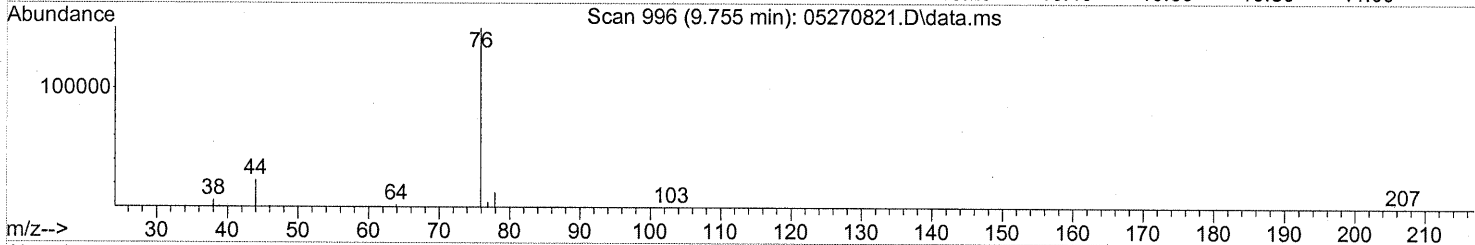
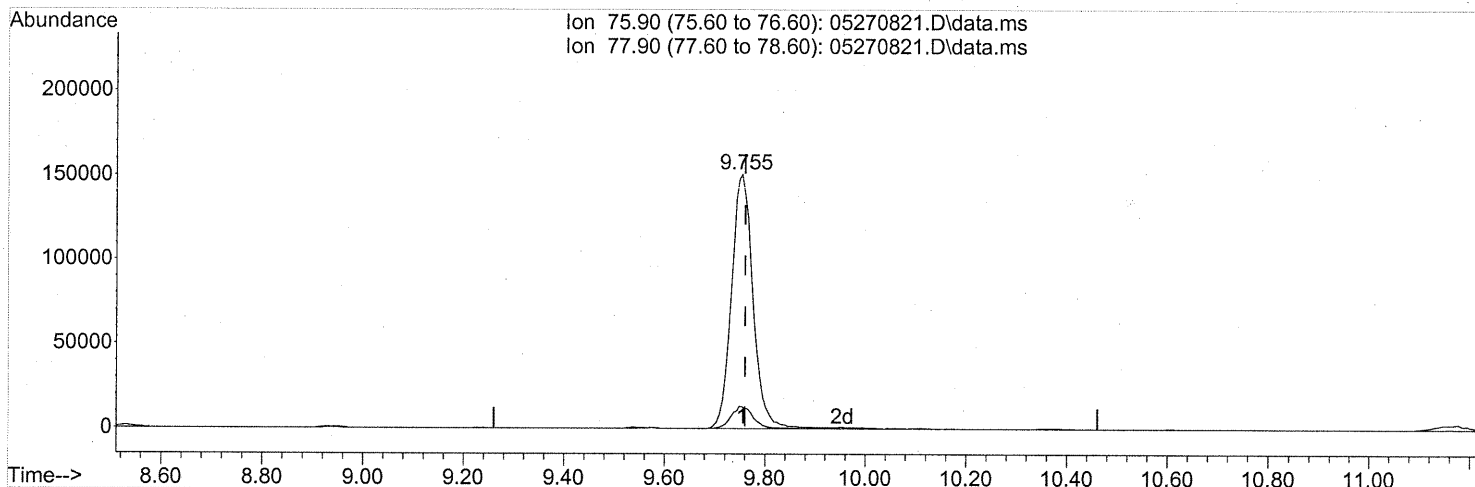
| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 111.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1077

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 3.43ng

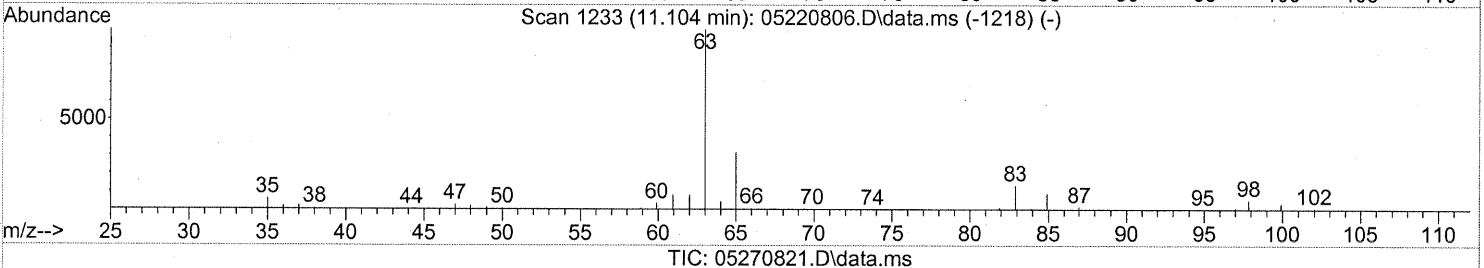
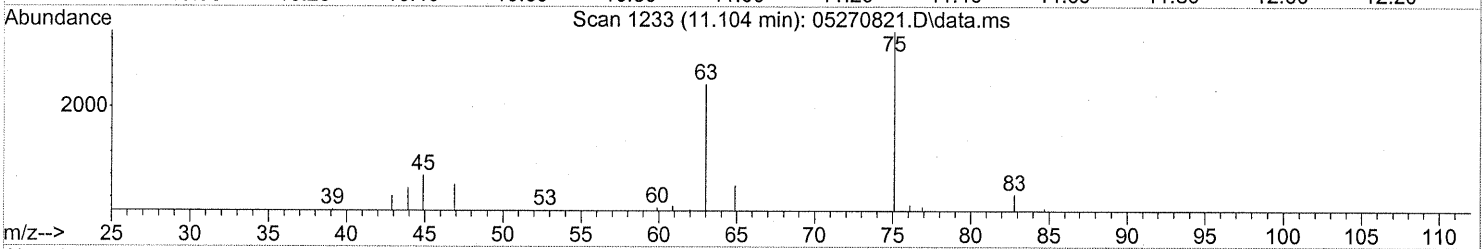
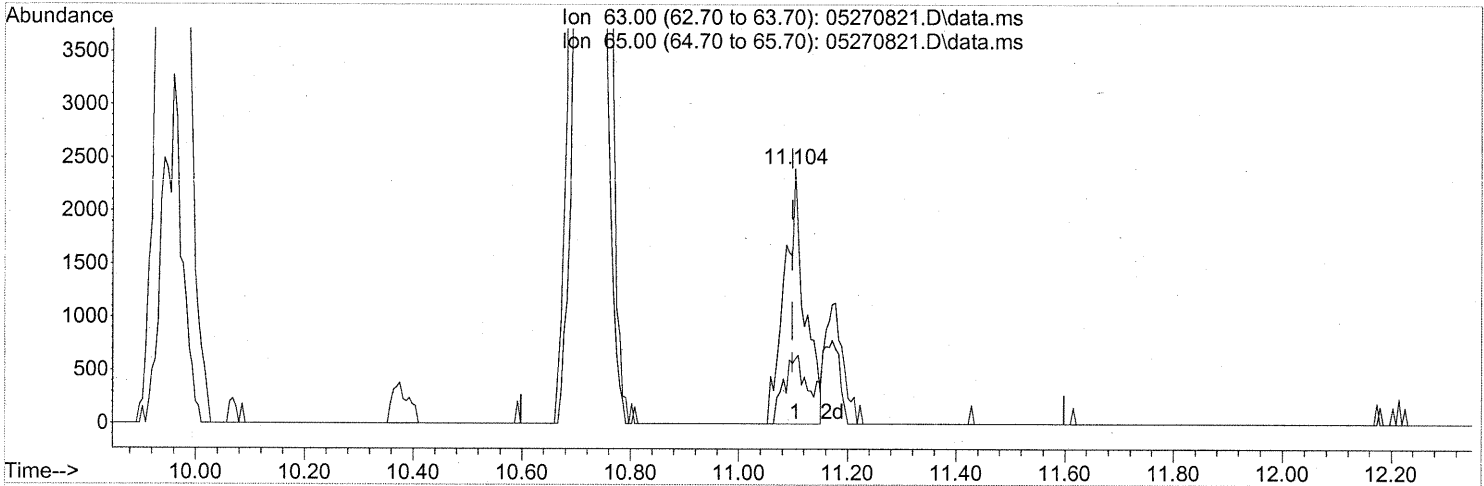
response 445854

| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 8.75 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.10ng

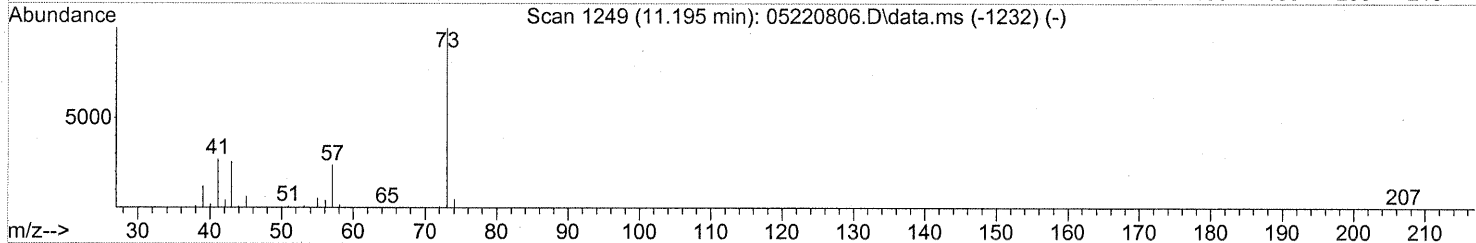
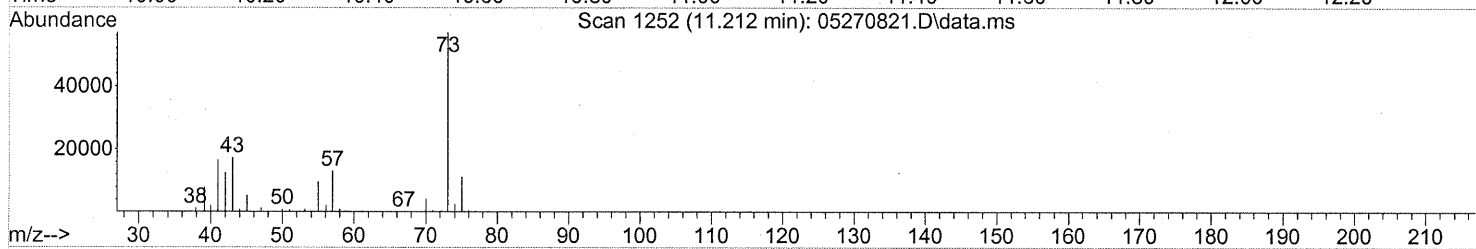
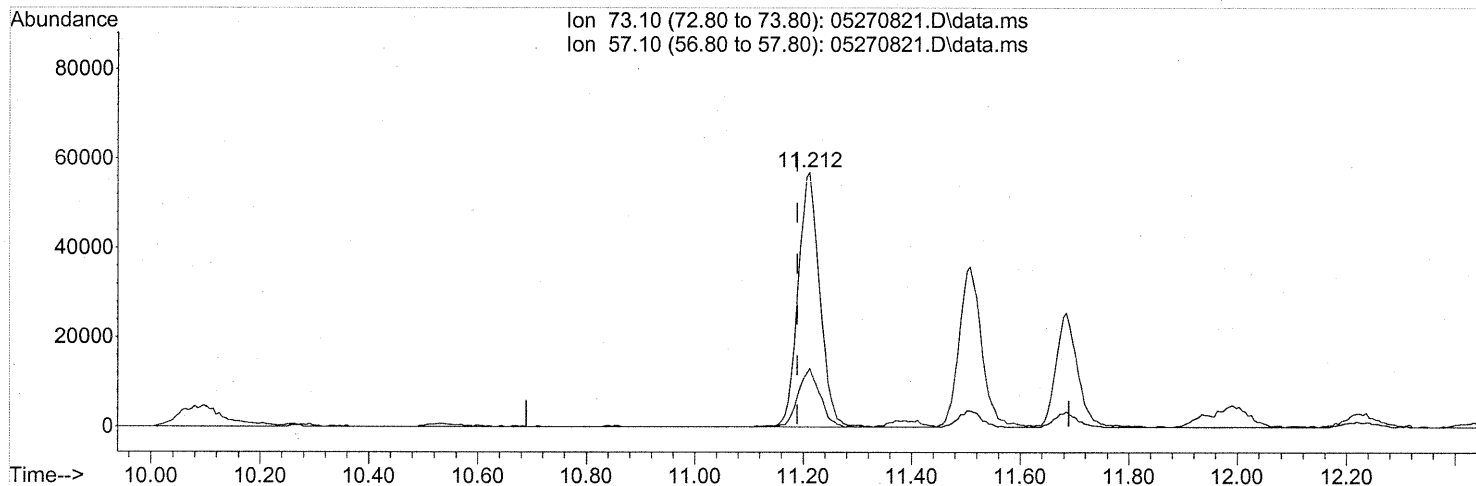
response 6191

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 65.00 | 29.10 | 29.54 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.212min (+0.023) 1.58ng

response 157155

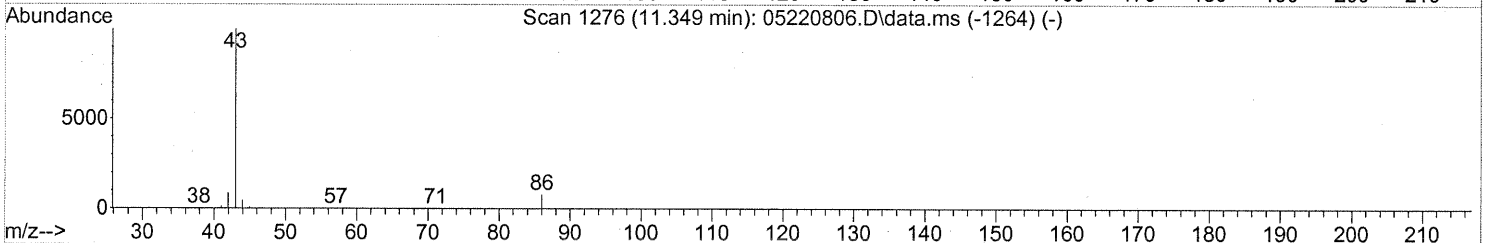
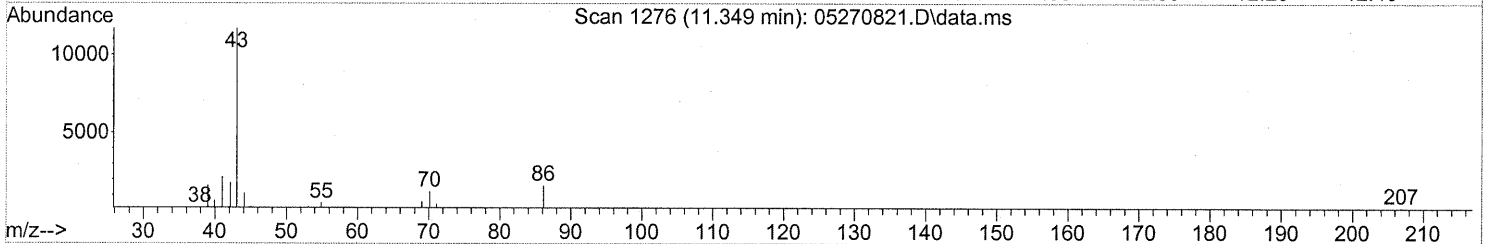
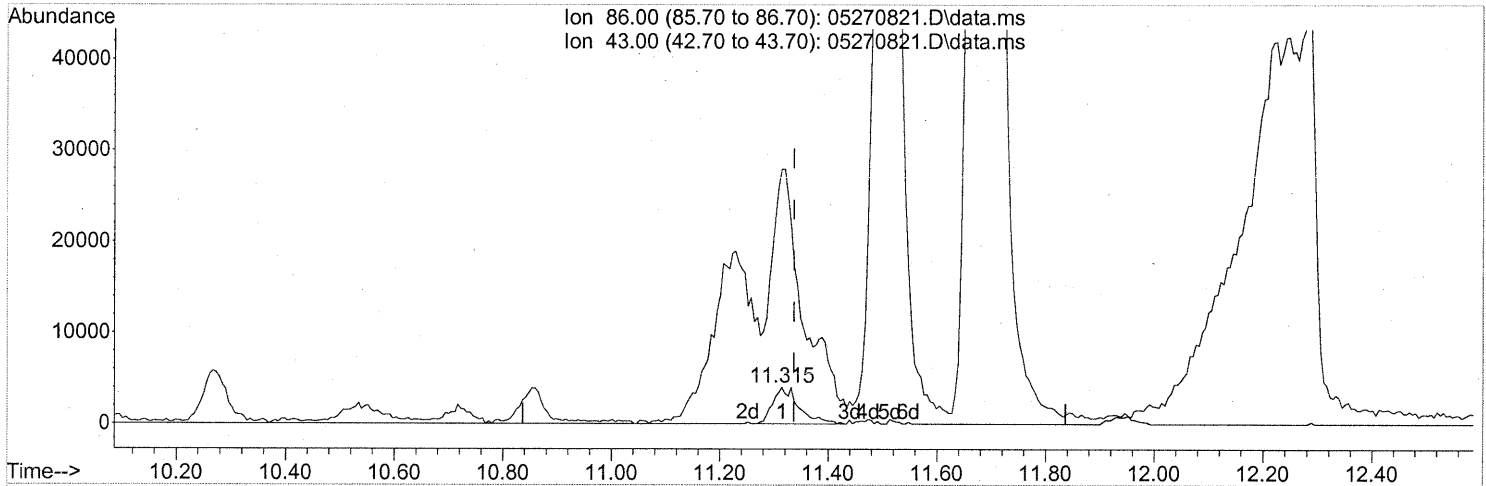
| Ion | Exp% | Act% |
|-------|-------|-------|
| 73.10 | 100 | 100 |
| 57.10 | 31.40 | 22.91 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1080

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(26) Vinyl Acetate (T)

11.315min (-0.022) 2.33ng

response 13221

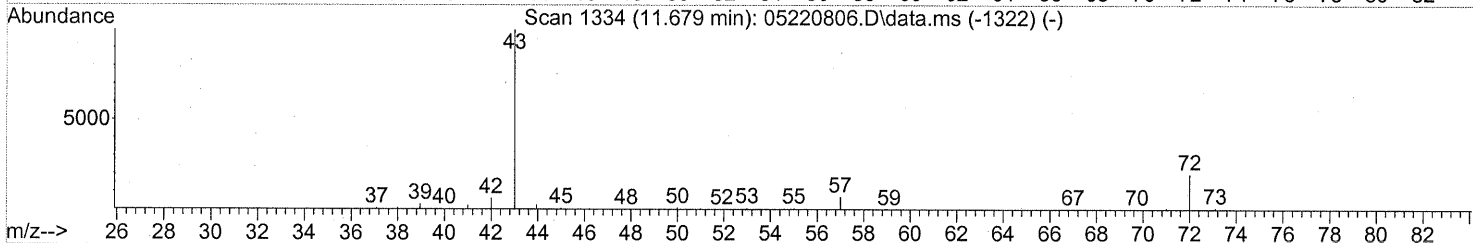
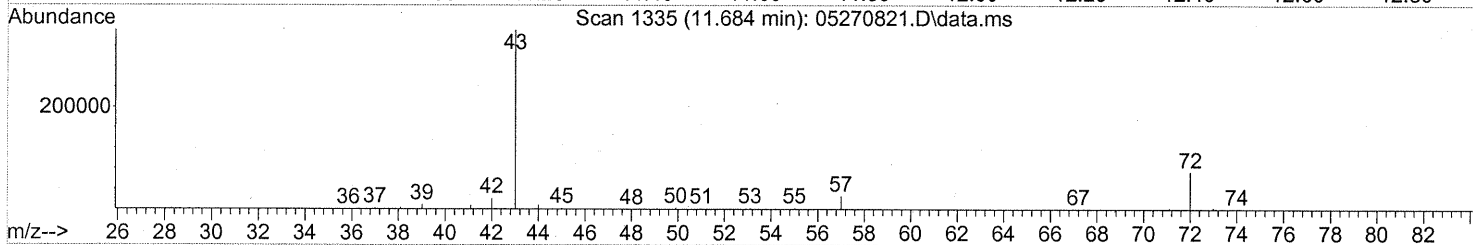
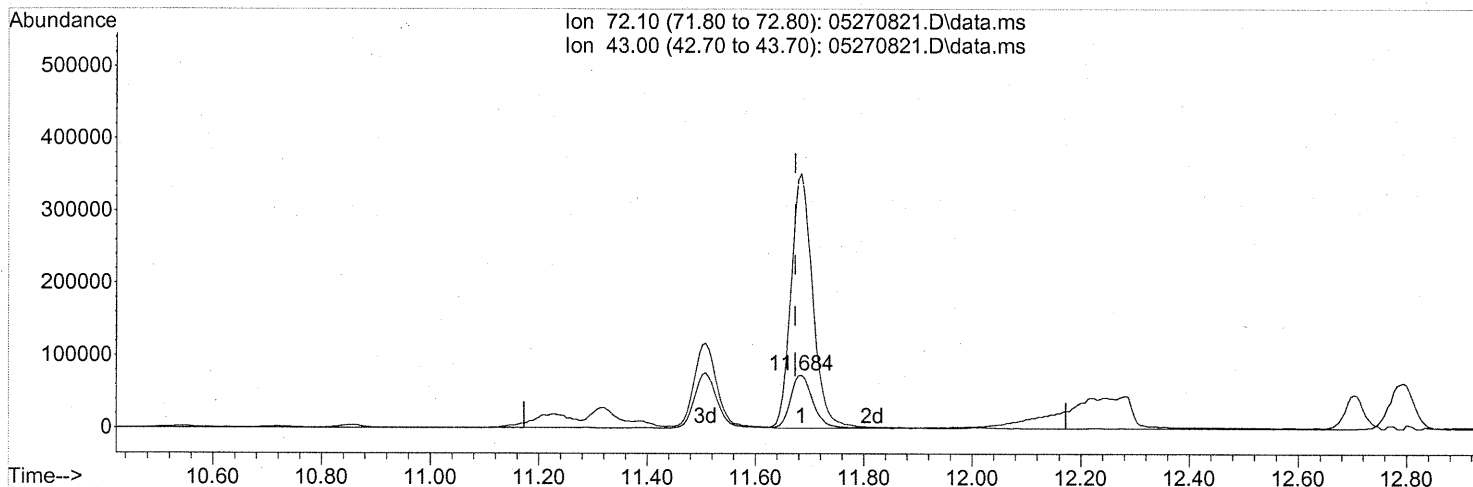
| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 854.12# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1081

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 27 May 2008 23:49
Operator : WA
Sample : P0801483-024 (1000ml)
Misc : ENSR SG09B-05 (-3.6, 3.6)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270821.D\data.ms

(27) 2-Butanone (T)
11.684min (+0.011) 9.30ng
response 208159

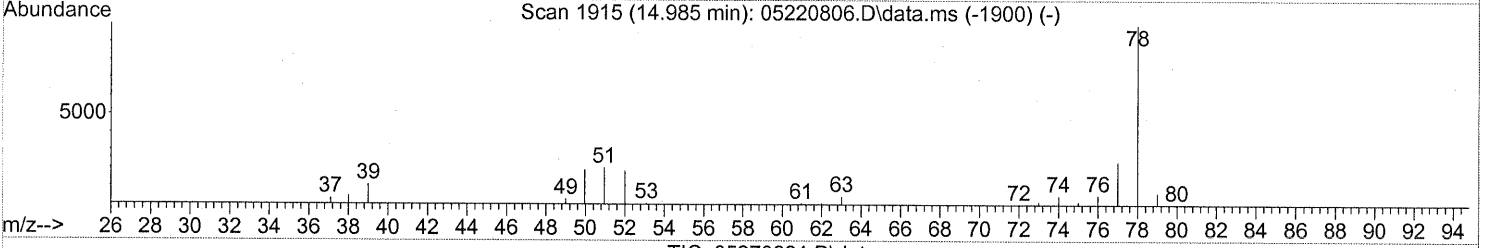
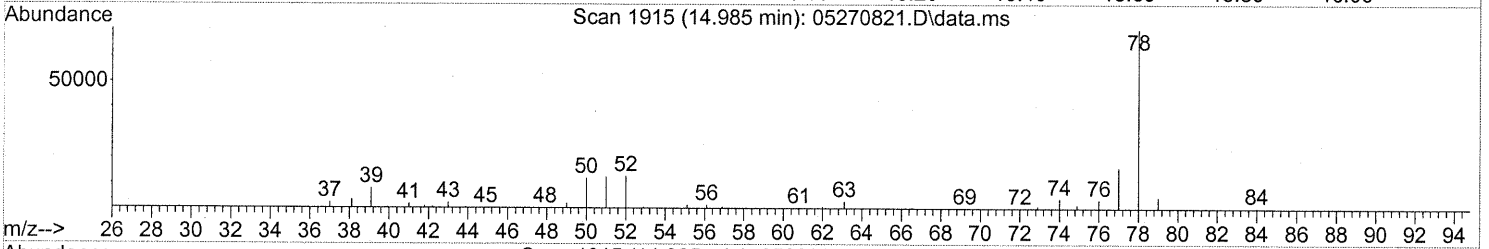
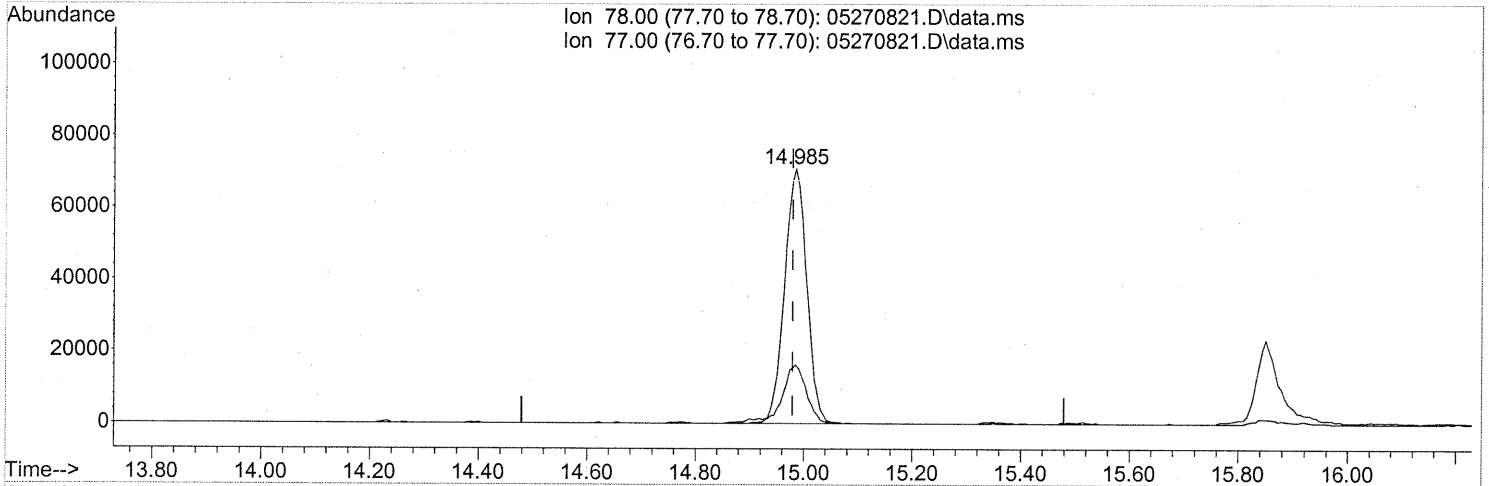
| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 467.11# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1082

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 27 May 2008 23:49
Operator : WA
Sample : P0801483-024 (1000ml)
Misc : ENSR SG09B-05 (-3.6, 3.6)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(41) Benzene (T)
14.985min (+0.006) 1.61ng
response 200928

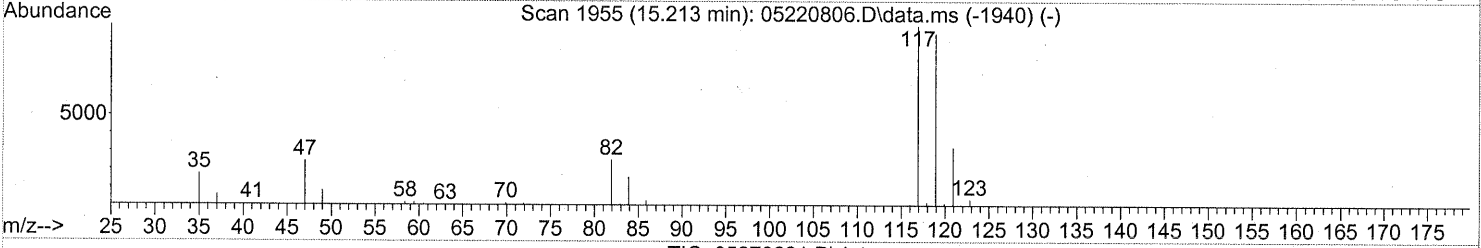
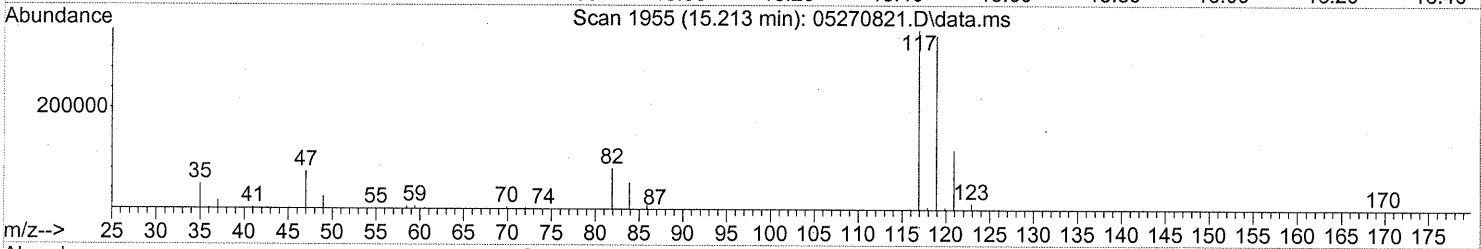
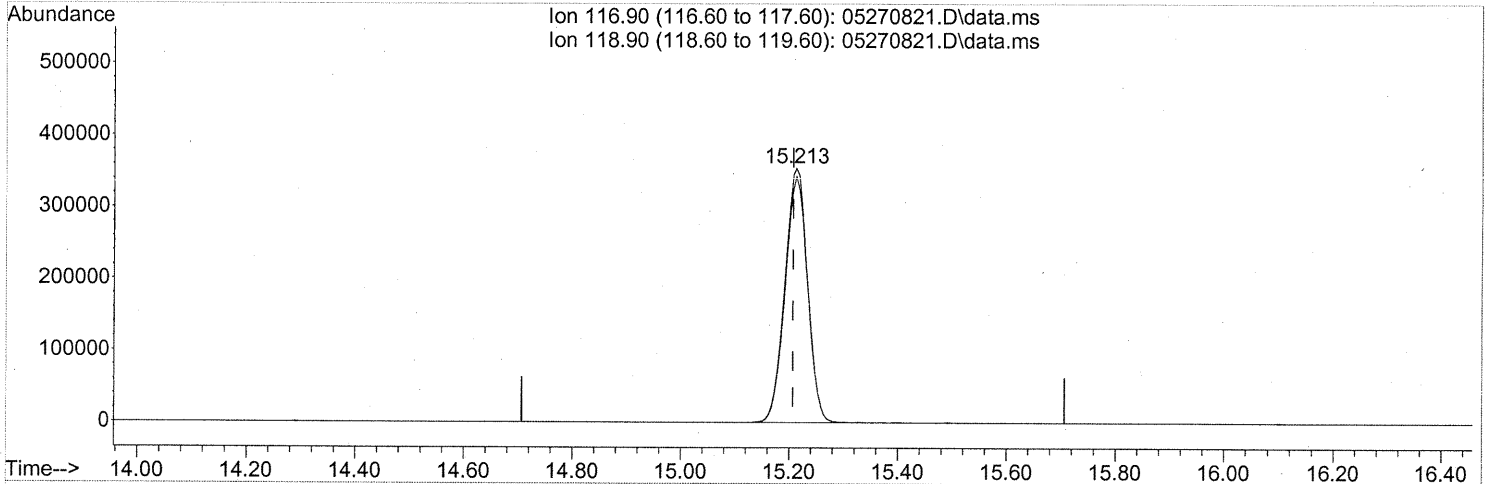
| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 25.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1083

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 21.48ng

response 1032490

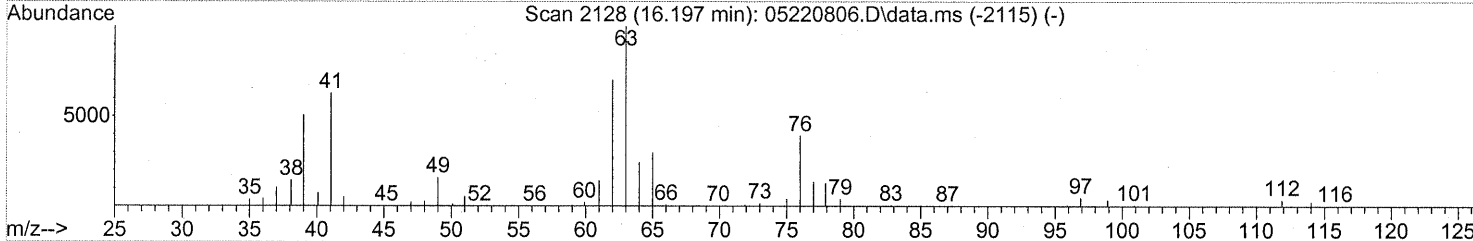
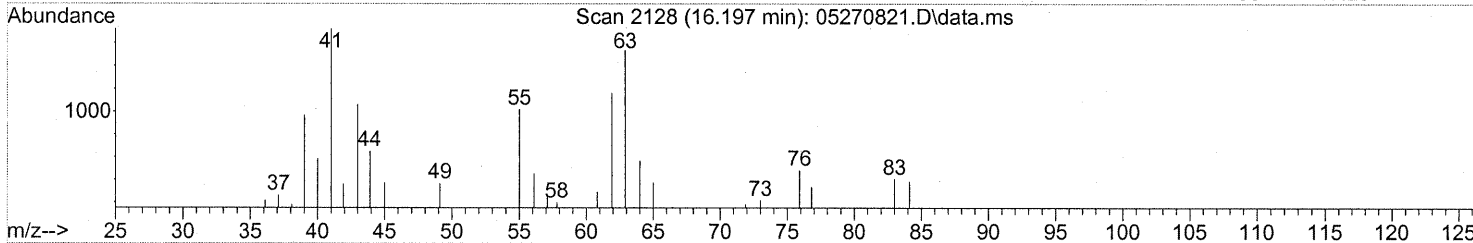
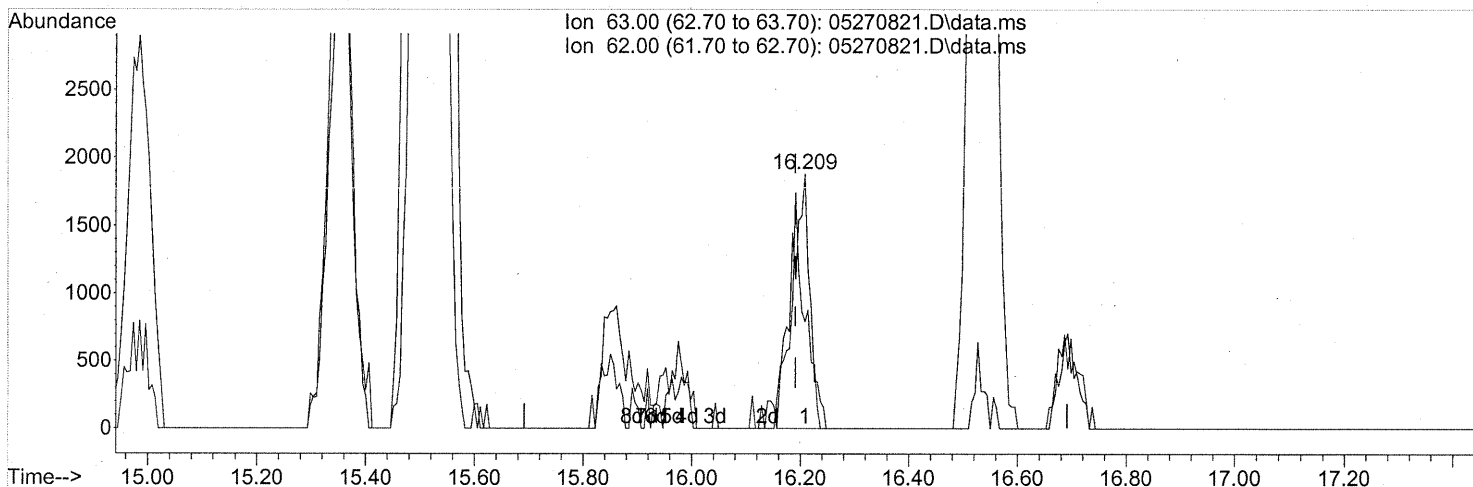
| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 95.73 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1084

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.209min (+0.017) 0.13ng

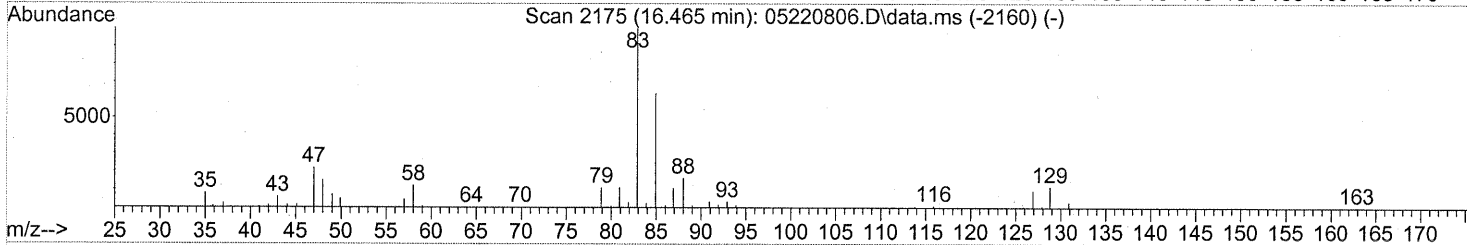
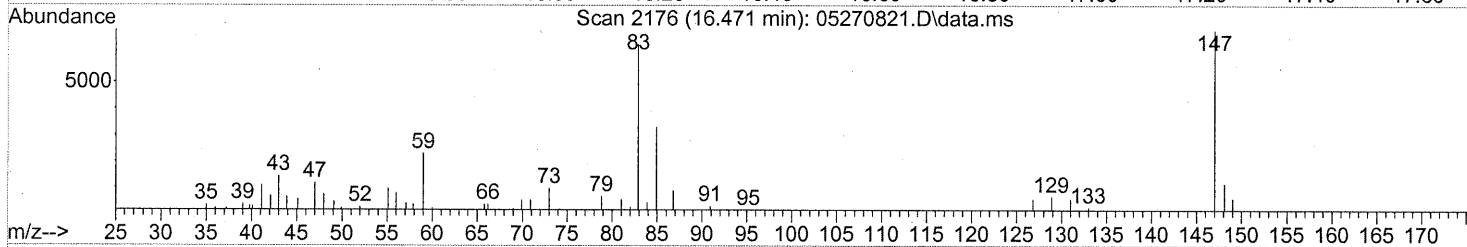
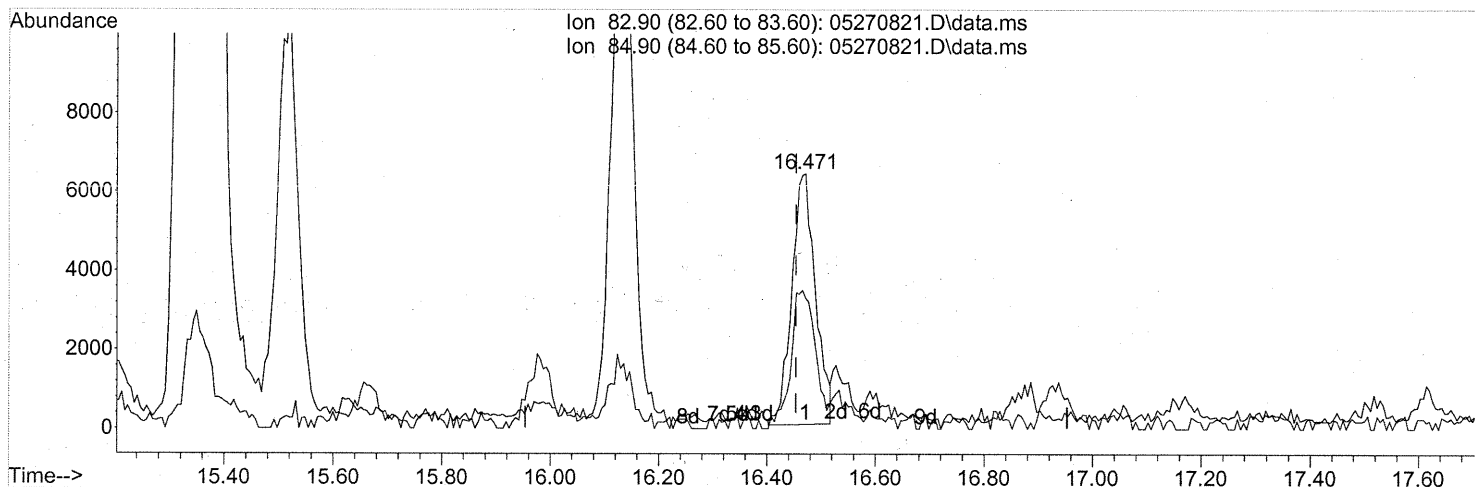
response 4506

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 62.00 | 71.30 | 74.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.471min (+0.017) 0.46ng

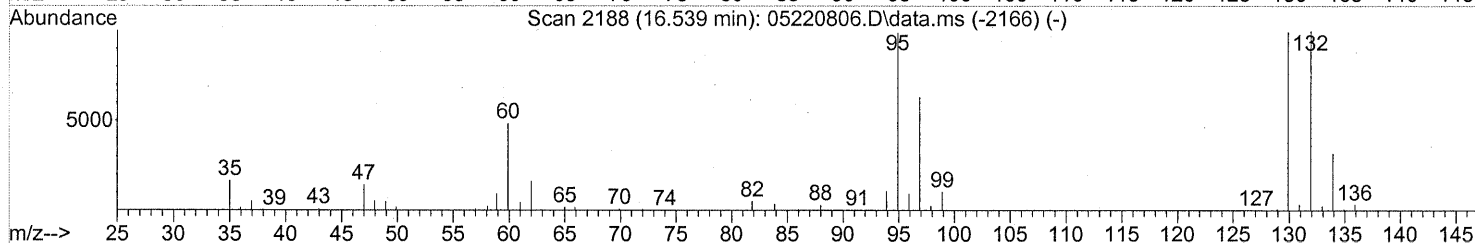
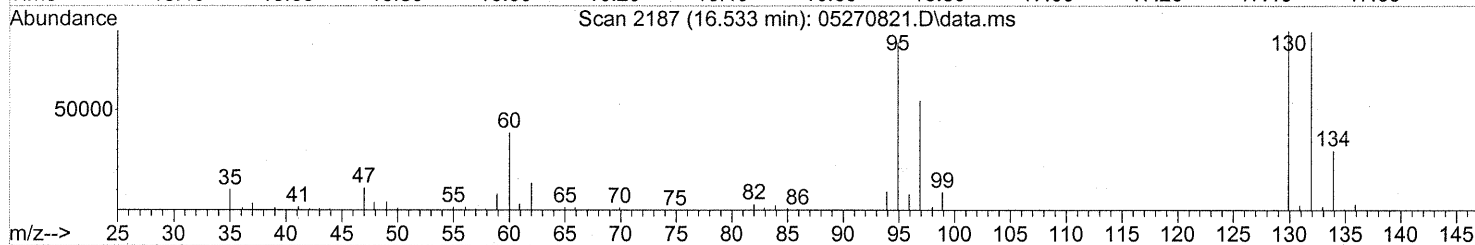
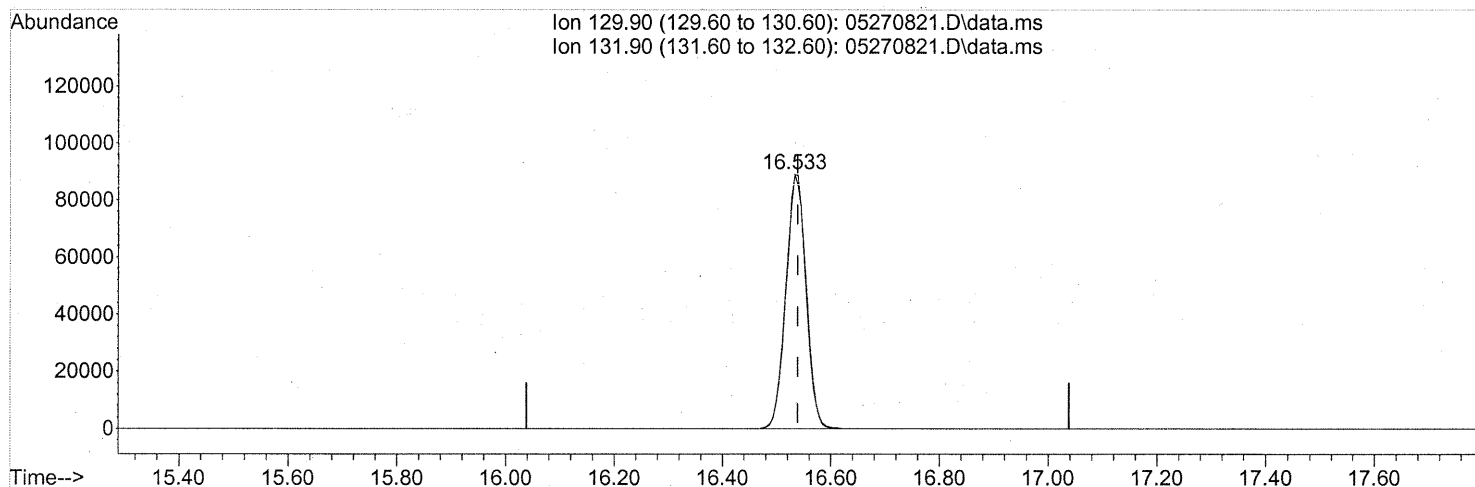
response 19286

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 57.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(47) Trichloroethene (T)
 16.533min (-0.006) 5.93ng
 response 226822

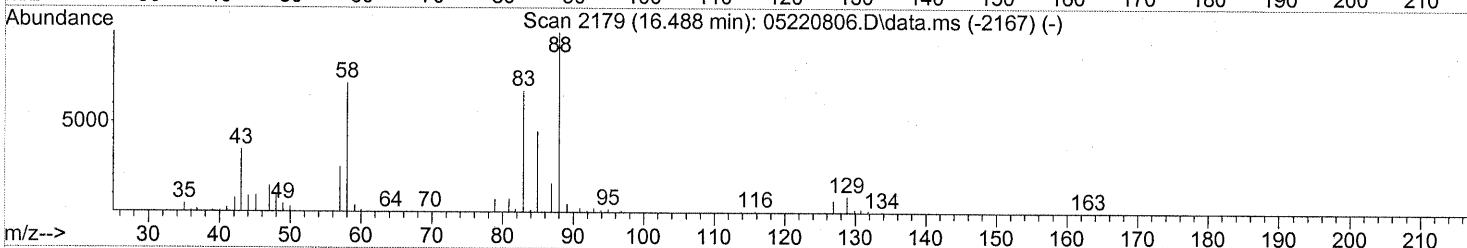
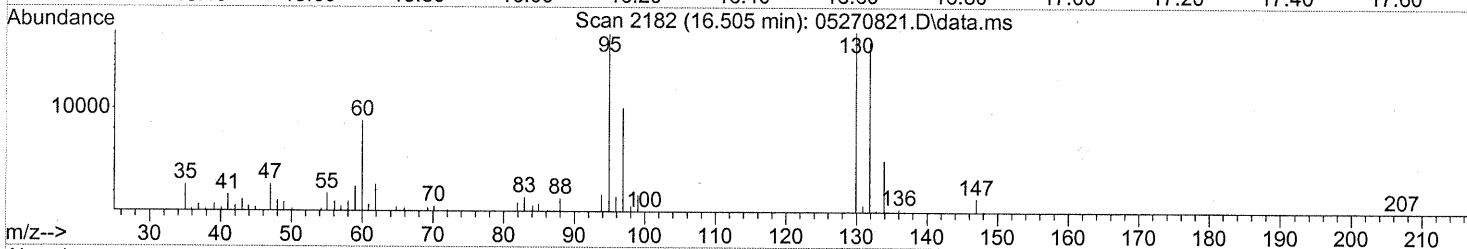
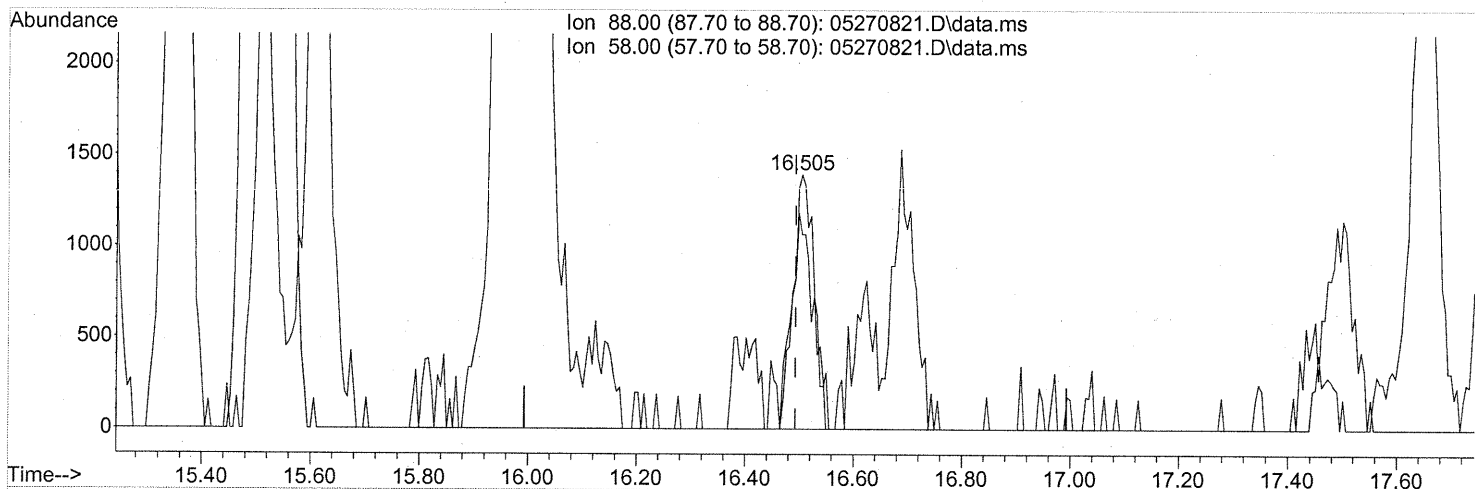
| Ion | Exp% | Act% |
|--------|--------|--------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 101.37 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1087

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.505min (+0.011) 0.16ng
 response 3690

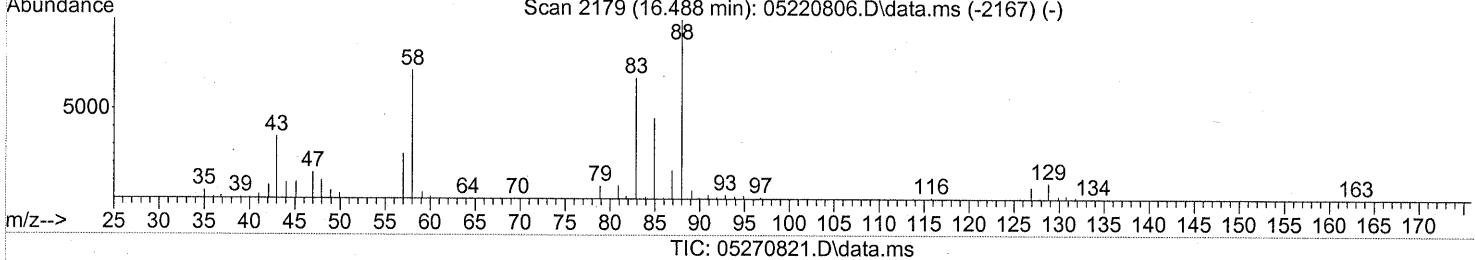
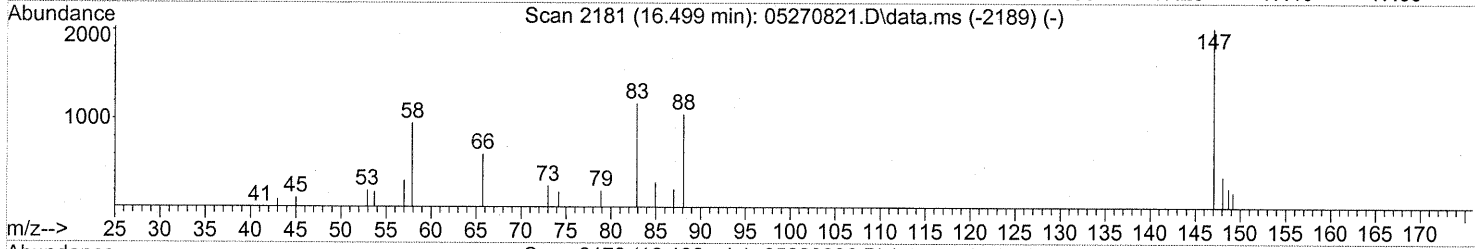
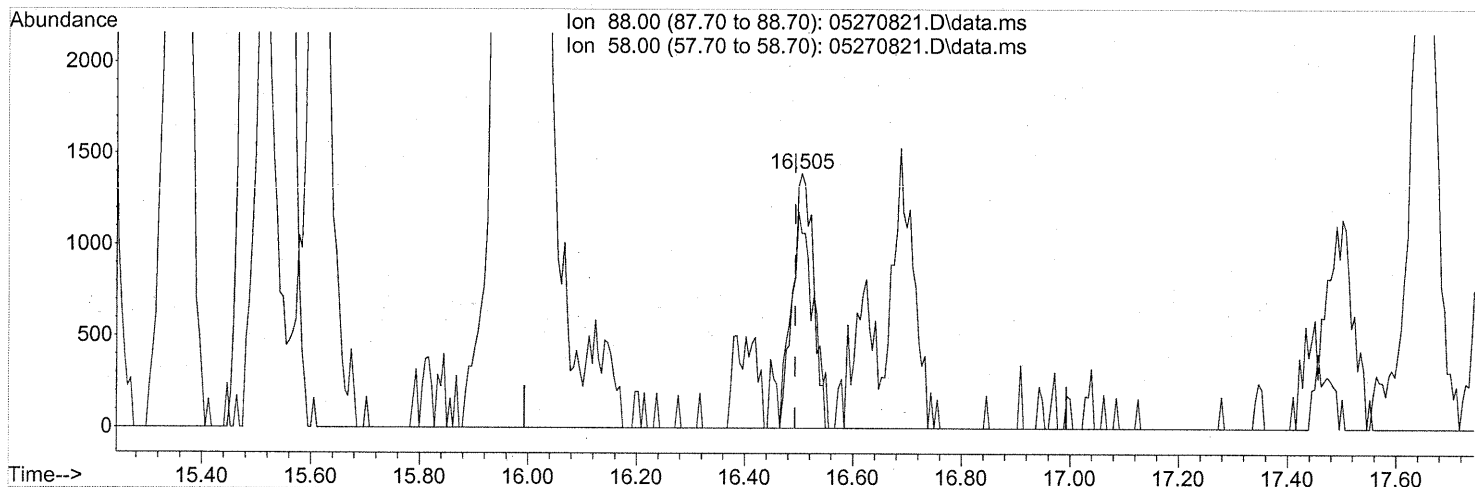
| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 91.52 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

before substr

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.505min (+0.011) 0.16ng
 response 3690

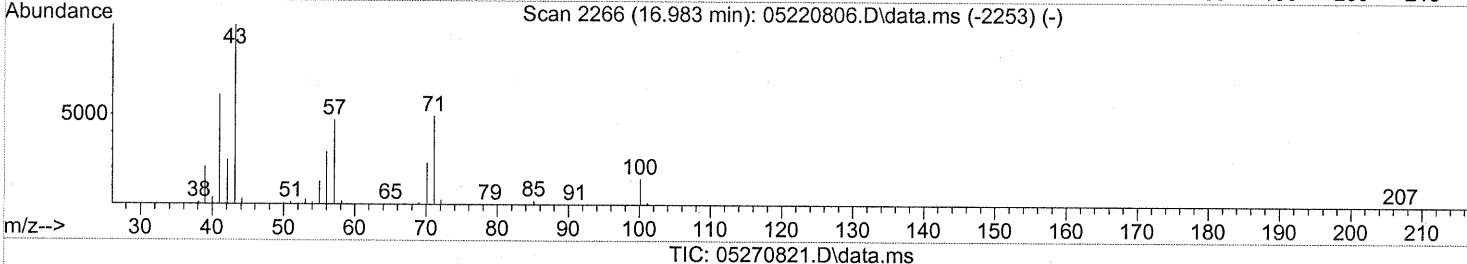
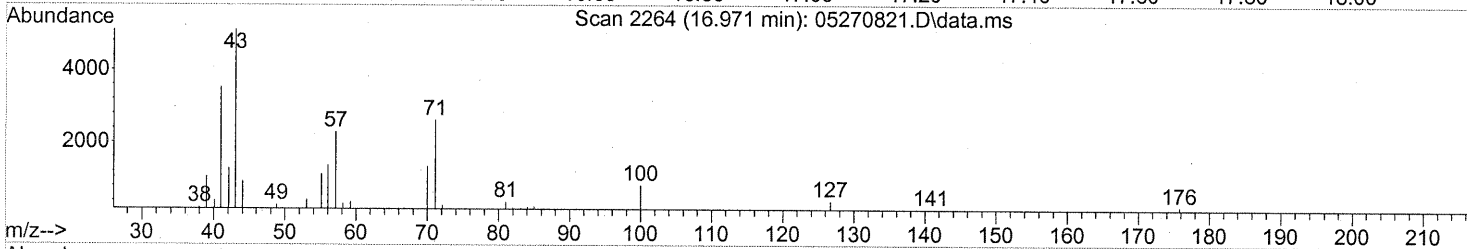
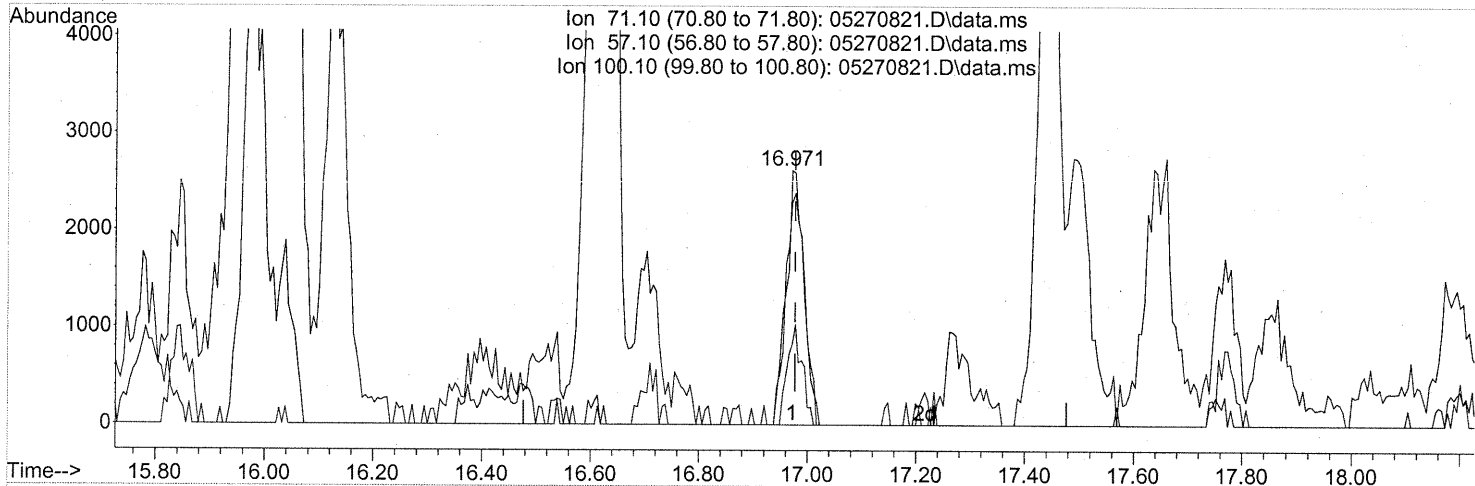
| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 91.52 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

after subst.
PA 5/31/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(51) n-Heptane (T)

16.971min (-0.006) 0.18ng

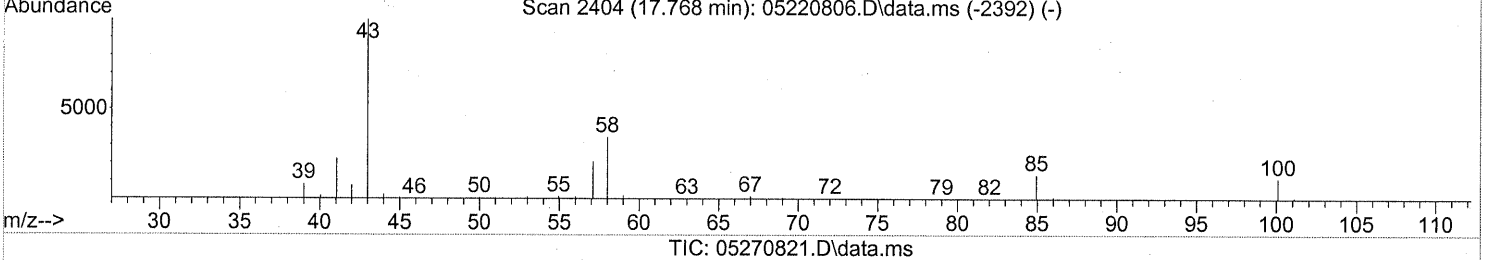
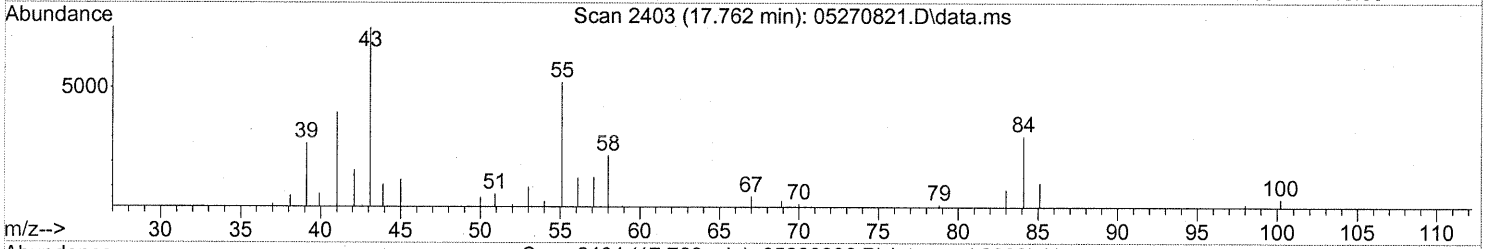
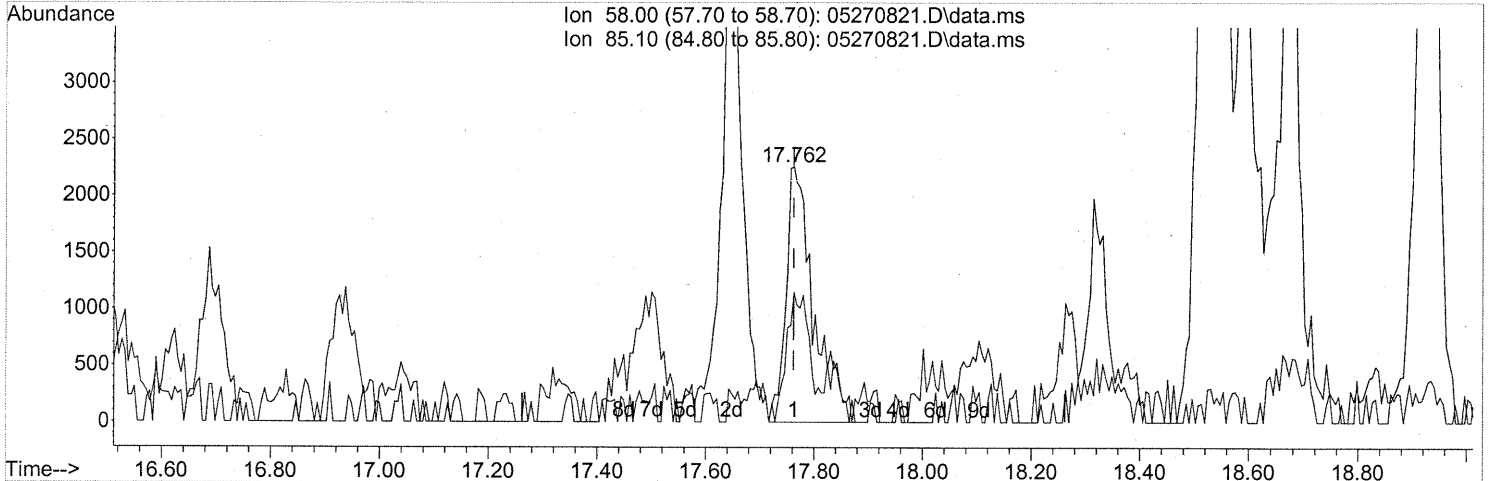
response 5944

| Ion | Exp% | Act% |
|--------|--------|--------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 98.32# |
| 100.10 | 30.10 | 32.64 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.762min (+0.000) 0.24ng

response 7981

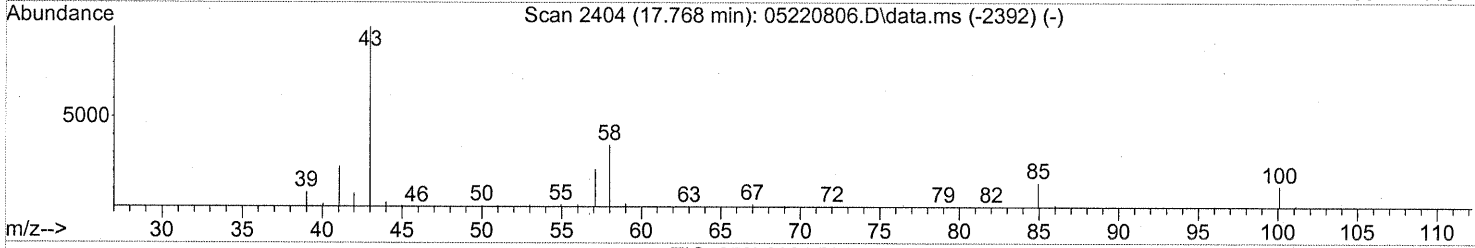
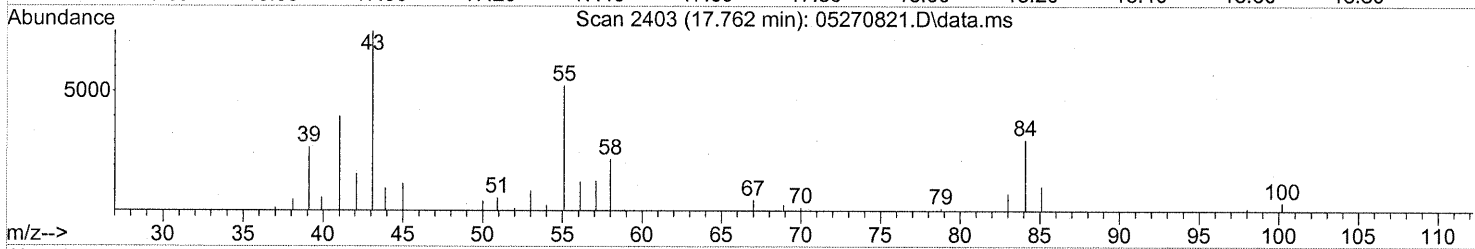
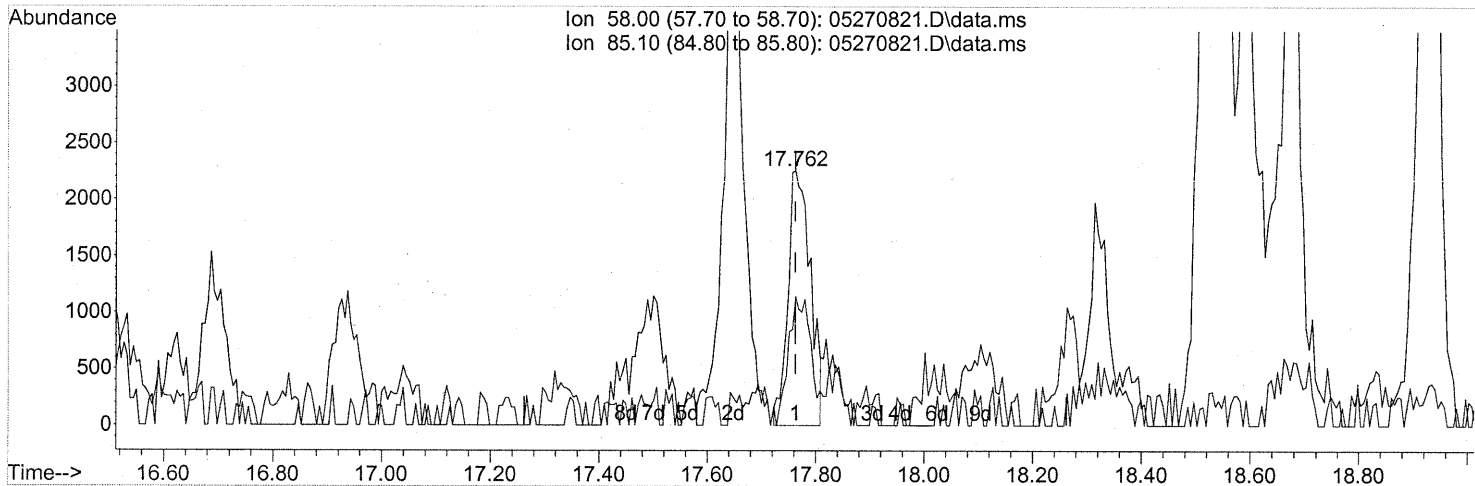
| Ion | Exp% | Act% |
|-------|-------|-------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 41.81 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.762min (+0.000) 0.20ng m

response 6462

| Ion | Exp% | Act% |
|-------|-------|--------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 51.64# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

No tailing

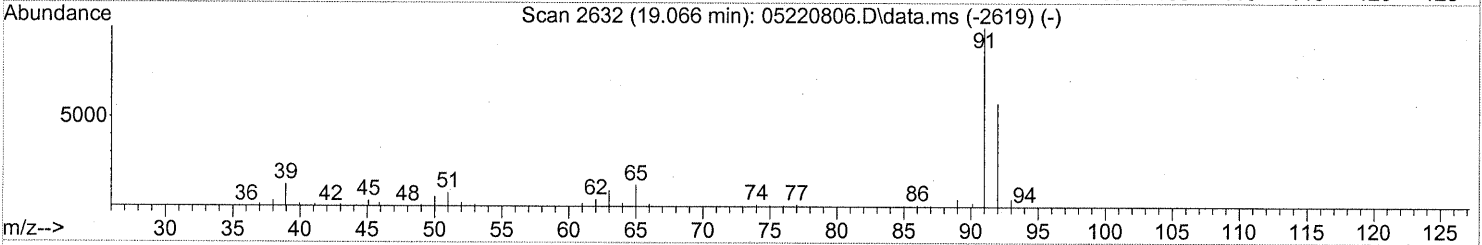
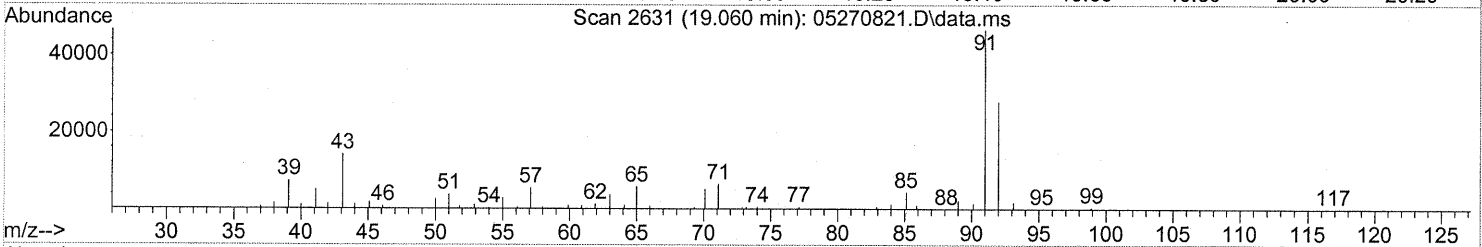
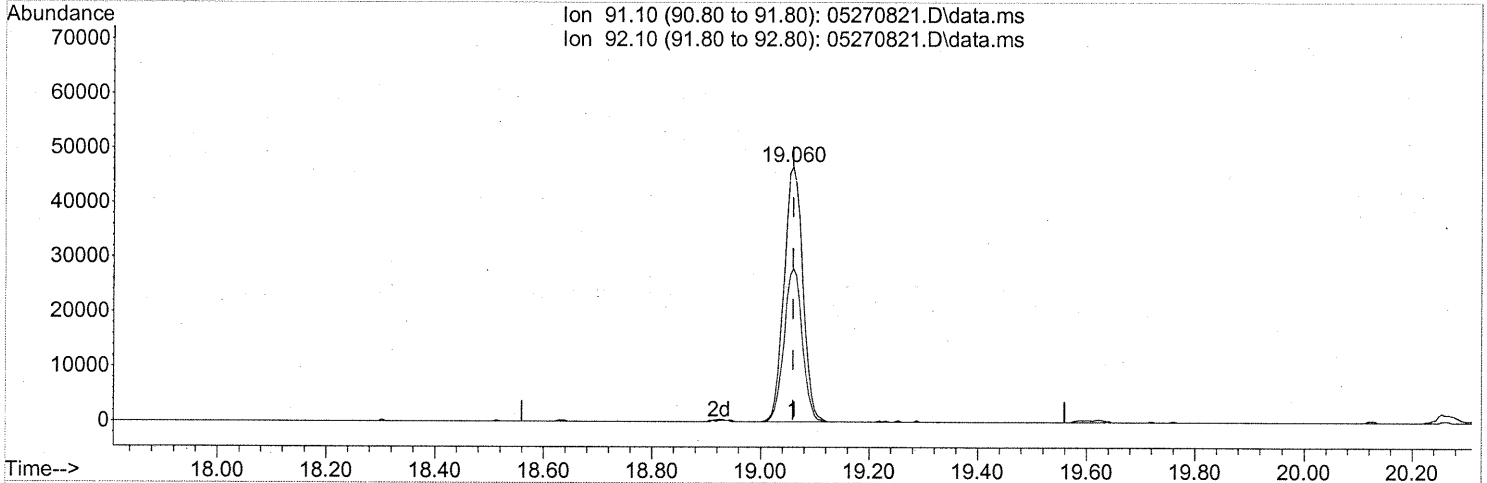
5/31/08

Bo 6/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(58) Toluene (T)

19.060min (+0.000) 0.80ng

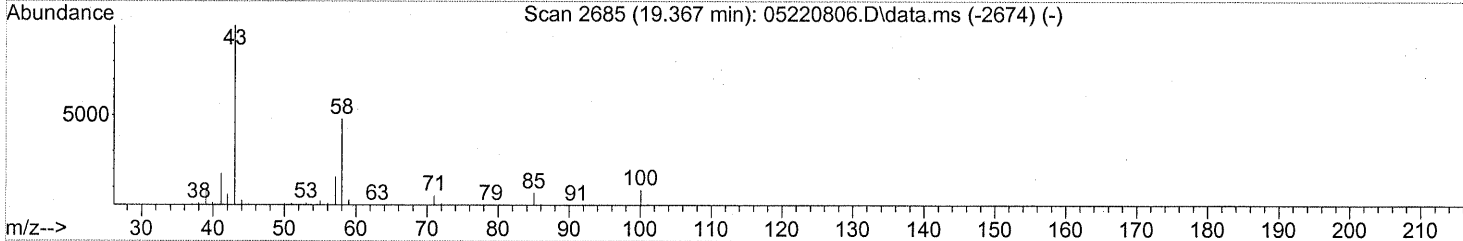
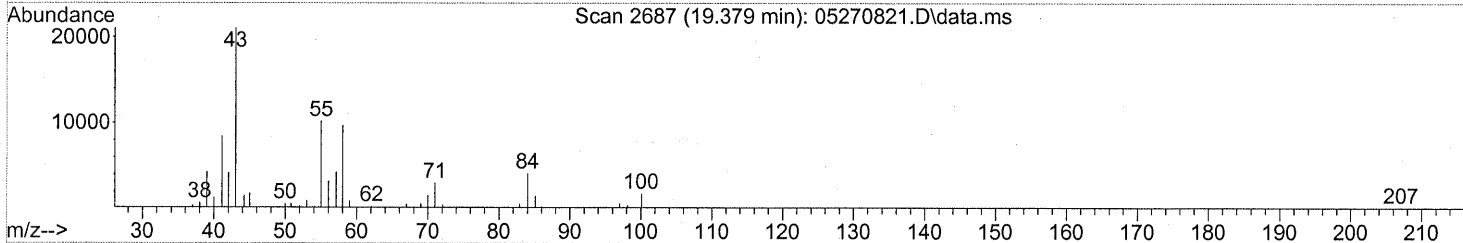
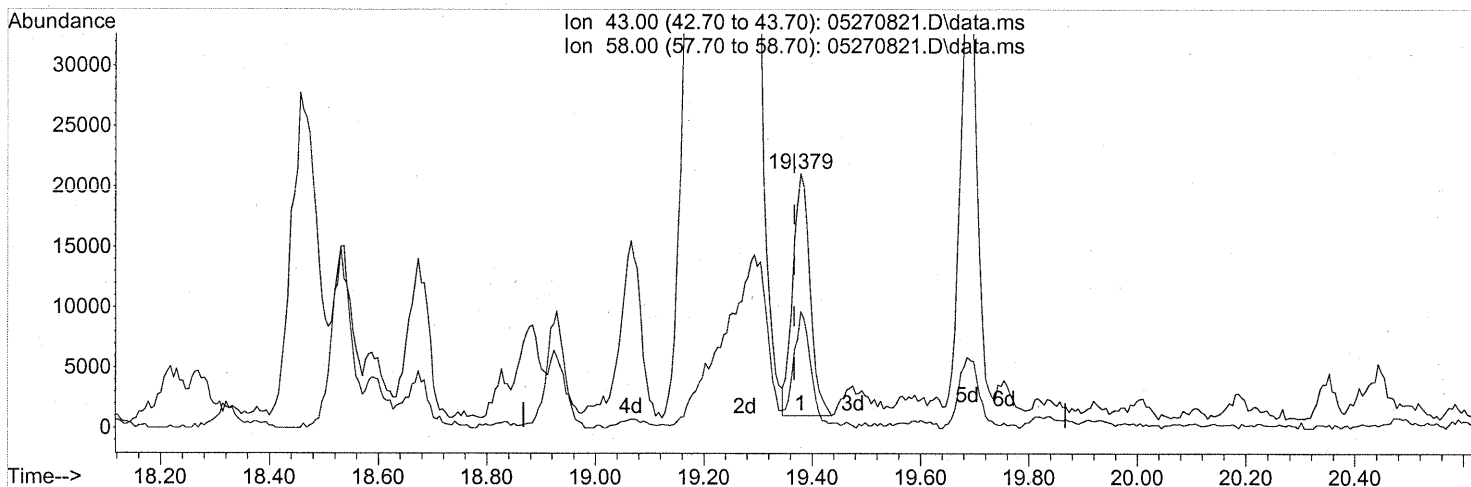
response 111666

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 58.13 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(59) 2-Hexanone (T)

19.379min (+0.011) 0.46ng

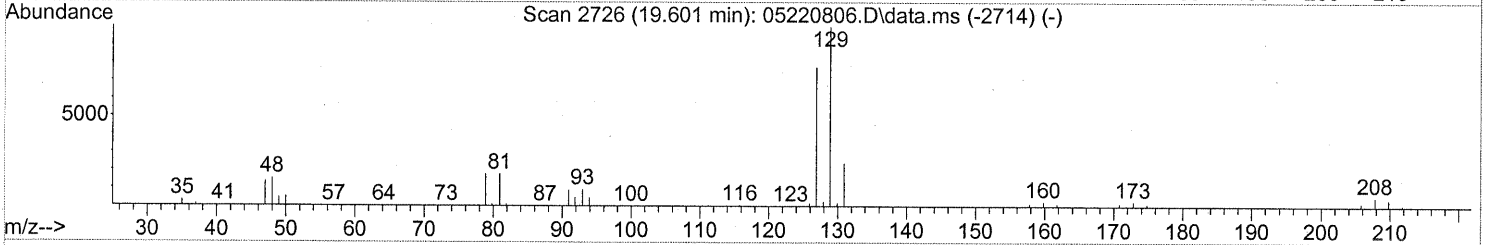
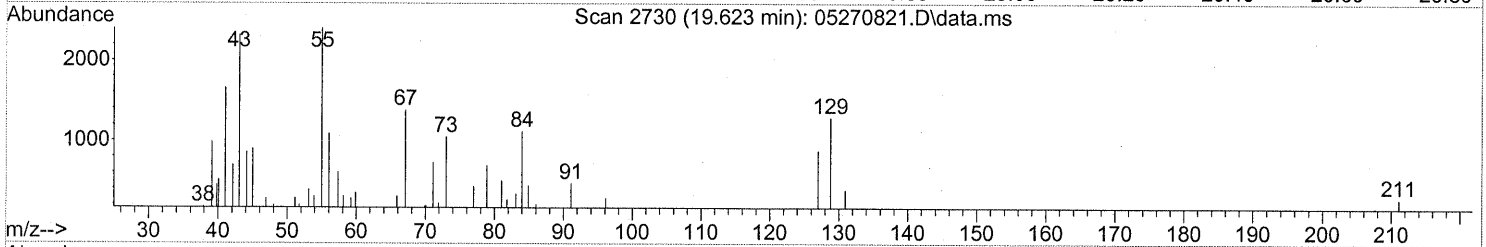
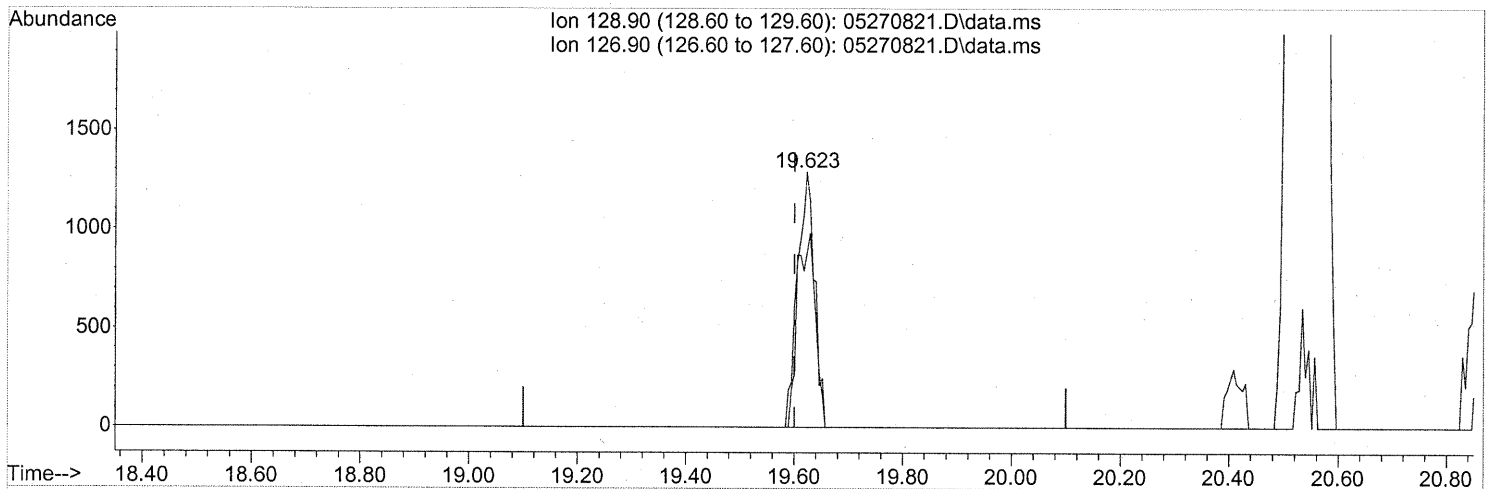
response 44412

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 47.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(60) Dibromochloromethane (T)

19.623min (+0.023) 0.08ng

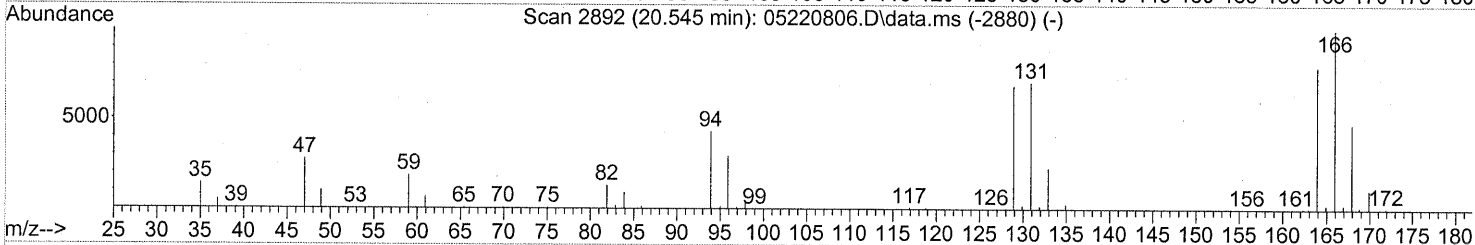
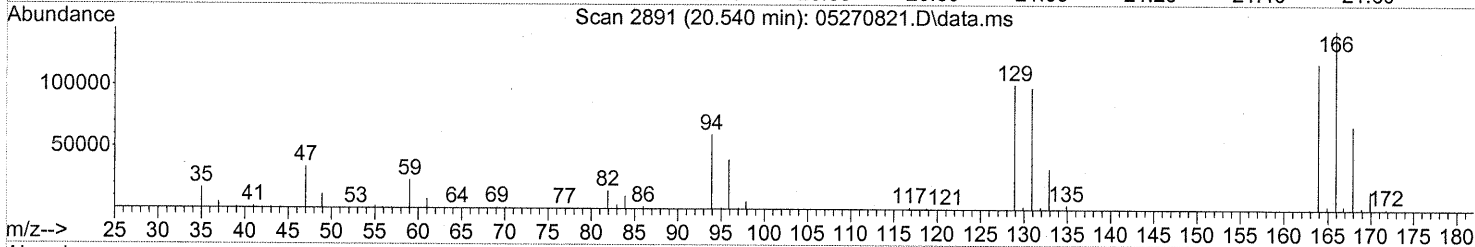
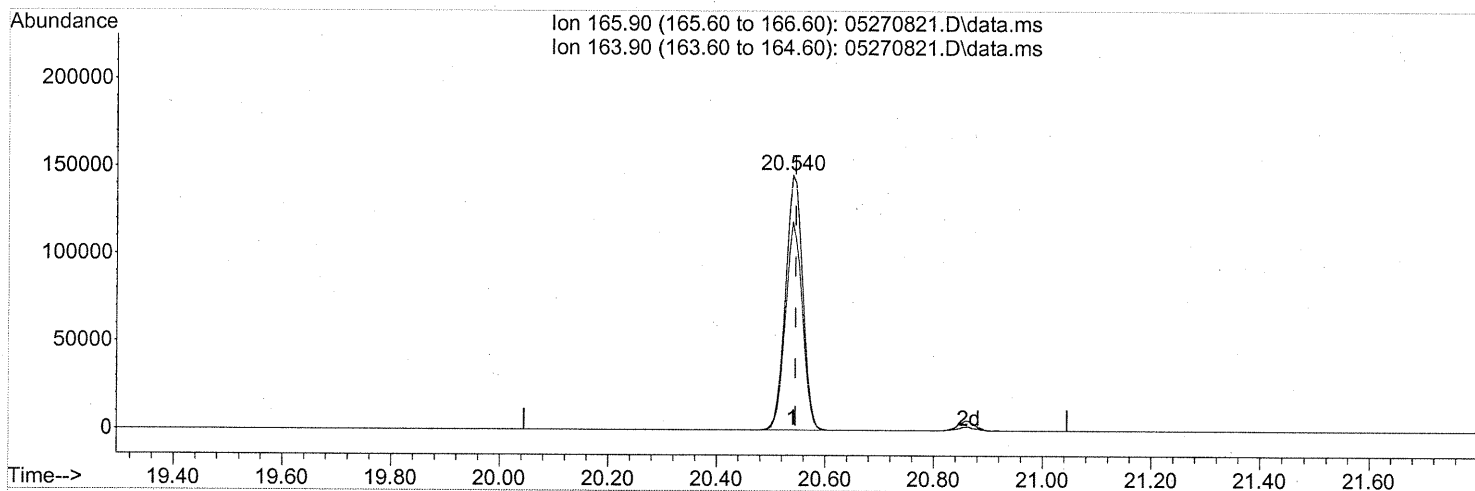
response 2827

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.90 | 100 | 100 |
| 126.90 | 76.90 | 79.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 7.76ng

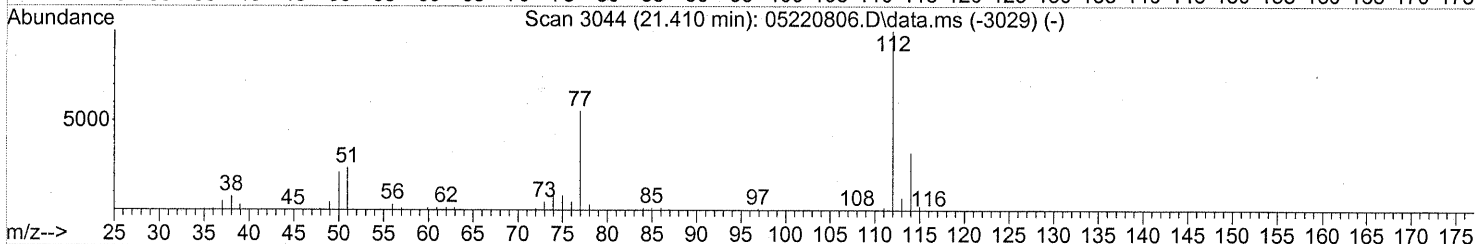
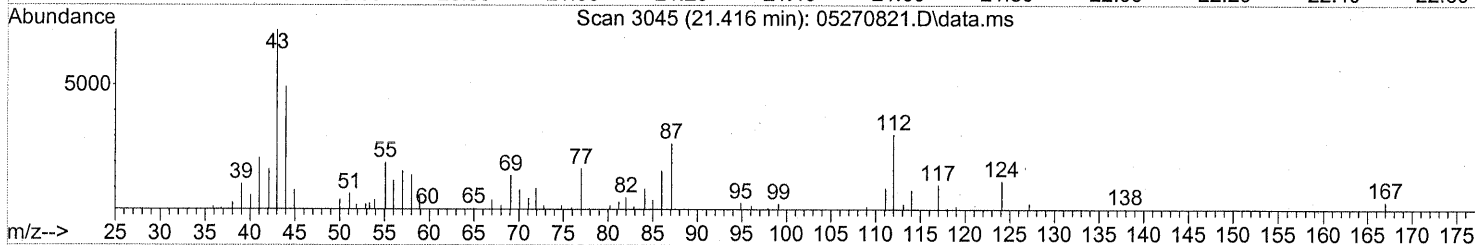
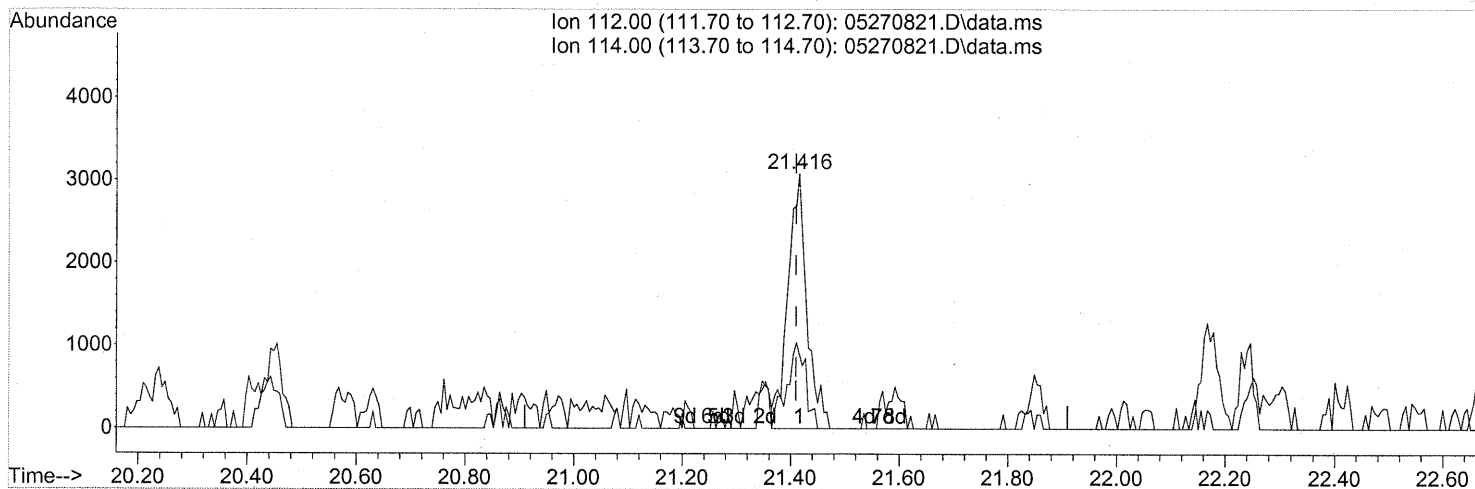
response 319970

| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 80.46 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



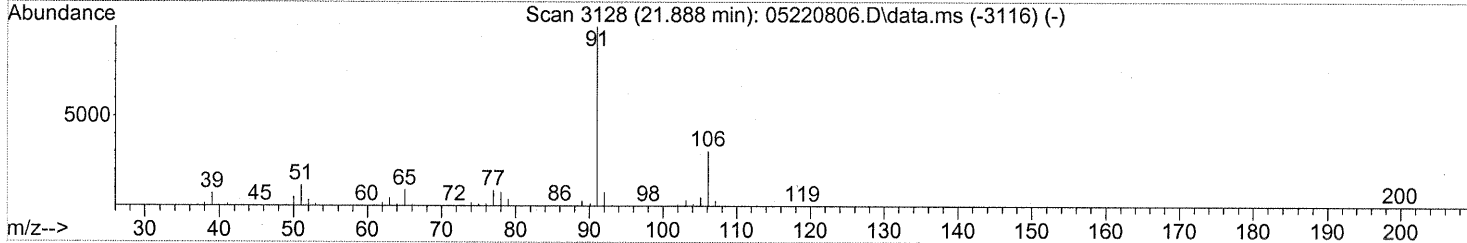
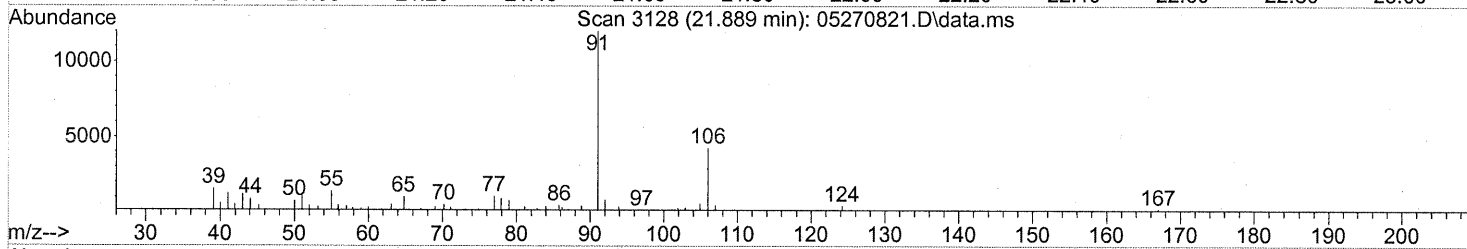
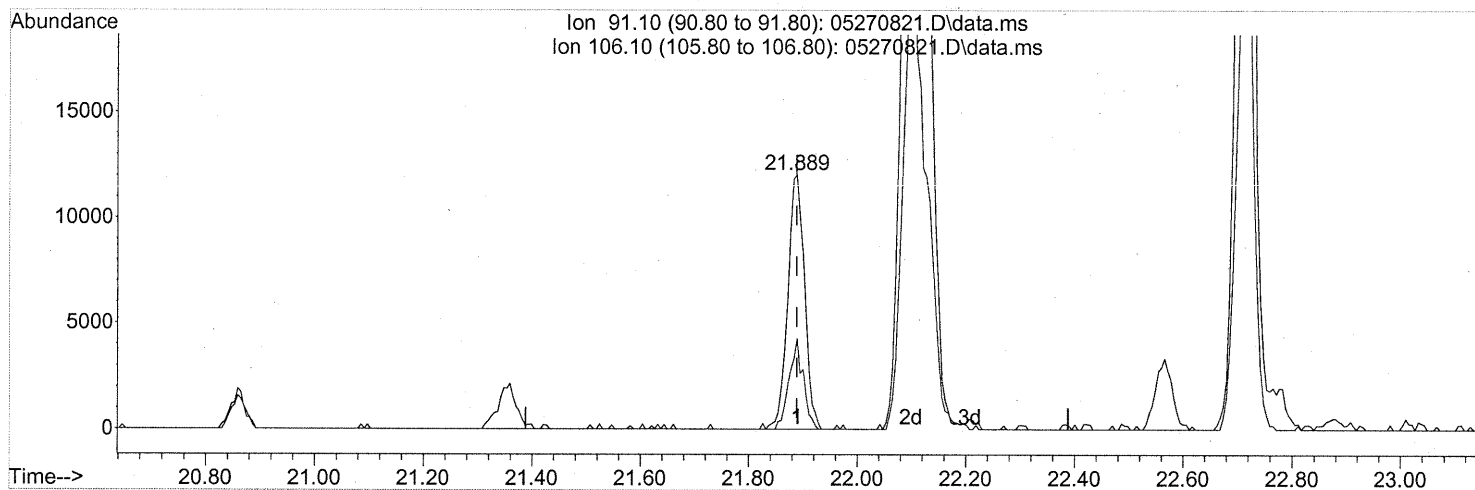
(65) Chlorobenzene (T)
 21.416min (+0.006) 0.08ng
 response 7490

| Ion | Exp% | Act% |
|--------|-------|-------|
| 112.00 | 100 | 100 |
| 114.00 | 32.40 | 33.67 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(66) Ethylbenzene (T)

21.889min (+0.000) 0.16ng

response 25643

| Ion | Exp% | Act% |
|-----|------|------|
|-----|------|------|

| | | |
|-------|-----|-----|
| 91.10 | 100 | 100 |
|-------|-----|-----|

| | | |
|--------|-------|-------|
| 106.10 | 34.10 | 29.97 |
|--------|-------|-------|

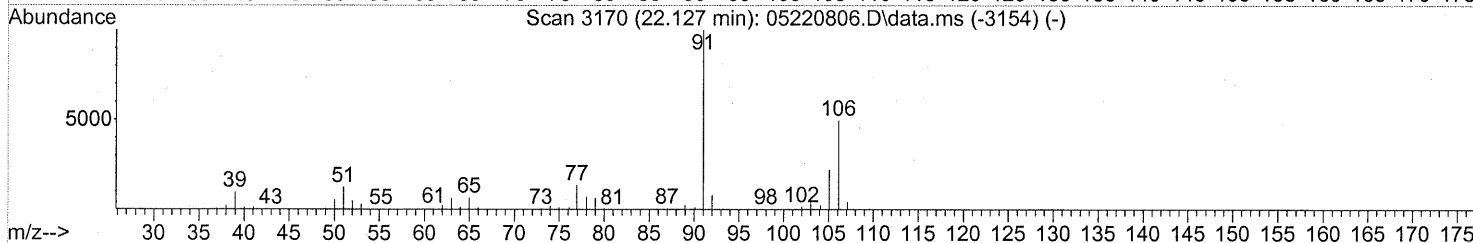
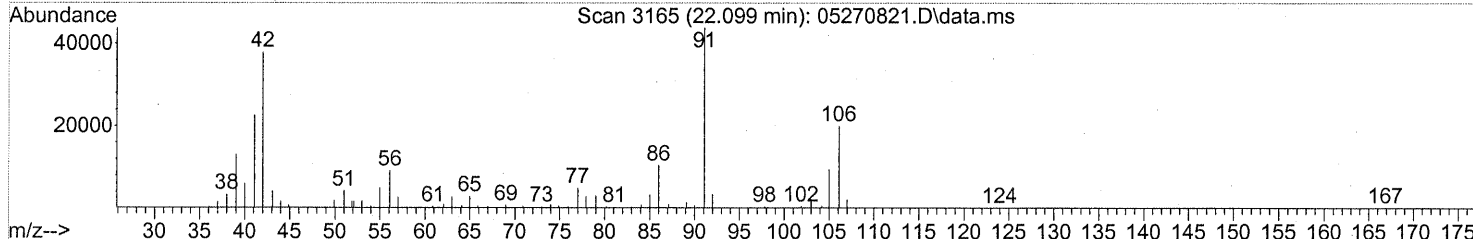
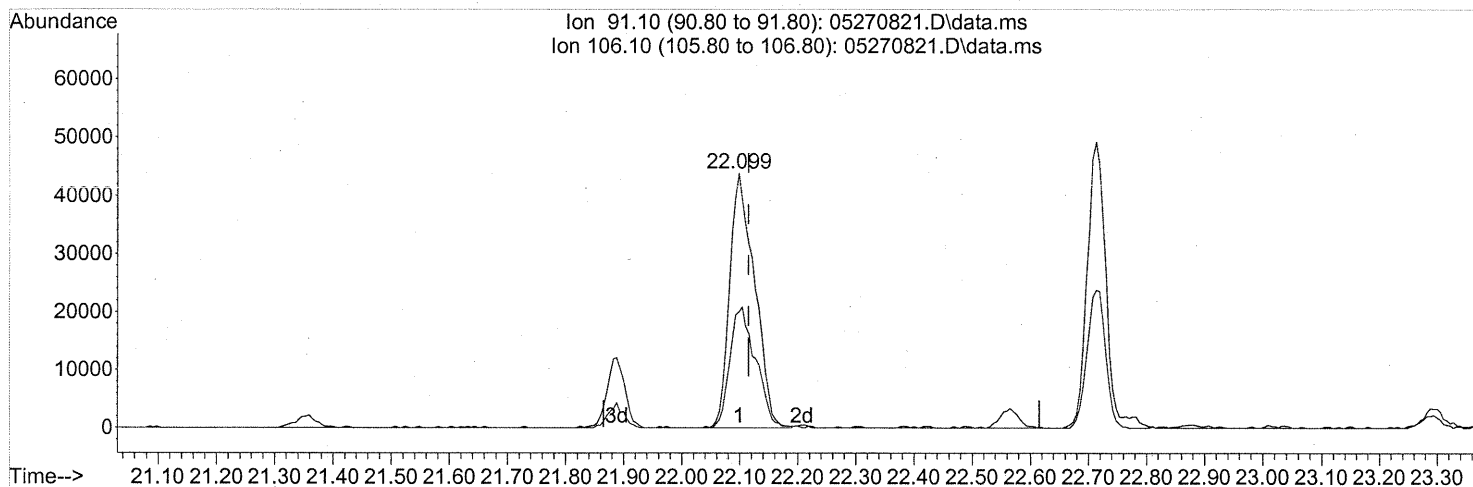
| | | |
|------|------|------|
| 0.00 | 0.00 | 0.00 |
|------|------|------|

| | | |
|------|------|------|
| 0.00 | 0.00 | 0.00 |
|------|------|------|

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



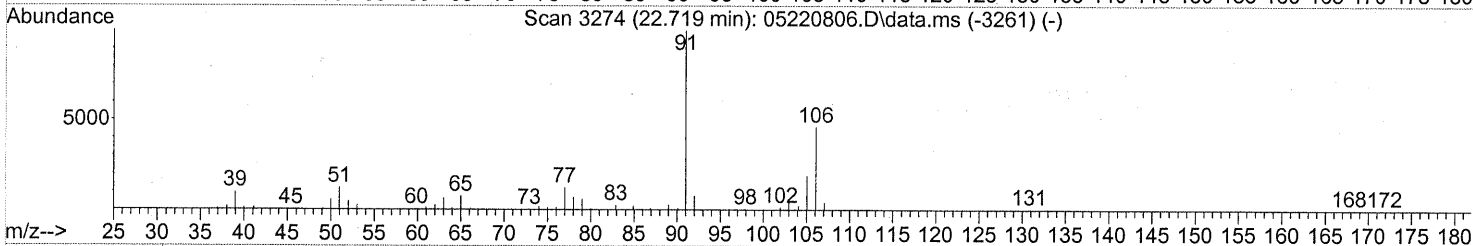
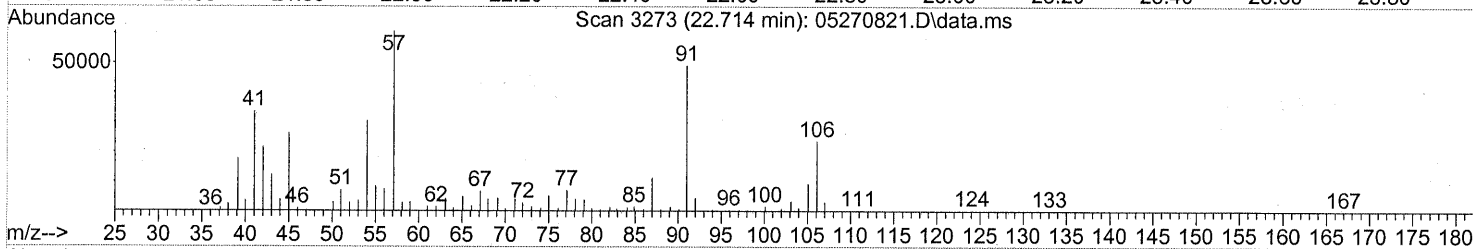
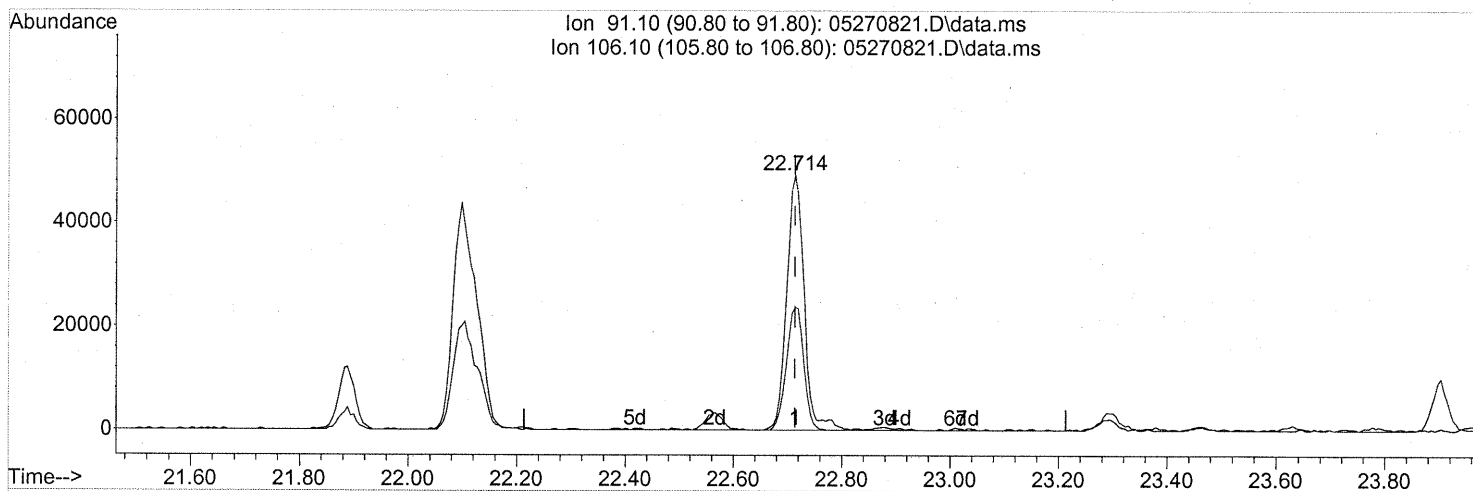
(67) m- & p-Xylene (T)
 22.099min (-0.017) 1.22ng
 response 130779

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 49.41 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.714min (+0.000) 0.95ng
 response 109682

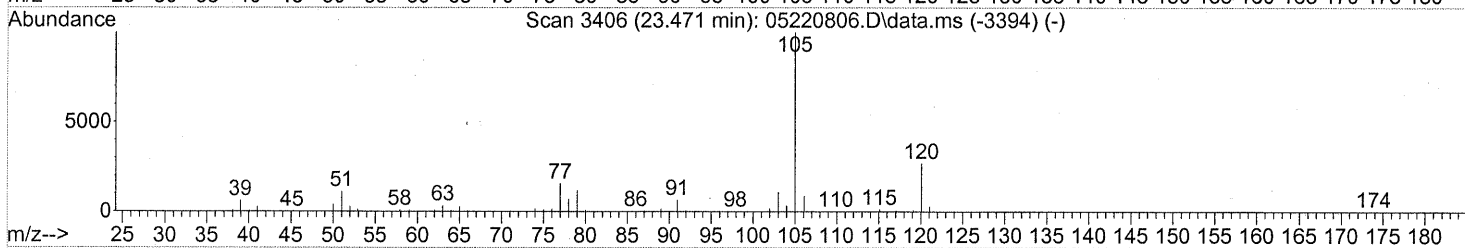
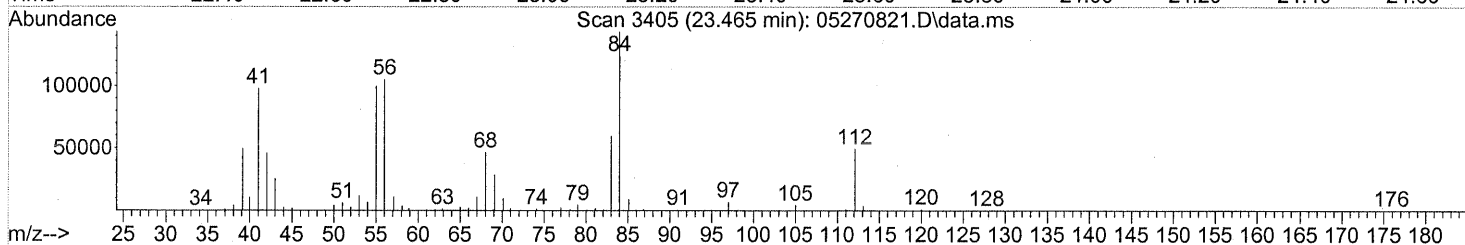
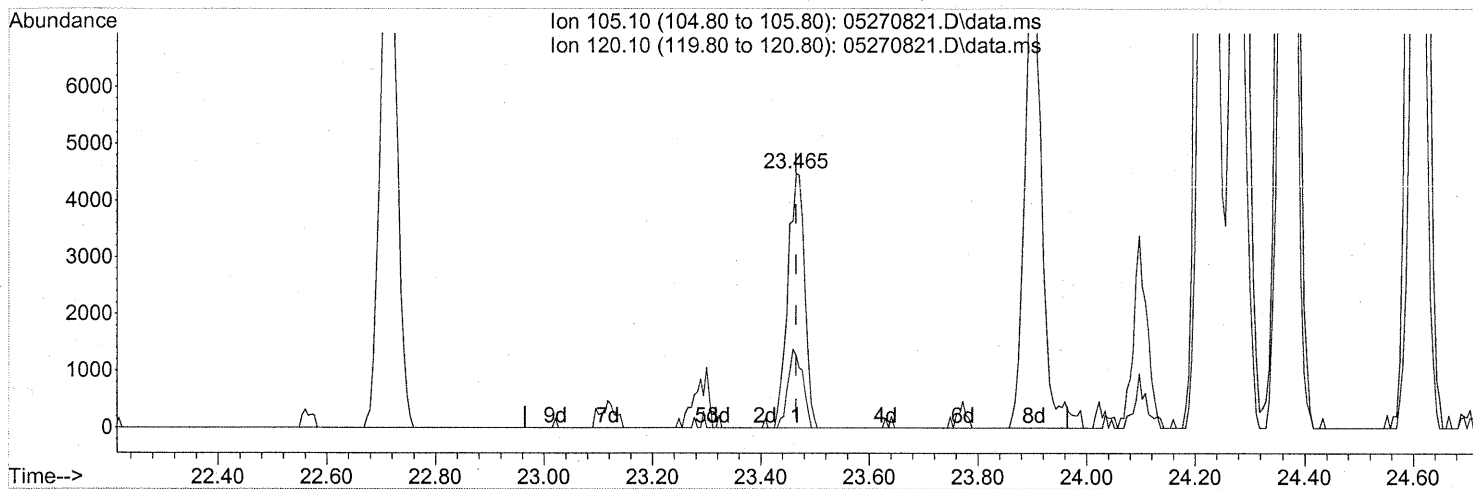
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 47.70 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1100

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



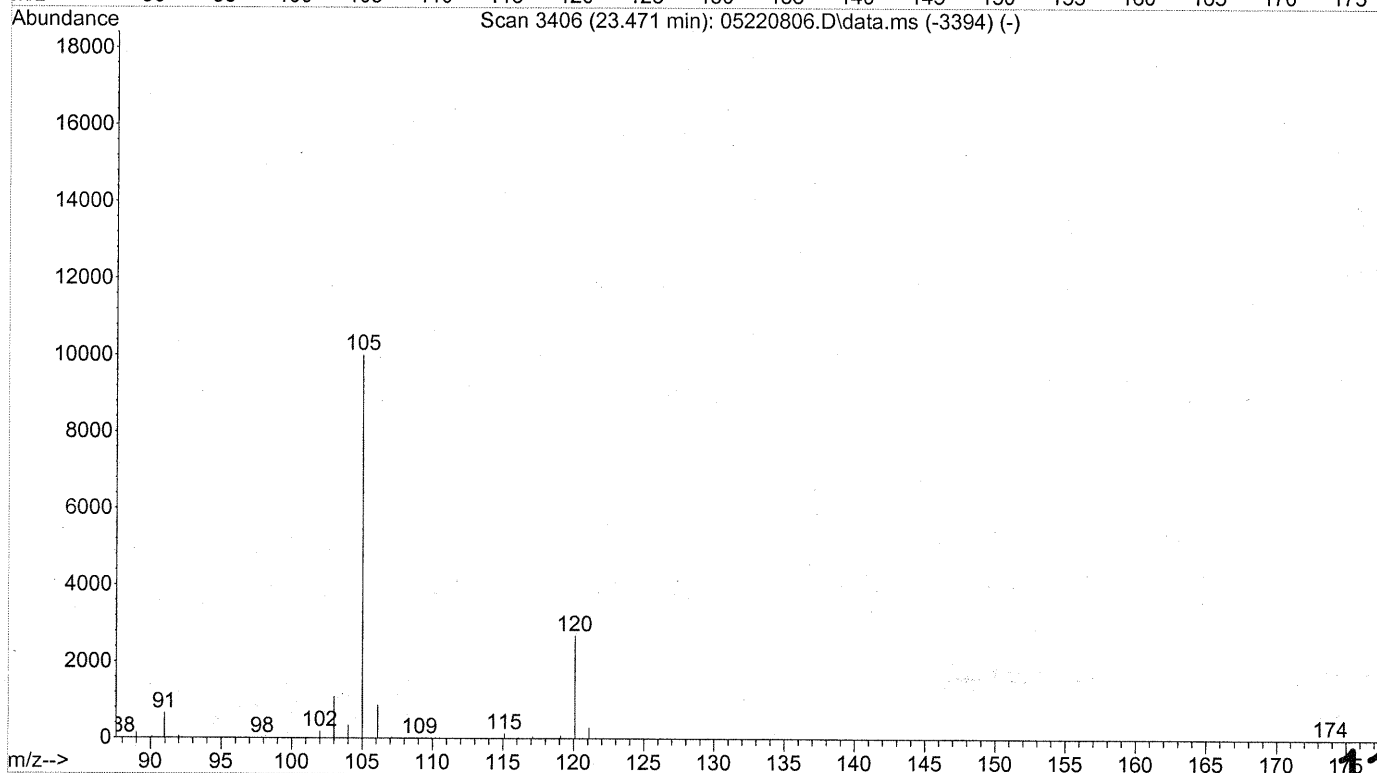
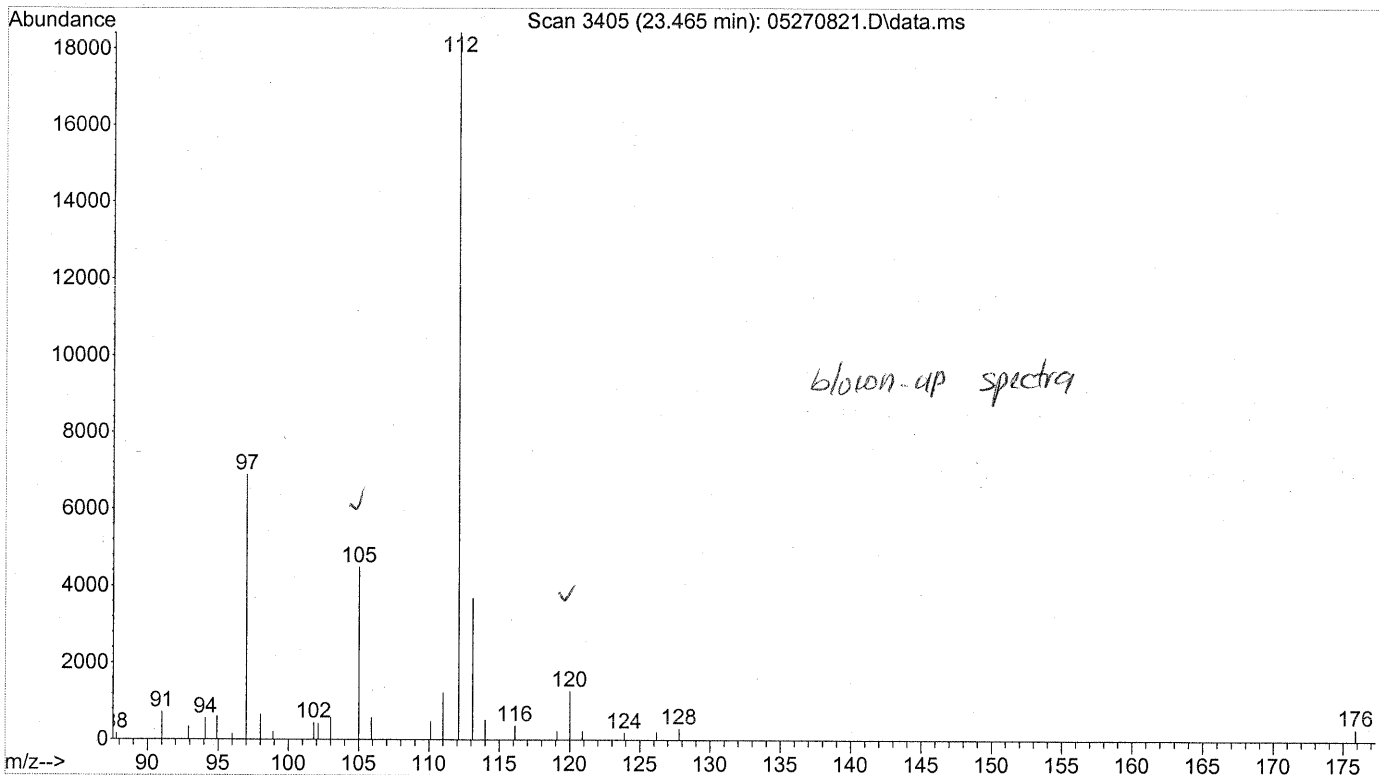
(74) Cumene (T)
 23.465min (+0.000) 0.06ng
 response 9653

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 26.30 | 26.77 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

1101

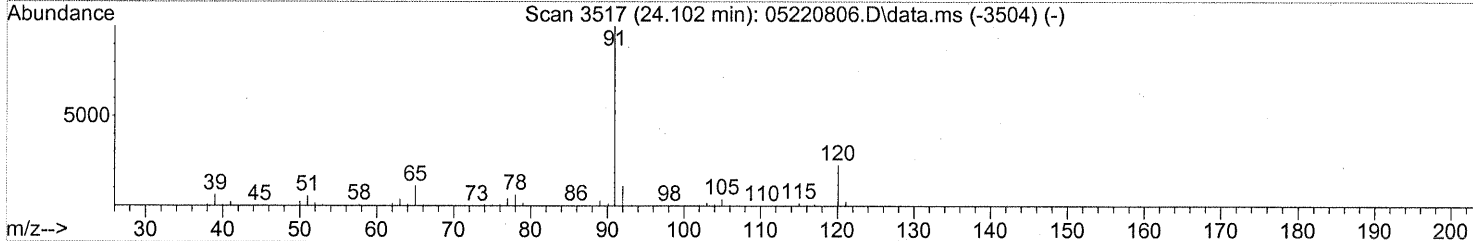
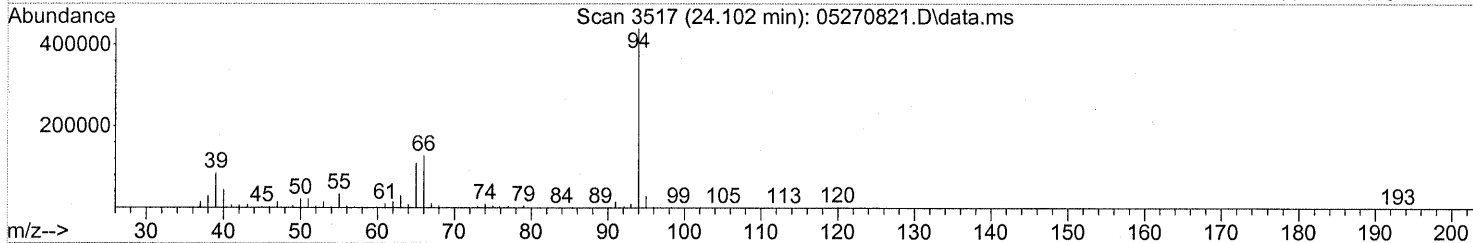
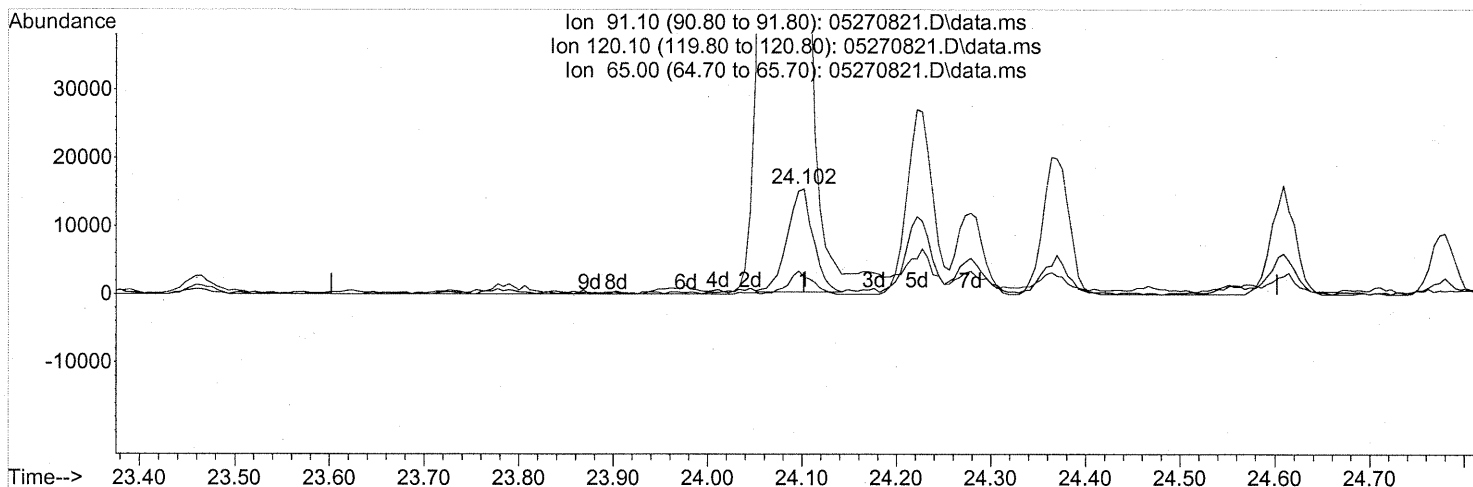
File : J:\MS13\DATA\2008_05\27\05270821.D
Operator : WA
Acquired : 27 May 2008 23:49 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-024 (1000ml)
Misc Info : ENSR SG09B-05 (-3.6, 3.6)
Vial Number: 7



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

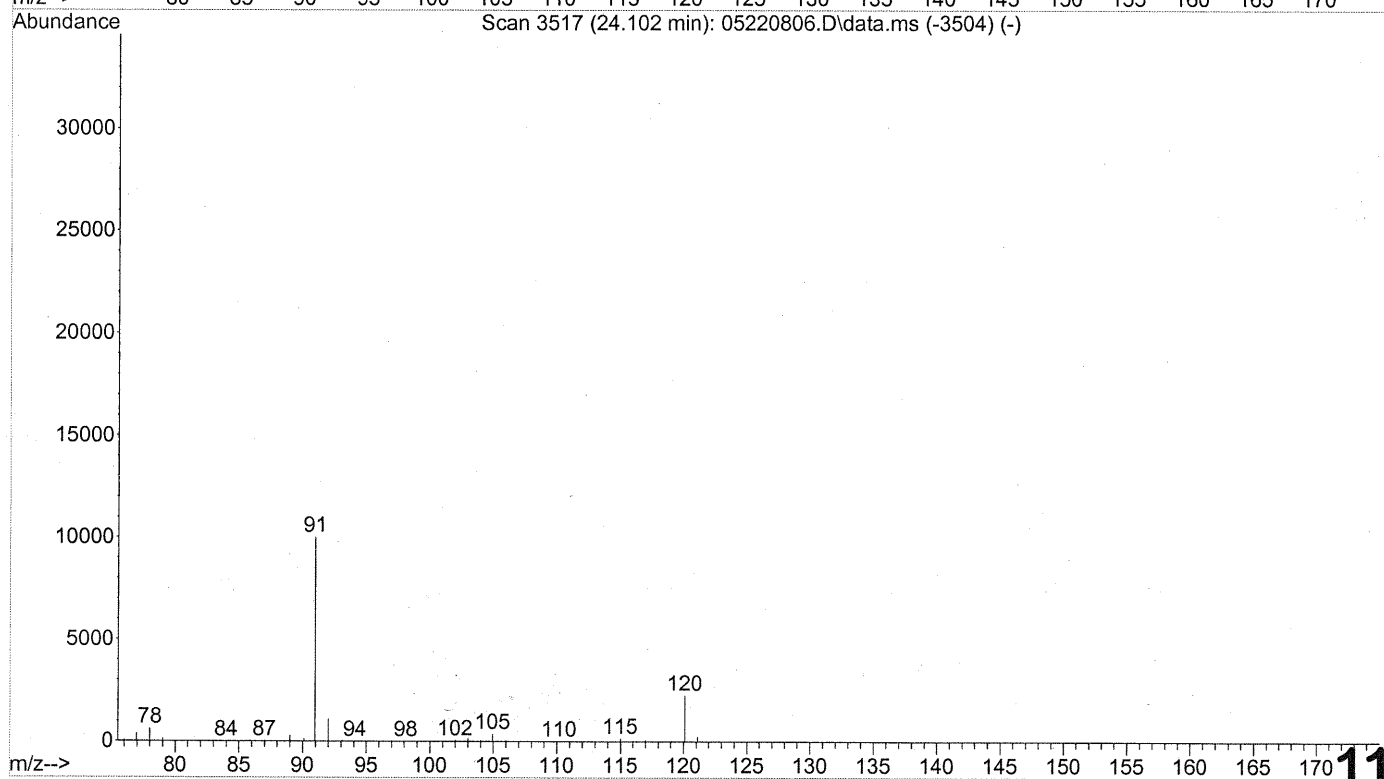
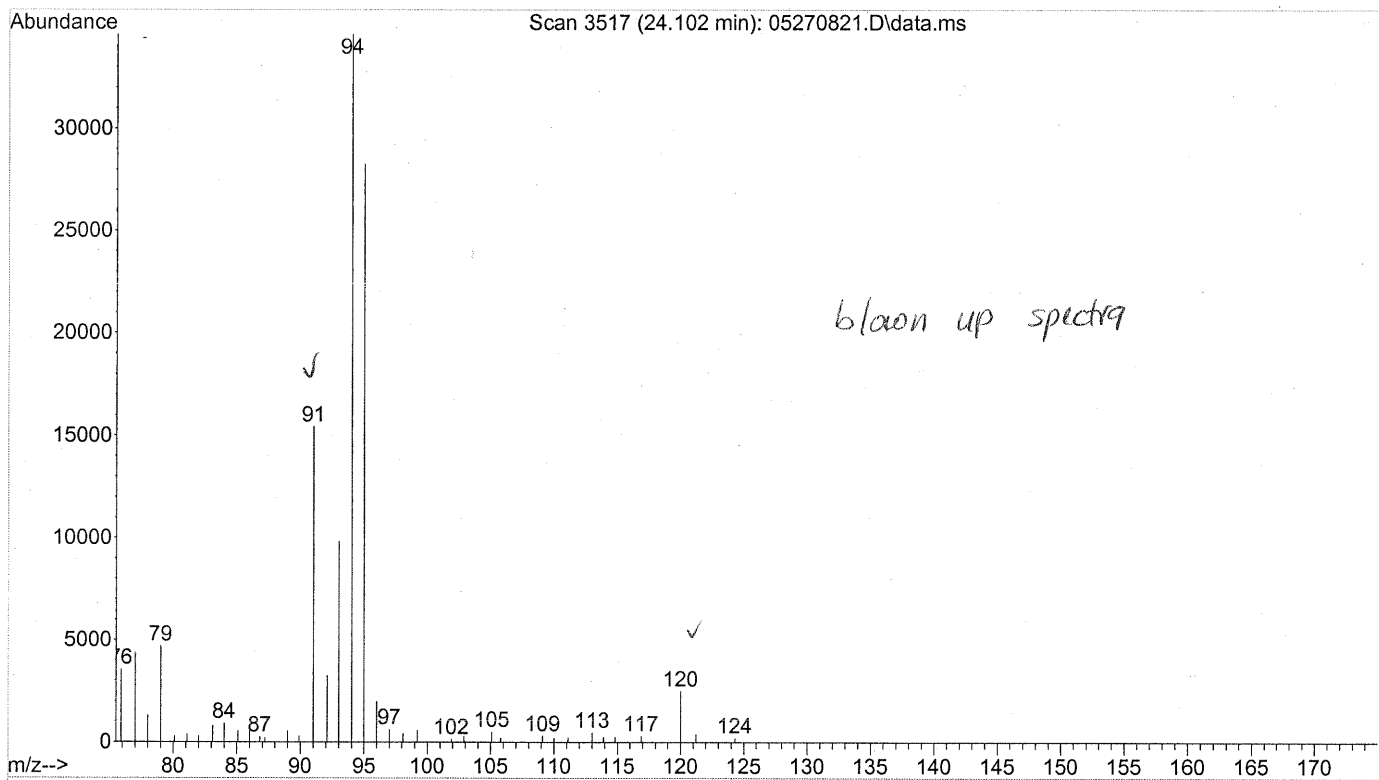
24.102min (+0.000) 0.15ng

response 28710

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 20.47 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

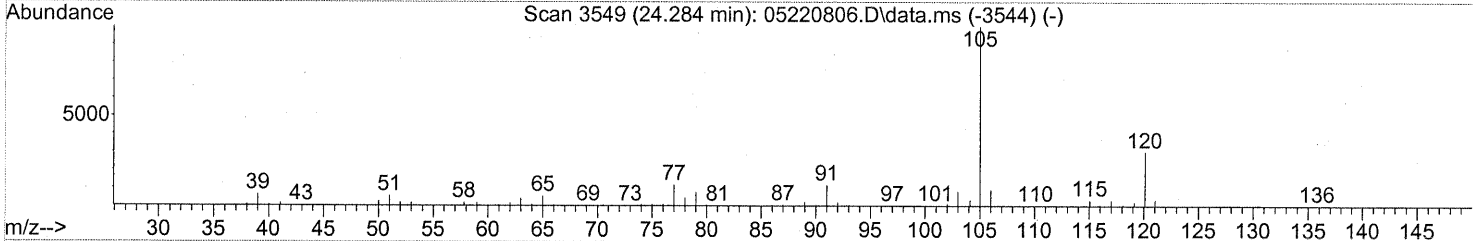
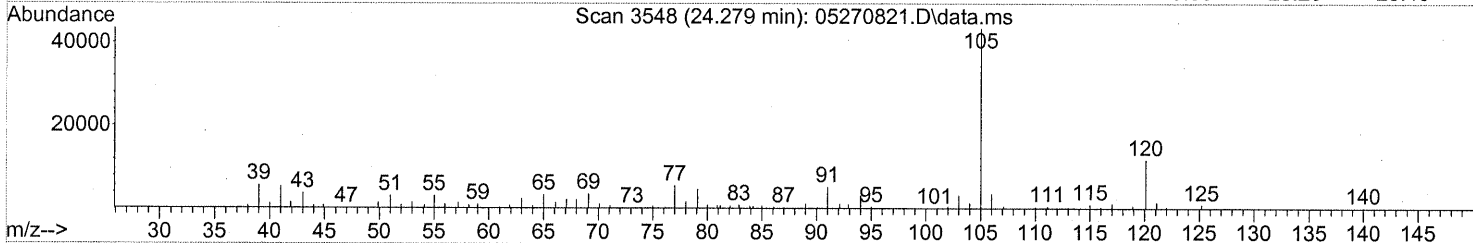
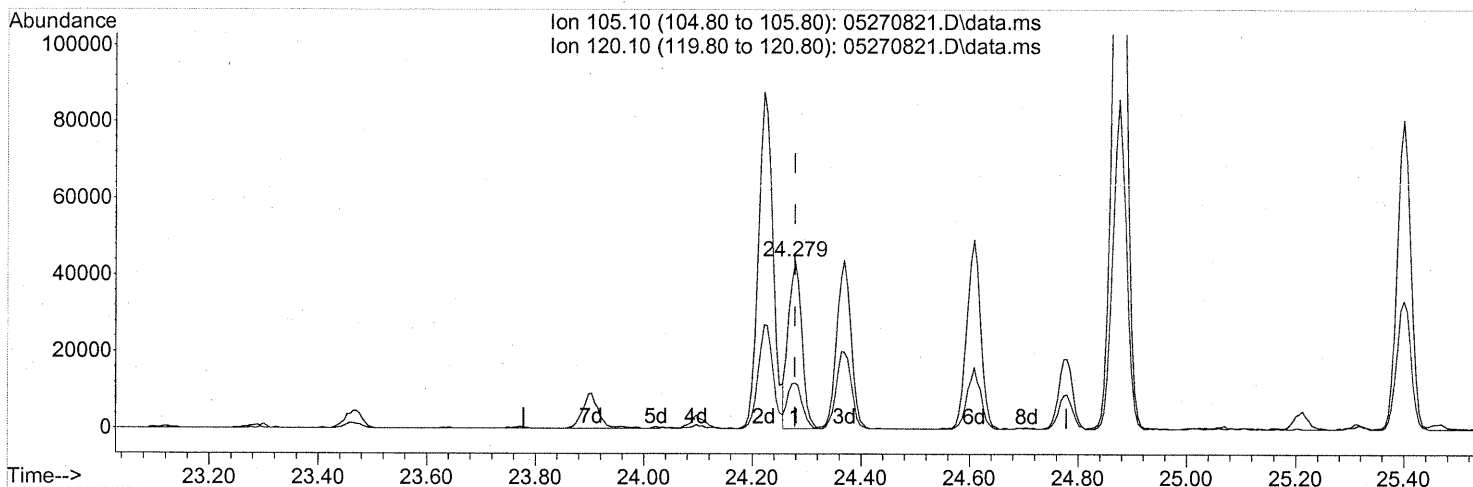
File : J:\MS13\DATA\2008_05\27\05270821.D
Operator : WA
Acquired : 27 May 2008 23:49 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-024 (1000ml)
Misc Info : ENSR SG09B-05 (-3.6, 3.6)
Vial Number: 7



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

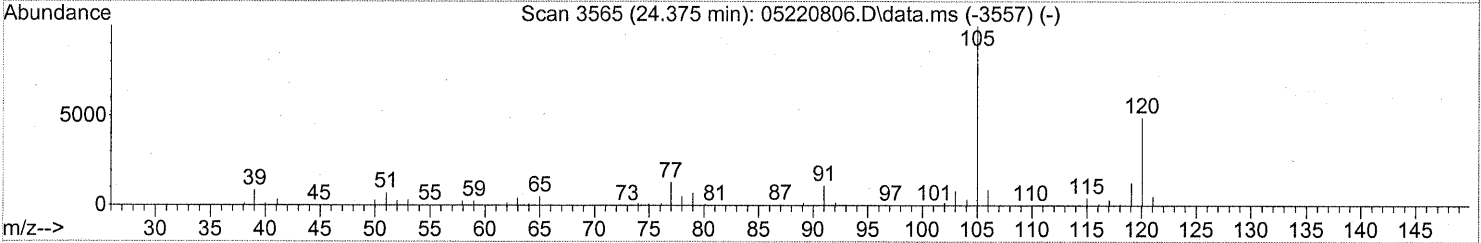
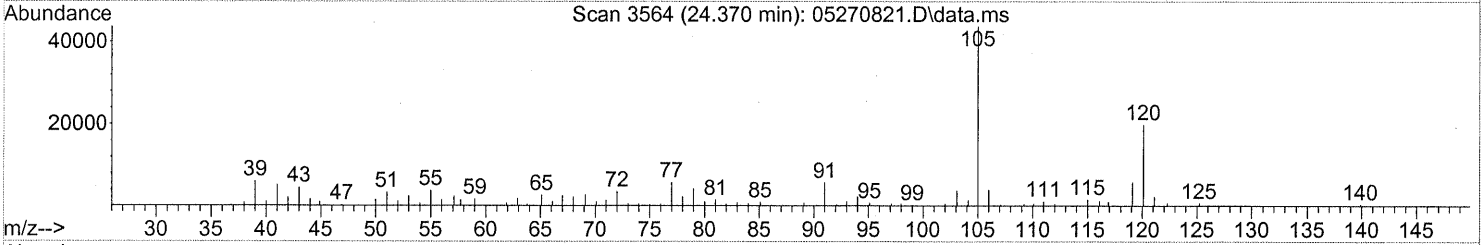
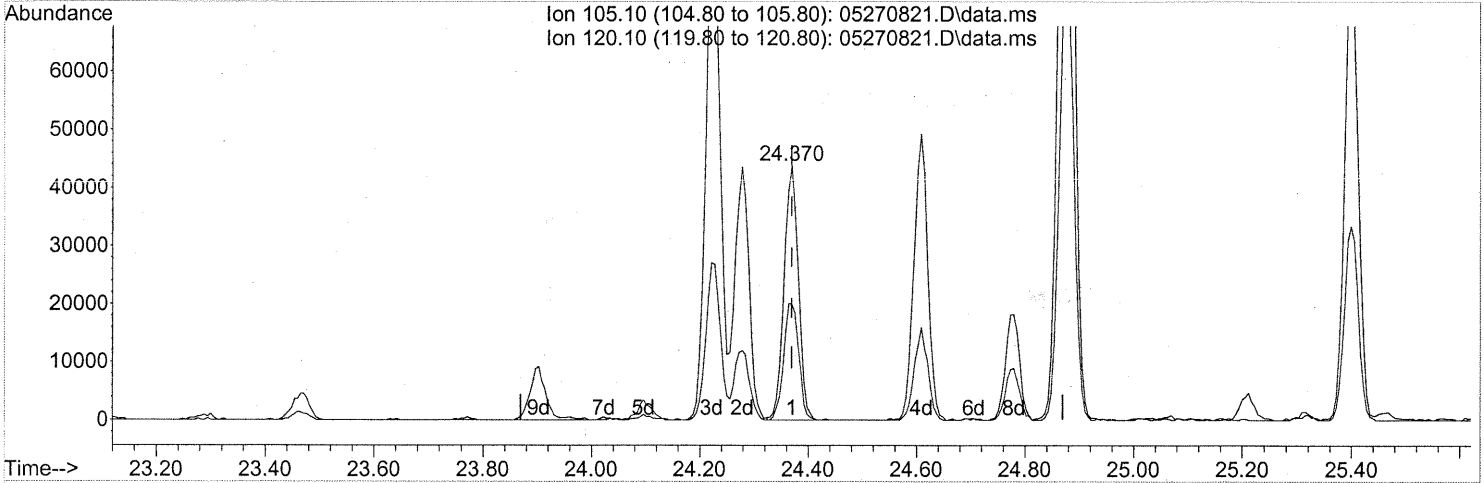
(78) 4-Ethyltoluene (T)
 24.279min (+0.000) 0.49ng
 response 75199

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 29.85 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.370min (+0.000) 0.58ng

response 80346

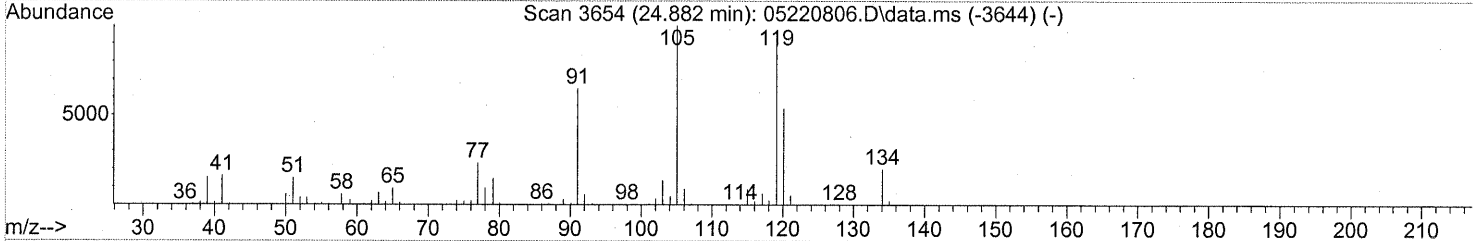
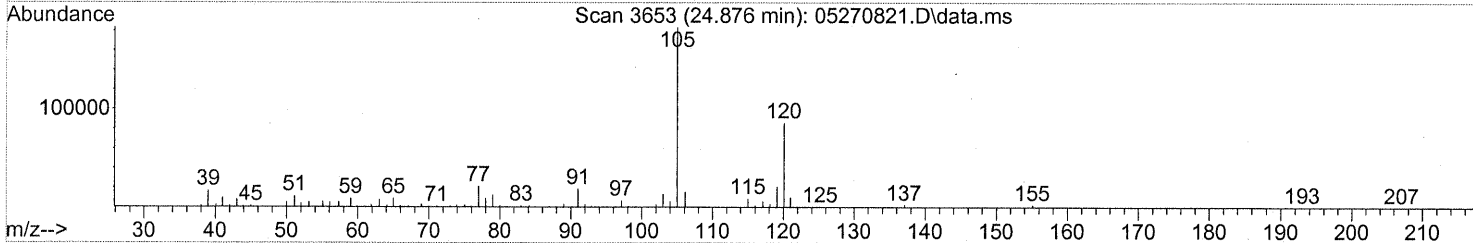
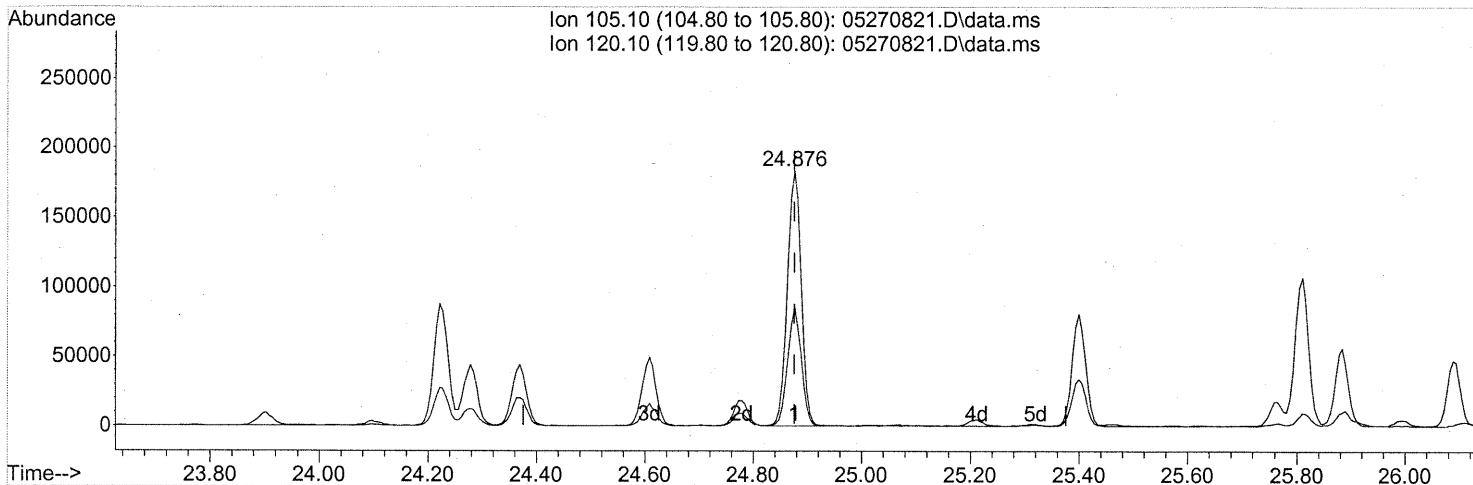
| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 49.40 | 48.19 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1106

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.876min (+0.000) 2.31ng

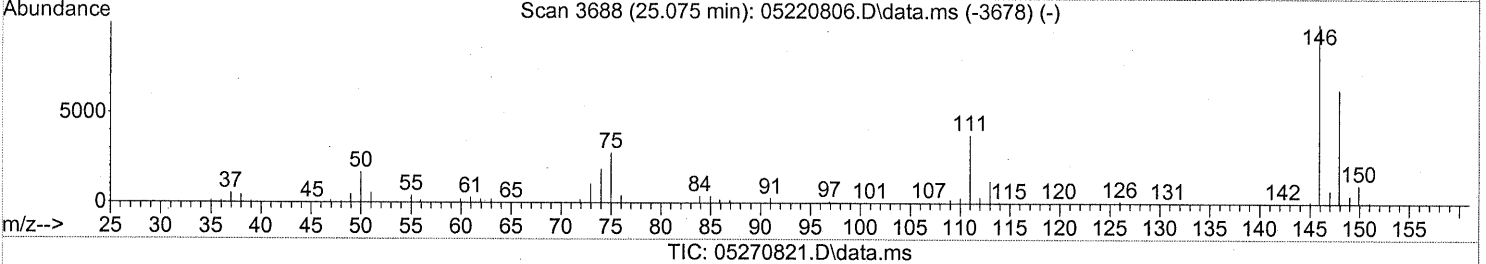
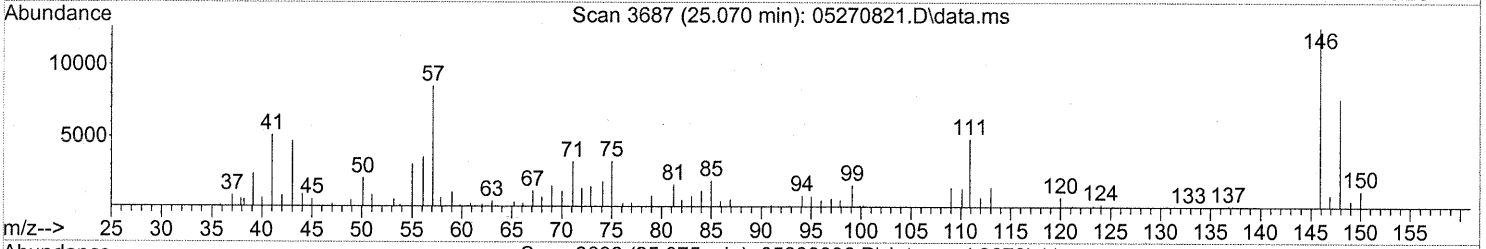
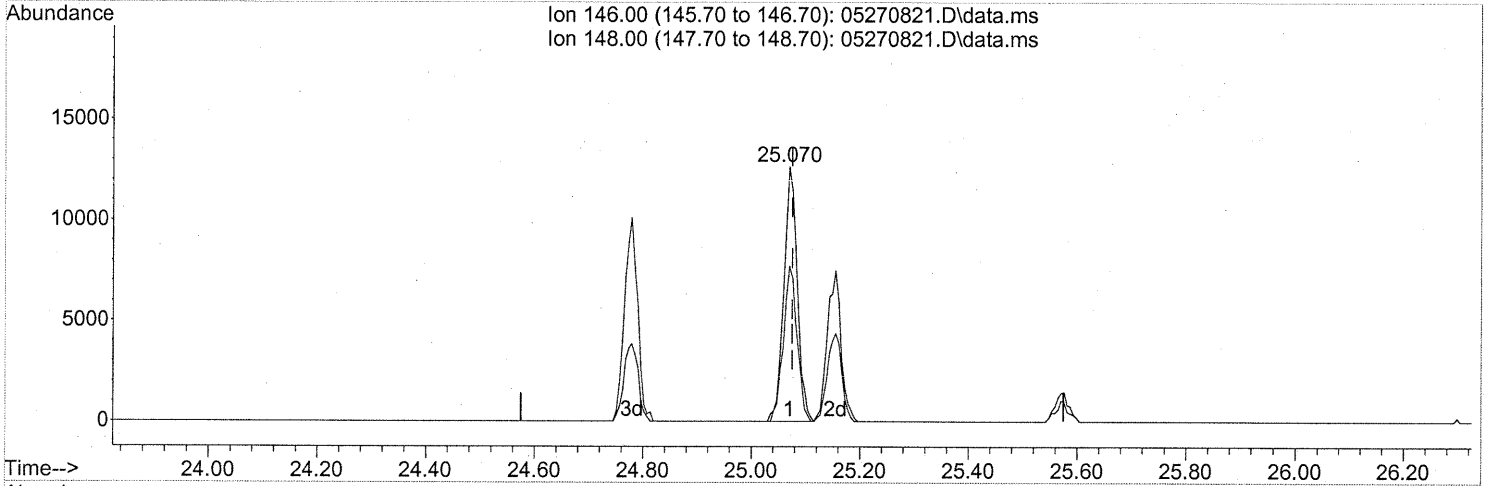
response 324750

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 45.73 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.25ng

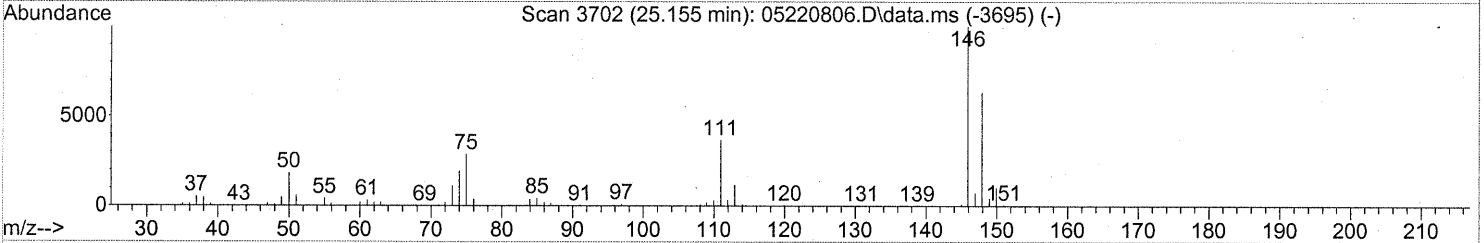
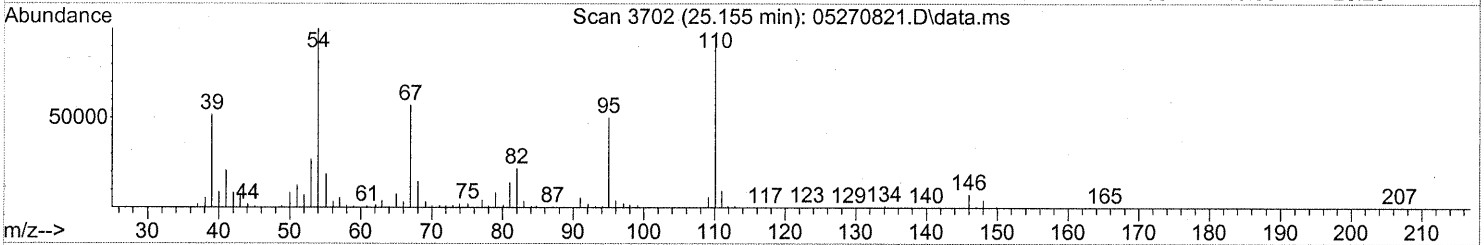
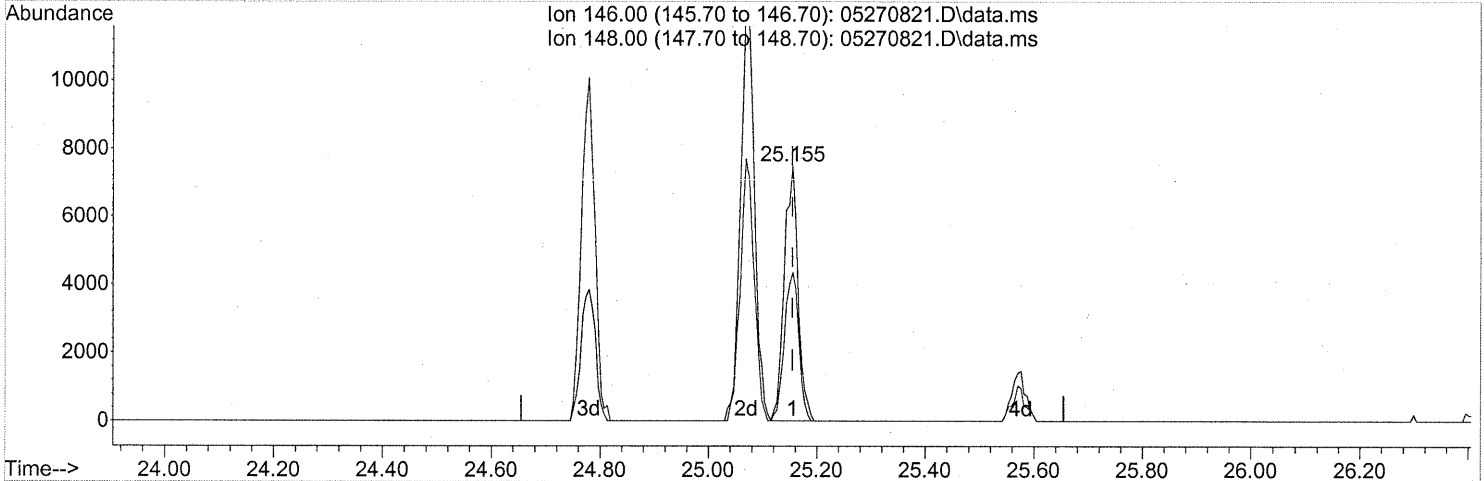
response 21688

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.00 | 62.32 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 0.16ng

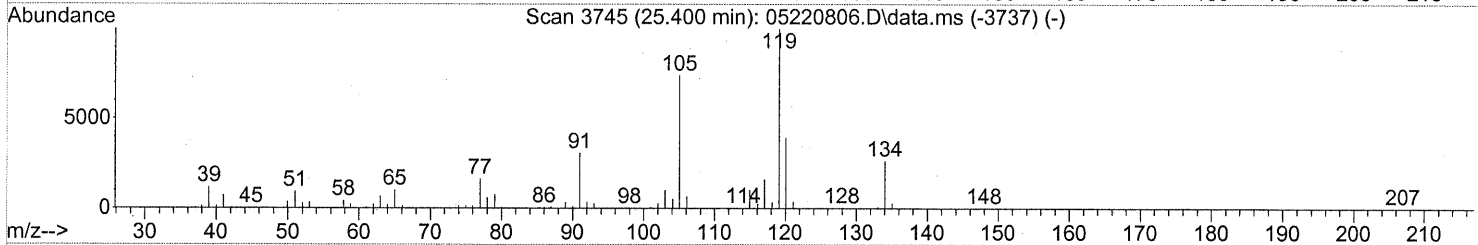
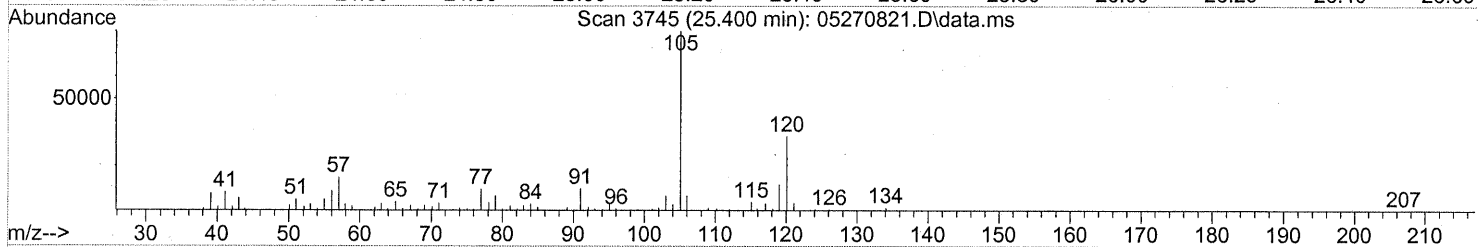
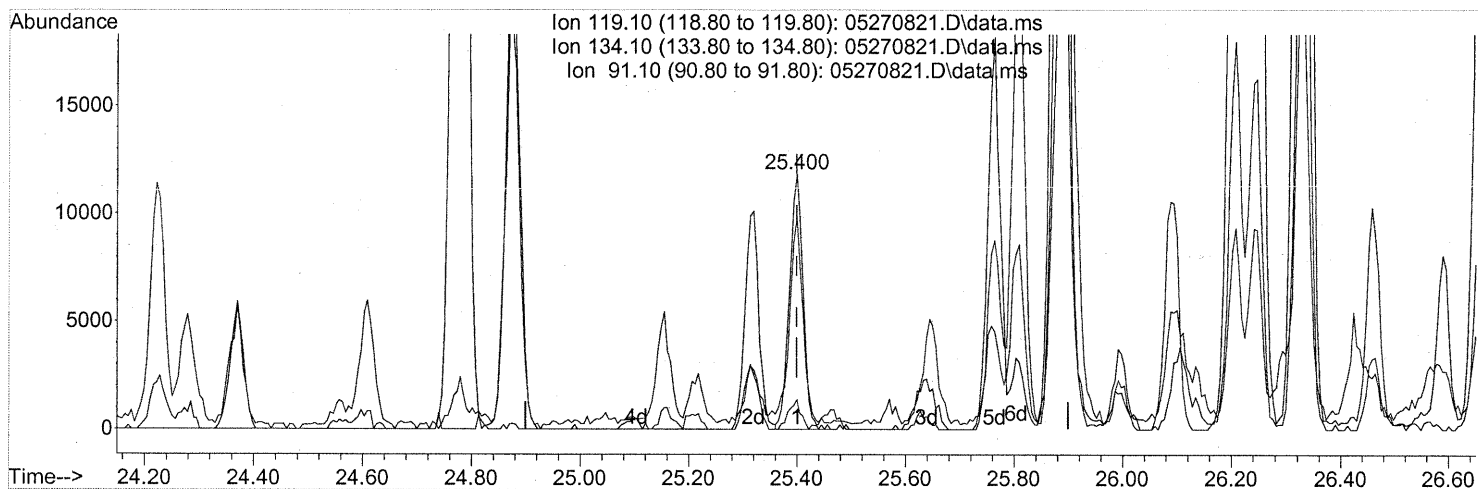
response 13237

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 60.53 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (+0.000) 0.14ng

response 20881

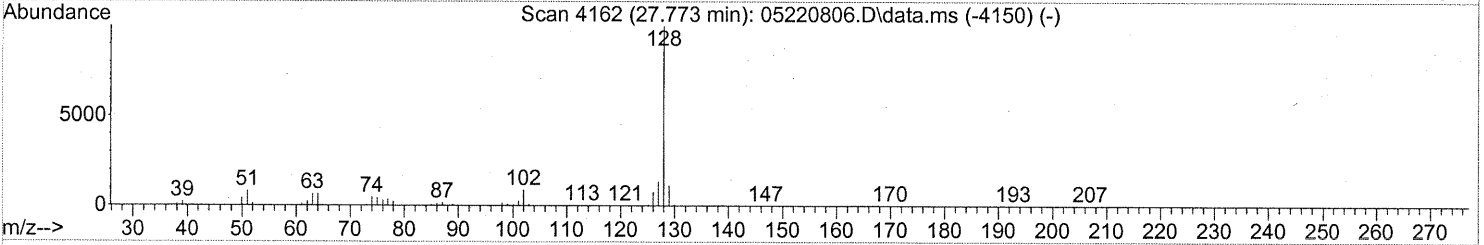
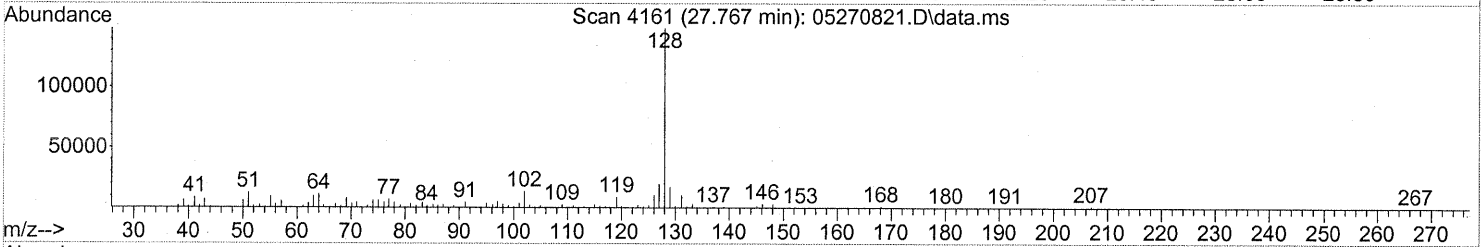
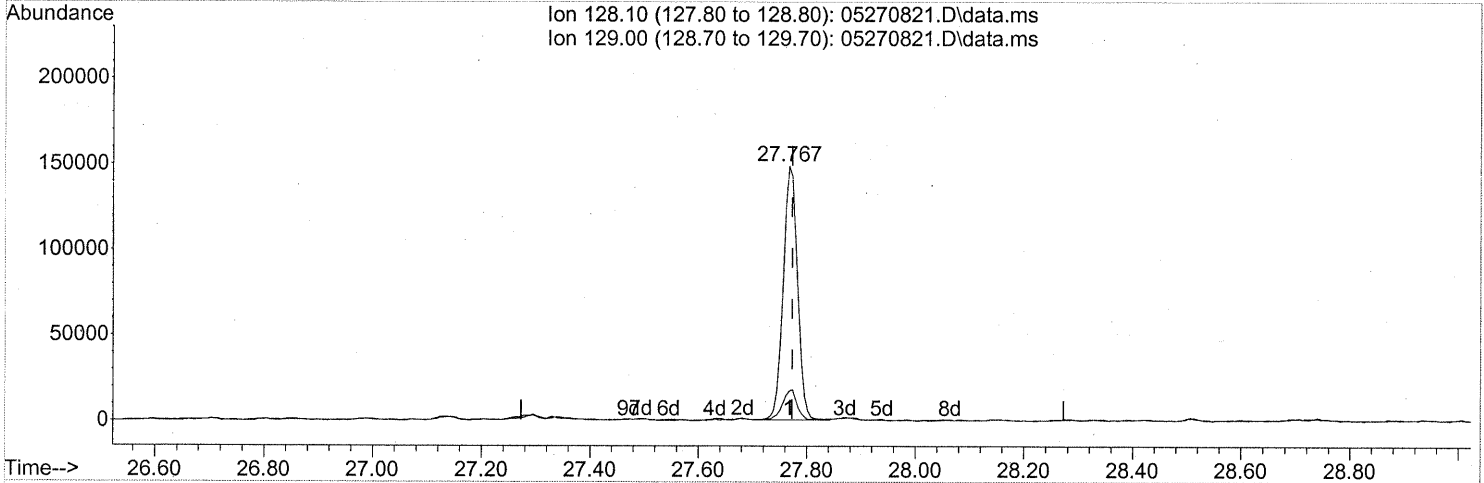
| Ion | Exp% | Act% |
|--------|-------|--------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 10.34 |
| 91.10 | 27.10 | 83.36# |
| 0.00 | 0.00 | 0.00 |

1110

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



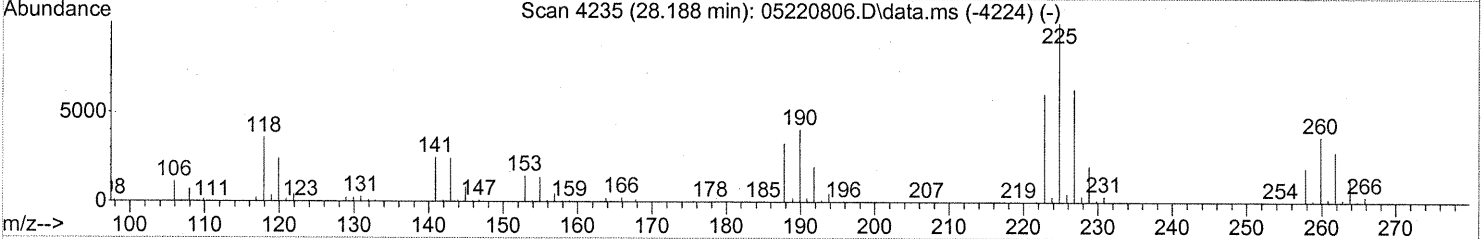
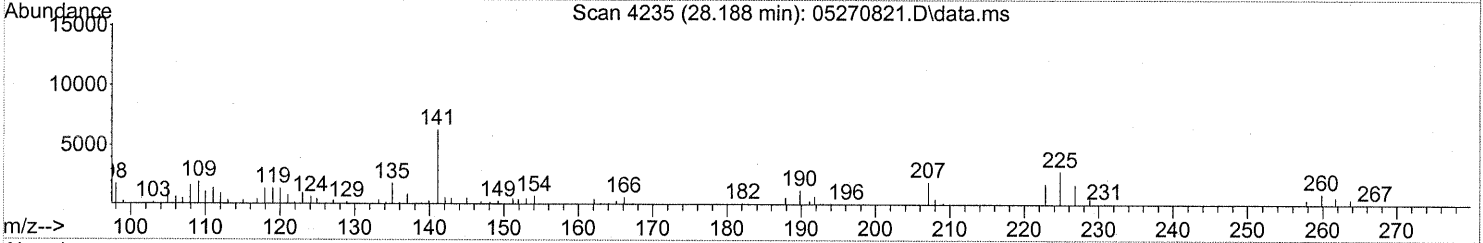
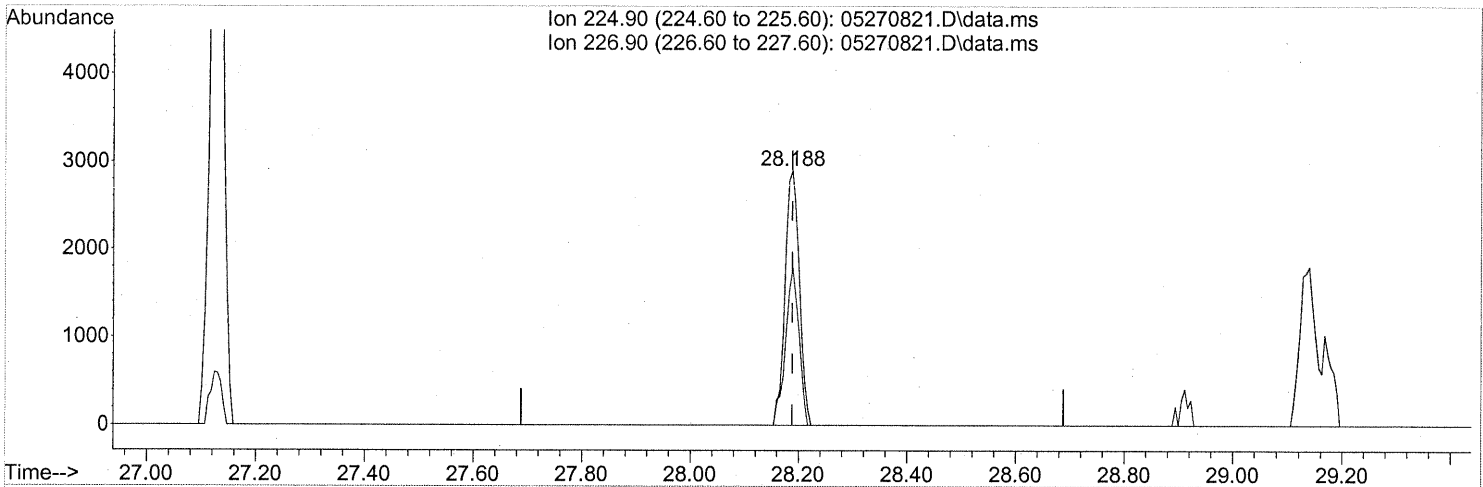
(95) Naphthalene (T)
 27.767min (-0.006) 1.47ng
 response 272104

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 13.06 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1111

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:13:46 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

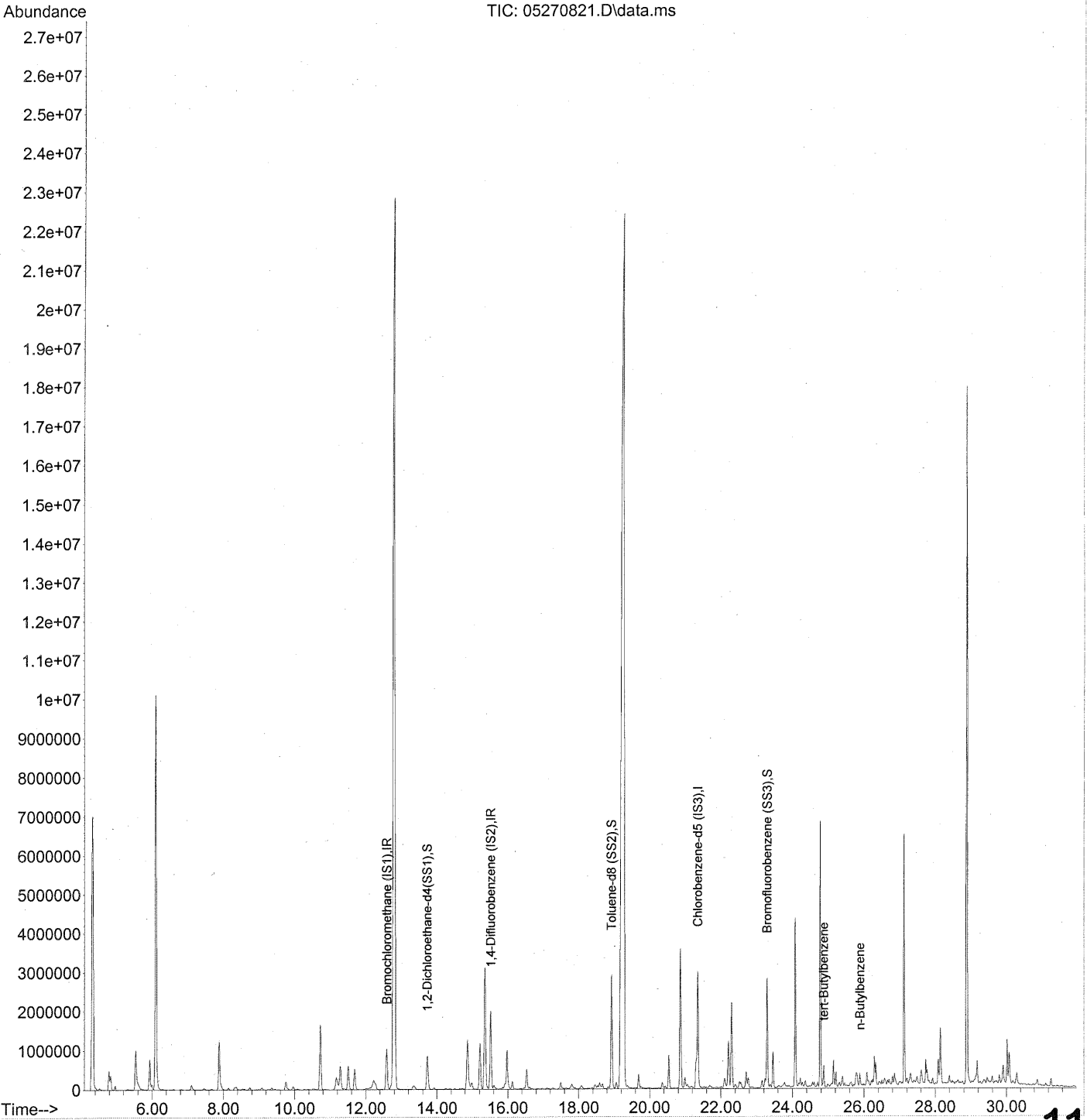
28.188min (+0.000) 0.13ng

response 5271

| Ion | Exp% | Act% |
|--------|-------|-------|
| 224.90 | 100 | 100 |
| 226.90 | 62.80 | 58.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 27 May 2008 11:49 pm
Operator : WA
Sample : P0801483-024 (1000ml)
Misc : ENSR SG09B-05 (-3.6, 3.6)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 13:13:03 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 11:49 pm
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 13:13:03 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

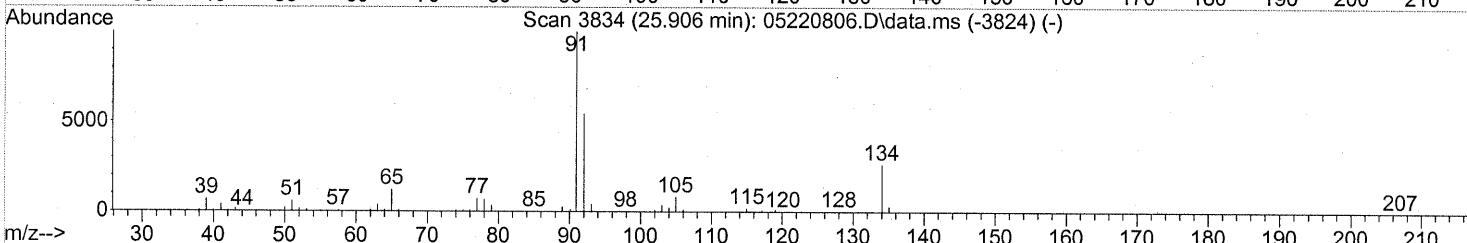
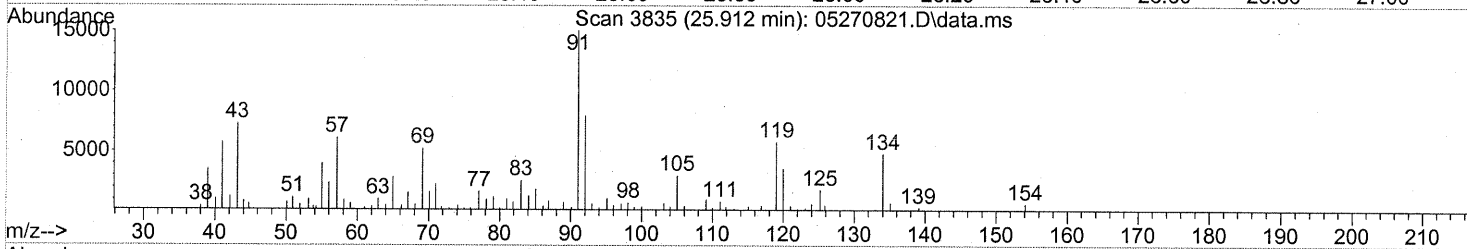
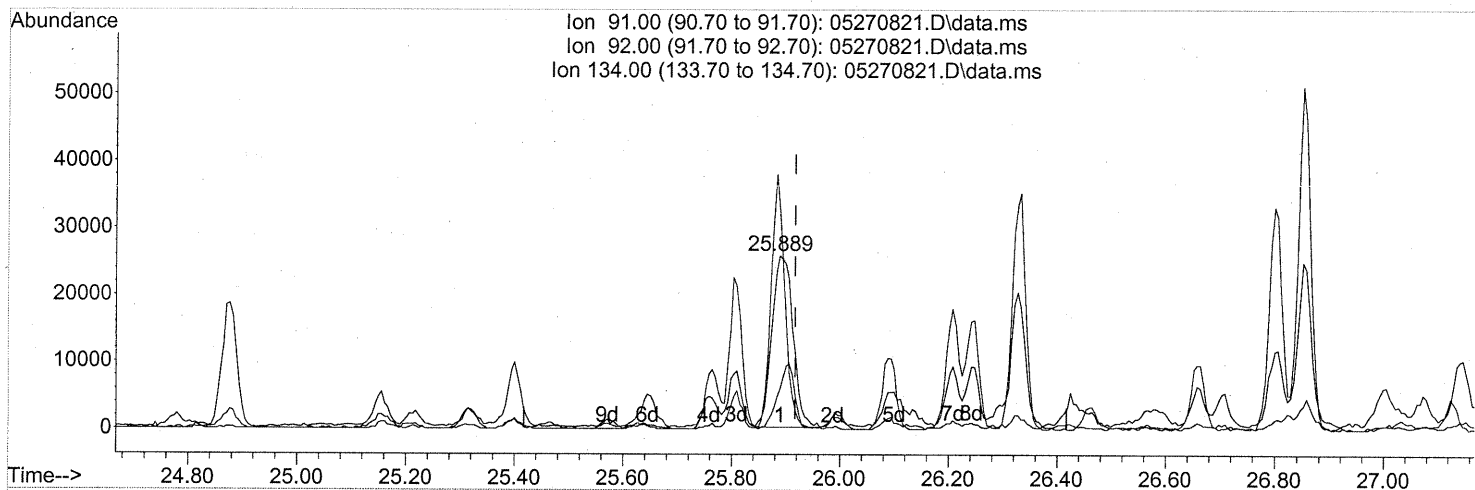
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------------|------|----------|---------------------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 569671 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2383351 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1142118 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 865762 | 21.933 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 87.72% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2476302 | 24.142 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 96.56% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 1067296 | 25.588 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.36% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 40147 | 0.299 ng | NR # | 55 |
| 8) n-Butylbenzene | <u>25.89</u> | 91 | 69281 | <u>0.467</u> ng | M # | 5 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270821.D
 Acq On : 27 May 2008 23:49
 Operator : WA
 Sample : P0801483-024 (1000ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 13:13:03 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05270821.D\data.ms

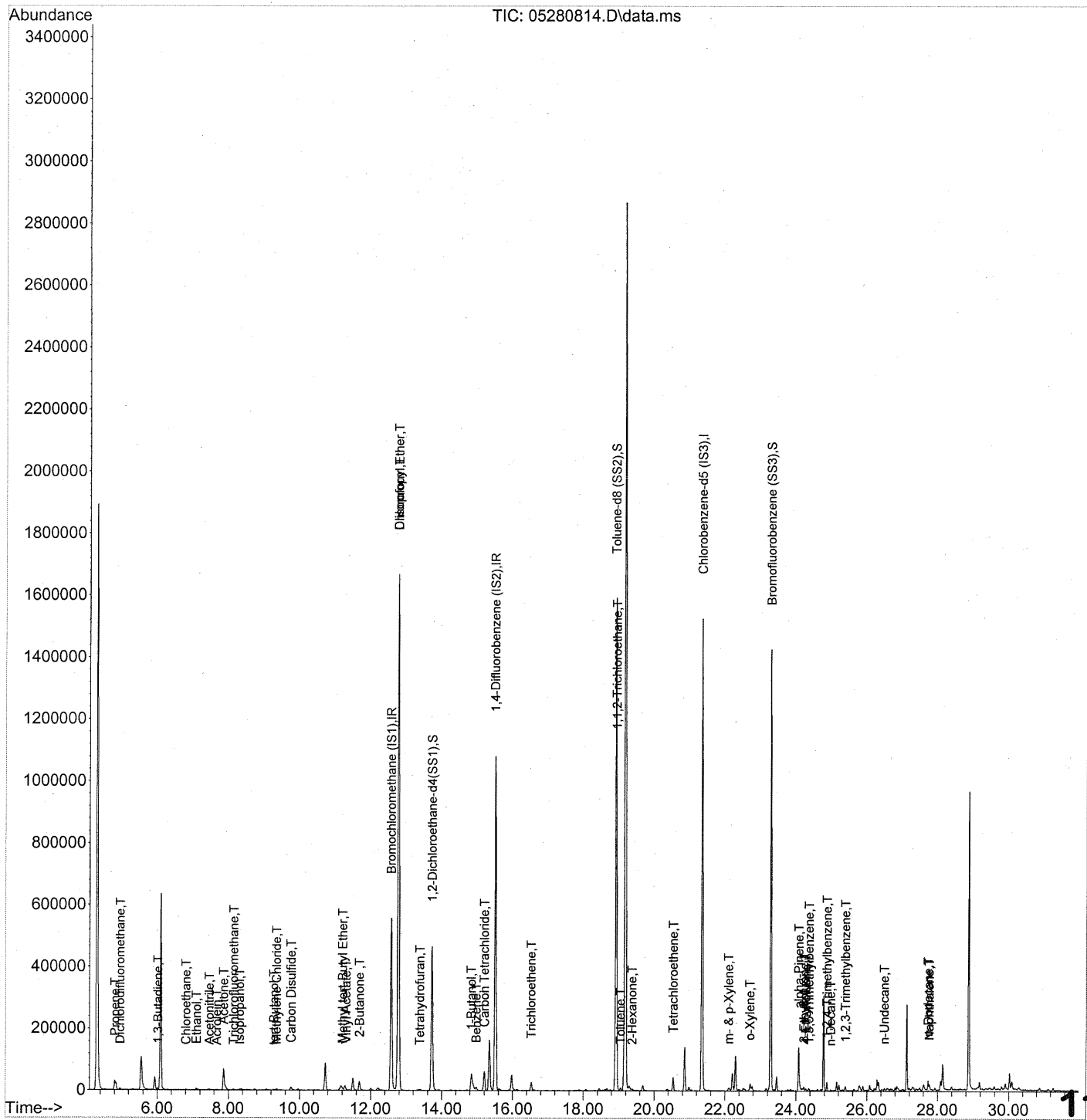
(8) n-Butylbenzene
 25.889min (-0.028) 0.47ng

response 69281

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 0.00# |
| 134.00 | 28.80 | 98.22# |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280814.D
 Acq On : 28 May 2008 20:01
 Operator : WA
 Sample : P0801483-024 Dil (100ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 04:15:51 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1116

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280814.D
 Acq On : 28 May 2008 20:01
 Operator : WA
 Sample : P0801483-024 Dil (100ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 04:15:51 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.57 | 130 | 295481 | 25.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1259827 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 590604 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | | |
|--------------------------------|-------|-----|---------|------------|----|---------|---|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 482910 | 23.587 | ng | 0.00 | |
| Spiked Amount | | | | 25.000 | | | |
| | | | | Recovery = | | 94.36% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1323677 | 24.955 | ng | 0.00 | |
| Spiked Amount | | | | 25.000 | | | |
| | | | | Recovery = | | 99.84% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 546879 | 25.354 | ng | 0.00 | |
| Spiked Amount | | | | 25.000 | | | |
| | | | | Recovery = | | 101.40% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.81 | 42 | 15670 | 0.671 | ng | # 71 |
| 3) Dichlorodifluoromethane | 4.96 | 85 | 5452 | 0.127 | ng | 98 |
| 4) Chloromethane | 0.00 | 50 | 0 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 6.02 | 54 | 2554 | 0.123 | ng | # 53 |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 6.81 | 64 | 1333 | 0.101 | ng | 74 |
| 10) Ethanol | 7.10 | 45 | 9450 | 0.608 | ng | 92 |
| 11) Acetonitrile | 7.46 | 41 | 3895 | 0.087 | ng | # 46 |
| 12) Acrolein | 7.67 | 56 | 1560 | 0.141 | ng | 90 |
| 13) Acetone | 7.87 | 58 | 32494 | 2.043 | ng | # 46 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 2609 | 0.071 | ng | 91 |
| 15) Isopropanol | 8.32 | 45 | 5557 | 0.110 | ng | 78 |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.28 | 59 | 3576 | 0.083 | ng | # 85 |
| 19) Methylene Chloride | 9.36 | 84 | 2062 | 0.116 | ng | 84 |
| 20) Allyl Chloride | 9.44 | 41 | 56 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.82 | 151 | 218 | N.D. | | |
| 22) Carbon Disulfide | 9.76 | 76 | 22540 | 0.334 | ng | # 76 |
| 23) trans-1,2-Dichloroethene | 10.72 | 61 | 1223 | N.D. | | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 61 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.21 | 73 | 7763 | 0.151 | ng | 83 |
| 26) Vinyl Acetate | 11.31 | 86 | 531 | 0.181 | ng | # 52 |
| 27) 2-Butanone | 11.68 | 72 | 11333 | 0.976 | ng | 98 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 182271 | 12.813 | ng | # 1 |
| 30) Ethyl Acetate | 12.71 | 61 | 276 | N.D. | | |
| 31) n-Hexane | 12.69 | 57 | 1060 | N.D. | | |

1117

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280814.D
 Acq On : 28 May 2008 20:01
 Operator : WA
 Sample : P0801483-024 Dil (100ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 04:15:51 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.78 | 83 | 1788973 | 66.395 | ng | 99 |
| 34) Tetrahydrofuran | 13.38 | 72 | 1012 | 0.091 | ng # | 88 |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.72 | 62 | 132 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.84 | 56 | 56210 | 3.246 | ng | 88 |
| 41) Benzene | 14.98 | 78 | 11103 | 0.168 | ng | 98 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 53090 | 2.090 | ng | 98 |
| 43) Cyclohexane | 15.41 | 84 | 514 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 16.45 | 83 | 777 | N.D. | | |
| 47) Trichloroethene | 16.53 | 130 | 12085 | 0.597 | ng | 100 |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 2219 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 16.98 | 71 | 169 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 17.63 | 58 | 172 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 117211 | 7.191 | ng # | 8 |
| 58) Toluene | 19.05 | 91 | 6273 | 0.087 | ng | 95 |
| 59) 2-Hexanone | 19.38 | 43 | 3140 | 0.063 | ng | 76 |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.19 | 43 | 360 | N.D. | | |
| 63) n-Octane | 0.00 | 57 | 0 | N.D. | | |
| 64) Tetrachloroethene | 20.54 | 166 | 16788 | 0.787 | ng | 96 |
| 65) Chlorobenzene | 21.40 | 112 | 144 | N.D. | | |
| 66) Ethylbenzene | 21.89 | 91 | 1420 | N.D. | | |
| 67) m- & p-Xylene | 22.10 | 91 | 6637 | 0.120 | ng | 87 |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.57 | 104 | 374 | N.D. | | |
| 70) o-Xylene | 22.71 | 91 | 5340 | 0.089 | ng | 99 |
| 71) n-Nonane | 22.99 | 43 | 704 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.45 | 83 | 132 | N.D. | | |
| 74) Cumene | 23.46 | 105 | 285 | N.D. | | |
| 75) alpha-Pinene | 24.09 | 93 | 2205 | 0.054 | ng | 87 |
| 76) n-Propylbenzene | 24.10 | 91 | 1620 | N.D. | | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 8179 | 0.097 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 4063 | 0.052 | ng | 98 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 4174 | 0.059 | ng | 92 |

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280814.D
 Acq On : 28 May 2008 20:01
 Operator : WA
 Sample : P0801483-024 Dil (100ml)
 Misc : ENSR SG09B-05 (-3.6, 3.6)
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 04:15:51 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

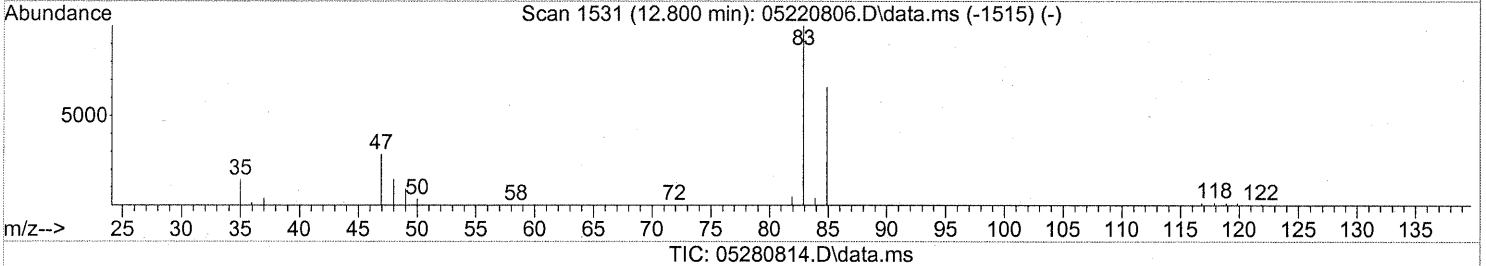
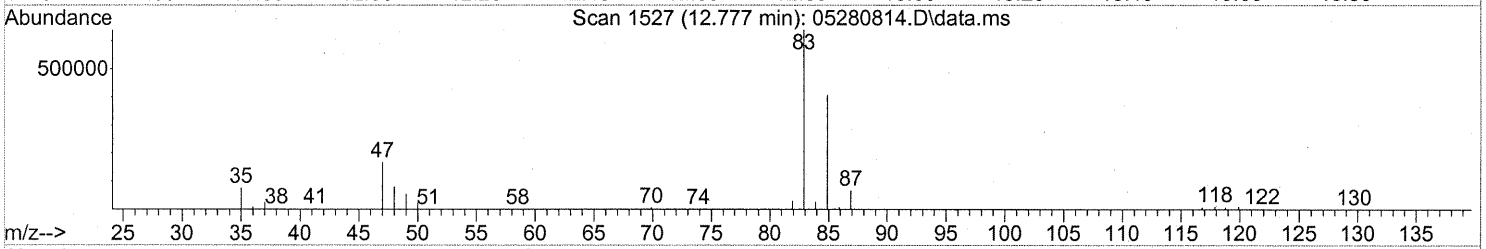
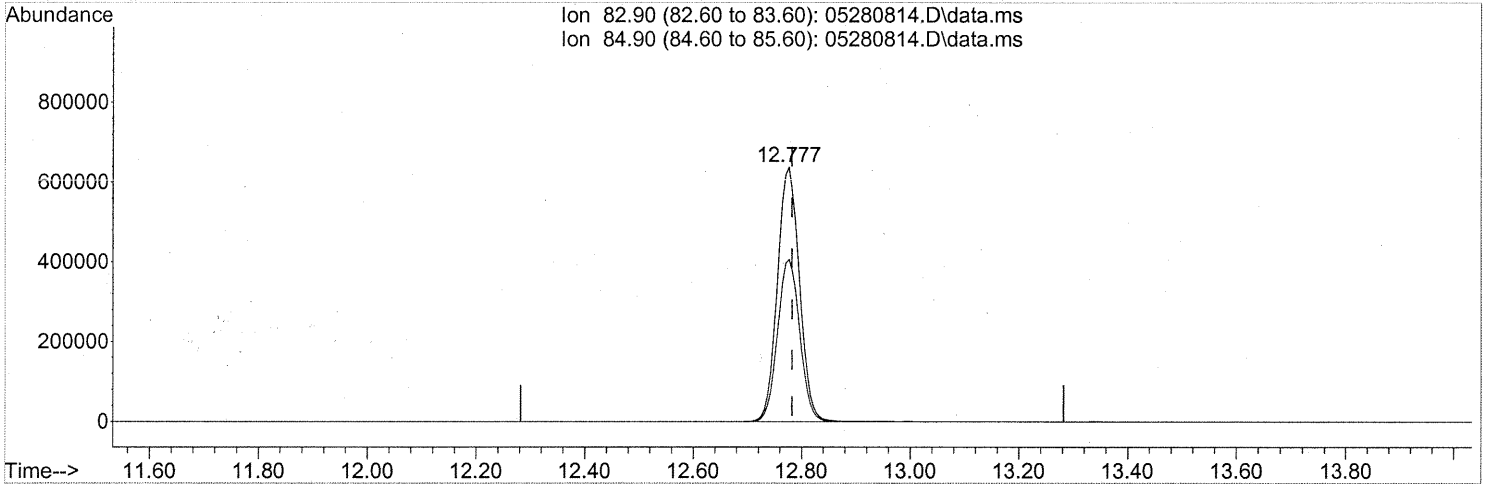
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.57 | 118 | 363 | N.D. | | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 4228 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 15778 | 0.217 | ng | 85 |
| 83) n-Decane | 24.98 | 57 | 2185 | 0.055 | ng | 66 |
| 84) Benzyl Chloride | 25.17 | 91 | 380 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1118 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 807 | N.D. | | |
| 87) sec-Butylbenzene | 25.21 | 105 | 236 | N.D. | | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 947 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 6714 | 0.095 | ng | 89 |
| 90) 1,2-Dichlorobenzene | 25.57 | 146 | 57 | N.D. | | |
| 91) d-Limonene | 25.57 | 68 | 244 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 2430 | 0.058 | ng | # 69 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 142 | N.D. | | |
| 95) Naphthalene | 27.77 | 128 | 13912 | 0.145 | ng | 97 |
| 96) n-Dodecane | 27.73 | 57 | 10701 | 0.258 | ng | 85 |
| 97) Hexachloro-1,3-butadiene | 28.20 | 225 | 99 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280814.D
Acq On : 28 May 2008 20:01
Operator : WA
Sample : P0801483-024 Dil (100ml)
Misc : ENSR SG09B-05 (-3.6, 3.6)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 29 04:15:51 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280814.D\data.ms

(32) Chloroform (T)

12.777min (-0.006) 66.40ng

response 1788973

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 63.93 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG11B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-025

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00953

Date Collected: 5/18/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.74 | 0.074 | 0.42 | 0.15 | 0.015 | |
| 74-87-3 | Chloromethane | 0.076 | 0.15 | 0.074 | 0.037 | 0.071 | 0.036 | J |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 0.10 | 0.74 | 0.074 | 0.015 | 0.11 | 0.011 | J |
| 75-01-4 | Vinyl Chloride | ND | 0.15 | 0.074 | ND | 0.058 | 0.029 | |
| 74-83-9 | Bromomethane | ND | 0.15 | 0.074 | ND | 0.038 | 0.019 | |
| 75-00-3 | Chloroethane | 0.15 | 0.15 | 0.074 | 0.055 | 0.056 | 0.028 | J |
| 64-17-5 | Ethanol | 16 | 7.4 | 0.074 | 8.3 | 3.9 | 0.039 | B |
| 67-64-1 | Acetone | 50 | 7.4 | 0.11 | 21 | 3.1 | 0.045 | B |
| 75-69-4 | Trichlorofluoromethane | 1.1 | 0.15 | 0.074 | 0.19 | 0.026 | 0.013 | |
| 107-13-1 | Acrylonitrile | 0.12 | 0.74 | 0.10 | 0.056 | 0.34 | 0.047 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.10 | 0.15 | 0.074 | 0.025 | 0.037 | 0.019 | J |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.67 | 0.74 | 0.11 | 0.22 | 0.24 | 0.036 | J |
| 75-09-2 | Methylene Chloride | 0.68 | 0.74 | 0.074 | 0.20 | 0.21 | 0.021 | J |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.15 | 0.074 | ND | 0.047 | 0.023 | |
| 76-13-1 | Trichlorotrifluoroethane | 0.48 | 0.15 | 0.082 | 0.062 | 0.019 | 0.011 | |
| 75-15-0 | Carbon Disulfide | 1.4 | 0.74 | 0.18 | 0.46 | 0.24 | 0.057 | B |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.15 | 0.074 | ND | 0.037 | 0.019 | |
| 75-34-3 | 1,1-Dichloroethane | 0.11 | 0.15 | 0.074 | 0.026 | 0.036 | 0.018 | J |
| 1634-04-4 | Methyl tert-Butyl Ether | 7.8 | 0.15 | 0.074 | 2.2 | 0.041 | 0.020 | |
| 108-05-4 | Vinyl Acetate | 5.0 | 7.4 | 0.24 | 1.4 | 2.1 | 0.067 | J, B |
| 78-93-3 | 2-Butanone (MEK) | 8.9 | 0.74 | 0.074 | 3.0 | 0.25 | 0.025 | B |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.15 | 0.074 | ND | 0.037 | 0.019 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.74 | 0.087 | ND | 0.18 | 0.021 | |
| 67-66-3 | Chloroform | 400 | 0.15 | 0.087 | 83 | 0.030 | 0.018 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08 **1121**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG11B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-025

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00953

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|-----------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.74 | 0.075 | ND | 0.18 | 0.018 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.15 | 0.074 | ND | 0.036 | 0.018 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.15 | 0.074 | ND | 0.027 | 0.013 | |
| 71-43-2 | Benzene | 2.0 | 0.15 | 0.074 | 0.61 | 0.046 | 0.023 | |
| 56-23-5 | Carbon Tetrachloride | 11 | 0.15 | 0.074 | 1.7 | 0.023 | 0.012 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.74 | 0.074 | ND | 0.18 | 0.018 | |
| 78-87-5 | 1,2-Dichloropropane | 0.14 | 0.15 | 0.074 | 0.030 | 0.032 | 0.016 | J |
| 75-27-4 | Bromodichloromethane | 0.33 | 0.15 | 0.074 | 0.049 | 0.022 | 0.011 | |
| 79-01-6 | Trichloroethene | 1.0 | 0.15 | 0.074 | 0.19 | 0.027 | 0.014 | |
| 123-91-1 | 1,4-Dioxane | 0.14 | 0.74 | 0.090 | 0.038 | 0.20 | 0.025 | J |
| 80-62-6 | Methyl Methacrylate | ND | 0.74 | 0.11 | ND | 0.18 | 0.027 | |
| 142-82-5 | n-Heptane | 0.58 | 0.74 | 0.094 | 0.14 | 0.18 | 0.023 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.74 | 0.076 | ND | 0.16 | 0.017 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.35 | 0.74 | 0.082 | 0.086 | 0.18 | 0.020 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.74 | 0.093 | ND | 0.16 | 0.020 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.15 | 0.074 | ND | 0.027 | 0.013 | |
| 108-88-3 | Toluene | 1.8 | 0.74 | 0.074 | 0.49 | 0.20 | 0.020 | |
| 591-78-6 | 2-Hexanone | 0.46 | 0.74 | 0.11 | 0.11 | 0.18 | 0.027 | J |
| 124-48-1 | Dibromochloromethane | ND | 0.15 | 0.10 | ND | 0.017 | 0.012 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.15 | 0.079 | ND | 0.019 | 0.010 | |
| 111-65-9 | n-Octane | 0.27 | 0.74 | 0.074 | 0.057 | 0.16 | 0.016 | J |
| 127-18-4 | Tetrachloroethene | 7.2 | 0.15 | 0.074 | 1.1 | 0.022 | 0.011 | |
| 108-90-7 | Chlorobenzene | ND | 0.15 | 0.075 | ND | 0.032 | 0.016 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08 **1122**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG11B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-025

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00953

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -2.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.47

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 0.21 | 0.74 | 0.091 | 0.049 | 0.17 | 0.021 | J |
| 179601-23-1 | m,p-Xylenes | 0.64 | 0.74 | 0.19 | 0.15 | 0.17 | 0.044 | J |
| 75-25-2 | Bromoform | ND | 0.74 | 0.11 | ND | 0.071 | 0.011 | |
| 100-42-5 | Styrene | 0.30 | 0.74 | 0.11 | 0.070 | 0.17 | 0.026 | J |
| 95-47-6 | o-Xylene | 0.29 | 0.74 | 0.093 | 0.067 | 0.17 | 0.021 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.15 | 0.094 | ND | 0.021 | 0.014 | |
| 98-82-8 | Cumene | ND | 0.74 | 0.082 | ND | 0.15 | 0.017 | |
| 103-65-1 | n-Propylbenzene | 0.084 | 0.74 | 0.076 | 0.017 | 0.15 | 0.016 | J |
| 622-96-8 | 4-Ethyltoluene | 0.11 | 0.74 | 0.084 | 0.023 | 0.15 | 0.017 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.090 | 0.74 | 0.088 | 0.018 | 0.15 | 0.018 | J |
| 98-83-9 | alpha-Methylstyrene | ND | 0.74 | 0.11 | ND | 0.15 | 0.022 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.36 | 0.74 | 0.10 | 0.073 | 0.15 | 0.021 | J |
| 100-44-7 | Benzyl Chloride | ND | 0.15 | 0.13 | ND | 0.028 | 0.024 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.18 | 0.15 | 0.091 | 0.031 | 0.024 | 0.015 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.76 | 0.15 | 0.082 | 0.13 | 0.024 | 0.014 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.74 | 0.085 | ND | 0.13 | 0.016 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.16 | 0.74 | 0.096 | 0.029 | 0.13 | 0.017 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.15 | 0.097 | ND | 0.024 | 0.016 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.74 | 0.11 | ND | 0.076 | 0.012 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.15 | 0.11 | ND | 0.020 | 0.015 | |
| 91-20-3 | Naphthalene | 0.76 | 0.29 | 0.11 | 0.14 | 0.056 | 0.021 | |
| 87-68-3 | Hexachlorobutadiene | 1.0 | 0.15 | 0.13 | 0.098 | 0.014 | 0.012 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.29 | 0.074 | ND | 0.054 | 0.013 | |
| 104-51-8 | n-Butylbenzene | 0.21 | 0.29 | 0.074 | 0.038 | 0.054 | 0.013 | J |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

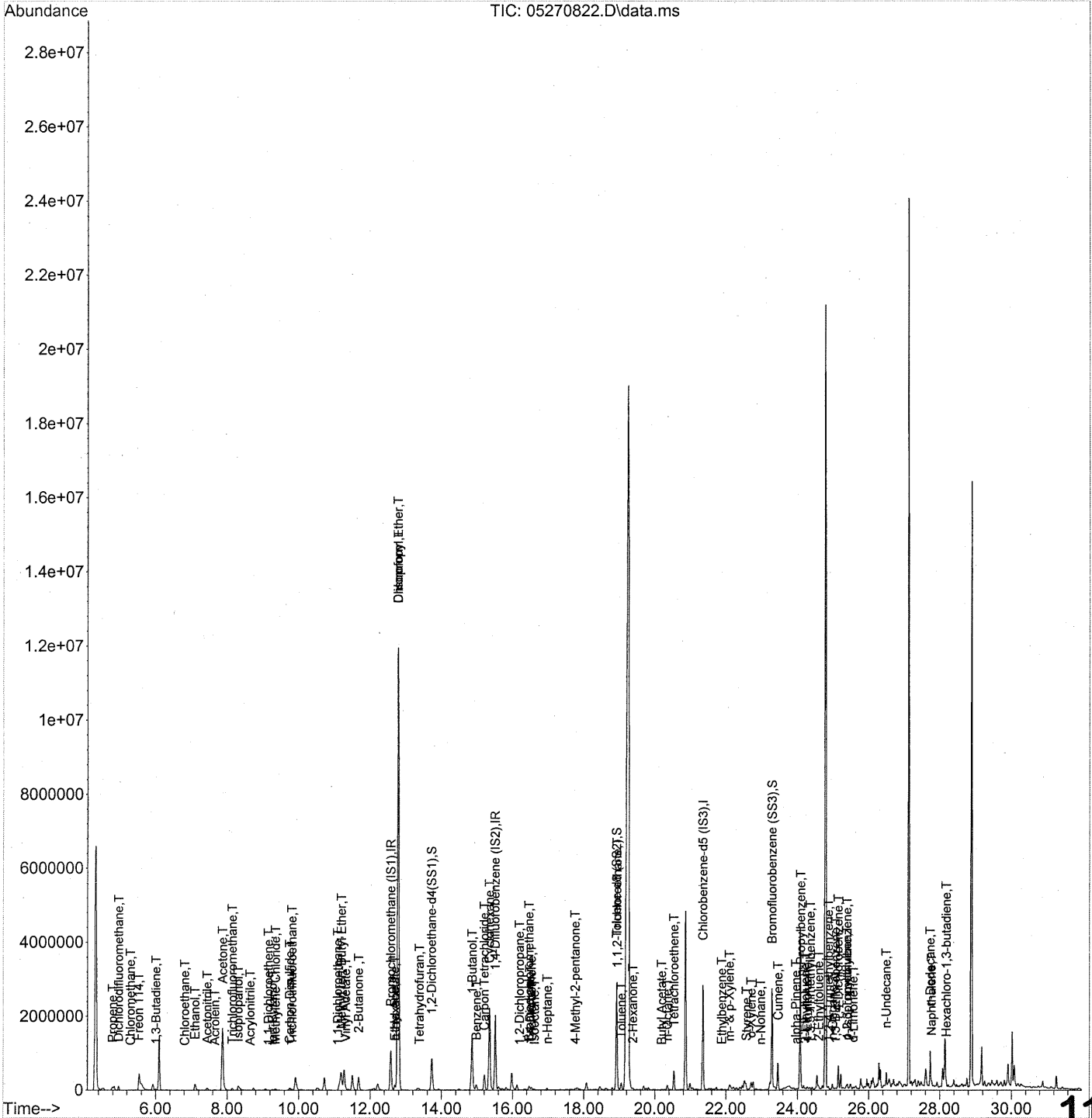
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/9/08 **1123**

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:21:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1124

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:21:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 572443 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2406322 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1114220 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|------------|---------|----|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 875923 | 22.083 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 88.32% | | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2453118 | 24.515 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 98.04% | | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 1049285 | 25.786 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 103.16% | | ✓ |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 52952 | 1.171 | ng | # 79 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 117010 | 1.404 | ng | 100 |
| 4) Chloromethane | 5.30 | 50 | 2812 | 0.052 | ng | 80 |
| 5) Freon 114 | 5.52 | 135 | 2906 | 0.071 | ng | 97 |
| 6) Vinyl Chloride | 5.75 | 62 | 706 | N.D. | | ✓ |
| 7) 1,3-Butadiene | 6.01 | 54 | 15004 | 0.374 | ng | # 83 |
| 8) Bromomethane | 6.49 | 94 | 730 | N.D. | | ✓ |
| 9) Chloroethane | 6.82 | 64 | 2549 | 0.099 | ng | 91 |
| 10) Ethanol | 7.10 | 45 | 318206m | 10.572 | ng | |
| 11) Acetonitrile | 7.44 | 41 | 95787 | 1.101 | ng | 99 |
| 12) Acrolein | 7.66 | 56 | 17995 | 0.837 | ng | 95 |
| 13) Acetone | 7.87 | 58 | 1038868 | 33.712 | ng | # 82 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 52782 | 0.738 | ng | 99 |
| 15) Isopropanol | 8.32 | 45 | 262840 | 2.674 | ng | 96 |
| 16) Acrylonitrile | 8.65 | 53 | 3835 | 0.082 | ng | 85 |
| 17) 1,1-Dichloroethene | 9.15 | 96 | 2123 | 0.068 | ng | # 81 |
| 18) tert-Butanol | 9.27 | 59 | 38209 | 0.457 | ng | 93 |
| 19) Methylene Chloride | 9.36 | 84 | 16008 | 0.465 | ng | # 78 |
| 20) Allyl Chloride | 9.54 | 41 | 1409 | N.D. | | ✓ |
| 21) Trichlorotrifluoroethane | 9.82 | 151 | 10577 | 0.325 | ng | 100 |
| 22) Carbon Disulfide | 9.76 | 76 | 126382 | 0.967 | ng | 100 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 109 | N.D. | | ✓ |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 4302 | 0.072 | ng | 75 |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 528052 | 5.299 | ng | 86 |
| 26) Vinyl Acetate | 11.32 | 86 | 19248 | 3.380 | ng | # 1 |
| 27) 2-Butanone | 11.68 | 72 | 135847 | 6.040 | ng | # 92 |
| 28) cis-1,2-Dichloroethene | 12.11 | 61 | 332 | N.D. | | ✓ |
| 29) Diisopropyl Ether | 12.79 | 87 | 1490238 | 54.073 | ng | NR # 1 |
| 30) Ethyl Acetate | 12.69 | 61 | 21810 | 1.796 | ng | 82 |
| 31) n-Hexane | 12.70 | 57 | 19048 | 0.311 | ng | 85 |

1125

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:21:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------------------|-------|-----------|
| 32) Chloroform | 12.79 | 83 | 13401253 | 256.730 | ng | 98 |
| 34) Tetrahydrofuran | 13.38 | 72 | 10930 | 0.508 | ng | # 74 |
| 35) Ethyl tert-Butyl Ether | 13.49 | 87 | 497 | N.D. | ✓ | |
| 36) 1,2-Dichloroethane | 13.88 | 62 | 1289 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1838 | N.D. | ✓ | |
| 39) Isopropyl Acetate | 14.85 | 61 | 81 | N.D. | | |
| 40) 1-Butanol | 14.87 | 56 | 1250502 | 37.808 | ng | 84 |
| 41) Benzene | 14.99 | 78 | 168040 | 1.334 | ng | 100 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 357655 | 7.371 | ng | 99 |
| 43) Cyclohexane | 15.35 | 84 | 108196 | 2.207 | ng | # 1 |
| 44) tert-Amyl Methyl Ether | 15.88 | 73 | 3960 | N.D. | ✓ | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 3139 | 0.093 | ng | 79 |
| 46) Bromodichloromethane | 16.46 | 83 | 9558 | 0.224 | ng | 99 |
| 47) Trichloroethene | 16.53 | 130 | 27192 | 0.704 | ng | 97 |
| 48) 1,4-Dioxane | 16.49 | 88 | 2177 | 0.092 | ng | # 46 |
| 49) Isooctane | 16.62 | 57 | 19005 | 0.132 | ng | # 33 |
| 50) Methyl Methacrylate | 16.72 | 100 | 64 | N.D. | ✓ | |
| 51) n-Heptane | 16.98 | 71 | 13279 | 0.397 | ng | # 73 |
| 52) cis-1,3-Dichloropropene | 17.81 | 75 | 1074 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 8065 | 0.241 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.42 | 75 | 76 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 216415 | 6.951 | ng | NR# 7 |
| 58) Toluene | 19.06 | 91 | 169780 | 1.248 | ng | 97 |
| 59) 2-Hexanone | 19.38 | 43 | 29638 | 0.316 | ng | 77 |
| 60) Dibromochloromethane | 19.63 | 129 | 76 | N.D. | ✓ | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.19 | 43 | 15689 | 0.165 | ng | 78 |
| 63) n-Octane | 20.35 | 57 | 5460 | 0.181 | ng | 100 |
| 64) Tetrachloroethene | 20.54 | 166 | 196560 | 4.884 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 2681 | N.D. | ✓ | |
| 66) Ethylbenzene | 21.88 | 91 | 22663 | 0.145 | ng | 91 |
| 67) m- & p-Xylene | 22.10 | 91 | 45315 | 0.434 | ng | 96 |
| 68) Bromoform | 22.20 | 173 | 310 | N.D. | ✓ | |
| 69) Styrene | 22.58 | 104 | 18906 | 0.203 | ng | # 56 |
| 70) o-Xylene | 22.71 | 91 | 22165 | 0.197 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 12599 | 0.158 | ng | # 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.70 | 83 | 376 | N.D. | ✓ | |
| 74) Cumene | 23.46 | 105 | 7840 | 0.052 | ng | 97 |
| 75) alpha-Pinene | 23.96 | 93 | 6104 | 0.079 | ng | 89 |
| 76) n-Propylbenzene | 24.10 | 91 | 10824 | 0.057 | ng | # 82 |
| 77) 3-Ethyltoluene | 24.22 | 105 | 19177 | 0.120 | ng | 98 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 11542 | 0.078 | ng | 92 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 8265 | 0.061 | ng | 100 |

1126

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:21:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

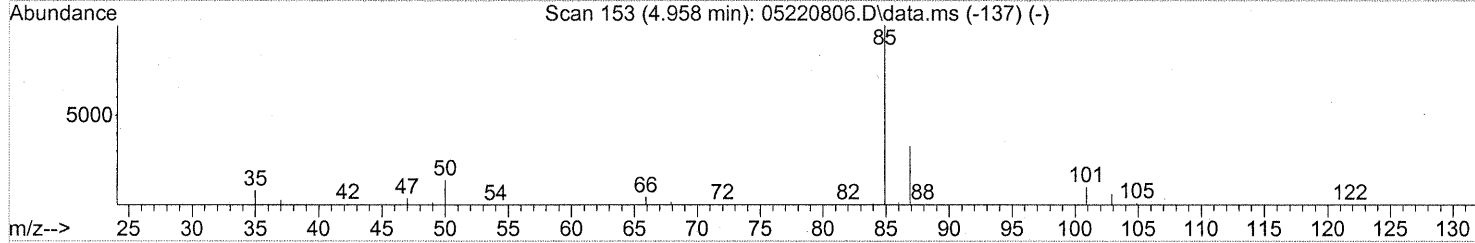
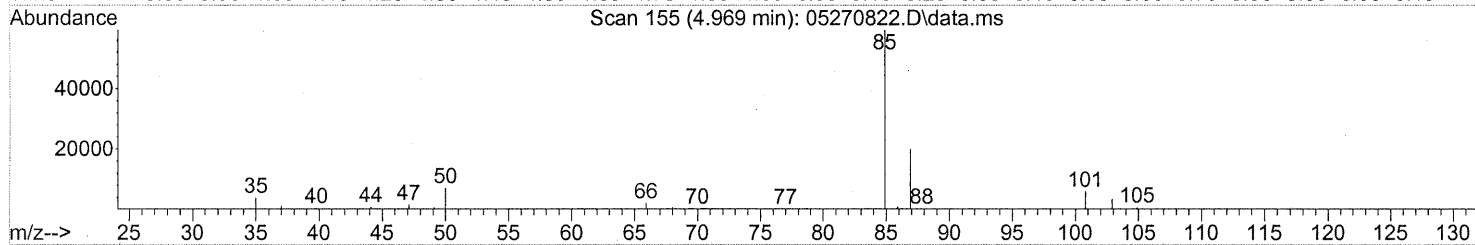
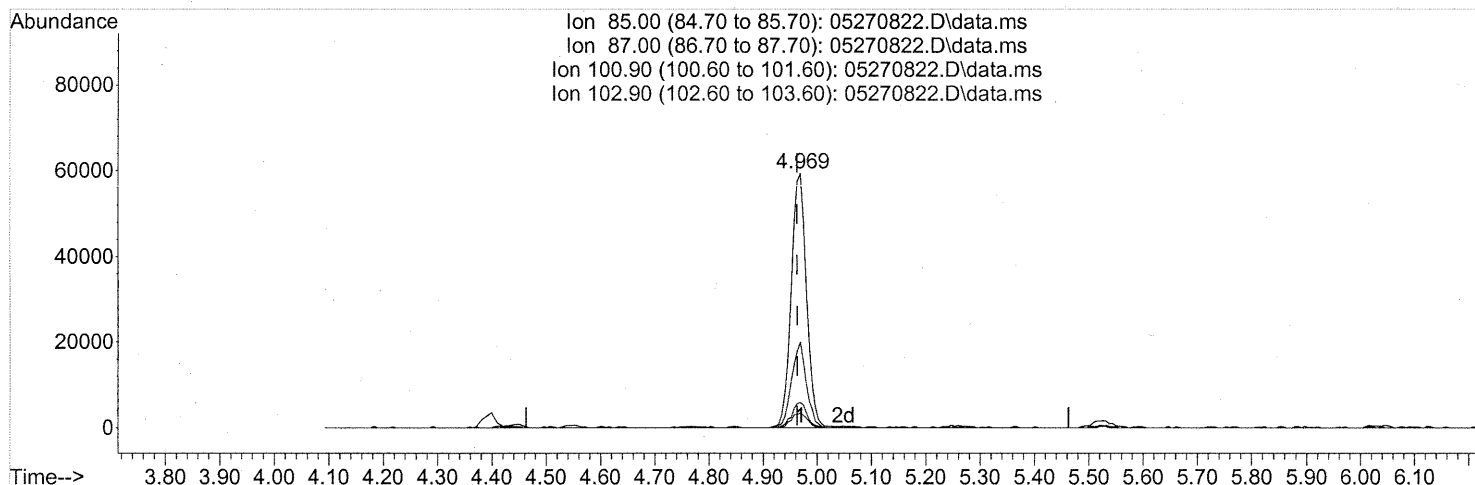
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 3379 | N.D. | ✓ | |
| 81) 2-Ethyltoluene | 24.60 | 105 | 14097 | 0.087 | ng | 99 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 33513 | 0.245 | ng | 88 |
| 83) n-Decane | 24.98 | 57 | 61344 | 0.815 | ng | 80 |
| 84) Benzyl Chloride | 25.05 | 91 | 881 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 10683 | 0.125 | ng | 93 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 42925 | 0.517 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 2832 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 15707 | 0.109 | ng | 78 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 39662 | 0.296 | ng | 88 |
| 90) 1,2-Dichlorobenzene | 25.57 | 146 | 808 | N.D. | ✓ | |
| 91) d-Limonene | 25.57 | 68 | 14888 | 0.273 | ng | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.24 | 157 | 790 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 154527 | 1.961 | ng | # 65 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 534 | N.D. | ✓ | |
| 95) Naphthalene | 27.77 | 128 | 93136 | 0.516 | ng | 93 |
| 96) n-Dodecane | 27.73 | 57 | 317898 | 4.056 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 28273 | 0.714 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.40ng

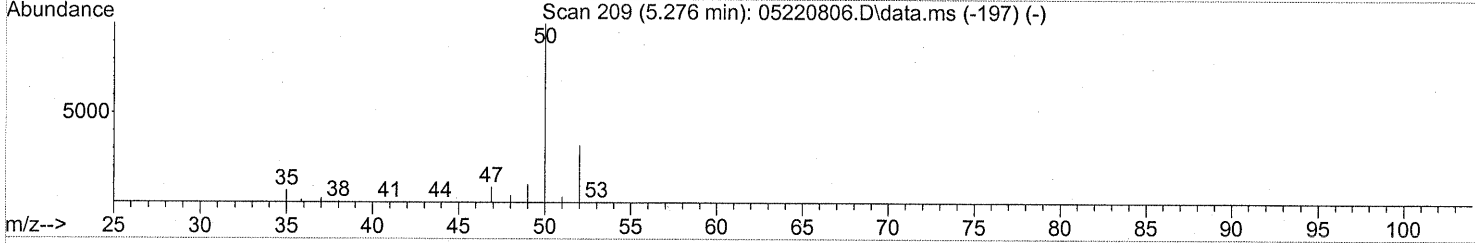
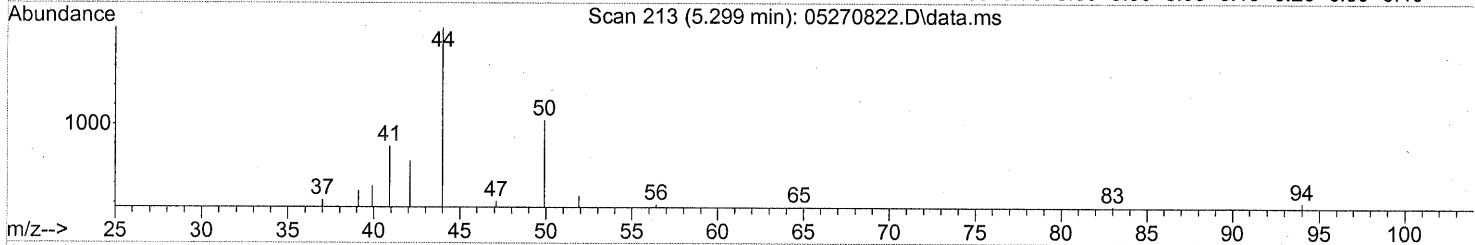
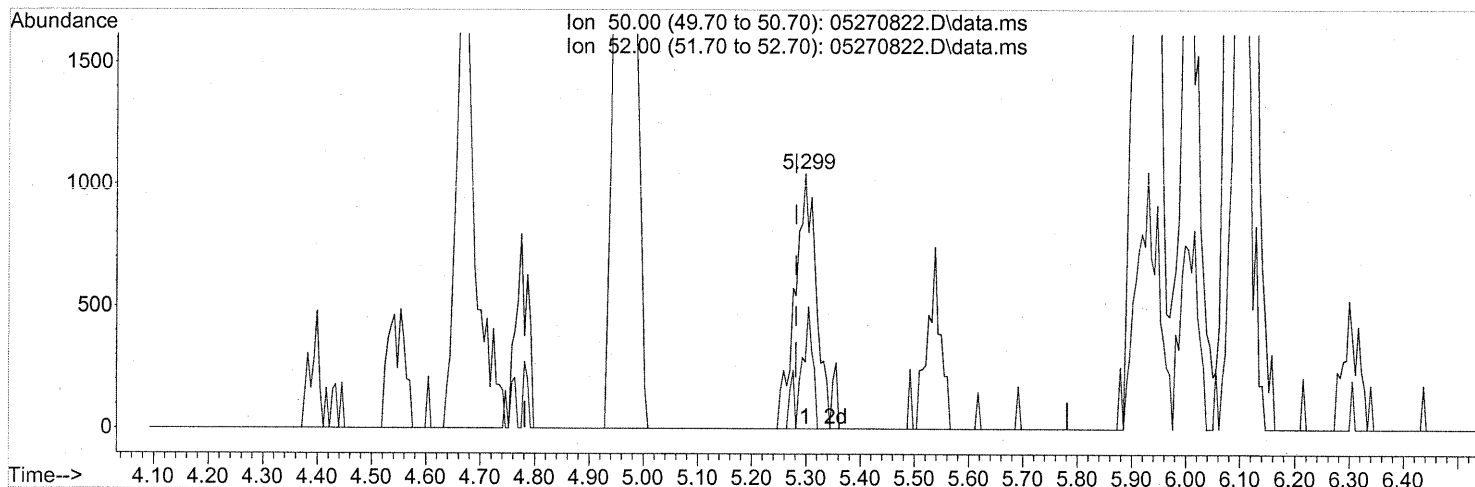
response 117010

| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 32.40 |
| 100.90 | 9.30 | 9.76 |
| 102.90 | 6.00 | 5.90 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(4) Chloromethane (T)

5.299min (+0.017) 0.05ng

response 2812

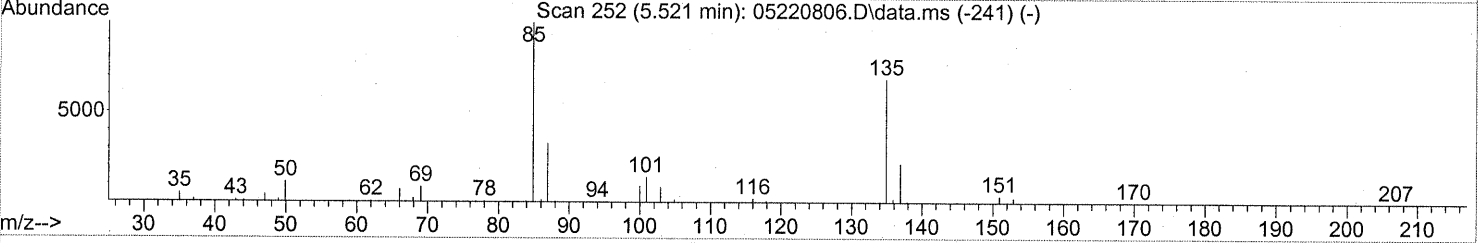
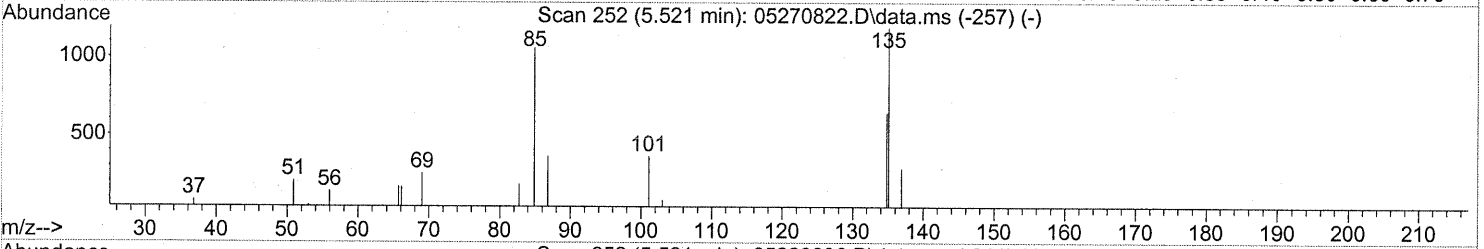
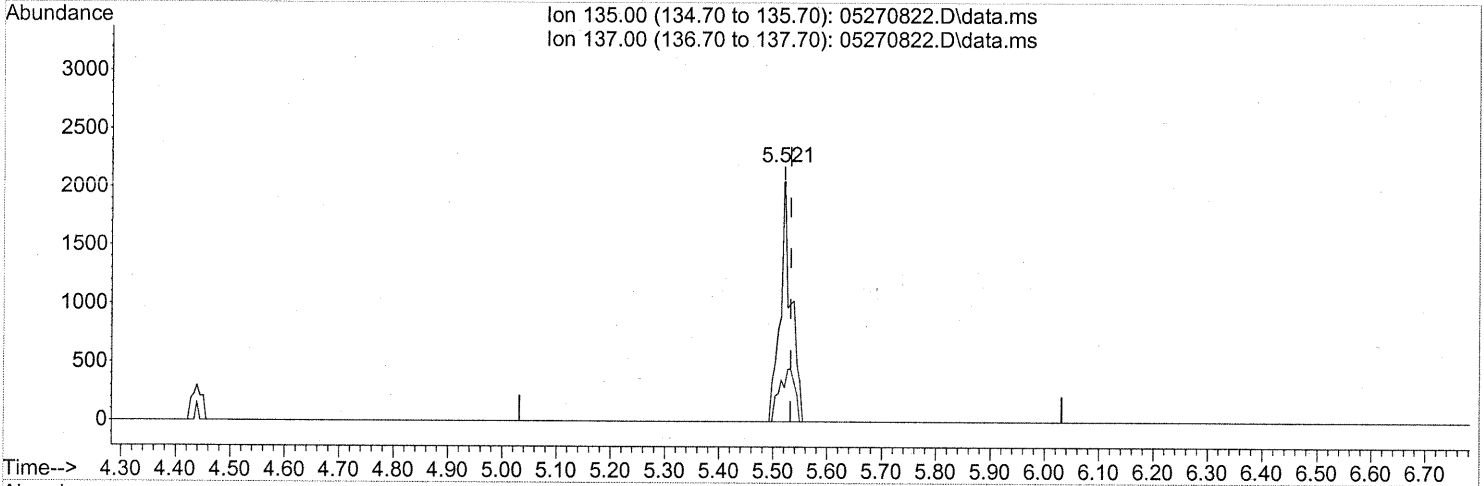
| Ion | Exp% | Act% |
|-------|-------|-------|
| 50.00 | 100 | 100 |
| 52.00 | 33.70 | 22.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1129

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(5) Freon 114 (T)

5.521min (-0.012) 0.07ng

response 2906

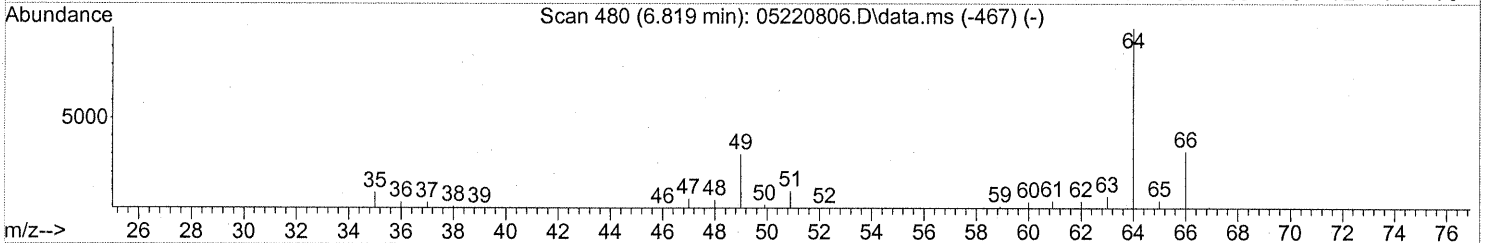
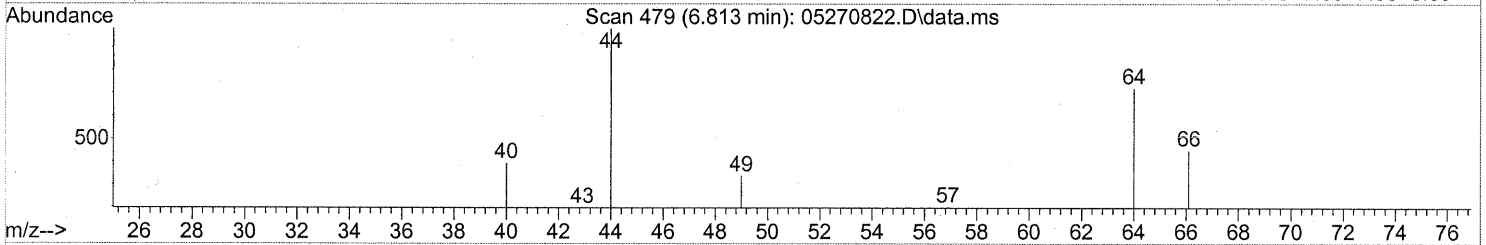
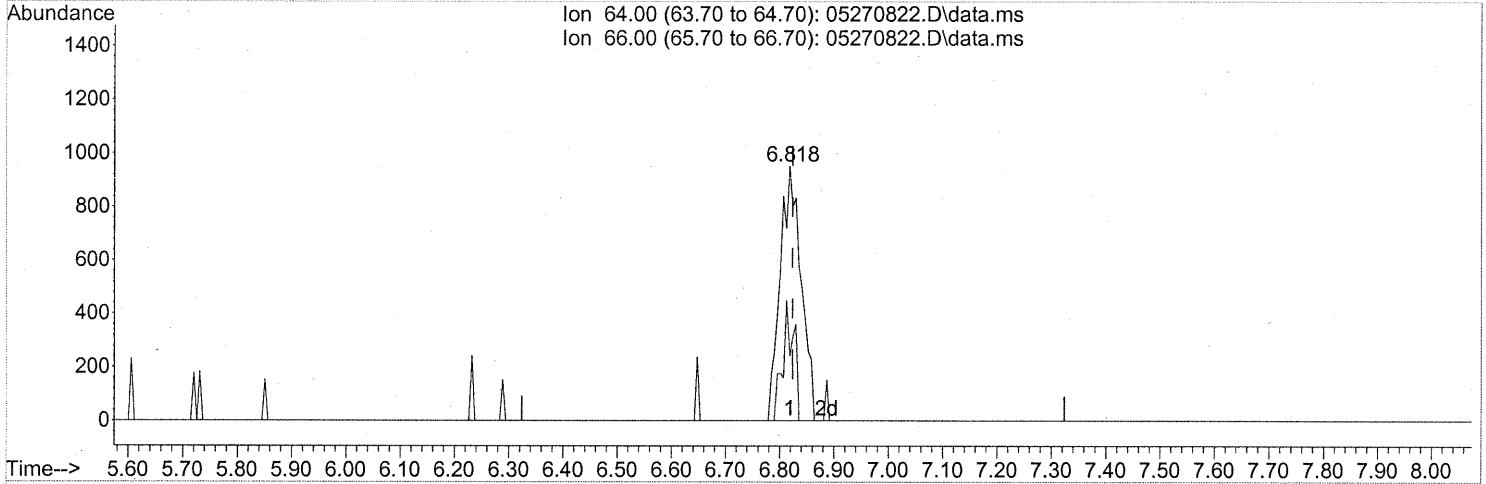
| Ion | Exp% | Act% |
|--------|-------|-------|
| 135.00 | 100 | 100 |
| 137.00 | 31.50 | 30.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1130

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(9) Chloroethane (T)

6.818min (-0.006) 0.10ng

response 2549

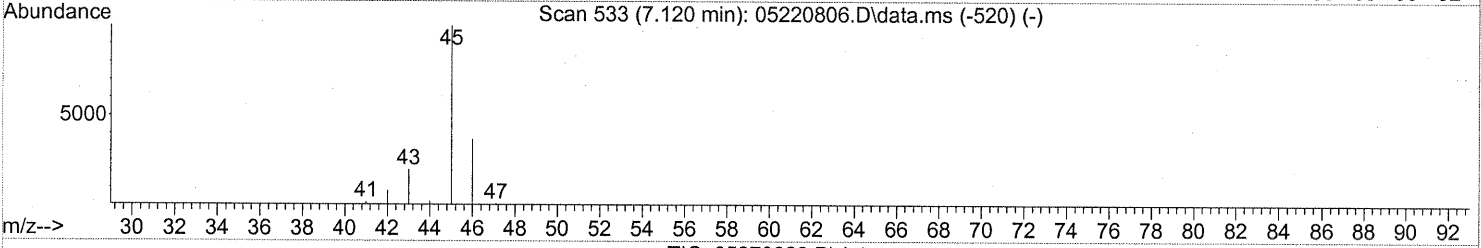
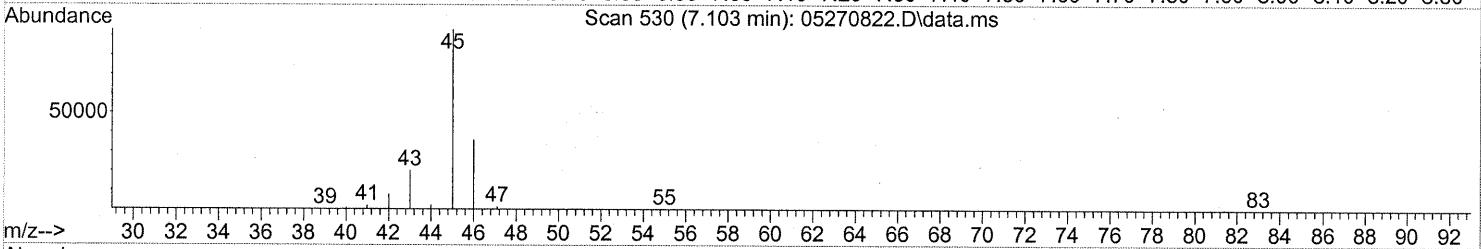
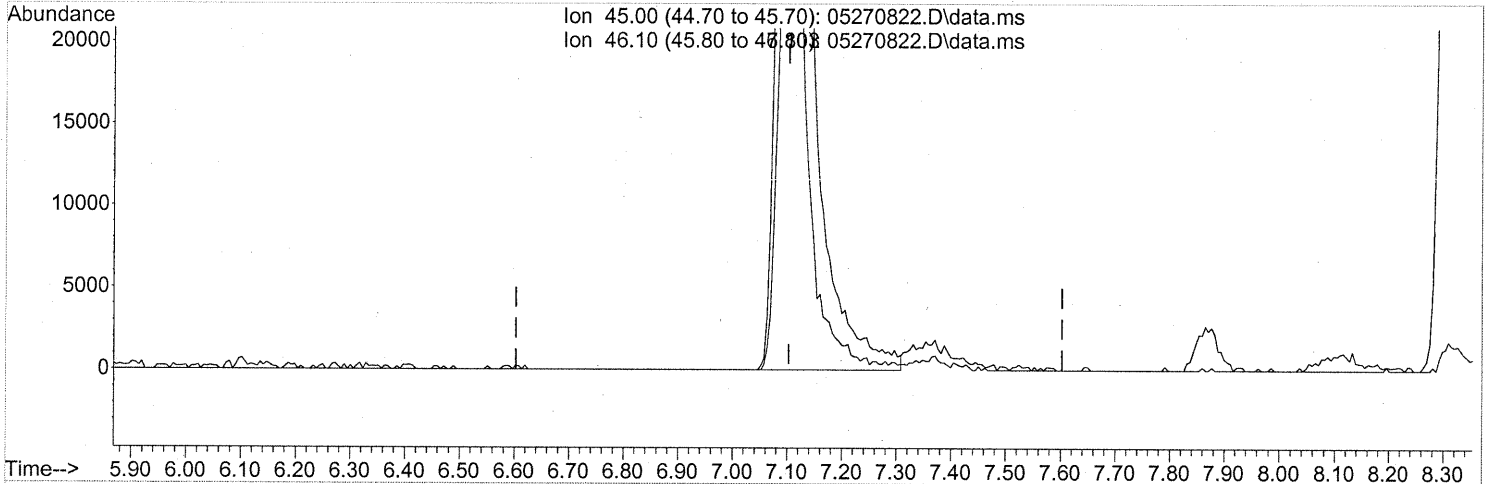
| Ion | Exp% | Act% |
|-------|-------|-------|
| 64.00 | 100 | 100 |
| 66.00 | 29.60 | 24.95 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1131

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 10.23ng

response 307766

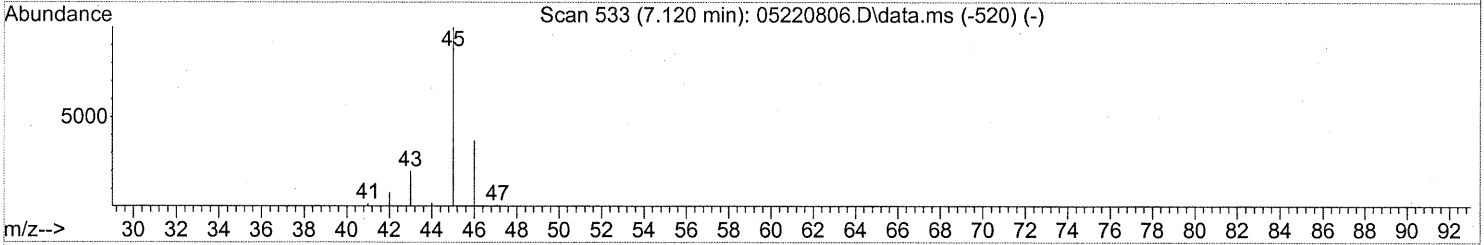
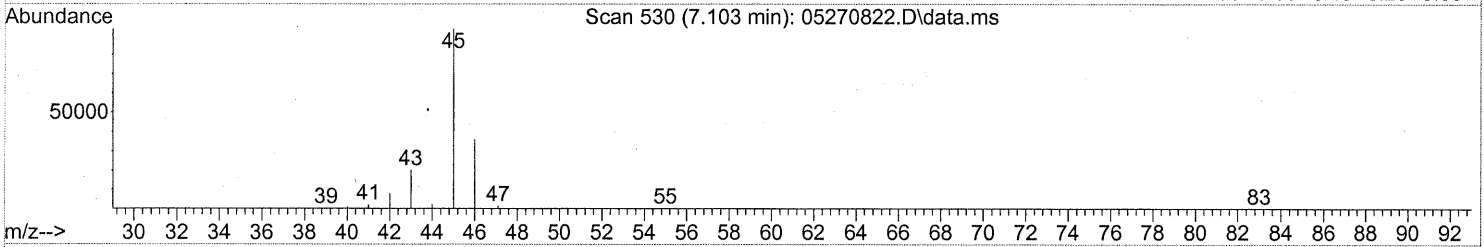
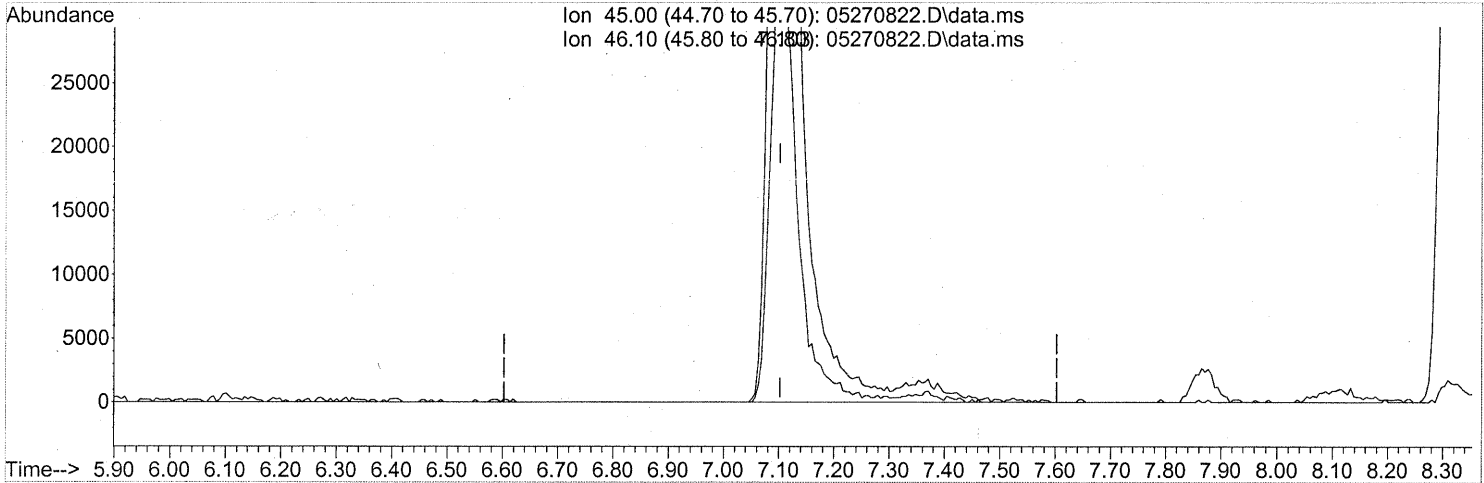
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 39.01 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 00:32
Operator : WA
Sample : P0801483-025 (1000ml)
Misc : ENSR SG11B-05 (-2.3, 3.5)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 10.57ng m

response 318206

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.73 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

int. whole peaks

WA 6/2/08

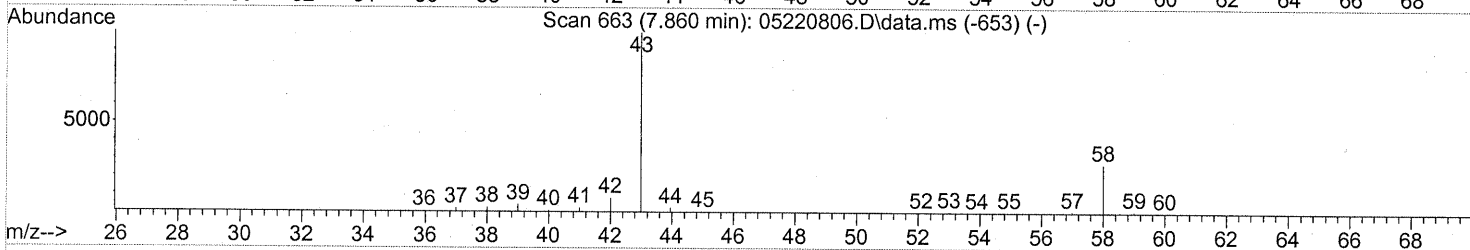
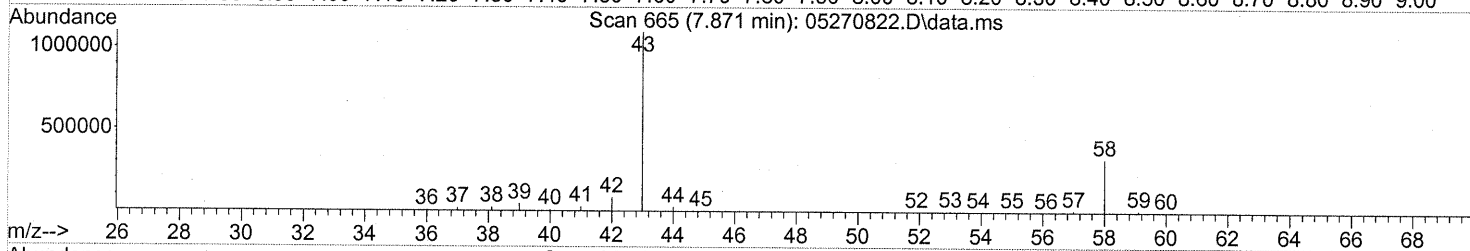
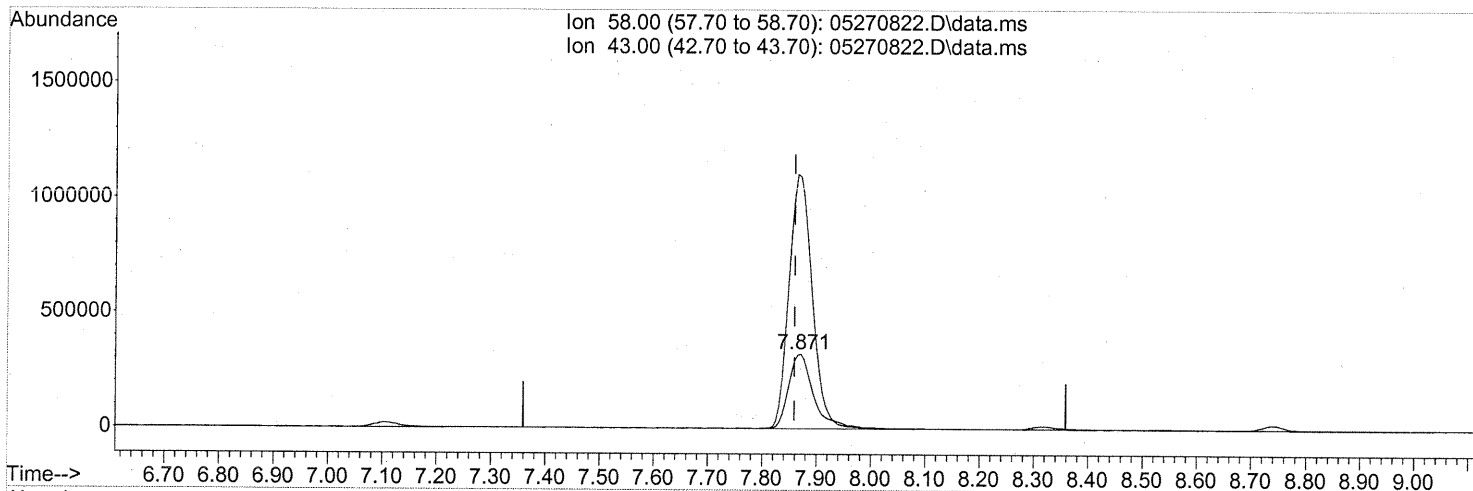
26/03/02

1133

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



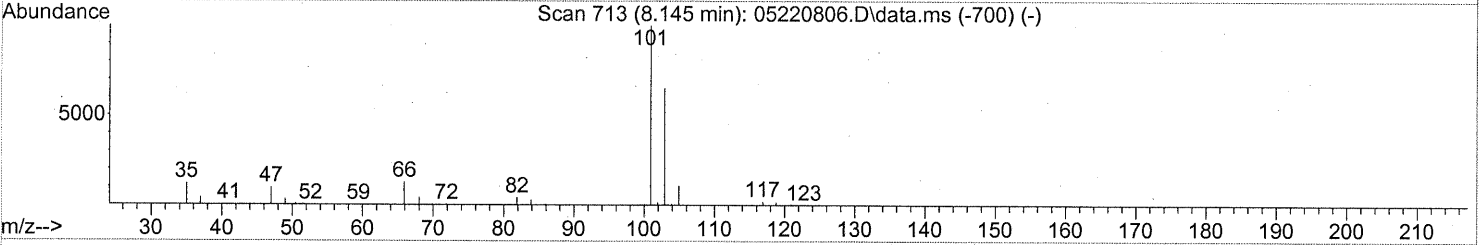
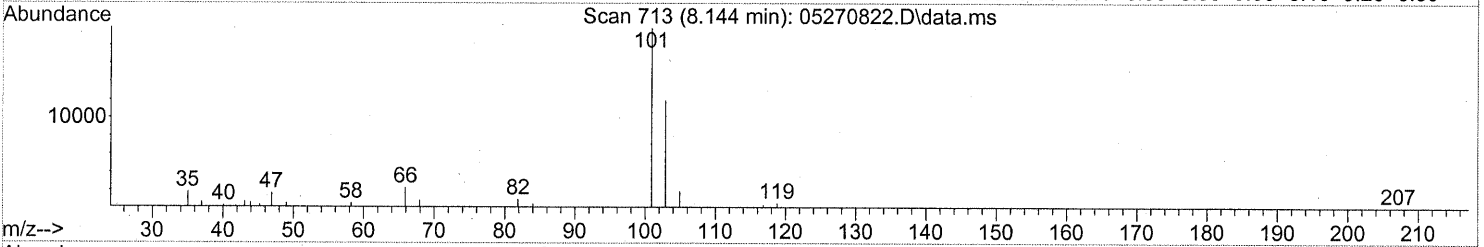
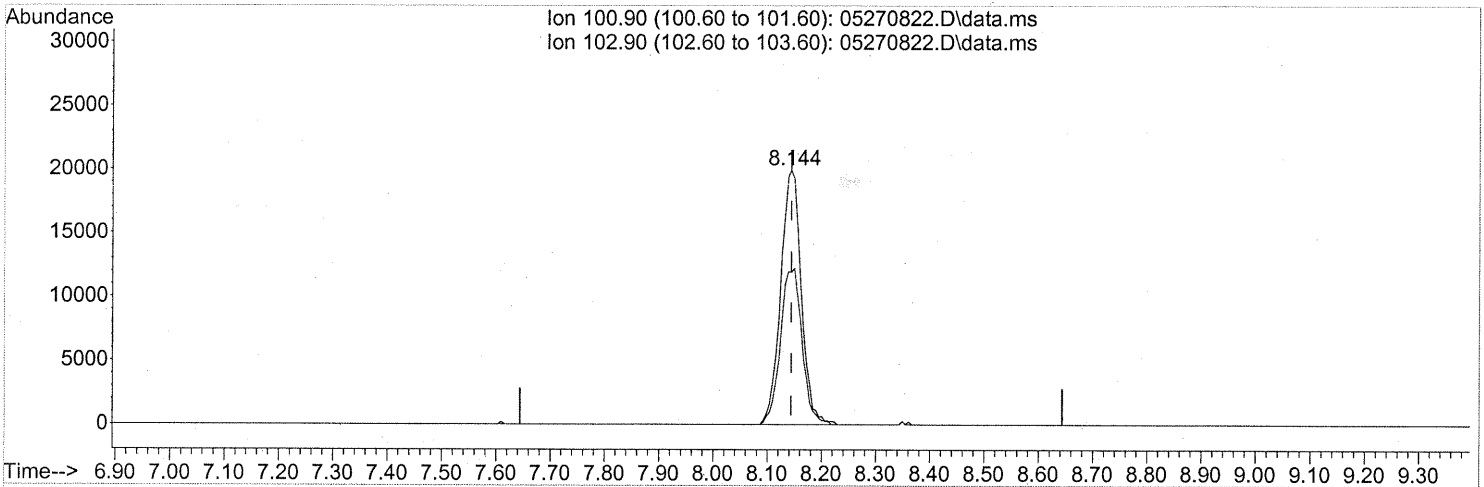
(13) Acetone (T)
 7.871min (+0.011) 33.71ng
 response 1038868

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 317.01# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.74ng

response 52782

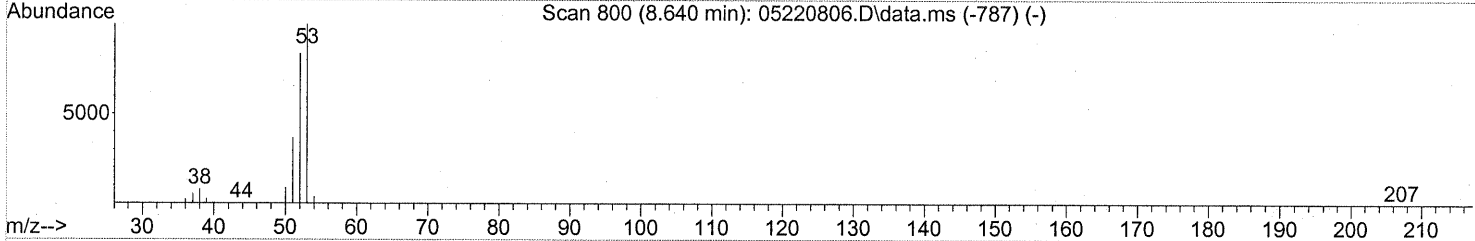
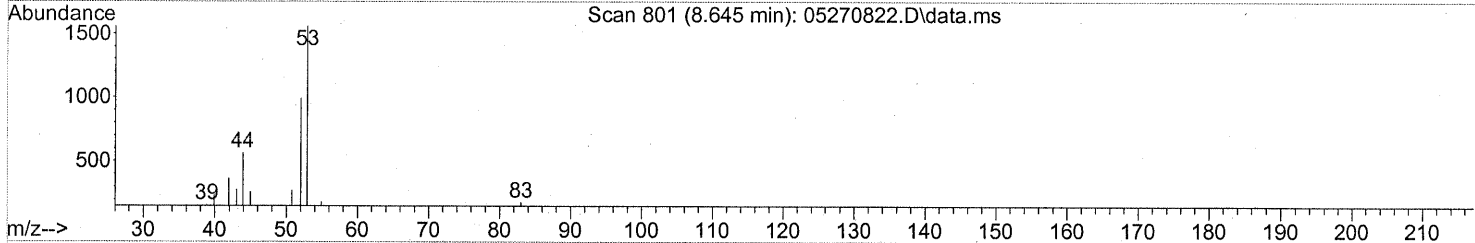
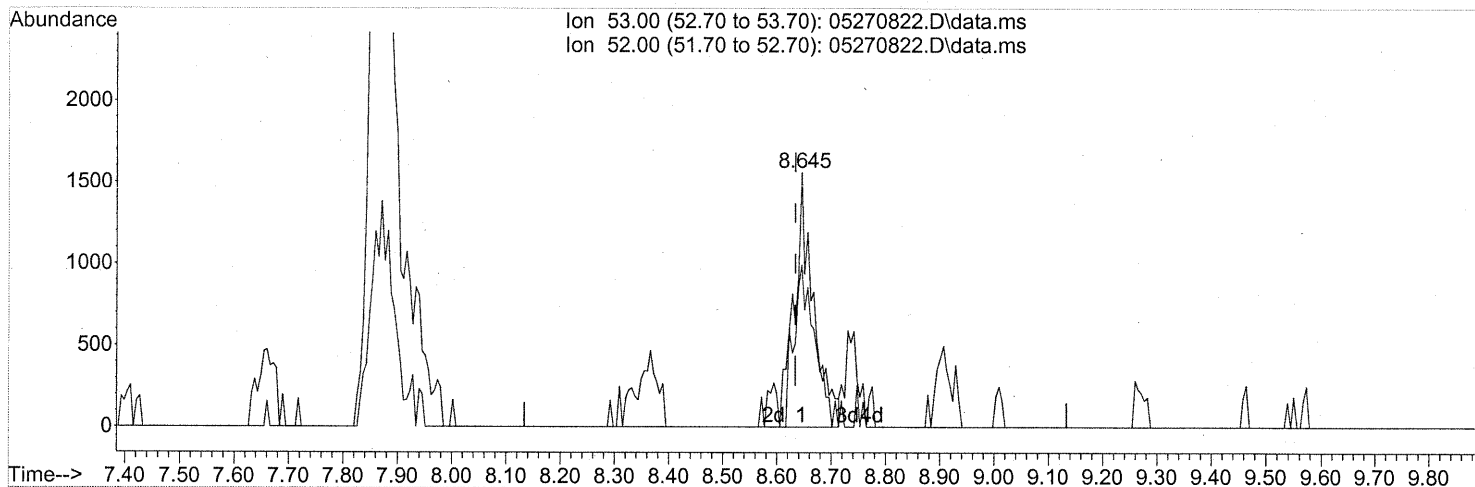
| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 63.93 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1135

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 00:32
Operator : WA
Sample : P0801483-025 (1000ml)
Misc : ENSR SG11B-05 (-2.3, 3.5)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270822.D\data.ms

(16) Acrylonitrile (T)

8.645min (+0.011) 0.08ng

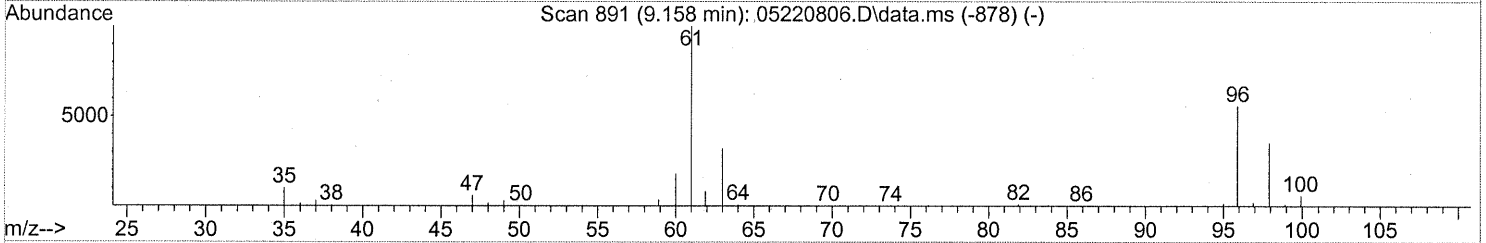
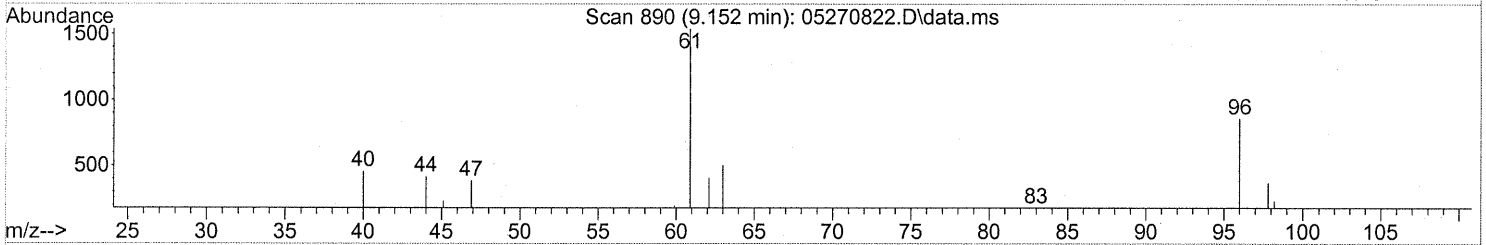
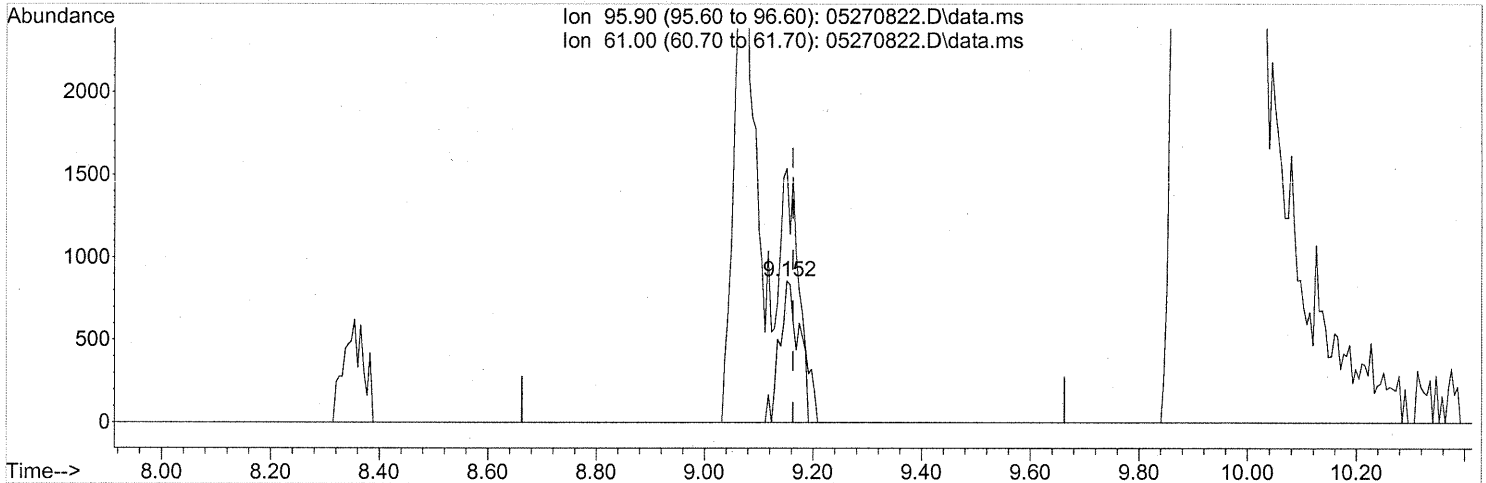
response 3835

| Ion | Exp% | Act% |
|-------|-------|-------|
| 53.00 | 100 | 100 |
| 52.00 | 82.50 | 68.89 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.152min (-0.012) 0.07ng

response 2123

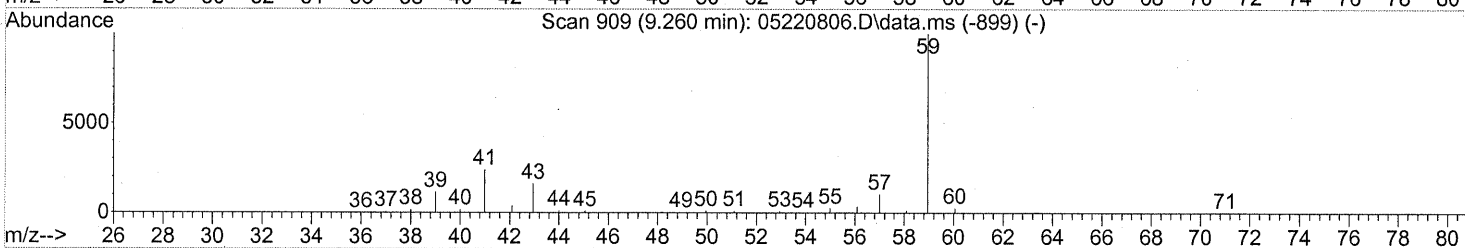
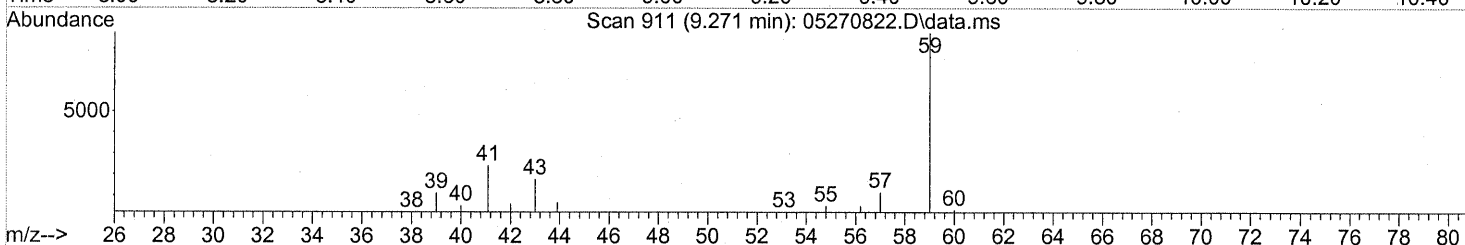
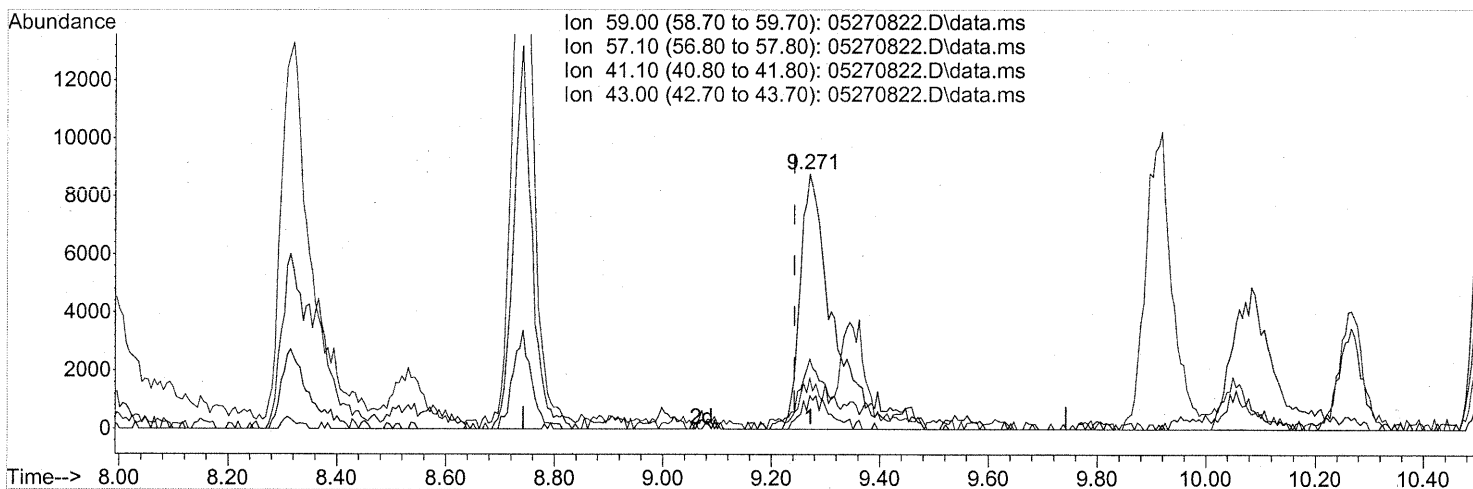
| Ion | Exp% | Act% |
|-------|--------|---------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 180.03# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1137

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

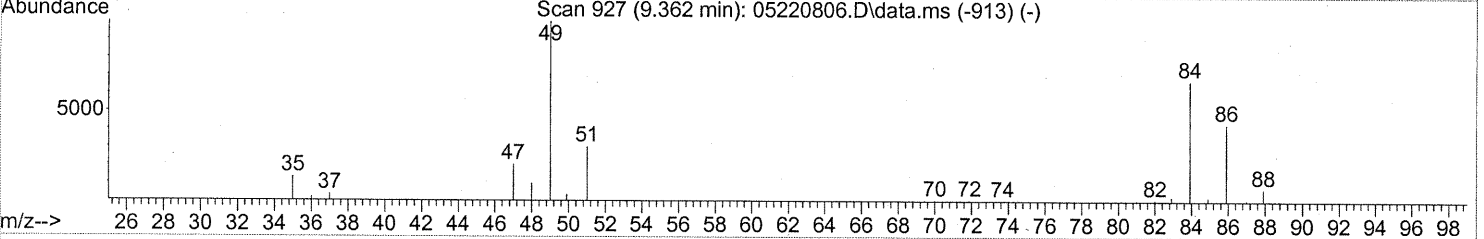
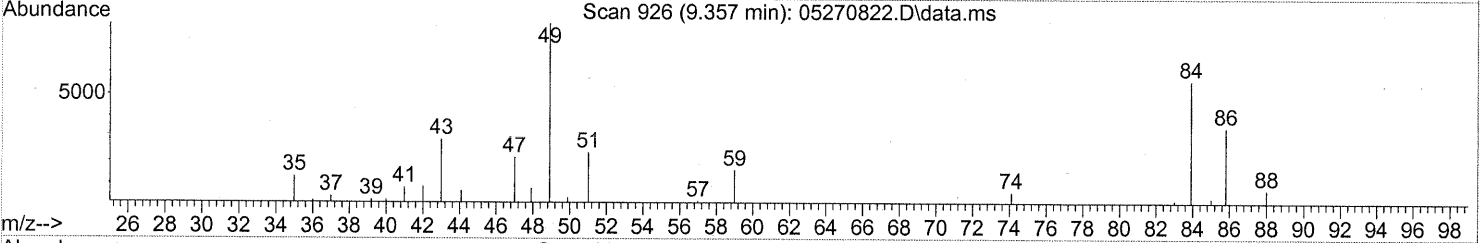
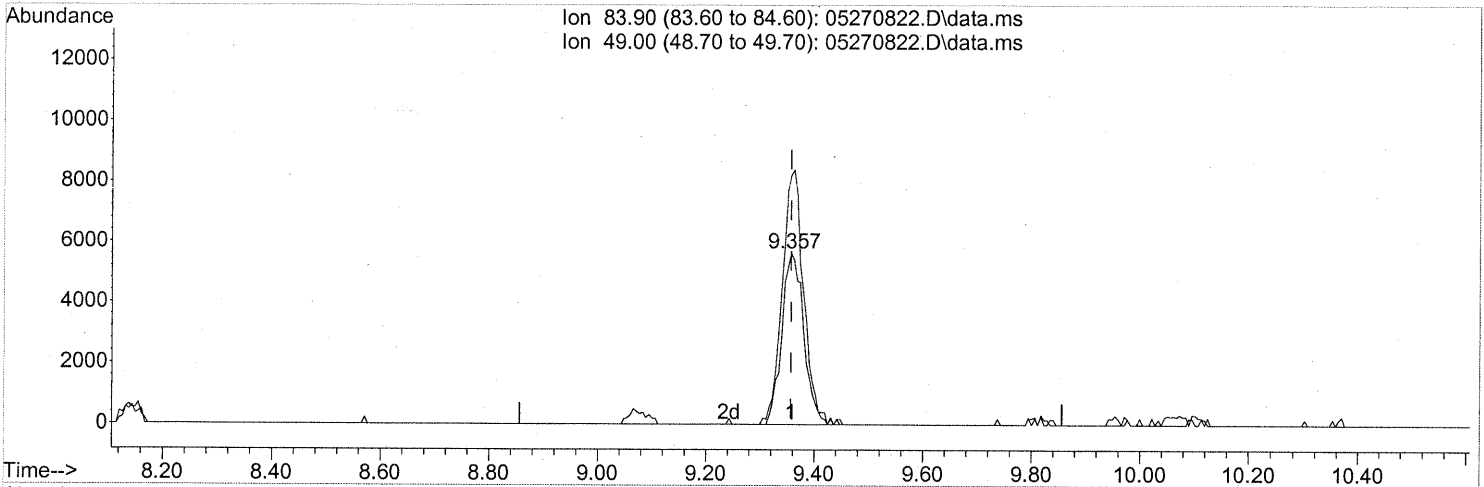
(18) tert-Butanol (T)
 9.271min (+0.028) 0.46ng
 response 38209

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 10.38 |
| 41.10 | 20.10 | 26.93 |
| 43.00 | 12.30 | 12.93 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(19) Methylene Chloride (T)

9.357min (-0.000) 0.46ng

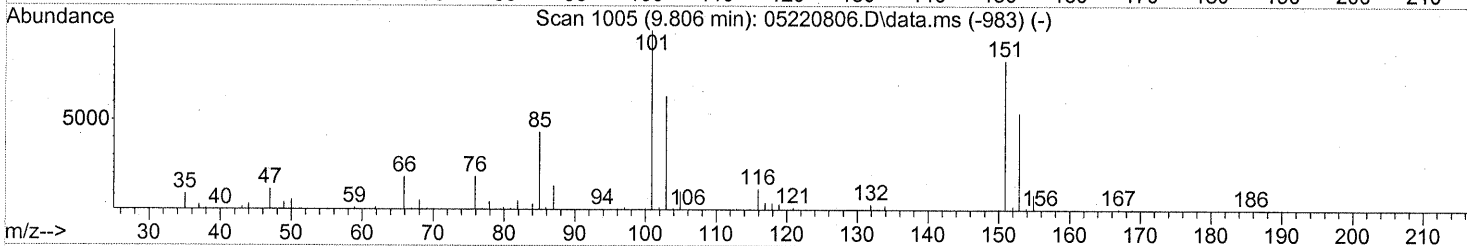
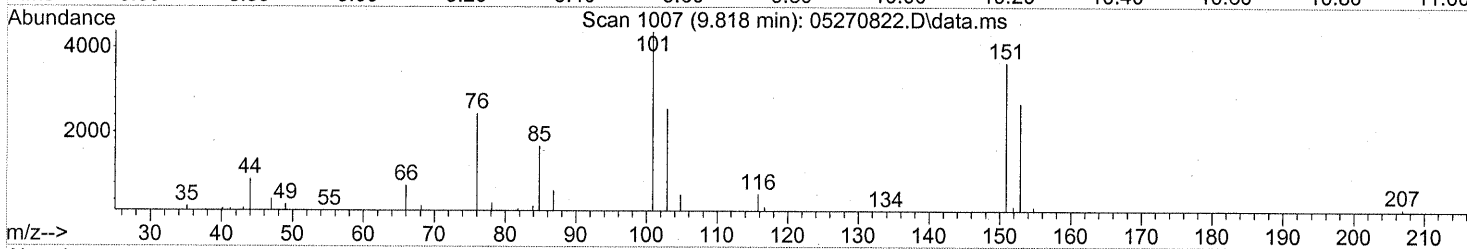
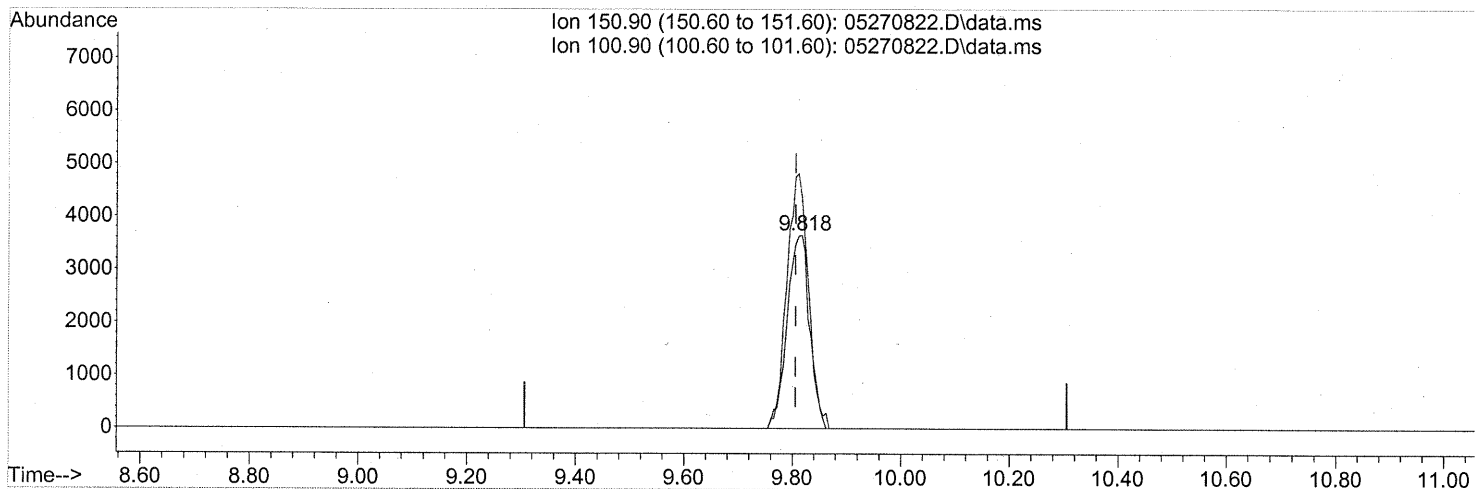
response 16008

| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 142.49# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.33ng

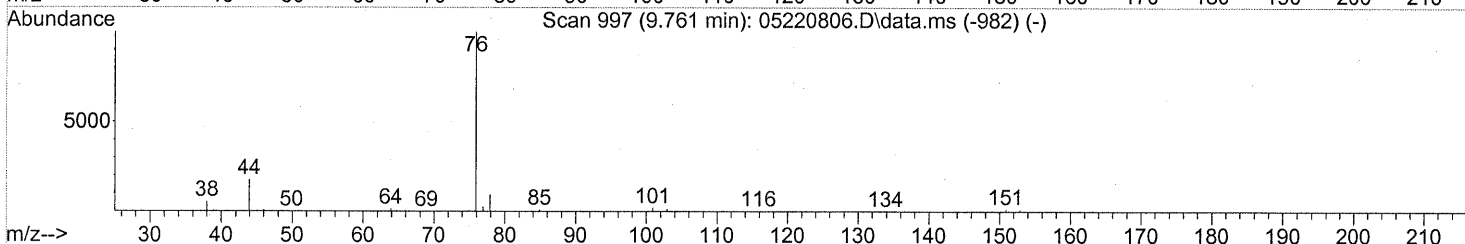
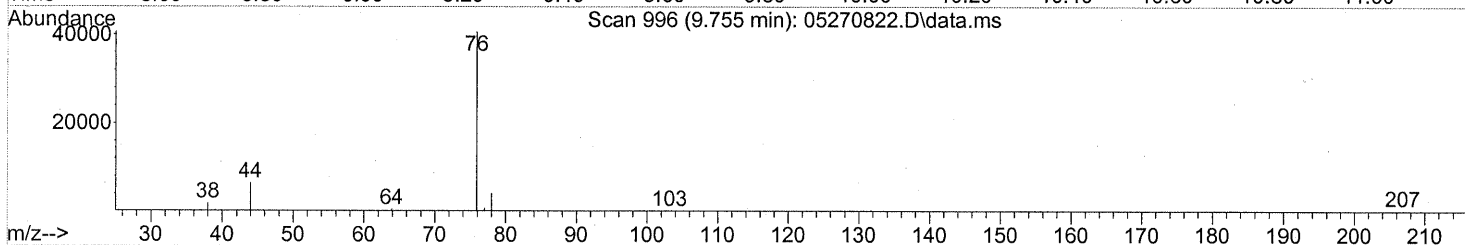
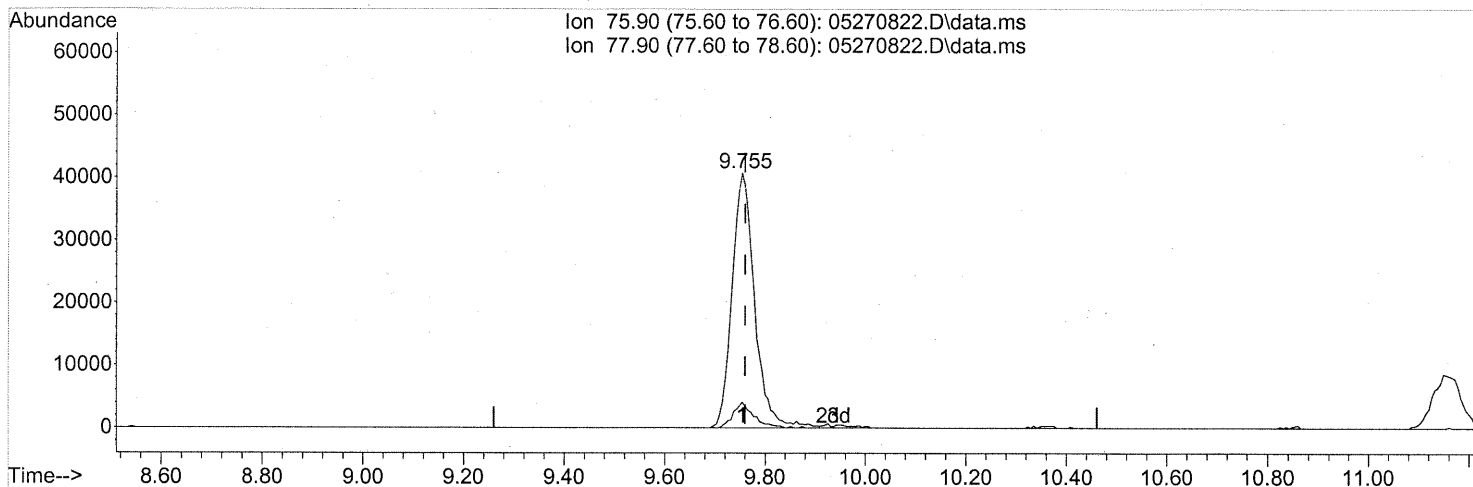
response 10577

| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 126.32 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 0.97ng

response 126382

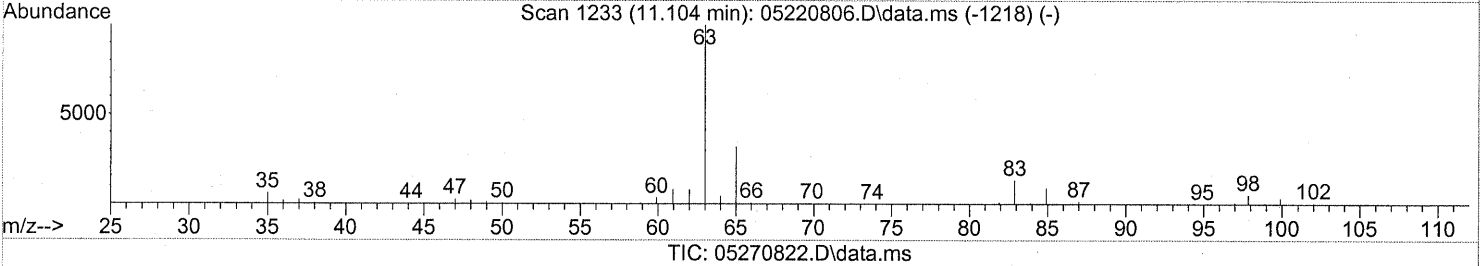
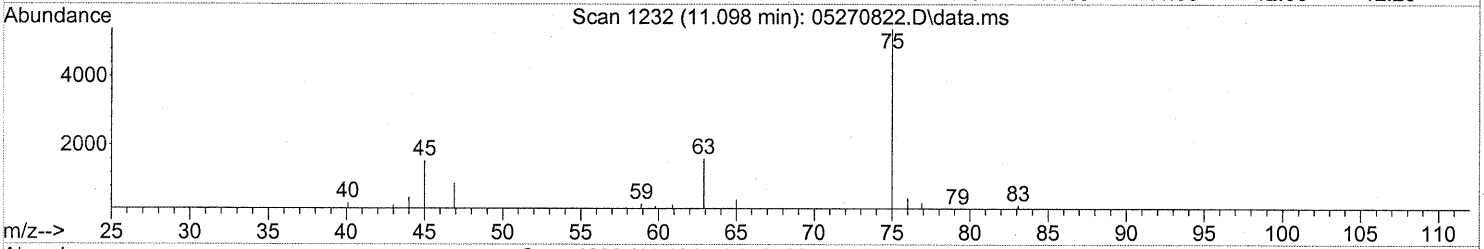
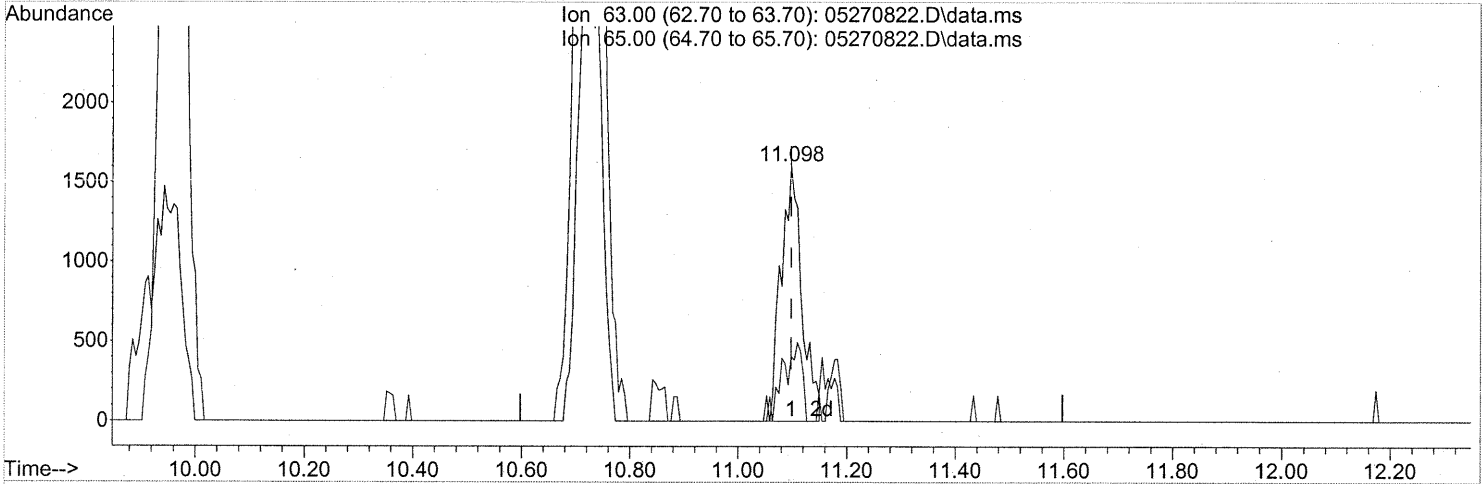
| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 8.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1141

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.098min (-0.000) 0.07ng

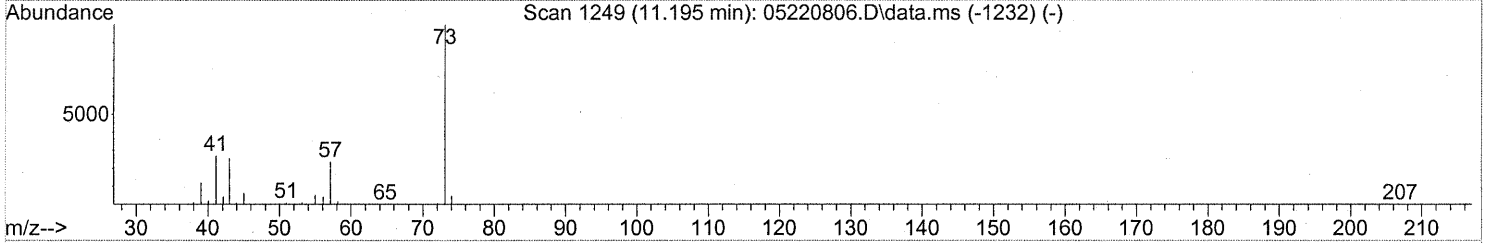
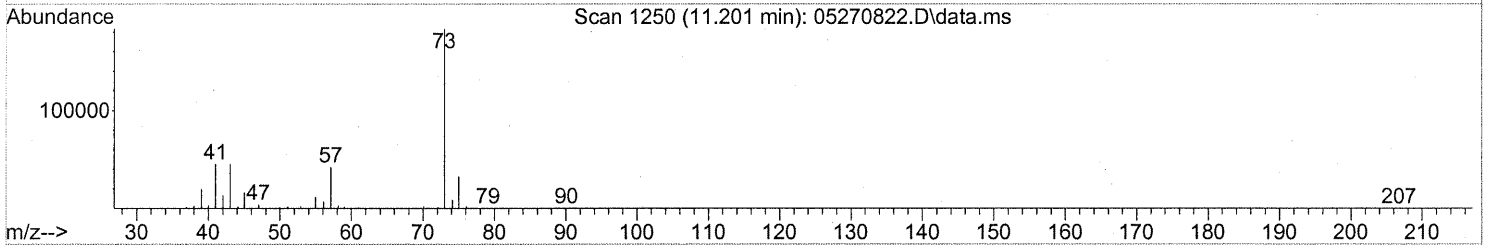
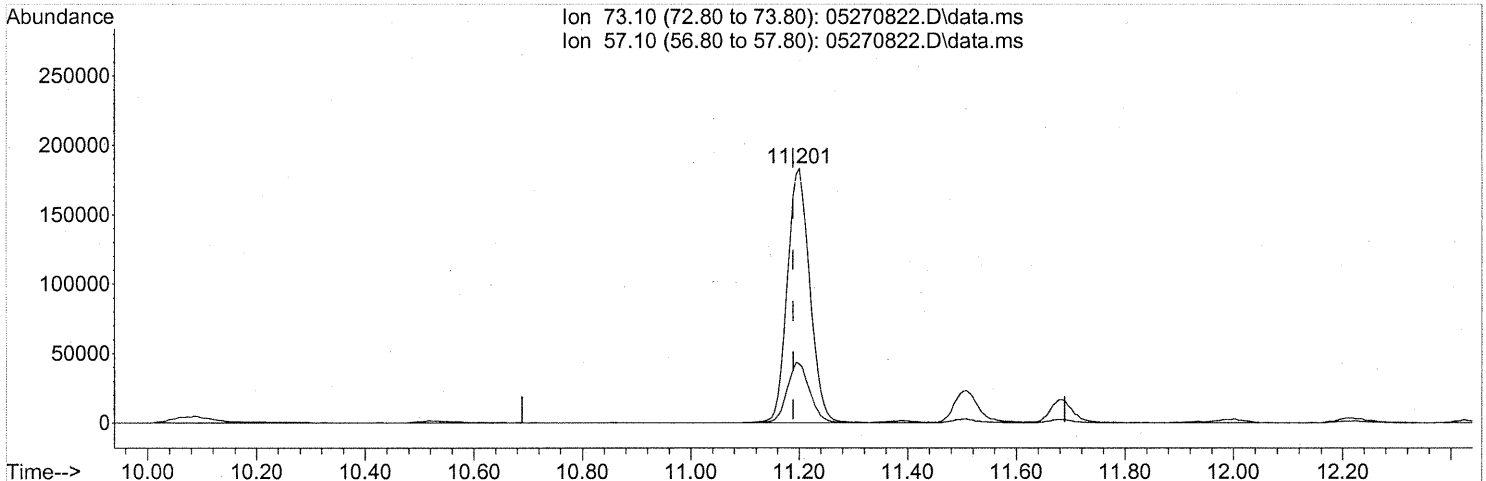
response 4302

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 65.00 | 29.10 | 15.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.201min (+0.011) 5.30ng

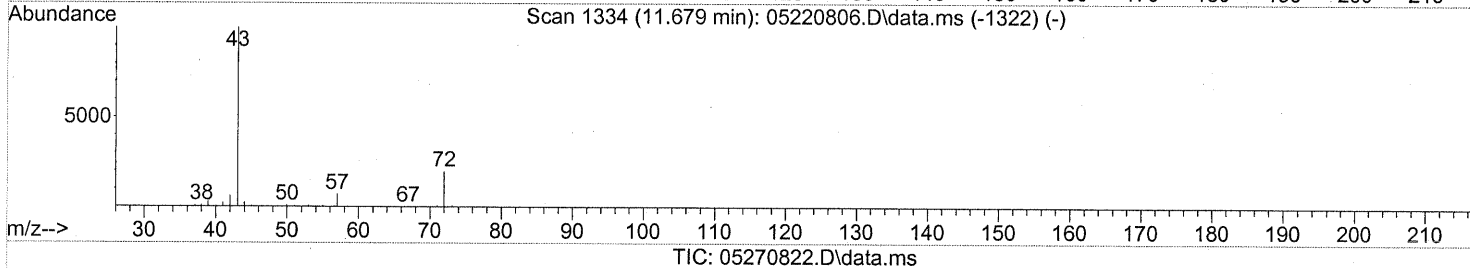
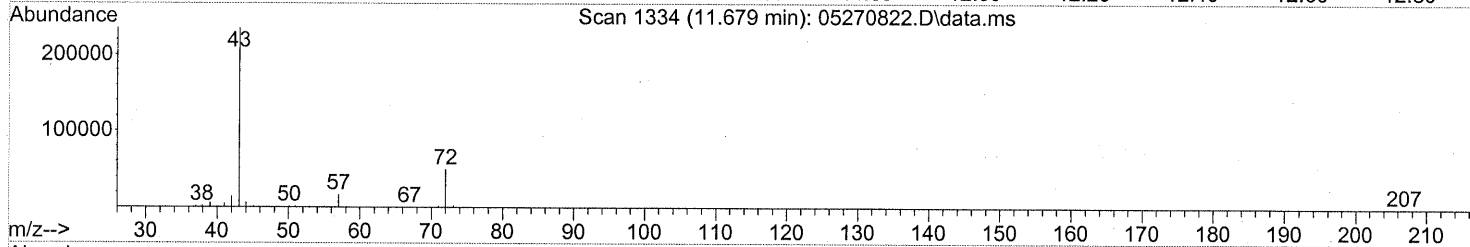
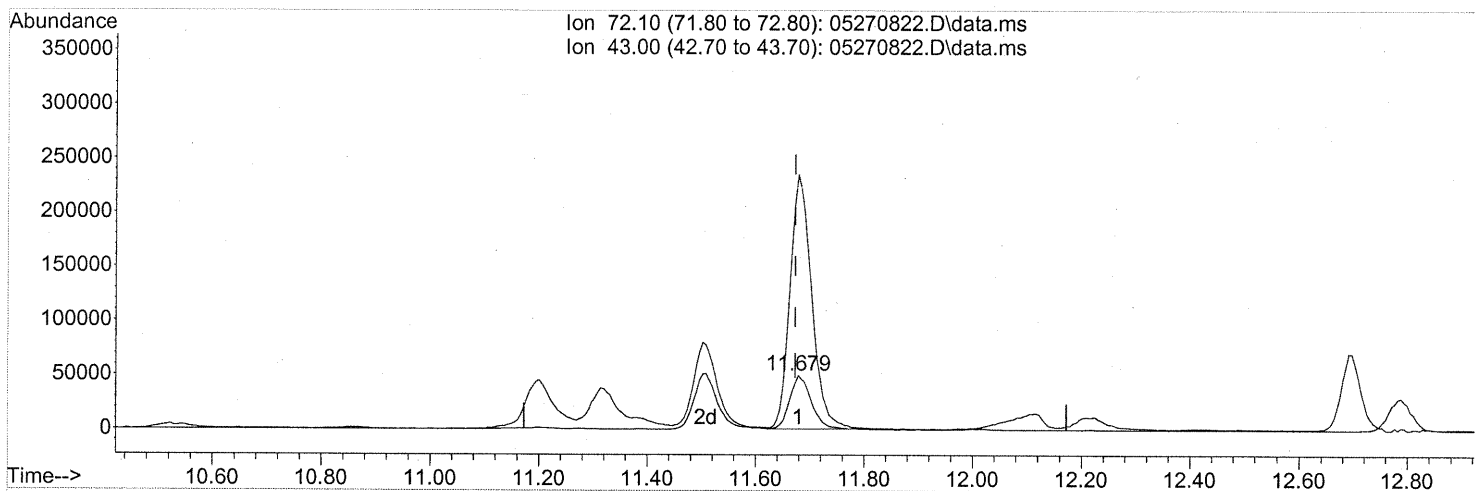
response 528052

| Ion | Exp% | Act% |
|-------|-------|-------|
| 73.10 | 100 | 100 |
| 57.10 | 31.40 | 23.65 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



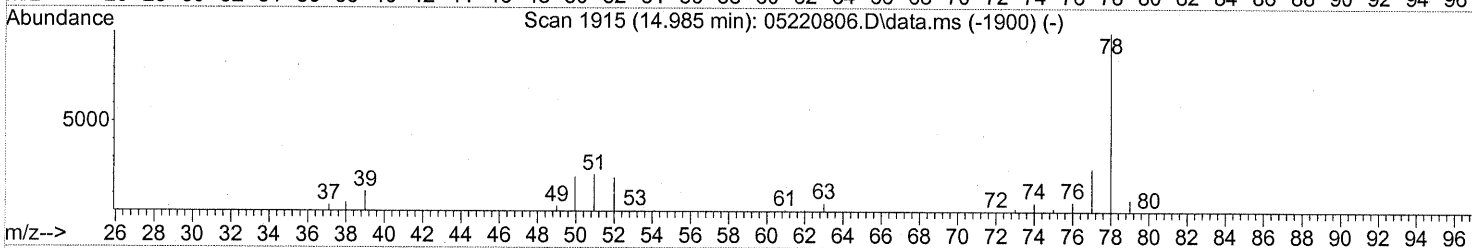
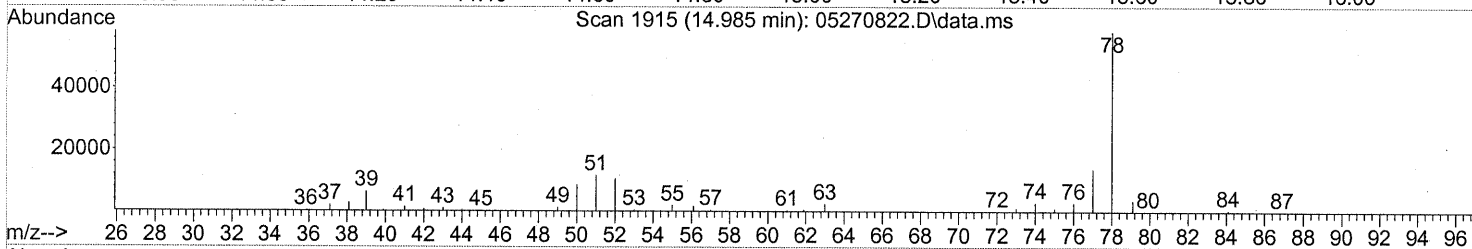
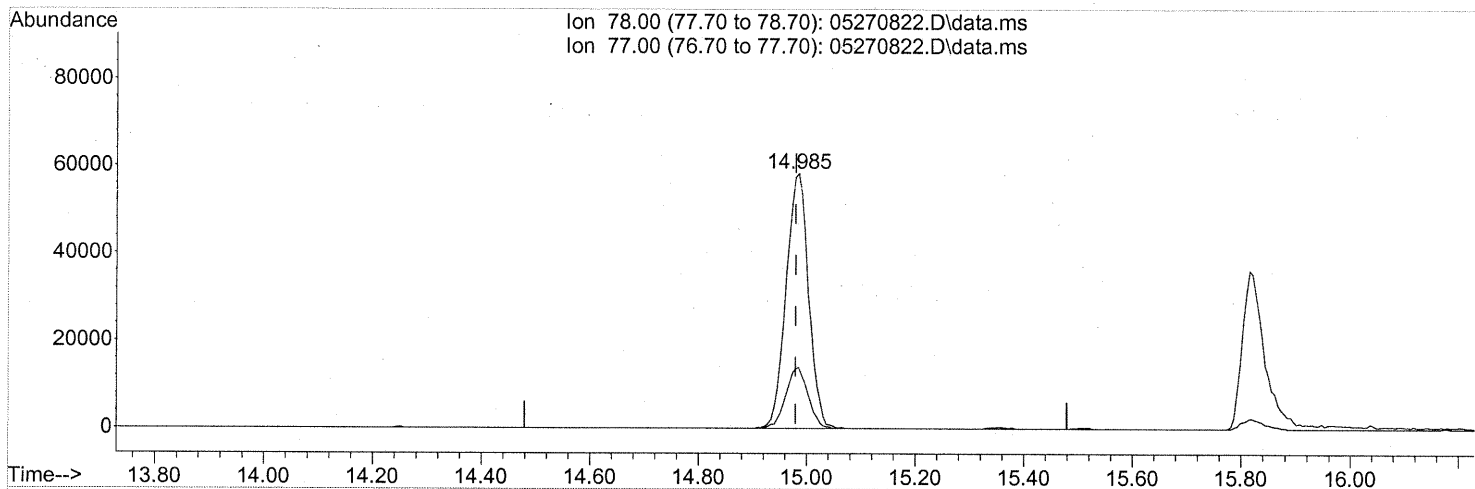
(27) 2-Butanone (T)
 11.679min (+0.006) 6.04ng
 response 135847

| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 483.90# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(41) Benzene (T)
 14.985min (+0.006) 1.33ng
 response 168040

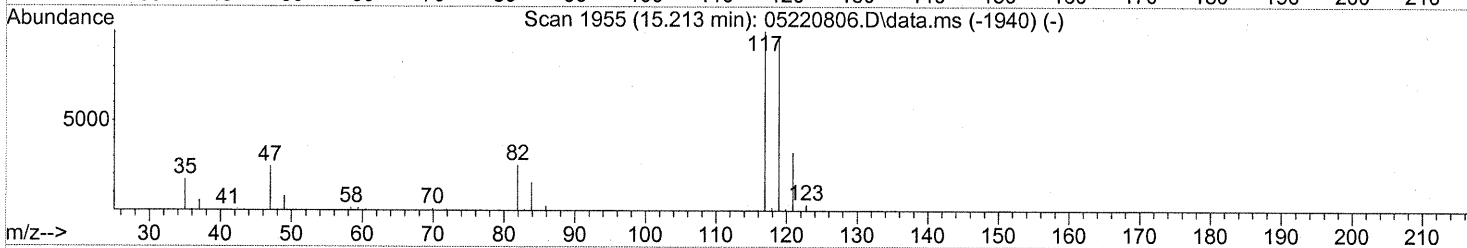
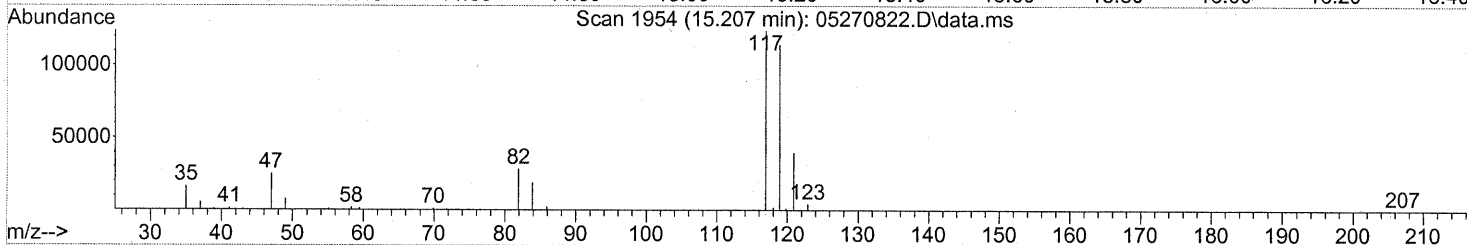
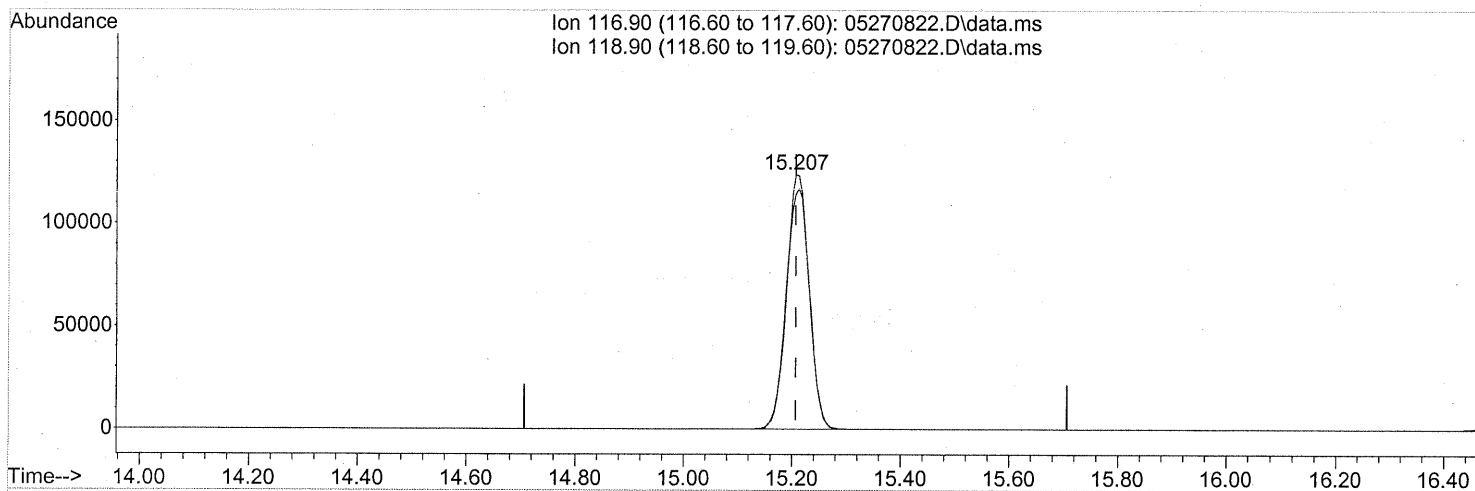
| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 23.60 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1146

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 7.37ng

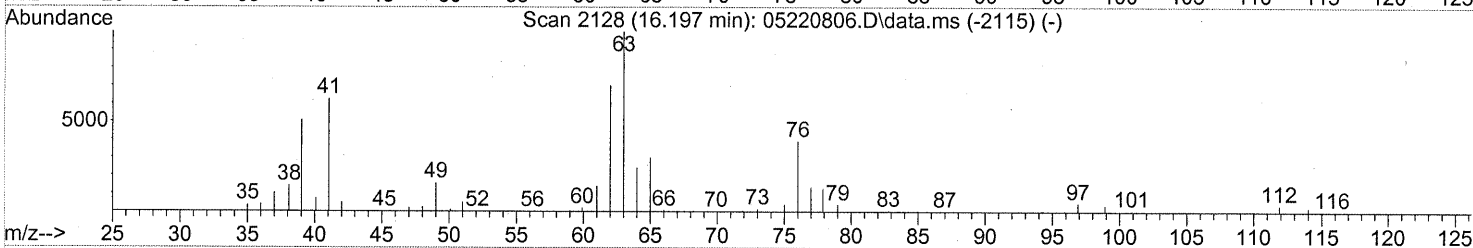
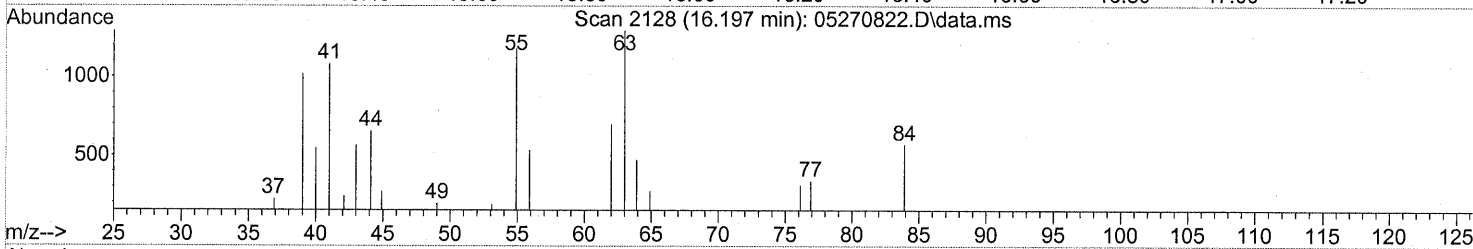
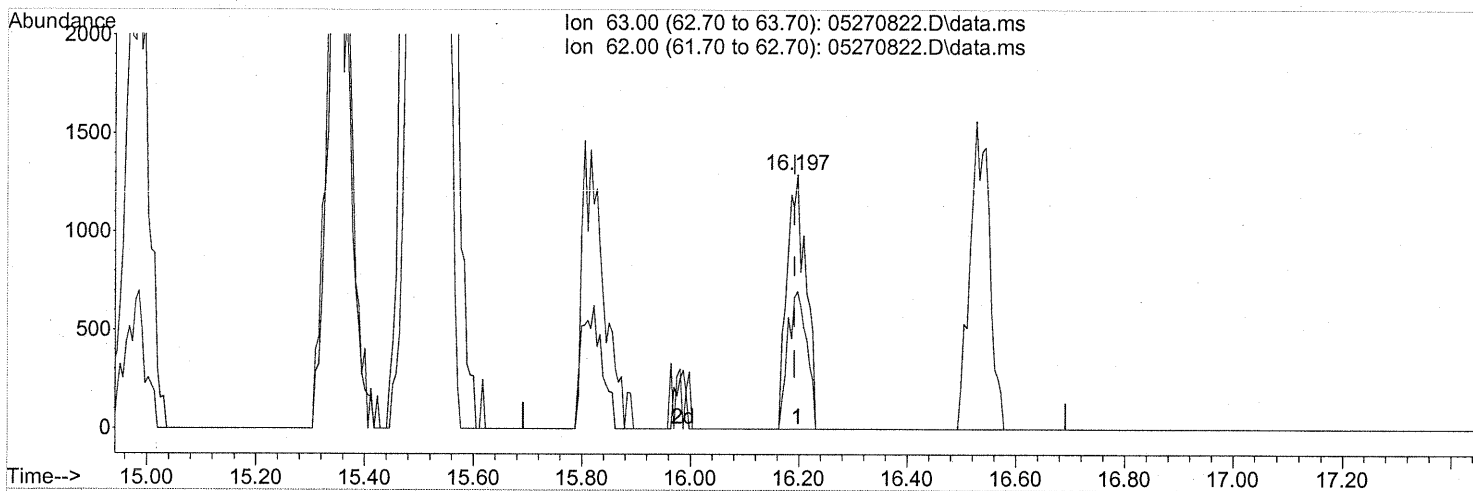
response 357655

| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 96.06 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1147

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.197min (+0.006) 0.09ng

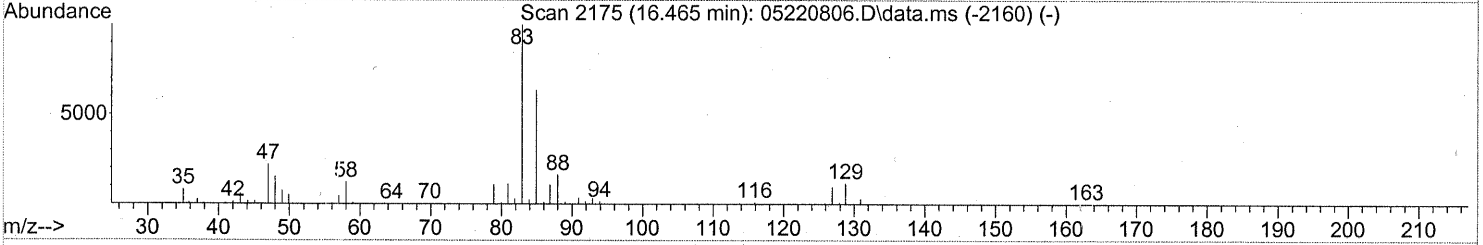
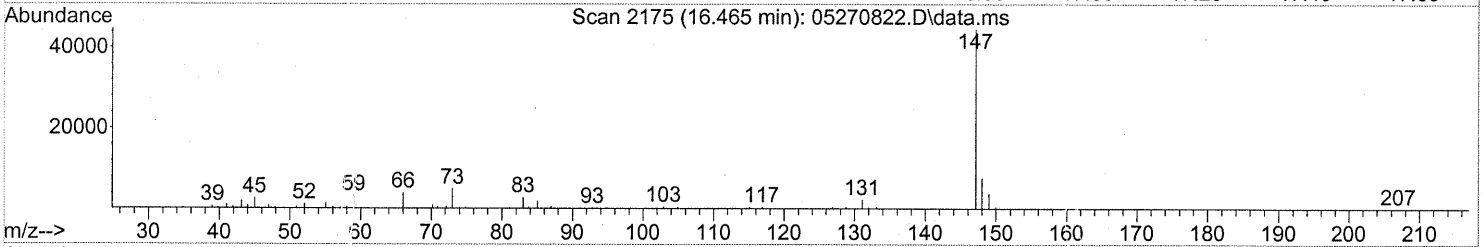
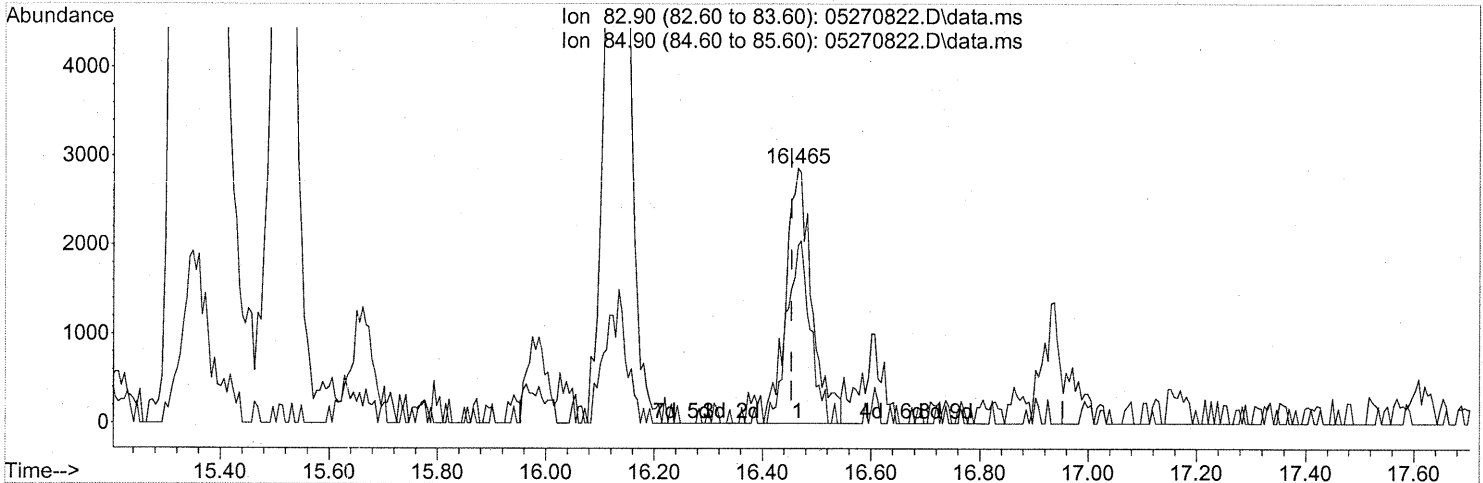
response 3139

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 62.00 | 71.30 | 53.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

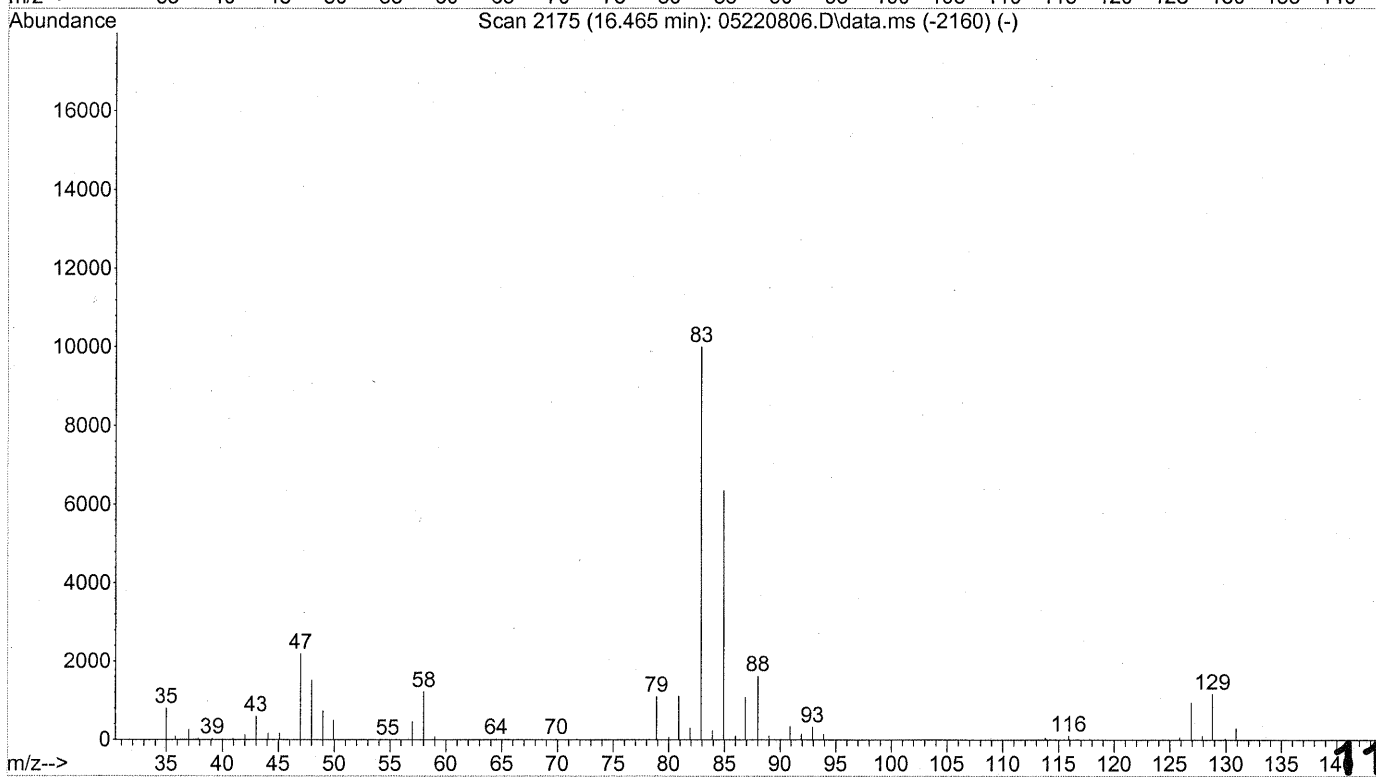
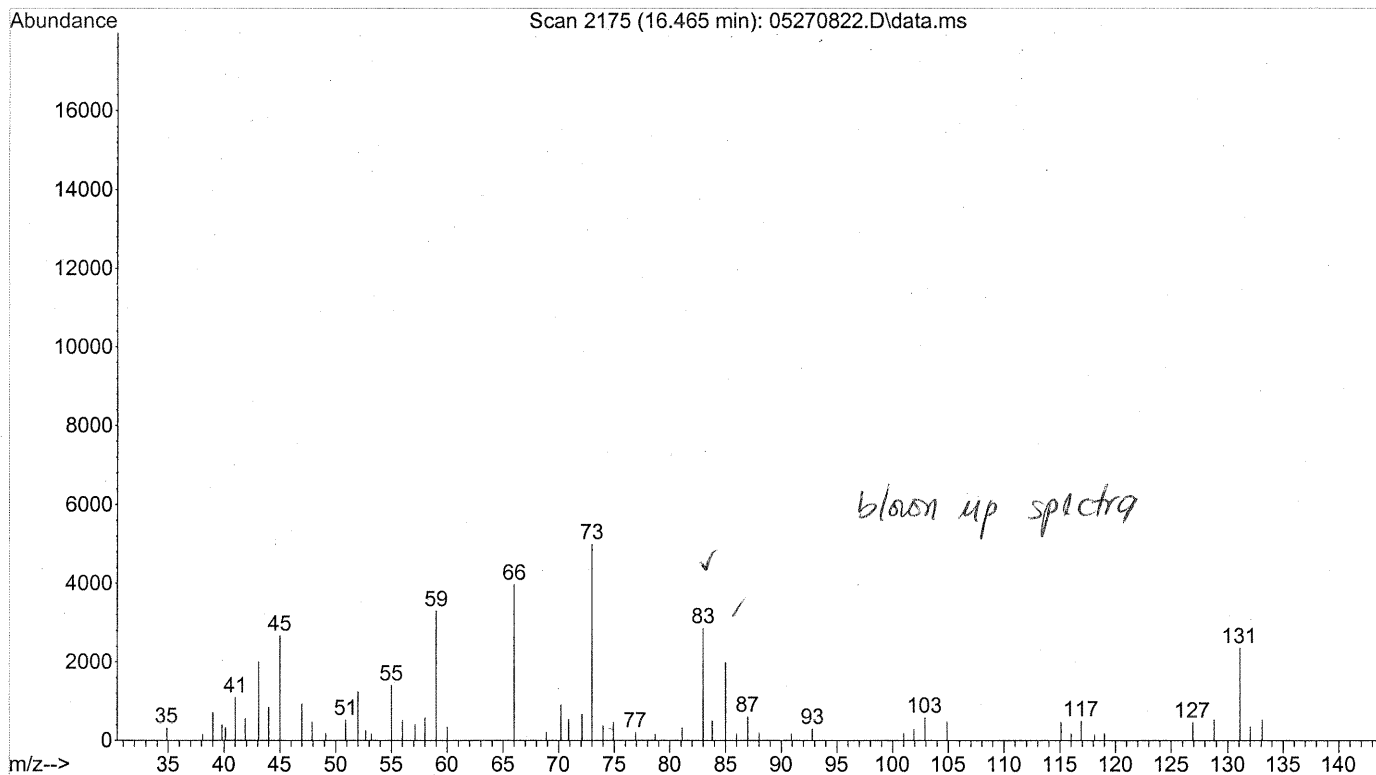
16.465min (+0.011) 0.22ng

response 9558

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 62.99 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

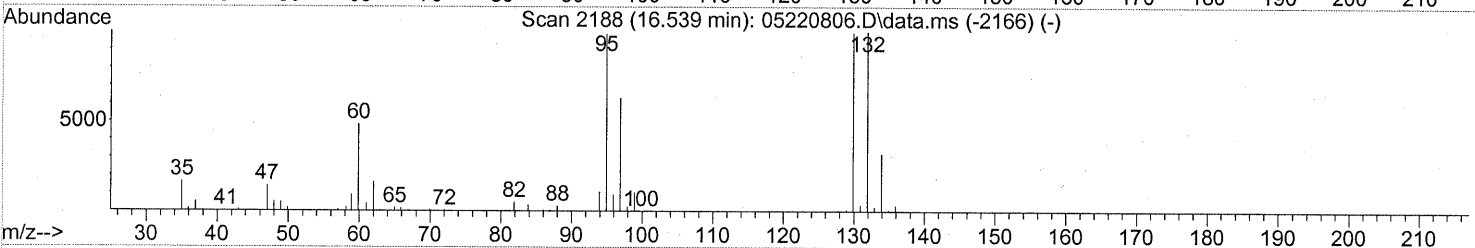
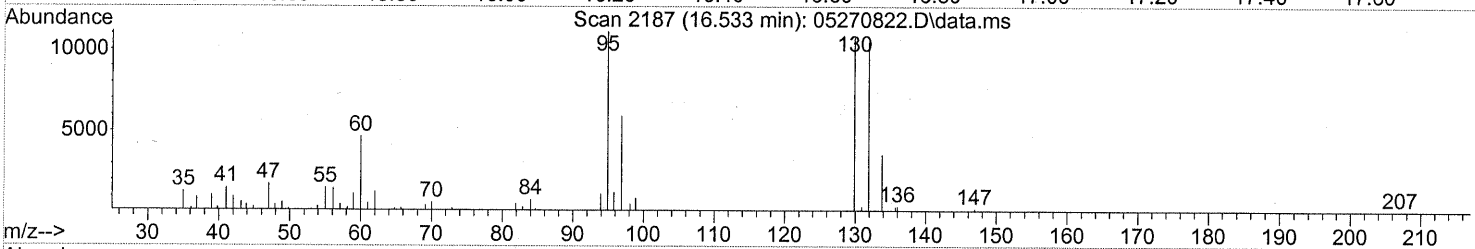
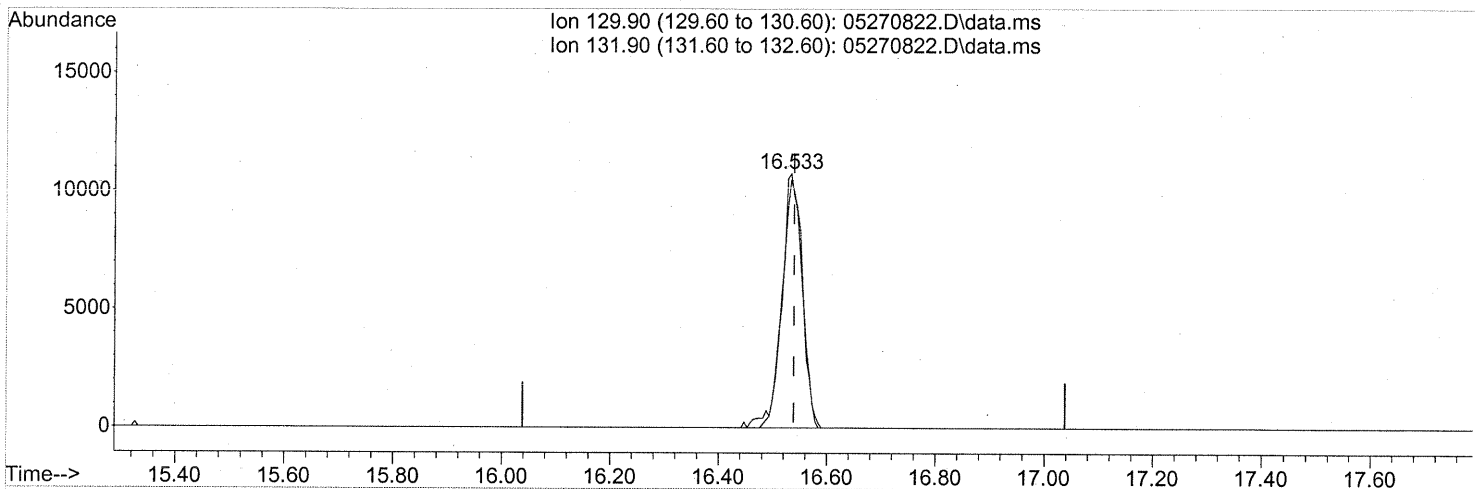
see blown up spectra

File :J:\MS13\DATA\2008_05\27\05270822.D
Operator : WA
Acquired : 28 May 2008 00:32 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-025 (1000ml)
Misc Info : ENSR SG11B-05 (-2.3, 3.5)
Vial Number: 8



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

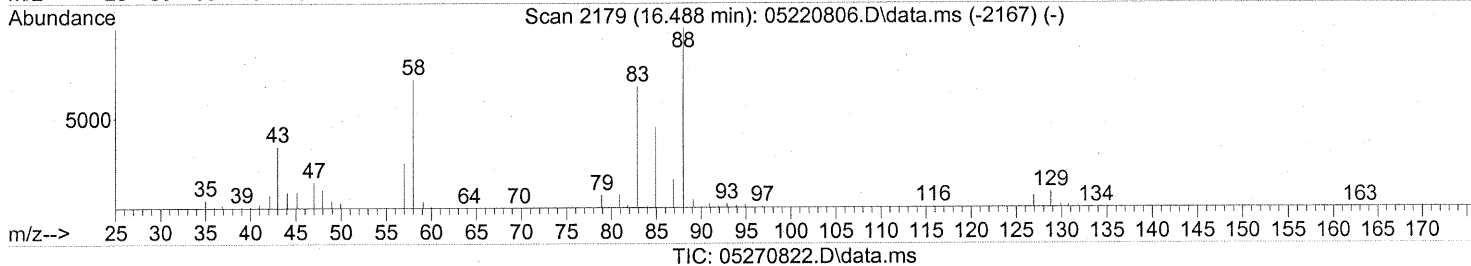
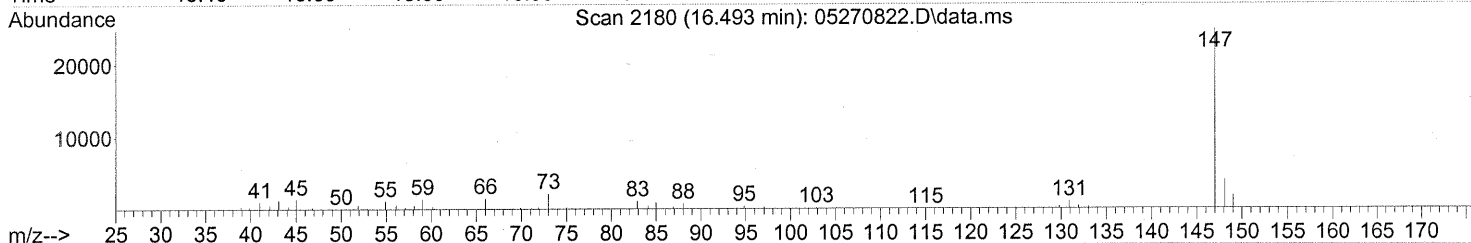
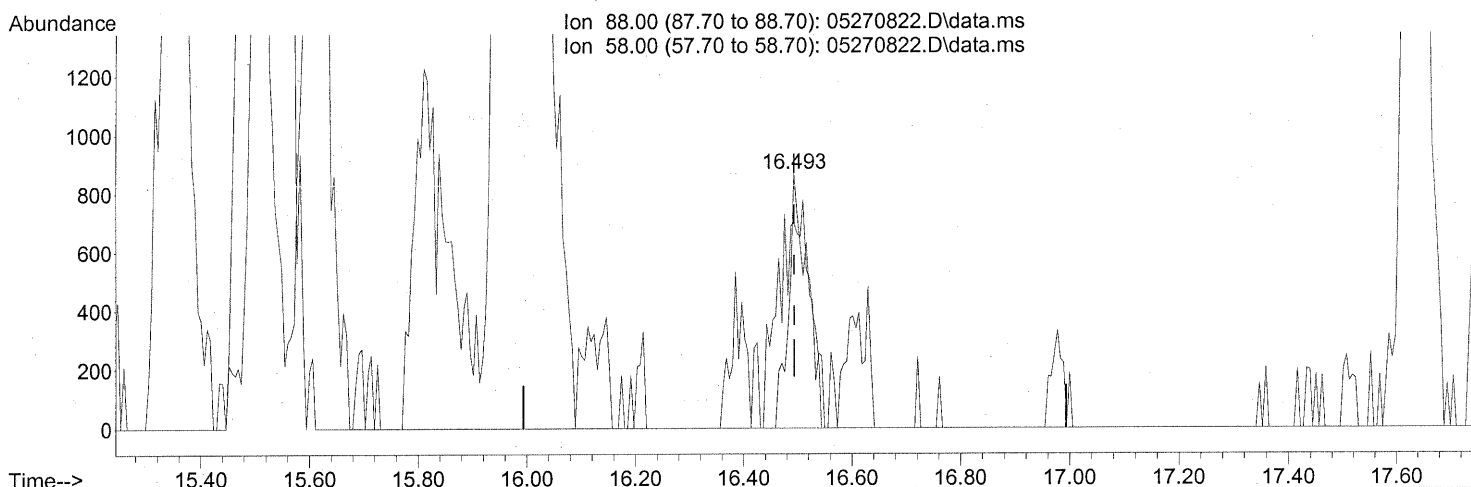
(47) Trichloroethene (T)
 16.533min (-0.006) 0.70ng
 response 27192

| Ion | Exp% | Act% |
|--------|--------|--------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 104.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 12:32 am
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:21:47 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.493min (-0.000) 0.09ng

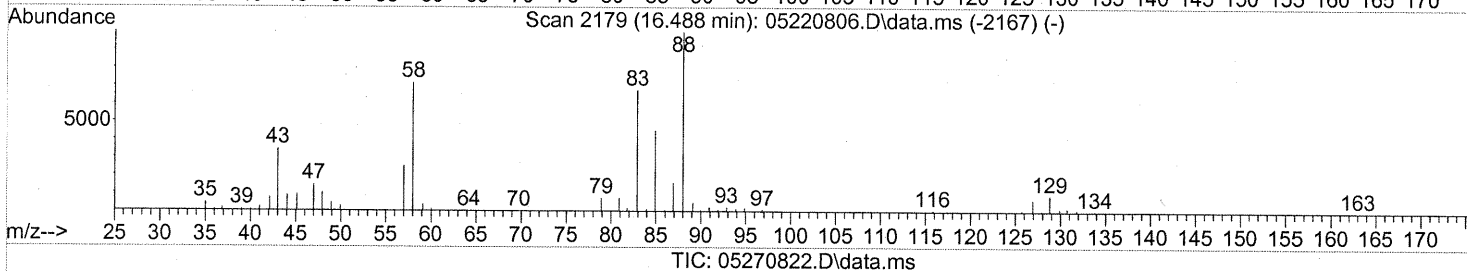
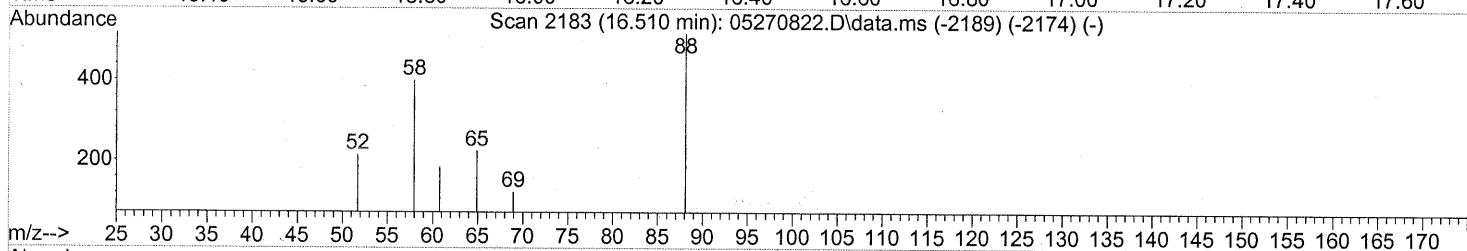
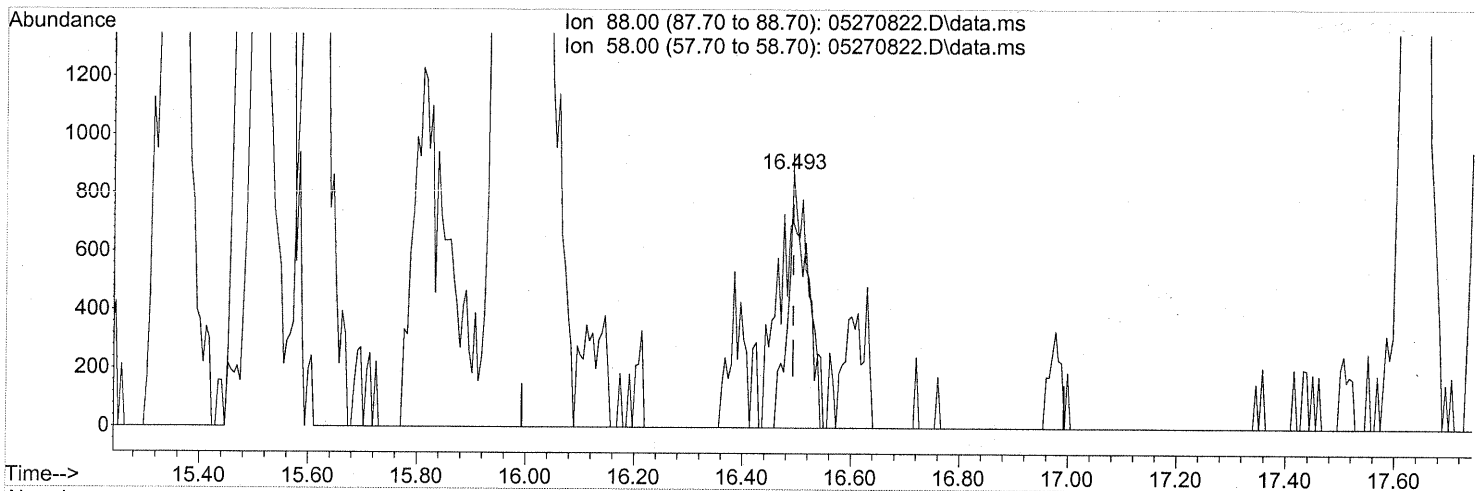
response 2177

before

| Ion | Exp% | Act% |
|-------|-------|---------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 140.74# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)
 16.493min (-0.000) 0.09ng
 response 2177

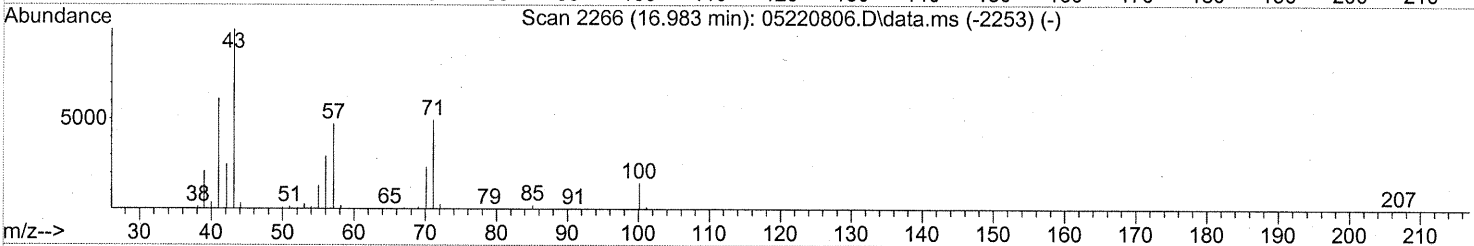
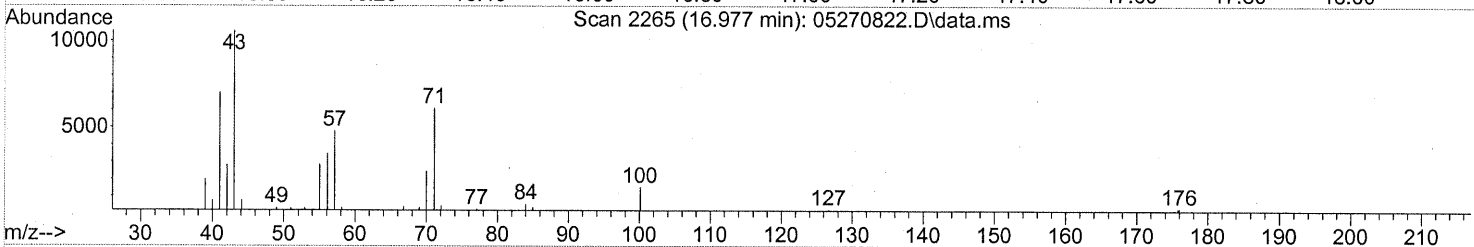
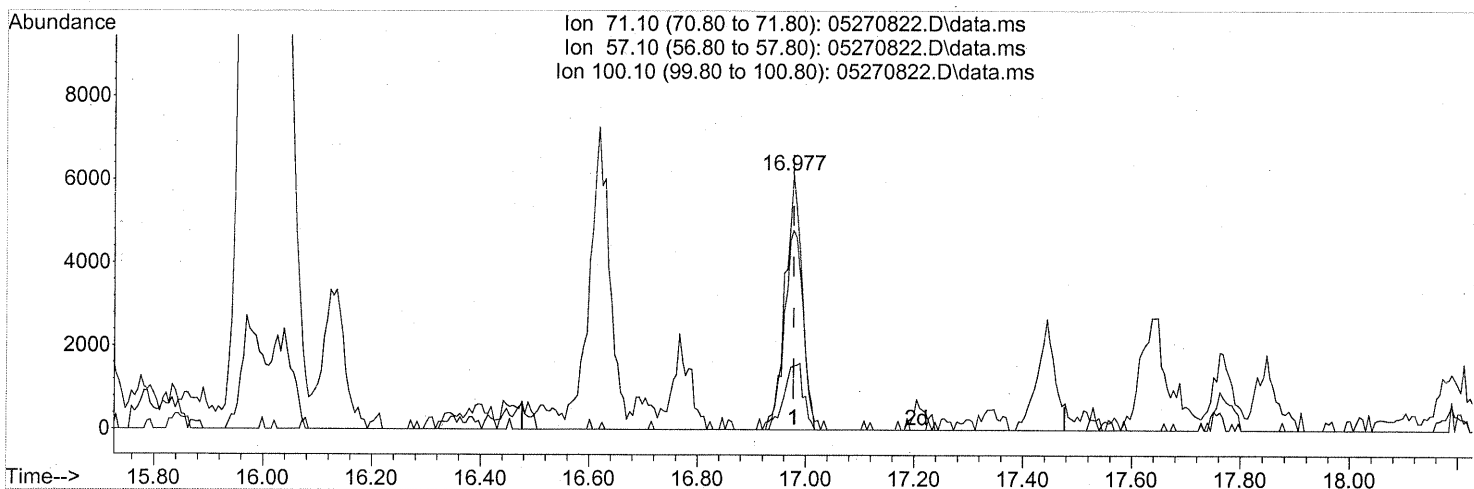
| Ion | Exp% | Act% |
|-------|-------|---------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 140.74# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

after substr.

DA 6/3/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

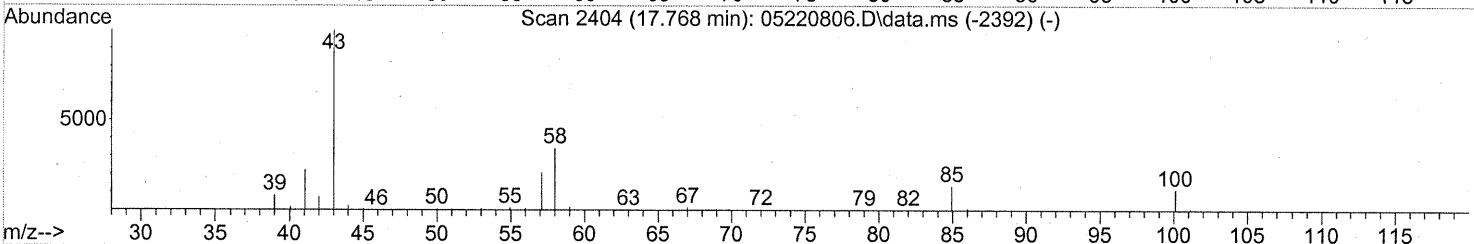
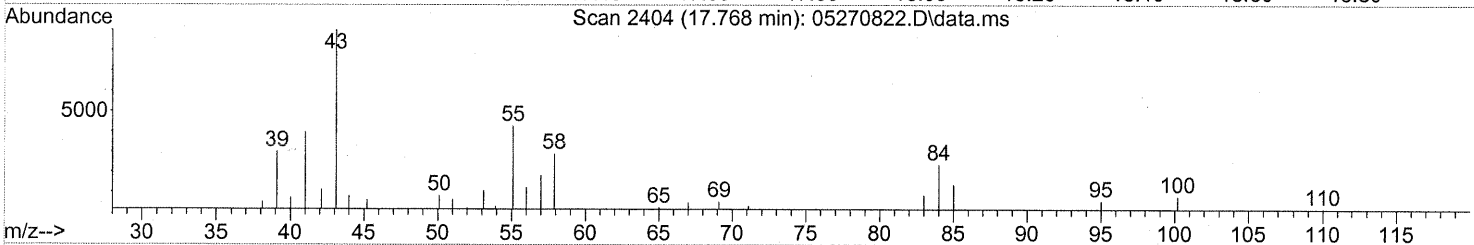
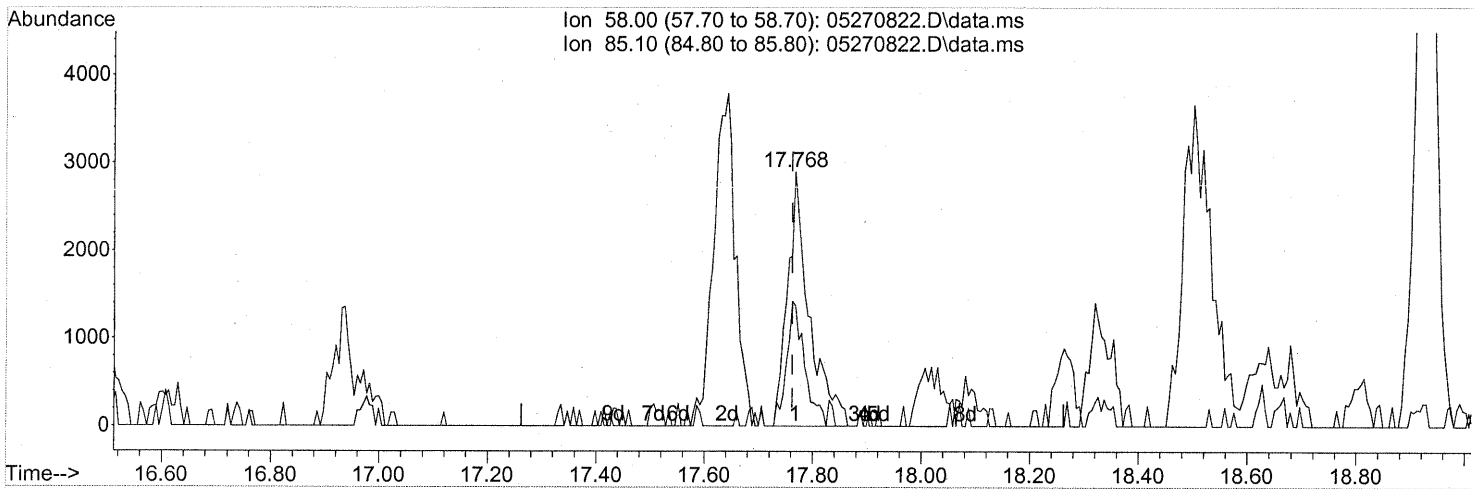


(51) n-Heptane (T)
 16.977min (-0.000) 0.40ng
 response 13279

| Ion | Exp% | Act% |
|--------|--------|--------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 87.33# |
| 100.10 | 30.10 | 29.47 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.768min (+0.006) 0.24ng

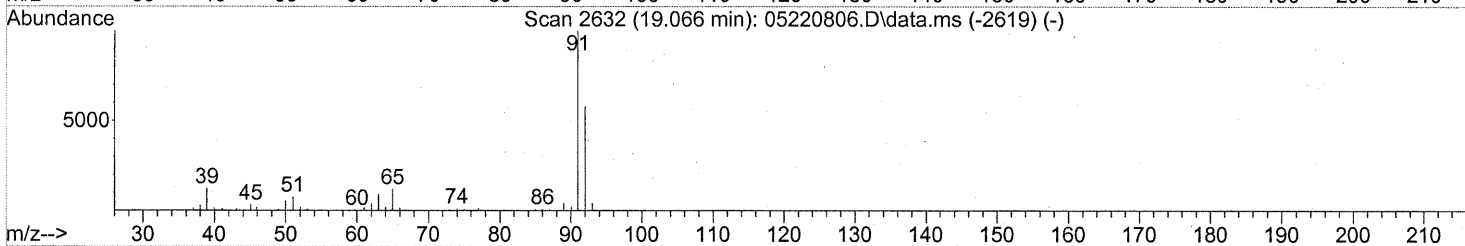
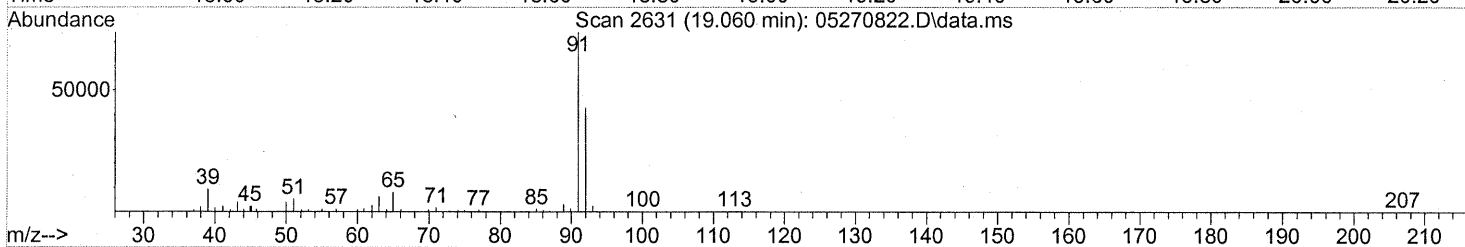
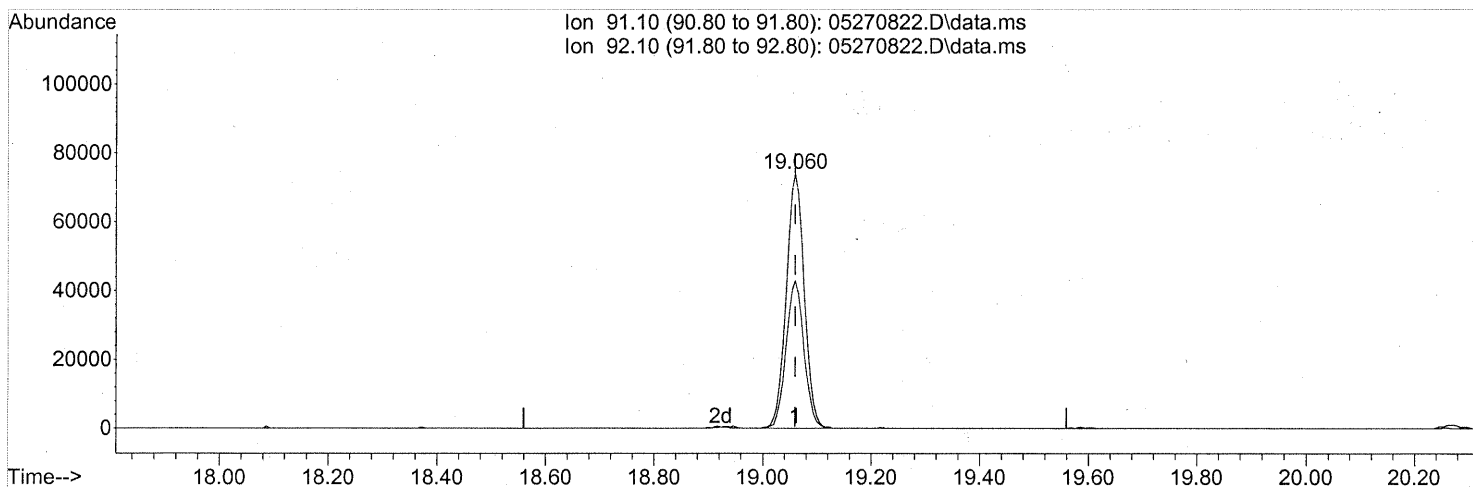
response 8065

| Ion | Exp% | Act% |
|-------|-------|-------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 40.93 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 1.25ng

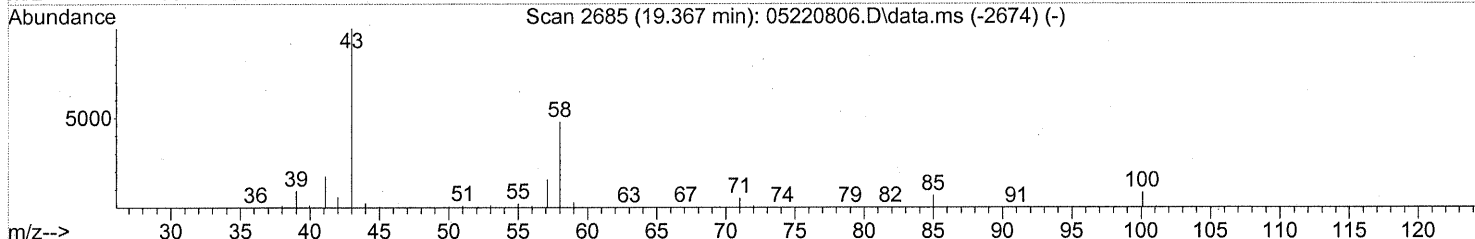
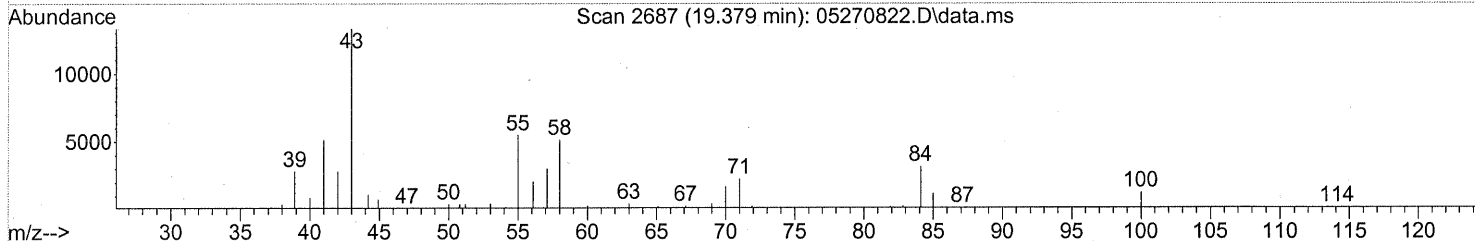
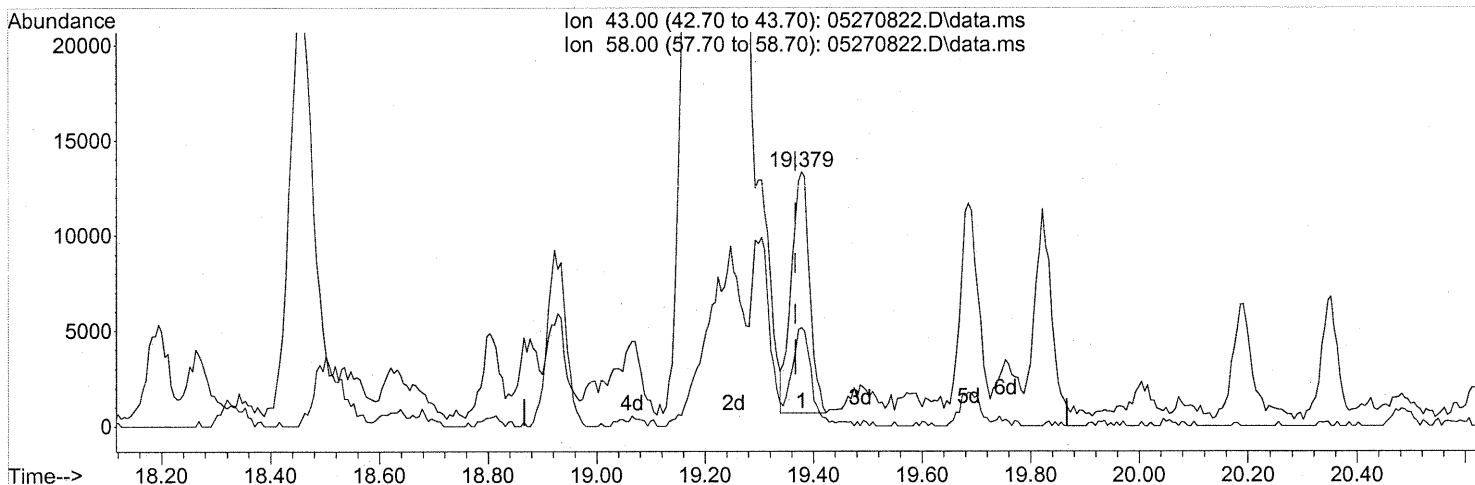
response 169780

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 57.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1156

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

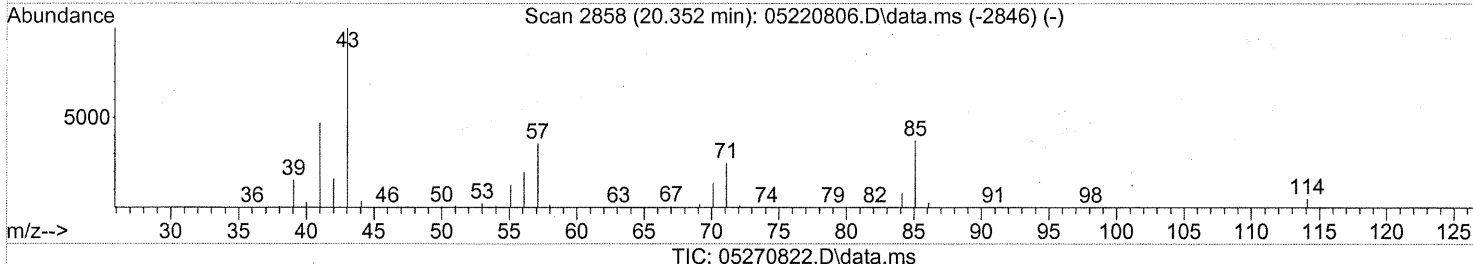
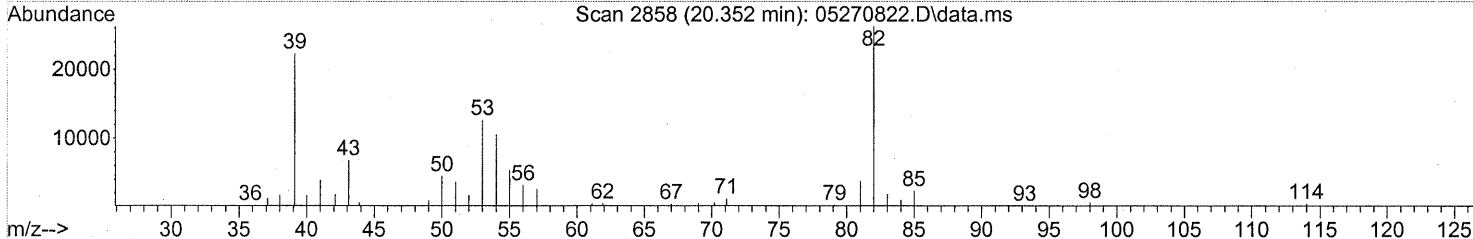
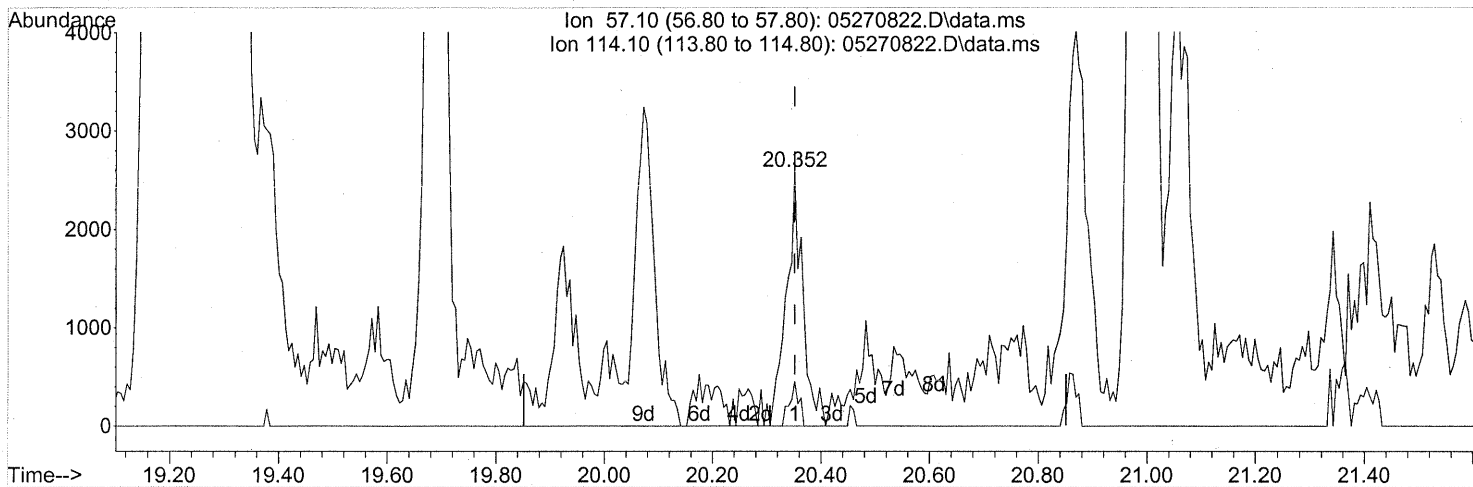
(59) 2-Hexanone (T)
 19.379min (+0.011) 0.32ng
 response 29638

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 44.19 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



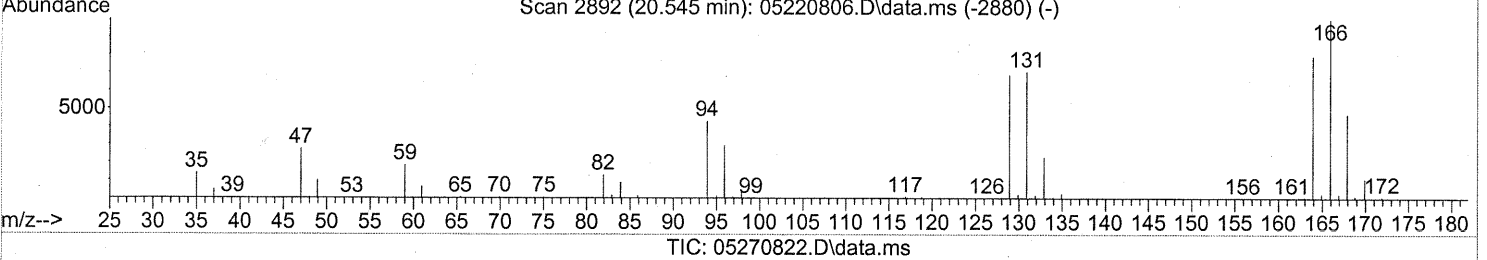
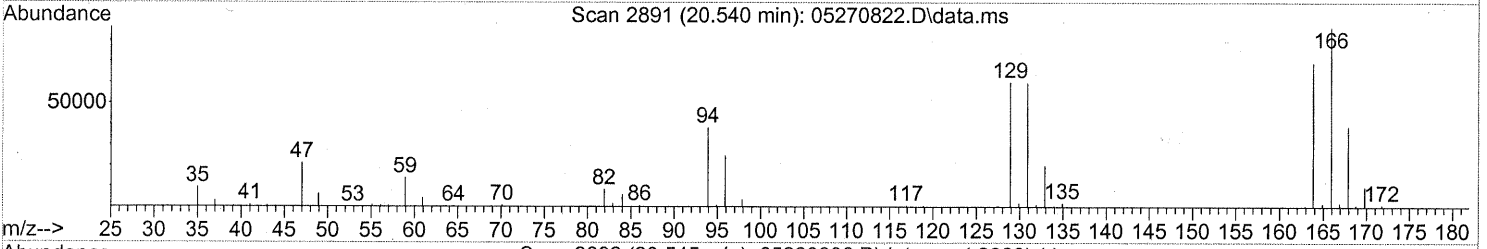
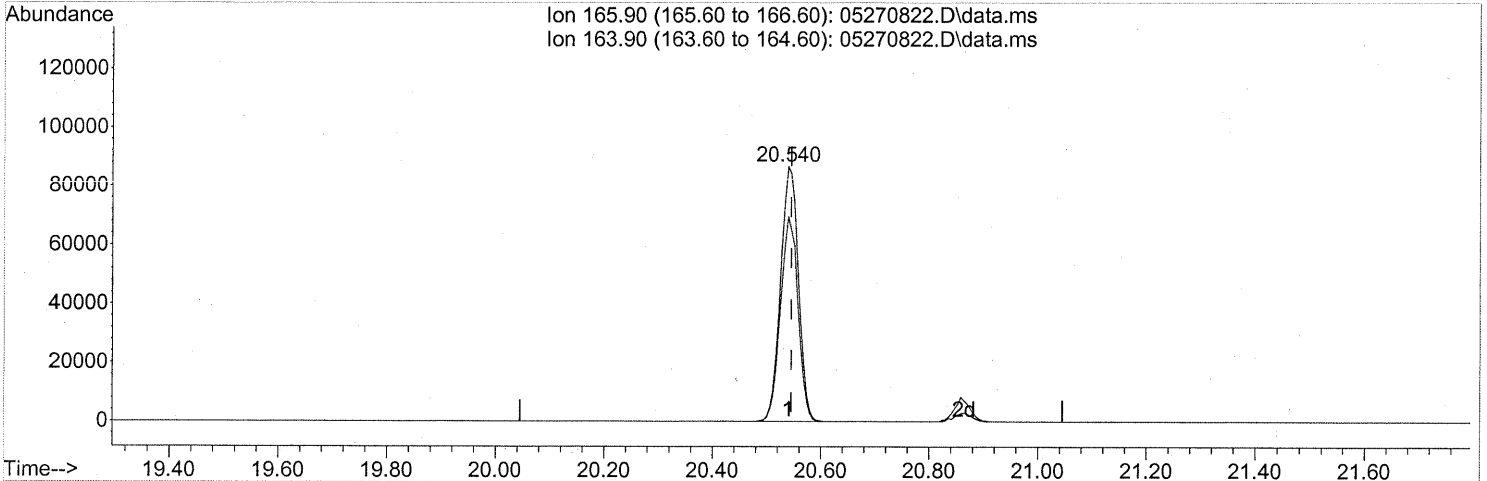
(63) n-Octane (T)
 20.352min (-0.000) 0.18ng
 response 5460

| Ion | Exp% | Act% |
|--------|-------|-------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 10.15 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 4.88ng

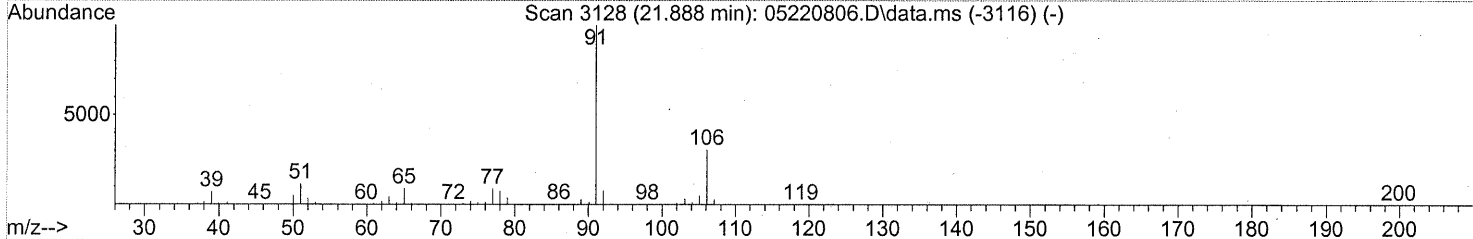
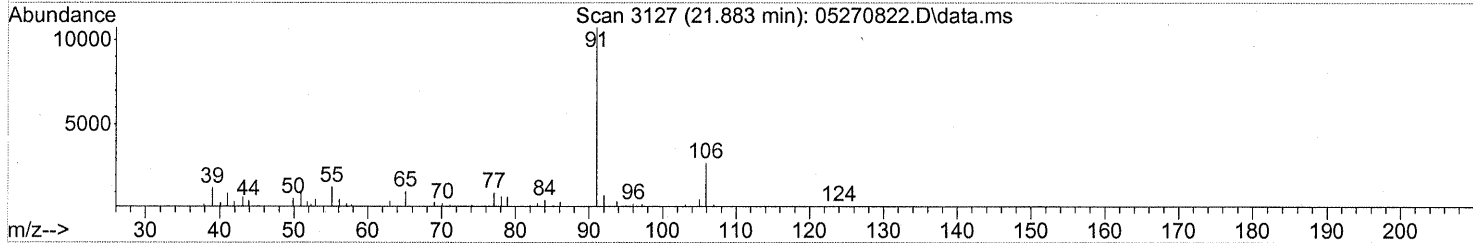
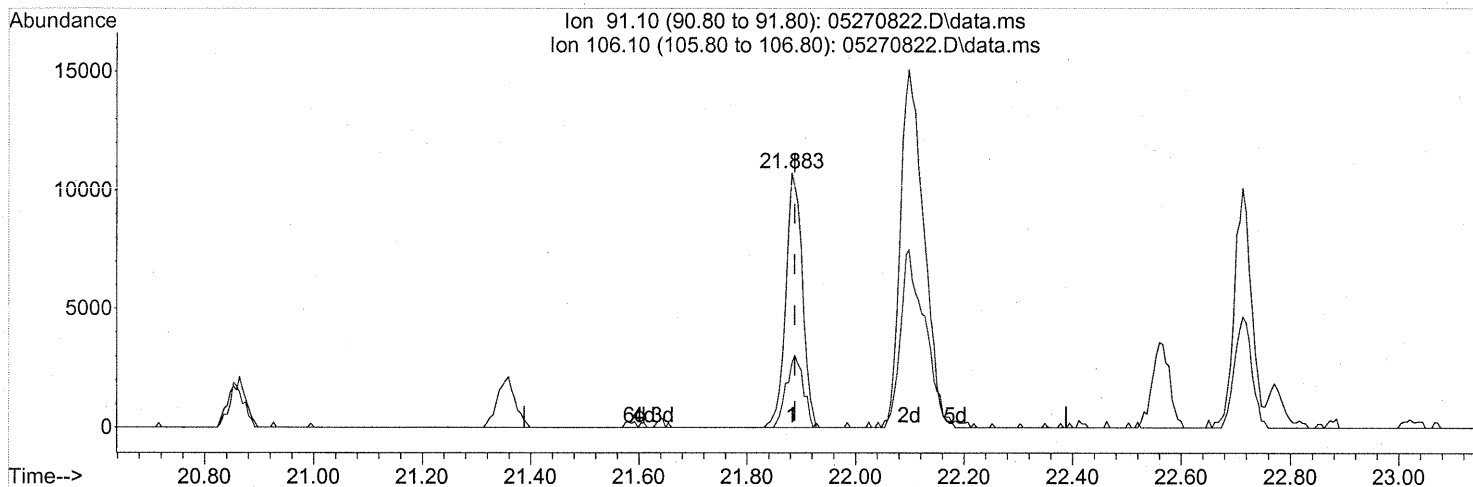
response 196560

| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 78.90 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

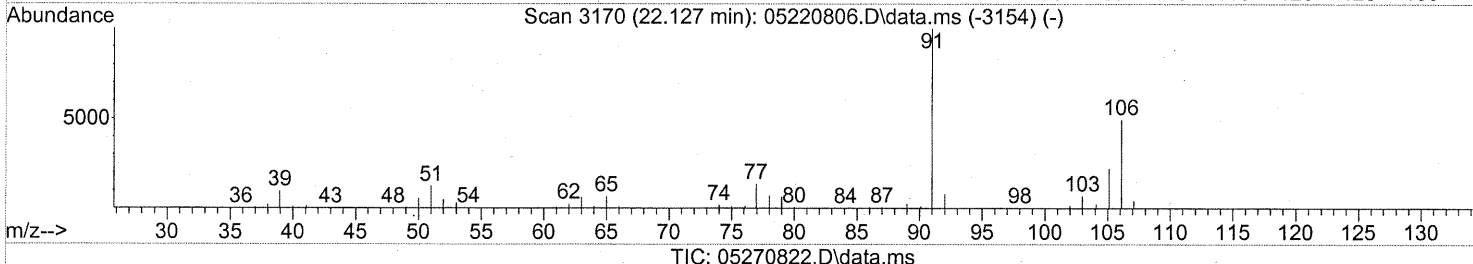
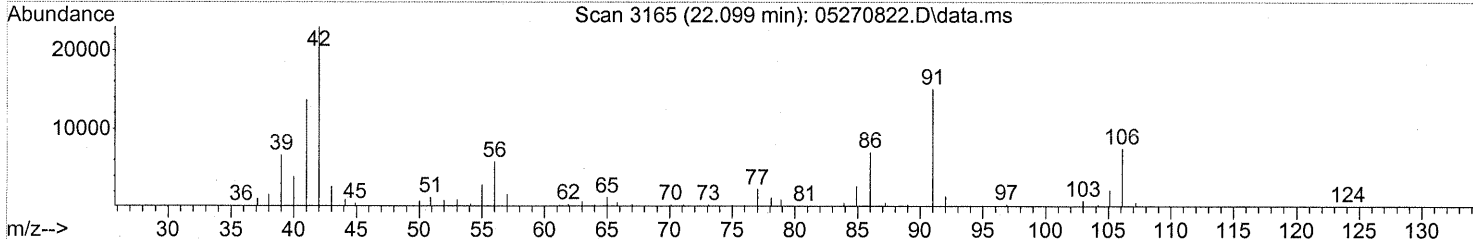
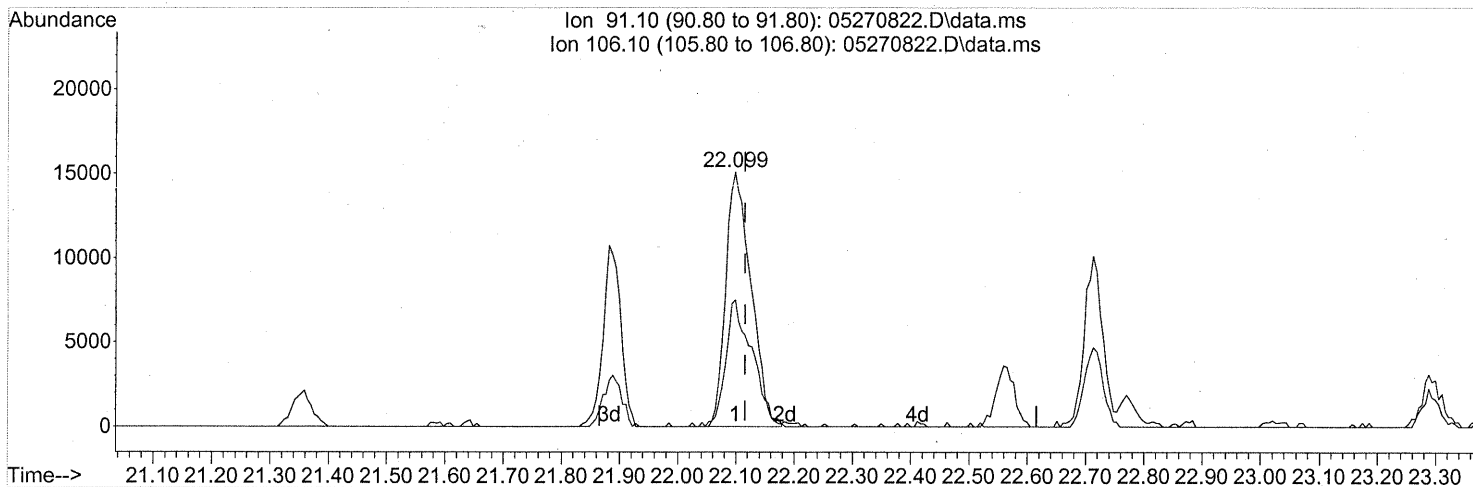
(66) Ethylbenzene (T)
 21.883min (-0.006) 0.15ng
 response 22663

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 34.10 | 29.19 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.099min (-0.017) 0.43ng

response 45315

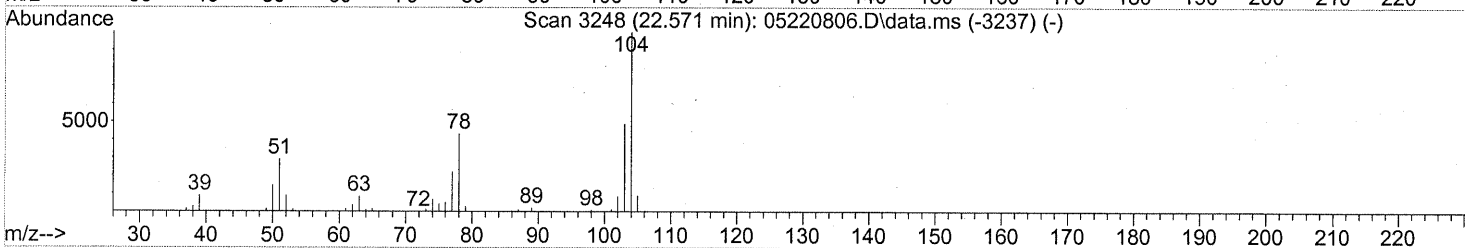
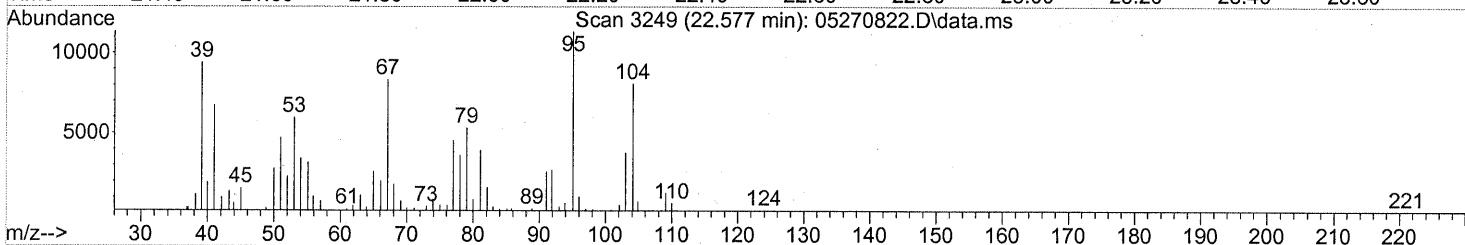
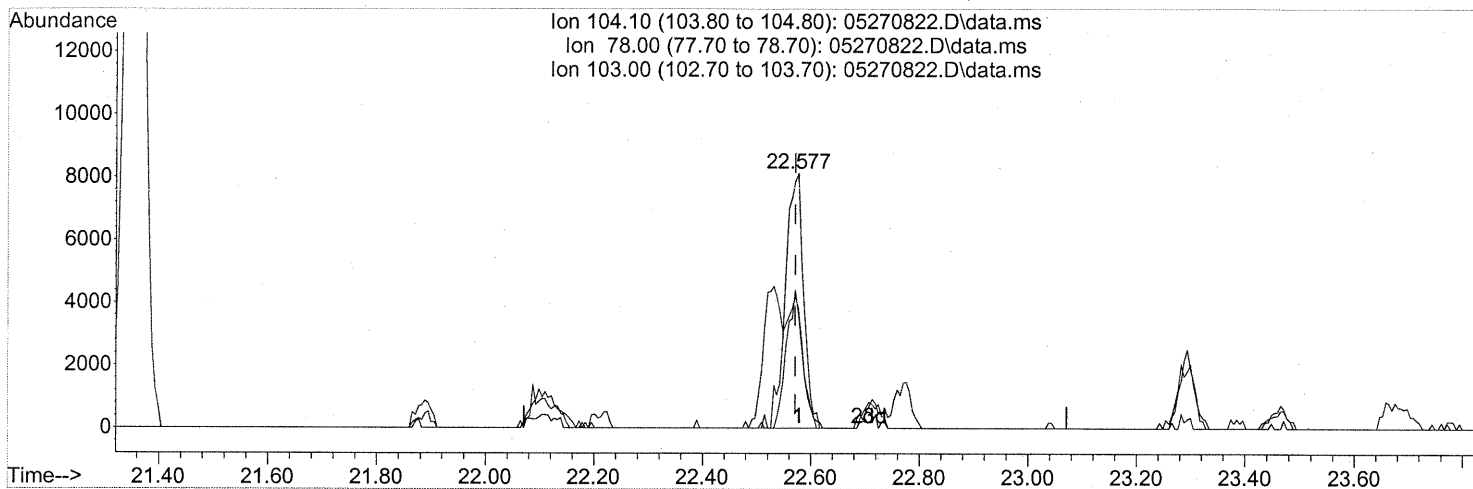
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 51.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1161

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

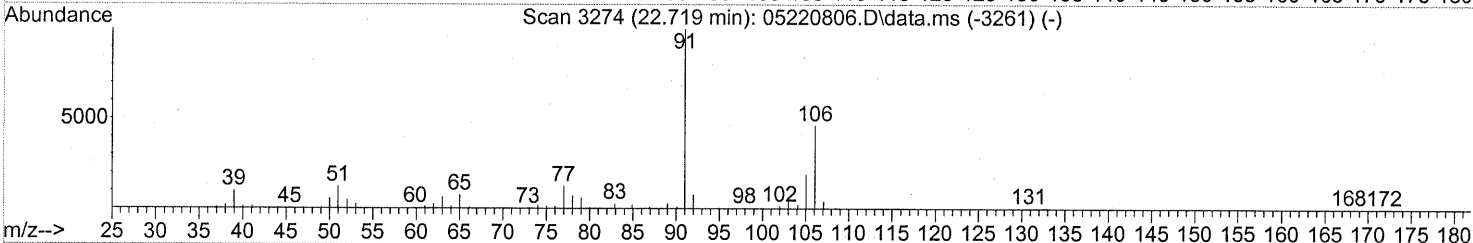
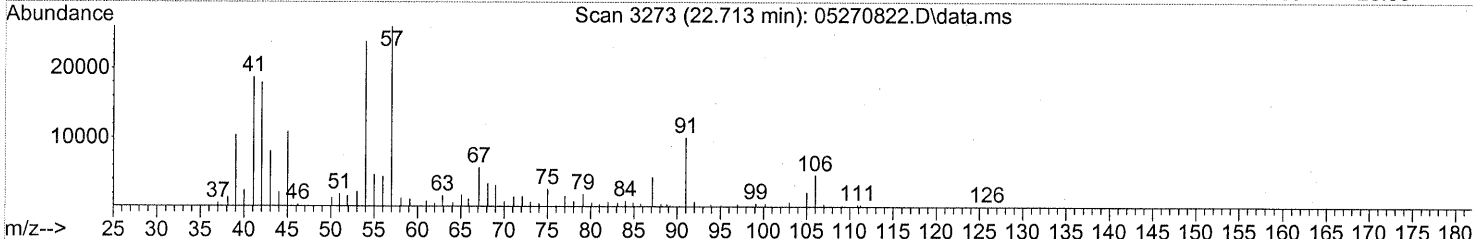
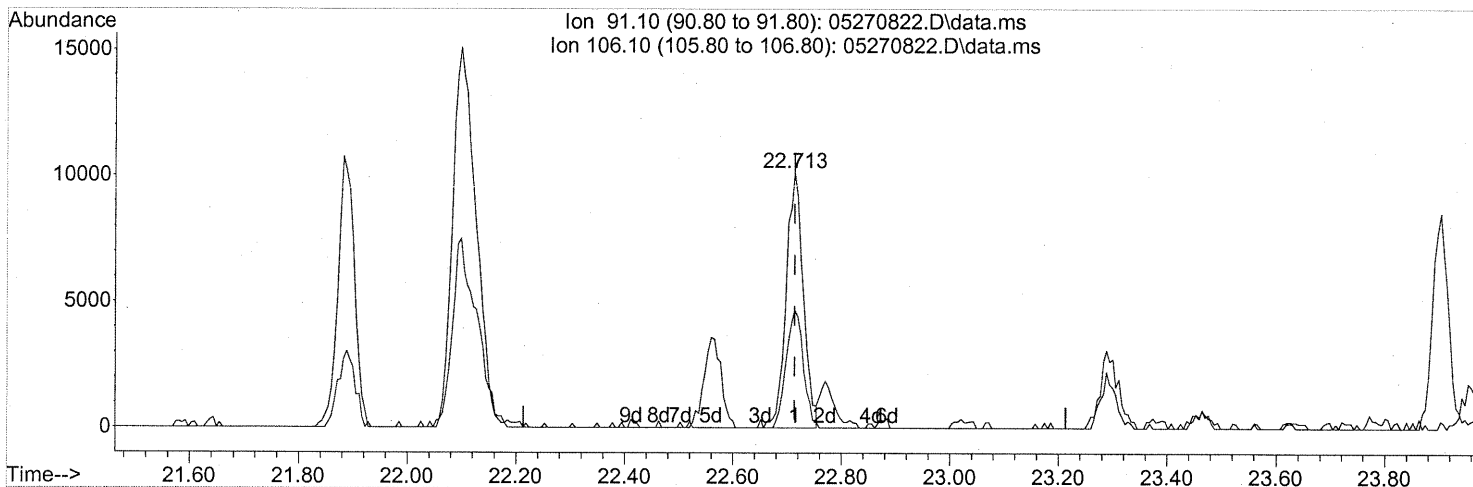
(69) Styrene (T)
 22.577min (+0.006) 0.20ng
 response 18906

| Ion | Exp% | Act% |
|--------|-------|-------|
| 104.10 | 100 | 100 |
| 78.00 | 39.40 | 47.09 |
| 103.00 | 47.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.713min (-0.000) 0.20ng
 response 22165

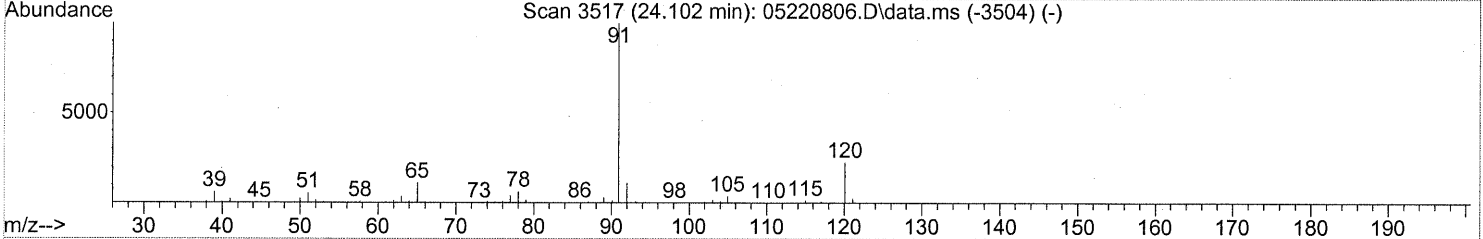
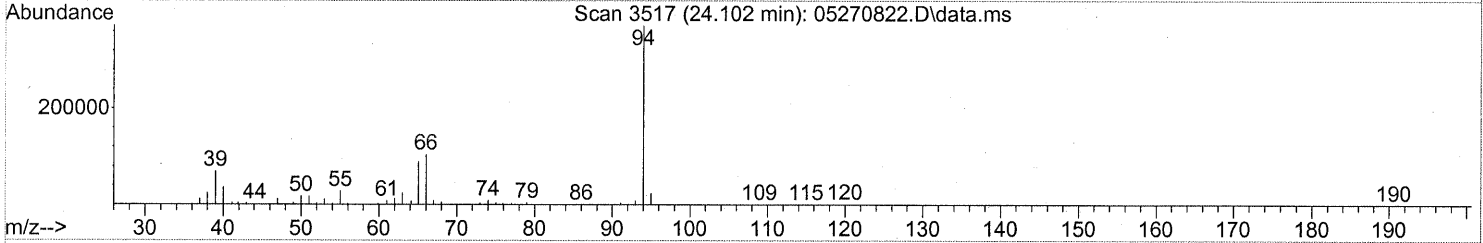
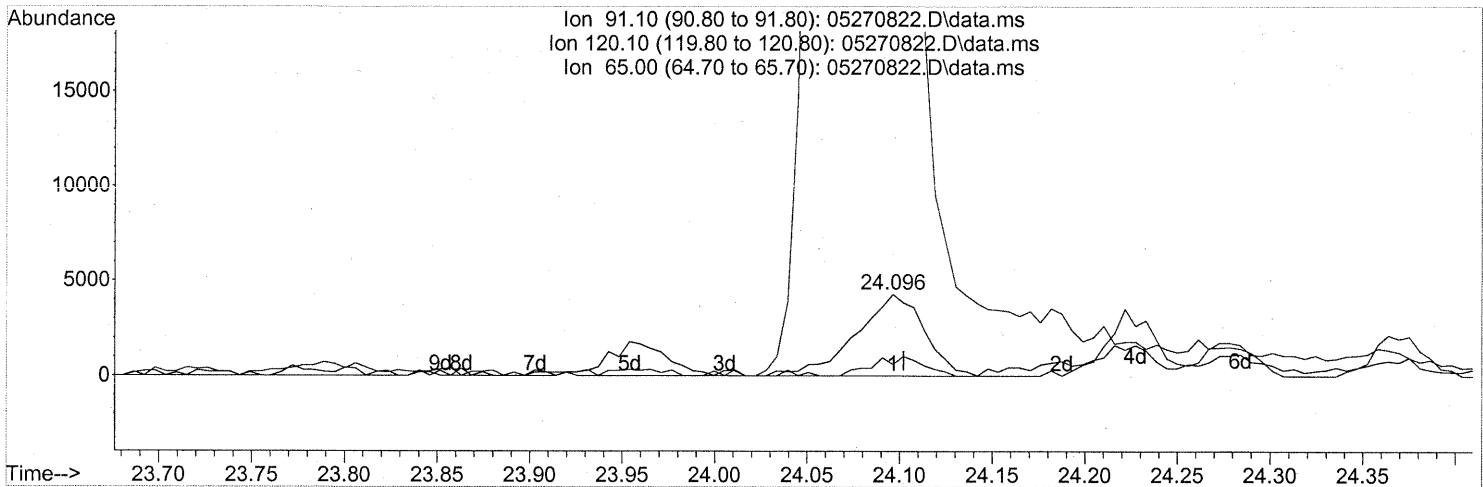
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 46.64 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1163

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.06ng

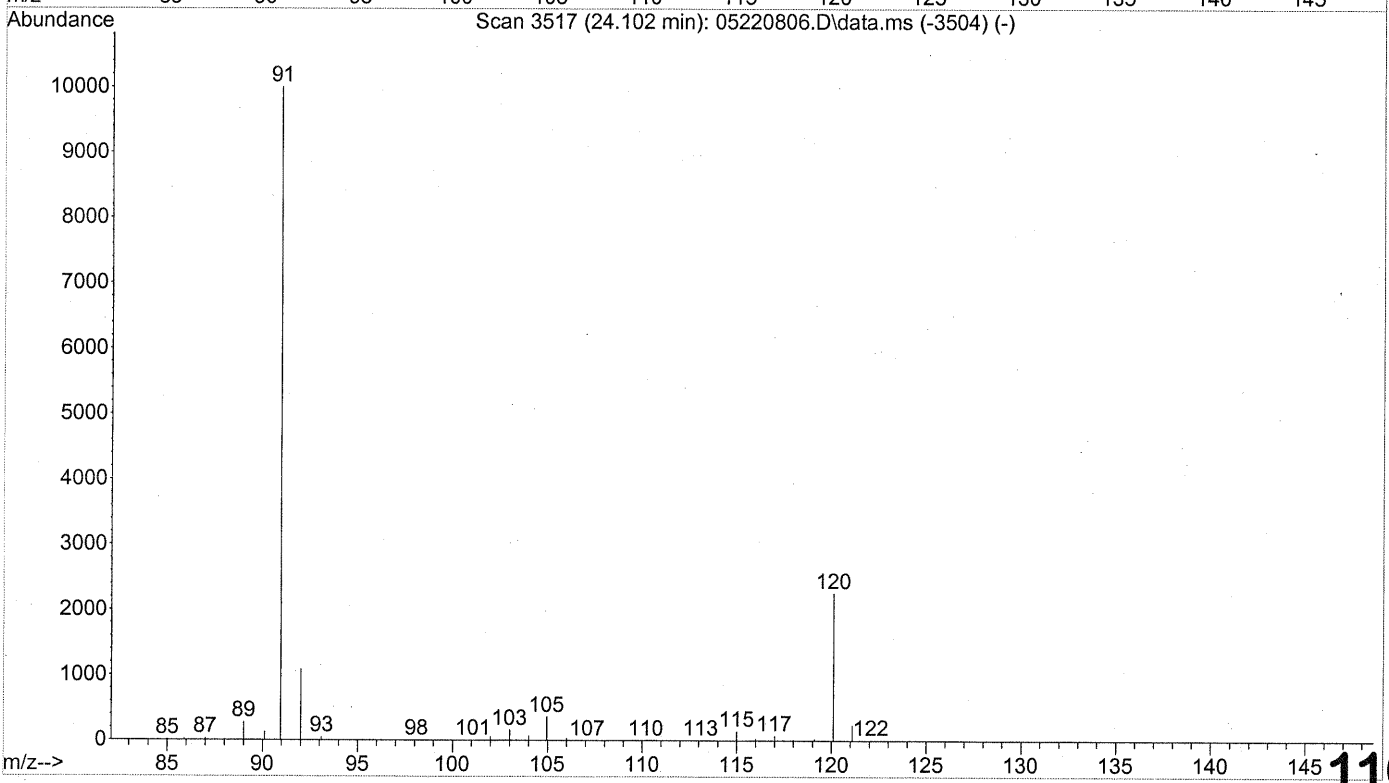
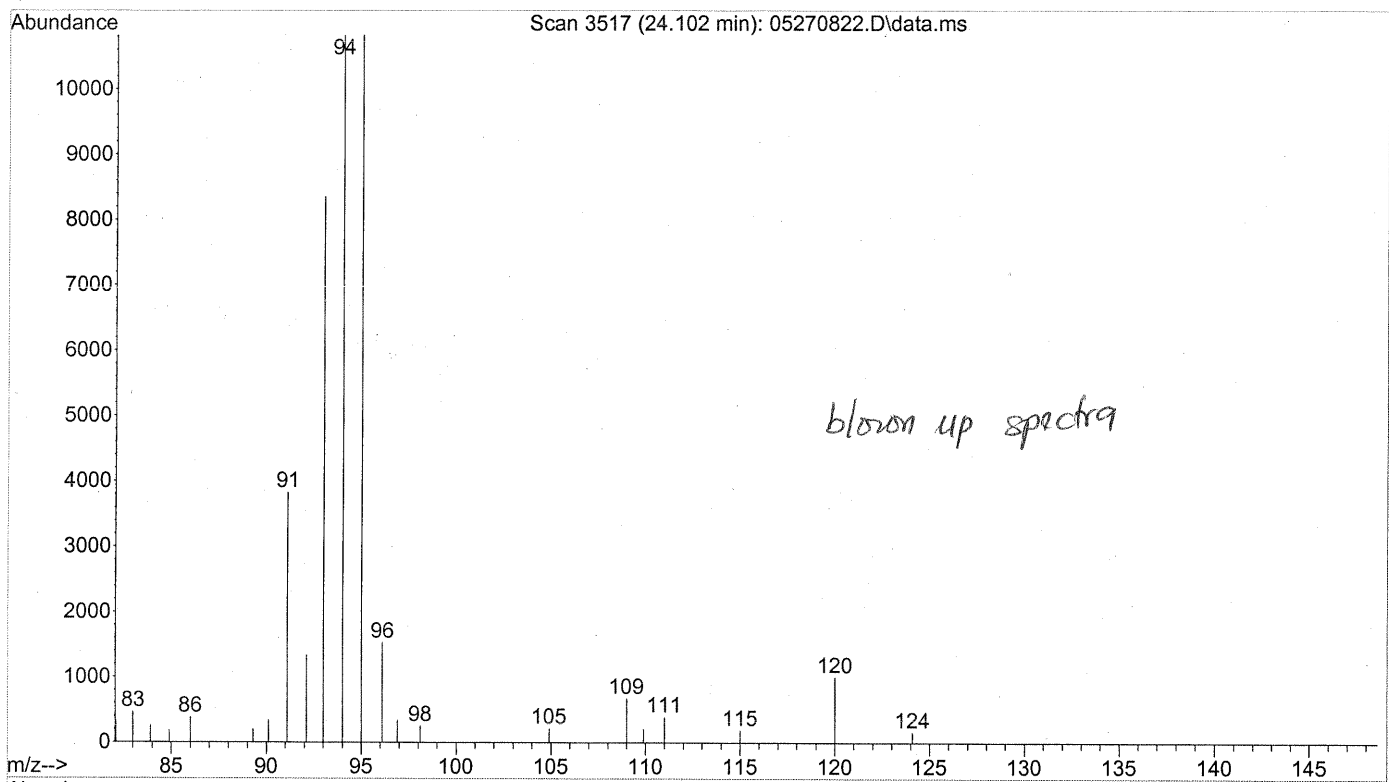
response 10824

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 17.19 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

su blown up spectra

1164

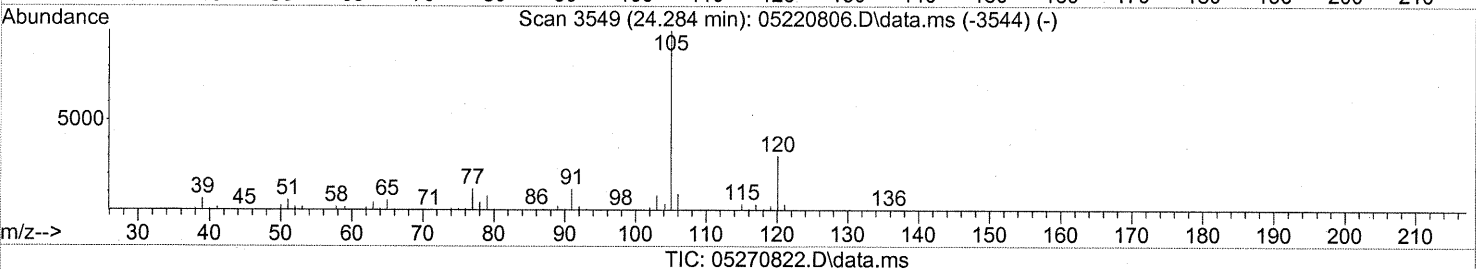
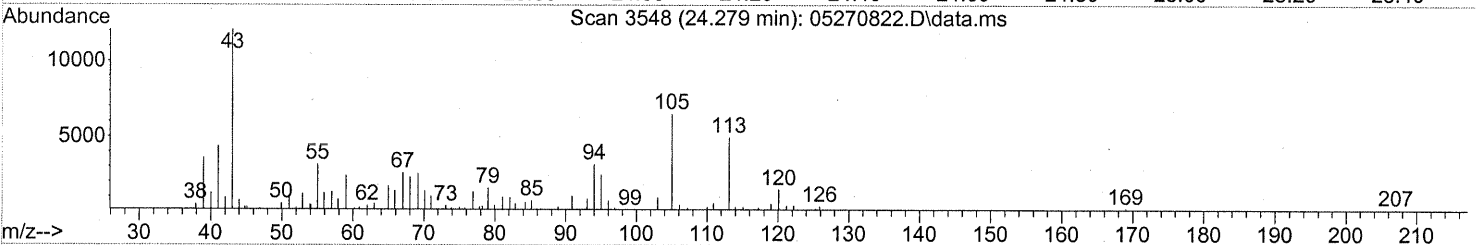
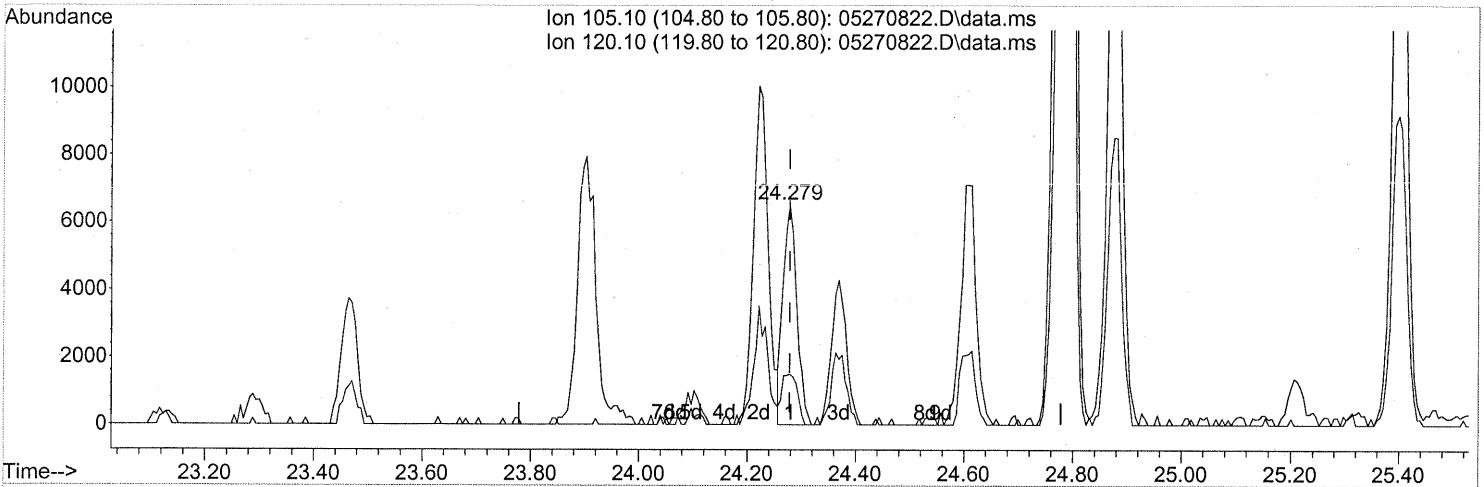
File : J:\MS13\DATA\2008_05\27\05270822.D
Operator : WA
Acquired : 28 May 2008 00:32 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-025 (1000ml)
Misc Info : ENSR SG11B-05 (-2.3, 3.5)
Vial Number: 8



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



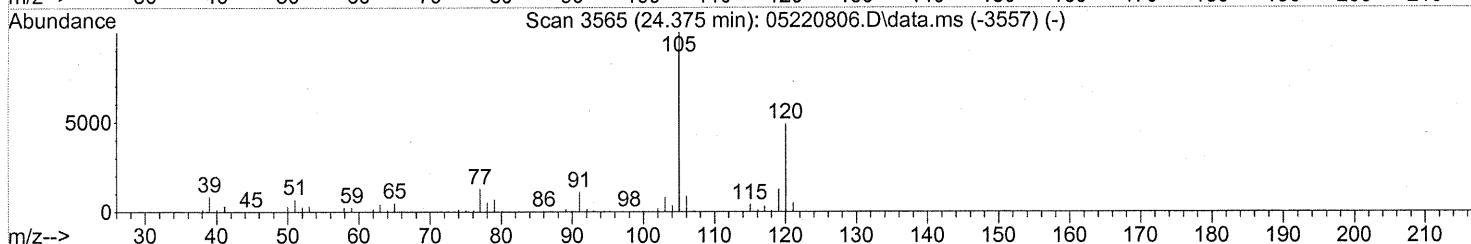
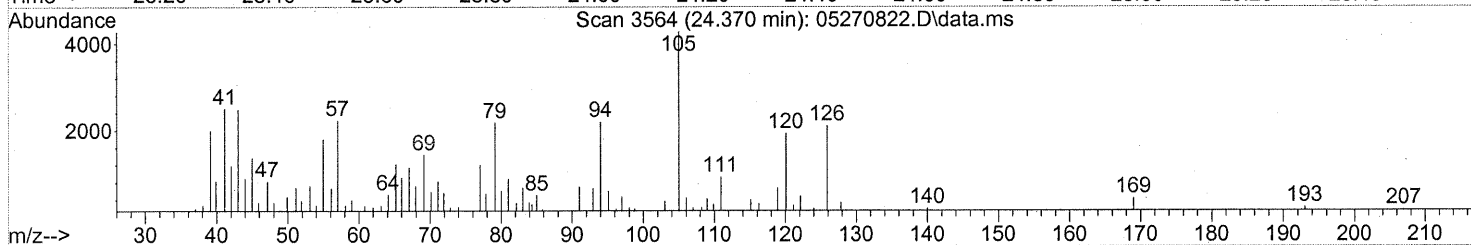
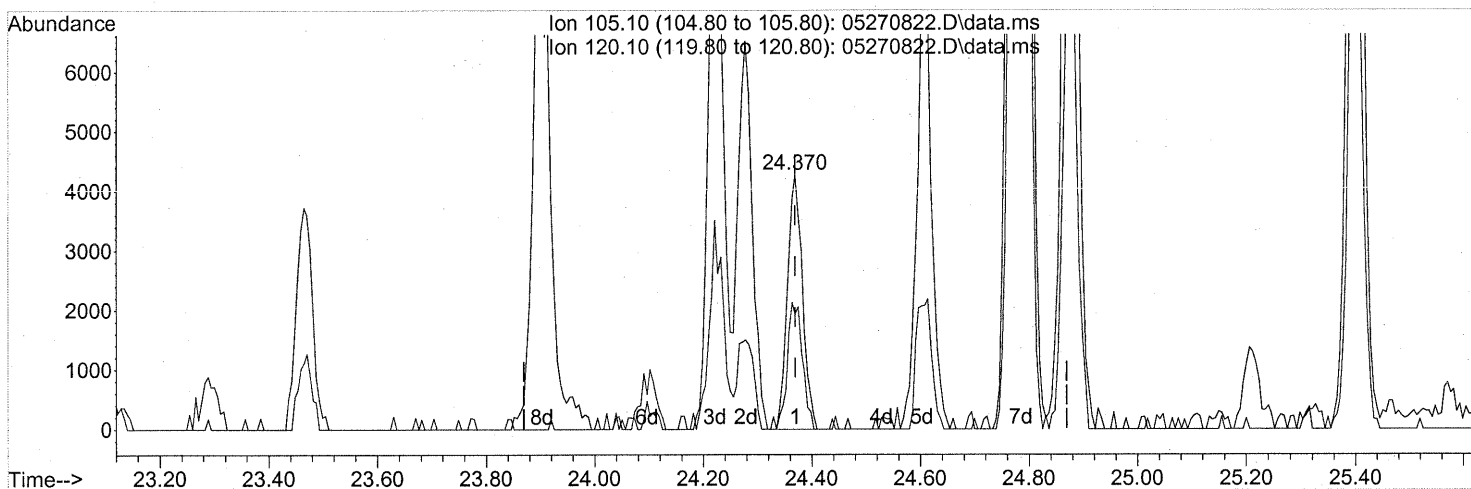
(78) 4-Ethyltoluene (T)
 24.279min (-0.000) 0.08ng
 response 11542

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 25.89 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

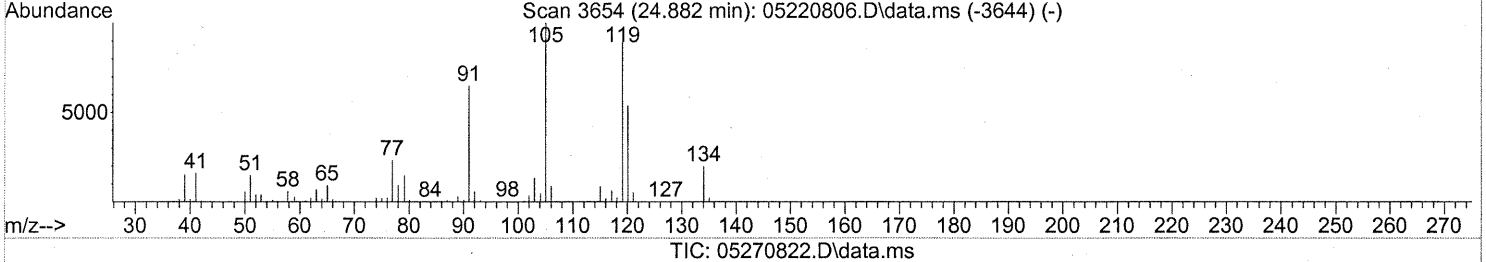
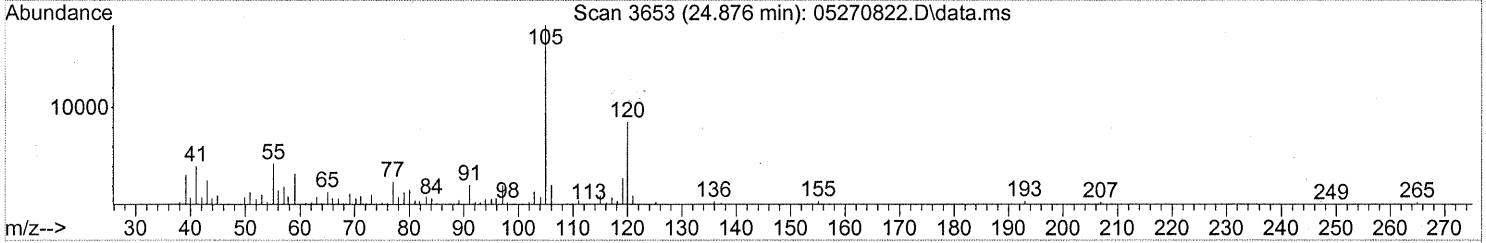
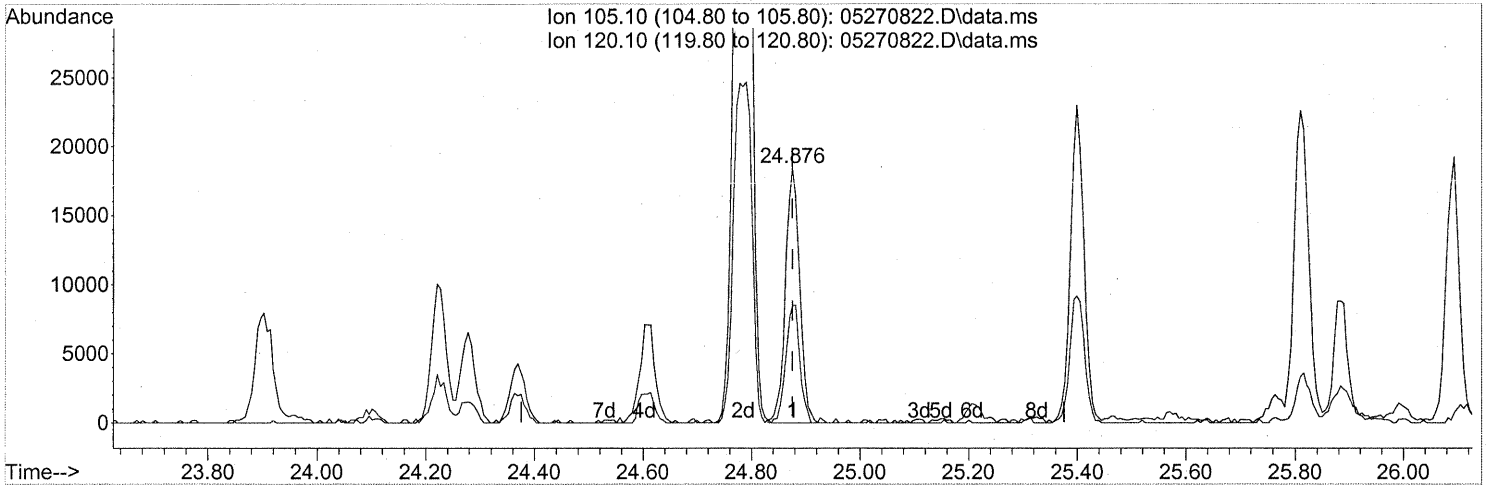
24.370min (-0.000) 0.06ng

response 8265

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 49.40 | 49.29 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.24ng

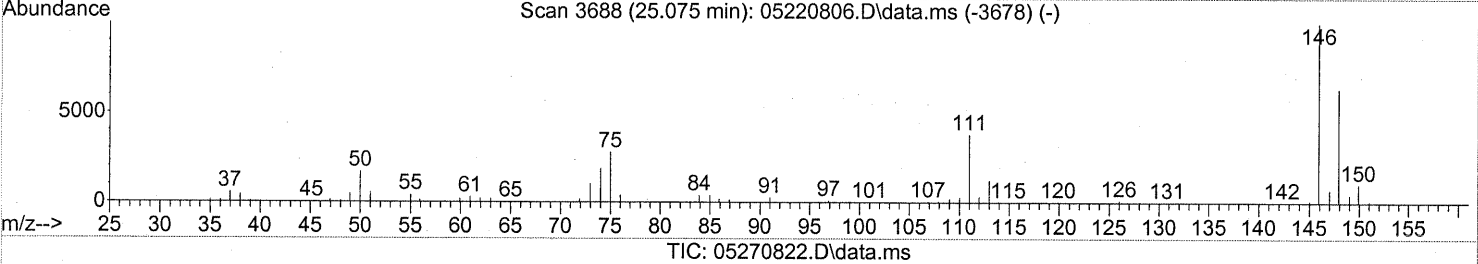
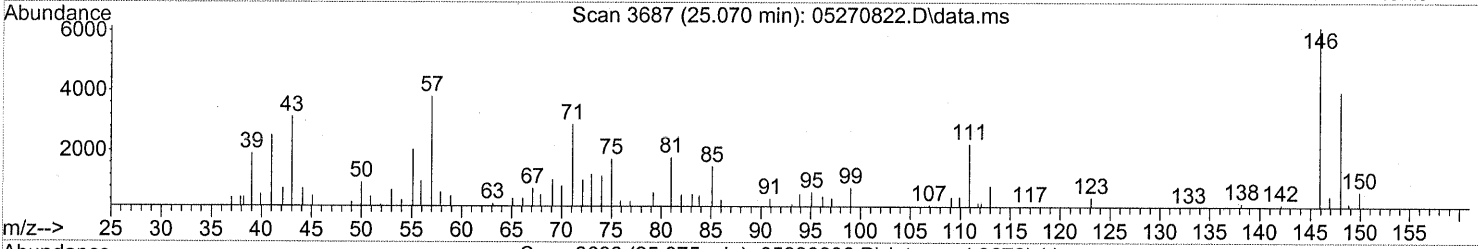
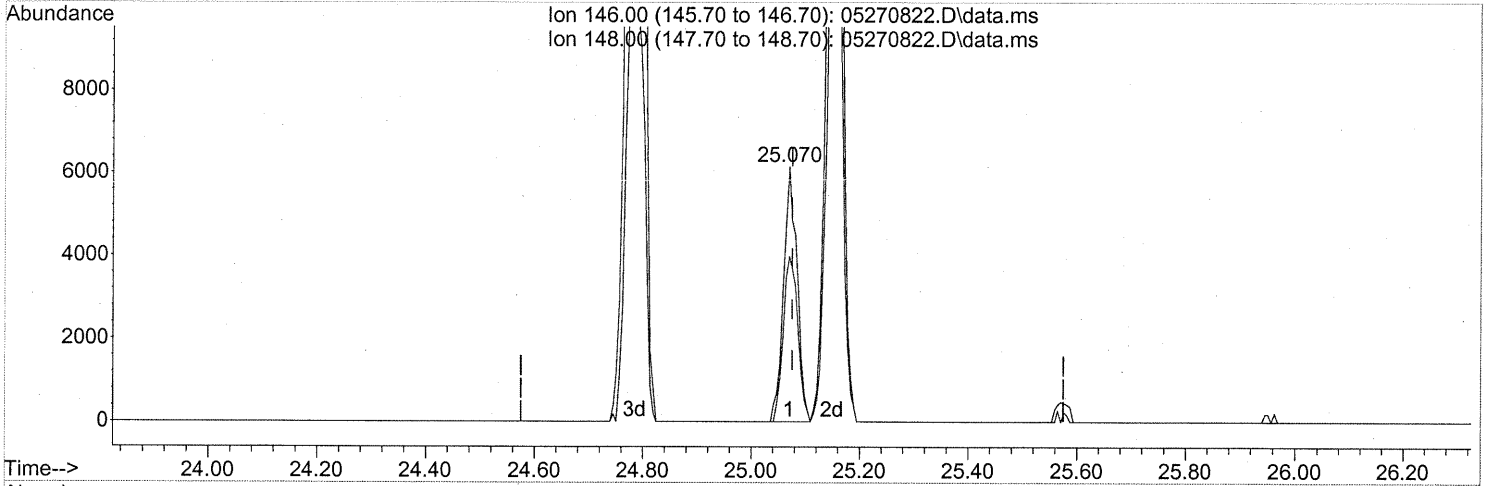
response 33513

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 45.47 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

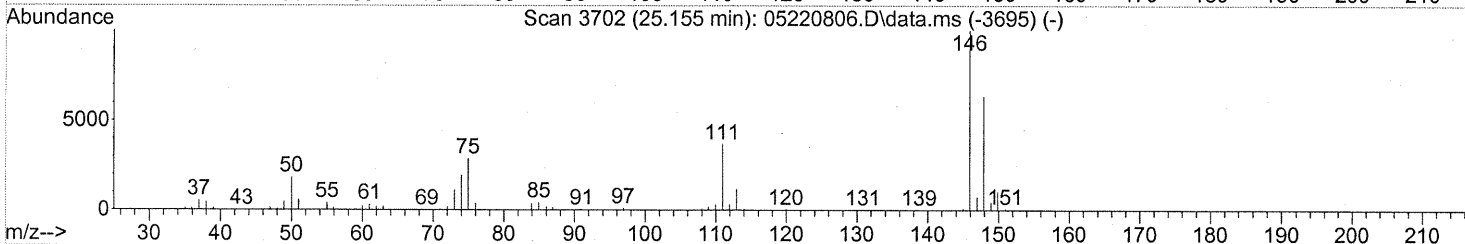
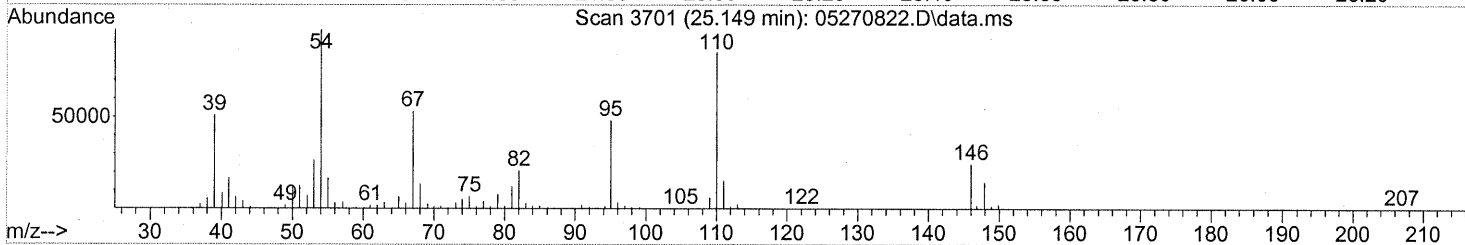
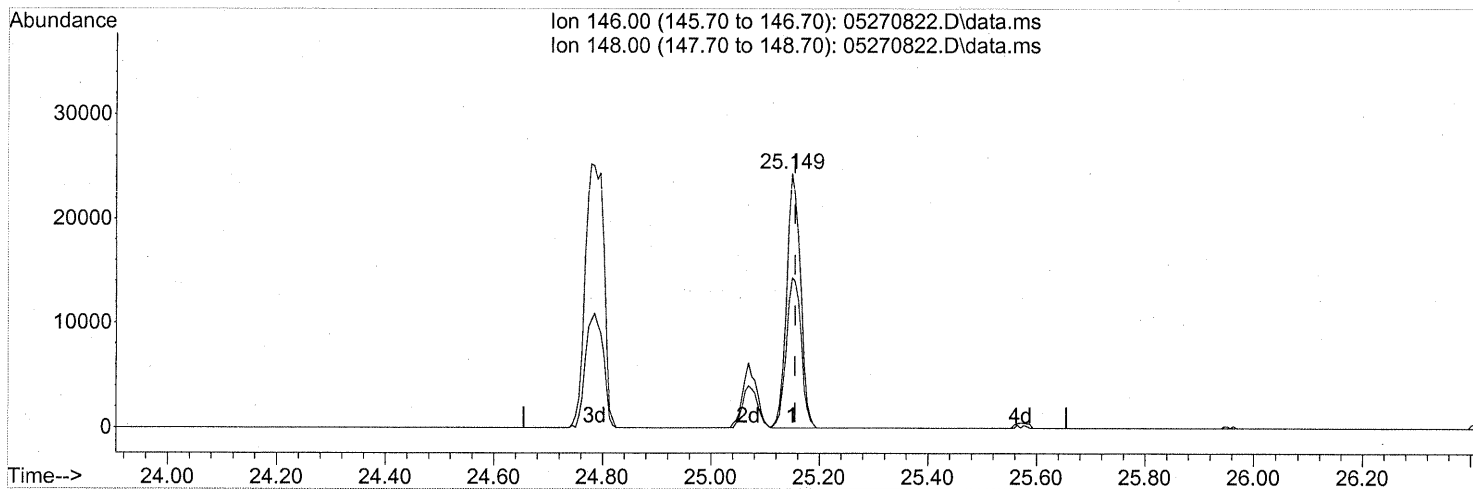
25.070min (-0.006) 0.12ng

response 10683

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.00 | 69.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.52ng

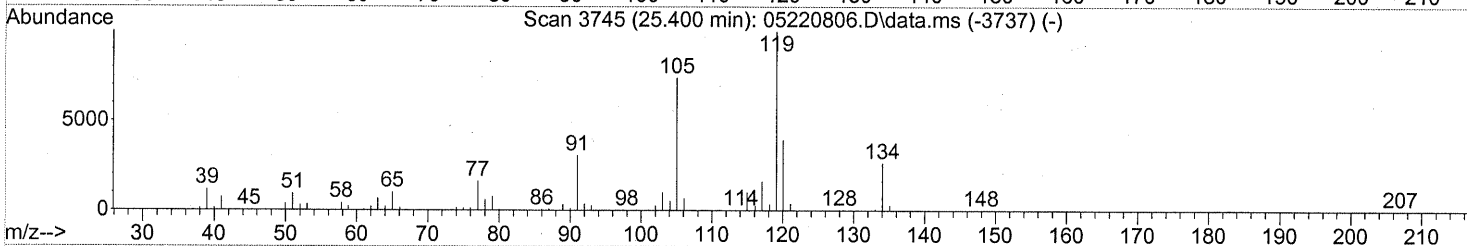
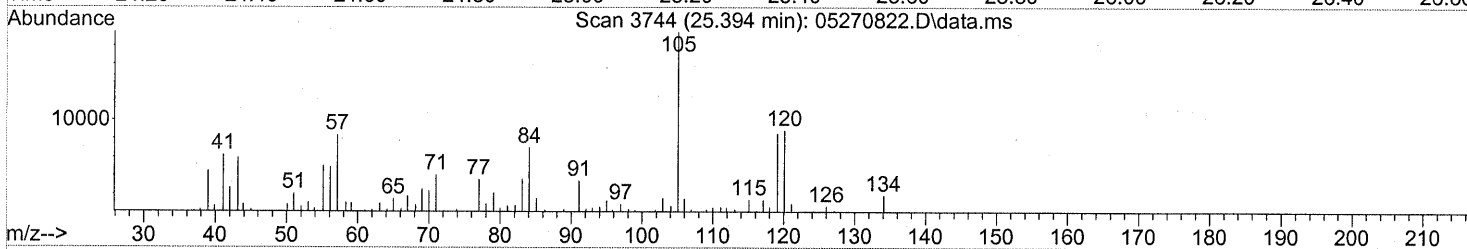
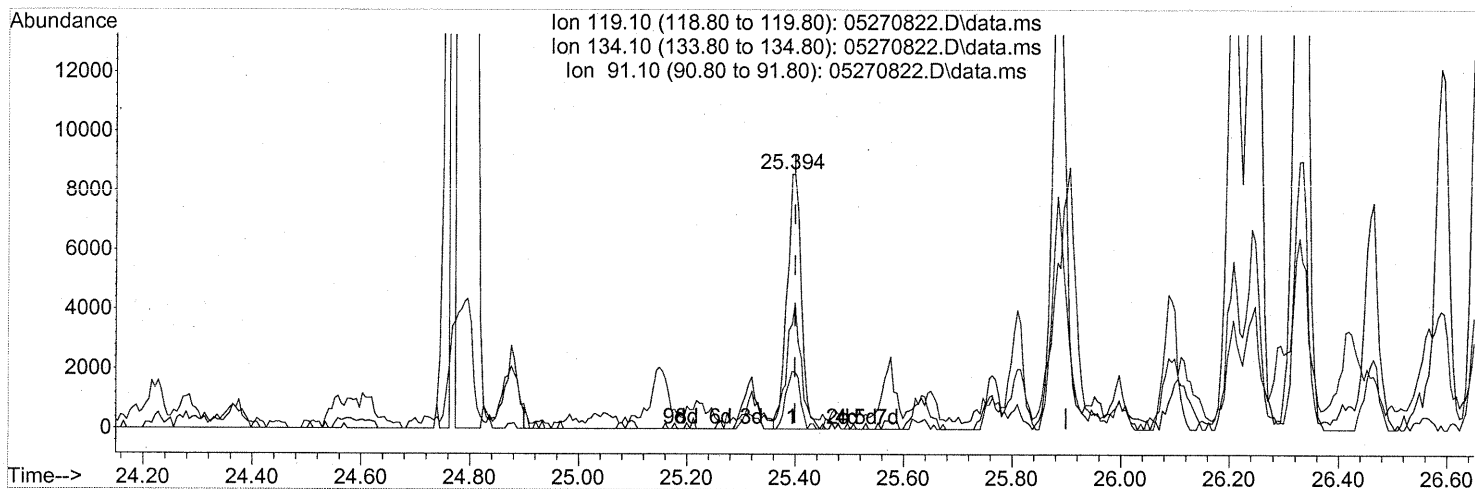
response 42925

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 63.15 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270822.D\data.ms

(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.11ng

response 15707

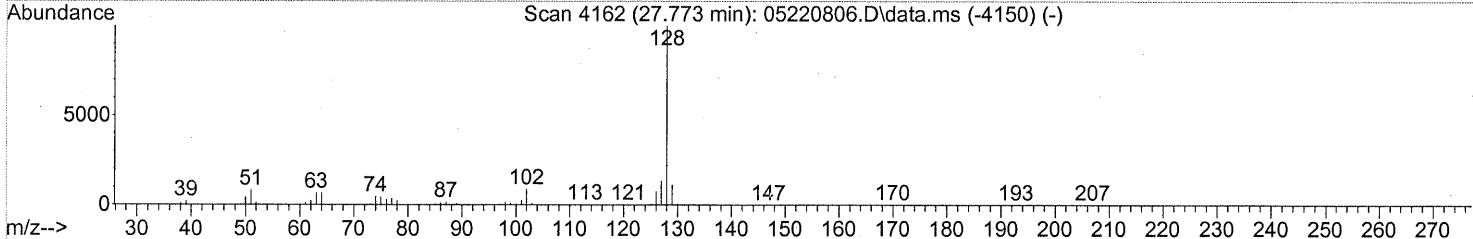
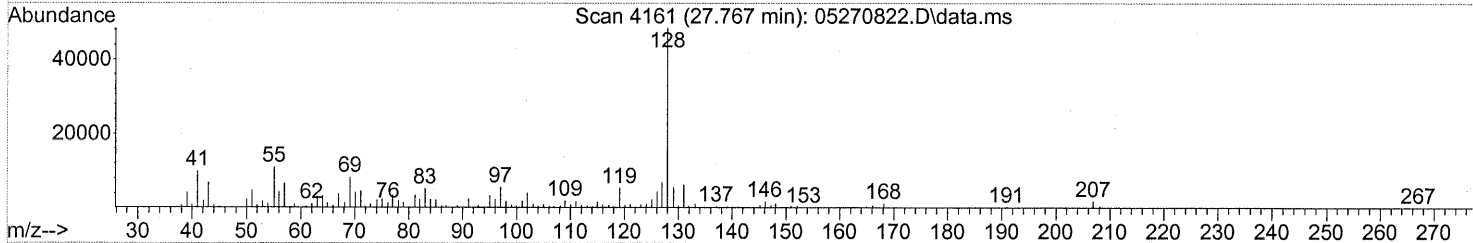
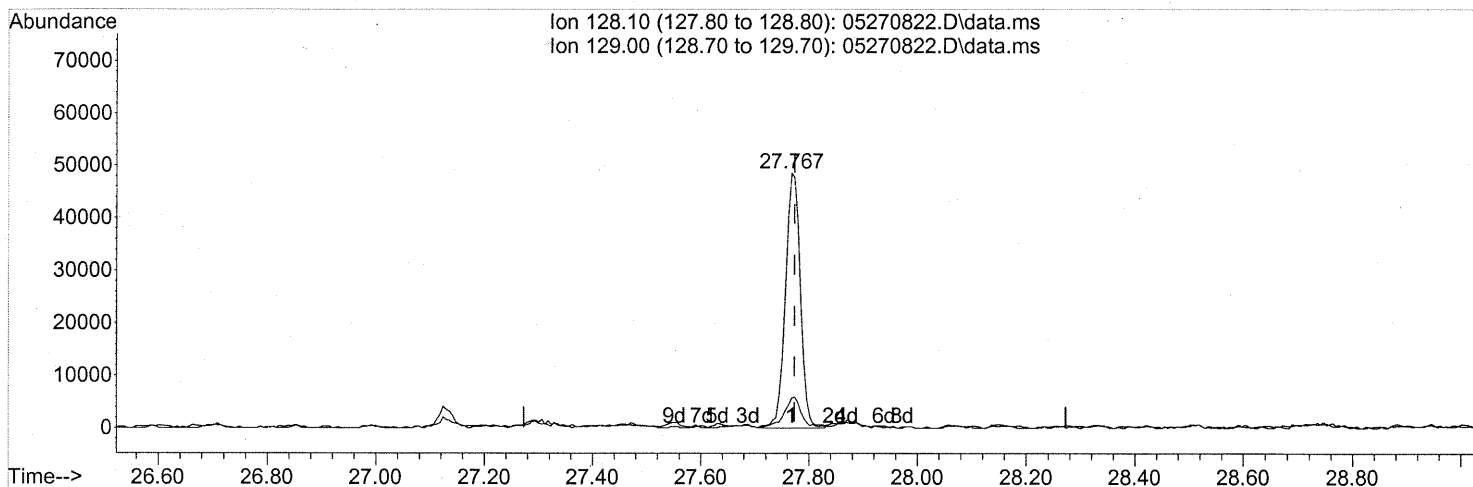
| Ion | Exp% | Act% |
|--------|-------|-------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 22.84 |
| 91.10 | 27.10 | 45.22 |
| 0.00 | 0.00 | 0.00 |

1171

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.767min (-0.006) 0.52ng
 response 93136

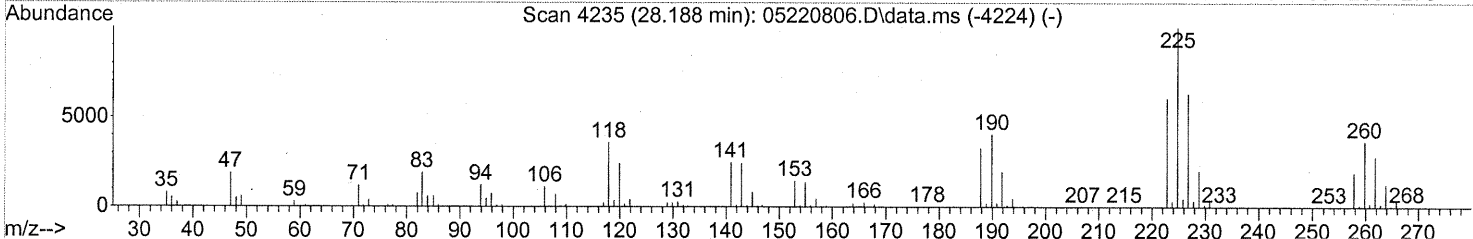
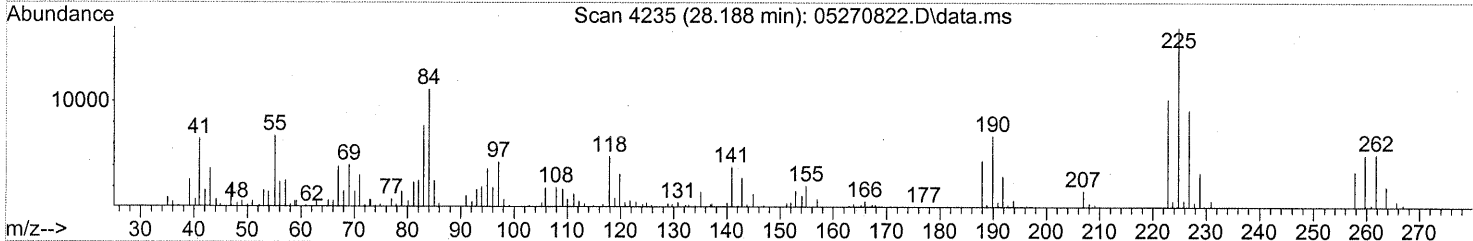
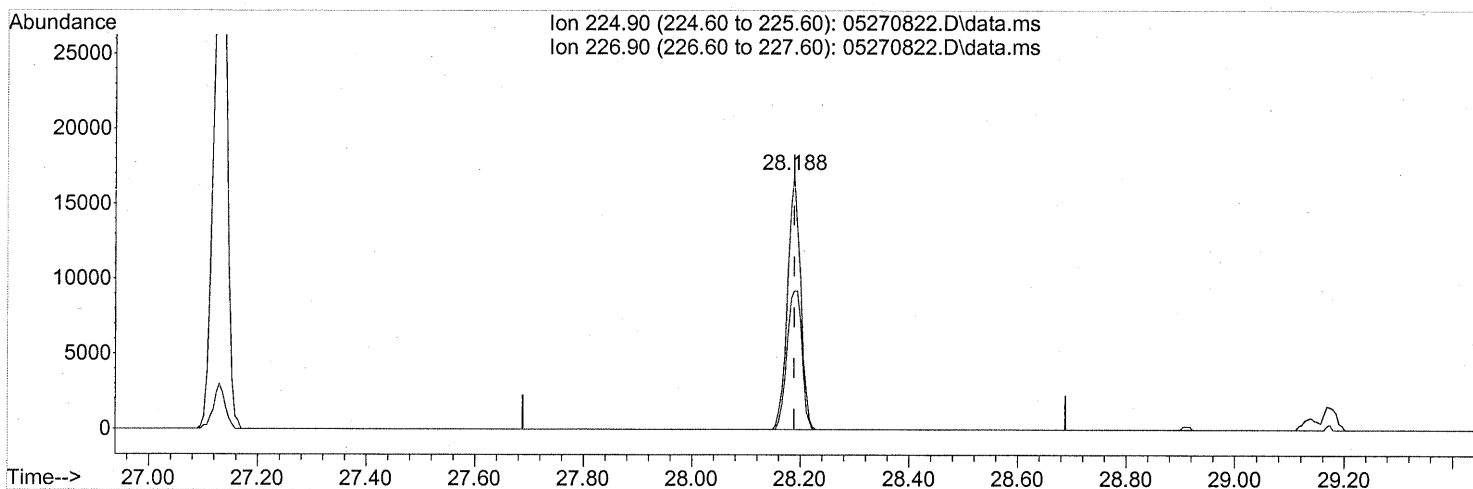
| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 14.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1172

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:13:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

28.188min (-0.000) 0.71ng

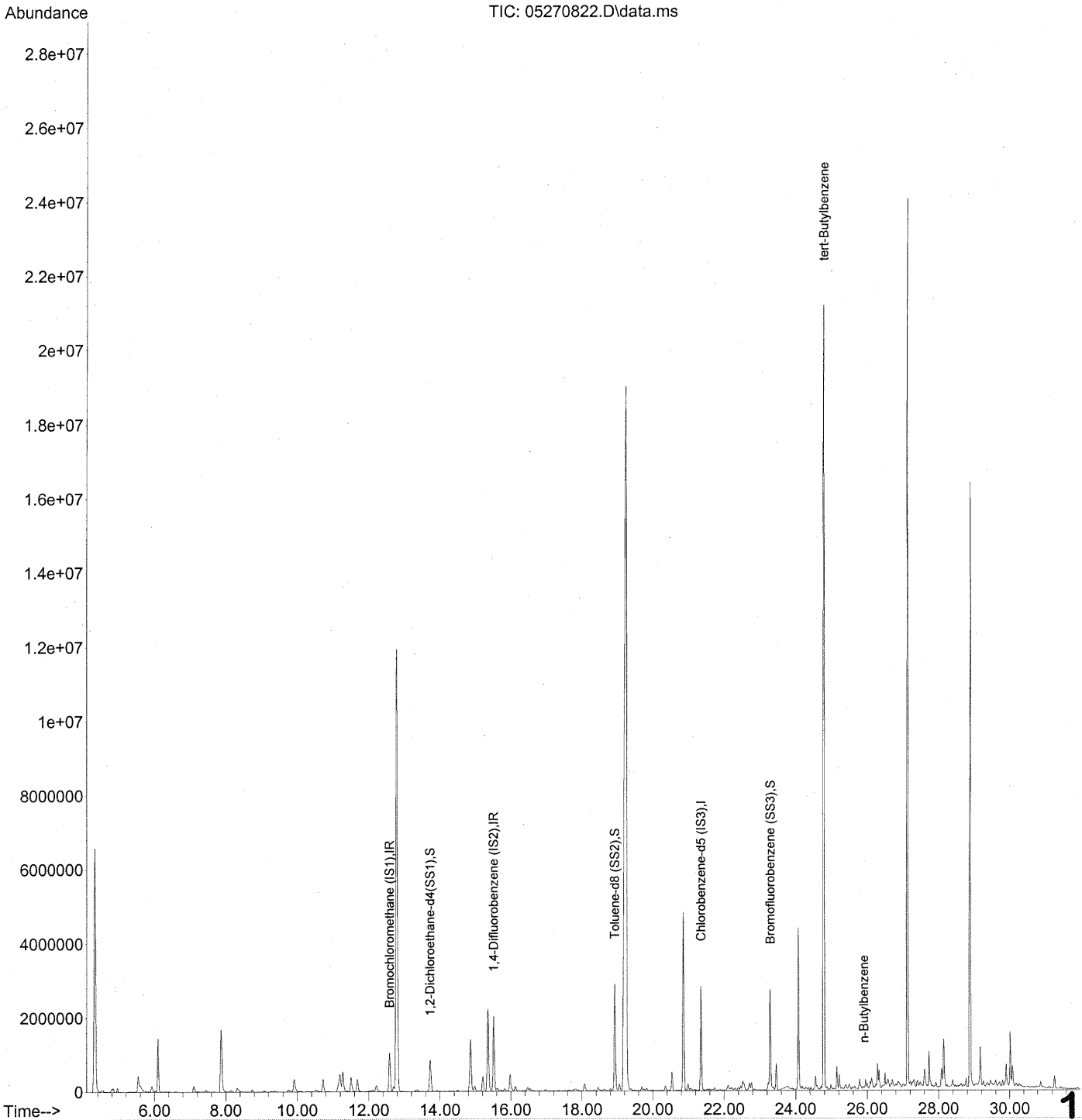
response 28273

| Ion | Exp% | Act% |
|--------|-------|-------|
| 224.90 | 100 | 100 |
| 226.90 | 62.80 | 62.32 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1173

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 12:32 am
Operator : WA
Sample : P0801483-025 (1000ml)
Misc : ENSR SG11B-05 (-2.3, 3.5)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 13:13:05 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



1174

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 12:32 am
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 13:13:05 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

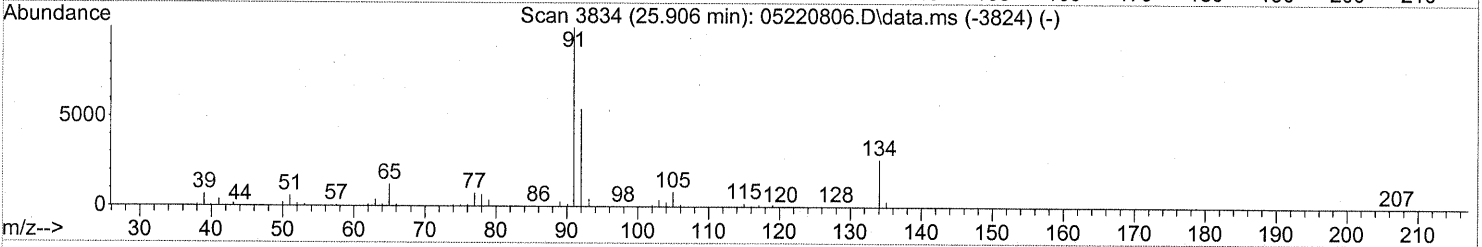
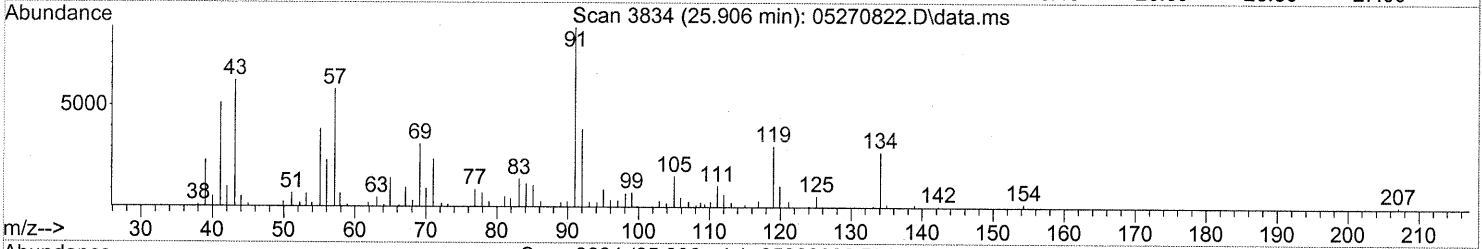
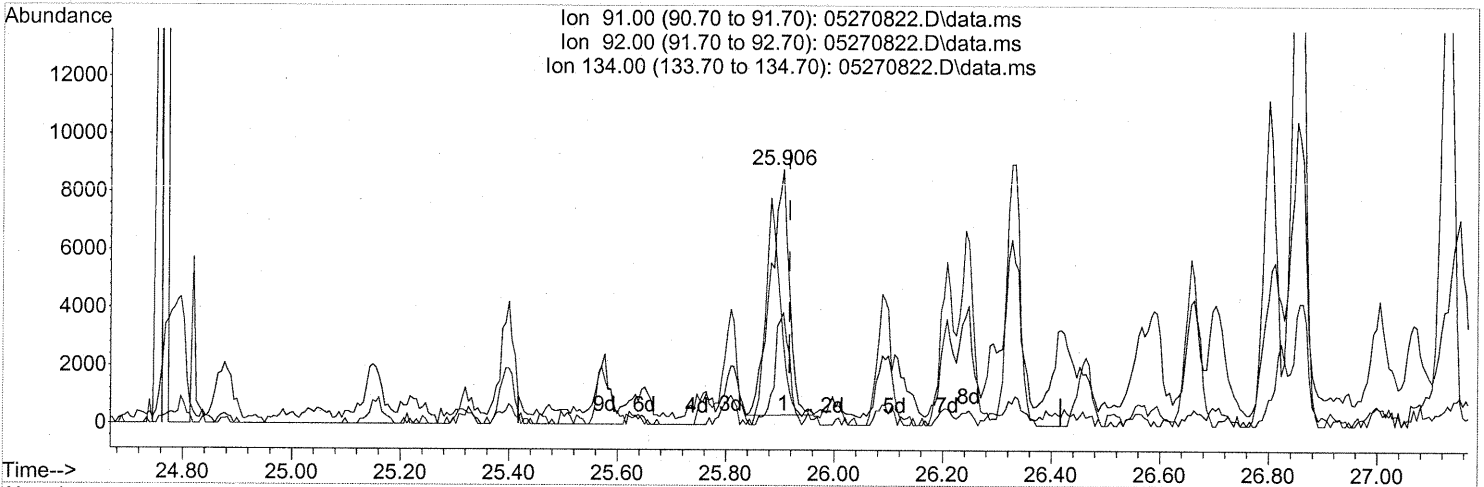
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------------|------|----------|---------------------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 572443 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2406322 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1114220 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 875923 | 22.083 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 88.32% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2453118 | 24.515 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 98.04% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 1049285 | 25.786 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 103.16% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.79 | 119 | 476347 | 3.641 ng | NR | 92 |
| 8) n-Butylbenzene | <u>25.91</u> | 91 | 20298 | <u>0.140</u> ng | # | 64 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270822.D
 Acq On : 28 May 2008 00:32
 Operator : WA
 Sample : P0801483-025 (1000ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 13:13:05 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



(8) n-Butylbenzene
 25.906min (-0.011) 0.14ng
 response 20298

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 36.24# |
| 134.00 | 28.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280815.D
 Acq On : 28 May 2008 20:42
 Operator : WA
 Sample : P0801483-025 Dil (100ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 04:15:56 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 295607 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1259270 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 588130 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|-------|-----|---------|------------|----|--------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 479193 | 23.395 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | | 93.60% |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1310221 | 24.805 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | | 99.24% |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 533942 | 24.859 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | | 99.44% |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------|-------|--------|
| 2) Propene | 4.82 | 42 | 3385 | 0.145 | ng | # 81 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 6161 | 0.143 | ng | 95 |
| 4) Chloromethane | 5.30 | 50 | 588 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 6.02 | 54 | 278 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.10 | 45 | 13120 | 0.844 | ng | 96 |
| 11) Acetonitrile | 7.44 | 41 | 4863 | 0.108 | ng | # 58 |
| 12) Acrolein | 7.67 | 56 | 578 | 0.052 | ng | # 73 |
| 13) Acetone | 7.87 | 58 | 55274 | 3.474 | ng | # 71 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 2722 | 0.074 | ng | 92 |
| 15) Isopropanol | 8.32 | 45 | 9097 | 0.179 | ng | 91 |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.27 | 59 | 3730 | 0.086 | ng | # 81 |
| 19) Methylene Chloride | 9.37 | 84 | 1182 | 0.066 | ng | 94 |
| 20) Allyl Chloride | 9.37 | 41 | 165 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 82 | N.D. | | |
| 22) Carbon Disulfide | 9.77 | 76 | 6475 | 0.096 | ng | 85 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.21 | 73 | 26190 | 0.509 | ng | 87 |
| 26) Vinyl Acetate | 11.31 | 86 | 1178 | 0.401 | ng | # 17 |
| 27) 2-Butanone | 11.68 | 72 | 7656 | 0.659 | ng | 100 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 76334 | 5.364 | ng | # 1 |
| 30) Ethyl Acetate | 12.70 | 61 | 887 | 0.141 | ng | # 61 |
| 31) n-Hexane | 12.70 | 57 | 1054 | N.D. | | |

1178

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280815.D
 Acq On : 28 May 2008 20:42
 Operator : WA
 Sample : P0801483-025 Dil (100ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 04:15:56 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.78 | 83 | 738893 | 27.411 | ng | 100 |
| 34) Tetrahydrofuran | 13.38 | 72 | 182 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.73 | 62 | 57 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.84 | 56 | 60054 | 3.470 | ng | 88 |
| 41) Benzene | 14.99 | 78 | 8920 | 0.135 | ng | 99 |
| 42) Carbon Tetrachloride | 15.20 | 117 | 17645 | 0.695 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 487 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 16.45 | 83 | 115 | N.D. | | |
| 47) Trichloroethene | 16.54 | 130 | 1568 | 0.078 | ng | 95 |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 776 | N.D. | | |
| 50) Methyl Methacrylate | 16.97 | 100 | 65 | N.D. | | |
| 51) n-Heptane | 16.97 | 71 | 174 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 17.63 | 58 | 195 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 114100 | 7.003 | ng | # 7 |
| 58) Toluene | 19.06 | 91 | 8813 | 0.123 | ng | 96 |
| 59) 2-Hexanone | 19.38 | 43 | 1862 | N.D. | | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.20 | 43 | 709 | N.D. | | |
| 63) n-Octane | 20.35 | 57 | 56 | N.D. | | |
| 64) Tetrachloroethene | 20.54 | 166 | 10087 | 0.475 | ng | 99 |
| 65) Chlorobenzene | 0.00 | 112 | 0 | N.D. | | |
| 66) Ethylbenzene | 21.89 | 91 | 1071 | N.D. | | |
| 67) m- & p-Xylene | 22.10 | 91 | 2749 | N.D. | | |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.58 | 104 | 839 | N.D. | | |
| 70) o-Xylene | 22.72 | 91 | 1304 | N.D. | | |
| 71) n-Nonane | 22.98 | 43 | 648 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.41 | 83 | 229 | N.D. | | |
| 74) Cumene | 23.46 | 105 | 317 | N.D. | | |
| 75) alpha-Pinene | 23.96 | 93 | 126 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 316 | N.D. | | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 907 | N.D. | | |
| 78) 4-Ethyltoluene | 24.29 | 105 | 597 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 206 | N.D. | | |

1179

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280815.D
 Acq On : 28 May 2008 20:42
 Operator : WA
 Sample : P0801483-025 Dil (100ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 04:15:56 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

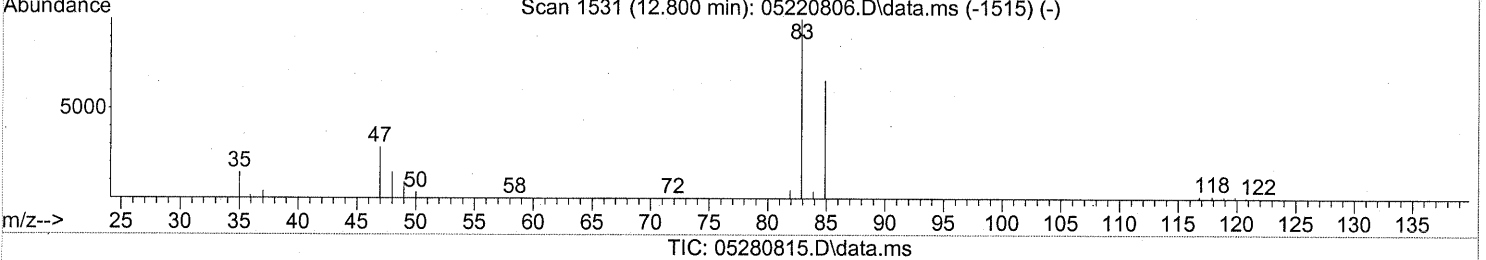
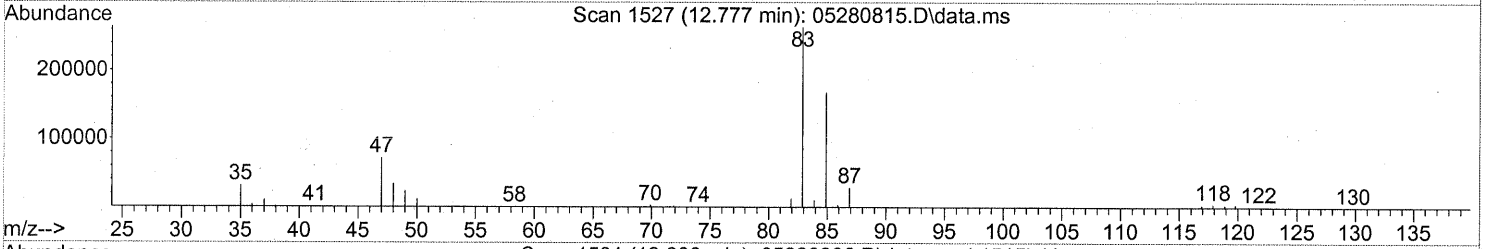
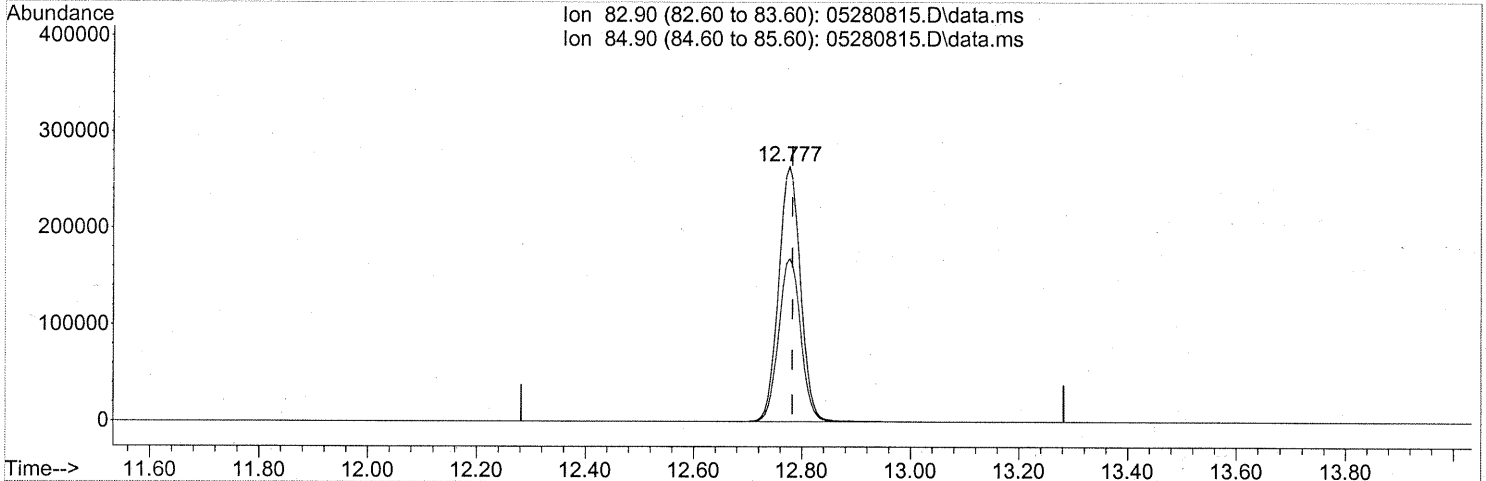
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.77 | 118 | 18582 | 0.484 | ng | # 6 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 586 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 1553 | N.D. | | |
| 83) n-Decane | 24.98 | 57 | 3457 | 0.087 | ng | 98 |
| 84) Benzyl Chloride | 25.04 | 91 | 66 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 744 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 2190 | 0.050 | ng | 97 |
| 87) sec-Butylbenzene | 25.41 | 105 | 2033 | N.D. | | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 576 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 2033 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.15 | 146 | 2190 | 0.051 | ng | 98 |
| 91) d-Limonene | 25.57 | 68 | 632 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 8104 | 0.195 | ng | # 69 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 113 | N.D. | | |
| 95) Naphthalene | 27.77 | 128 | 5222 | 0.055 | ng | 97 |
| 96) n-Dodecane | 27.73 | 57 | 15454 | 0.374 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 1256 | 0.060 | ng | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280815.D
 Acq On : 28 May 2008 20:42
 Operator : WA
 Sample : P0801483-025 Dil (100ml)
 Misc : ENSR SG11B-05 (-2.3, 3.5)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 29 04:15:56 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 27.41ng
 response 738893

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 64.39 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG10B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-026

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00773

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.55

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.78 | 0.078 | 0.42 | 0.16 | 0.016 | |
| 74-87-3 | Chloromethane | ND | 0.16 | 0.078 | ND | 0.075 | 0.038 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 0.10 | 0.78 | 0.078 | 0.014 | 0.11 | 0.011 | J |
| 75-01-4 | Vinyl Chloride | ND | 0.16 | 0.078 | ND | 0.061 | 0.030 | |
| 74-83-9 | Bromomethane | ND | 0.16 | 0.078 | ND | 0.040 | 0.020 | |
| 75-00-3 | Chloroethane | ND | 0.16 | 0.078 | ND | 0.059 | 0.029 | |
| 64-17-5 | Ethanol | 30 | 7.8 | 0.078 | 16 | 4.1 | 0.041 | B |
| 67-64-1 | Acetone | 24 | 7.8 | 0.11 | 10 | 3.3 | 0.048 | B |
| 75-69-4 | Trichlorofluoromethane | 1.2 | 0.16 | 0.078 | 0.21 | 0.028 | 0.014 | |
| 107-13-1 | Acrylonitrile | ND | 0.78 | 0.11 | ND | 0.36 | 0.050 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.16 | 0.078 | ND | 0.039 | 0.020 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.49 | 0.78 | 0.11 | 0.16 | 0.26 | 0.038 | J |
| 75-09-2 | Methylene Chloride | 0.23 | 0.78 | 0.078 | 0.067 | 0.22 | 0.022 | J |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.16 | 0.078 | ND | 0.050 | 0.025 | |
| 76-13-1 | Trichlorotrifluoroethane | 0.49 | 0.16 | 0.087 | 0.064 | 0.020 | 0.011 | |
| 75-15-0 | Carbon Disulfide | 14 | 0.78 | 0.19 | 4.4 | 0.25 | 0.060 | B |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.16 | 0.078 | ND | 0.039 | 0.020 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.16 | 0.078 | ND | 0.038 | 0.019 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 2.9 | 0.16 | 0.078 | 0.79 | 0.043 | 0.022 | |
| 108-05-4 | Vinyl Acetate | 2.6 | 7.8 | 0.25 | 0.73 | 2.2 | 0.070 | J, B |
| 78-93-3 | 2-Butanone (MEK) | 7.4 | 0.78 | 0.078 | 2.5 | 0.26 | 0.026 | B |
| 156-59-2 | cis-1,2-Dichloroethene | 0.15 | 0.16 | 0.078 | 0.037 | 0.039 | 0.020 | J |
| 108-20-3 | Diisopropyl Ether | ND | 0.78 | 0.091 | ND | 0.19 | 0.022 | |
| 67-66-3 | Chloroform | 440 | 0.16 | 0.091 | 90 | 0.032 | 0.019 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG10B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-026

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00773

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.55

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|-----------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.78 | 0.079 | ND | 0.19 | 0.019 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.16 | 0.078 | ND | 0.038 | 0.019 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.16 | 0.078 | ND | 0.028 | 0.014 | |
| 71-43-2 | Benzene | 1.5 | 0.16 | 0.078 | 0.48 | 0.049 | 0.024 | |
| 56-23-5 | Carbon Tetrachloride | 5.9 | 0.16 | 0.078 | 0.94 | 0.025 | 0.012 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.78 | 0.078 | ND | 0.19 | 0.019 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.16 | 0.078 | ND | 0.034 | 0.017 | |
| 75-27-4 | Bromodichloromethane | 0.24 | 0.16 | 0.078 | 0.035 | 0.023 | 0.012 | |
| 79-01-6 | Trichloroethene | 0.96 | 0.16 | 0.078 | 0.18 | 0.029 | 0.014 | |
| 123-91-1 | 1,4-Dioxane | 0.16 | 0.78 | 0.095 | 0.045 | 0.22 | 0.026 | J |
| 80-62-6 | Methyl Methacrylate | ND | 0.78 | 0.12 | ND | 0.19 | 0.028 | |
| 142-82-5 | n-Heptane | 0.25 | 0.78 | 0.099 | 0.061 | 0.19 | 0.024 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.78 | 0.081 | ND | 0.17 | 0.018 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.16 | 0.78 | 0.087 | 0.039 | 0.19 | 0.021 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.78 | 0.098 | ND | 0.17 | 0.022 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.16 | 0.078 | ND | 0.028 | 0.014 | |
| 108-88-3 | Toluene | 2.0 | 0.78 | 0.078 | 0.54 | 0.21 | 0.021 | |
| 591-78-6 | 2-Hexanone | 0.43 | 0.78 | 0.12 | 0.11 | 0.19 | 0.029 | J |
| 124-48-1 | Dibromochloromethane | ND | 0.16 | 0.11 | ND | 0.018 | 0.012 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.16 | 0.084 | ND | 0.020 | 0.011 | |
| 111-65-9 | n-Octane | 0.23 | 0.78 | 0.078 | 0.049 | 0.17 | 0.017 | J |
| 127-18-4 | Tetrachloroethene | 5.3 | 0.16 | 0.078 | 0.79 | 0.023 | 0.011 | |
| 108-90-7 | Chlorobenzene | 0.17 | 0.16 | 0.079 | 0.037 | 0.034 | 0.017 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG10B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-026

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00773

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.8

Canister Dilution Factor: 1.55

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 0.33 | 0.78 | 0.096 | 0.077 | 0.18 | 0.022 | J |
| 179601-23-1 | m,p-Xylenes | 1.1 | 0.78 | 0.20 | 0.26 | 0.18 | 0.046 | |
| 75-25-2 | Bromoform | ND | 0.78 | 0.12 | ND | 0.075 | 0.011 | |
| 100-42-5 | Styrene | 0.60 | 0.78 | 0.12 | 0.14 | 0.18 | 0.028 | J |
| 95-47-6 | o-Xylene | 0.42 | 0.78 | 0.098 | 0.096 | 0.18 | 0.022 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.16 | 0.099 | ND | 0.023 | 0.014 | |
| 98-82-8 | Cumene | ND | 0.78 | 0.087 | ND | 0.16 | 0.018 | |
| 103-65-1 | n-Propylbenzene | 0.12 | 0.78 | 0.081 | 0.024 | 0.16 | 0.016 | J |
| 622-96-8 | 4-Ethyltoluene | 0.17 | 0.78 | 0.088 | 0.034 | 0.16 | 0.018 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.15 | 0.78 | 0.093 | 0.030 | 0.16 | 0.019 | J |
| 98-83-9 | alpha-Methylstyrene | ND | 0.78 | 0.11 | ND | 0.16 | 0.023 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.48 | 0.78 | 0.11 | 0.098 | 0.16 | 0.022 | J |
| 100-44-7 | Benzyl Chloride | ND | 0.16 | 0.13 | ND | 0.030 | 0.026 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.098 | 0.16 | 0.096 | 0.016 | 0.026 | 0.016 | J |
| 106-46-7 | 1,4-Dichlorobenzene | 0.87 | 0.16 | 0.087 | 0.15 | 0.026 | 0.014 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.78 | 0.090 | ND | 0.14 | 0.016 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.59 | 0.78 | 0.10 | 0.11 | 0.14 | 0.018 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.16 | 0.10 | ND | 0.026 | 0.017 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.78 | 0.12 | ND | 0.080 | 0.012 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.16 | 0.12 | ND | 0.021 | 0.016 | |
| 91-20-3 | Naphthalene | 1.3 | 0.31 | 0.11 | 0.24 | 0.059 | 0.022 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.16 | 0.14 | ND | 0.015 | 0.013 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.31 | 0.078 | ND | 0.056 | 0.014 | |
| 104-51-8 | n-Butylbenzene | 0.29 | 0.31 | 0.078 | 0.052 | 0.056 | 0.014 | J, M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

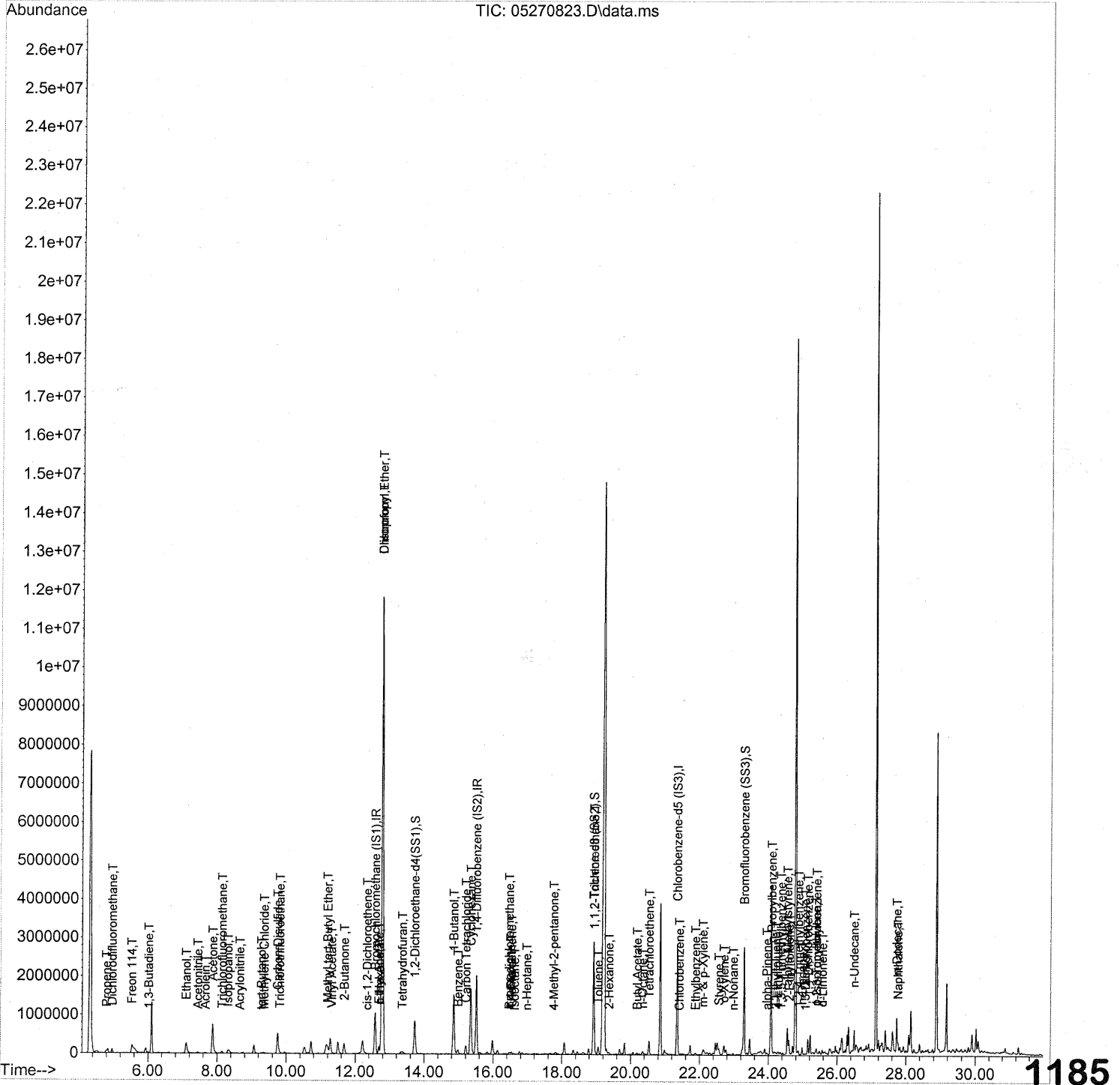
Verified By: CA

Date: 6/4/08

1184

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 12:29:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 12:29:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 570758 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2408496 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1112436 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 881101 | 22.279 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 89.12% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2479858 | 24.821 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.28% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 1048278 | 25.802 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 103.20% | ✓ |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|---------|--------|----|--------|
| 2) Propene | 4.80 | 42 | 40894 | 0.907 | ng | # 71 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 111188 | 1.338 | ng | 100 |
| 4) Chloromethane | 5.30 | 50 | 791 | N.D. | ✓ | |
| 5) Freon 114 | 5.53 | 135 | 2668 | 0.065 | ng | 91 |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 6.02 | 54 | 11585 | 0.289 | ng | # 75 |
| 8) Bromomethane | 6.49 | 94 | 496 | N.D. | ✓ | |
| 9) Chloroethane | 6.82 | 64 | 757 | N.D. | ✓ | |
| 10) Ethanol | 7.11 | 45 | 579383m | 19.307 | ng | |
| 11) Acetonitrile | 7.44 | 41 | 38760 | 0.447 | ng | 98 |
| 12) Acrolein | 7.66 | 56 | 21646 | 1.010 | ng | 95 |
| 13) Acetone | 7.87 | 58 | 472698 | 15.385 | ng | 93 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 53621 | 0.752 | ng | 94 |
| 15) Isopropanol | 8.32 | 45 | 237635 | 2.425 | ng | 95 |
| 16) Acrylonitrile | 8.66 | 53 | 2622 | 0.056 | ng | 91 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 209 | N.D. | ✓ | |
| 18) tert-Butanol | 9.29 | 59 | 26088m | 0.313 | ng | |
| 19) Methylene Chloride | 9.36 | 84 | 5184 | 0.151 | ng | # 72 |
| 20) Allyl Chloride | 9.53 | 41 | 477 | N.D. | ✓ | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 10171 | 0.314 | ng | 94 |
| 22) Carbon Disulfide | 9.76 | 76 | 1150804 | 8.832 | ng | 99 |
| 23) trans-1,2-Dichloroethene | 10.81 | 61 | 79 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 2199 | N.D. | ✓ | |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 183145 | 1.843 | ng | 85 |
| 26) Vinyl Acetate | 11.32 | 86 | 9395 | 1.655 | ng | # 8 |
| 27) 2-Butanone | 11.68 | 72 | 106858 | 4.765 | ng | # 85 |
| 28) cis-1,2-Dichloroethene | 12.34 | 61 | 4597 | 0.095 | ng | 75 |
| 29) Diisopropyl Ether | 12.78 | 87 | 1507395 | 54.857 | ng | NR # 1 |
| 30) Ethyl Acetate | 12.70 | 61 | 35380 | 2.923 | ng | 89 |
| 31) n-Hexane | 12.70 | 57 | 8406 | 0.138 | ng | # 1186 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 12:29:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|------------|----------------|-----------|
| 32) Chloroform | 12.78 | 83 | 13534689 | 260.052 ng | <i>all dil</i> | 98 |
| 34) Tetrahydrofuran | 13.37 | 72 | 8281 | 0.386 ng | # | 5 |
| 35) Ethyl tert-Butyl Ether | 13.49 | 87 | 57 | N.D. | ✓ | |
| 36) 1,2-Dichloroethane | 13.88 | 62 | 198 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1750 | N.D. | ✓ | |
| 39) Isopropyl Acetate | 14.84 | 61 | 80 | N.D. | | |
| 40) 1-Butanol | 14.86 | 56 | 1333090 | 40.268 ng | | 85 |
| 41) Benzene | 14.99 | 78 | 123940 | 0.983 ng | | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 184434 | 3.798 ng | | 99 |
| 43) Cyclohexane | 15.36 | 84 | 87476 | 1.783 ng | # | 1 |
| 44) tert-Amyl Methyl Ether | 15.83 | 73 | 192 | N.D. | ✓ | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 1671 | N.D. | ✓ | |
| 46) Bromodichloromethane | 16.46 | 83 | 6483m | 0.152 ng | | |
| 47) Trichloroethene | 16.53 | 130 | 24042 | 0.621 ng | | 100 |
| 48) 1,4-Dioxane | 16.50 | 88 | 2496 | 0.105 ng | | 91 |
| 49) Isooctane | 16.62 | 57 | 11625 | 0.080 ng | # | 33 |
| 50) Methyl Methacrylate | 16.79 | 100 | 130 | N.D. | ✓ | |
| 51) n-Heptane | 16.98 | 71 | 5368 | 0.160 ng | # | 80 |
| 52) cis-1,3-Dichloropropene | 17.81 | 75 | 411 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 3426 | 0.102 ng | # | 59 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 273 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 216458 | 6.946 ng | <i>NR#</i> | 9 |
| 58) Toluene | 19.06 | 91 | 178871 | 1.317 ng | | 97 |
| 59) 2-Hexanone | 19.37 | 43 | 26131 | 0.279 ng | | 74 |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | ✓ | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.19 | 43 | 37847 | 0.398 ng | | 85 |
| 63) n-Octane | 20.35 | 57 | 4424 | 0.147 ng | | 98 |
| 64) Tetrachloroethene | 20.54 | 166 | 138125 | 3.437 ng | | 99 |
| 65) Chlorobenzene | 21.42 | 112 | 9968 | 0.109 ng | | 95 |
| 66) Ethylbenzene | 21.88 | 91 | 33575 | 0.216 ng | | 93 |
| 67) m- & p-Xylene | 22.10 | 91 | 76762 | 0.737 ng | | 95 |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | ✓ | |
| 69) Styrene | 22.57 | 104 | 36357 | 0.390 ng | | 95 |
| 70) o-Xylene | 22.71 | 91 | 30224 | 0.269 ng | | 84 |
| 71) n-Nonane | 22.98 | 43 | 20241 | 0.254 ng | # | 80 |
| 72) 1,1,2,2-Tetrachloroethane | 22.72 | 83 | 1453 | N.D. | ✓ | |
| 74) Cumene | 23.46 | 105 | 4090 | N.D. | ✓ | |
| 75) alpha-Pinene | 23.96 | 93 | 19014 | 0.246 ng | | 91 |
| 76) n-Propylbenzene | 24.10 | 91 | 14371 | 0.075 ng | # | 82 |
| 77) 3-Ethyltoluene | 24.22 | 105 | 29607 | 0.186 ng | | 97 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 15871 | 0.107 ng | | 94 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 12594 | 0.094 ng | | 100 |

1187

DA 6/2/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 12:29:54 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

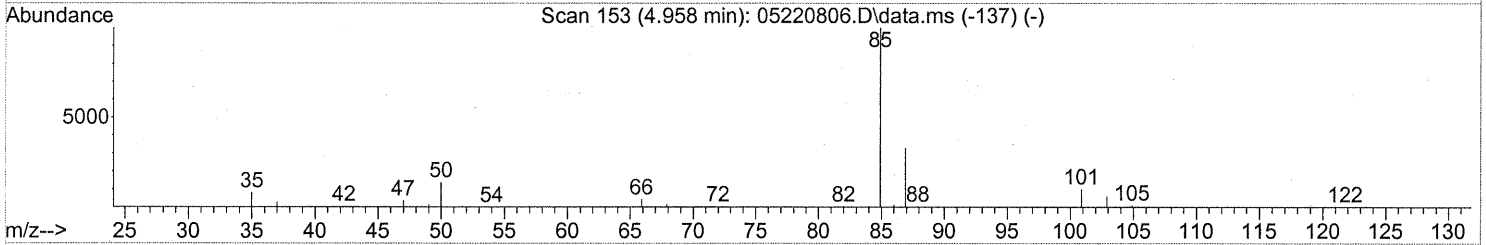
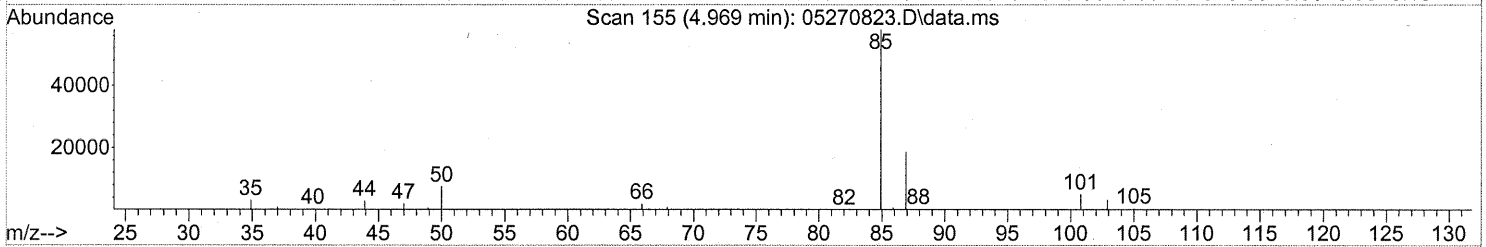
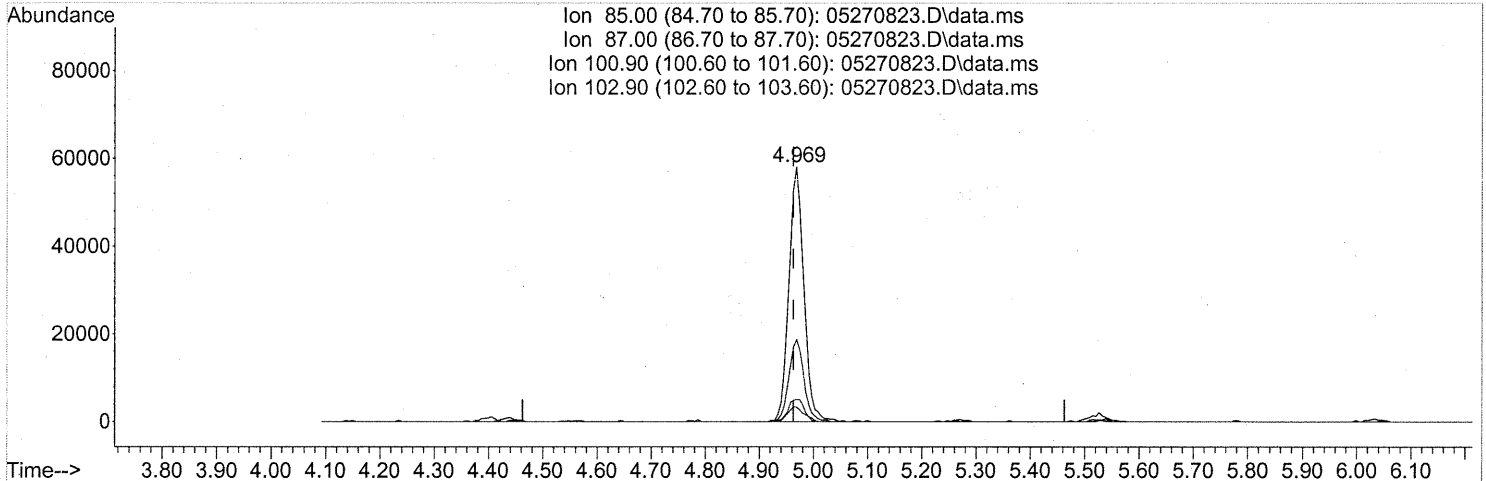
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------------------------|-----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 5734 | 0.079 ng ^{NR} # | 70 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 14852 | 0.092 ng | 97 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 42689 | 0.312 ng | 90 |
| 83) n-Decane | 24.98 | 57 | 72795 | 0.968 ng | 76 |
| 84) Benzyl Chloride | 25.04 | 91 | 2208 | N.D. ✓ | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 5367 | 0.063 ng | 92 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 46695 | 0.564 ng | 97 |
| 87) sec-Butylbenzene | 25.21 | 105 | 3150 | N.D. ✓ | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 54566 | 0.380 ng | 98 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 19006 | 0.142 ng | 81 |
| 90) 1,2-Dichlorobenzene | 25.57 | 146 | 1265 | N.D. ✓ | |
| 91) d-Limonene | 25.58 | 68 | 28999 | 0.533 ng | 78 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.24 | 157 | 357 | N.D. ✓ | |
| 93) n-Undecane | 26.50 | 57 | 198273 | 2.520 ng | 71 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 506 | N.D. ✓ | |
| 95) Naphthalene | 27.77 | 128 | 148227 | 0.822 ng | 98 |
| 96) n-Dodecane | 27.73 | 57 | 291542 | 3.725 ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.18 | 225 | 579 | N.D. ✓ | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.34ng

response 111188

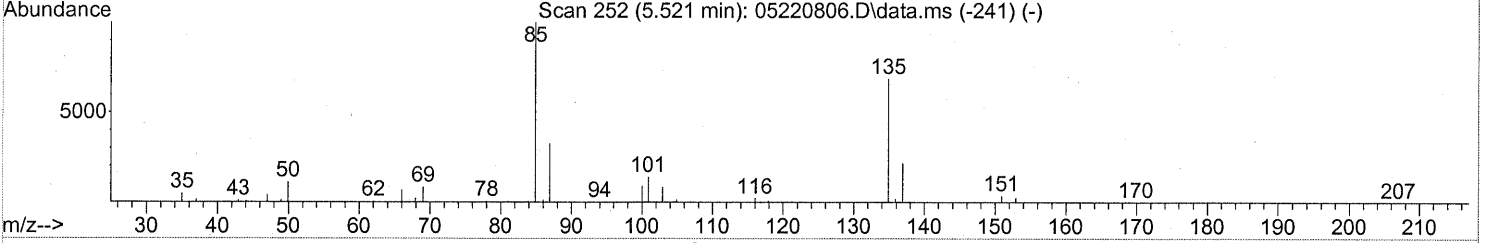
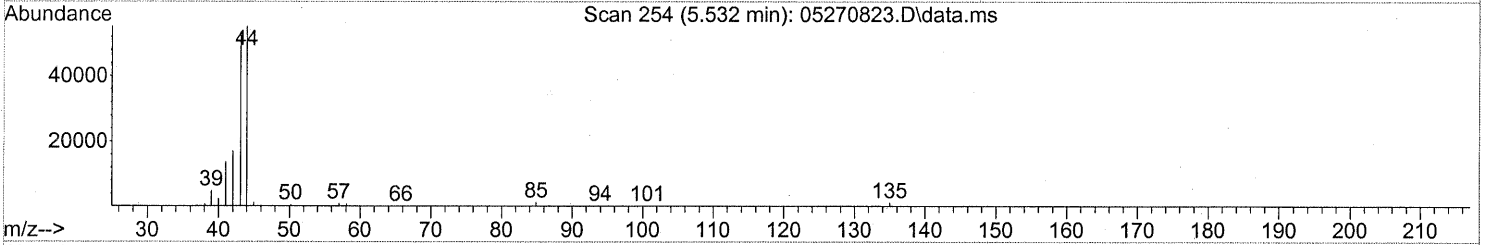
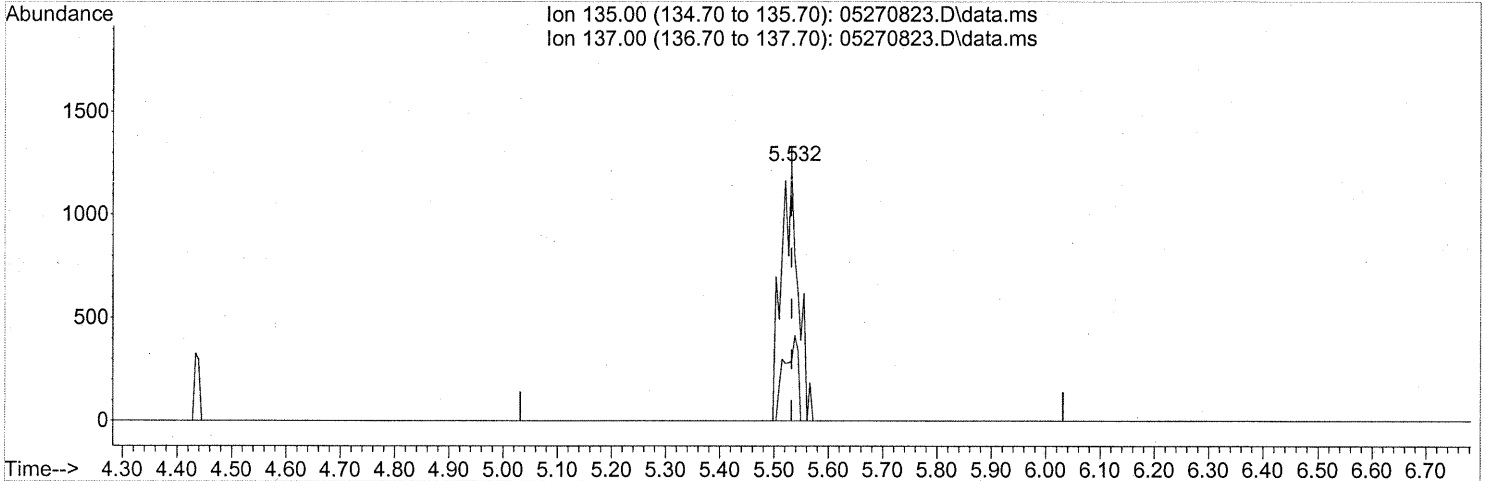
| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 32.38 |
| 100.90 | 9.30 | 9.49 |
| 102.90 | 6.00 | 6.00 |

1189

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(5) Freon 114 (T)

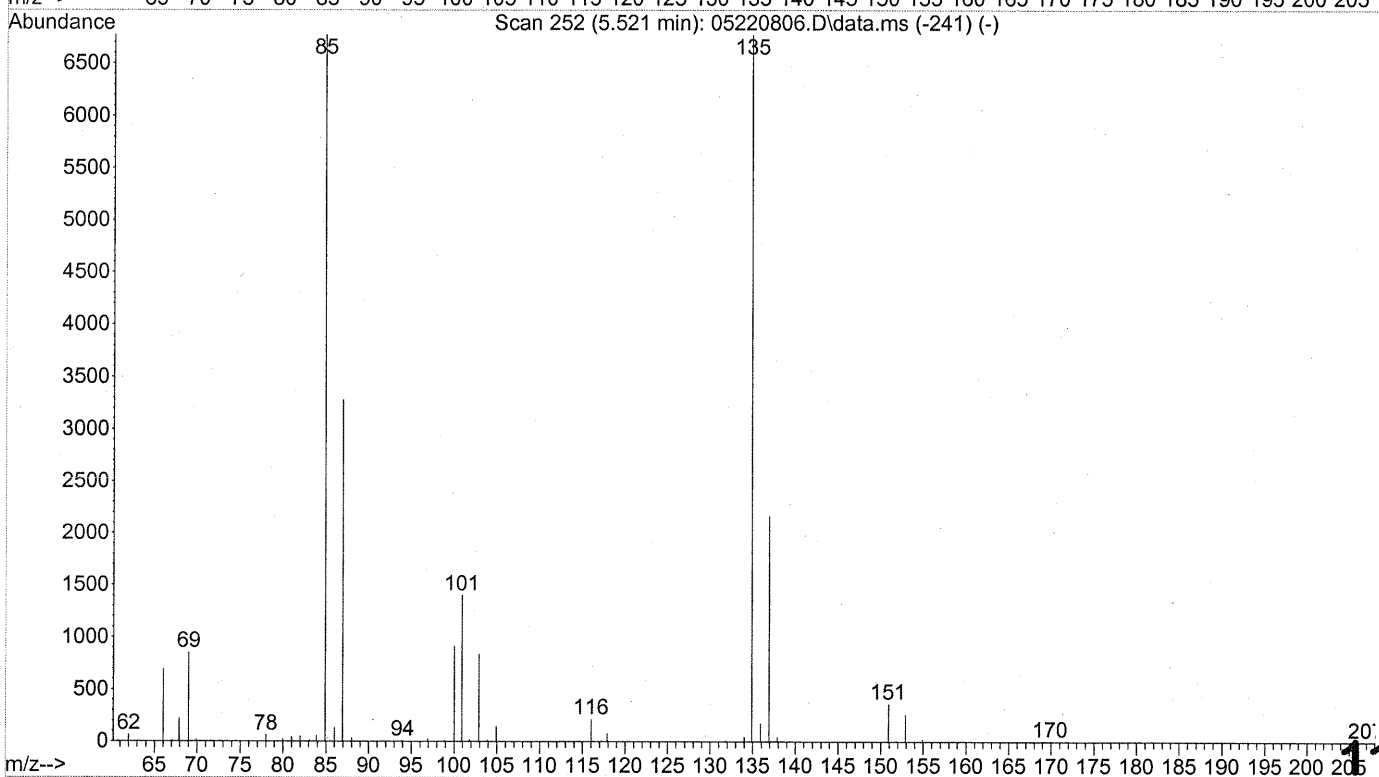
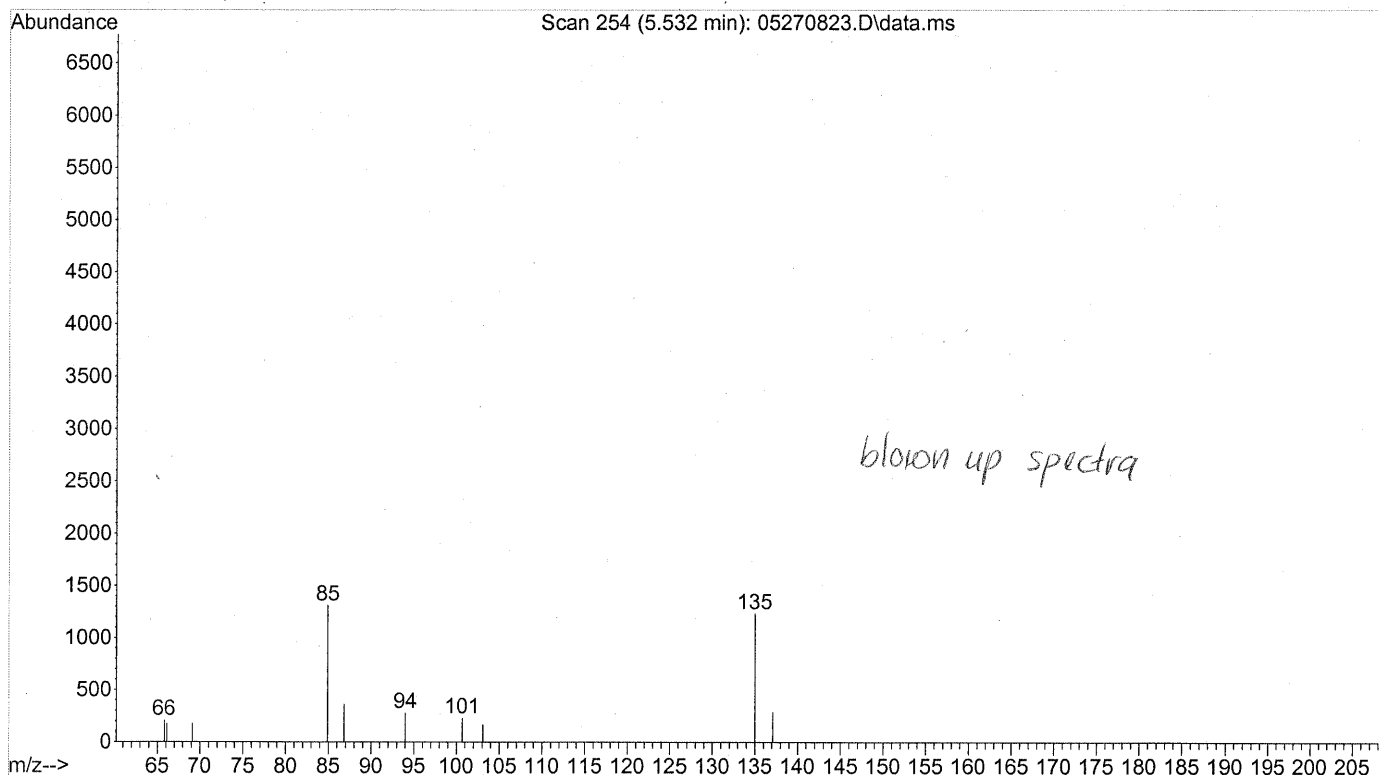
5.532min (-0.000) 0.07ng

response 2668

see blown up spectra

| Ion | Exp% | Act% |
|--------|-------|-------|
| 135.00 | 100 | 100 |
| 137.00 | 31.50 | 26.54 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

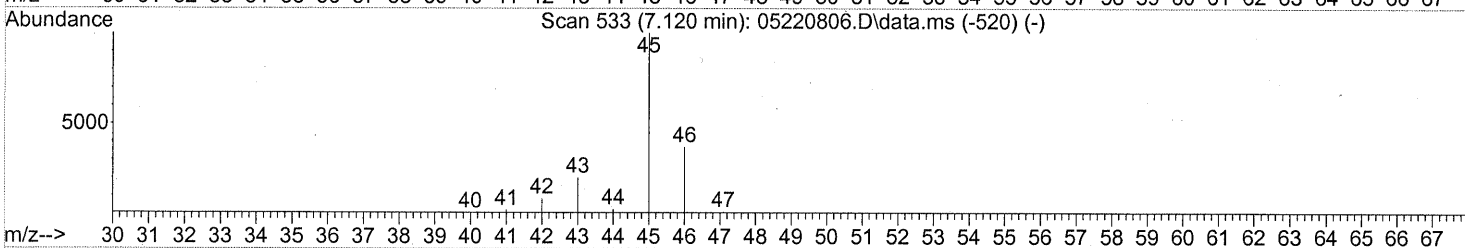
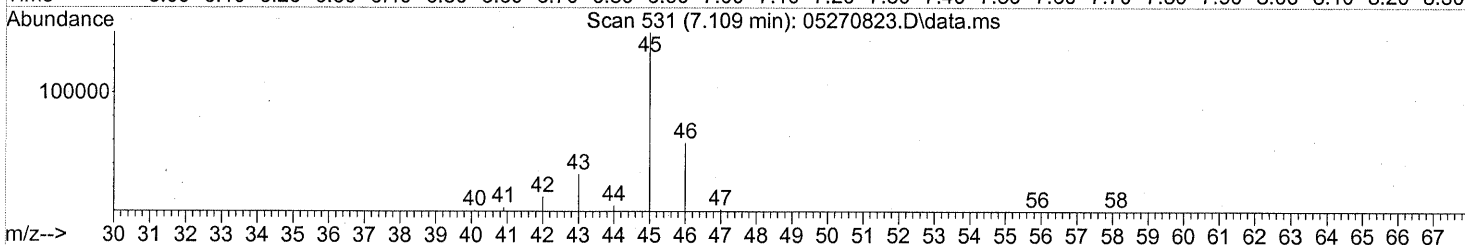
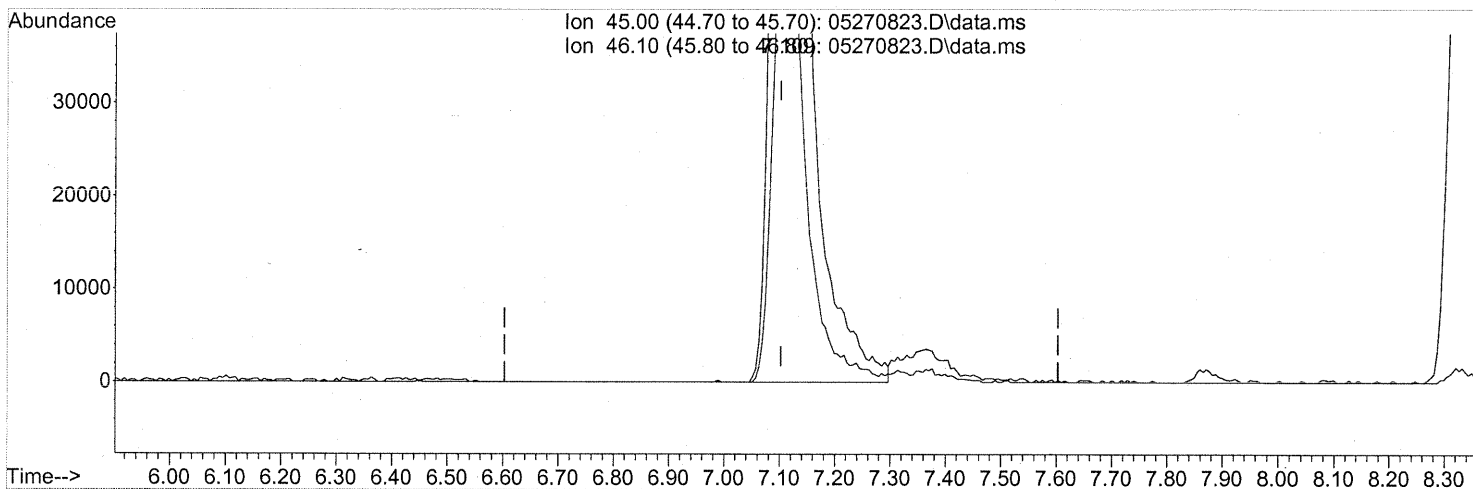
File :J:\MS13\DATA\2008_05\27\05270823.D
Operator : WA
Acquired : 28 May 2008 1:14 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-026 (1000ml)
Misc Info : ENSR SG10B-05 (-2.8, 3.8)
Vial Number: 9



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.109min (+0.006) 18.55ng

response 556675

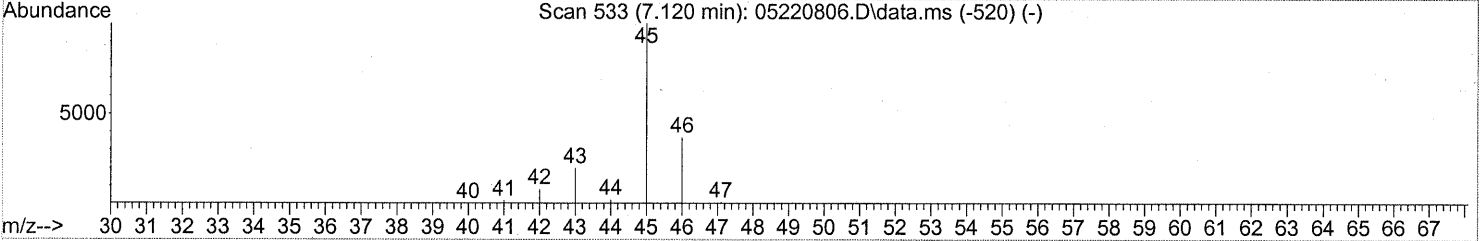
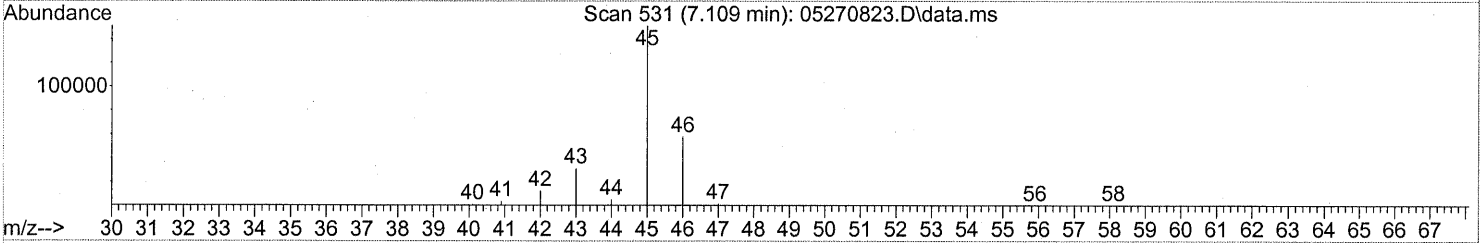
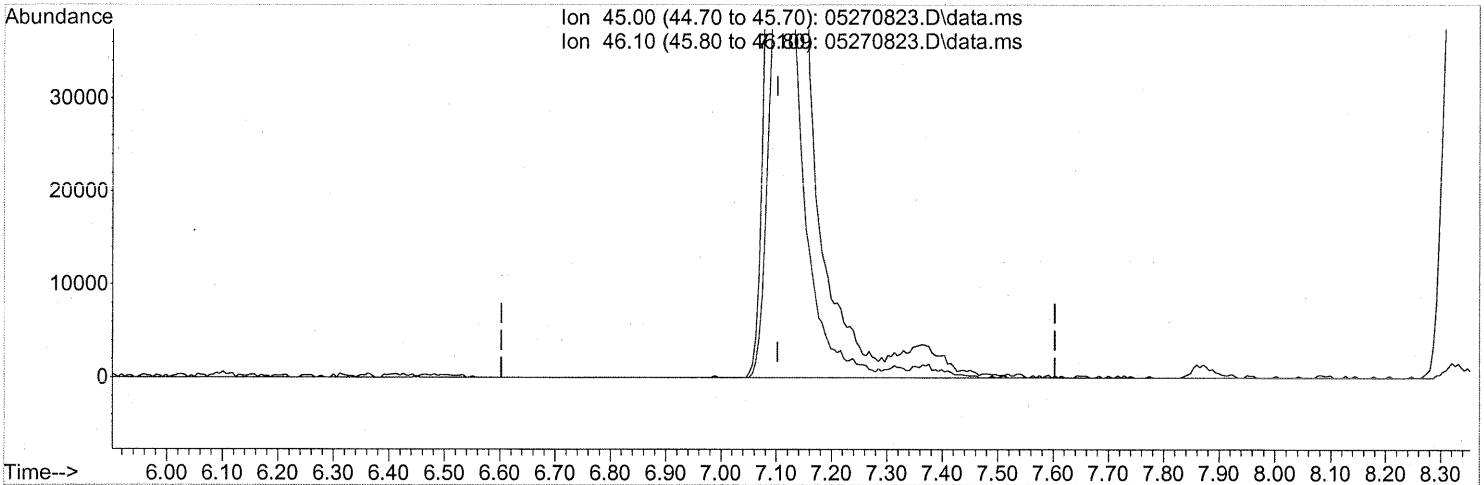
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 38.23 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

split peaks

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.109min (+0.006) 19.31ng m
 response 579383

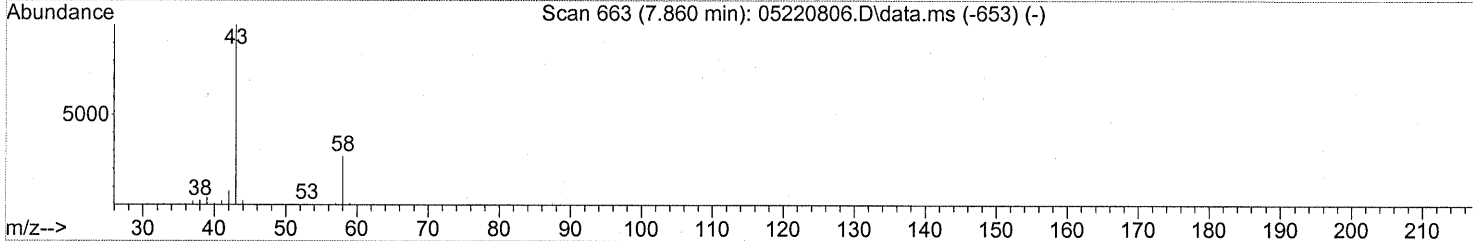
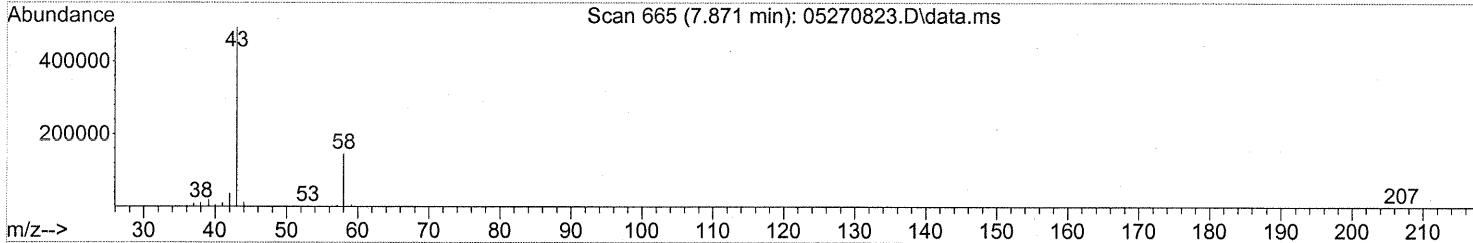
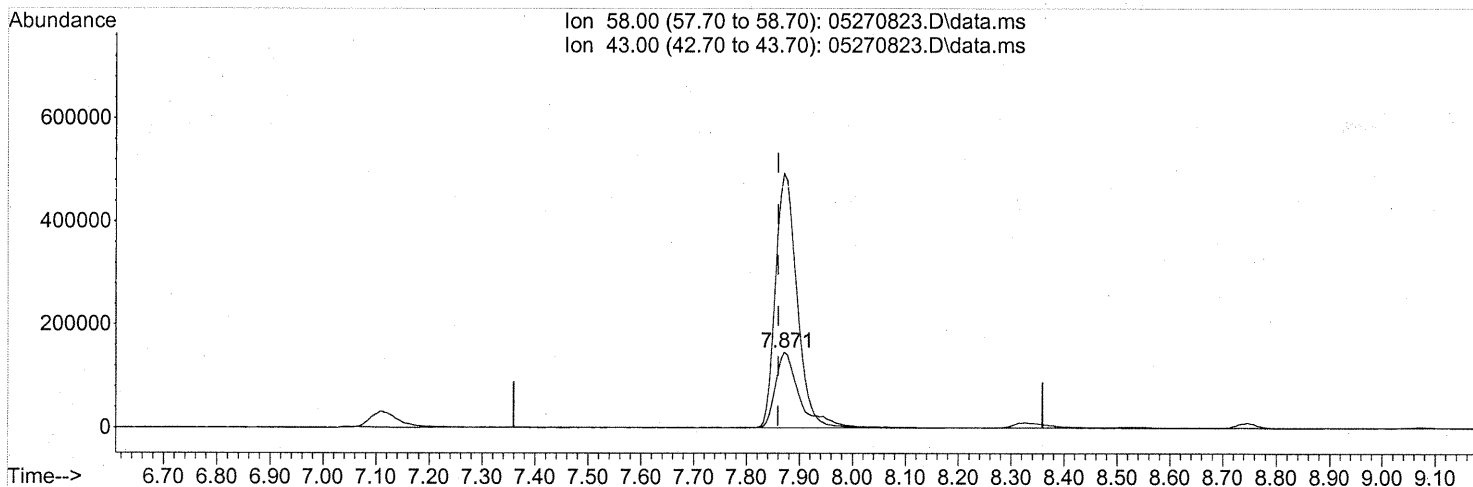
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 36.74 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

int. whole peaks
WA 5/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(13) Acetone (T)

7.871min (+0.011) 15.38ng

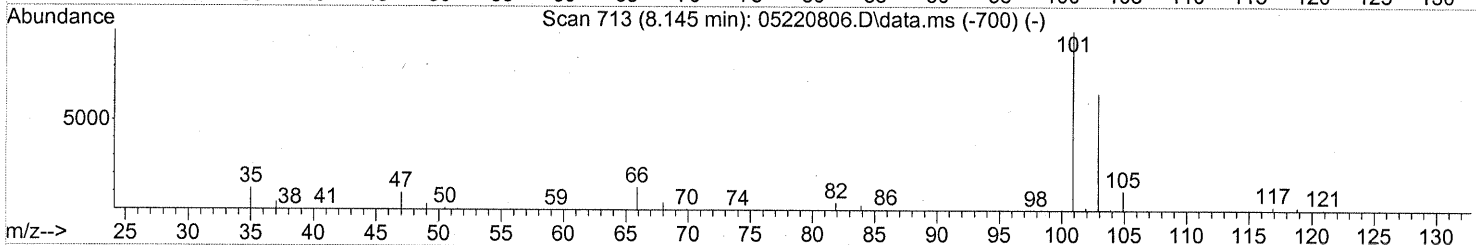
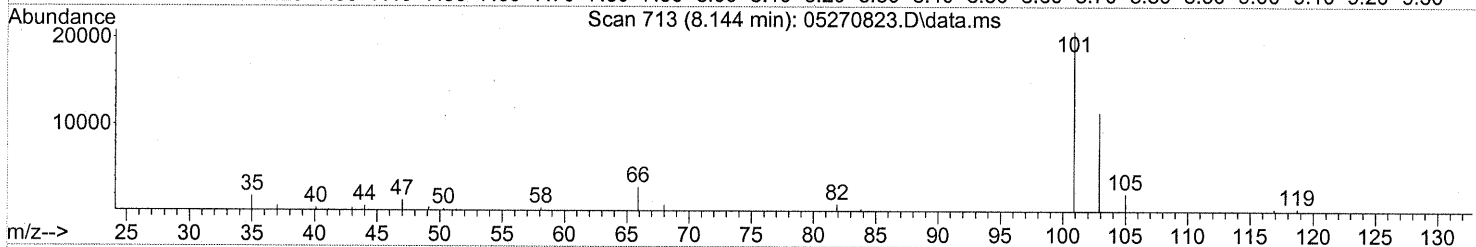
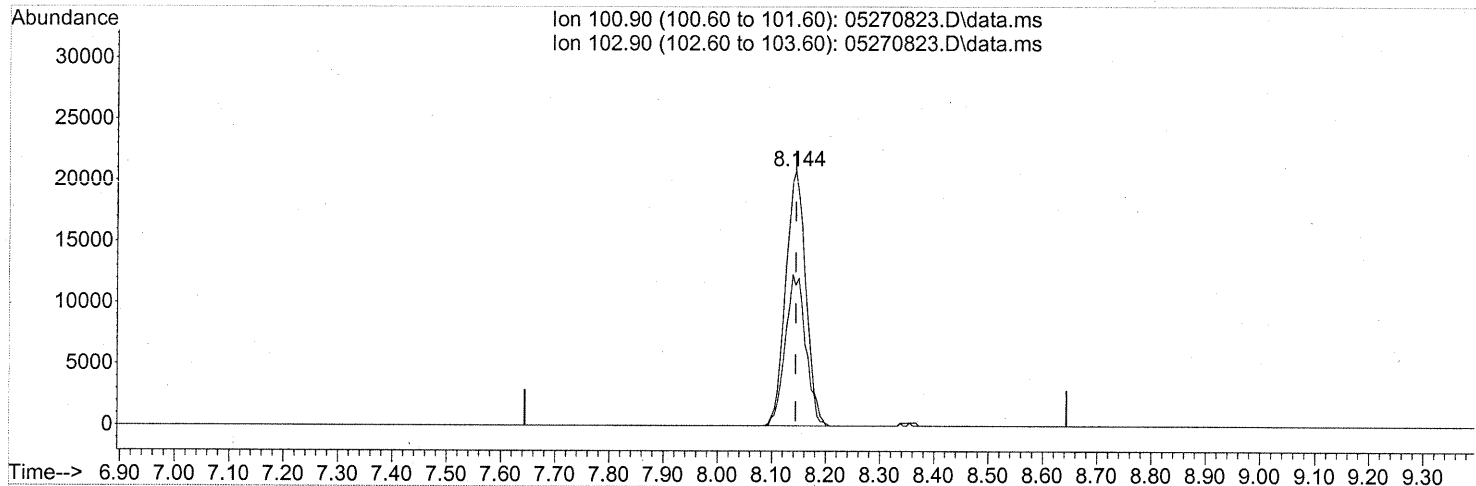
response 472698

| Ion | Exp% | Act% |
|-------|--------|--------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 296.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.75ng

response 53621

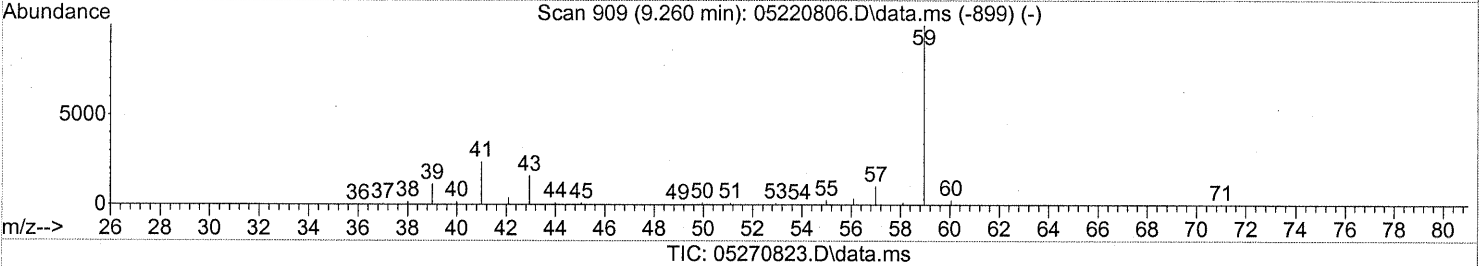
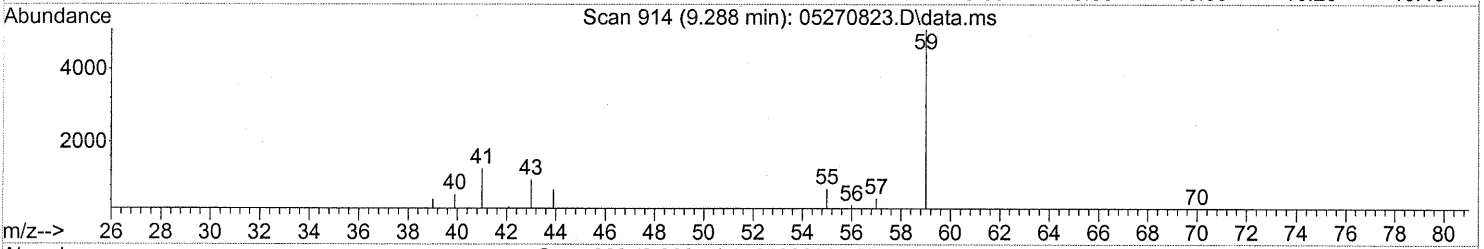
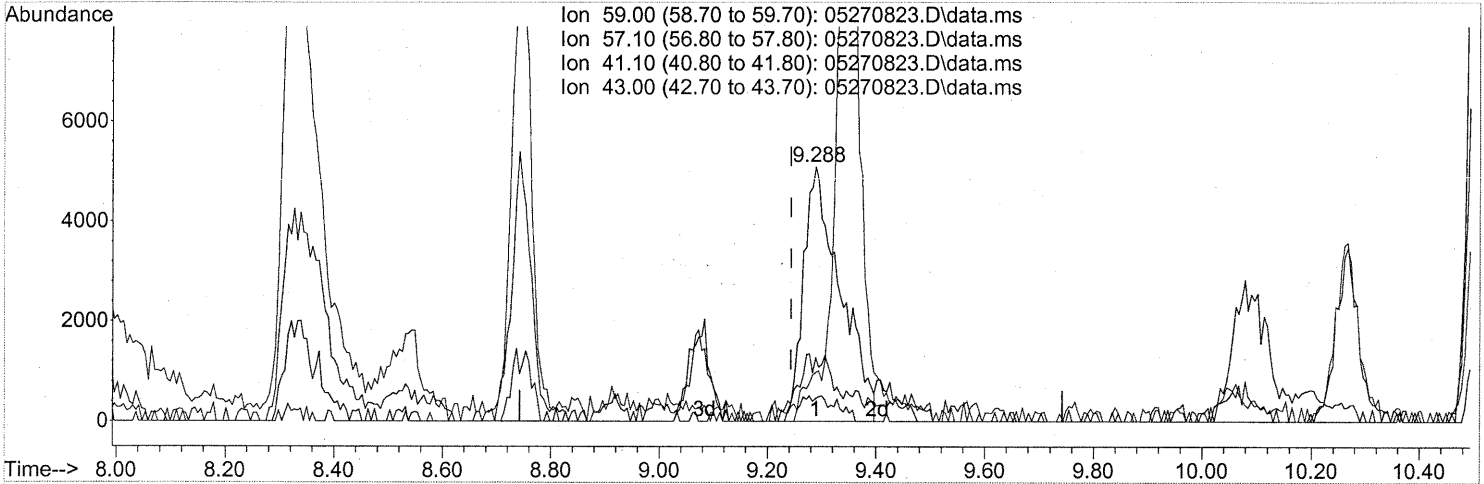
| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 59.95 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1195

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 1:14
Operator : WA
Sample : P0801483-026 (1000ml)
Misc : ENSR SG10B-05 (-2.8, 3.8)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)
9.288min (+0.045) 0.29ng
response 24013

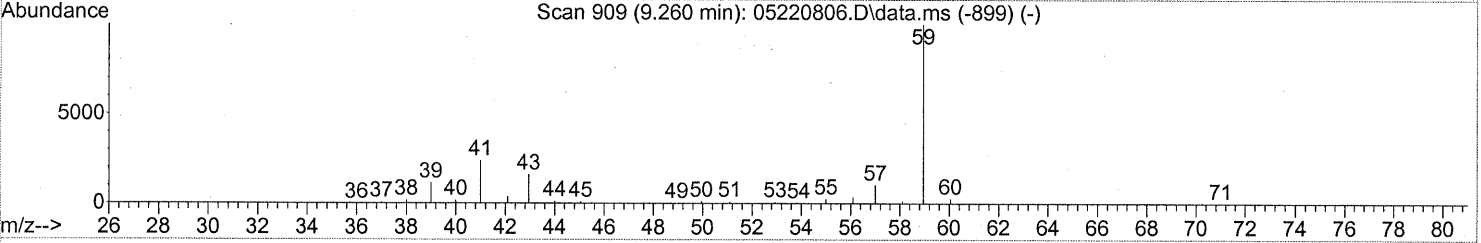
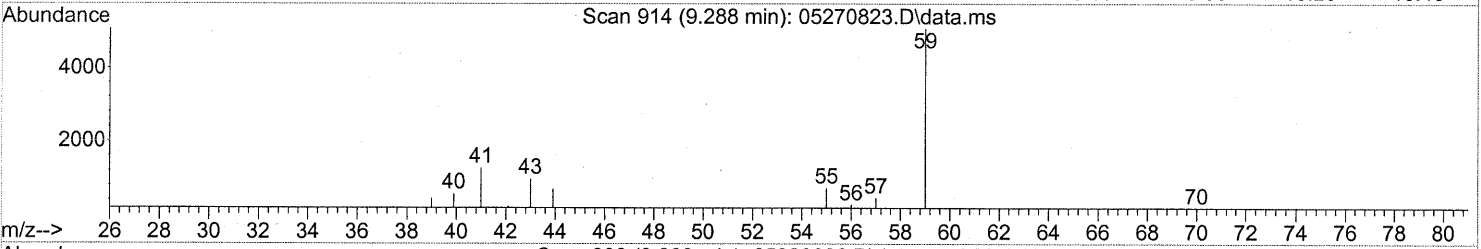
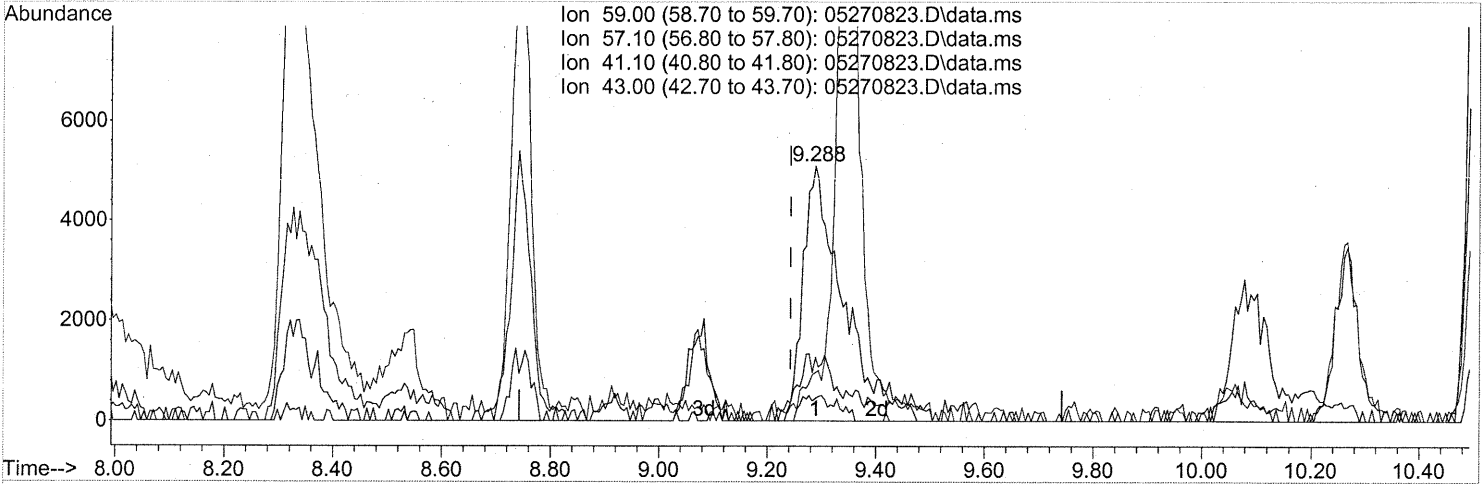
split peaks

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 9.44 |
| 41.10 | 20.10 | 0.00# |
| 43.00 | 12.30 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 1:14
Operator : WA
Sample : P0801483-026 (1000ml)
Misc : ENSR SG10B-05 (-2.8, 3.8)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.288min (+0.045) 0.31ng m

response 26088

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 8.69 |
| 41.10 | 20.10 | 0.00# |
| 43.00 | 12.30 | 0.00 |

Int. whole peaks

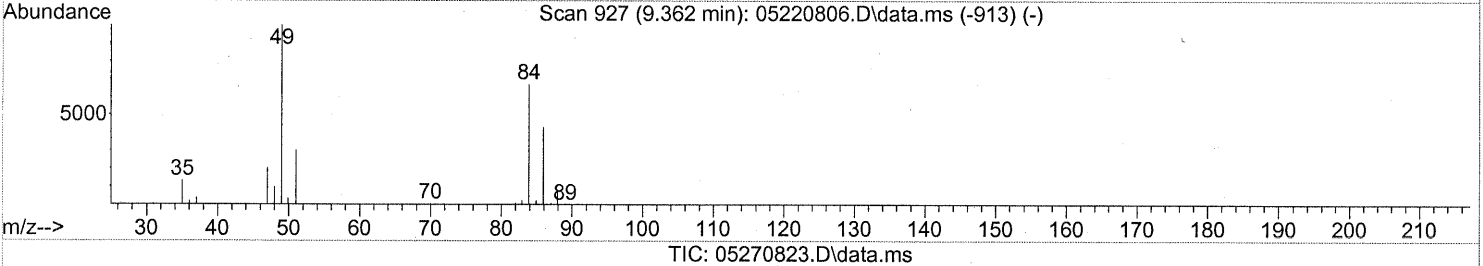
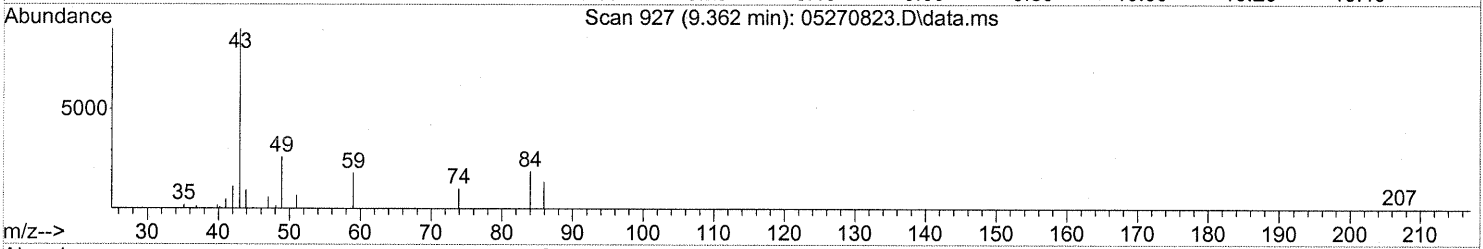
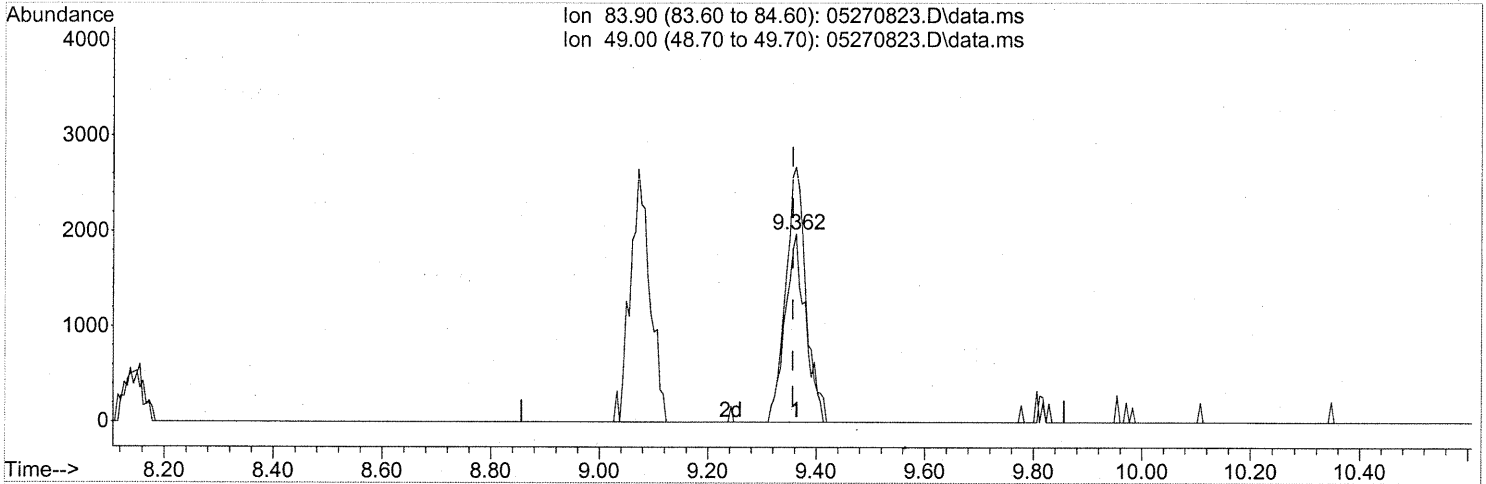
WA 6/2/08

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Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.15ng

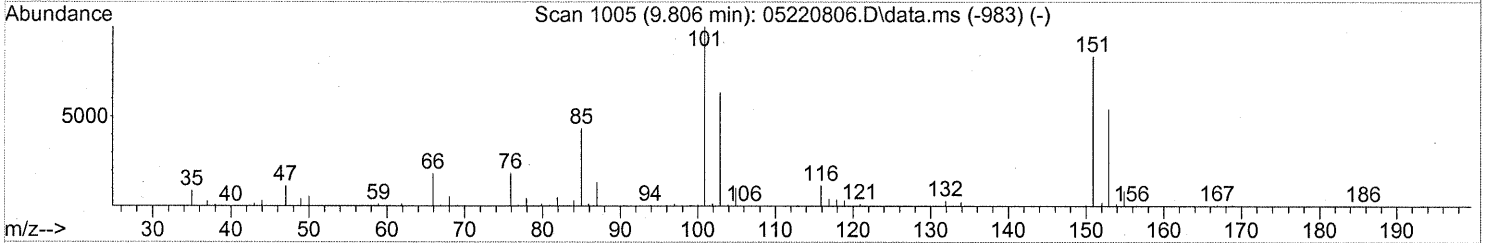
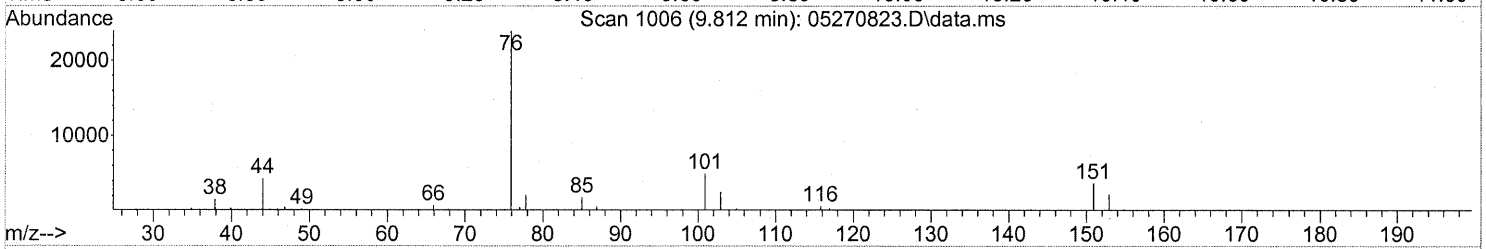
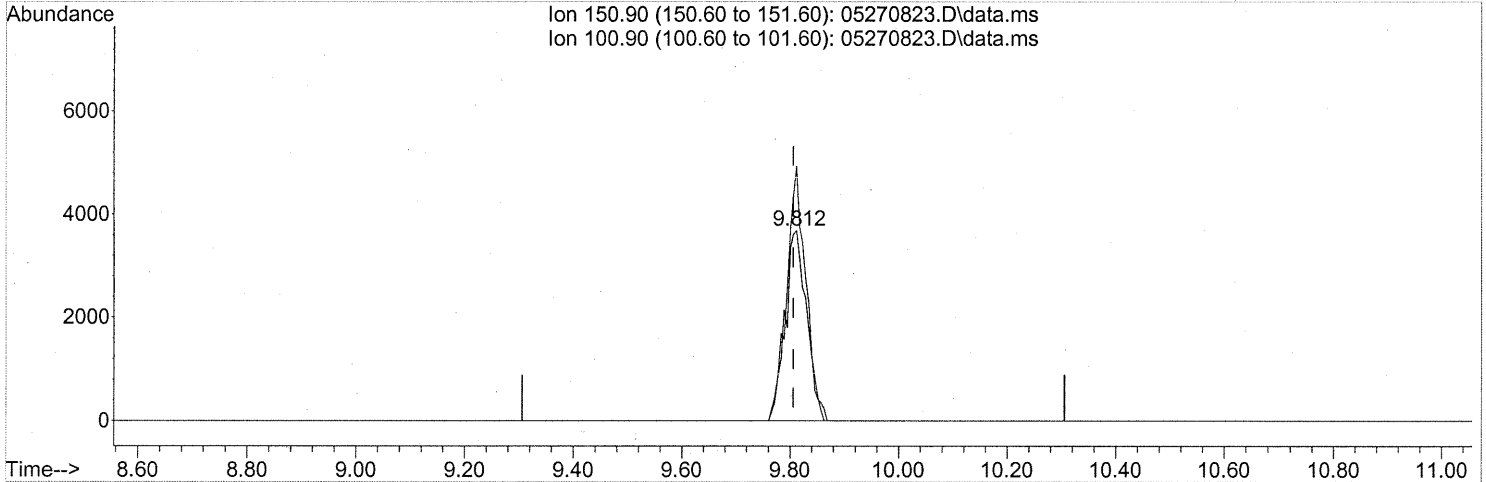
response 5184

| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 133.49# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.31ng

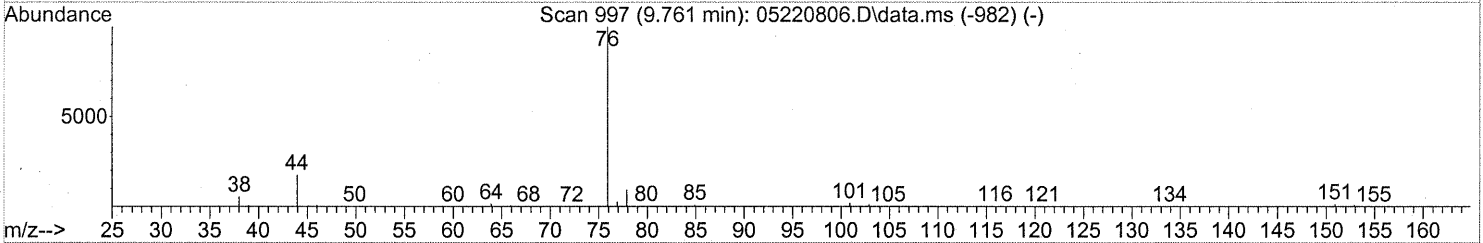
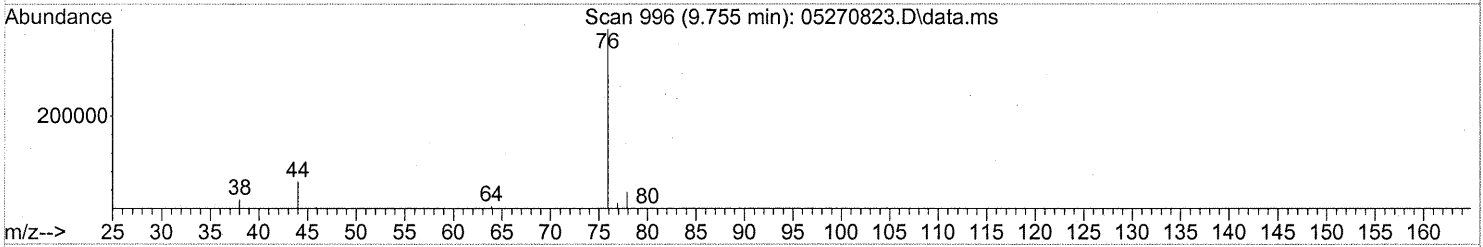
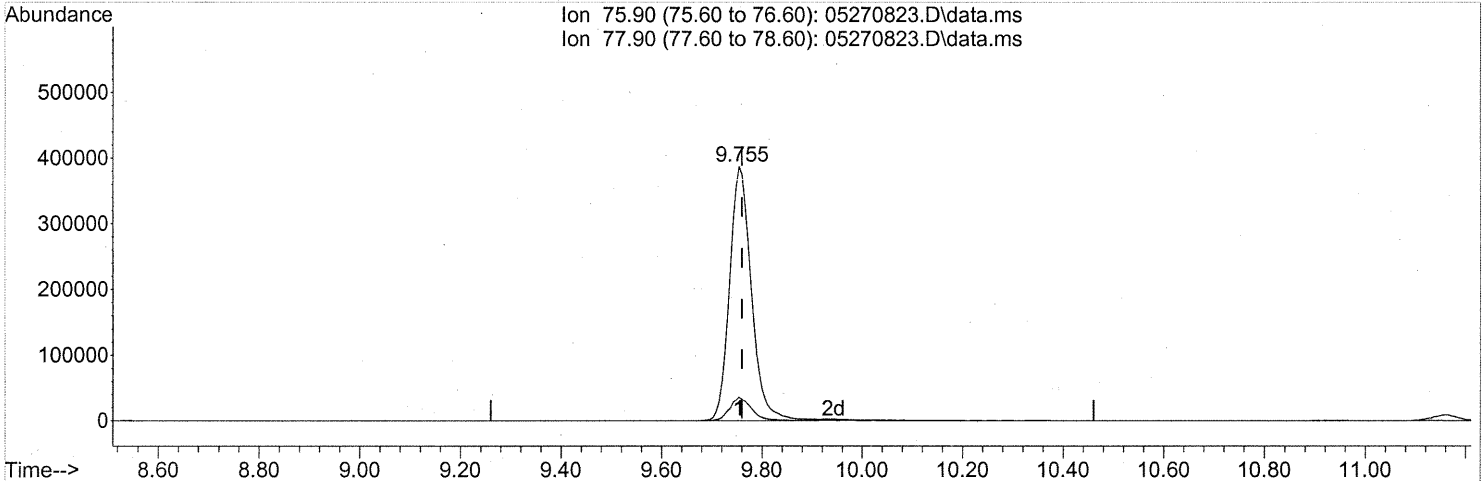
response 10171

| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 119.24 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 1:14
Operator : WA
Sample : P0801483-026 (1000ml)
Misc : ENSR SG10B-05 (-2.8, 3.8)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270823.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 8.83ng

response 1150804

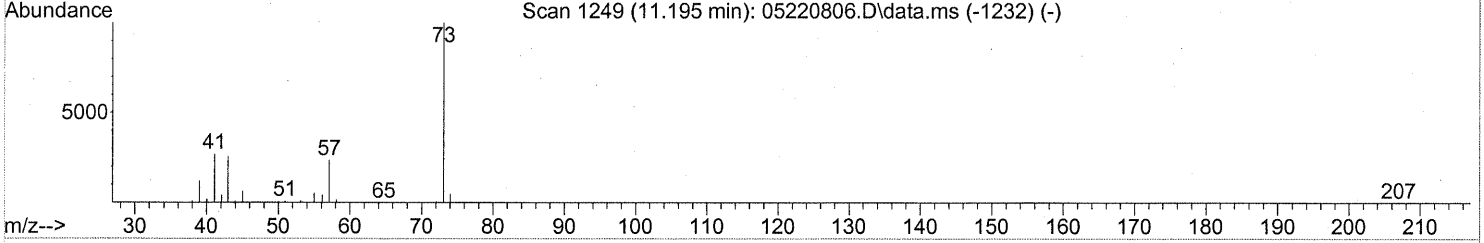
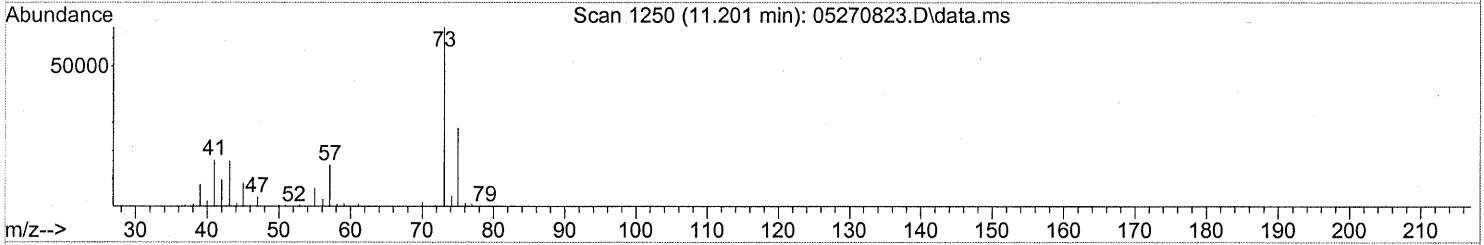
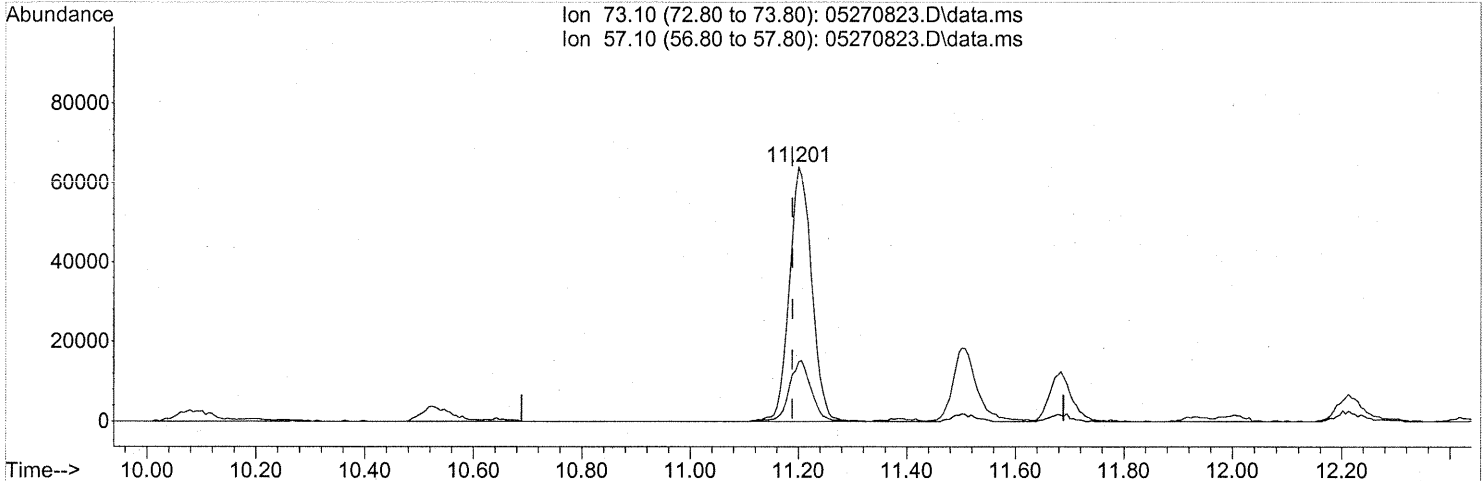
| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 8.99 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1200

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.201min (+0.011) 1.84ng

response 183145

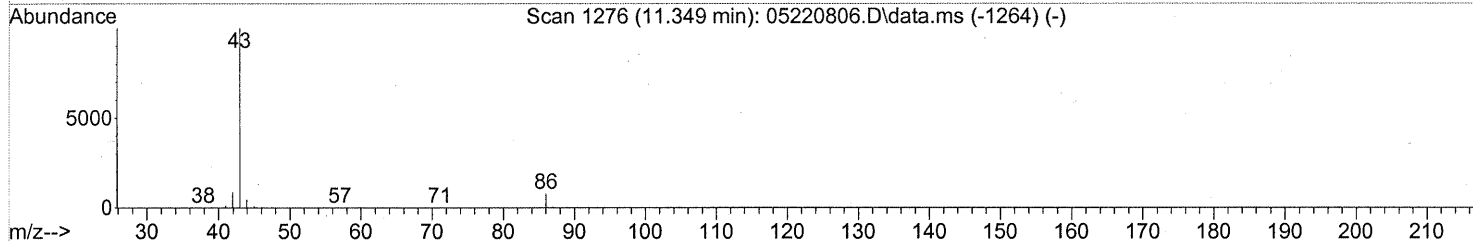
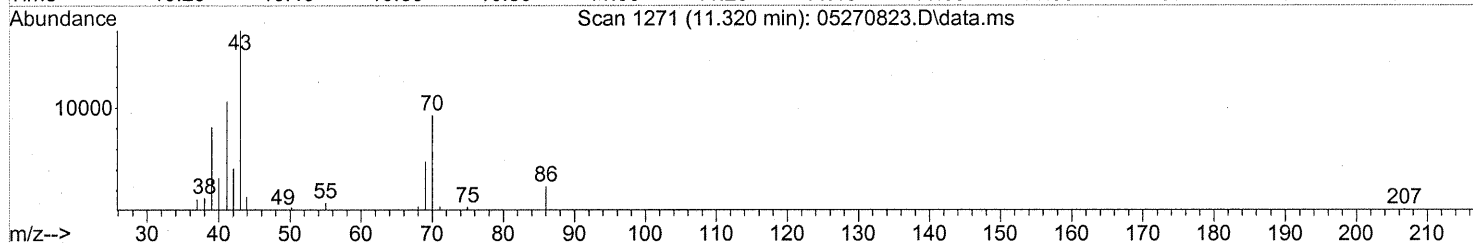
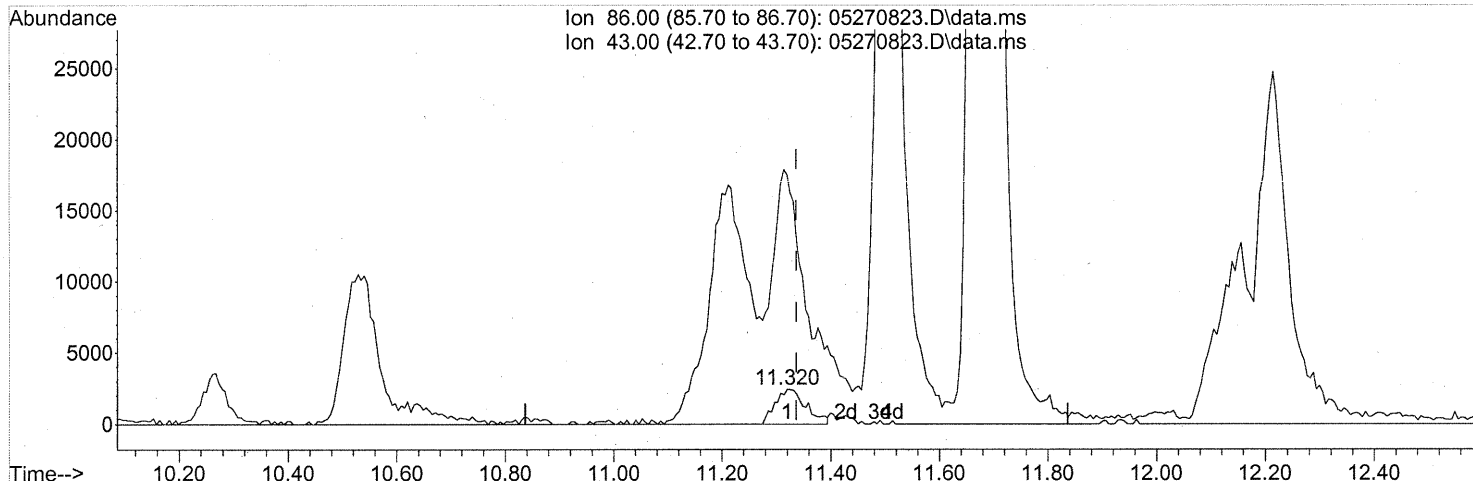
| Ion | Exp% | Act% |
|-------|-------|-------|
| 73.10 | 100 | 100 |
| 57.10 | 31.40 | 23.19 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1201

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(26) Vinyl Acetate (T)

11.320min (-0.017) 1.65ng

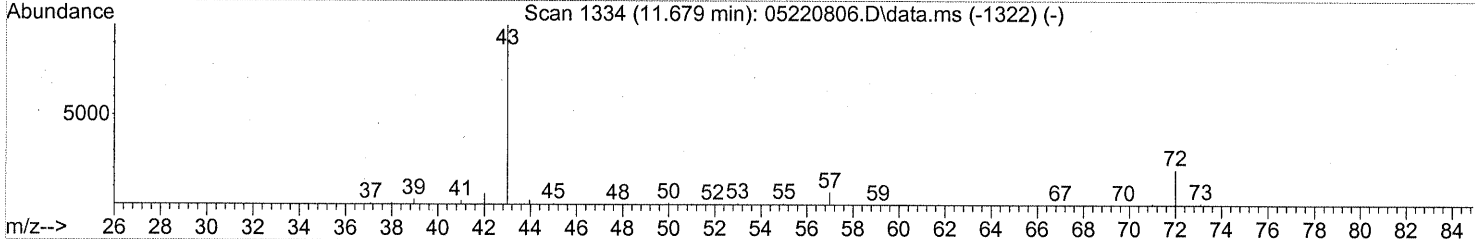
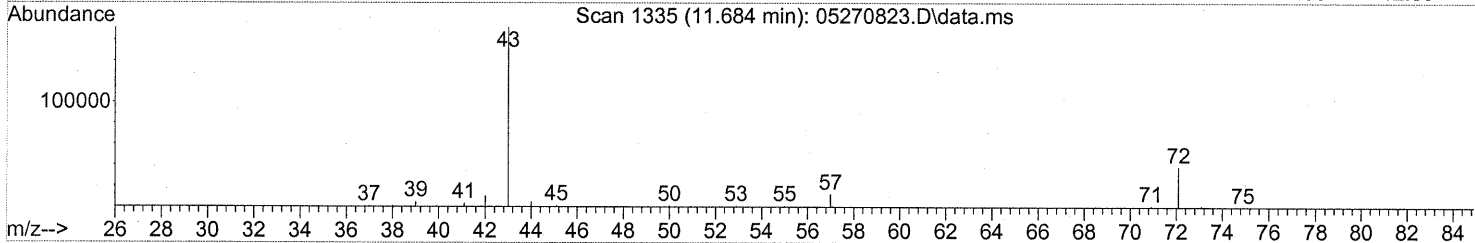
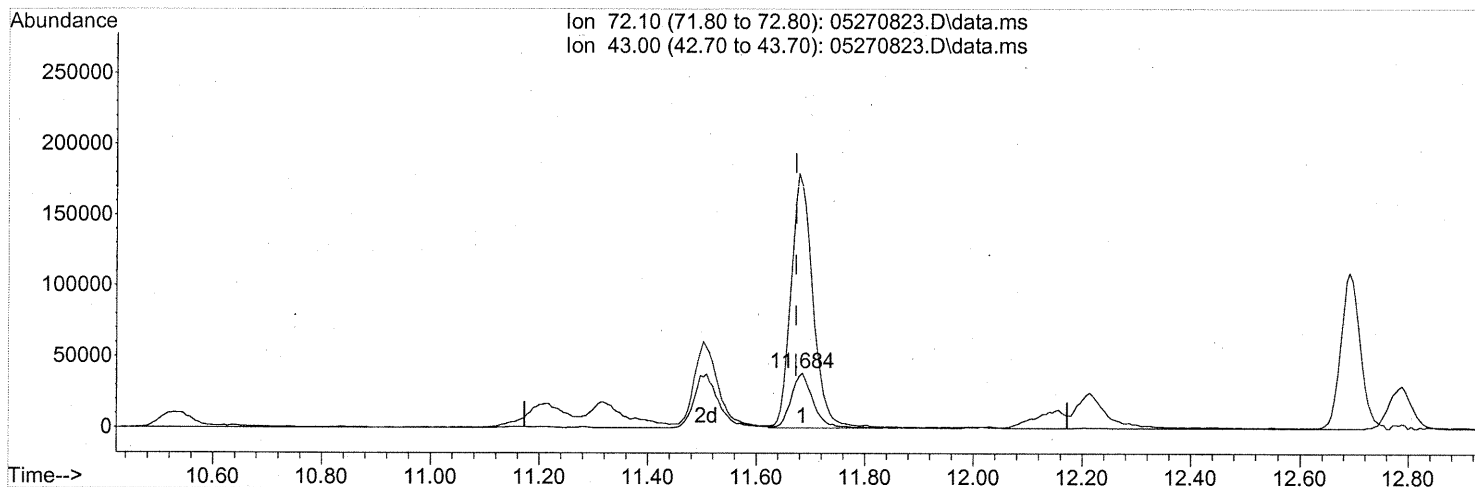
response 9395

| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 864.06# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 1:14
Operator : WA
Sample : P0801483-026 (1000ml)
Misc : ENSR SG10B-05 (-2.8, 3.8)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(27) 2-Butanone (T)
11.684min (+0.011) 4.77ng
response 106858

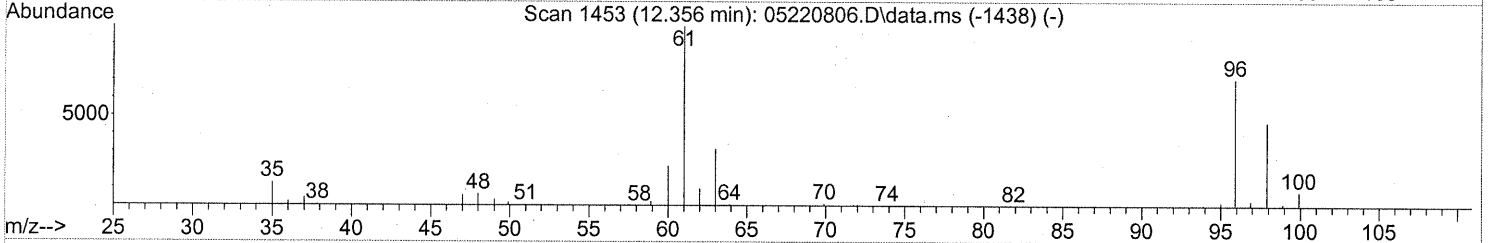
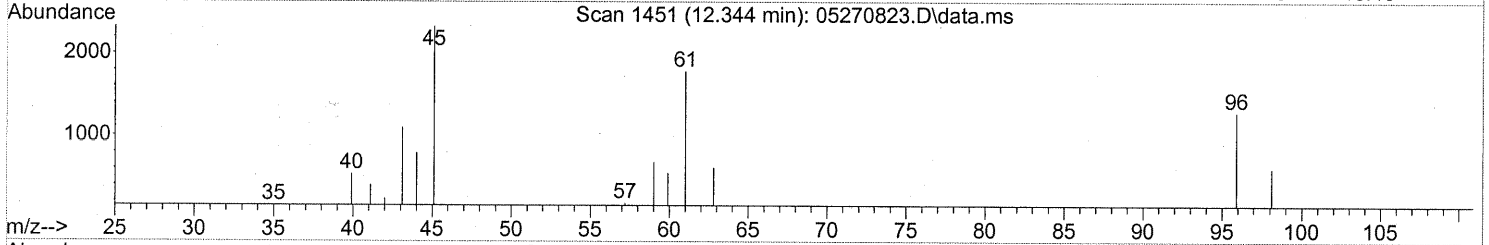
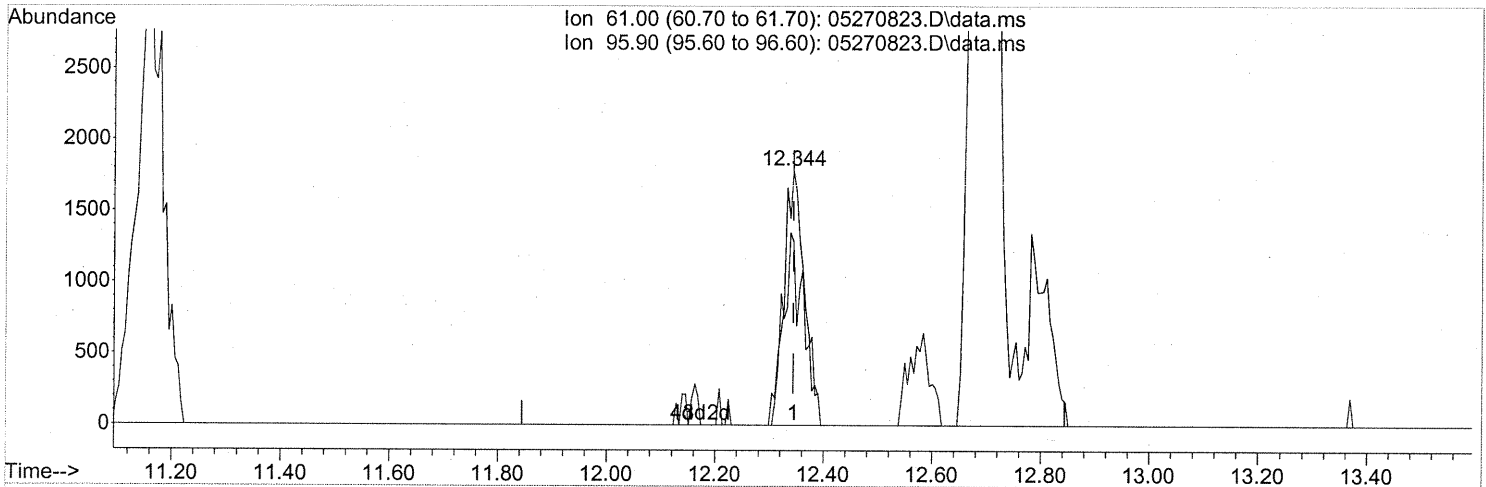
| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 465.38# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1203

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 1:14
Operator : WA
Sample : P0801483-026 (1000ml)
Misc : ENSR SG10B-05 (-2.8, 3.8)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(28) cis-1,2-Dichloroethene (T)

12.344min (-0.000) 0.09ng

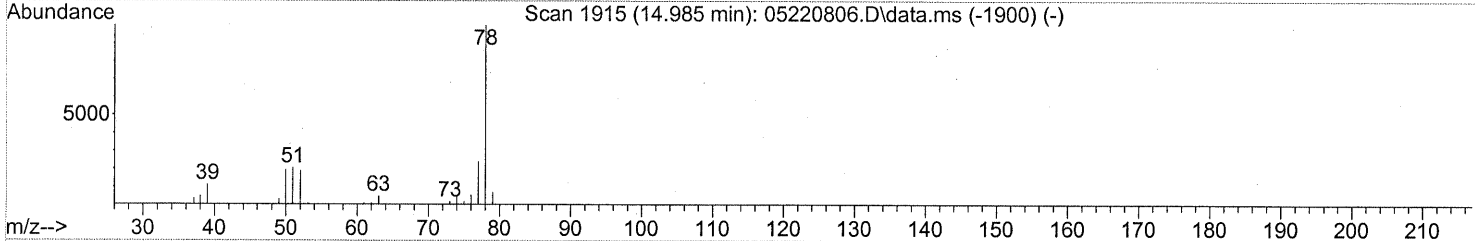
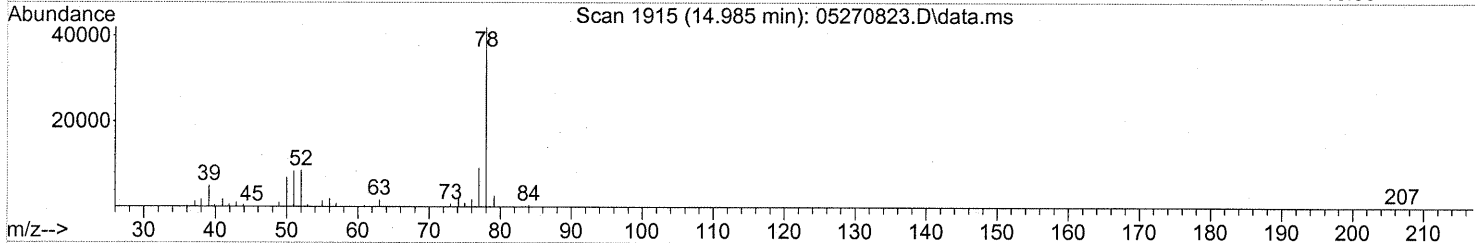
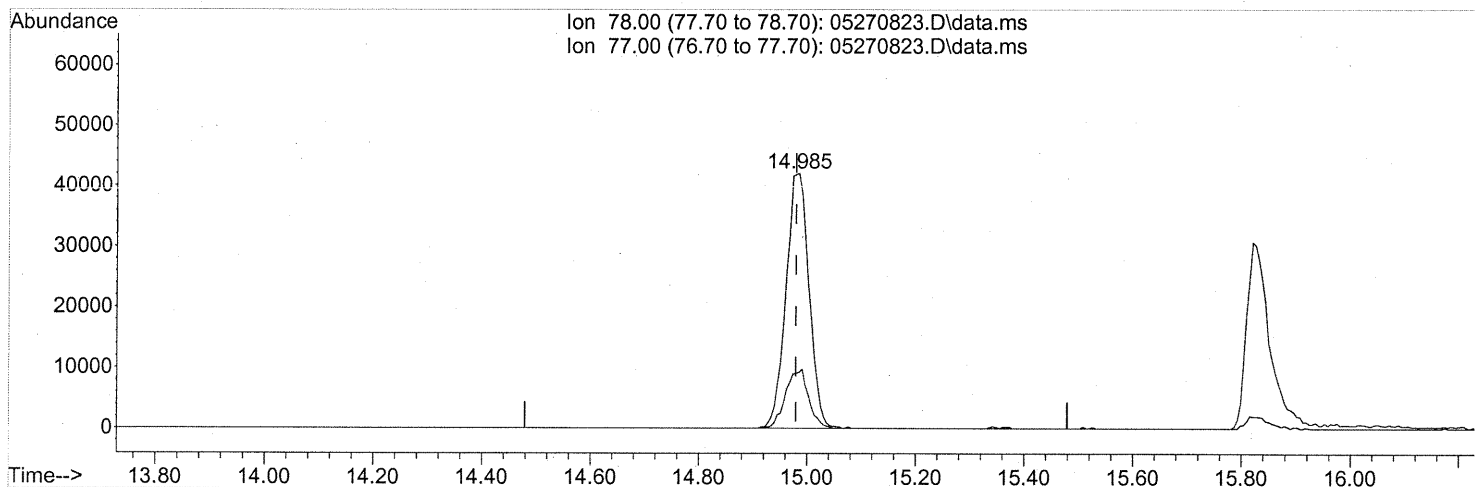
response 4597

| Ion | Exp% | Act% |
|-------|-------|-------|
| 61.00 | 100 | 100 |
| 95.90 | 59.60 | 78.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(41) Benzene (T)
 14.985min (+0.006) 0.98ng
 response 123940

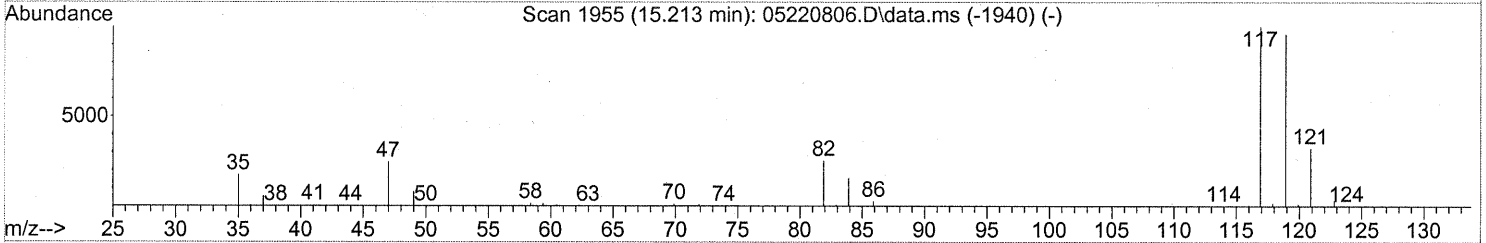
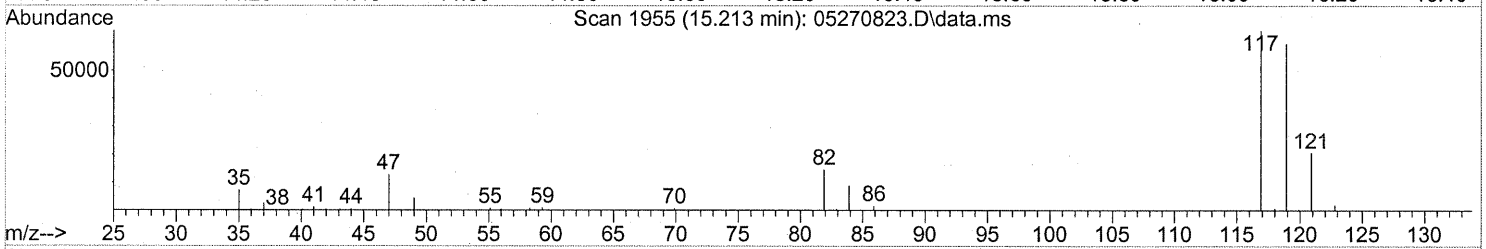
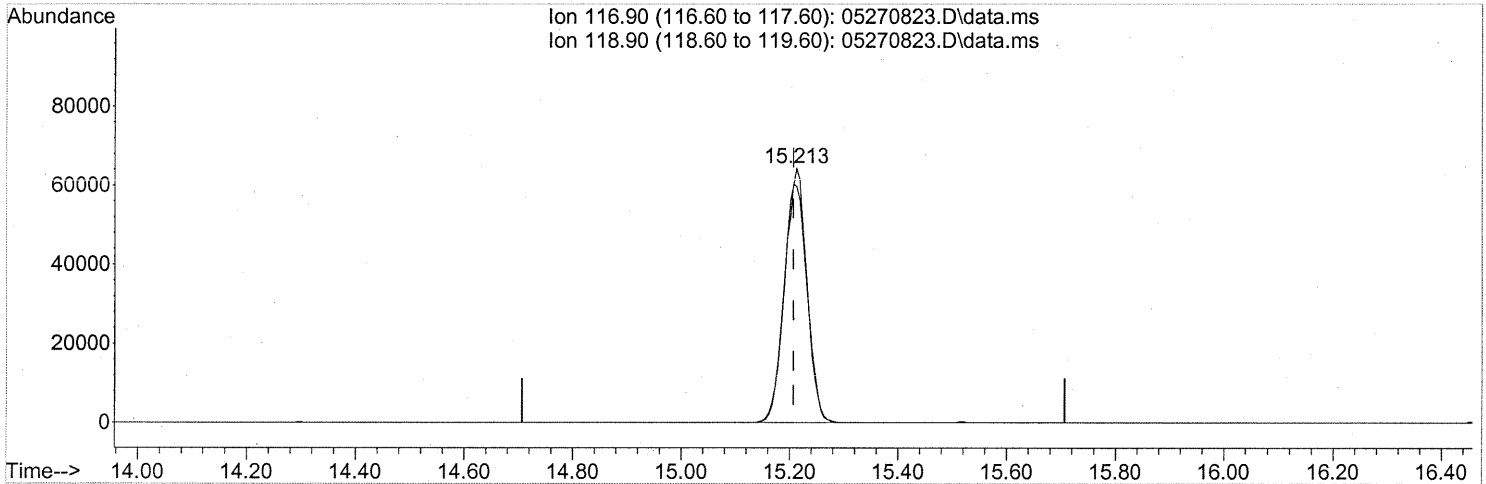
| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 22.88 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1205

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 3.80ng

response 184434

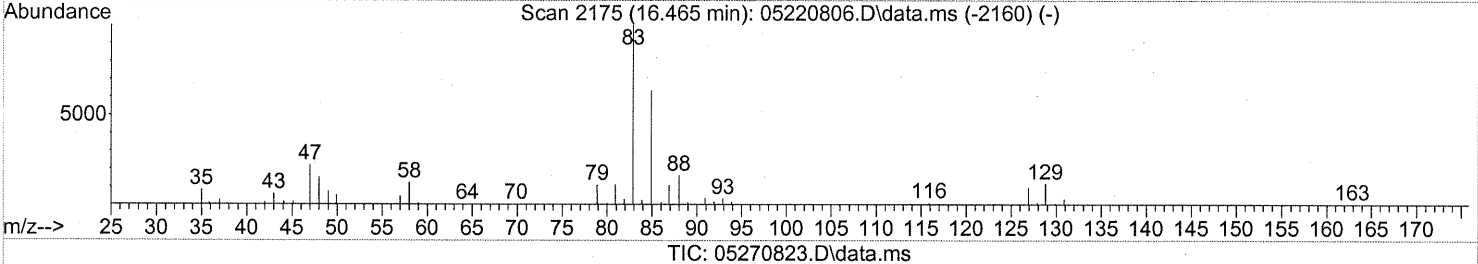
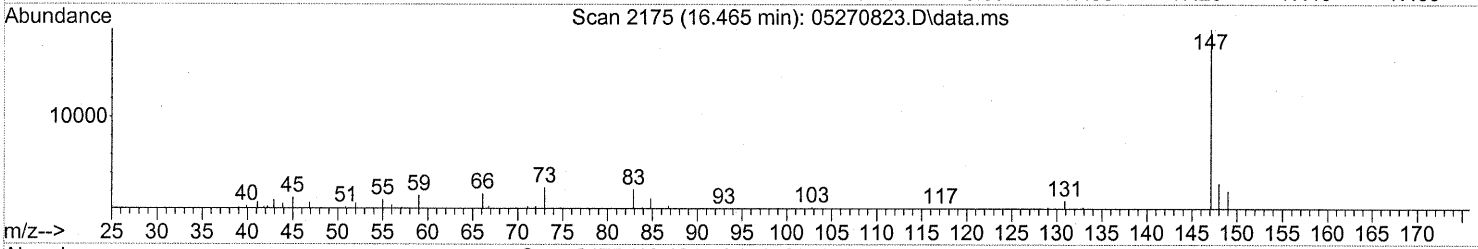
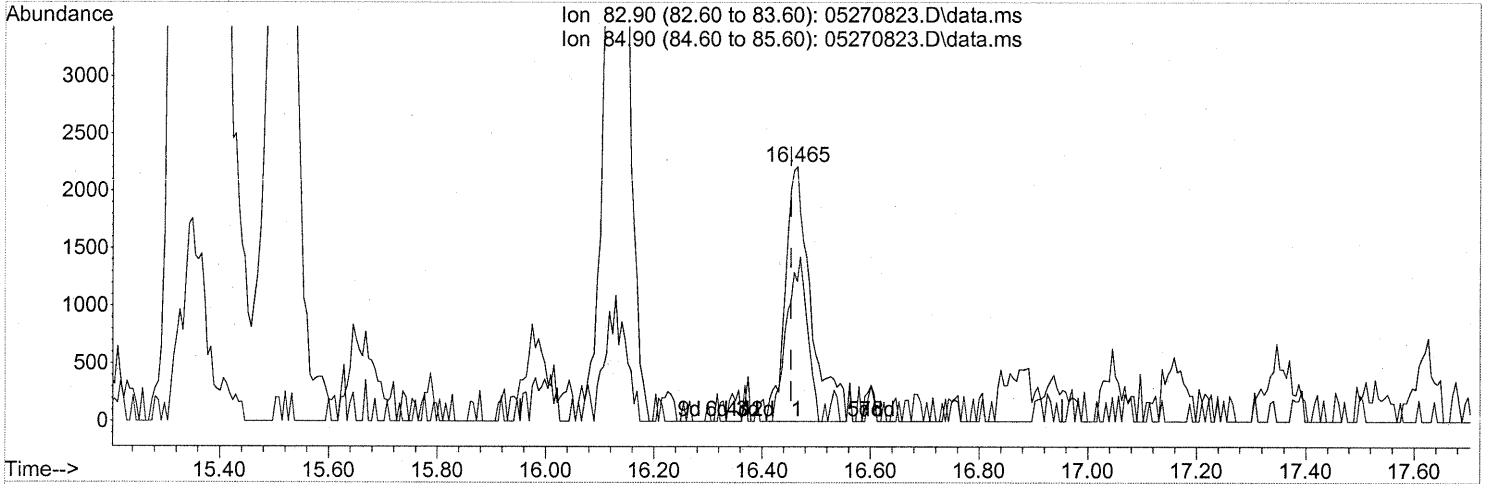
| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 95.20 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1206

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.17ng

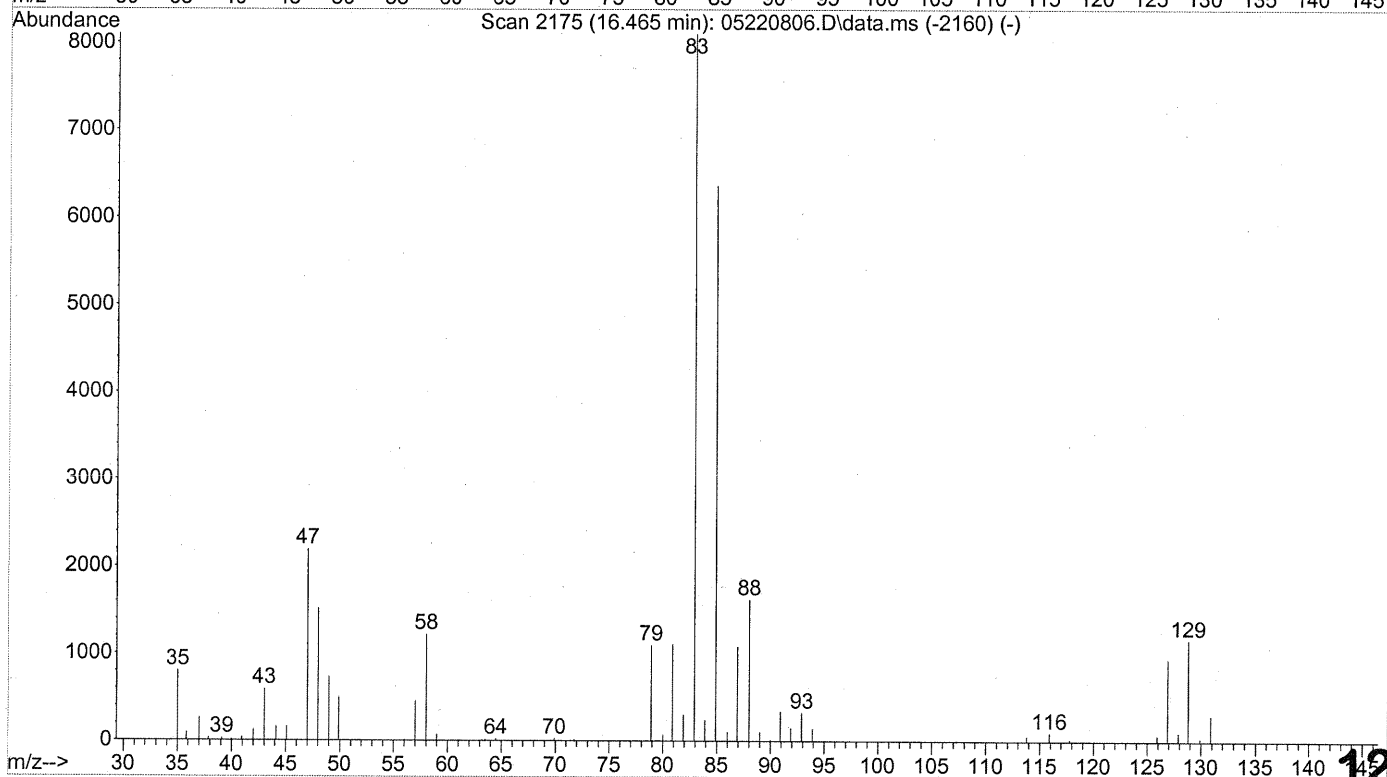
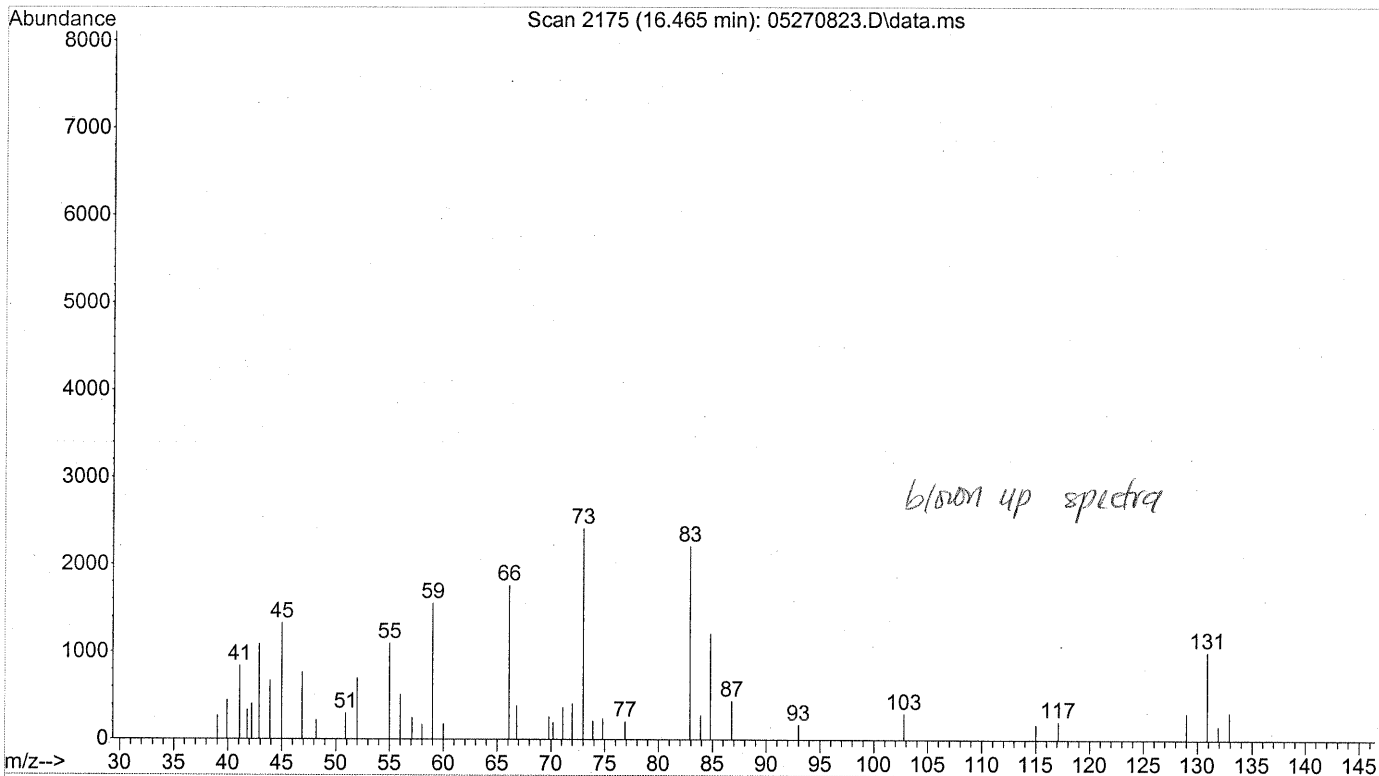
response 7298

see blown up spectra

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 51.38 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1207

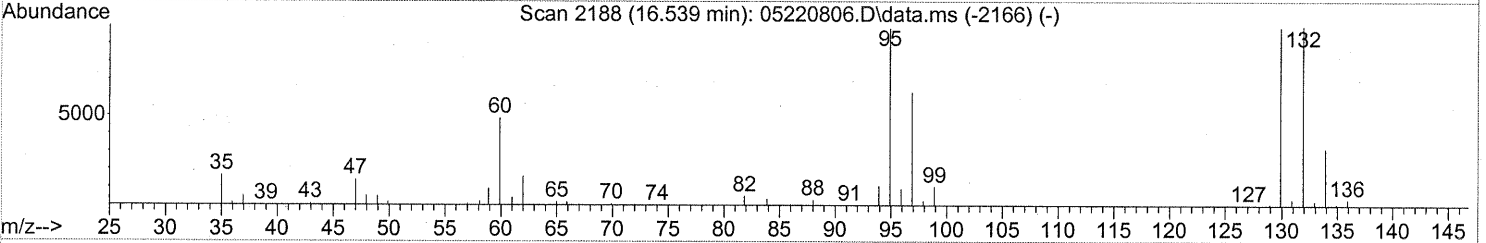
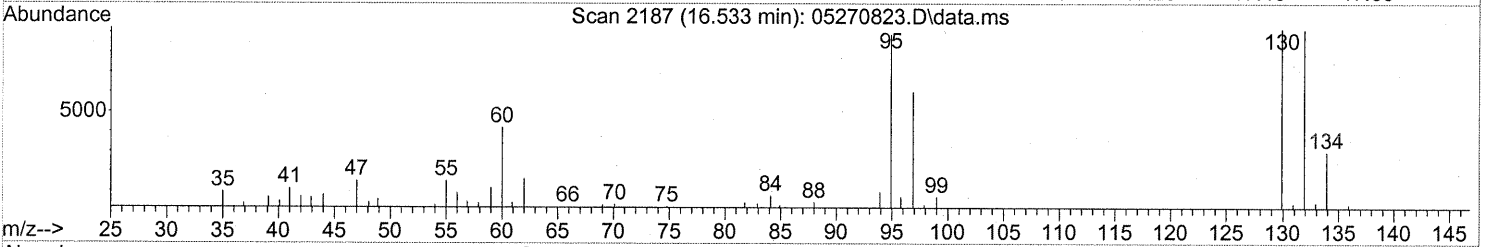
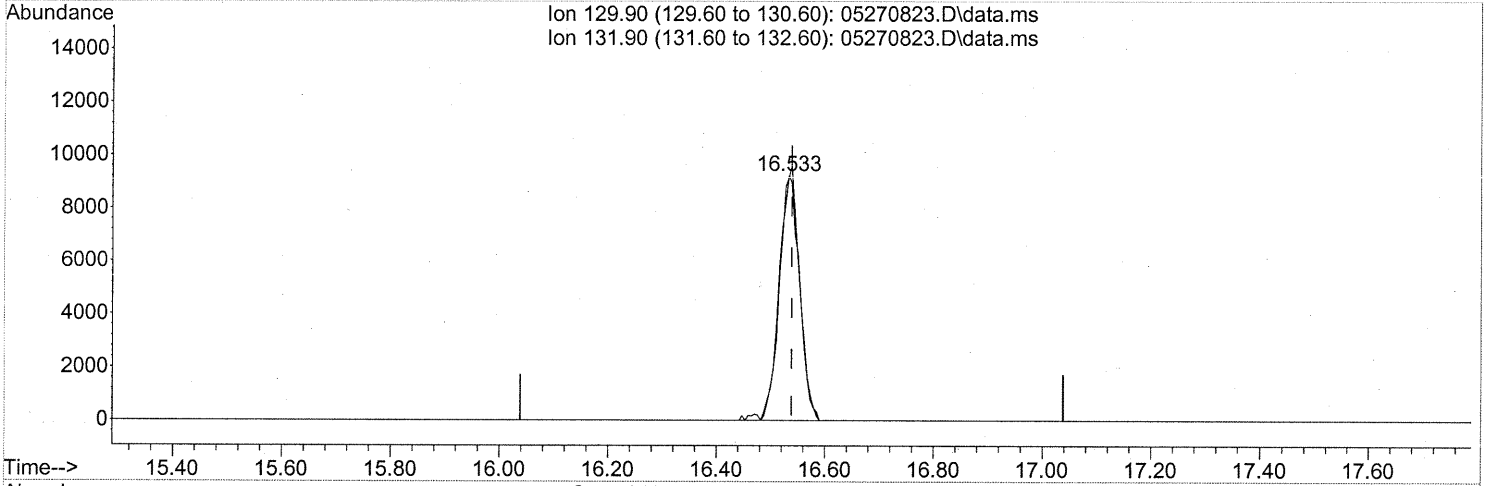
File :J:\MS13\DATA\2008_05\27\05270823.D
Operator : WA
Acquired : 28 May 2008 1:14 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-026 (1000ml)
Misc Info : ENSR SG10B-05 (-2.8, 3.8)
Vial Number: 9



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(47) Trichloroethene (T)

16.533min (-0.006) 0.62ng

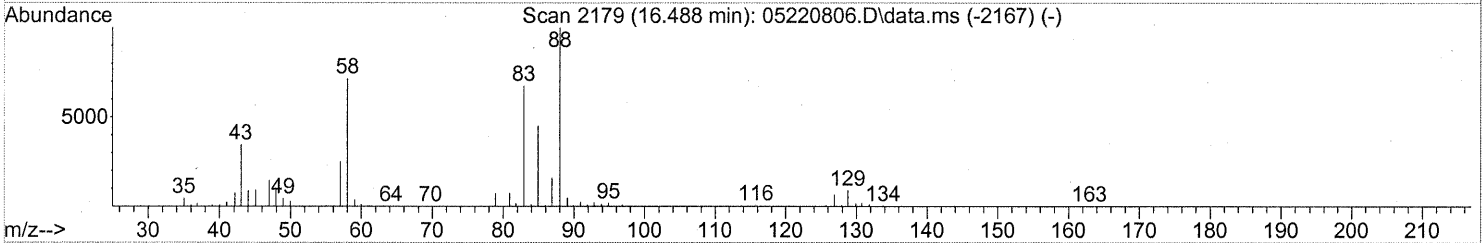
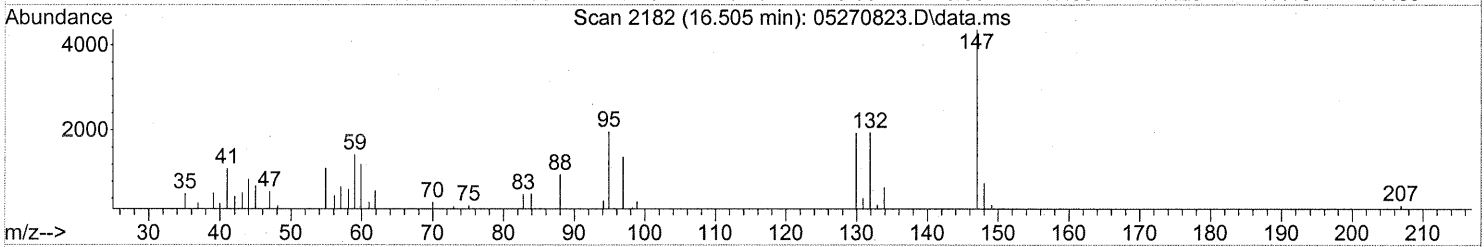
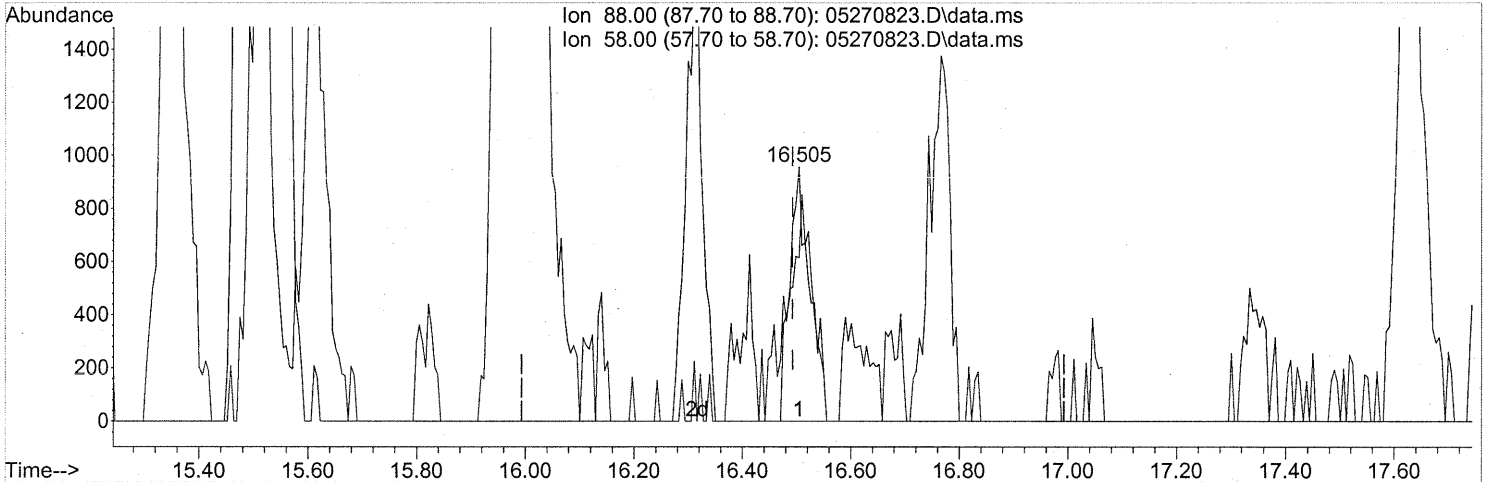
response 24042

| Ion | Exp% | Act% |
|--------|--------|--------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 101.43 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(48) 1,4-Dioxane (T)

16.505min (+0.011) 0.10ng

response 2496

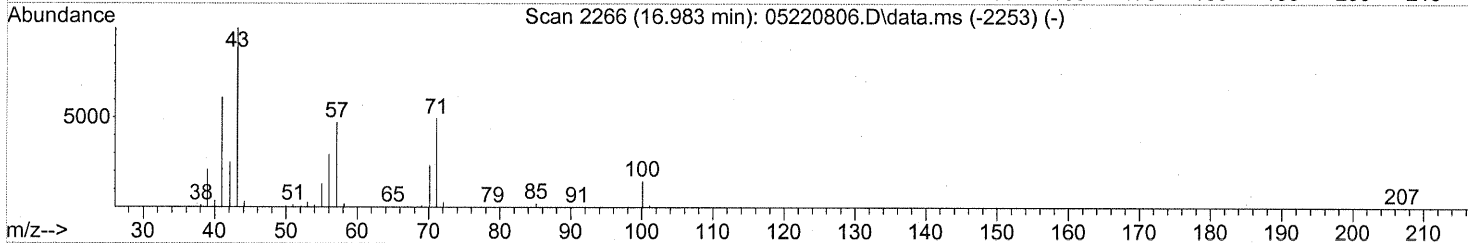
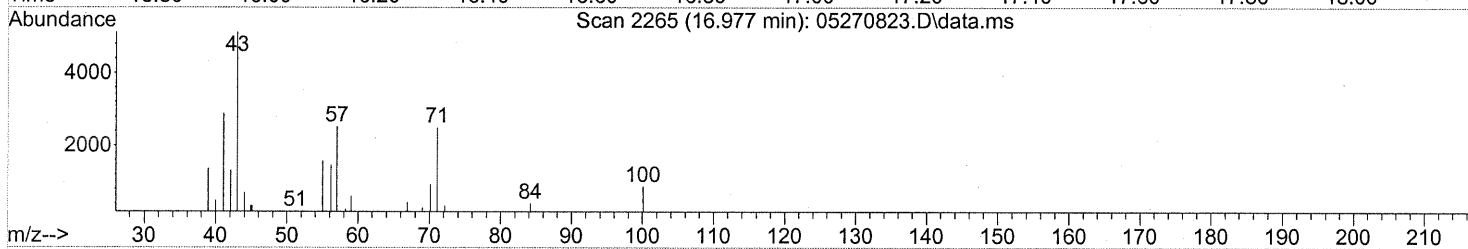
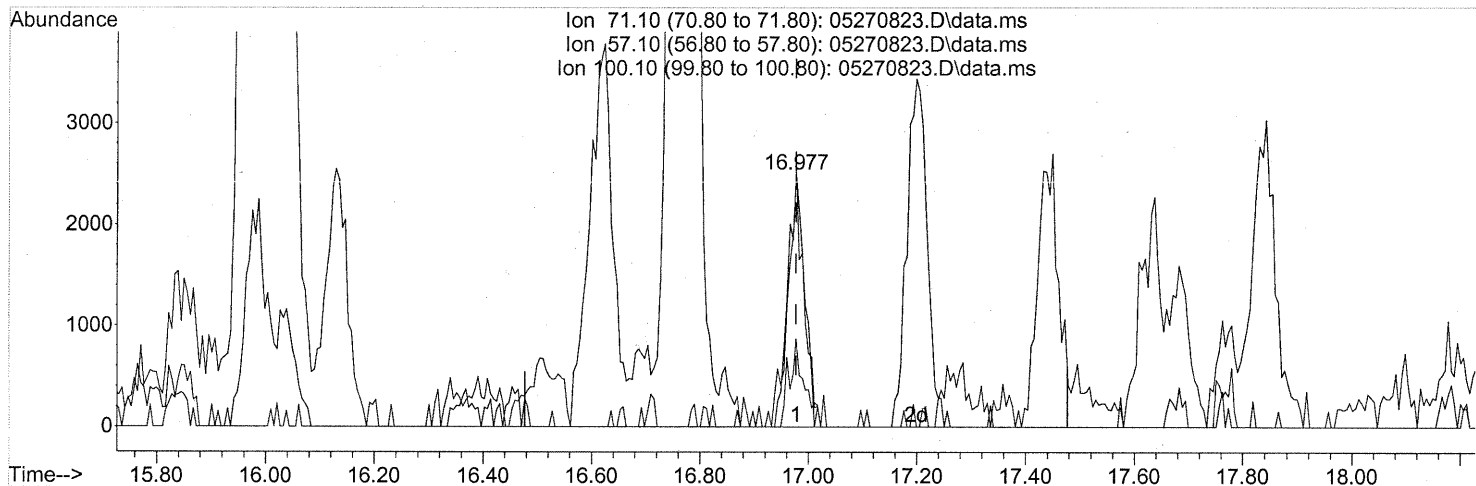
| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 98.44 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1210

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(51) n-Heptane (T)
 16.977min (-0.000) 0.16ng
 response 5368

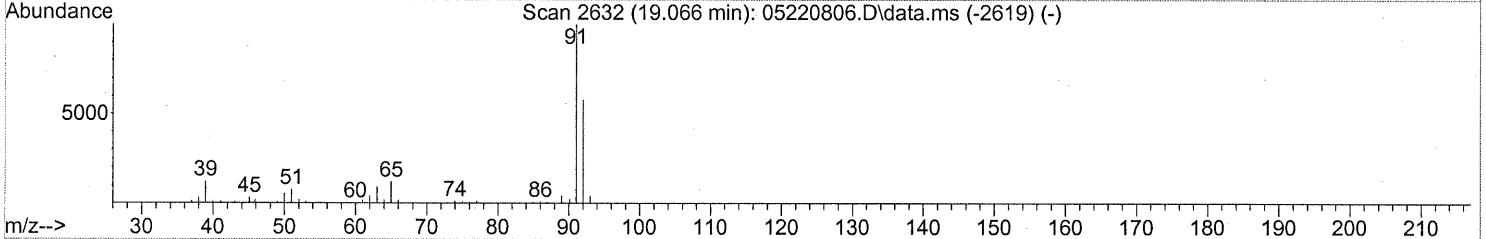
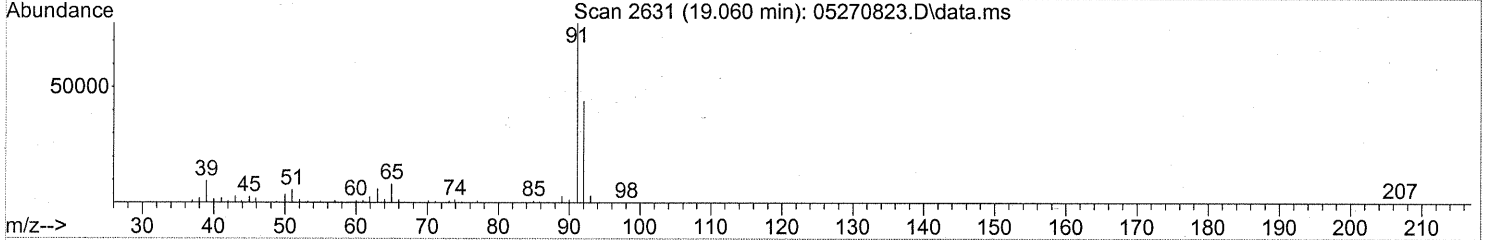
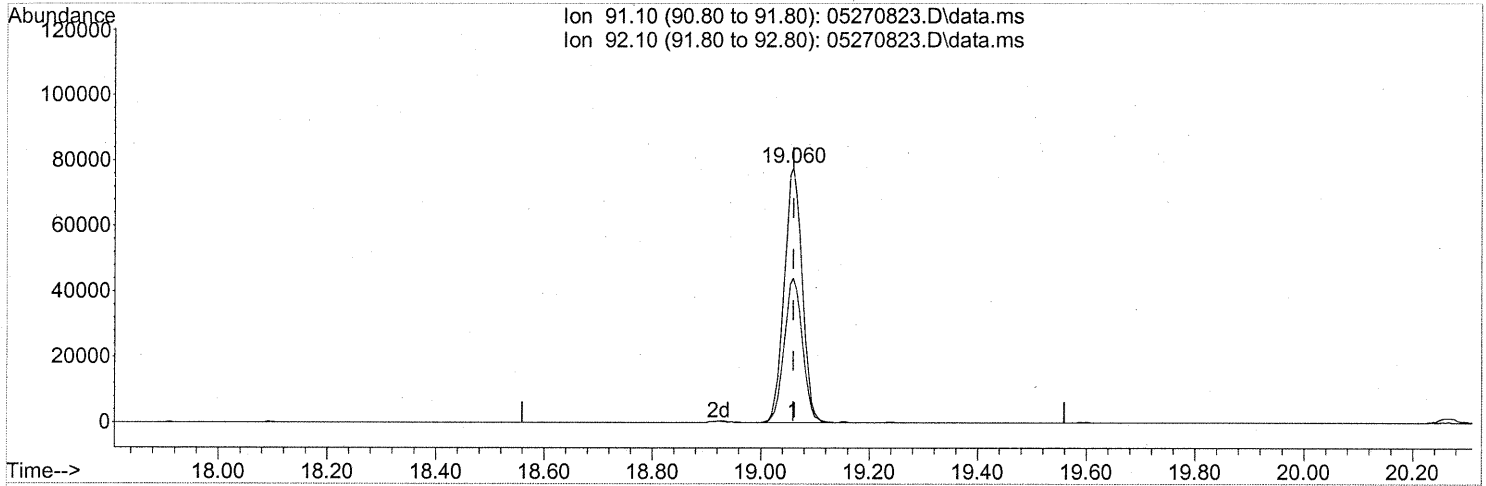
| Ion | Exp% | Act% |
|--------|--------|--------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 97.62# |
| 100.10 | 30.10 | 31.76 |
| 0.00 | 0.00 | 0.00 |

1211

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 1.32ng

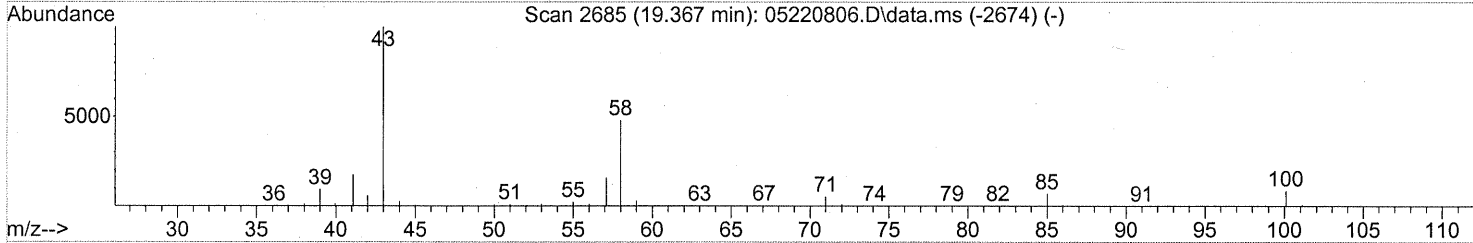
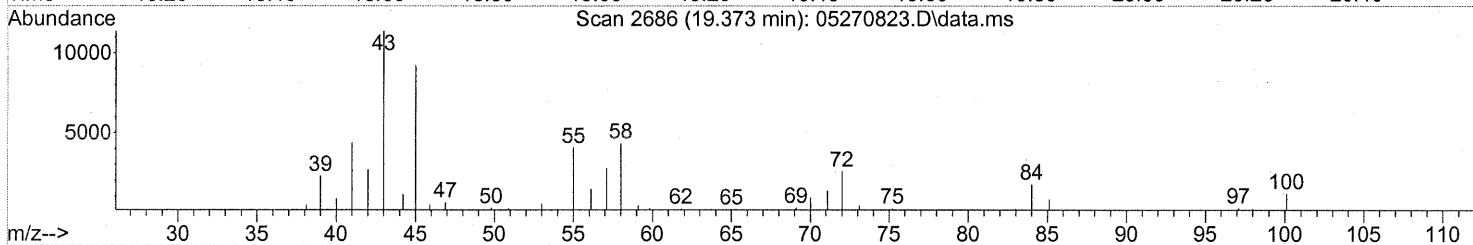
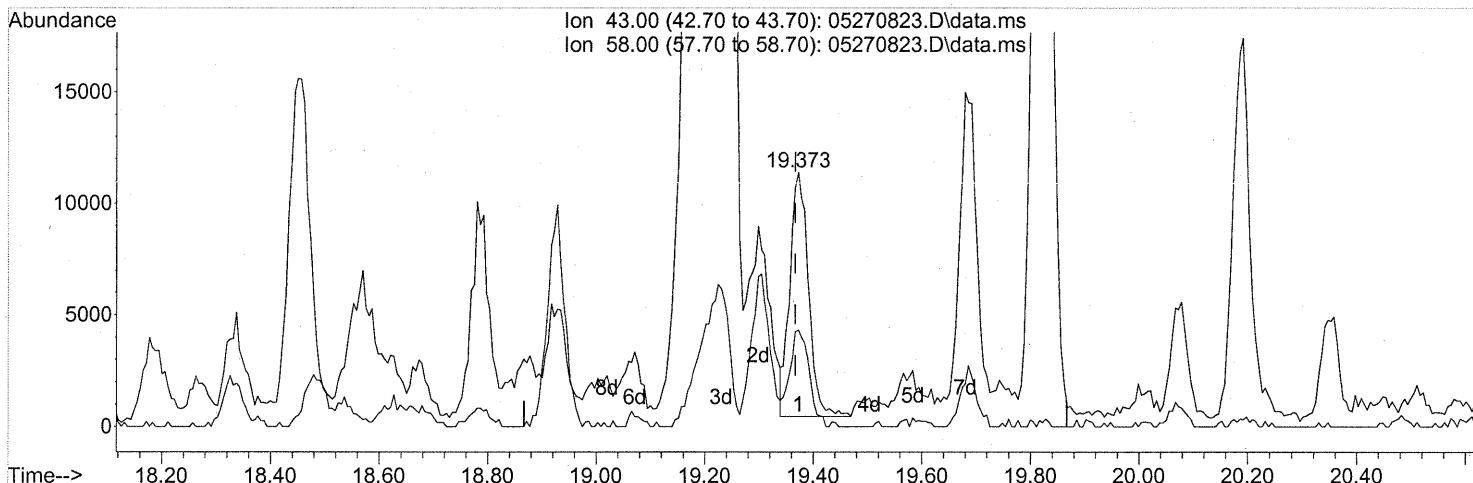
response 178871

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 57.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(59) 2-Hexanone (T)

19.373min (+0.006) 0.28ng

response 26131

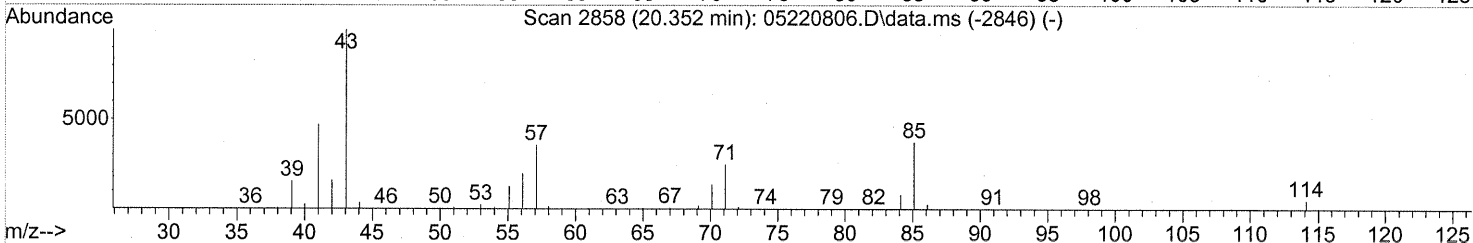
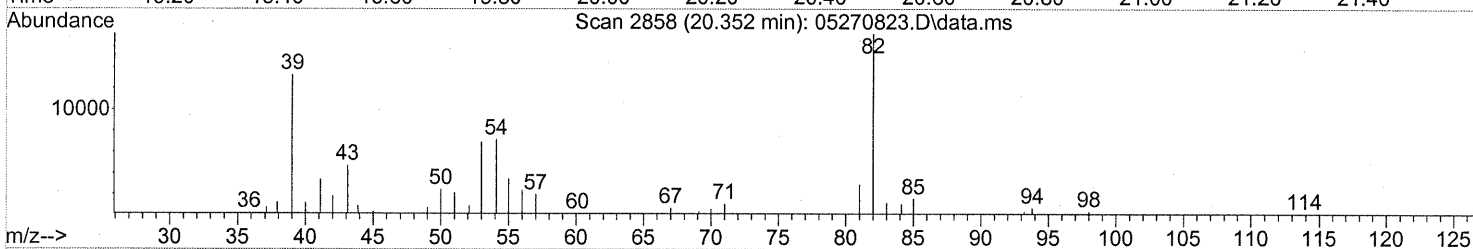
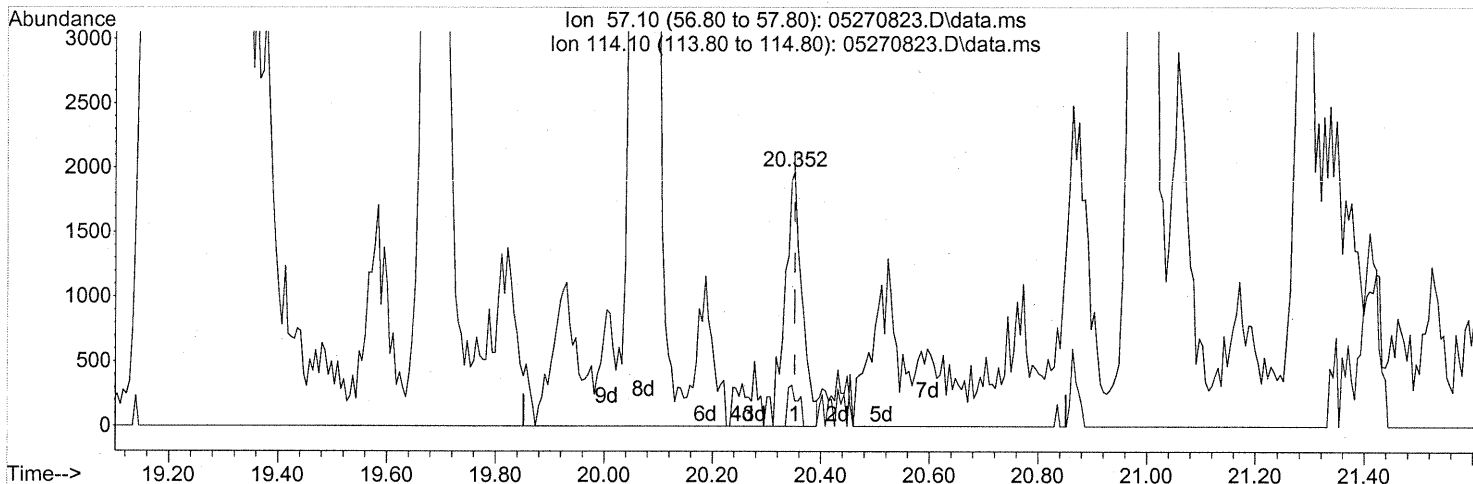
| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 42.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1214

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(63) n-Octane (T)
 20.352min (-0.000) 0.15ng
 response 4424

| Ion | Exp% | Act% |
|--------|-------|------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 9.52 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

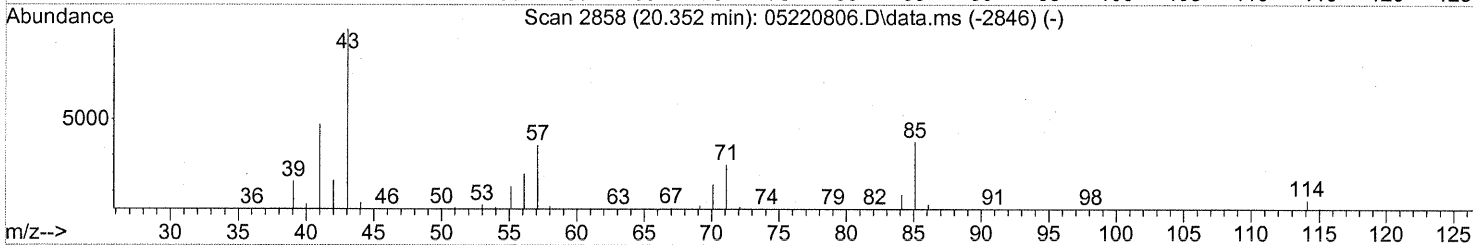
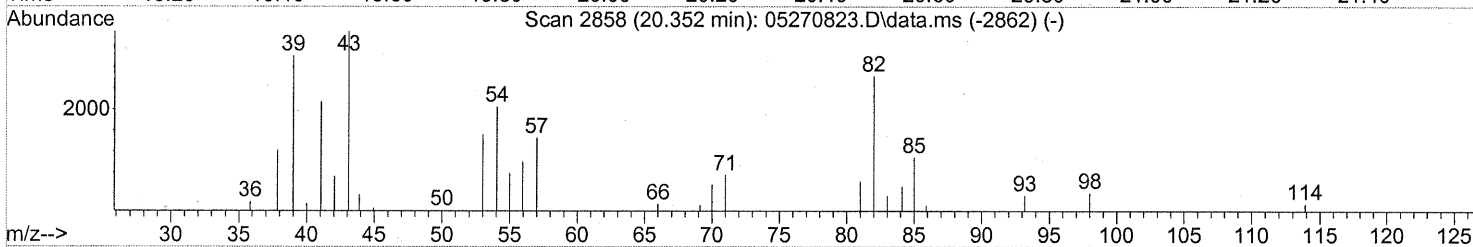
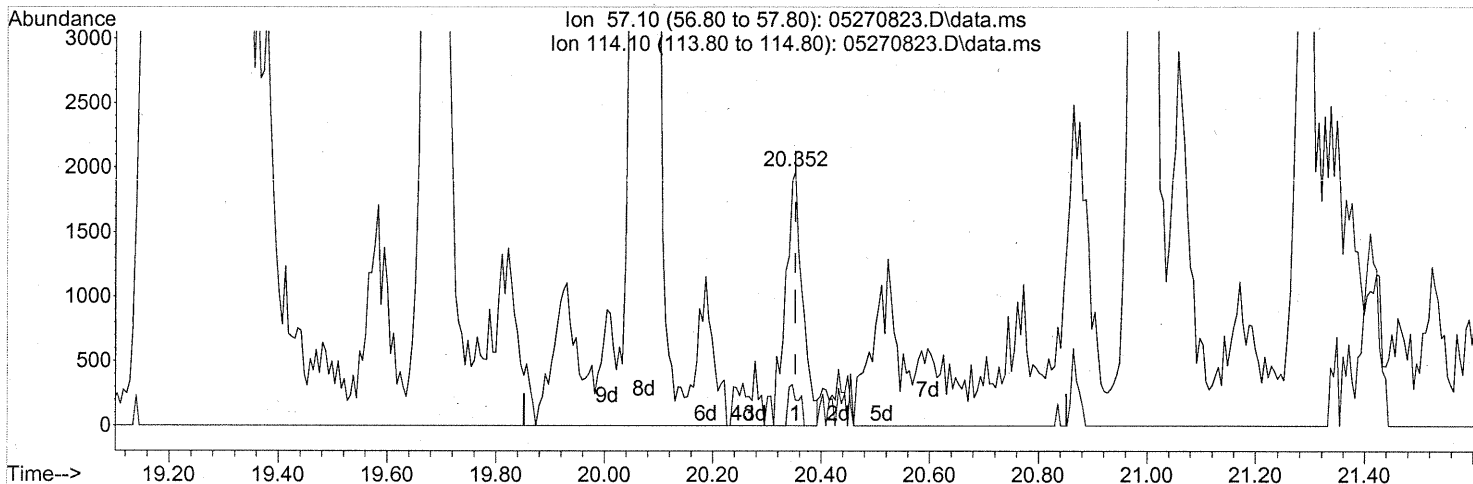
before

1215

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(63) n-Octane (T)
 20.352min (-0.000) 0.15ng
 response 4424

| Ion | Exp% | Act% |
|--------|-------|------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 9.52 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

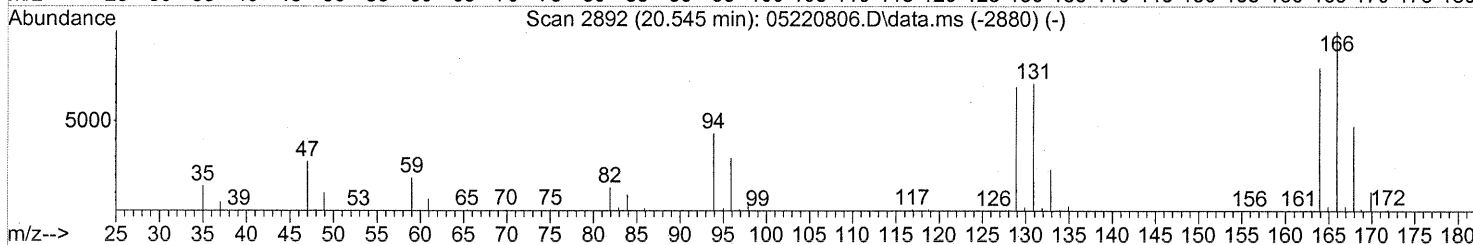
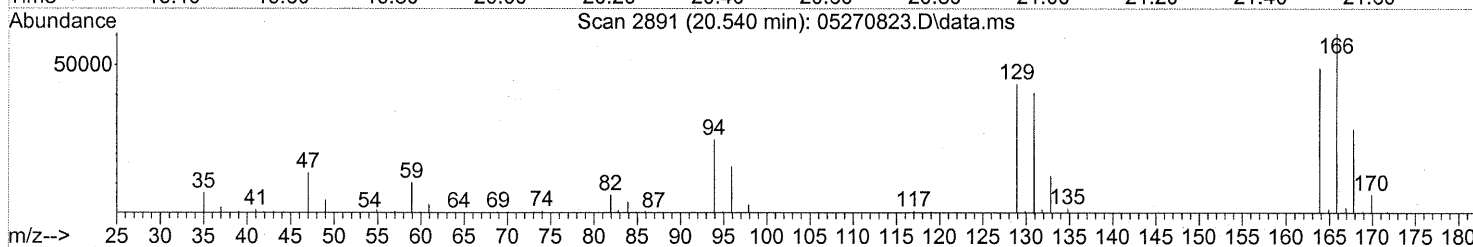
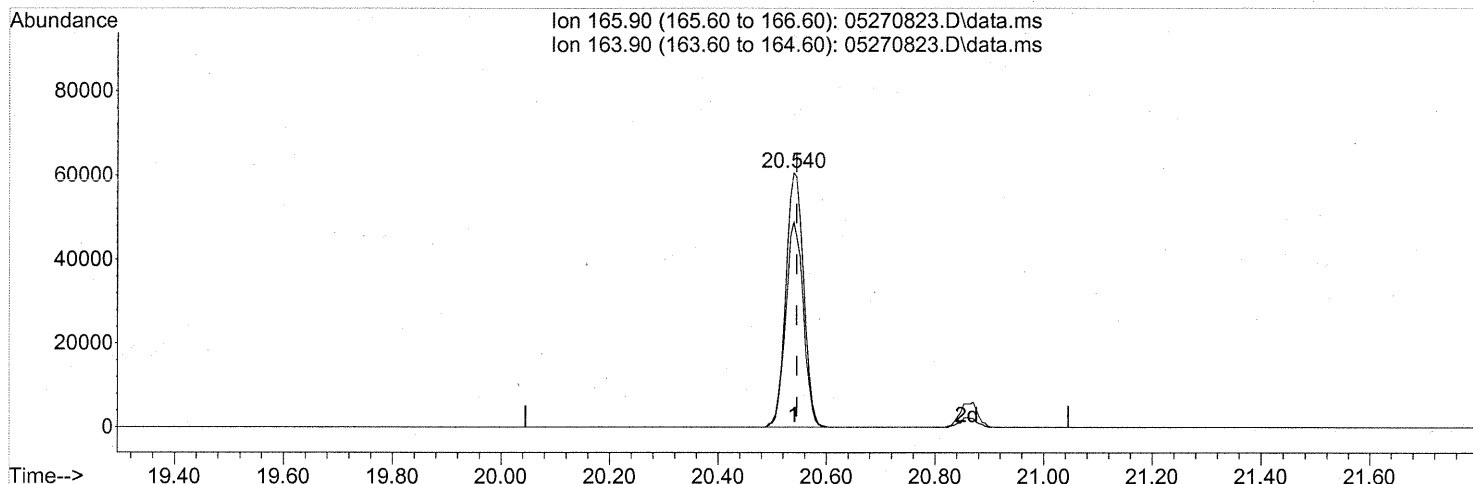
after subst.

DA 6/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 3.44ng

response 138125

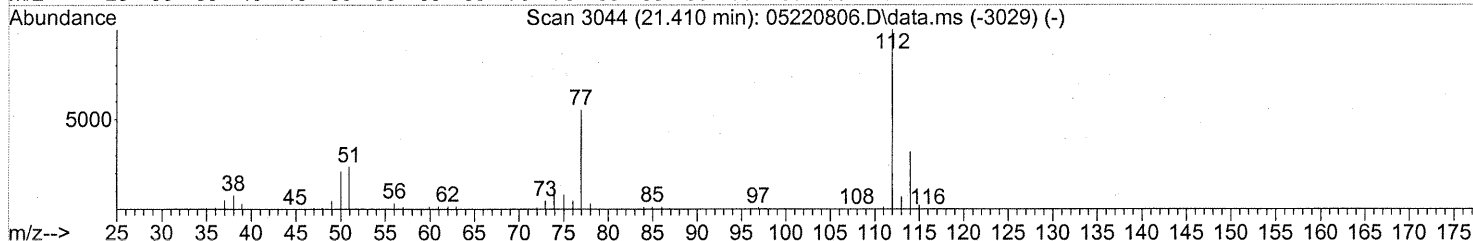
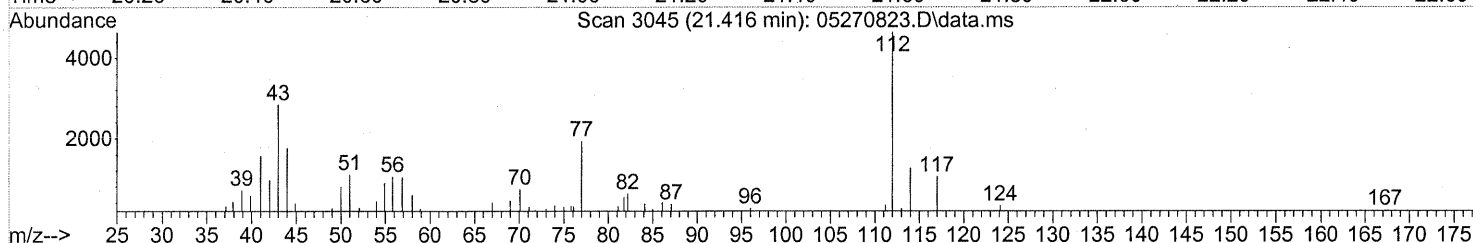
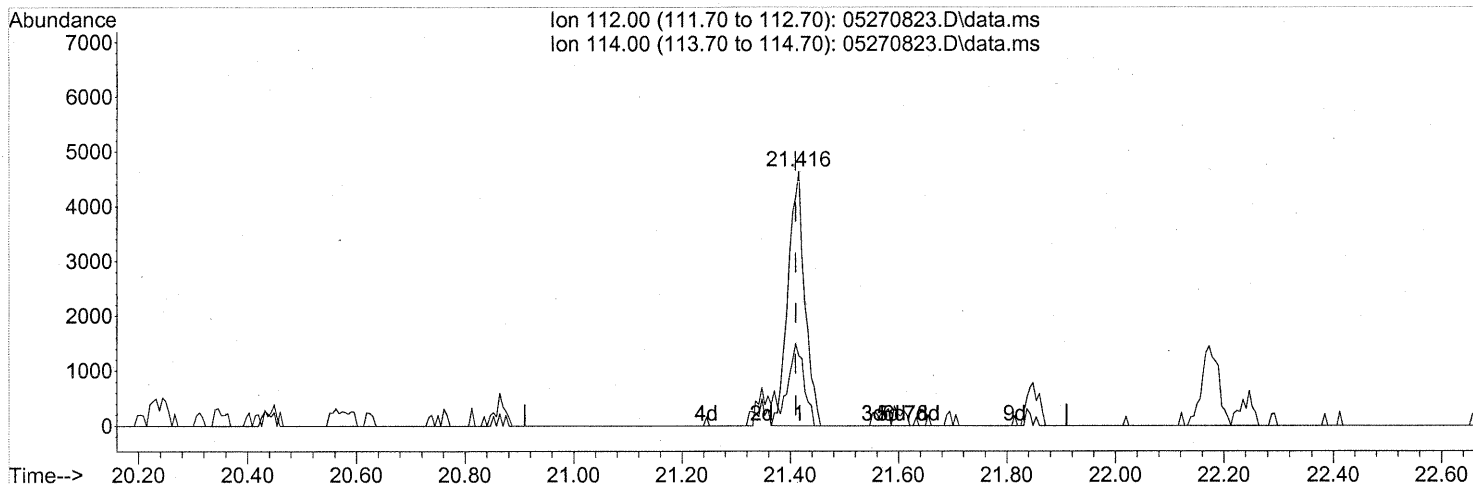
| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 79.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1217

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(65) Chlorobenzene (T)

21.416min (+0.006) 0.11ng

response 9968

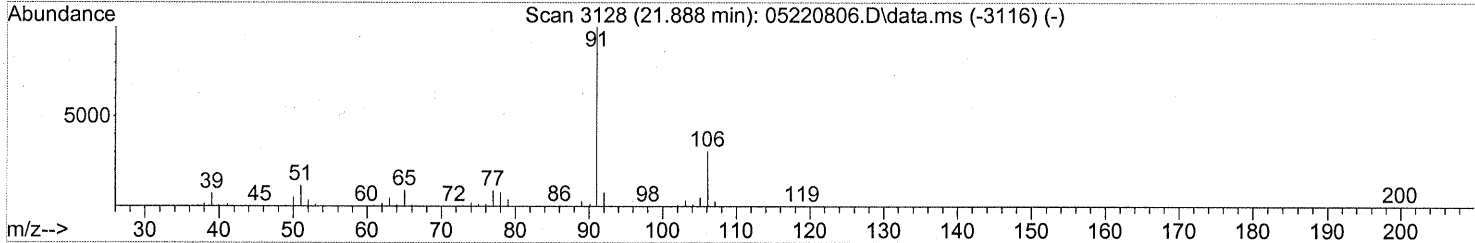
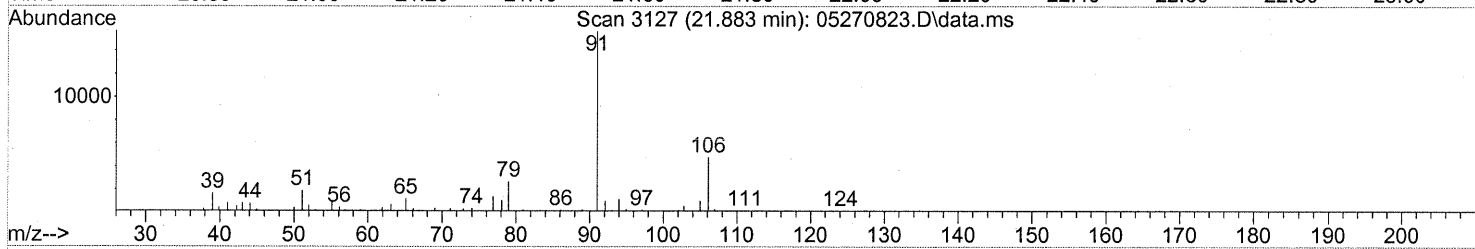
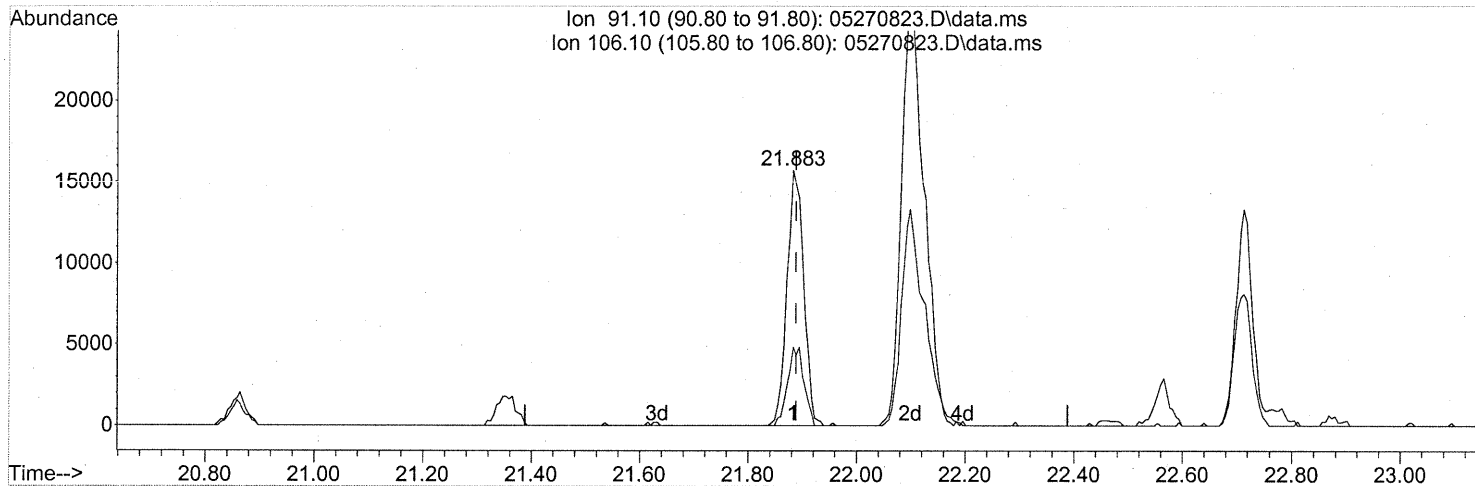
| Ion | Exp% | Act% |
|--------|-------|-------|
| 112.00 | 100 | 100 |
| 114.00 | 32.40 | 29.39 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1218

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(66) Ethylbenzene (T)

21.883min (-0.006) 0.22ng

response 33575

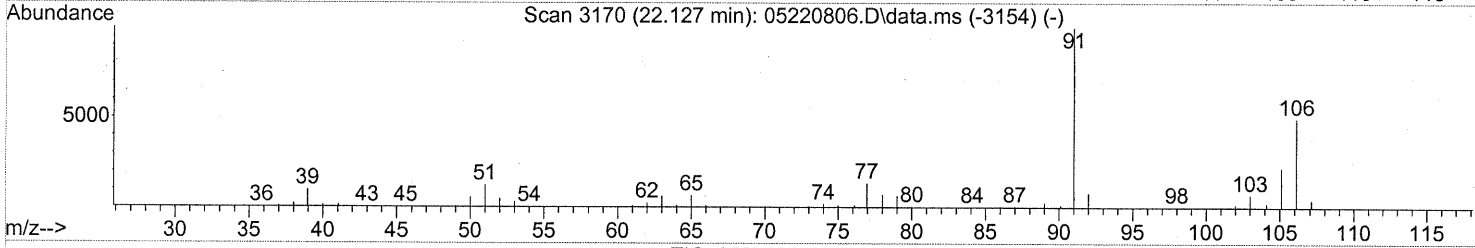
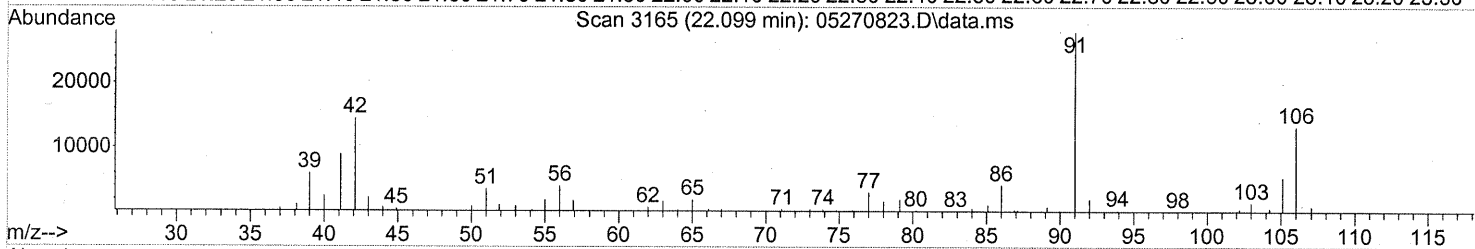
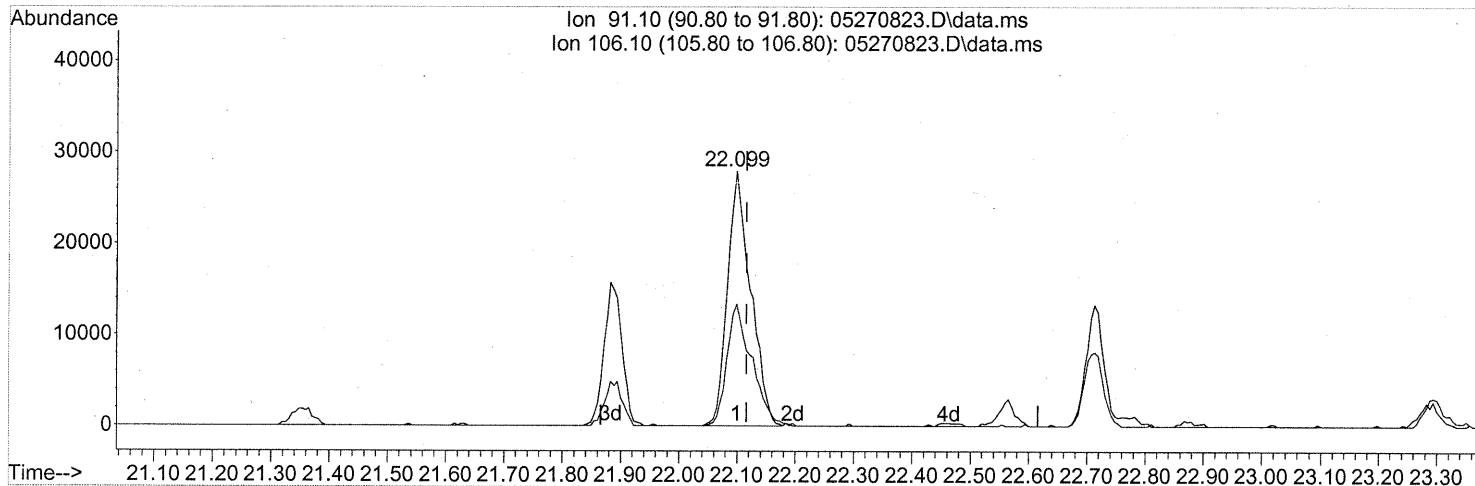
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 34.10 | 30.08 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1219

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(67) m- & p-Xylene (T)
 22.099min (-0.017) 0.74ng
 response 76762

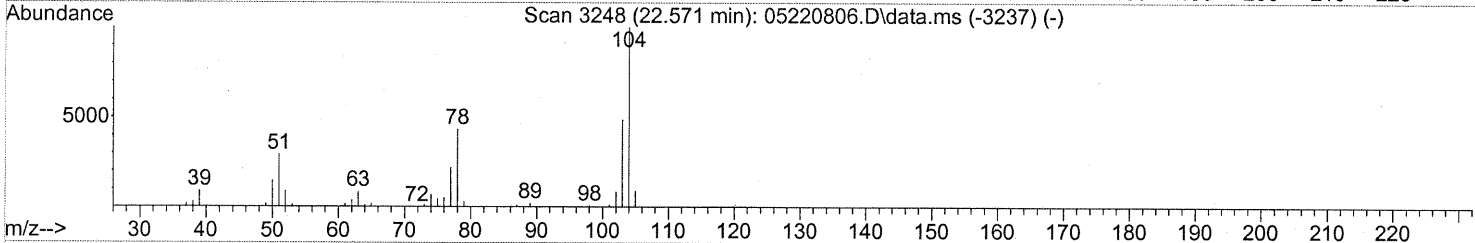
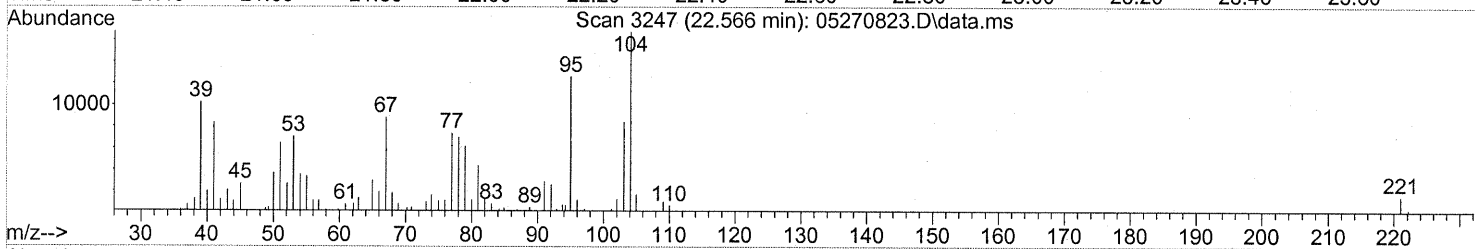
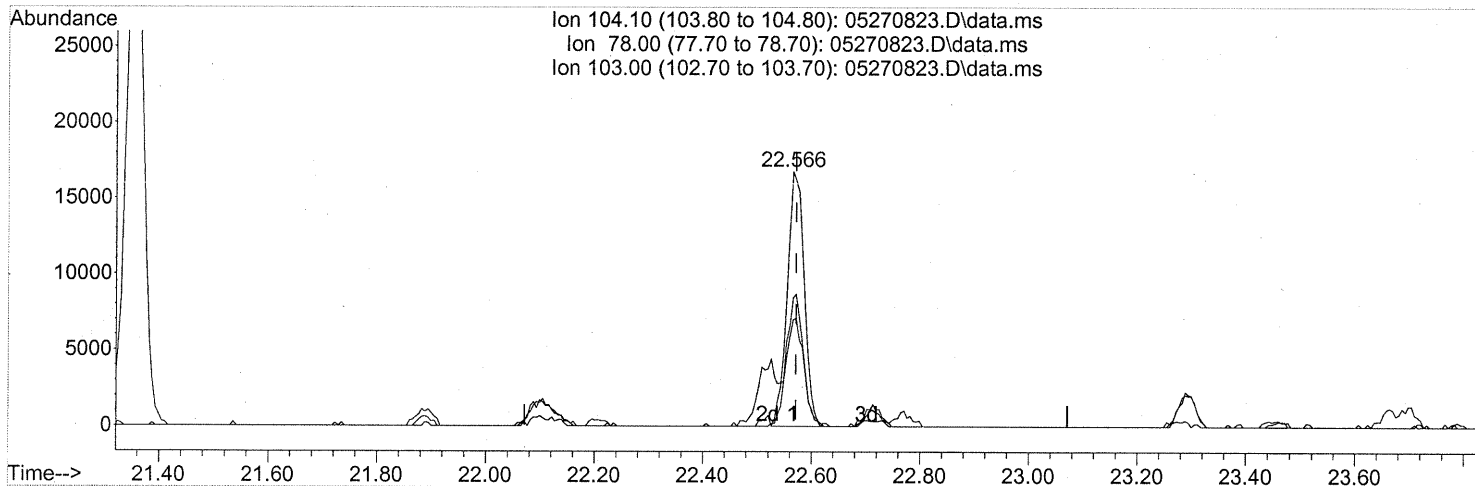
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 50.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1220

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(69) Styrene (T)
 22.566min (-0.006) 0.39ng
 response 36357

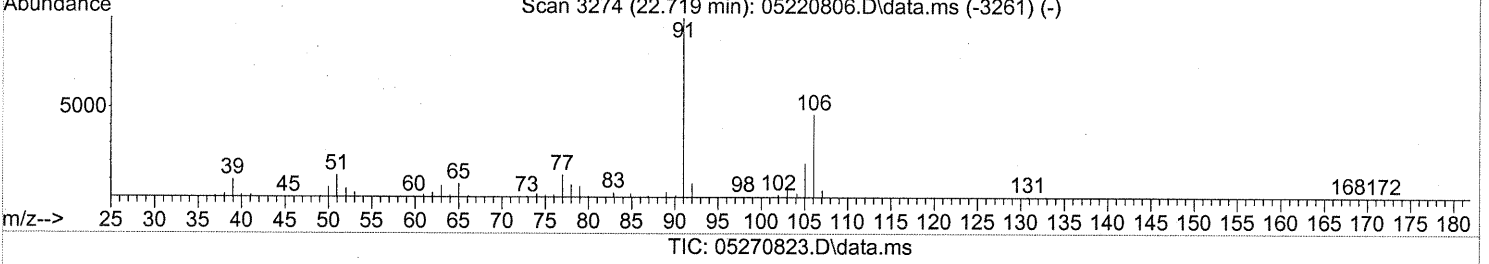
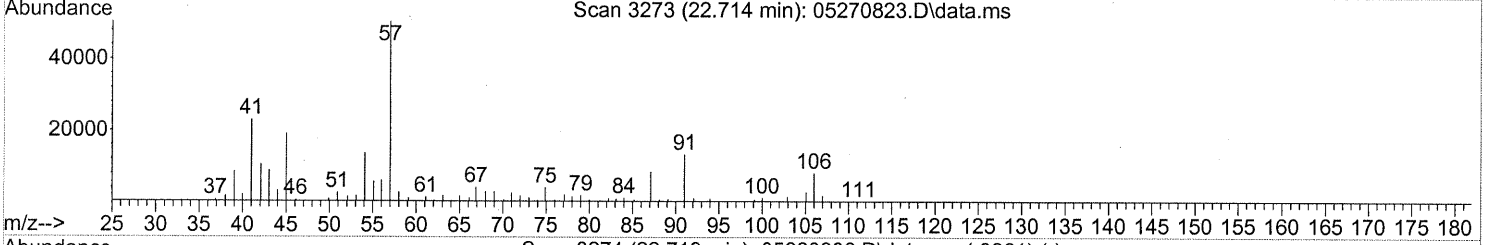
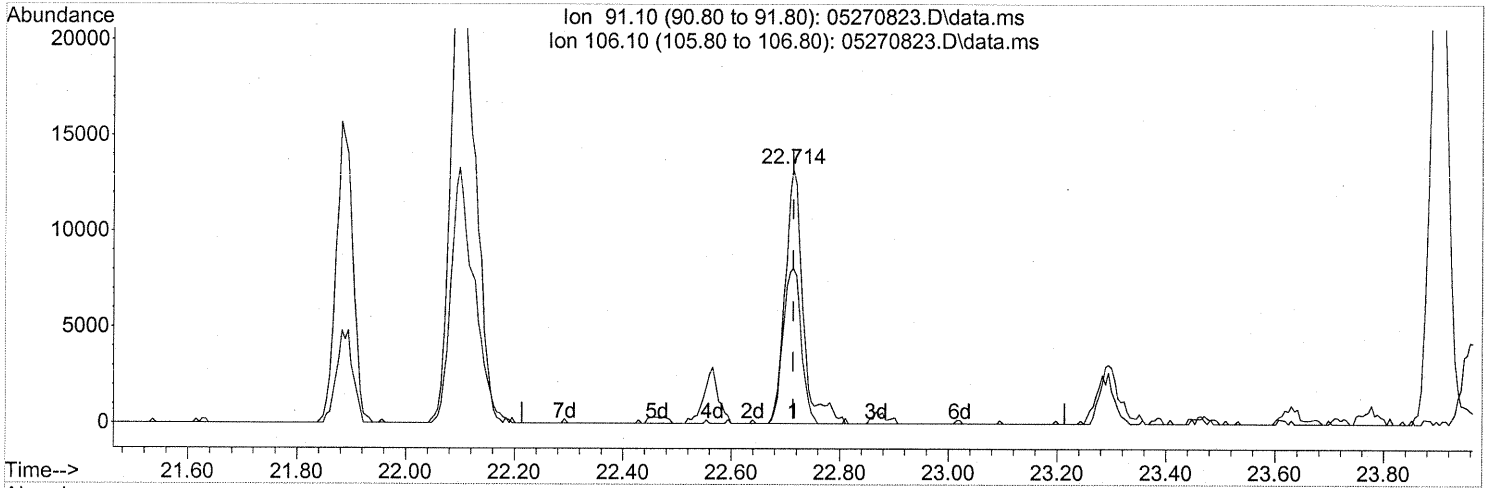
| Ion | Exp% | Act% |
|--------|-------|-------|
| 104.10 | 100 | 100 |
| 78.00 | 39.40 | 44.40 |
| 103.00 | 47.10 | 49.28 |
| 0.00 | 0.00 | 0.00 |

1221

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.714min (-0.000) 0.27ng
 response 30224

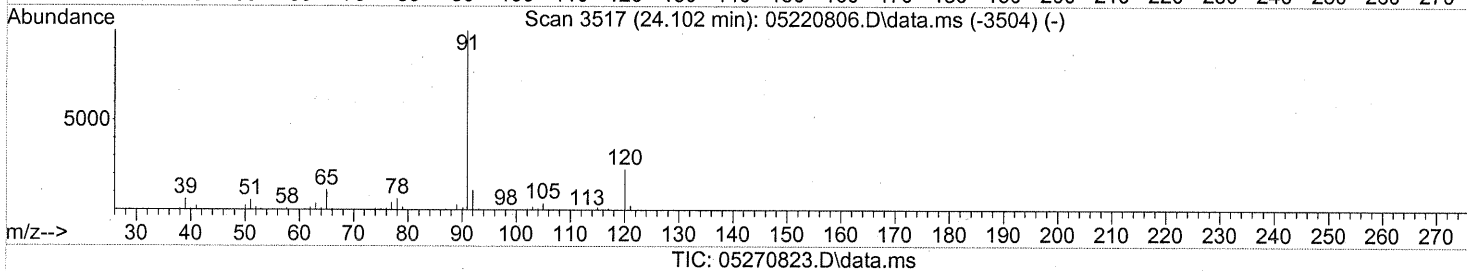
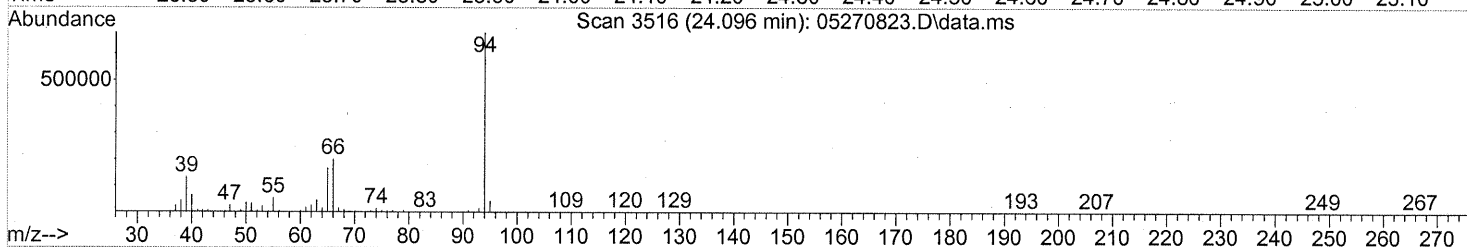
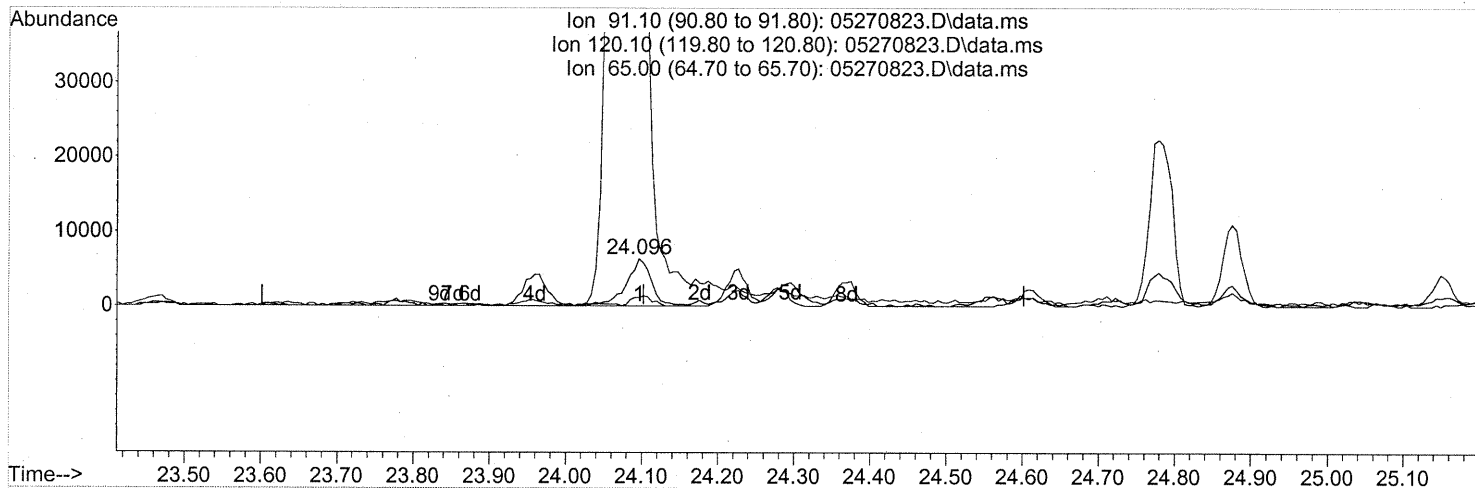
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 61.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1222

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.08ng

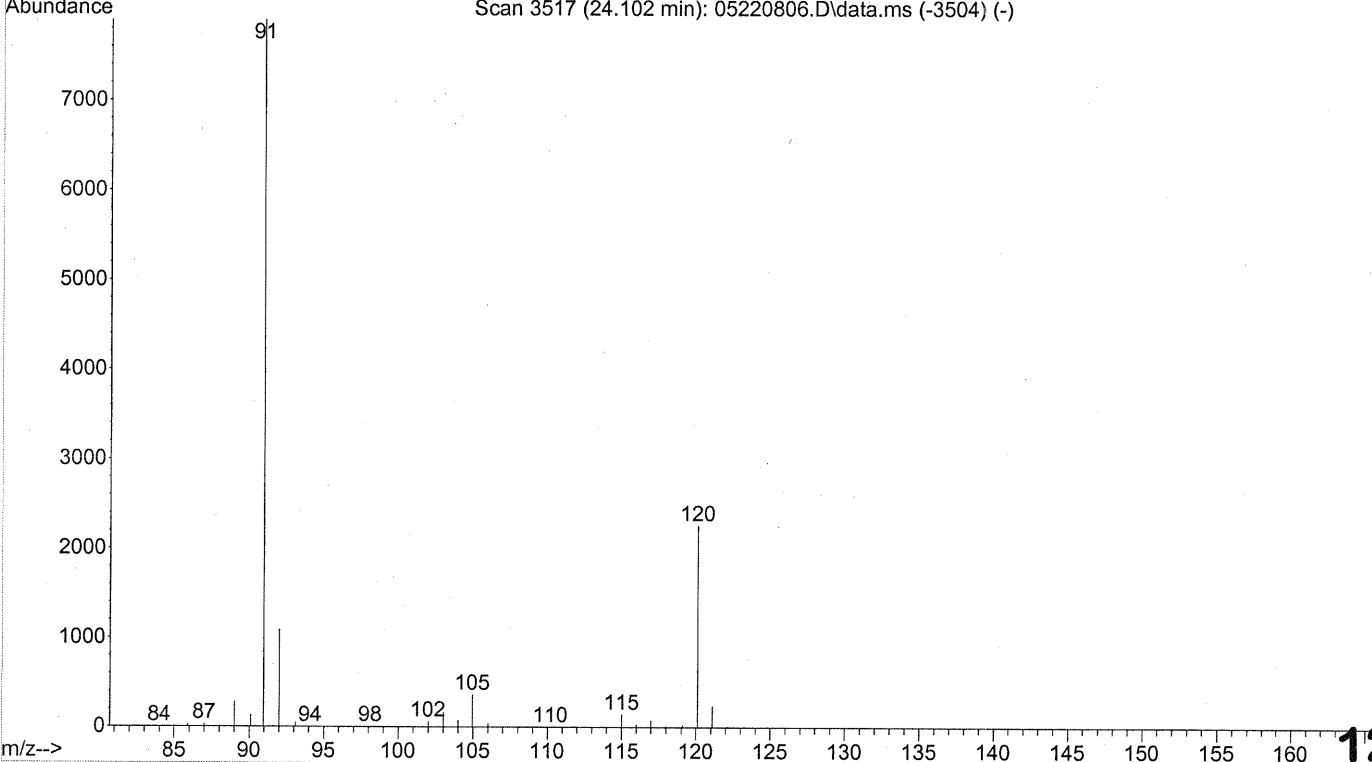
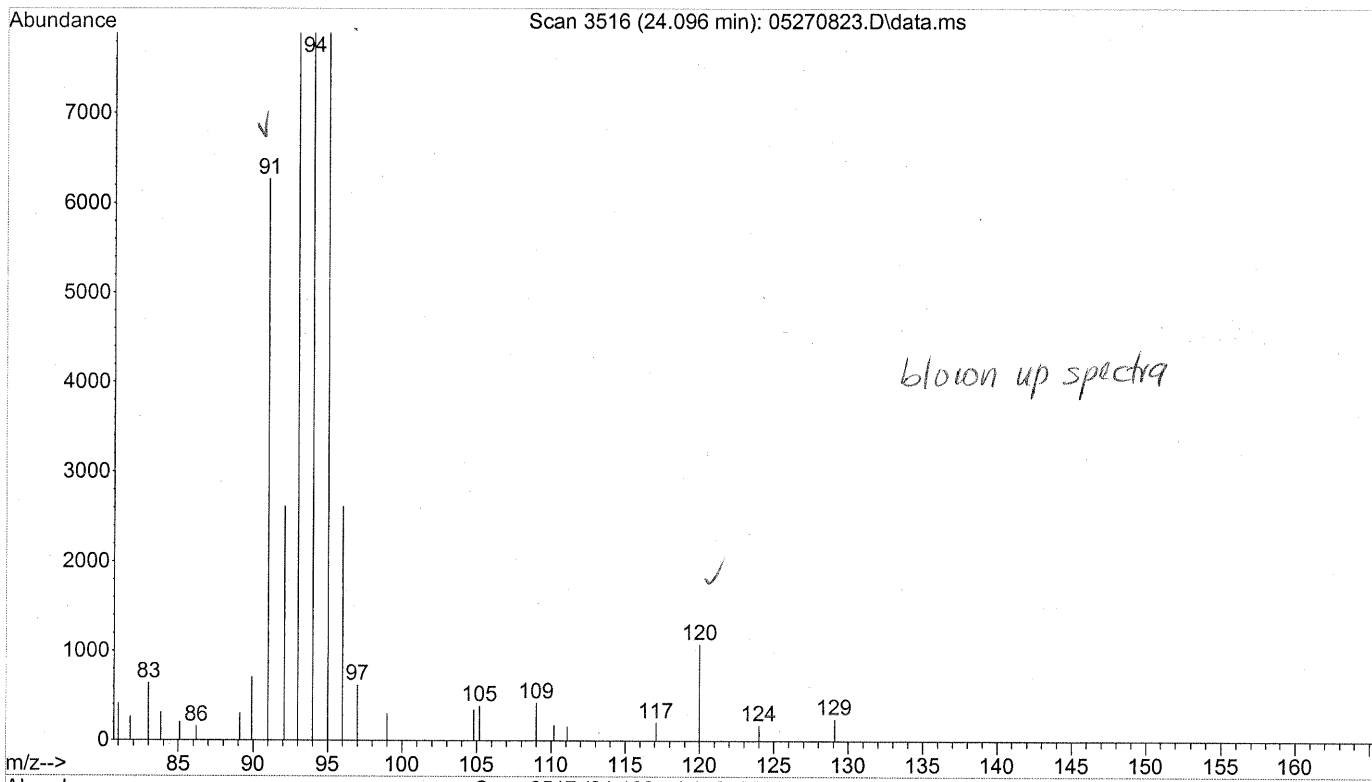
response 14371

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 17.15 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

1223

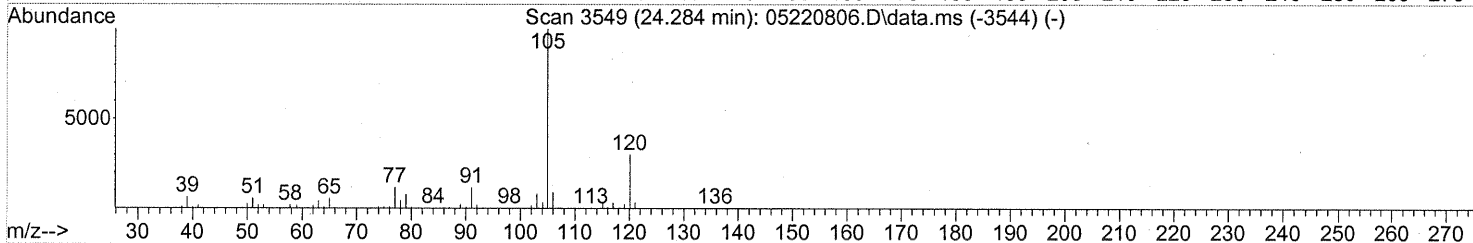
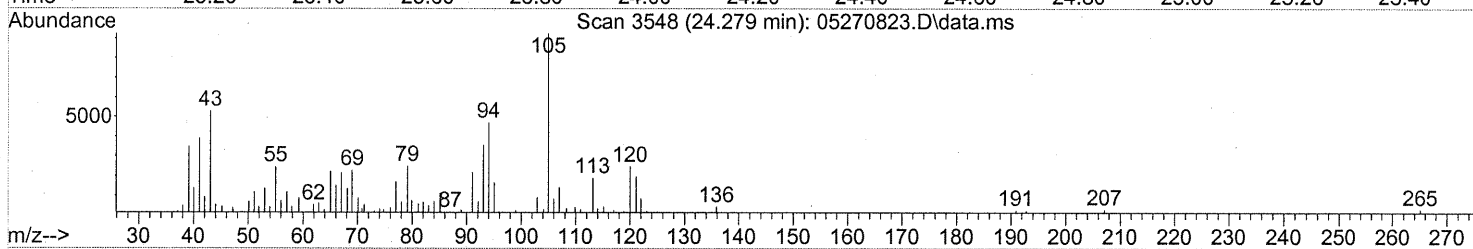
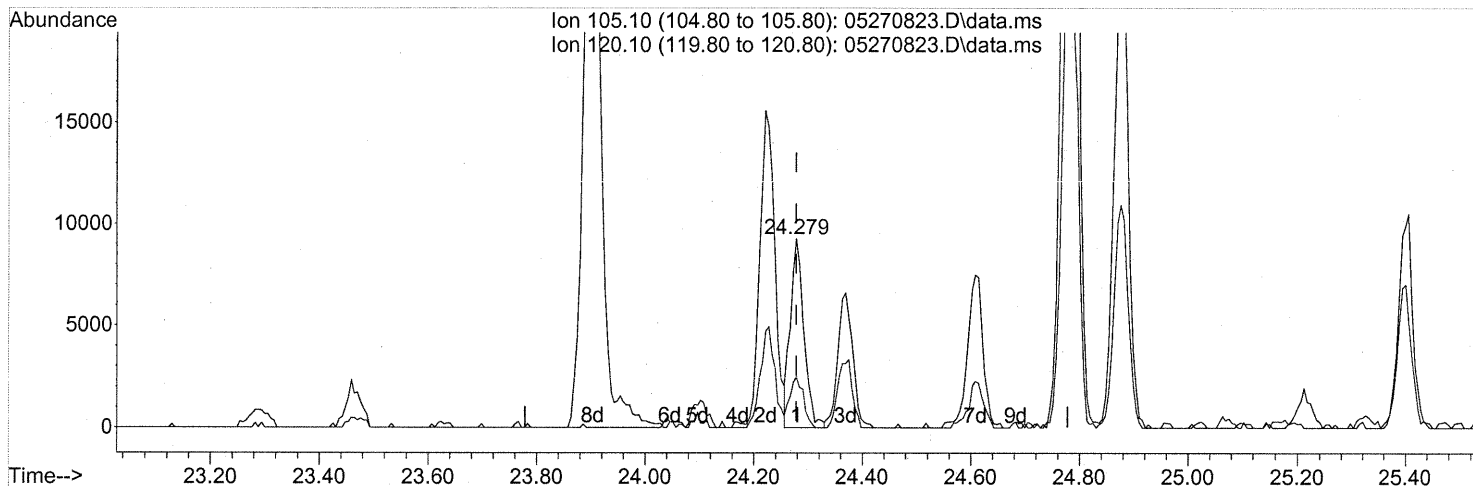
File : J:\MS13\DATA\2008_05\27\05270823.D
Operator : WA
Acquired : 28 May 2008 1:14 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-026 (1000ml)
Misc Info : ENSR SG10B-05 (-2.8, 3.8)
Vial Number: 9



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

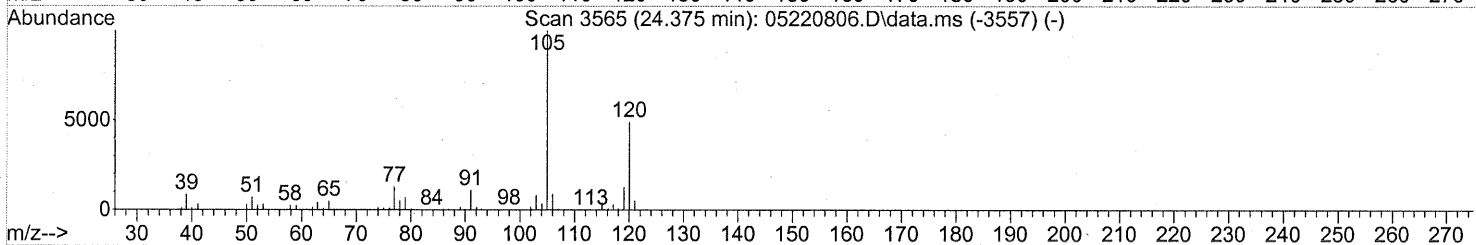
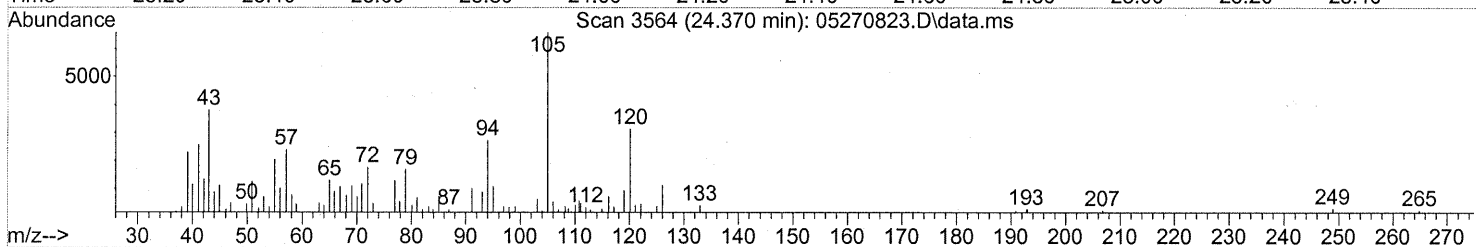
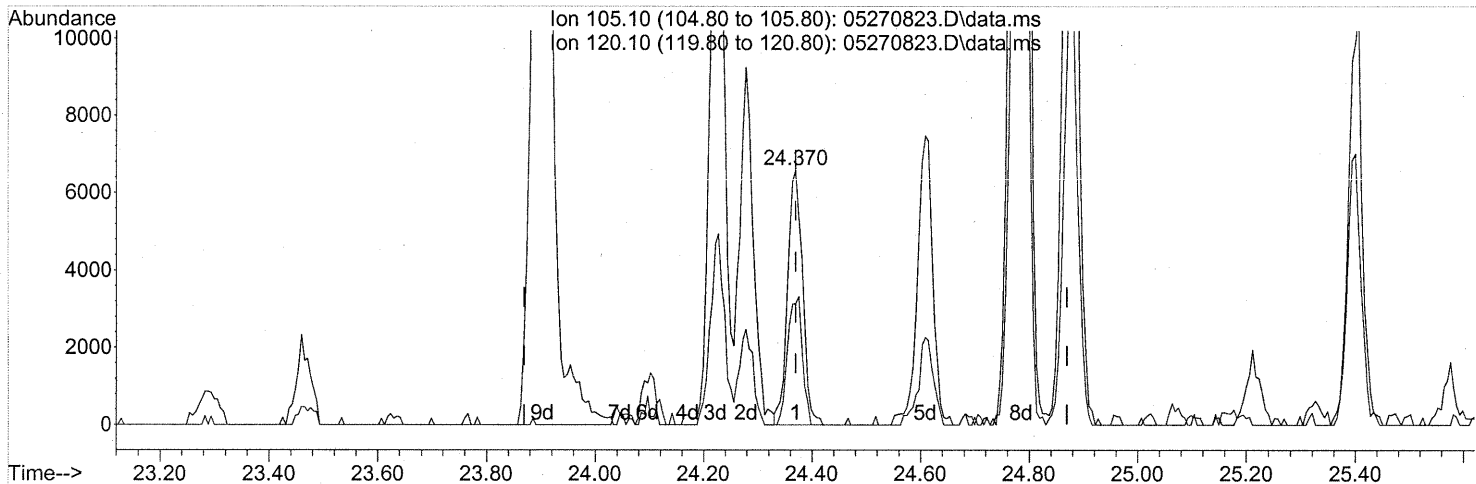
(78) 4-Ethyltoluene (T)
 24.279min (-0.000) 0.11ng
 response 15871

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 26.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.370min (-0.000) 0.09ng

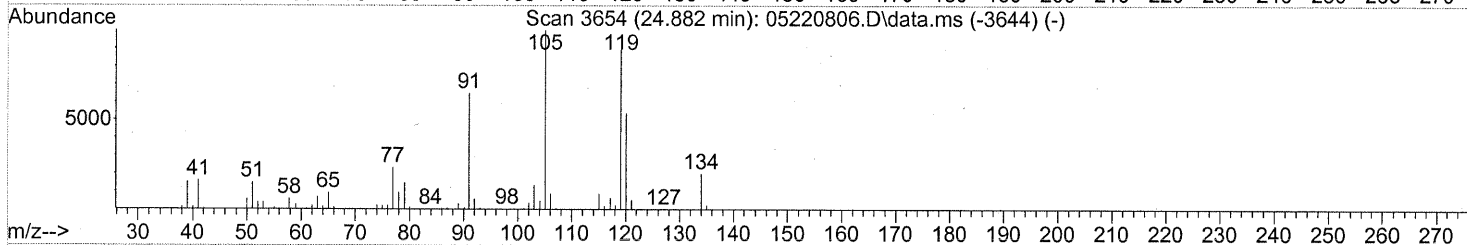
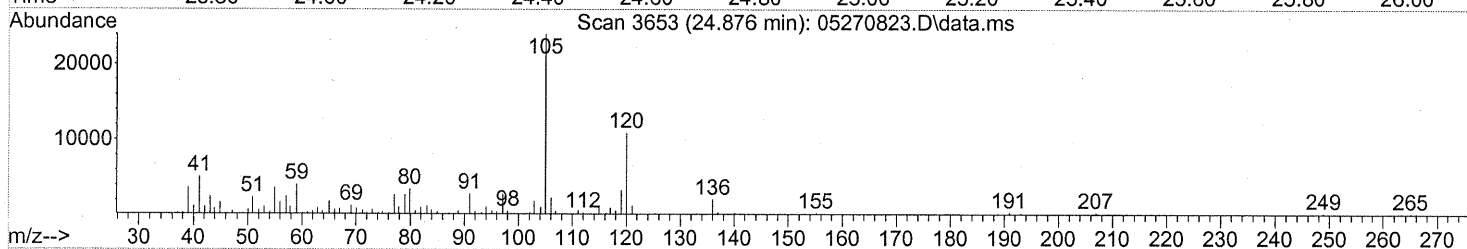
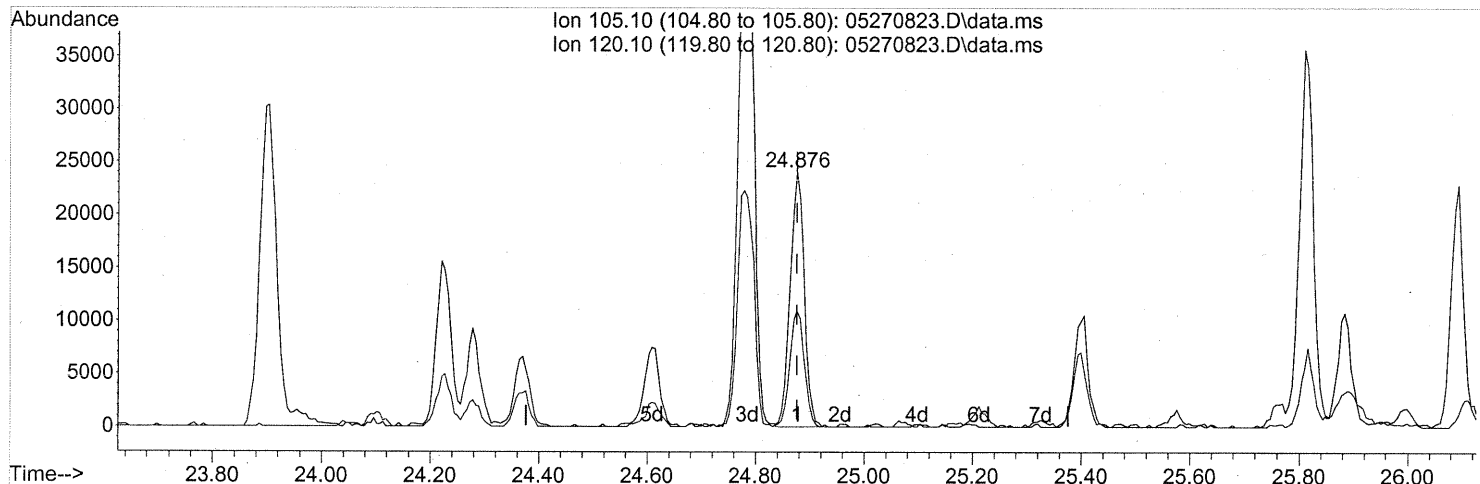
response 12594

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 49.40 | 49.12 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.31ng

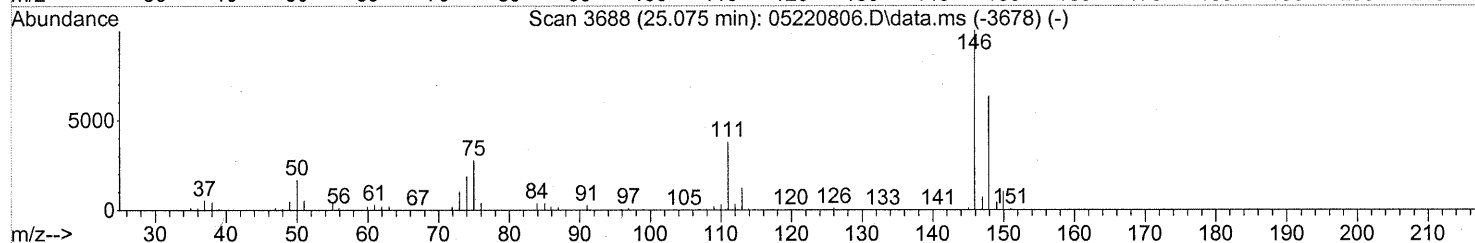
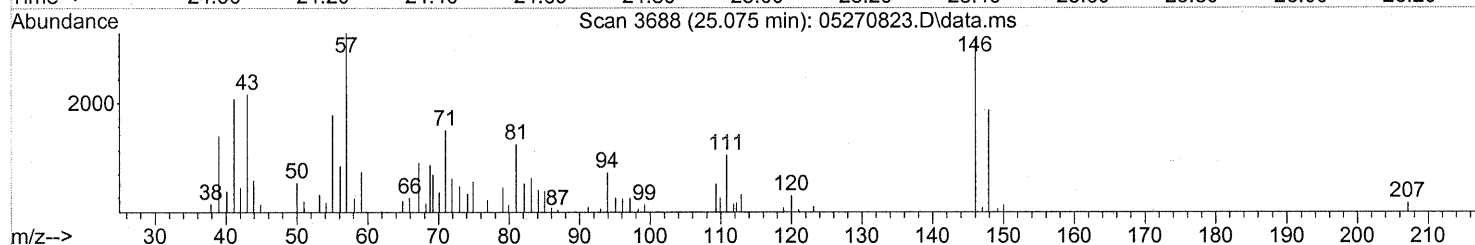
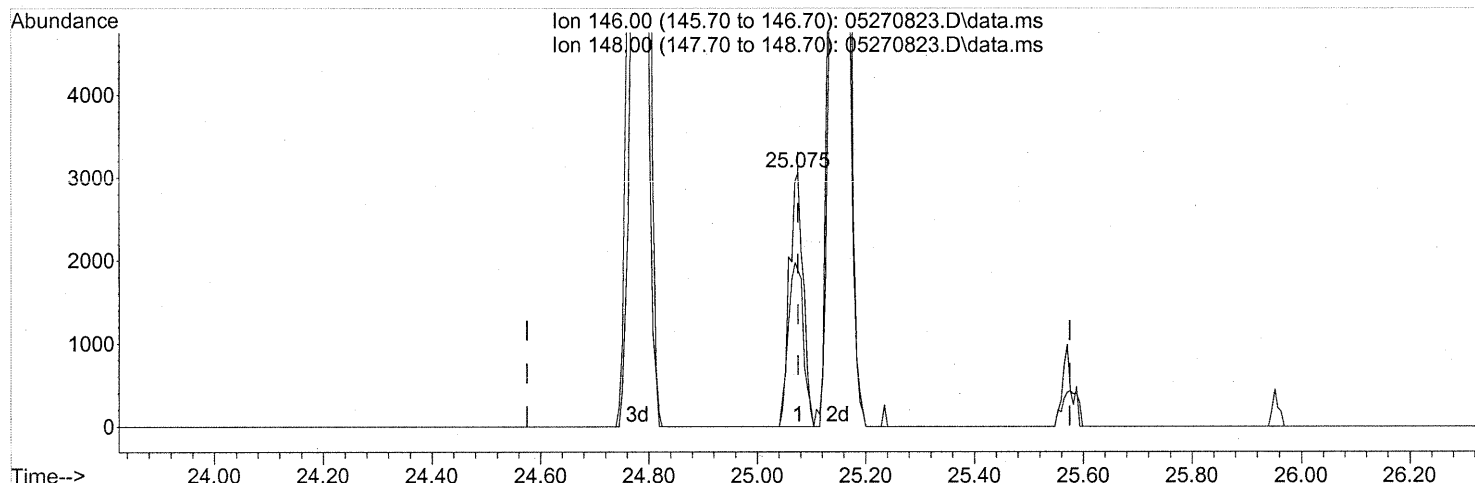
response 42689

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 46.89 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.075min (-0.000) 0.06ng

response 5367

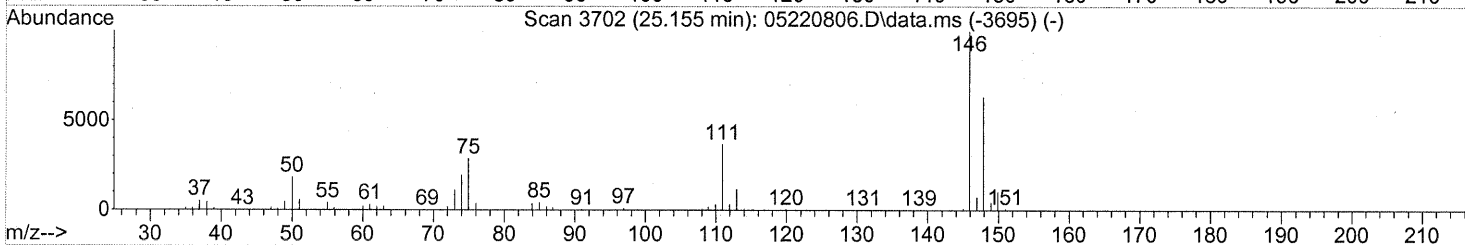
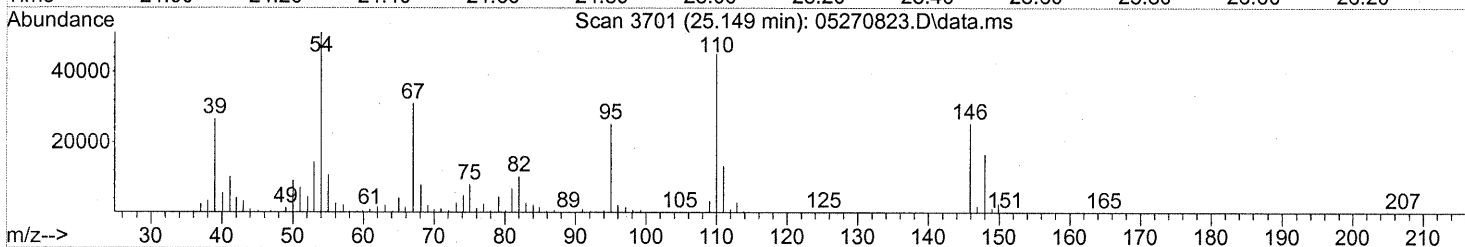
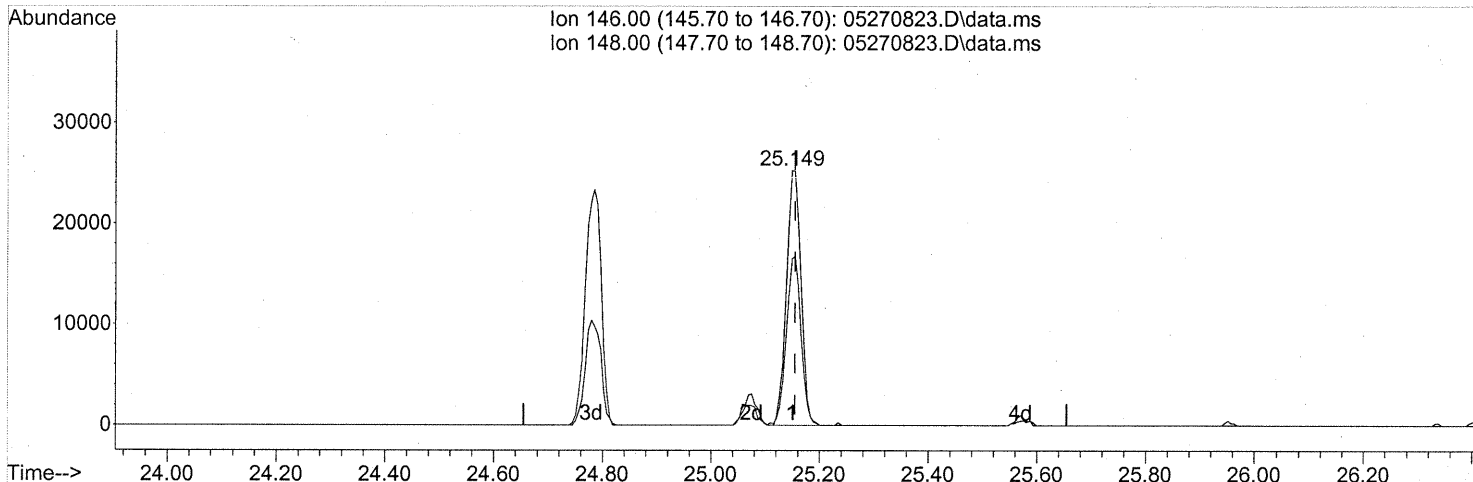
| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.00 | 70.60 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1228

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.56ng

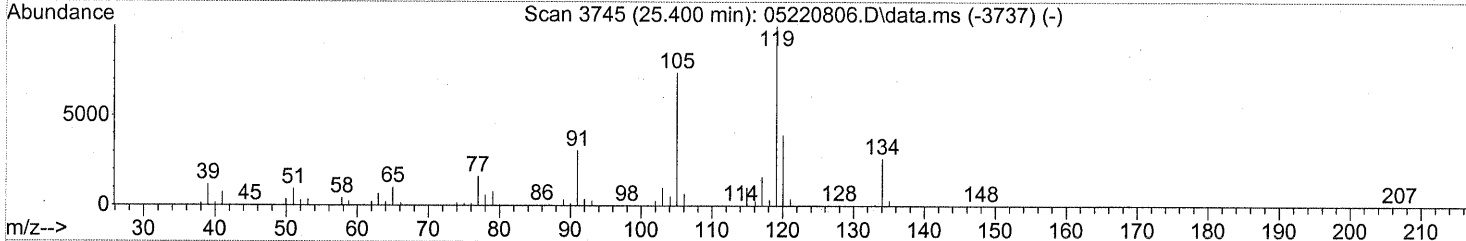
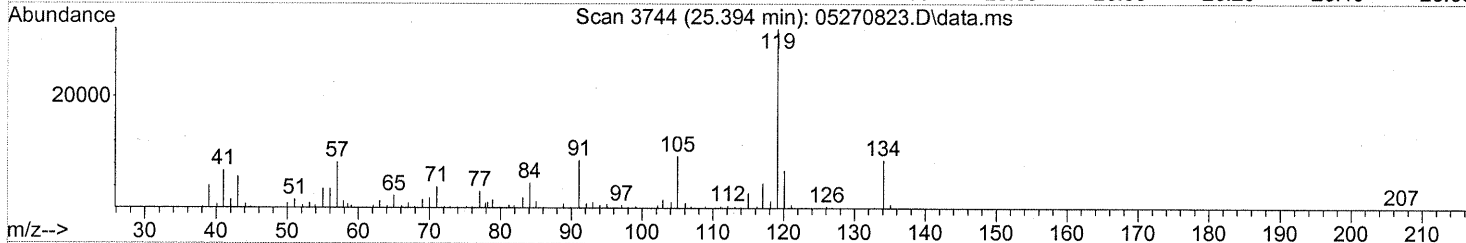
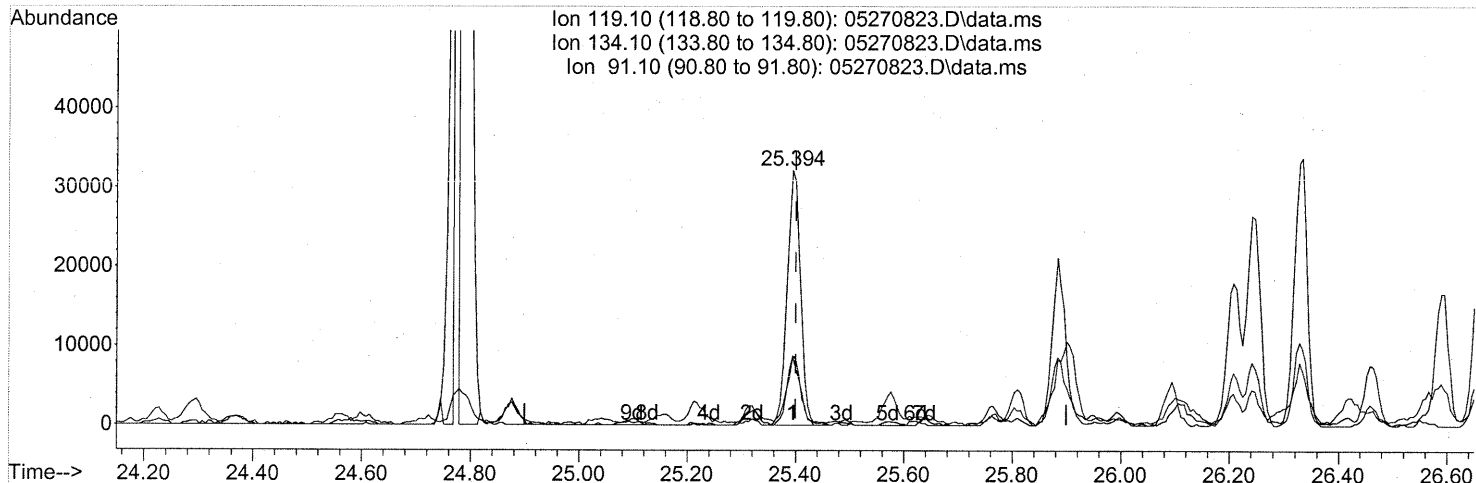
response 46695

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 66.72 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.38ng

response 54566

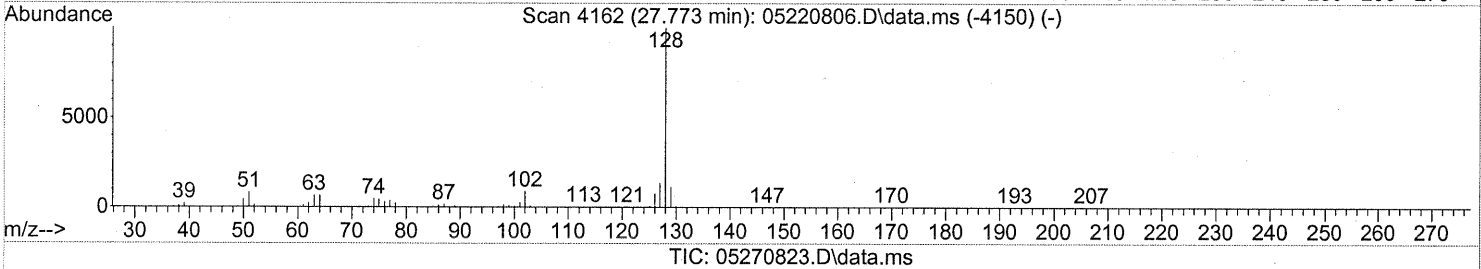
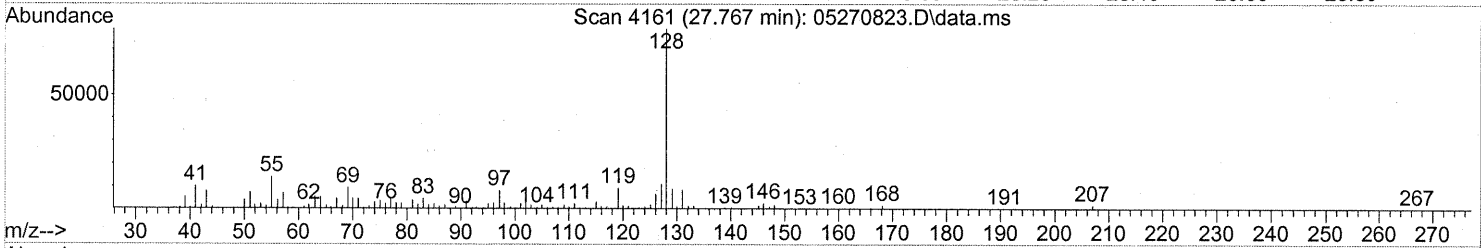
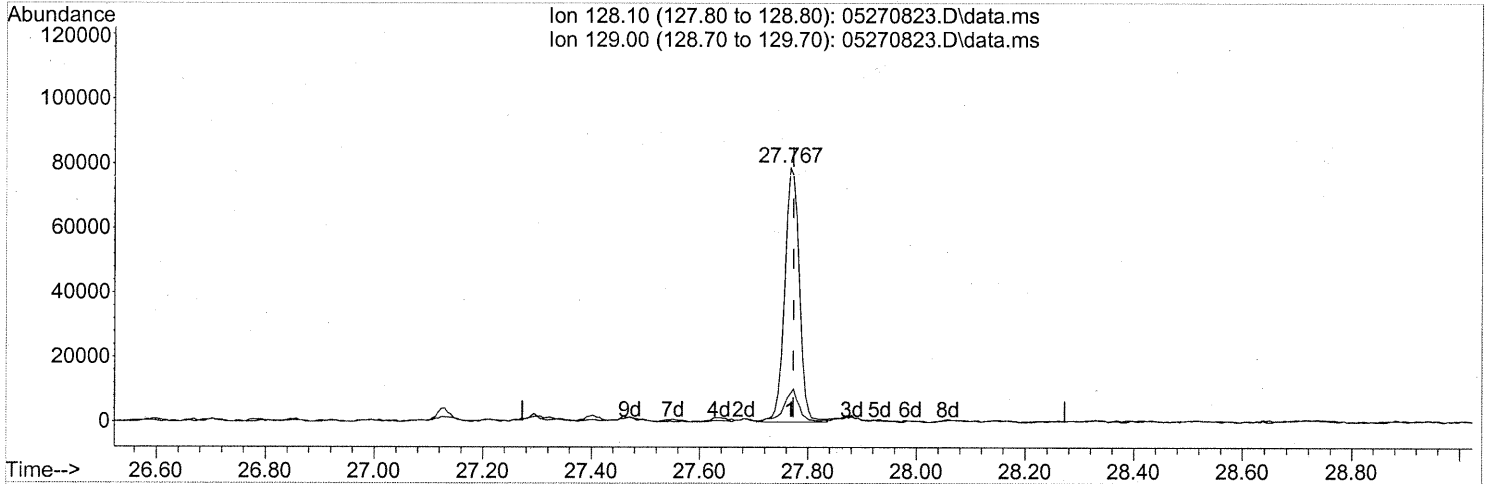
| Ion | Exp% | Act% |
|--------|-------|-------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 27.54 |
| 91.10 | 27.10 | 28.52 |
| 0.00 | 0.00 | 0.00 |

1230

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 1:14
Operator : WA
Sample : P0801483-026 (1000ml)
Misc : ENSR SG10B-05 (-2.8, 3.8)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:14:03 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



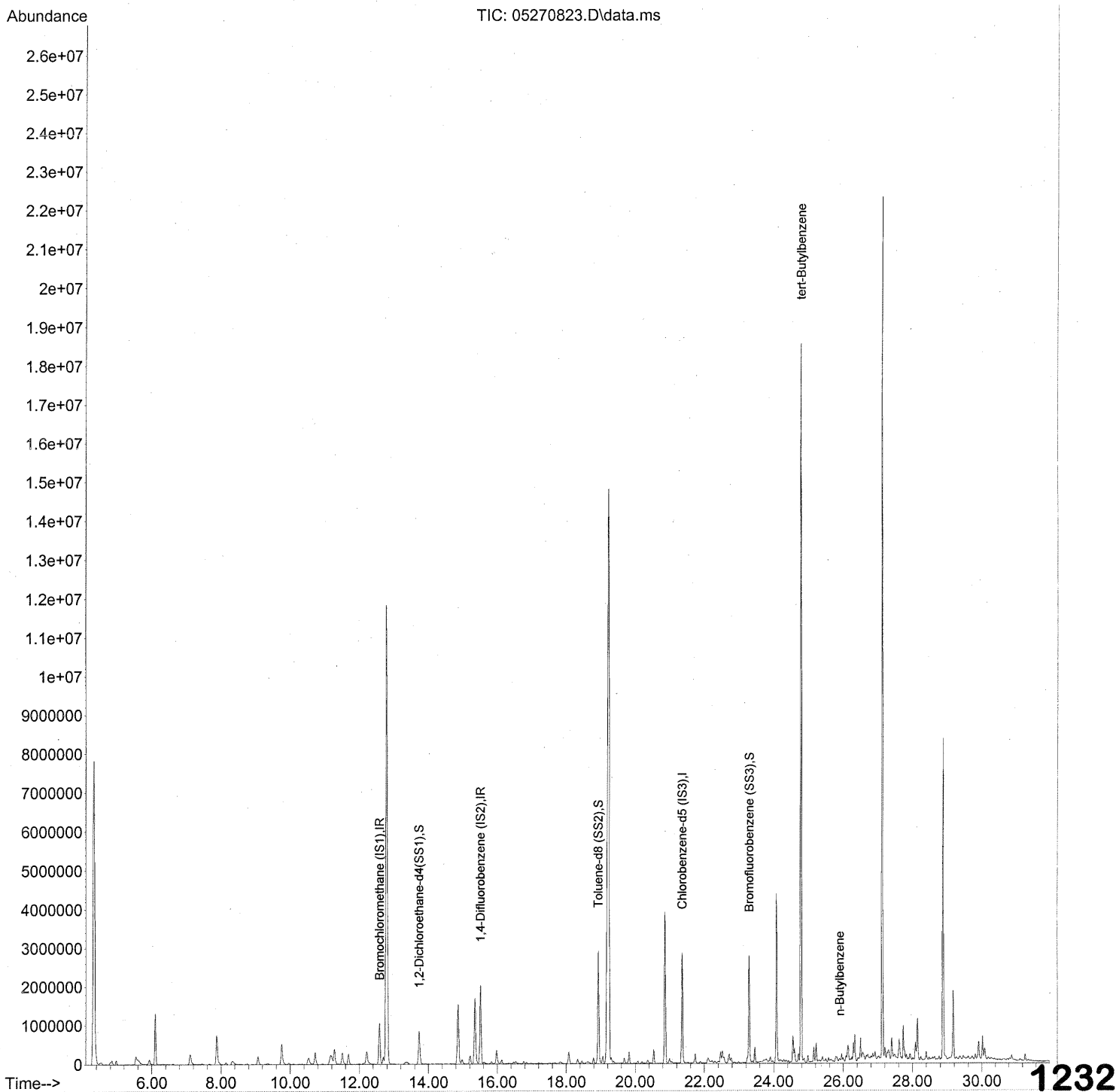
(95) Naphthalene (T)
27.767min (-0.006) 0.82ng
response 148227

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 12.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1231

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 1:14 am
Operator : WA
Sample : P0801483-026 (1000ml)
Misc : ENSR SG10B-05 (-2.8, 3.8)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 13:13:07 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



1232

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14 am
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 13:13:07 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

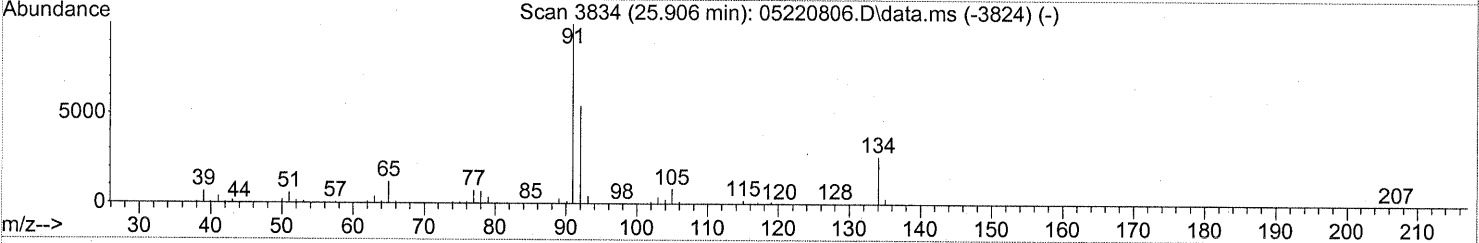
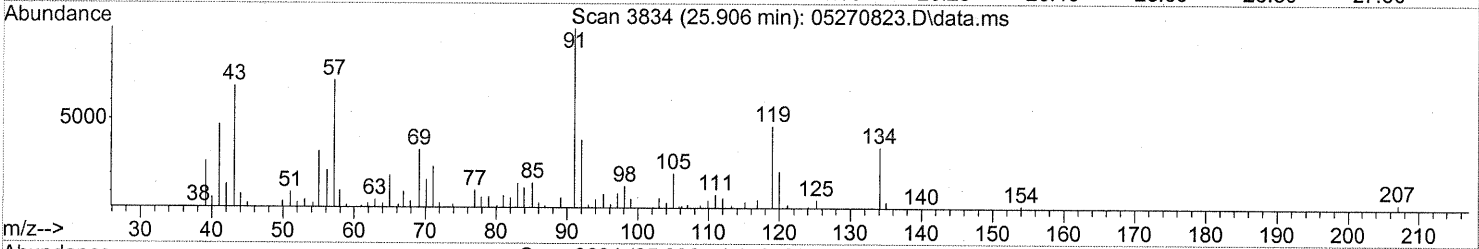
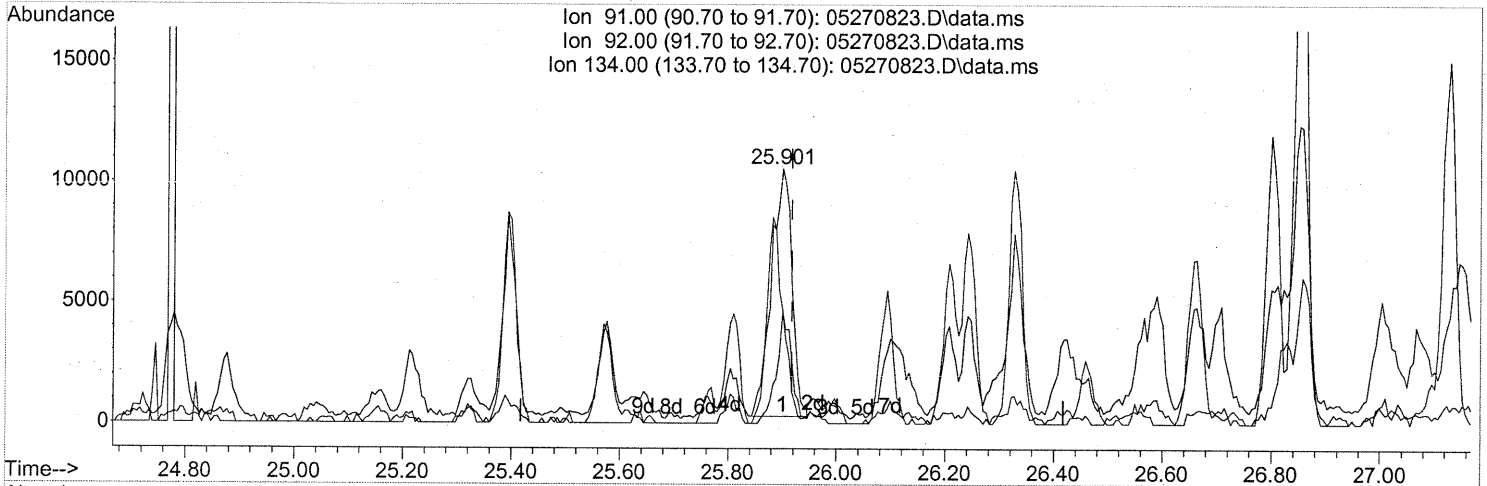
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------------------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 570758 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2408496 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1112436 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 881101 | 22.279 | ng | -0.02 |
| Spiked Amount | 25.000 | | | Recovery | = | 89.12% |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2479858 | 24.821 | ng | -0.01 |
| Spiked Amount | 25.000 | | | Recovery | = | 99.28% |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 1048278 | 25.802 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 103.20% |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.79 | 119 | 389429 | 2.981 ng | UR | 97 |
| 8) n-Butylbenzene | 25.90 | 91 | 26568 | 0.184 ng | // # | 55 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270823.D
 Acq On : 28 May 2008 1:14
 Operator : WA
 Sample : P0801483-026 (1000ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 02 17:24:26 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05270823.D\data.ms

(8) n-Butylbenzene

25.901min (-0.017) 0.18ng

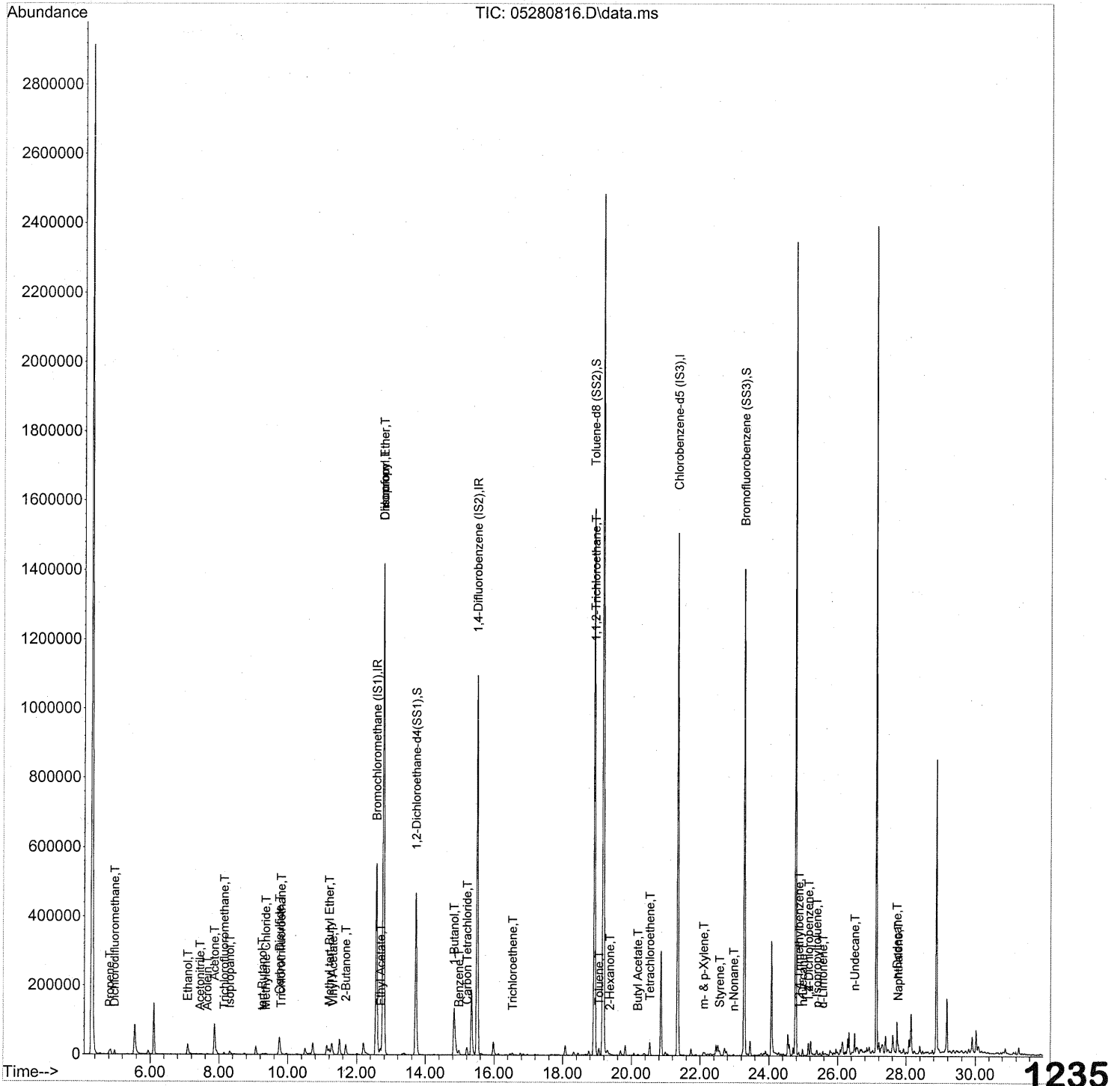
response 26568

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 33.46# |
| 134.00 | 28.80 | 66.97# |
| 0.00 | 0.00 | 0.00 |

1234

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280816.D
 Acq On : 28 May 2008 21:23
 Operator : WA
 Sample : P0801483-026 Dil (200ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 04:16:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280816.D
 Acq On : 28 May 2008 21:23
 Operator : WA
 Sample : P0801483-026 Dil (200ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 04:16:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 292578 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1283425 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 590099 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 484025 | 23.876 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 95.52% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1328200 | 25.062 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.24% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 542204 | 25.159 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.64% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.83 | 42 | 4922 | 0.213 | ng | # 36 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 11740 | 0.276 | ng | 97 |
| 4) Chloromethane | 5.31 | 50 | 151 | N.D. | | |
| 5) Freon 114 | 5.54 | 135 | 147 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 6.02 | 54 | 387 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.10 | 45 | 55196 | 3.588 | ng | 91 |
| 11) Acetonitrile | 7.45 | 41 | 4381 | 0.098 | ng | # 61 |
| 12) Acrolein | 7.66 | 56 | 1959 | 0.178 | ng | 91 |
| 13) Acetone | 7.87 | 58 | 50543 | 3.209 | ng | 86 |
| 14) Trichlorofluoromethane | 8.15 | 101 | 5447 | 0.149 | ng | 98 |
| 15) Isopropanol | 8.32 | 45 | 19557 | 0.389 | ng | 97 |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.26 | 59 | 5429 | 0.127 | ng | 91 |
| 19) Methylene Chloride | 9.36 | 84 | 935 | 0.053 | ng | 93 |
| 20) Allyl Chloride | 9.41 | 41 | 108 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 971 | 0.058 | ng | 91 |
| 22) Carbon Disulfide | 9.76 | 76 | 118873 | 1.780 | ng | 100 |
| 23) trans-1,2-Dichloroethene | 10.74 | 61 | 259 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.21 | 73 | 17987 | 0.353 | ng | 85 |
| 26) Vinyl Acetate | 11.31 | 86 | 1382 | 0.475 | ng | # 45 |
| 27) 2-Butanone | 11.68 | 72 | 12180 | 1.060 | ng | # 88 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 228 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 157018 | 11.147 | ng | # 1 |
| 30) Ethyl Acetate | 12.70 | 61 | 3314 | 0.534 | ng | 88 |
| 31) n-Hexane | 12.70 | 57 | 808 | N.D. | | |

1236

PA 6/2/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280816.D
 Acq On : 28 May 2008 21:23
 Operator : WA
 Sample : P0801483-026 Dil (200ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 04:16:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 1512840 | 56.704 | ng | 100 |
| 34) Tetrahydrofuran | 13.39 | 72 | 515 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.72 | 62 | 115 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.84 | 56 | 133714 | 7.580 | ng | 89 |
| 41) Benzene | 14.98 | 78 | 12878 | 0.192 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 18712 | 0.723 | ng | 100 |
| 43) Cyclohexane | 15.41 | 84 | 592 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 16.45 | 83 | 518 | N.D. | | |
| 47) Trichloroethene | 16.54 | 130 | 2785 | 0.135 | ng | 94 |
| 48) 1,4-Dioxane | 16.32 | 88 | 114 | N.D. | | |
| 49) Isooctane | 16.61 | 57 | 1136 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 16.98 | 71 | 349 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 182 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 114986 | 6.924 | ng | # 8 |
| 58) Toluene | 19.06 | 91 | 19196 | 0.266 | ng | 95 |
| 59) 2-Hexanone | 19.37 | 43 | 2843 | 0.057 | ng | # 71 |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.19 | 43 | 3673 | 0.073 | ng | 86 |
| 63) n-Octane | 20.34 | 57 | 348 | N.D. | | |
| 64) Tetrachloroethene | 20.55 | 166 | 14509 | 0.681 | ng | 97 |
| 65) Chlorobenzene | 21.41 | 112 | 1113 | N.D. | | |
| 66) Ethylbenzene | 21.88 | 91 | 3388 | N.D. | | |
| 67) m- & p-Xylene | 22.10 | 91 | 8249 | 0.149 | ng | 88 |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.57 | 104 | 3729 | 0.075 | ng | 98 |
| 70) o-Xylene | 22.71 | 91 | 2806 | N.D. | | |
| 71) n-Nonane | 22.98 | 43 | 2546 | 0.060 | ng | # 68 |
| 72) 1,1,2,2-Tetrachloroethane | 22.61 | 83 | 52 | N.D. | | |
| 74) Cumene | 23.46 | 105 | 431 | N.D. | | |
| 75) alpha-Pinene | 23.95 | 93 | 1820 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 1425 | N.D. | | |
| 77) 3-Ethyltoluene | 24.22 | 105 | 2988 | N.D. | | |
| 78) 4-Ethyltoluene | 24.28 | 105 | 1660 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 1287 | N.D. | | |

1237

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280816.D
 Acq On : 28 May 2008 21:23
 Operator : WA
 Sample : P0801483-026 Dil (200ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 04:16:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

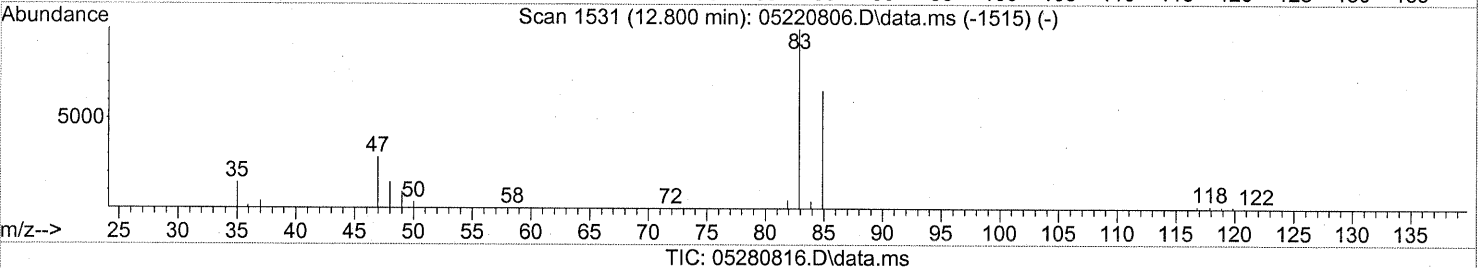
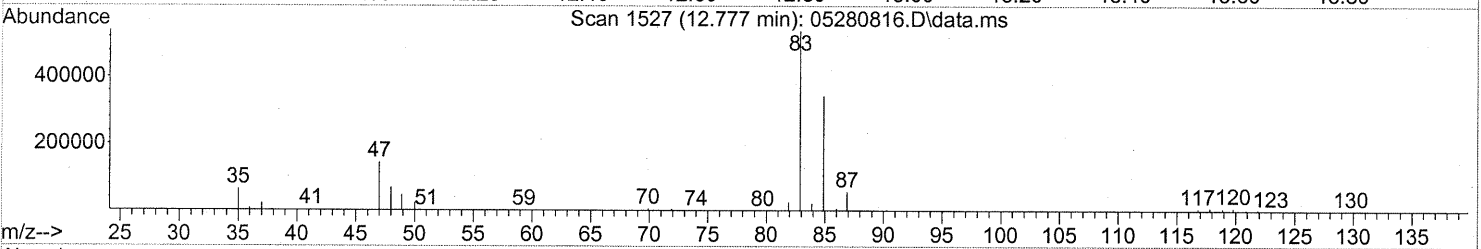
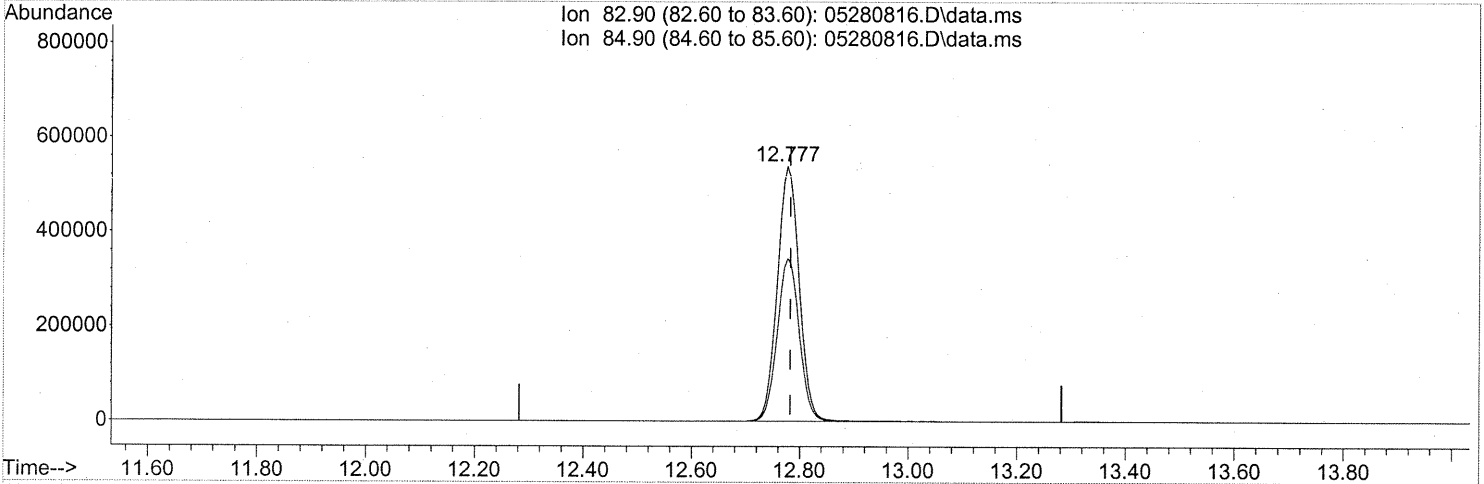
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 519 | N.D. | | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 1567 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 4591 | 0.063 | ng | 83 |
| 83) n-Decane | 24.98 | 57 | 8137 | 0.204 | ng | 91 |
| 84) Benzyl Chloride | 25.05 | 91 | 51 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 566 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 4959 | 0.113 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 70 | N.D. | | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 5674 | 0.074 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 2042 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.16 | 146 | 4959 | 0.115 | ng | 99 |
| 91) d-Limonene | 25.57 | 68 | 3047 | 0.106 | ng | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 20120 | 0.482 | ng | # 60 |
| 94) 1,2,4-Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 95) Naphthalene | 27.77 | 128 | 16057 | 0.168 | ng | 96 |
| 96) n-Dodecane | 27.73 | 57 | 29409 | 0.708 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 0.00 | 225 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280816.D
 Acq On : 28 May 2008 21:23
 Operator : WA
 Sample : P0801483-026 Dil (200ml)
 Misc : ENSR SG10B-05 (-2.8, 3.8)
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 29 04:16:01 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 56.70ng
 response 1512840

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 64.43 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1239

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG07B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-027

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00283

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.85 | 0.085 | 0.42 | 0.17 | 0.017 | |
| 74-87-3 | Chloromethane | 0.11 | 0.17 | 0.085 | 0.053 | 0.082 | 0.041 | J |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.85 | 0.085 | ND | 0.12 | 0.012 | |
| 75-01-4 | Vinyl Chloride | ND | 0.17 | 0.085 | ND | 0.066 | 0.033 | |
| 74-83-9 | Bromomethane | 0.091 | 0.17 | 0.085 | 0.024 | 0.044 | 0.022 | J |
| 75-00-3 | Chloroethane | 1.3 | 0.17 | 0.085 | 0.48 | 0.064 | 0.032 | |
| 64-17-5 | Ethanol | 5.1 | 8.5 | 0.085 | 2.7 | 4.5 | 0.045 | J, B |
| 67-64-1 | Acetone | 11 | 8.5 | 0.12 | 4.7 | 3.6 | 0.052 | B |
| 75-69-4 | Trichlorofluoromethane | 1.4 | 0.17 | 0.085 | 0.25 | 0.030 | 0.015 | |
| 107-13-1 | Acrylonitrile | ND | 0.85 | 0.12 | ND | 0.39 | 0.055 | |
| 75-35-4 | 1,1-Dichloroethene | 0.24 | 0.17 | 0.085 | 0.060 | 0.043 | 0.021 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.37 | 0.85 | 0.13 | 0.12 | 0.28 | 0.041 | J |
| 75-09-2 | Methylene Chloride | 2.5 | 0.85 | 0.085 | 0.72 | 0.24 | 0.024 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.17 | 0.085 | ND | 0.054 | 0.027 | |
| 76-13-1 | Trichlorotrifluoroethane | 0.54 | 0.17 | 0.095 | 0.070 | 0.022 | 0.012 | |
| 75-15-0 | Carbon Disulfide | 2.9 | 0.85 | 0.20 | 0.93 | 0.27 | 0.065 | B |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.17 | 0.085 | ND | 0.043 | 0.021 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.17 | 0.085 | ND | 0.042 | 0.021 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 13 | 0.17 | 0.085 | 3.6 | 0.047 | 0.023 | |
| 108-05-4 | Vinyl Acetate | 3.2 | 8.5 | 0.27 | 0.92 | 2.4 | 0.077 | J, B |
| 78-93-3 | 2-Butanone (MEK) | 4.5 | 0.85 | 0.085 | 1.5 | 0.29 | 0.029 | B |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.17 | 0.085 | ND | 0.043 | 0.021 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.85 | 0.10 | ND | 0.20 | 0.024 | |
| 67-66-3 | Chloroform | 430 | 0.17 | 0.10 | 88 | 0.035 | 0.020 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08 **1240**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG07B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-027

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00283

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.85 | 0.086 | ND | 0.20 | 0.021 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.17 | 0.085 | ND | 0.042 | 0.021 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.11 | 0.17 | 0.085 | 0.020 | 0.031 | 0.015 | J |
| 71-43-2 | Benzene | 3.3 | 0.17 | 0.085 | 1.0 | 0.053 | 0.026 | |
| 56-23-5 | Carbon Tetrachloride | 19 | 0.17 | 0.085 | 3.0 | 0.027 | 0.013 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.85 | 0.085 | ND | 0.20 | 0.020 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.17 | 0.085 | ND | 0.037 | 0.018 | |
| 75-27-4 | Bromodichloromethane | 1.2 | 0.17 | 0.085 | 0.18 | 0.025 | 0.013 | |
| 79-01-6 | Trichloroethene | 1.8 | 0.17 | 0.085 | 0.34 | 0.031 | 0.016 | |
| 123-91-1 | 1,4-Dioxane | 0.34 | 0.85 | 0.10 | 0.095 | 0.23 | 0.029 | J |
| 80-62-6 | Methyl Methacrylate | ND | 0.85 | 0.13 | ND | 0.21 | 0.031 | |
| 142-82-5 | n-Heptane | 0.11 | 0.85 | 0.11 | 0.026 | 0.21 | 0.026 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.85 | 0.088 | ND | 0.19 | 0.019 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.15 | 0.85 | 0.095 | 0.036 | 0.21 | 0.023 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.85 | 0.11 | ND | 0.19 | 0.023 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.17 | 0.085 | ND | 0.031 | 0.015 | |
| 108-88-3 | Toluene | 1.0 | 0.85 | 0.085 | 0.27 | 0.22 | 0.022 | |
| 591-78-6 | 2-Hexanone | 0.32 | 0.85 | 0.13 | 0.077 | 0.21 | 0.031 | J |
| 124-48-1 | Dibromochloromethane | 0.23 | 0.17 | 0.11 | 0.027 | 0.020 | 0.013 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.17 | 0.091 | ND | 0.022 | 0.012 | |
| 111-65-9 | n-Octane | 0.36 | 0.85 | 0.085 | 0.077 | 0.18 | 0.018 | J |
| 127-18-4 | Tetrachloroethene | 5.4 | 0.17 | 0.085 | 0.79 | 0.025 | 0.012 | |
| 108-90-7 | Chlorobenzene | 0.18 | 0.17 | 0.086 | 0.040 | 0.037 | 0.019 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08 **1241**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG07B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-027

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00283

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 0.21 | 0.85 | 0.10 | 0.049 | 0.19 | 0.024 | J |
| 179601-23-1 | m,p-Xylenes | 0.96 | 0.85 | 0.22 | 0.22 | 0.19 | 0.051 | |
| 75-25-2 | Bromoform | ND | 0.85 | 0.13 | ND | 0.082 | 0.012 | |
| 100-42-5 | Styrene | 0.17 | 0.85 | 0.13 | 0.039 | 0.20 | 0.030 | J |
| 95-47-6 | o-Xylene | 0.47 | 0.85 | 0.11 | 0.11 | 0.19 | 0.025 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.17 | 0.11 | ND | 0.025 | 0.016 | |
| 98-82-8 | Cumene | ND | 0.85 | 0.095 | ND | 0.17 | 0.019 | |
| 103-65-1 | n-Propylbenzene | 0.16 | 0.85 | 0.088 | 0.032 | 0.17 | 0.018 | J |
| 622-96-8 | 4-Ethyltoluene | 0.23 | 0.85 | 0.096 | 0.046 | 0.17 | 0.020 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.24 | 0.85 | 0.10 | 0.049 | 0.17 | 0.021 | J |
| 98-83-9 | alpha-Methylstyrene | ND | 0.85 | 0.12 | ND | 0.17 | 0.026 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.80 | 0.85 | 0.12 | 0.16 | 0.17 | 0.024 | J |
| 100-44-7 | Benzyl Chloride | ND | 0.17 | 0.15 | ND | 0.033 | 0.028 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.37 | 0.17 | 0.10 | 0.061 | 0.028 | 0.017 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | 0.17 | 0.095 | 0.19 | 0.028 | 0.016 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.85 | 0.098 | ND | 0.15 | 0.018 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.20 | 0.85 | 0.11 | 0.036 | 0.15 | 0.020 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.17 | 0.11 | ND | 0.028 | 0.019 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.85 | 0.13 | ND | 0.087 | 0.013 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.17 | 0.13 | ND | 0.023 | 0.017 | |
| 91-20-3 | Naphthalene | 0.95 | 0.34 | 0.13 | 0.18 | 0.065 | 0.024 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.17 | 0.15 | ND | 0.016 | 0.014 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.34 | 0.085 | ND | 0.062 | 0.015 | |
| 104-51-8 | n-Butylbenzene | 0.39 | 0.34 | 0.085 | 0.071 | 0.062 | 0.015 | M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

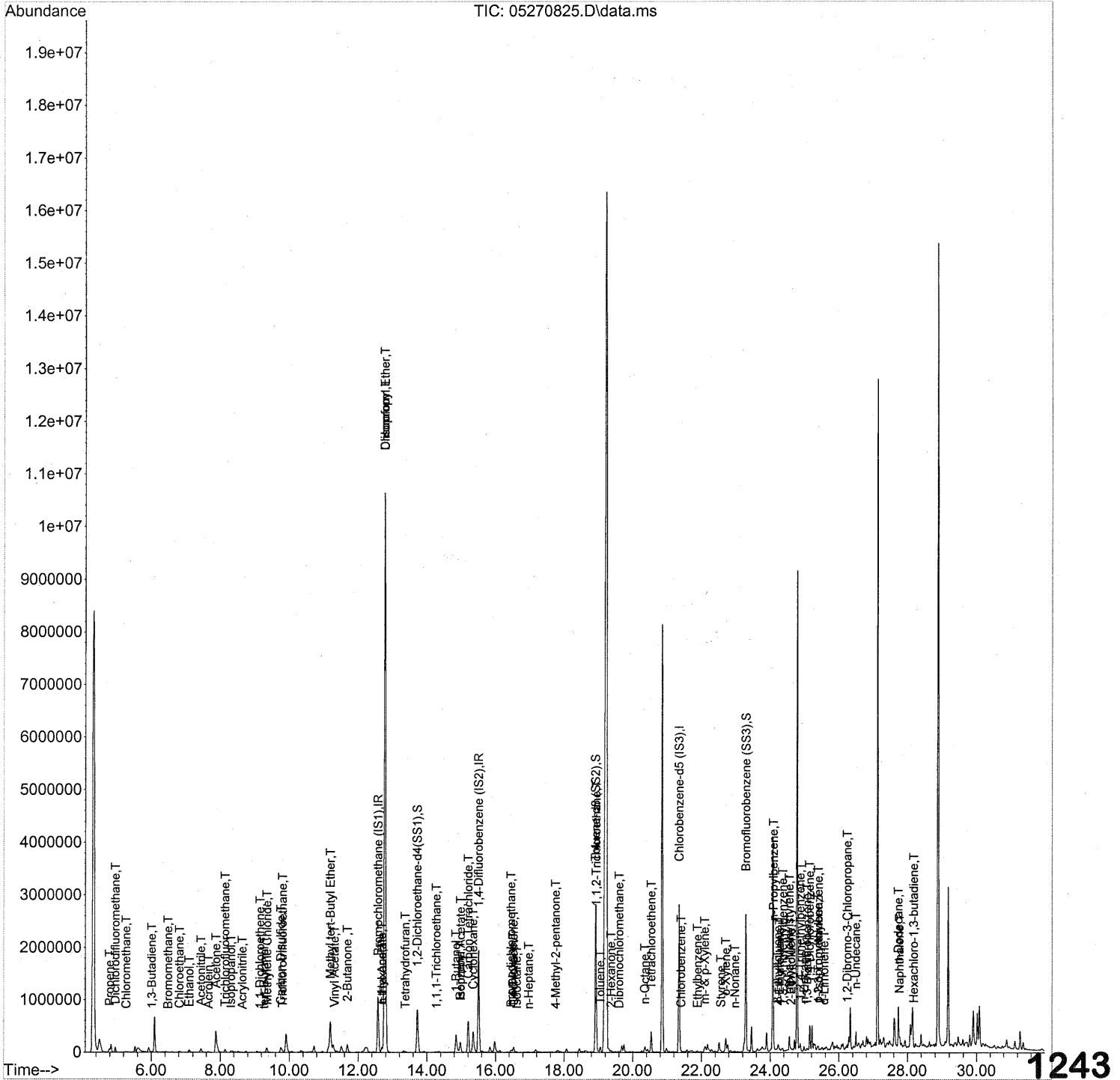
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08 **1242**

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:44:44 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1243

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:44:44 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 554275 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2315124 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1089370 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 853709 | 22.229 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 88.92% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 2411976 | 24.653 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 98.60% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 1010547 | 25.400 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.60% | ✓ |

Target Compounds

| | | | | | Qvalue |
|------------------------------|-------|-----|---------|-----------|--------|
| 2) Propene | 4.80 | 42 | 41047 | 0.938 ng | # 65 |
| 3) Dichlorodifluoromethane | 4.96 | 85 | 98839 | 1.225 ng | 100 |
| 4) Chloromethane | 5.28 | 50 | 3422 | 0.065 ng | # 41 |
| 5) Freon 114 | 5.53 | 135 | 1800 | N.D. ✓ | |
| 6) Vinyl Chloride | 5.74 | 62 | 211 | N.D. ✓ | |
| 7) 1,3-Butadiene | 6.02 | 54 | 4709 | 0.121 ng | # 70 |
| 8) Bromomethane | 6.49 | 94 | 1560 | 0.054 ng | 88 |
| 9) Chloroethane | 6.82 | 64 | 18622 | 0.750 ng | 98 |
| 10) Ethanol | 7.10 | 45 | 88679m | 3.043 ng | |
| 11) Acetonitrile | 7.44 | 41 | 114432 | 1.358 ng | 97 |
| 12) Acrolein | 7.67 | 56 | 17719 | 0.851 ng | 95 |
| 13) Acetone | 7.88 | 58 | 199016m | 6.670 ng | |
| 14) Trichlorofluoromethane | 8.14 | 101 | 58551 | 0.846 ng | 97 |
| 15) Isopropanol | 8.32 | 45 | 65185 | 0.685 ng | 94 |
| 16) Acrylonitrile | 8.65 | 53 | 2825 | 0.062 ng | 94 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 4303 | 0.141 ng | # 75 |
| 18) tert-Butanol | 9.28 | 59 | 17633m | 0.218 ng | |
| 19) Methylene Chloride | 9.36 | 84 | 49519 | 1.485 ng | # 82 |
| 20) Allyl Chloride | 9.55 | 41 | 460 | N.D. ✓ | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 9993 | 0.317 ng | 86 |
| 22) Carbon Disulfide | 9.76 | 76 | 216207 | 1.709 ng | 99 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 65 | N.D. ✓ | |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 2616 | N.D. ✓ | |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 744144 | 7.712 ng | 85 |
| 26) Vinyl Acetate | 11.32 | 86 | 10541m | 1.912 ng | |
| 27) 2-Butanone | 11.68 | 72 | 57700 | 2.650 ng | # 86 |
| 28) cis-1,2-Dichloroethene | 12.30 | 61 | 63 | N.D. ✓ | |
| 29) Diisopropyl Ether | 12.78 | 87 | 1310381 | 49.106 ng | # 1 |
| 30) Ethyl Acetate | 12.70 | 61 | 20945 | 1.782 ng | 91 |
| 31) n-Hexane | 12.70 | 57 | 6512 | 0.110 ng | # 1244 |

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 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|-----------------------|---------------|-----------|
| 32) Chloroform | 12.78 | 83 | 11933375 | 236.103 ng | <i>su dil</i> | 98 |
| 34) Tetrahydrofuran | 13.37 | 72 | 5112 | 0.246 | ng # | 75 |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | ✓ | |
| 36) 1,2-Dichloroethane | 13.88 | 62 | 2146 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 14.28 | 97 | 3412 | 0.065 | ng # | 22 |
| 39) Isopropyl Acetate | 14.99 | 61 | 1857 | 0.094 | ng # | 1 |
| 40) 1-Butanol | 14.85 | 56 | 310864 | 9.769 | ng | 87 |
| 41) Benzene | 14.98 | 78 | 235183 | 1.940 | ng | 100 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 516343 | 11.060 | ng | 99 |
| 43) Cyclohexane | 15.35 | 84 | 35843 | 0.760 | ng # | 1 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1055 | N.D. | ✓ | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 1564 | N.D. | ✓ | |
| 46) Bromodichloromethane | 16.46 | 83 | 29674 | 0.724 | ng | 99 |
| 47) Trichloroethene | 16.53 | 130 | 40302 | 1.084 | ng | 99 |
| 48) 1,4-Dioxane | 16.50 | 88 | 4618 | 0.202 | ng | 100 |
| 49) Isooctane | 16.62 | 57 | 9870 | 0.071 | ng # | 37 |
| 50) Methyl Methacrylate | 16.74 | 100 | 82 | N.D. | ✓ | |
| 51) n-Heptane | 16.97 | 71 | 2075 | 0.064 | ng # | 68 |
| 52) cis-1,3-Dichloropropene | 17.80 | 75 | 522 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | 17.76 | 58 | 2804 | 0.087 | ng | 78 |
| 54) trans-1,3-Dichloropropene | 18.45 | 75 | 86 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 212167 | 7.083 | ng <i>NR#</i> | 9 |
| 58) Toluene | 19.06 | 91 | 81245 | 0.611 | ng | 94 |
| 59) 2-Hexanone | 19.37 | 43 | 17123 | 0.187 | ng | 79 |
| 60) Dibromochloromethane | 19.61 | 129 | 4801 | 0.134 | ng | 100 |
| 61) 1,2-Dibromoethane | 19.74 | 107 | 205 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.19 | 43 | 2653 | N.D. | | |
| 63) n-Octane | 20.35 | 57 | 6223 | 0.212 | ng | 97 |
| 64) Tetrachloroethene | 20.54 | 166 | 124968 | 3.176 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 9656 | 0.108 | ng | 93 |
| 66) Ethylbenzene | 21.89 | 91 | 19203 | 0.126 | ng | 95 |
| 67) m- & p-Xylene | 22.10 | 91 | 57785 | 0.567 | ng | 91 |
| 68) Bromoform | 22.21 | 173 | 1290 | N.D. | ✓ | |
| 69) Styrene | 22.57 | 104 | 9058 | 0.099 | ng | 96 |
| 70) o-Xylene | 22.71 | 91 | 30651 | 0.278 | ng | 84 |
| 71) n-Nonane | 22.98 | 43 | 8463 | 0.108 | ng # | 75 |
| 72) 1,1,2,2-Tetrachloroethane | 22.71 | 83 | 1281 | N.D. | ✓ | |
| 74) Cumene | 23.46 | 105 | 4741 | N.D. | ✓ | |
| 75) alpha-Pinene | 23.96 | 93 | 3700 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 17096 | 0.092 | ng # | 86 |
| 77) 3-Ethyltoluene | 24.22 | 105 | 40810 | 0.261 | ng | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 19712 | 0.135 | ng | 96 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 18635 | 0.142 | ng | 8245 |

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 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------------|------|----------|------------------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 3888 | 0.055 | ng | # 1 |
| 81) 2-Ethyltoluene | 24.60 | 105 | 22770 | 0.144 | ng | 97 |
| 82) 1,2,4-Trimethylbenzene | <u>24.88</u> | 105 | 63753 | <u>0.476</u> | ng | 87 |
| 83) n-Decane | 24.98 | 57 | 29985 | 0.407 | ng | 75 |
| 84) Benzyl Chloride | 25.04 | 91 | 3944 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | <u>25.07</u> | 146 | 18168 | <u>0.217</u> | ng | 97 |
| 86) 1,4-Dichlorobenzene | <u>25.15</u> | 146 | 54261 | <u>0.669</u> | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 3681 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | <u>25.39</u> | 119 | 16632 | <u>0.118</u> | ng | 84 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 25402 | 0.194 | ng | 95 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 896 | N.D. | ✓ | |
| 91) d-Limonene | 25.57 | 68 | 7564 | 0.142 | ng | 78 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.25 | 157 | 1353 | 0.055 | ng | # 1 |
| 93) n-Undecane | 26.50 | 57 | 106548 | 1.383 | ng | # 67 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 1328 | N.D. | ✓ | |
| 95) Naphthalene | <u>27.77</u> | 128 | 99297 | <u>0.563</u> | ng | 91 |
| 96) n-Dodecane | <u>27.73</u> | 57 | 248857 | 3.247 | ng | 84 |
| 97) Hexachloro-1,3-butadiene | <u>28.19</u> | 225 | 2750 | <u>0.071</u> | ng | <MDL 99 |

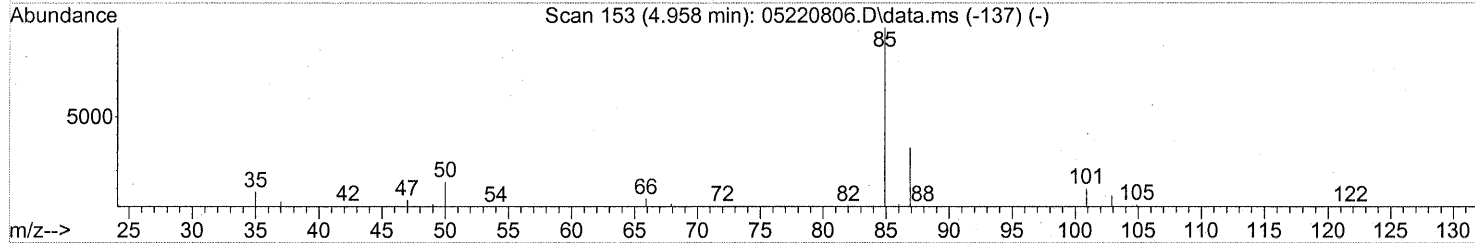
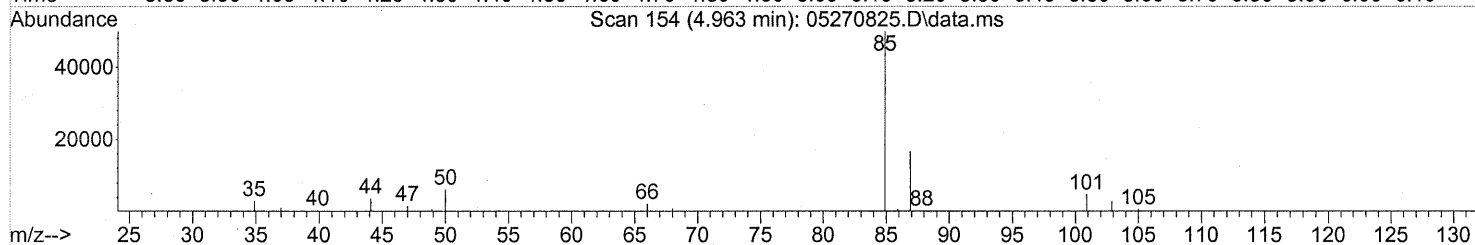
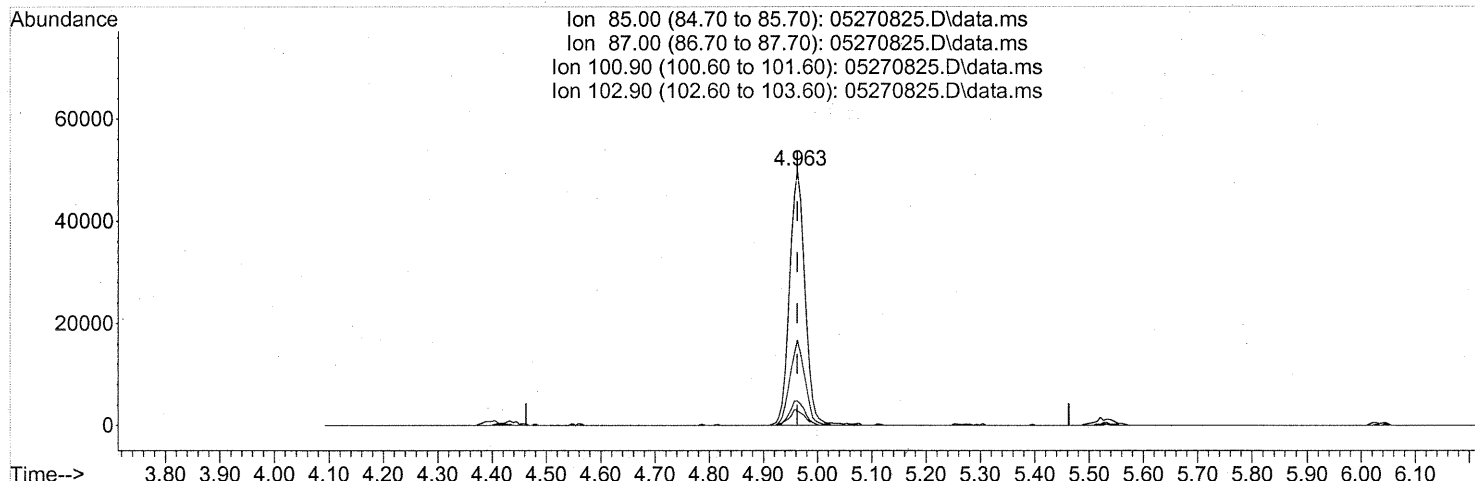
(#) = qualifier out of range (m) = manual integration (+) = signals summed

WA 6/2/08

Quantitation Report (Qedit)

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 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 1.22ng

response 98839

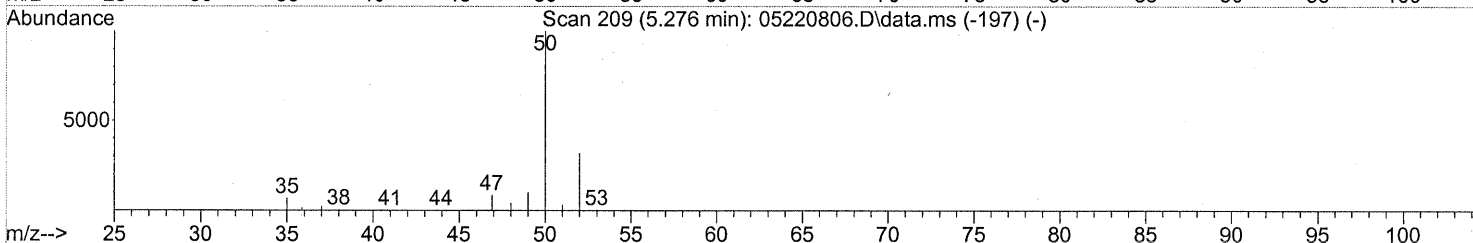
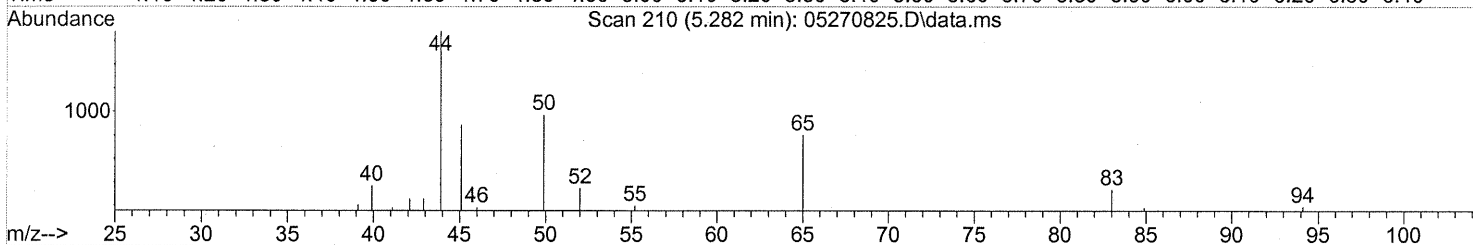
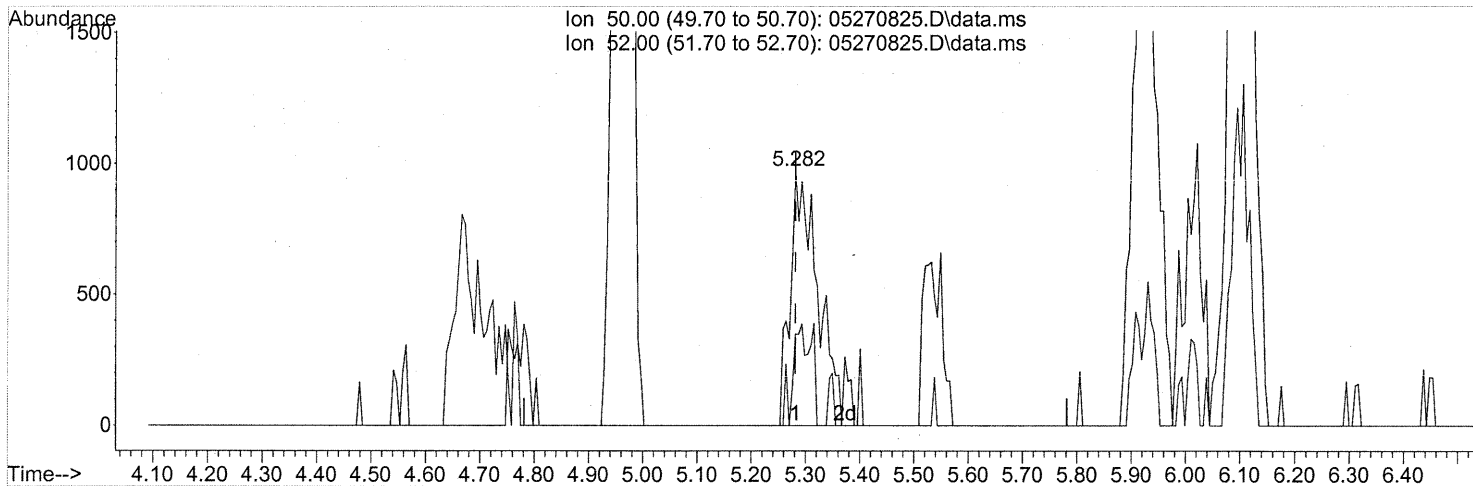
| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 32.59 |
| 100.90 | 9.30 | 9.40 |
| 102.90 | 6.00 | 5.86 |

1247

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
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 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
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 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(4) Chloromethane (T)

5.282min (-0.000) 0.07ng
 response 3422

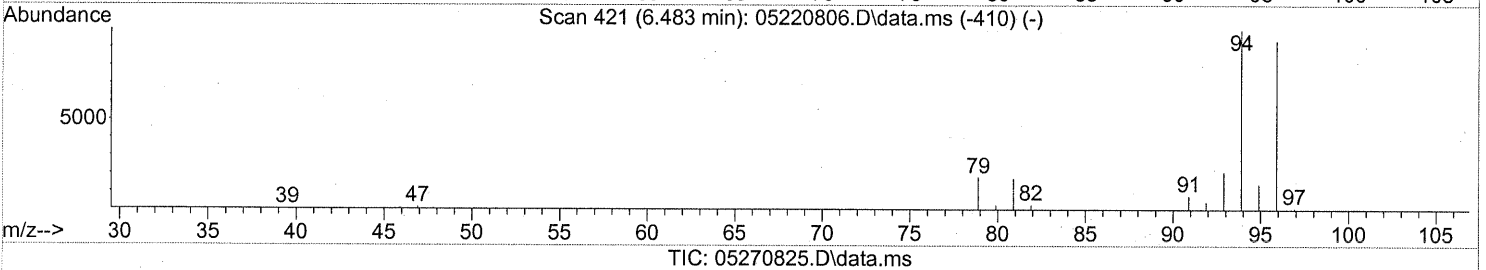
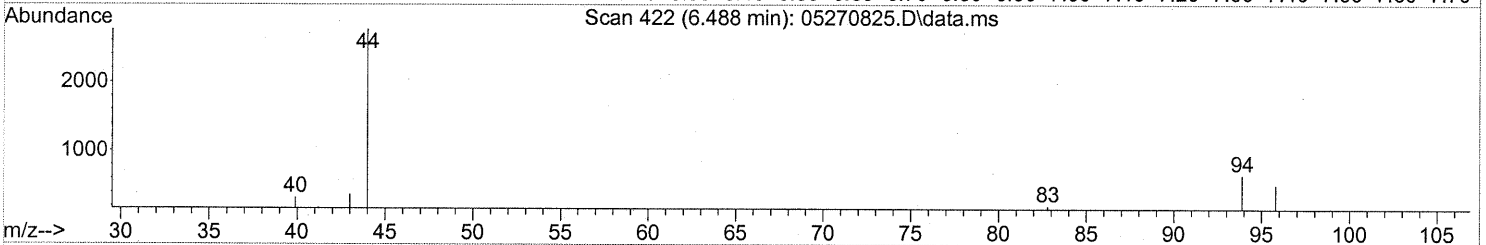
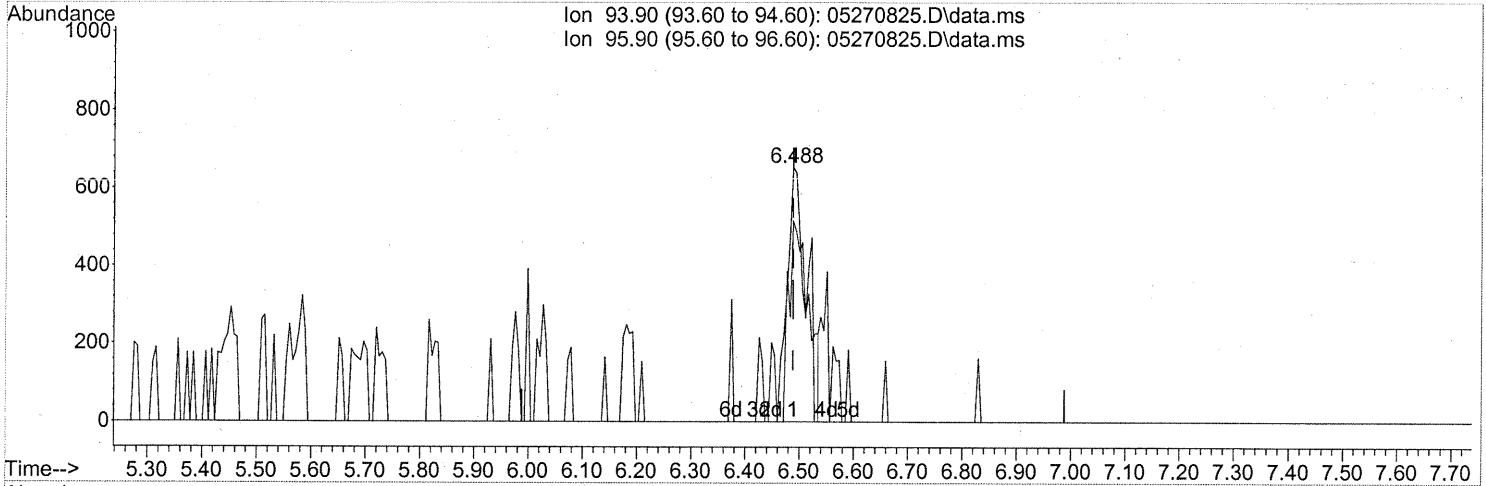
| Ion | Exp% | Act% |
|-------|-------|-------|
| 50.00 | 100 | 100 |
| 52.00 | 33.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1248

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
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 Response via : Initial Calibration



(8) Bromomethane (T)

6.488min (-0.000) 0.05ng

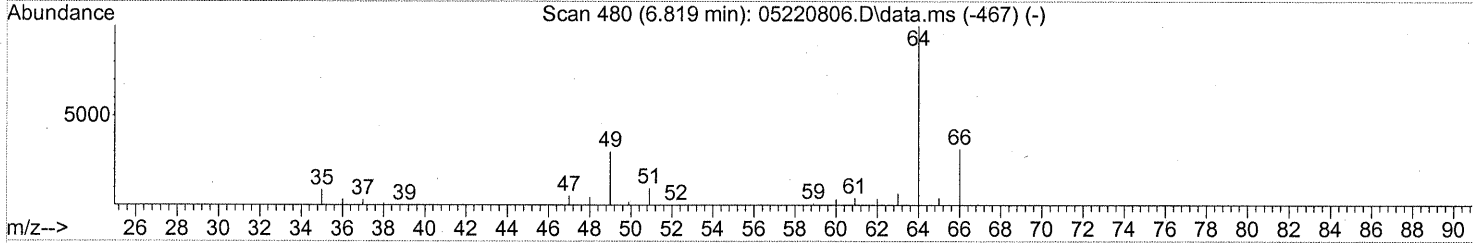
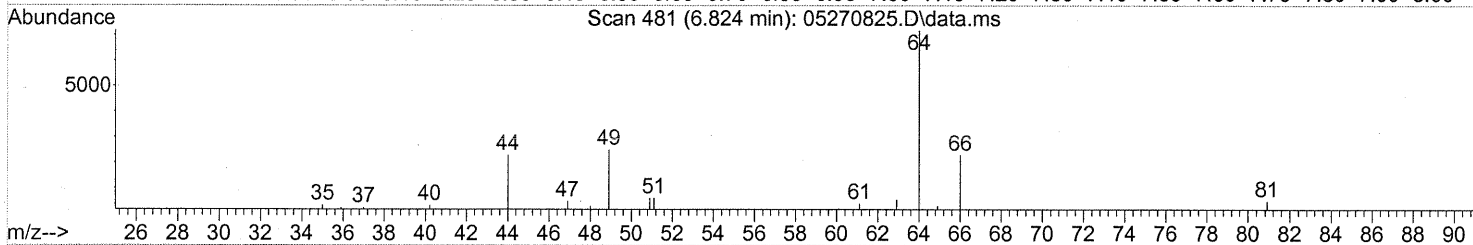
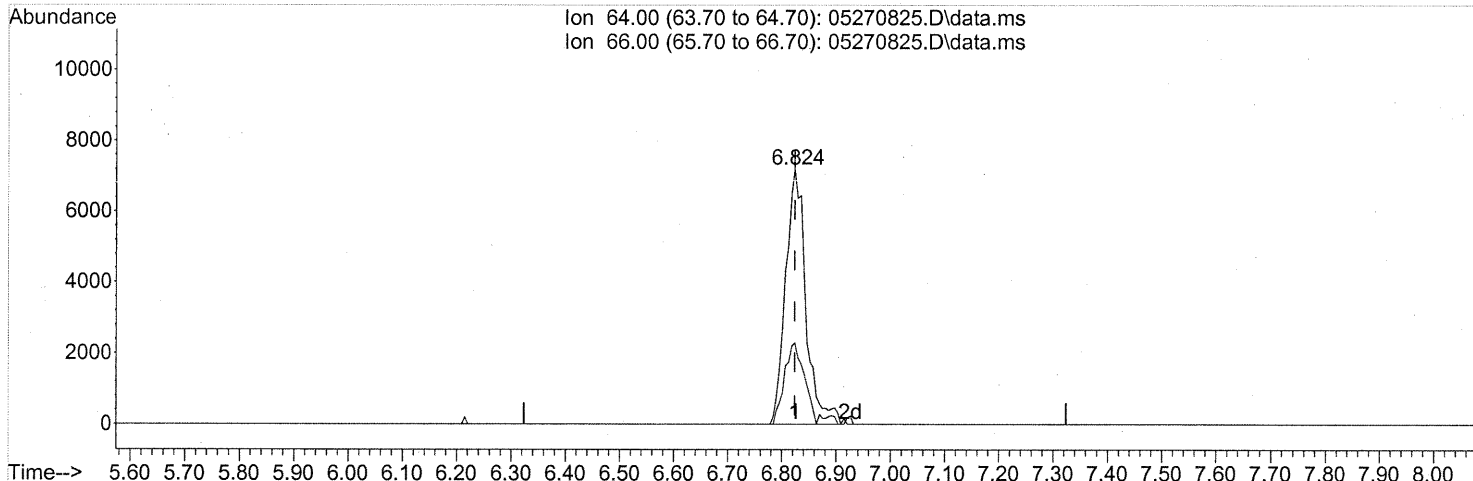
response 1560

| Ion | Exp% | Act% |
|-------|-------|-------|
| 93.90 | 100 | 100 |
| 95.90 | 92.30 | 80.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

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 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(9) Chloroethane (T)

6.824min (-0.000) 0.75ng

response 18622

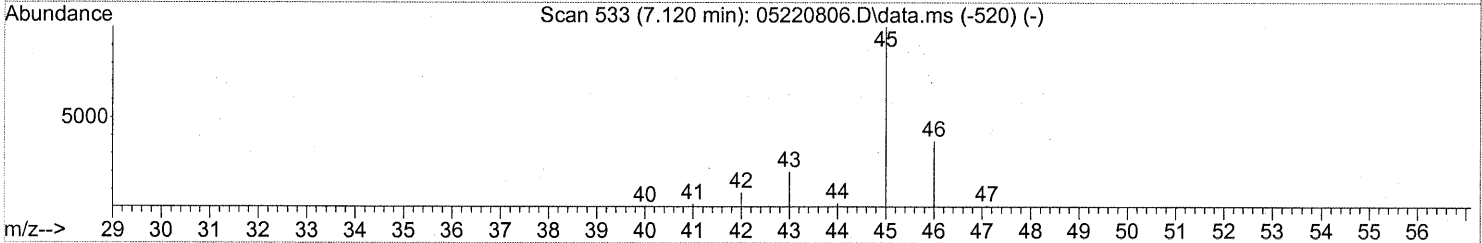
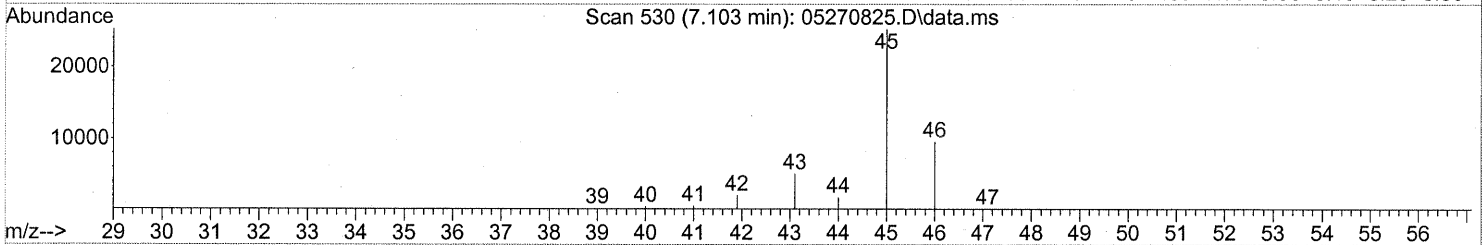
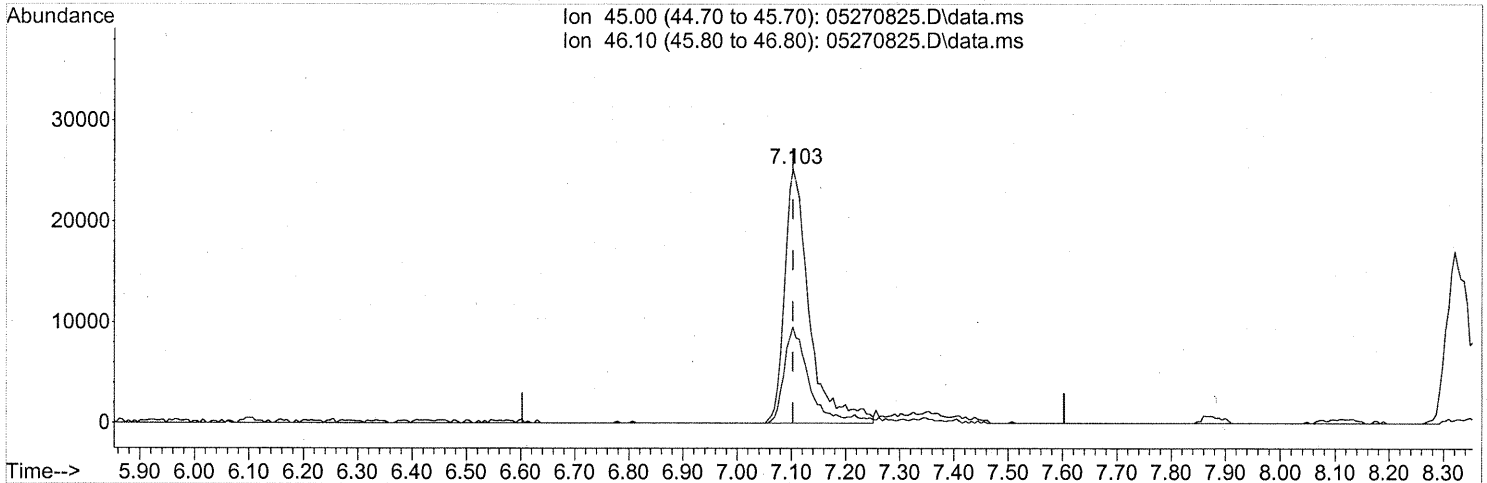
| Ion | Exp% | Act% |
|-------|-------|-------|
| 64.00 | 100 | 100 |
| 66.00 | 29.60 | 30.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1250

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 2:37
Operator : WA
Sample : P0801483-027 (1000ml)
Misc : ENSR SG07B-05 (-3.8, 3.7)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270825.D\data.ms

(10) Ethanol (T)

7.103min (-0.000) 2.73ng

response 79679

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 38.46 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

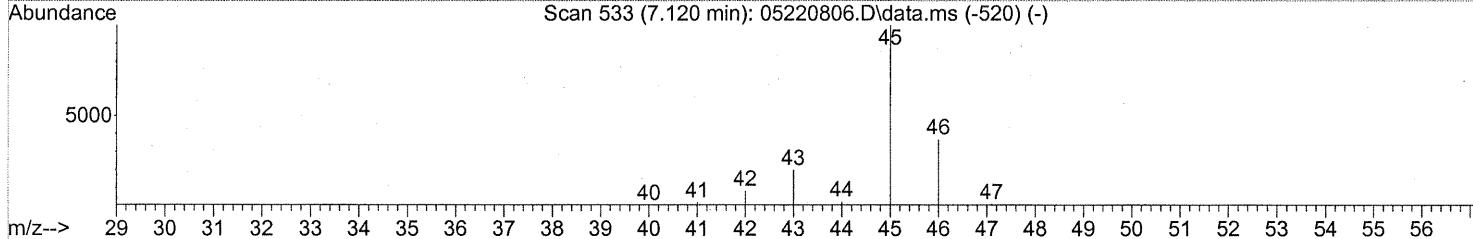
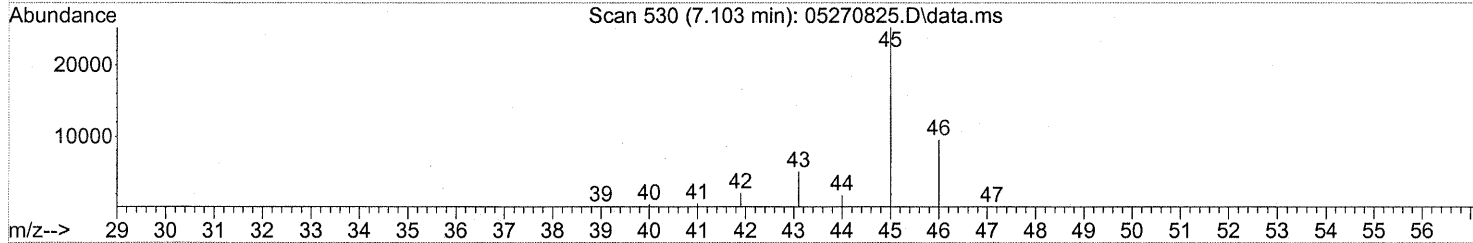
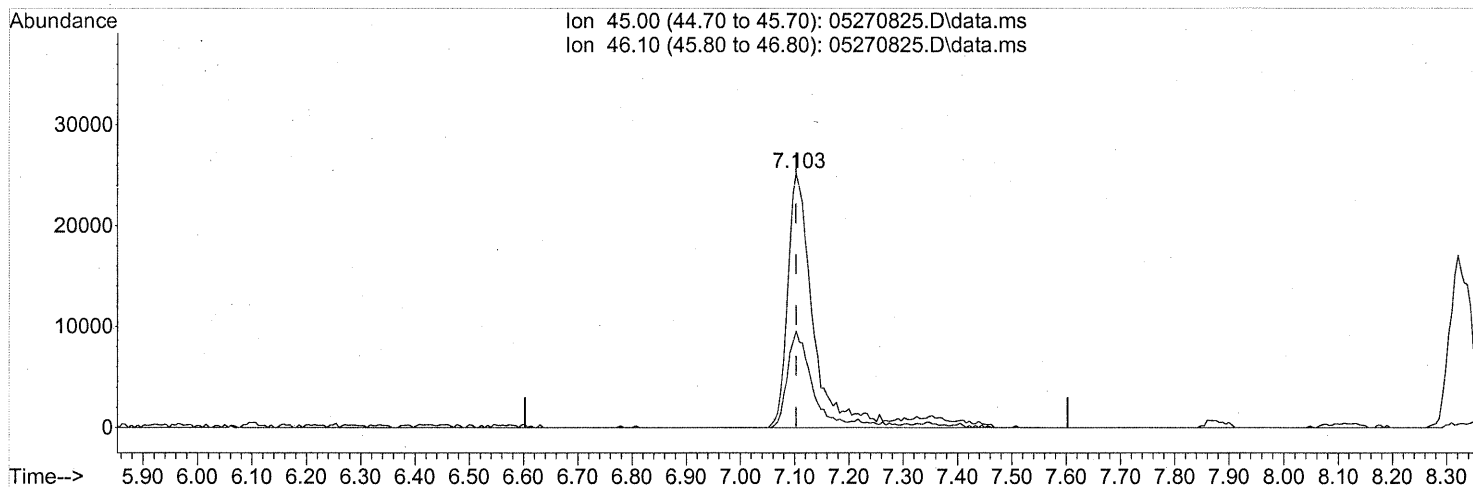
split peaks

1251

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 3.04ng m

response 88679

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 34.55 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

int. whole peaks

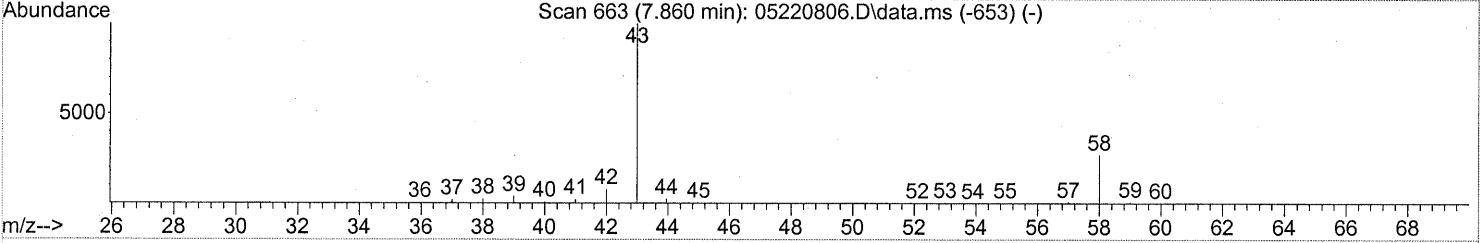
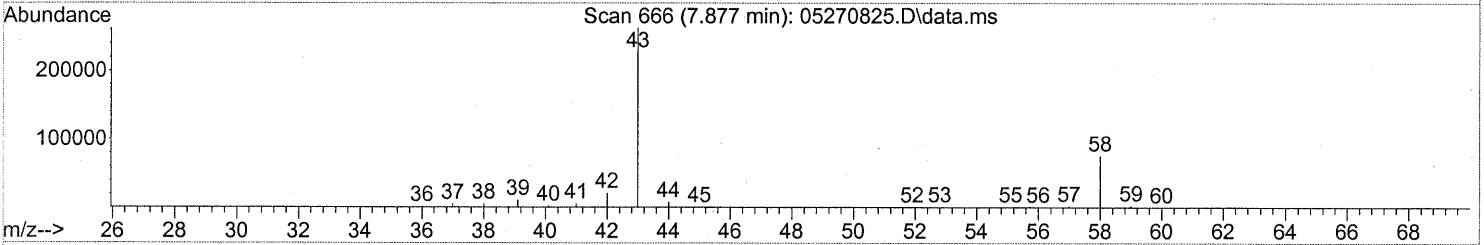
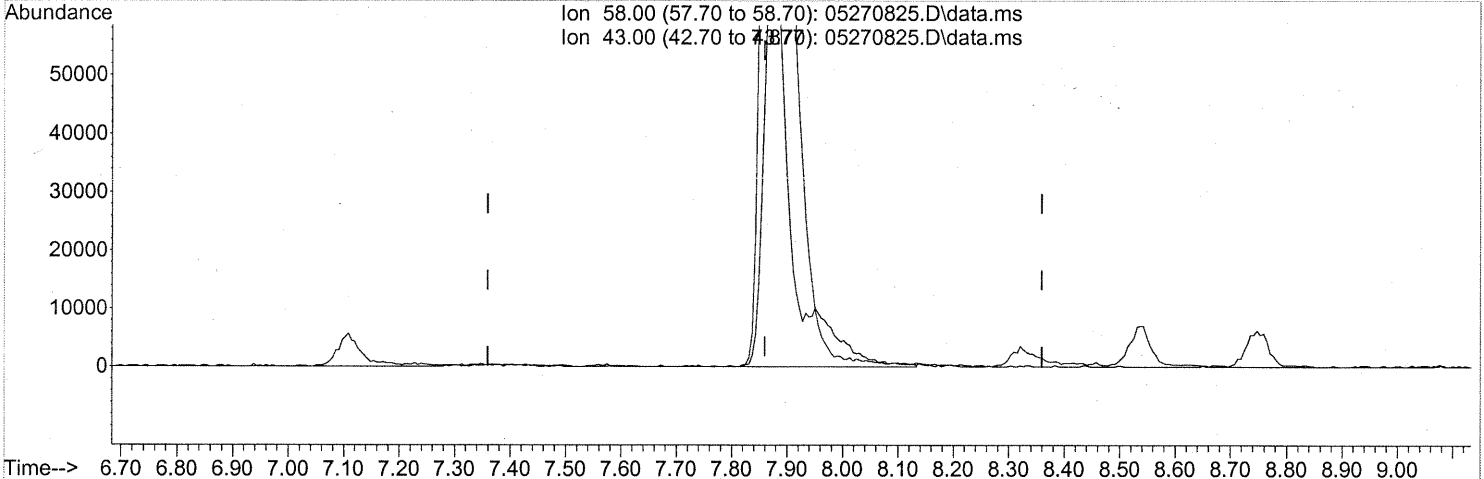
WA 6/2/08

1252

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)
 7.877min (+0.017) 8.08ng
 response 241224

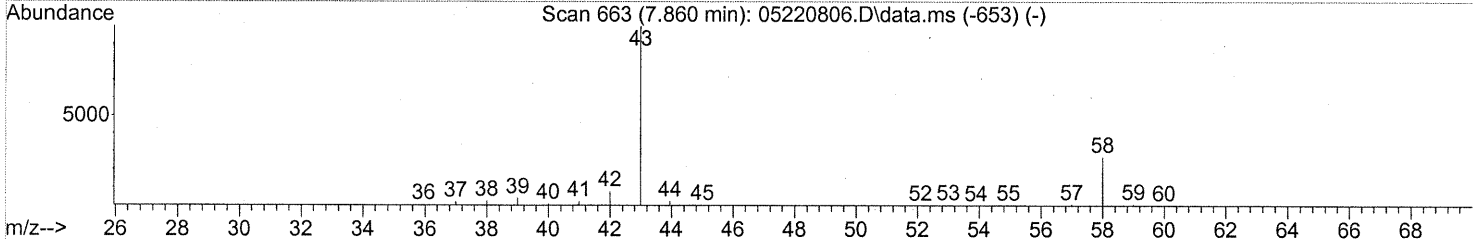
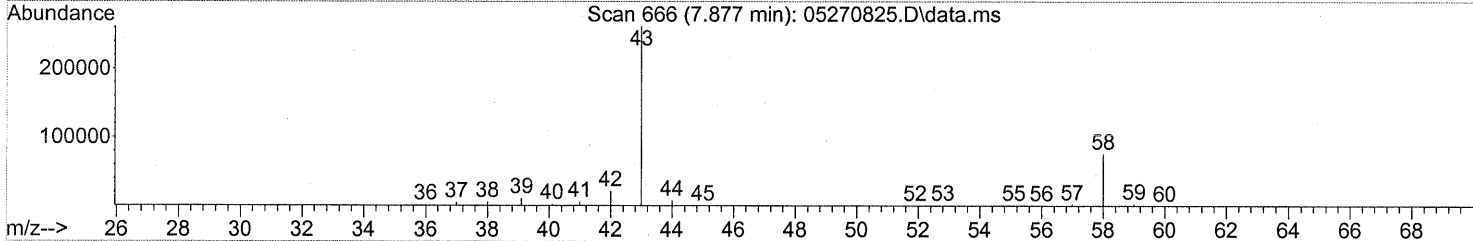
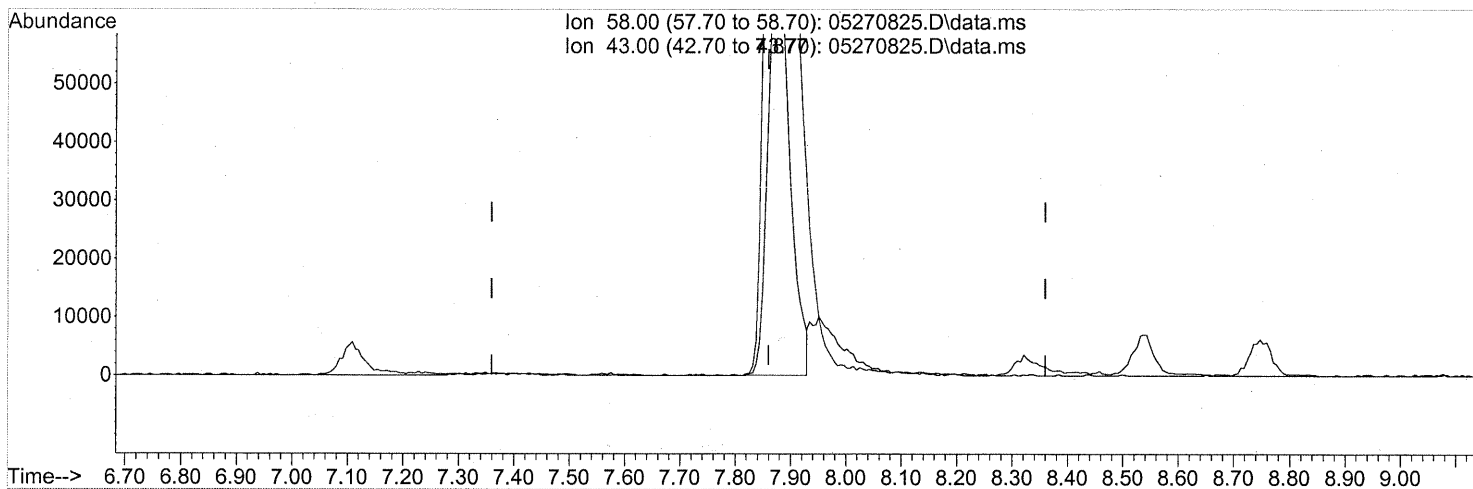
interf-shoulder

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 315.37# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 2:37
Operator : WA
Sample : P0801483-027 (1000ml)
Misc : ENSR SG07B-05 (-3.8, 3.7)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.877min (+0.017) 6.67ng m

response 199016

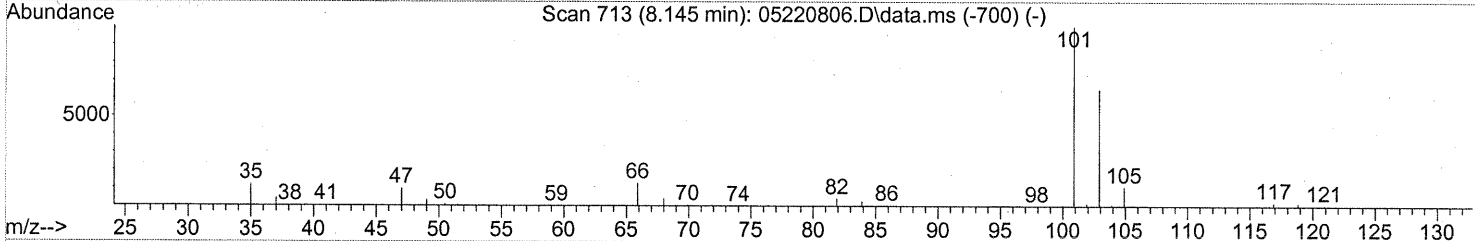
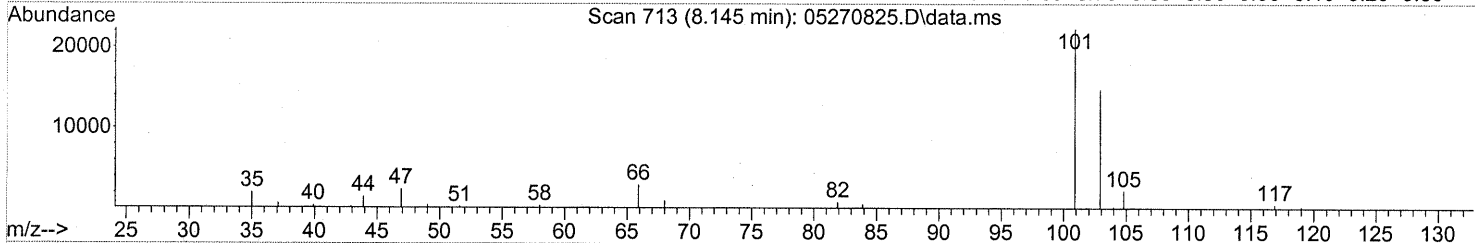
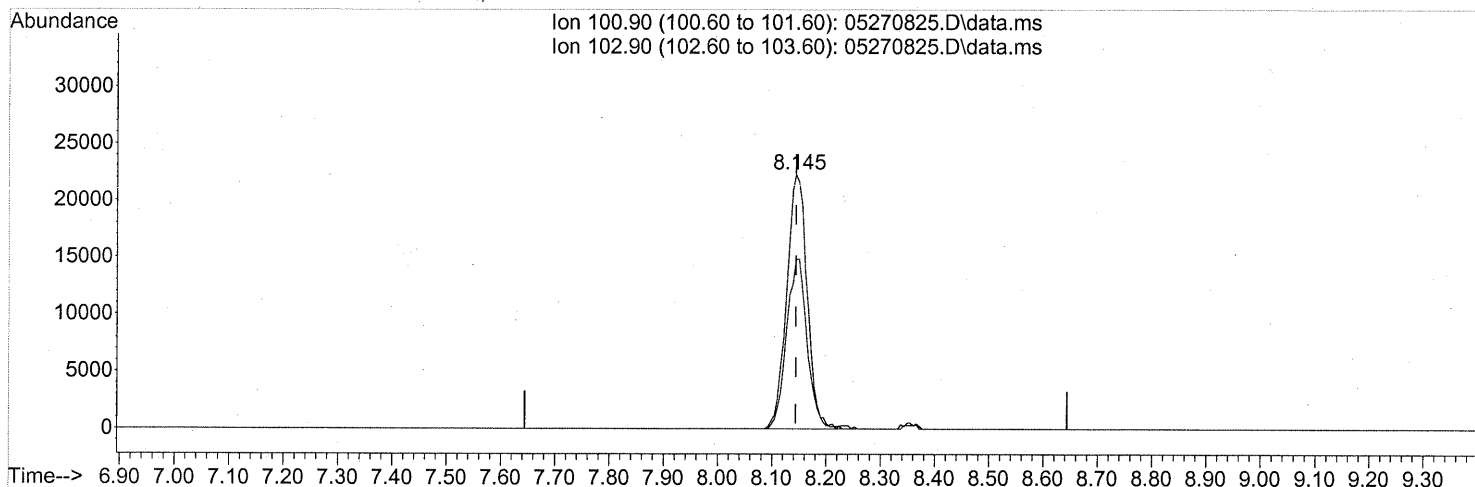
| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 382.25# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

10/0 shoulder
10/1 6/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(14) Trichlorofluoromethane (T)

8.145min (-0.000) 0.85ng

response 58551

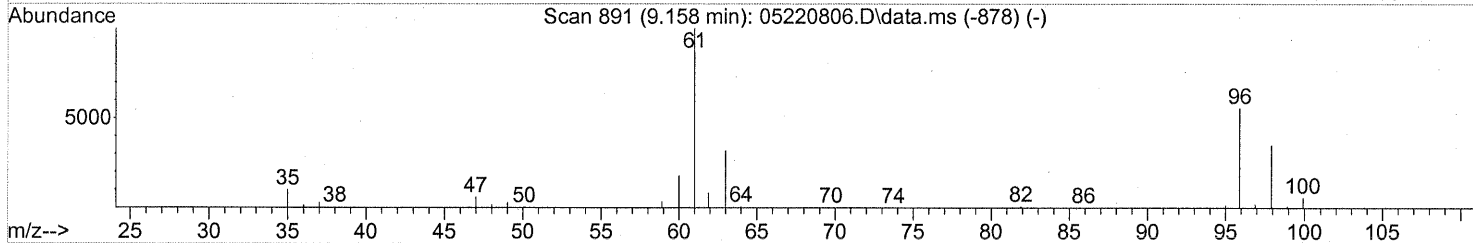
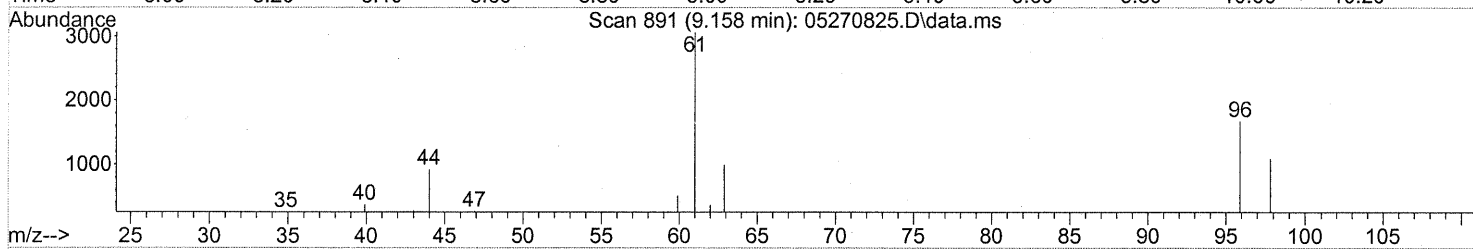
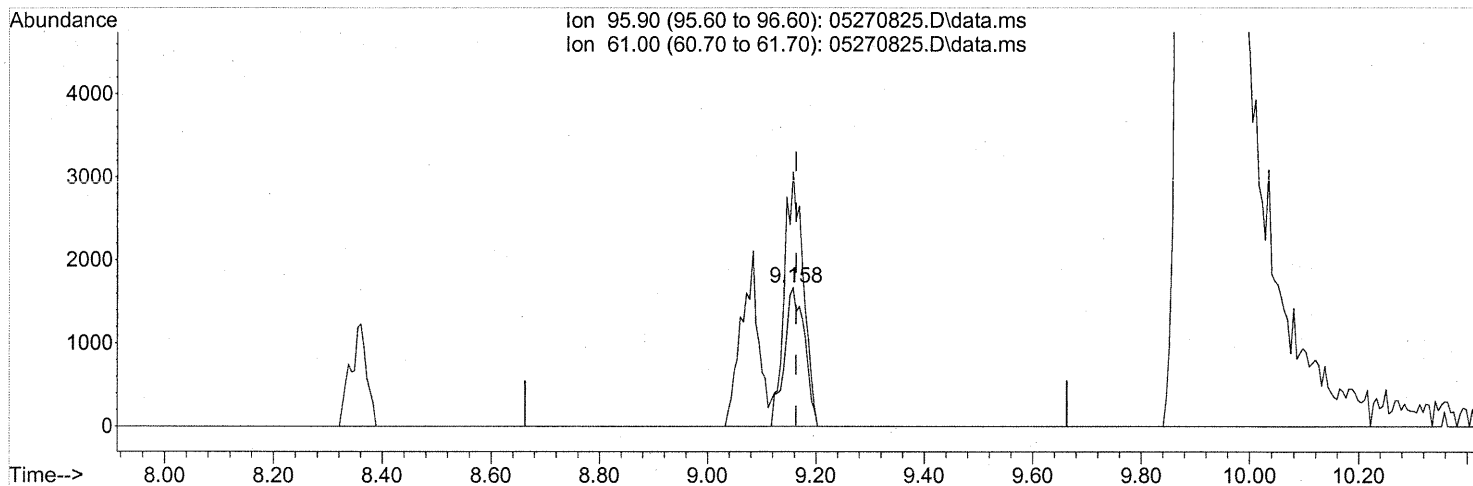
| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 66.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1255

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 0.14ng

response 4303

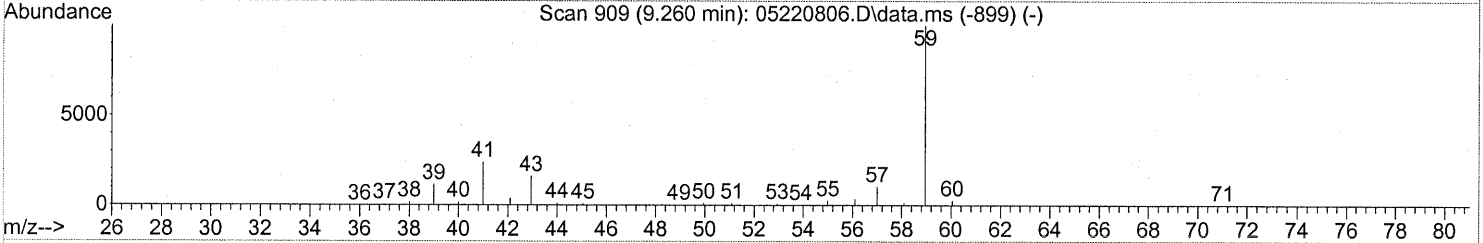
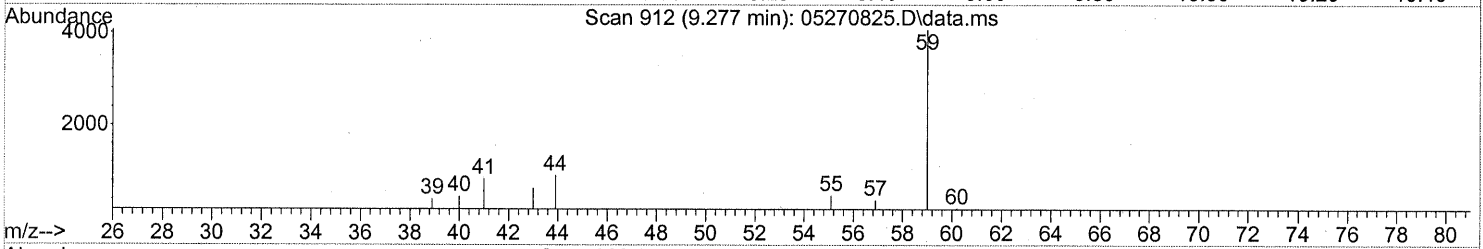
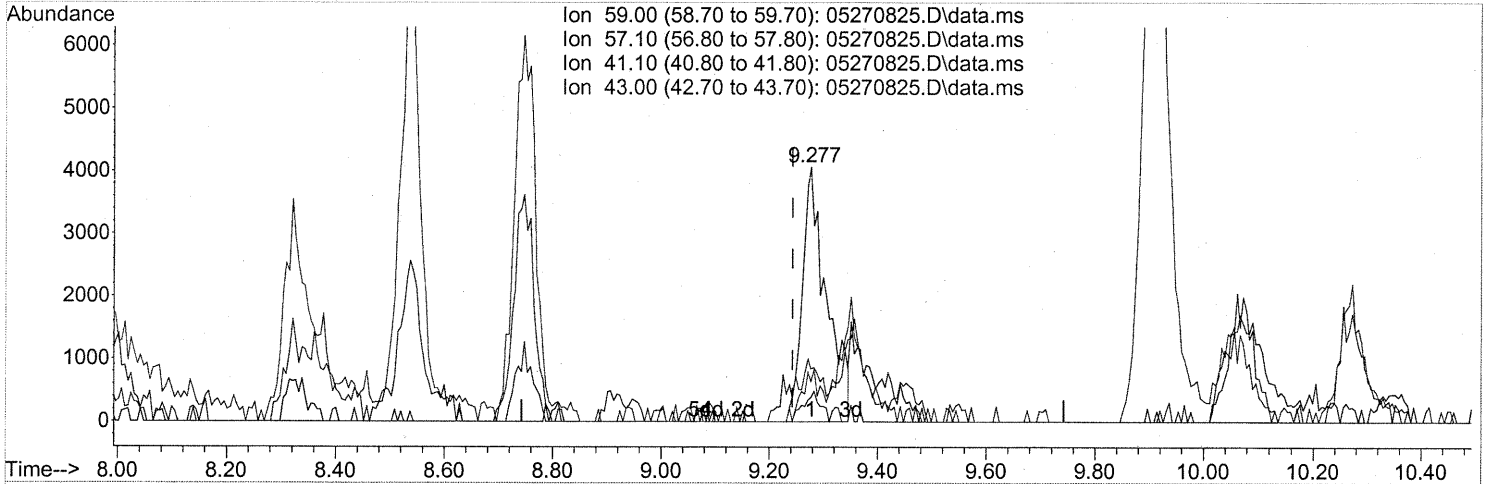
| Ion | Exp% | Act% |
|-------|--------|---------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 171.65# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1256

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.277min (+0.034) 0.16ng

response 12563

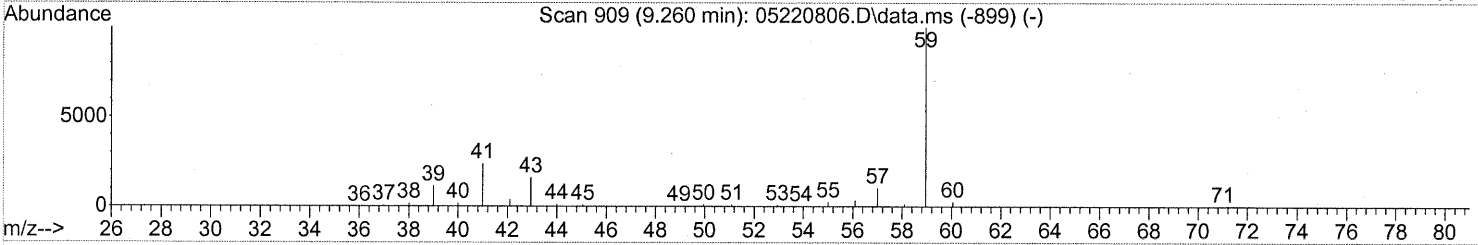
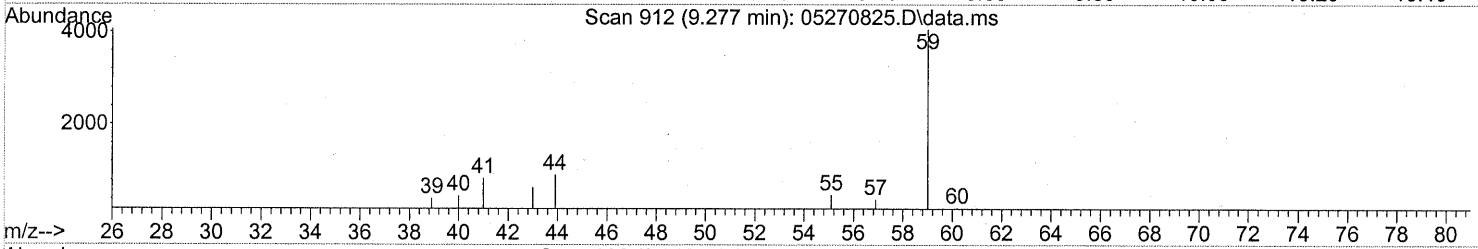
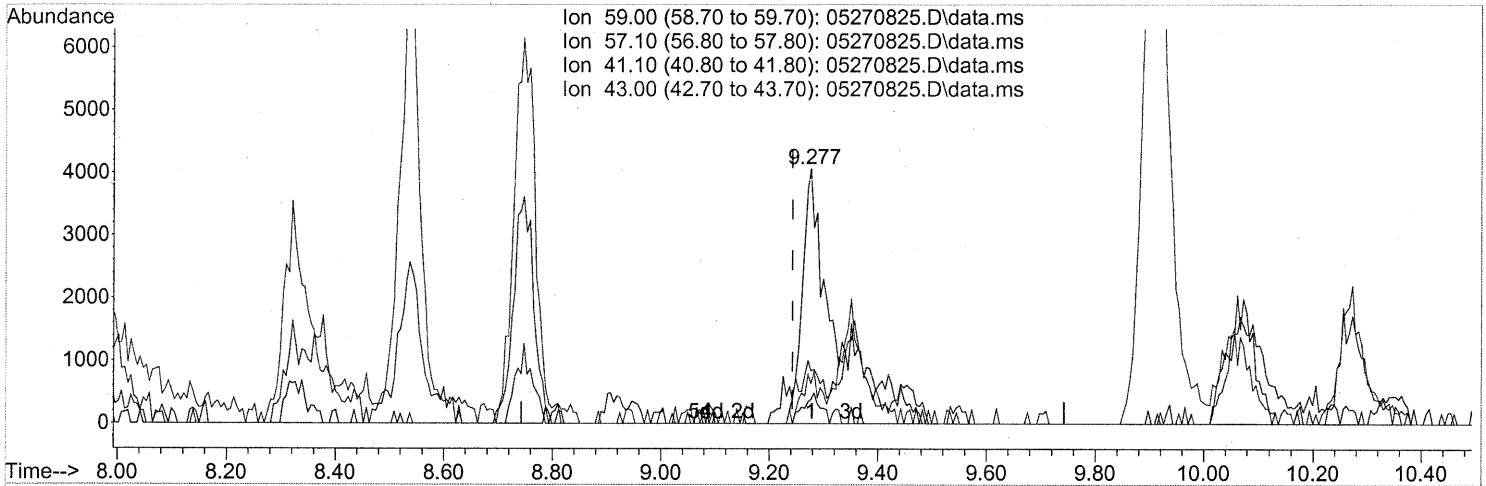
split peaks

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 8.37 |
| 41.10 | 20.10 | 22.13 |
| 43.00 | 12.30 | 15.60 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(18) tert-Butanol (T)

9.277min (+0.034) 0.22ng m

response 17633

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 5.96 |
| 41.10 | 20.10 | 15.77 |
| 43.00 | 12.30 | 11.12 |

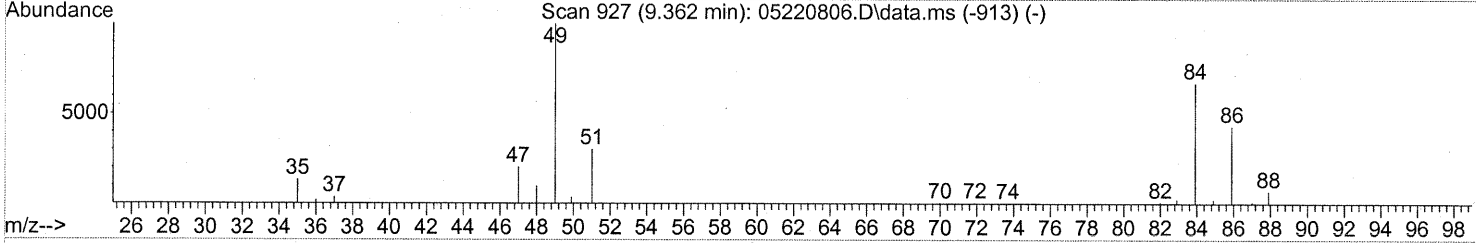
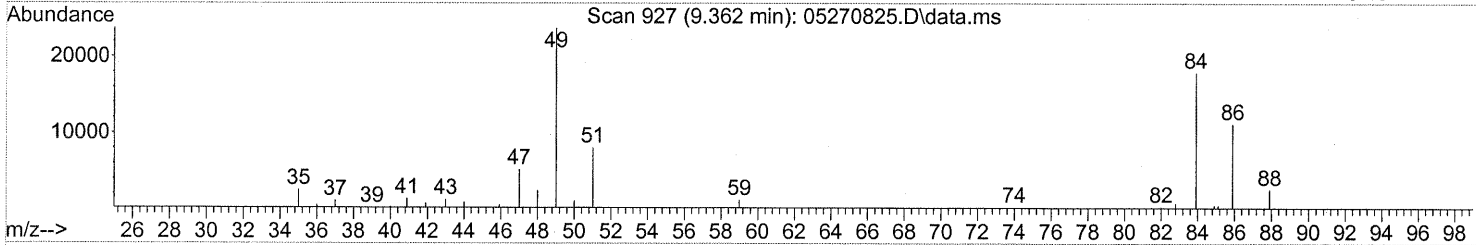
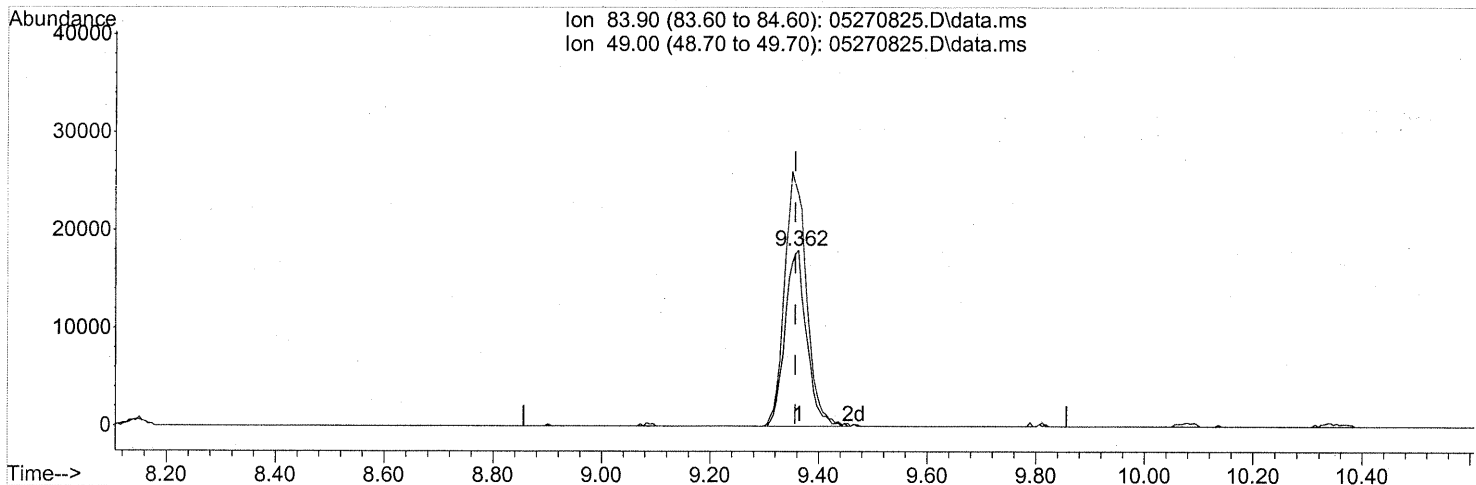
int. whole peaks
WA 6/2/08

1258

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 2:37
Operator : WA
Sample : P0801483-027 (1000ml)
Misc : ENSR SG07B-05 (-3.8, 3.7)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270825.D\data.ms

(19) Methylene Chloride (T)

9.362min (+0.006) 1.48ng

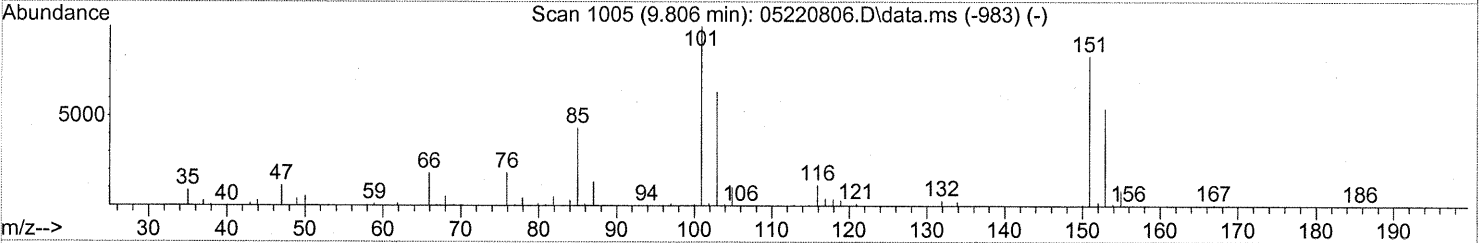
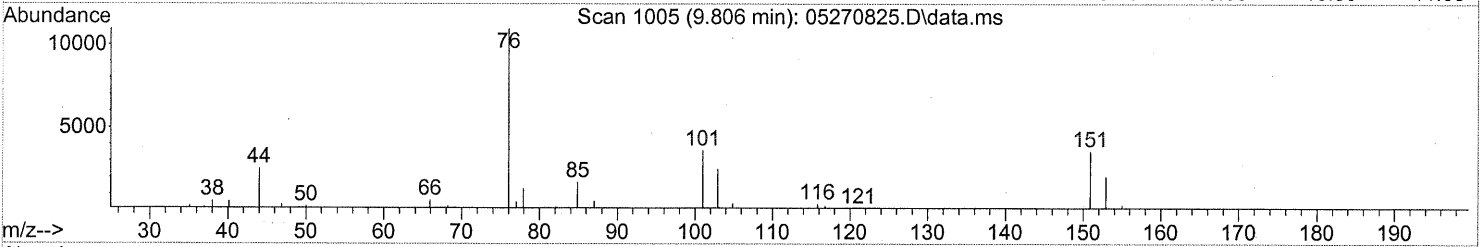
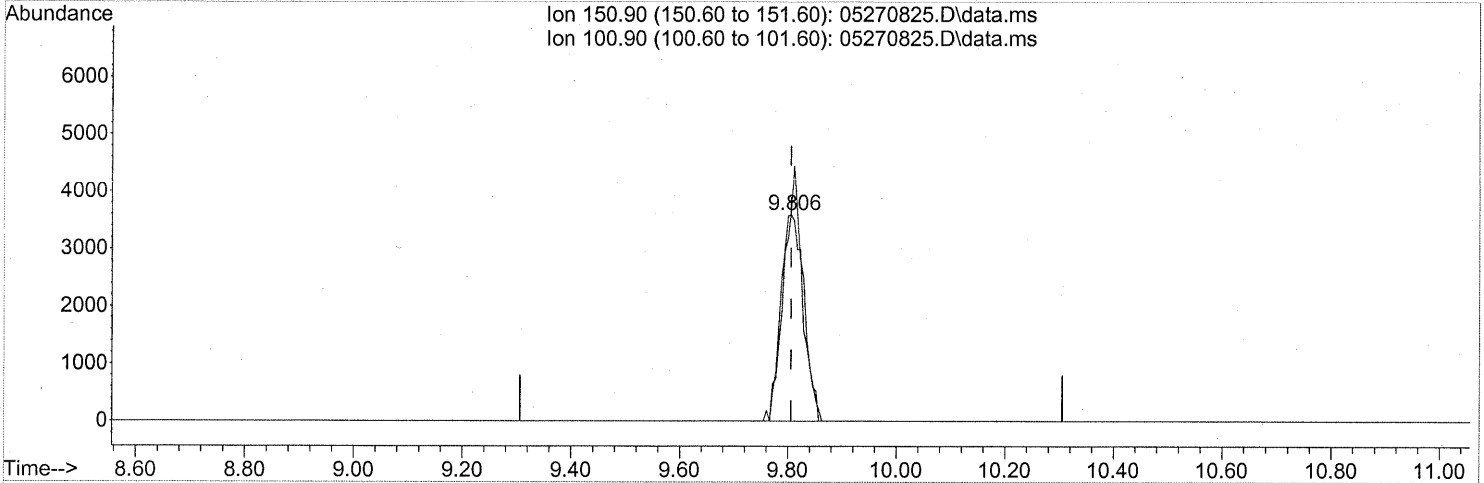
response 49519

| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 147.52# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.32ng

response 9993

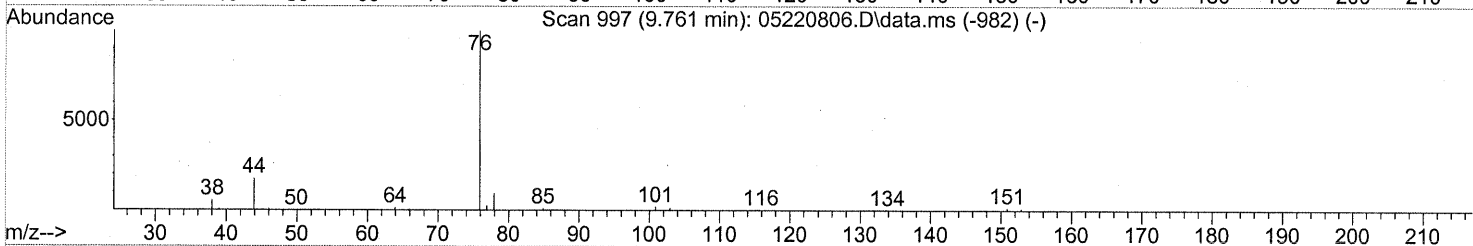
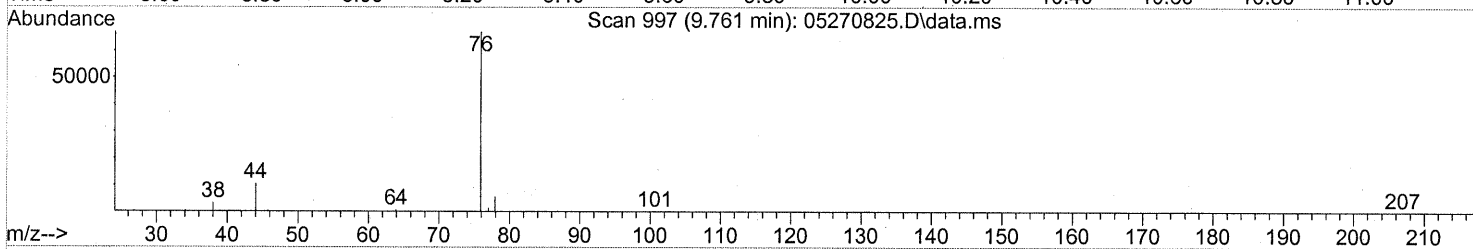
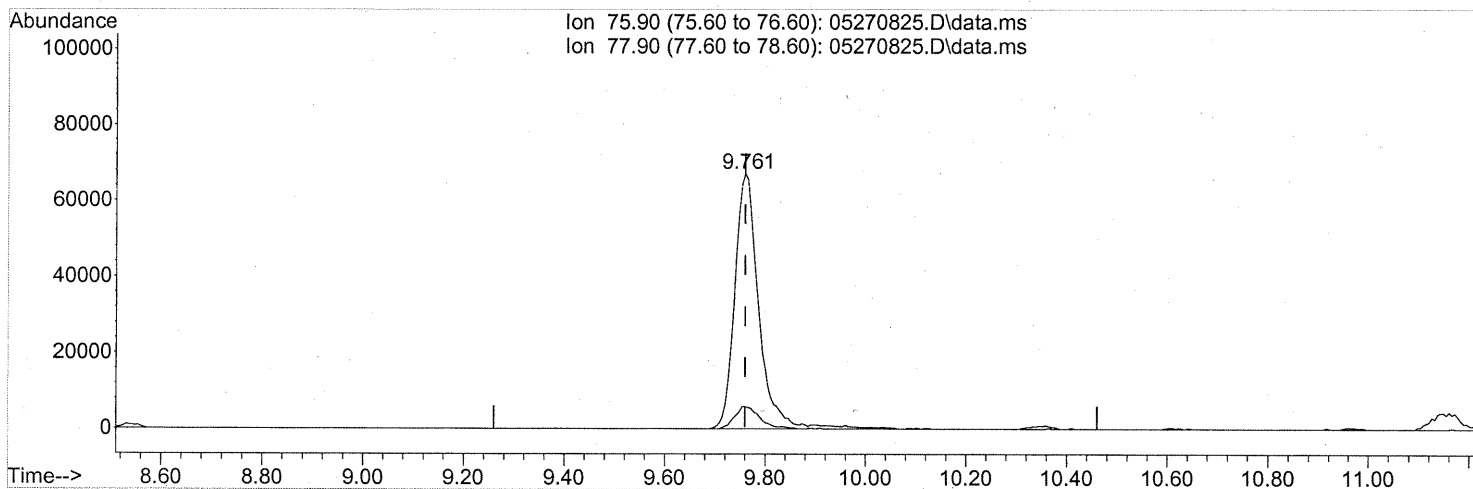
| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 110.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1260

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.761min (-0.000) 1.71ng

response 216207

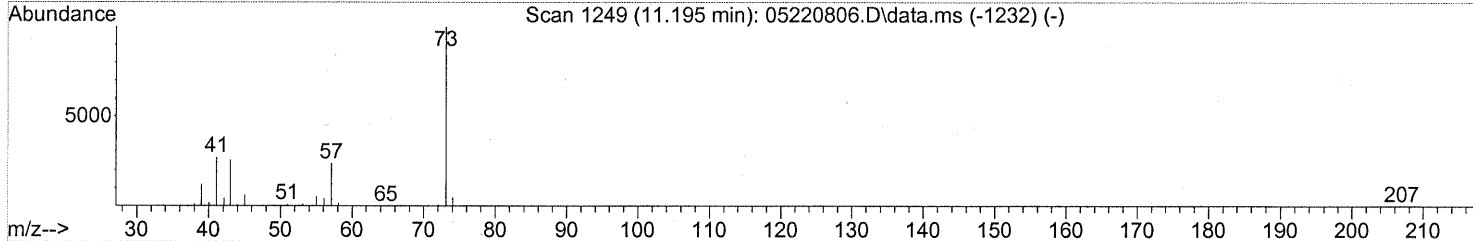
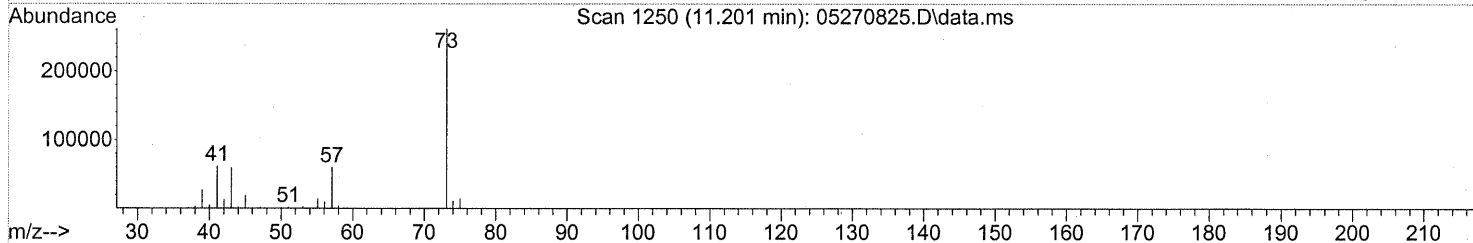
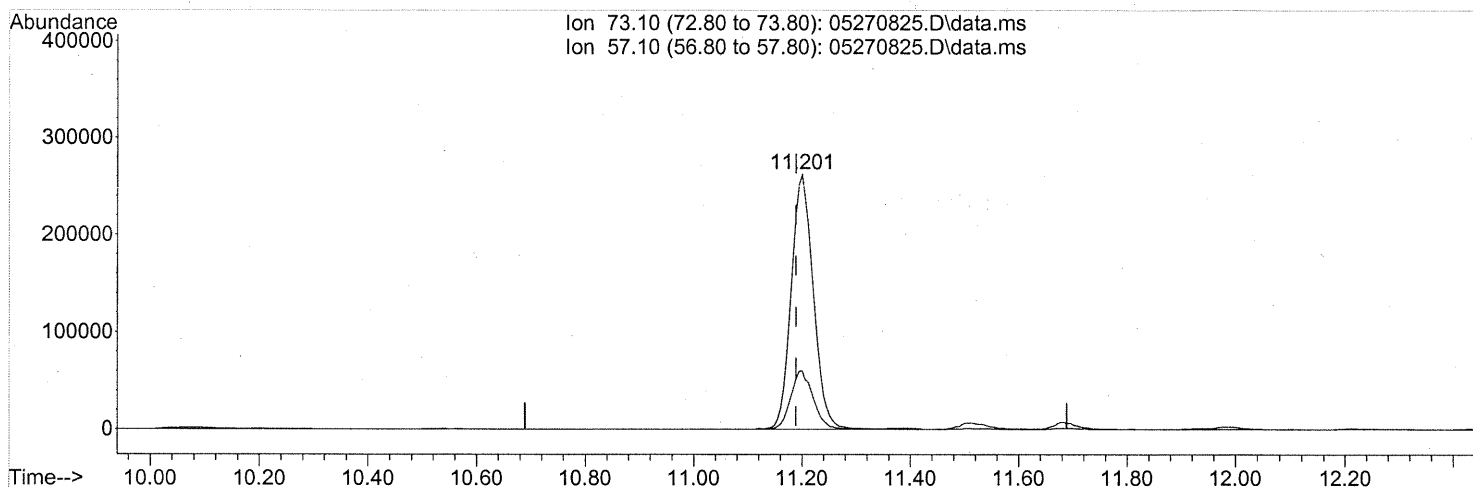
| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 9.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1261

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 2:37
Operator : WA
Sample : P0801483-027 (1000ml)
Misc : ENSR SG07B-05 (-3.8, 3.7)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270825.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.201min (+0.011) 7.71ng

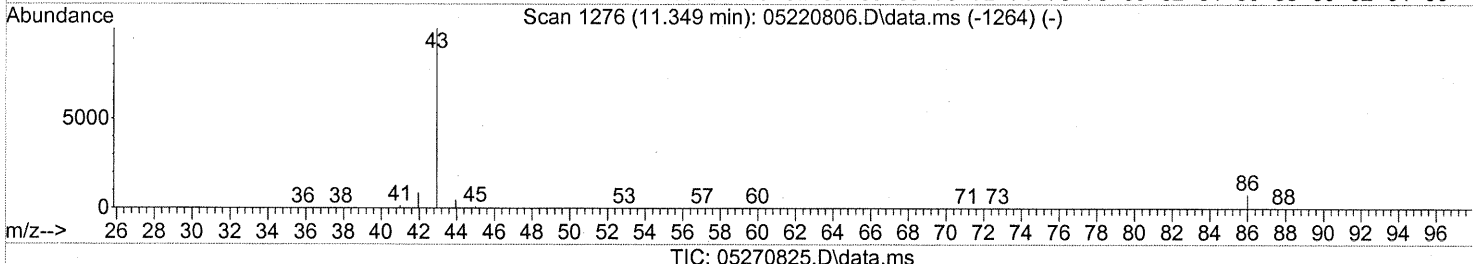
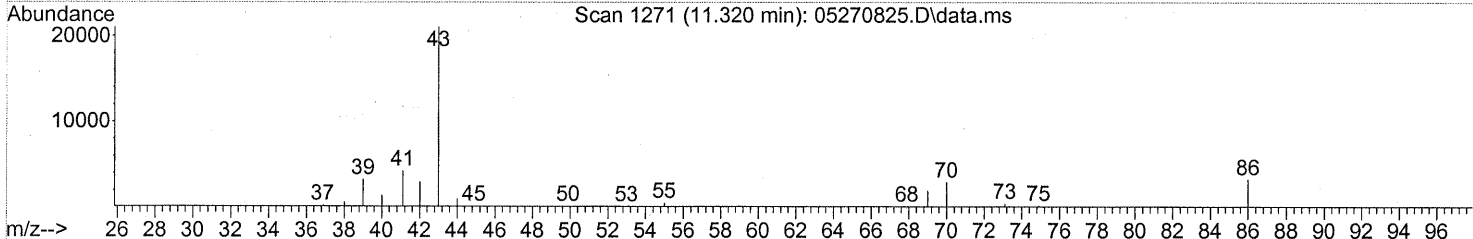
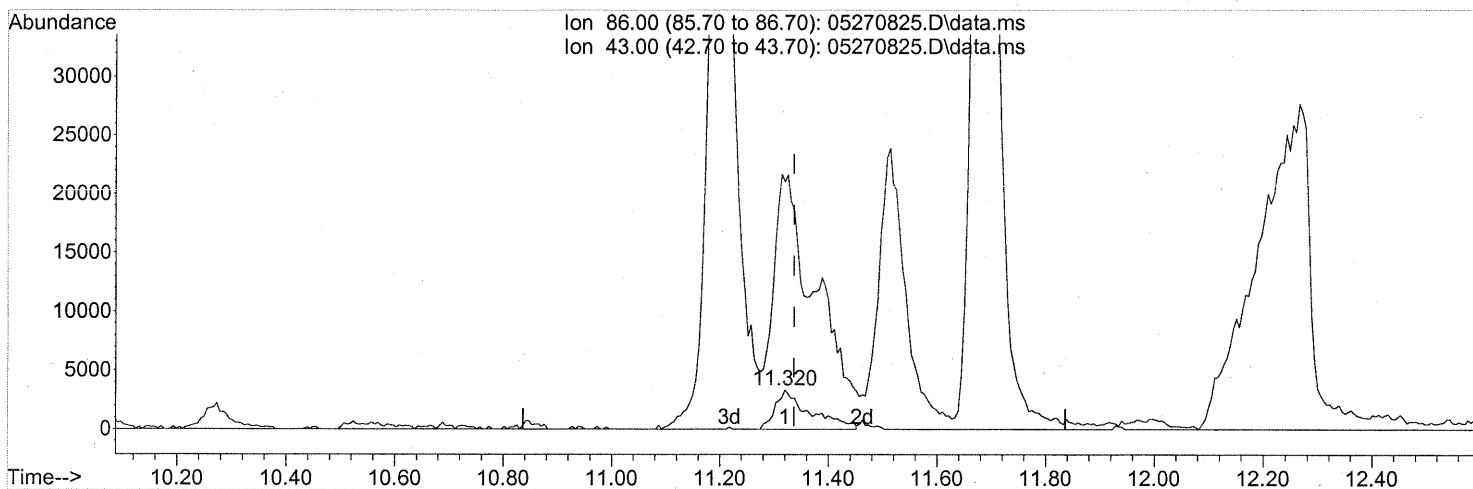
response 744144

| Ion | Exp% | Act% |
|-------|-------|-------|
| 73.10 | 100 | 100 |
| 57.10 | 31.40 | 23.08 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.320min (-0.017) 2.64ng

response 14555

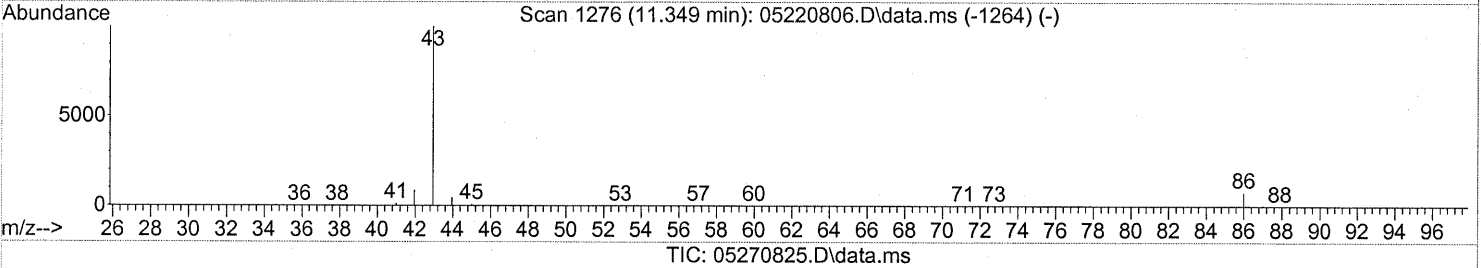
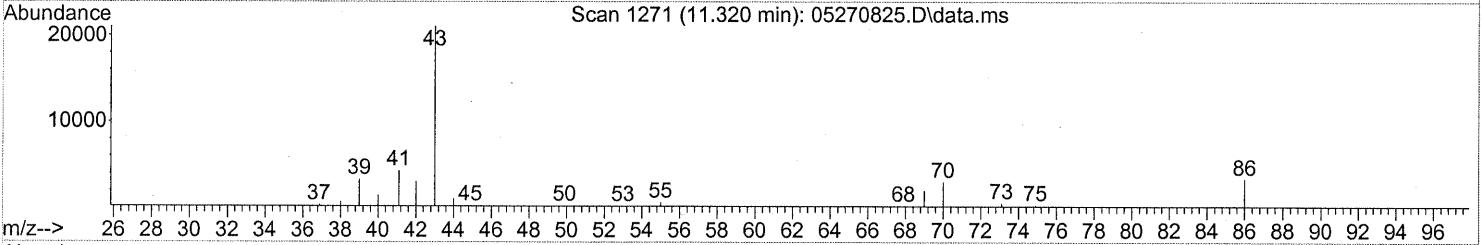
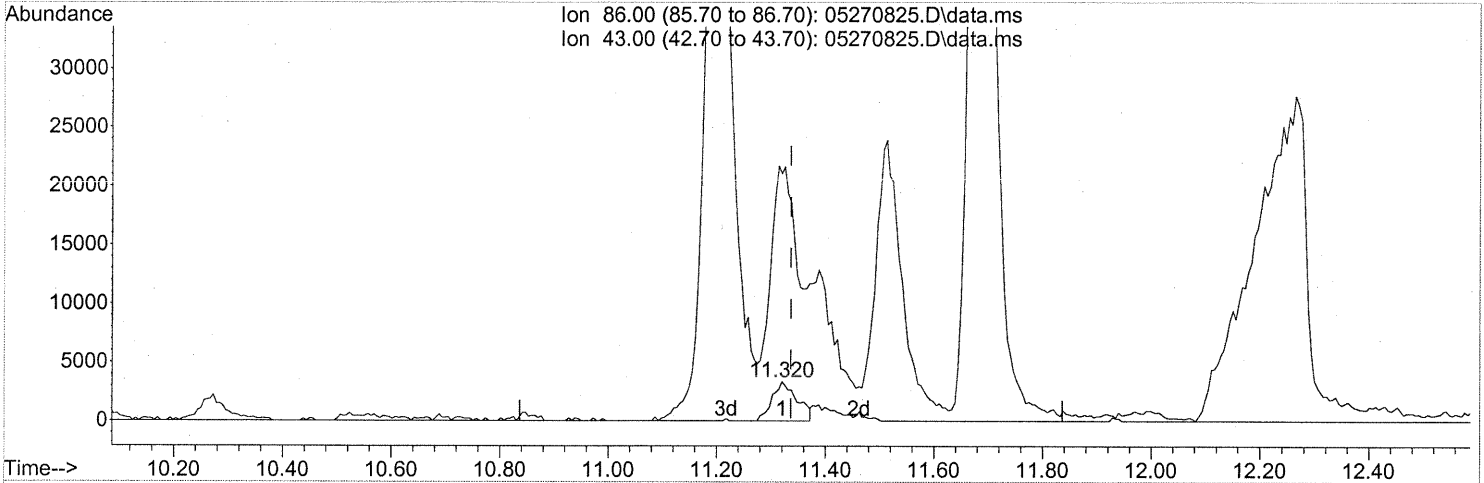
| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 821.01# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

scaling

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.320min (-0.017) 1.91ng m
 response 10541

| Ion | Exp% | Act% |
|-------|---------|----------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 1133.65# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Cat off tubing

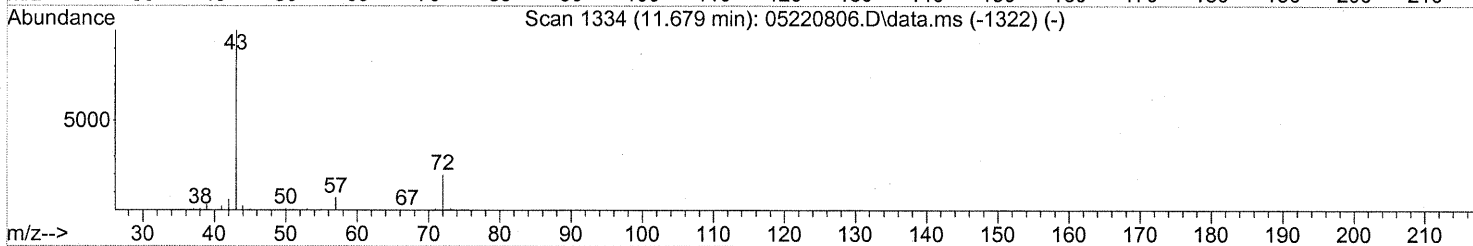
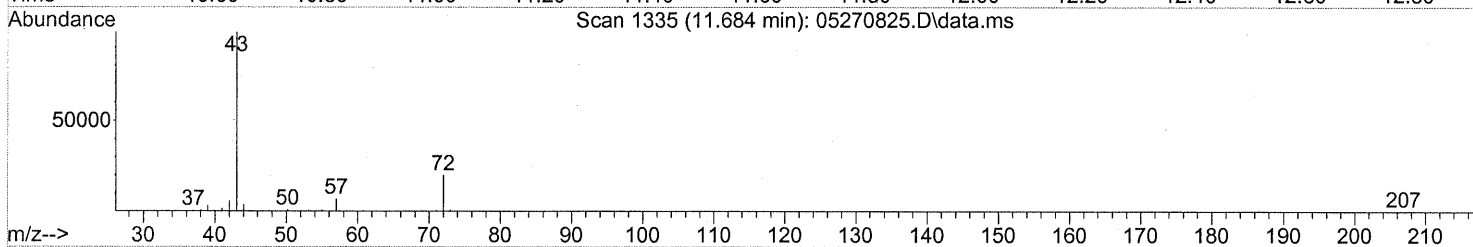
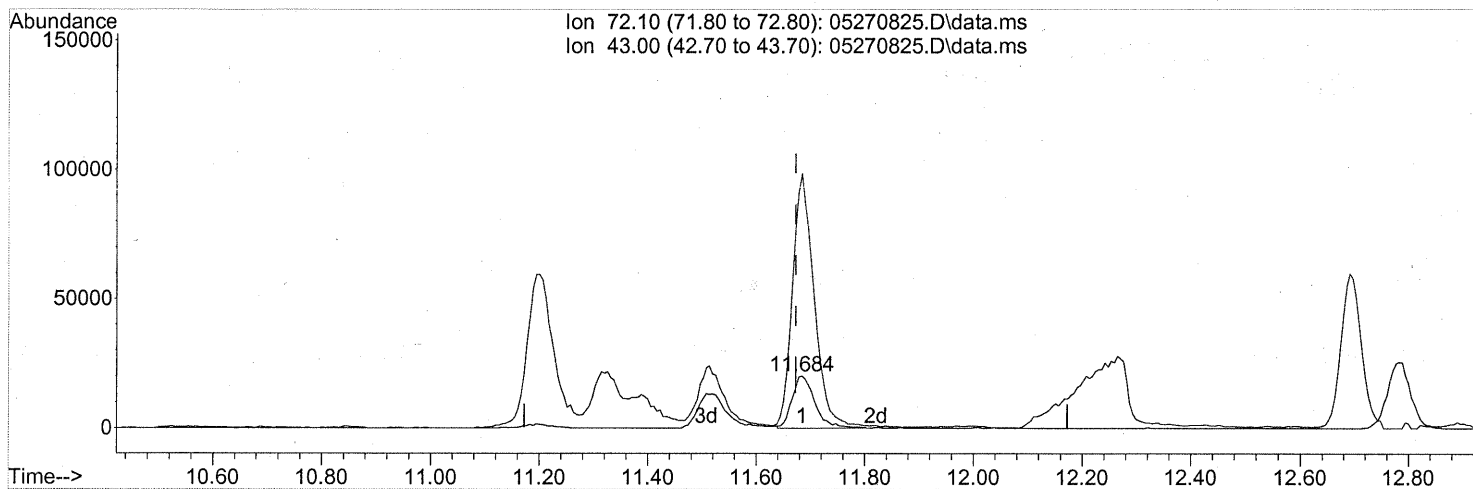
DA 6/2/08

1264

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(27) 2-Butanone (T)
 11.684min (+0.011) 2.65ng
 response 57700

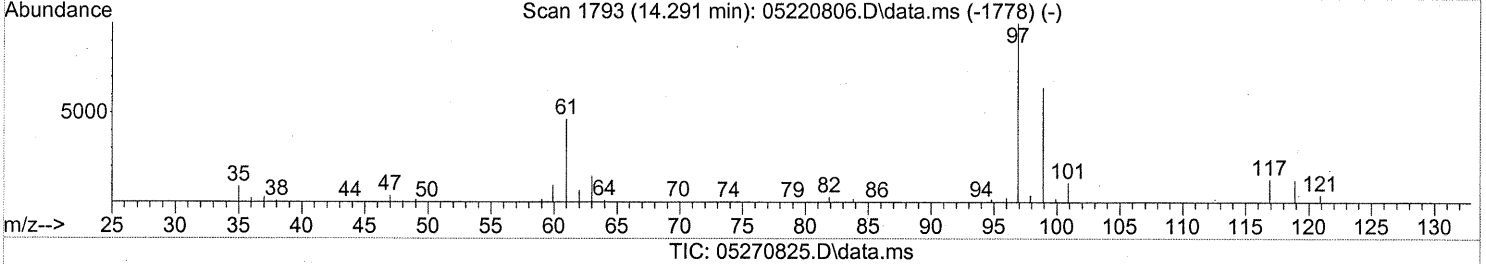
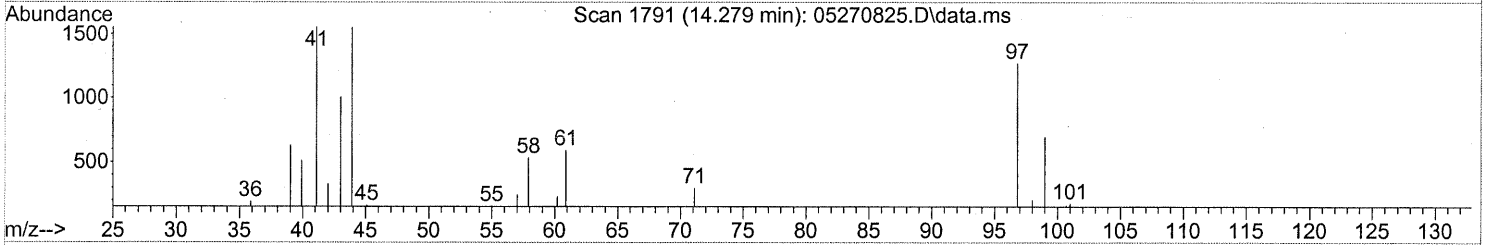
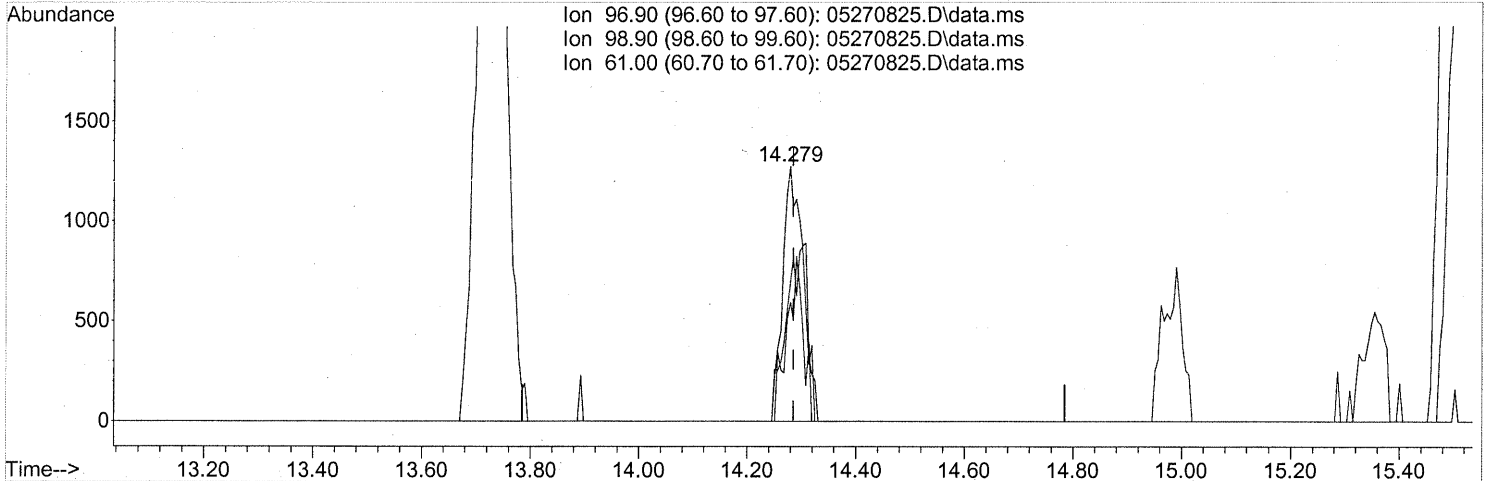
| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 467.65# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1265

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.279min (-0.006) 0.06ng

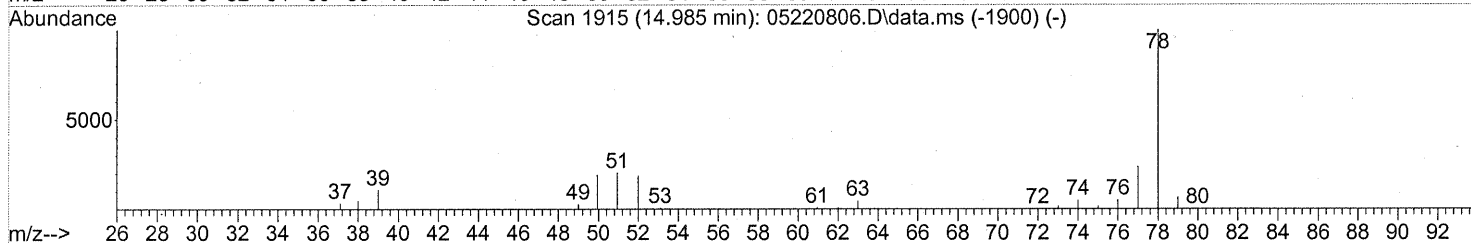
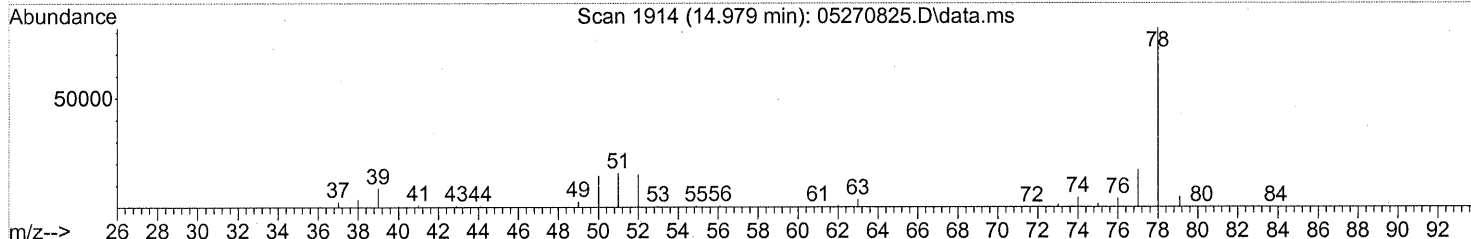
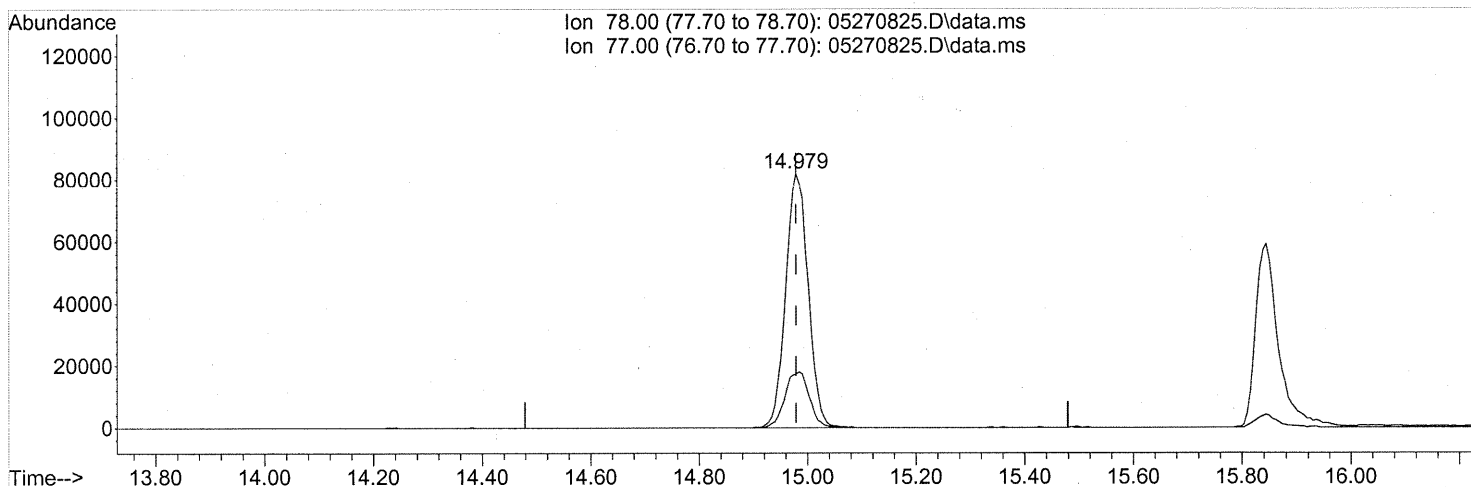
response 3412

| Ion | Exp% | Act% |
|-------|-------|-------|
| 96.90 | 100 | 100 |
| 98.90 | 63.40 | 0.00# |
| 61.00 | 50.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(41) Benzene (T)

14.979min (-0.000) 1.94ng

response 235183

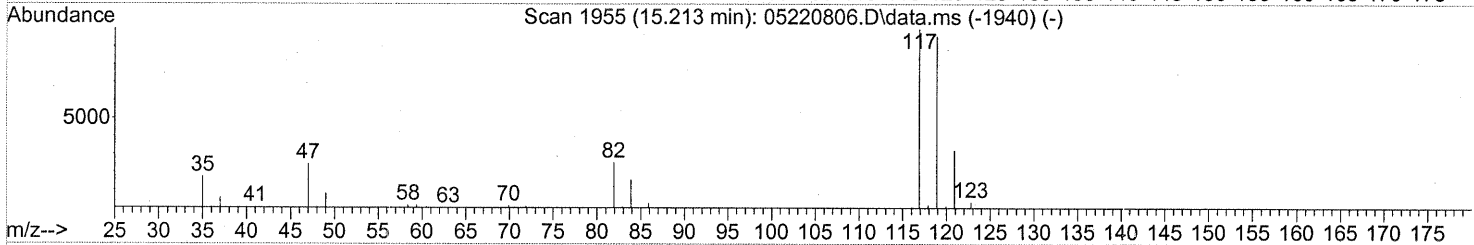
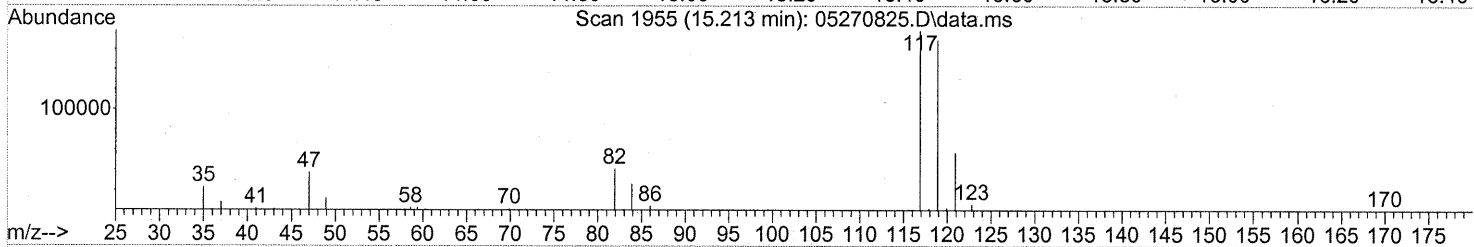
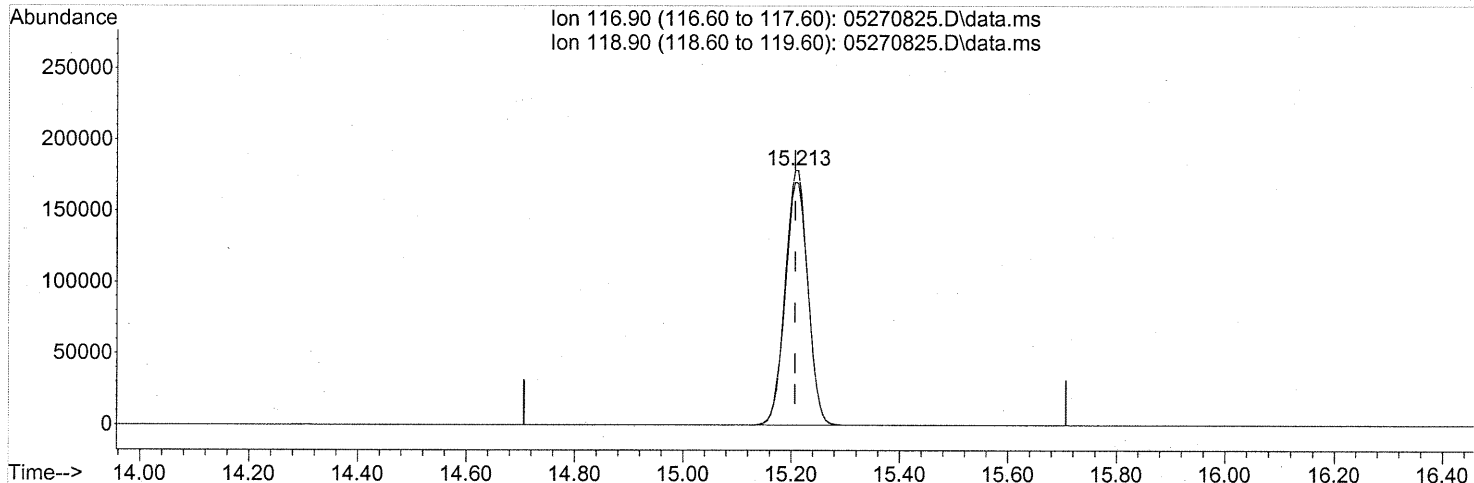
| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 23.63 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1267

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 11.06ng

response 516343

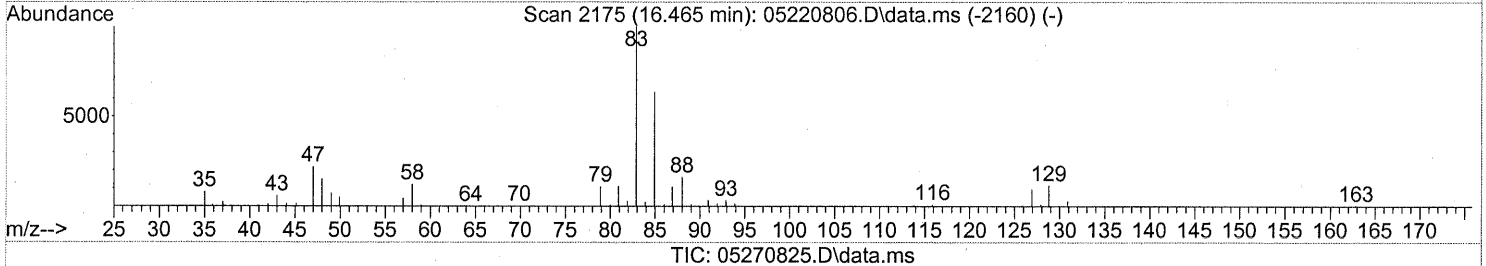
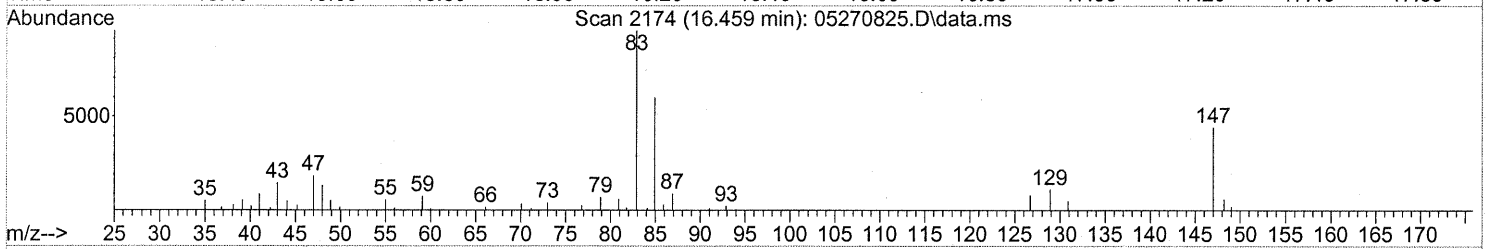
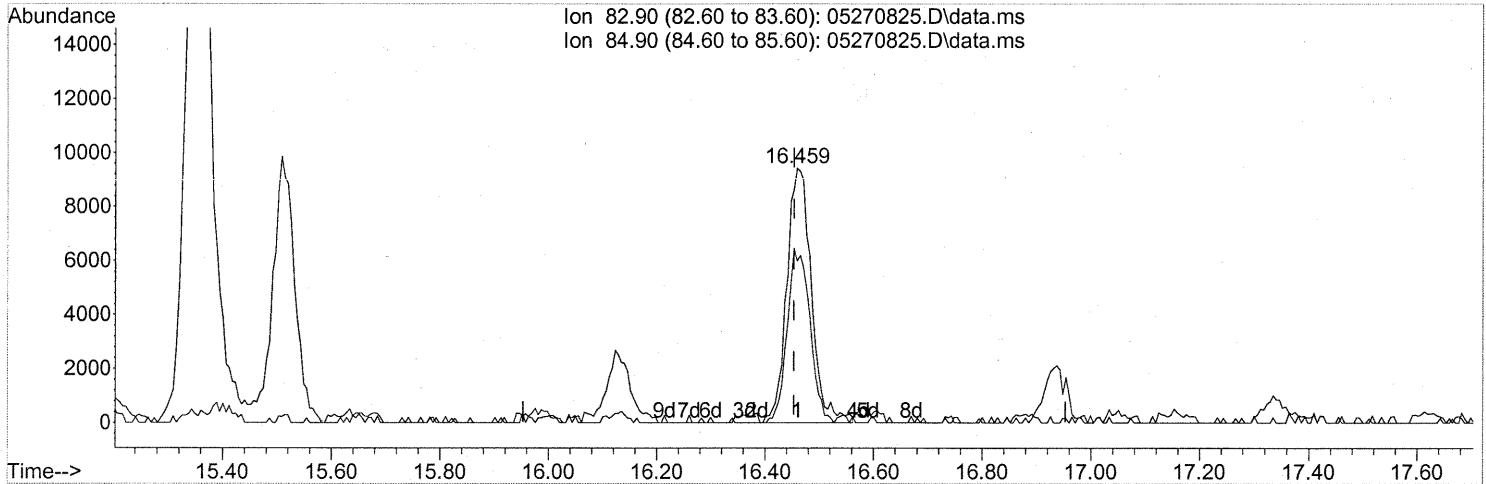
| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 96.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1268

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.72ng

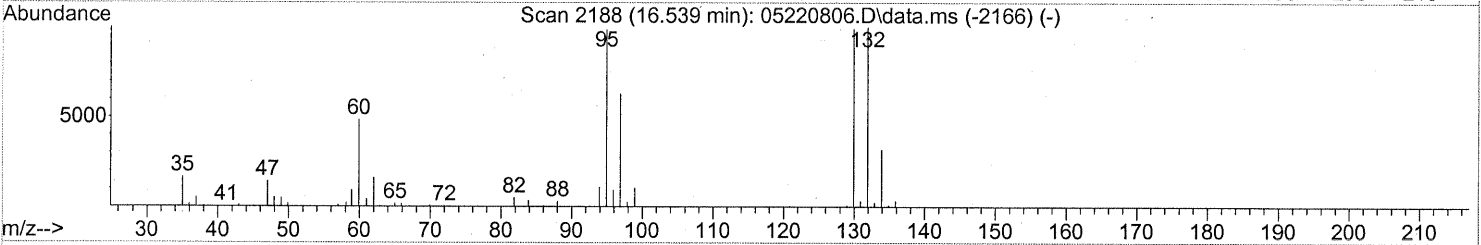
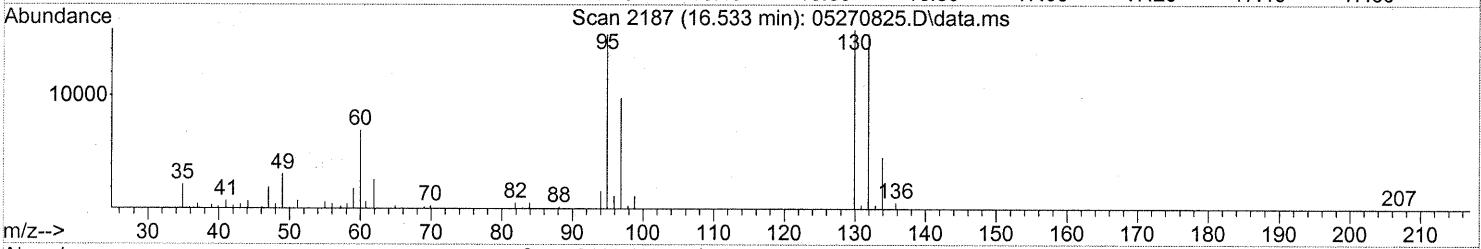
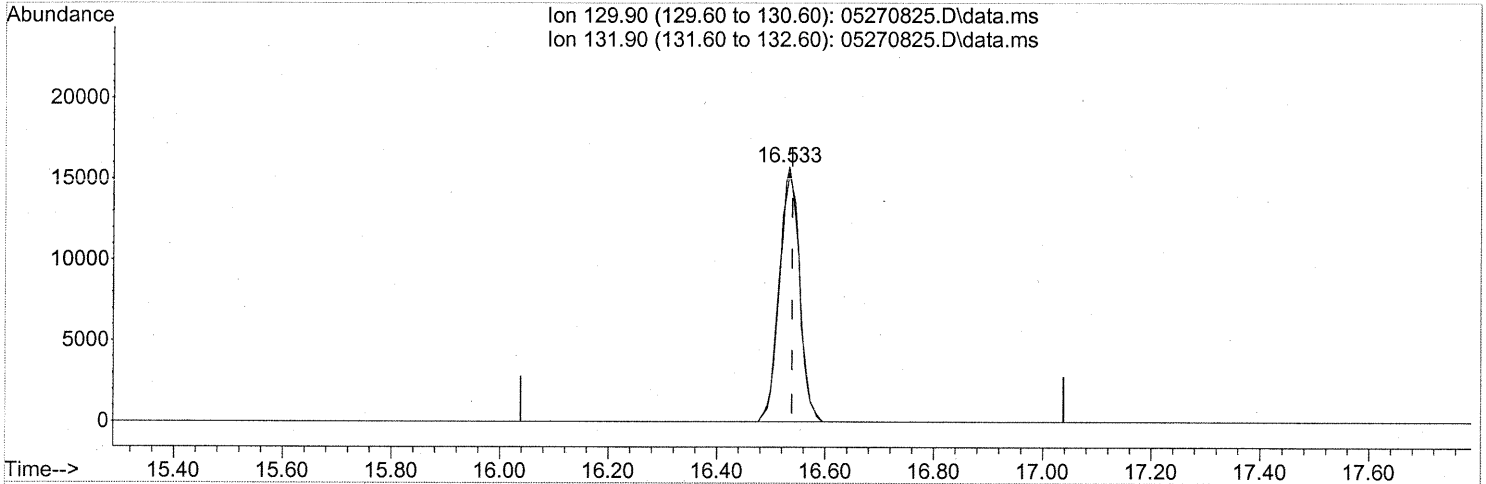
response 29674

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 63.26 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(47) Trichloroethene (T)
 16.533min (-0.006) 1.08ng
 response 40302

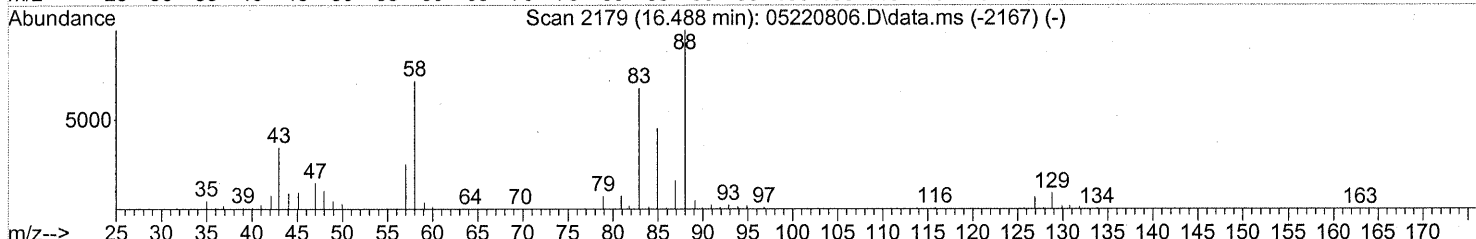
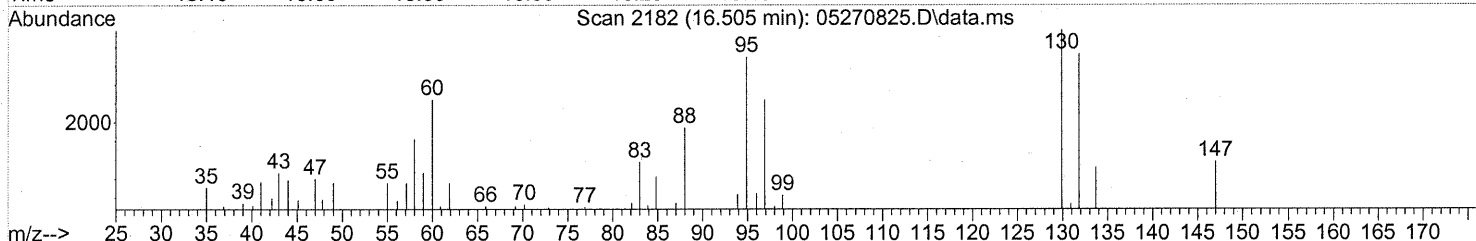
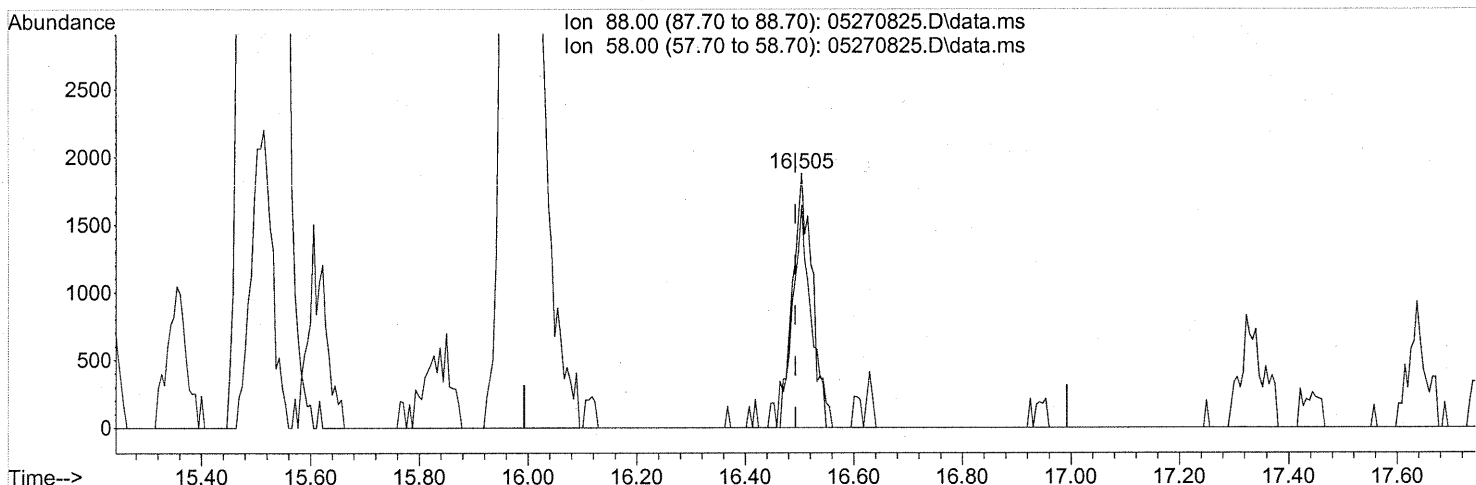
| Ion | Exp% | Act% |
|--------|--------|-------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 99.75 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1270

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.505min (+0.011) 0.20ng

response 4618

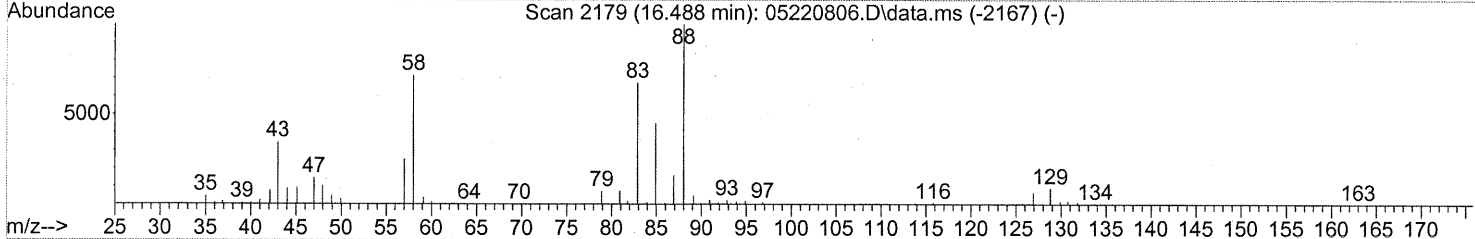
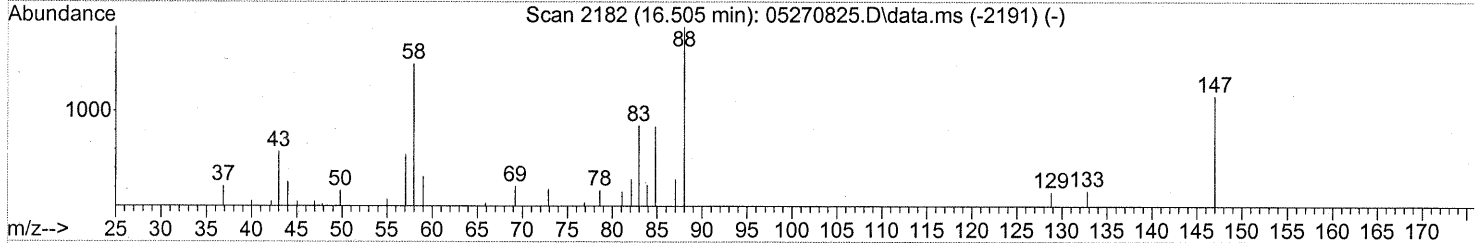
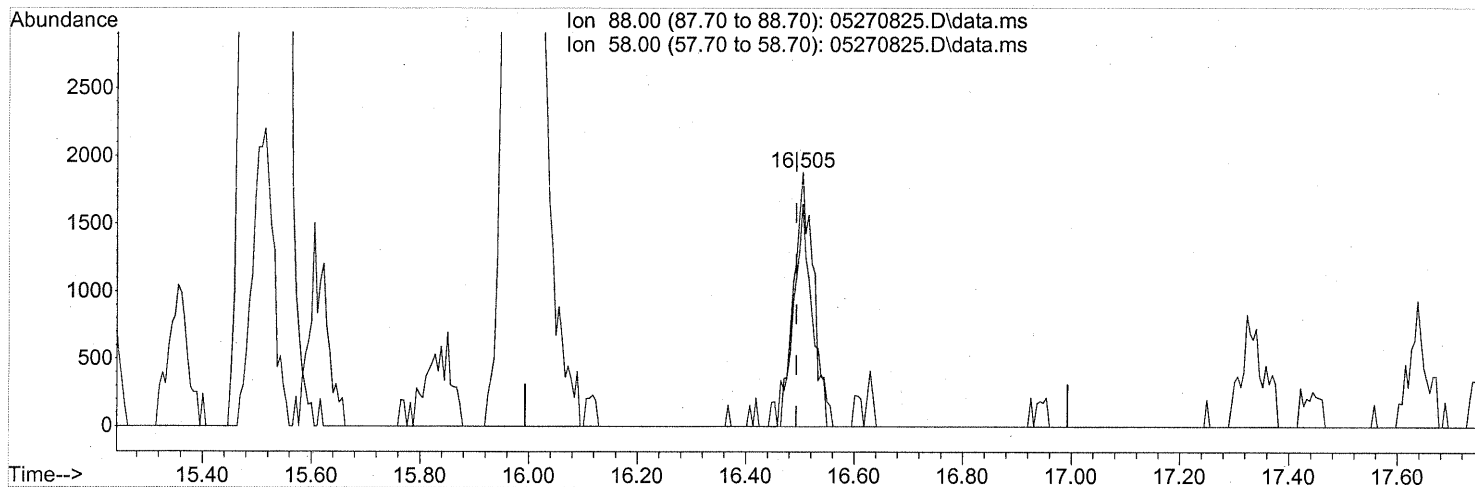
before

| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 90.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(48) 1,4-Dioxane (T)
 16.505min (+0.011) 0.20ng
 response 4618

| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 90.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

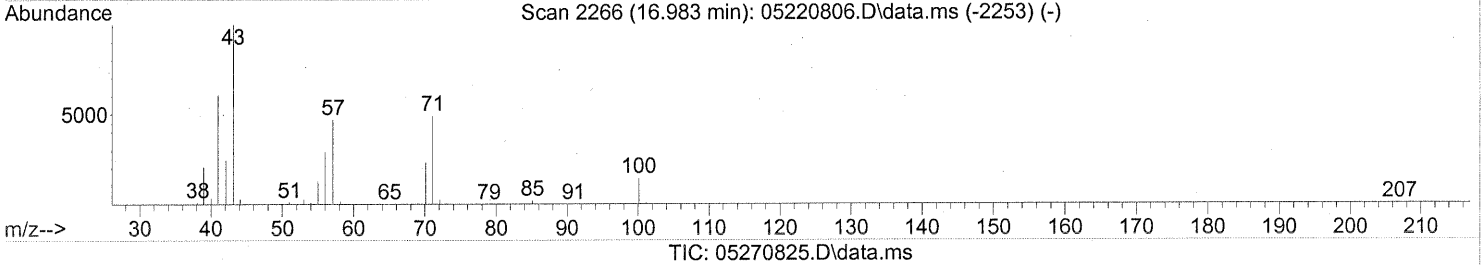
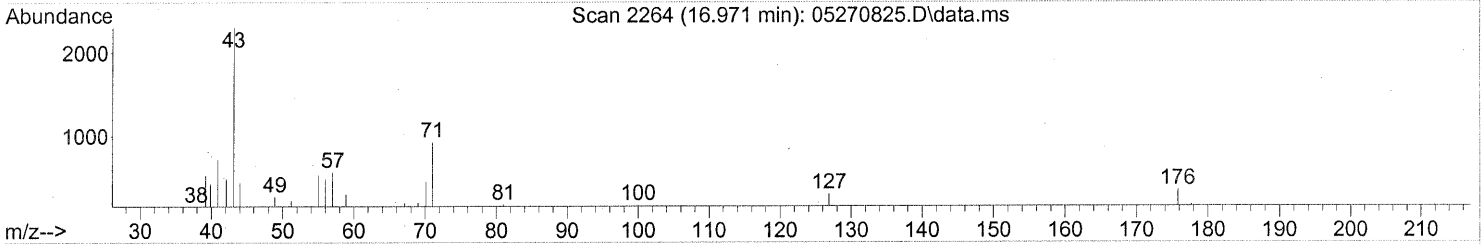
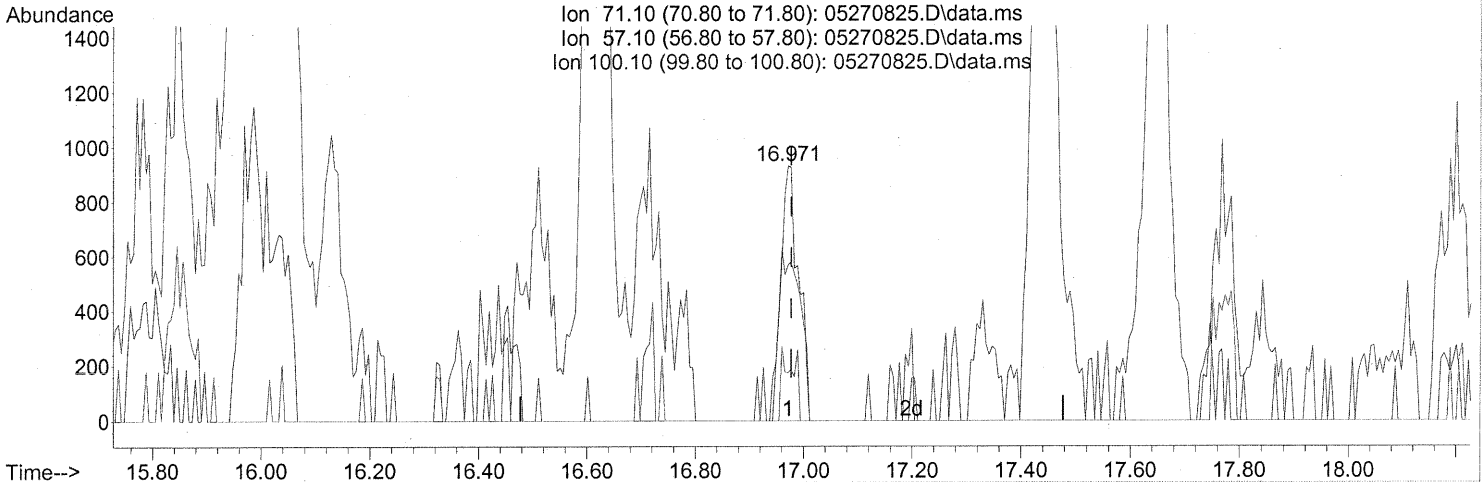
after substr.

PA 6/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37 am
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:44:44 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(51) n-Heptane (T)

16.971min (-0.006) 0.06ng

response 2075

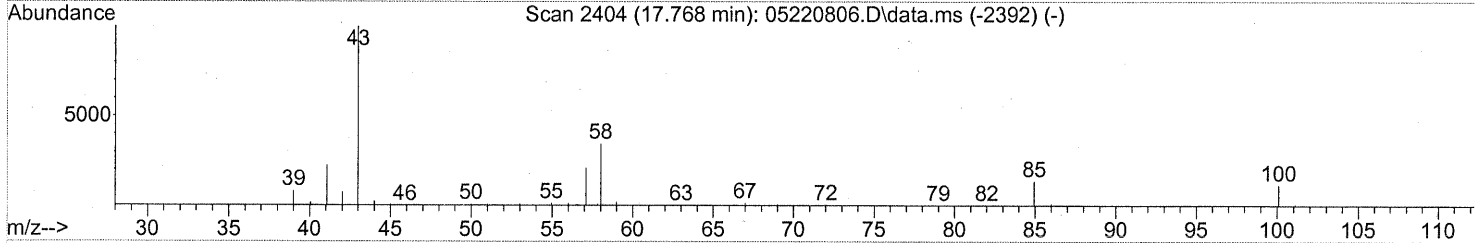
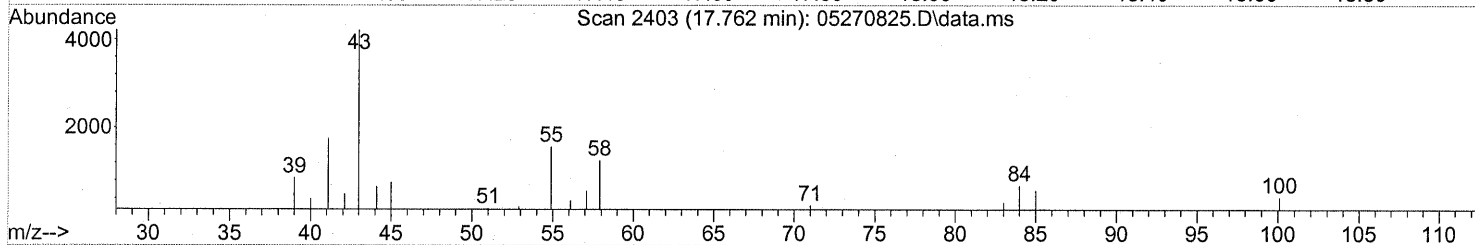
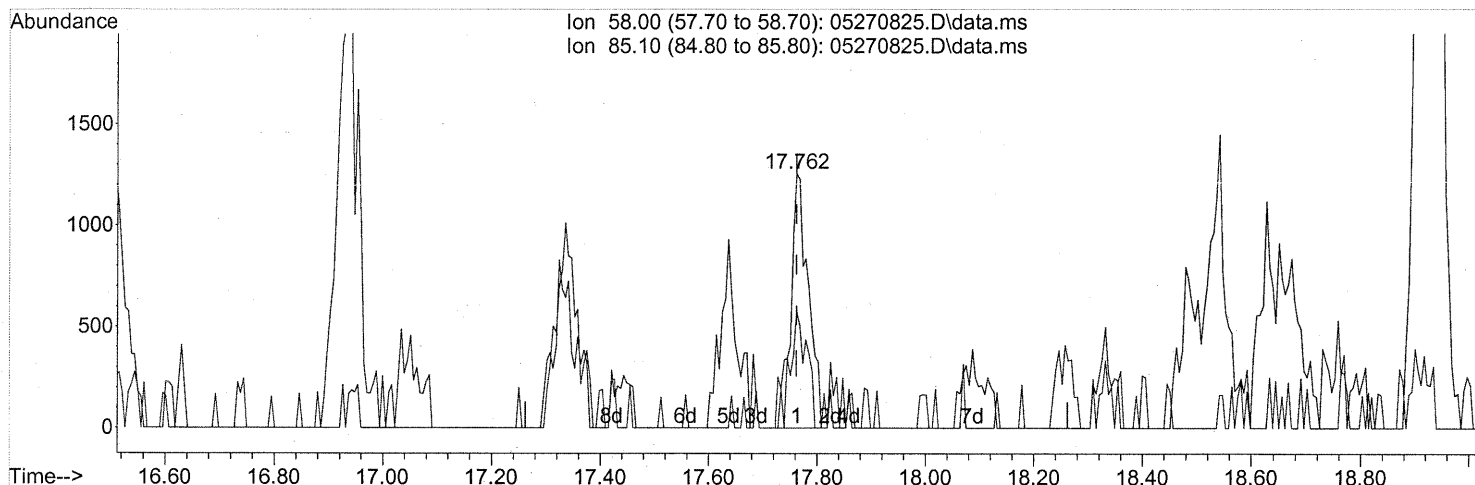
| Ion | Exp% | Act% |
|--------|--------|--------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 85.35# |
| 100.10 | 30.10 | 20.14 |
| 0.00 | 0.00 | 0.00 |

1273

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.762min (-0.000) 0.09ng

response 2804

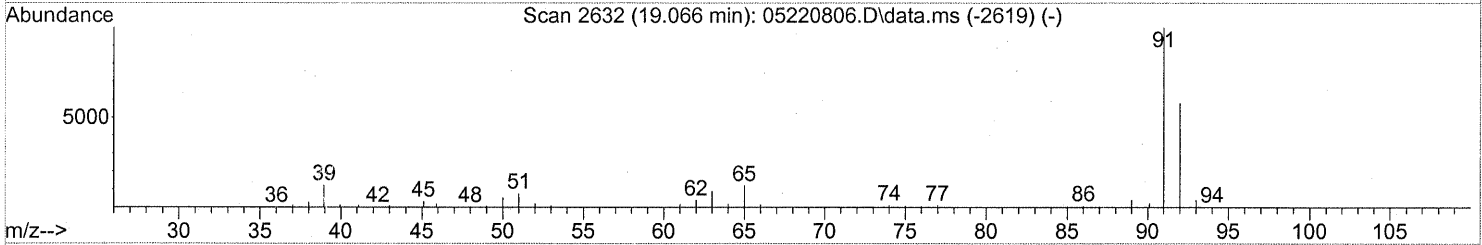
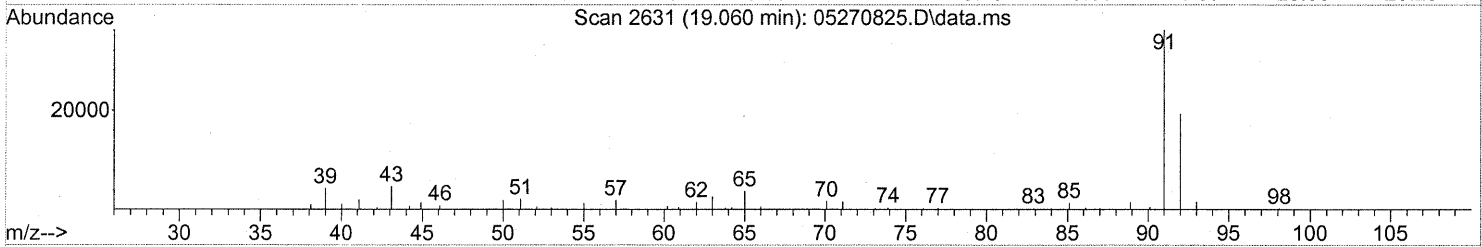
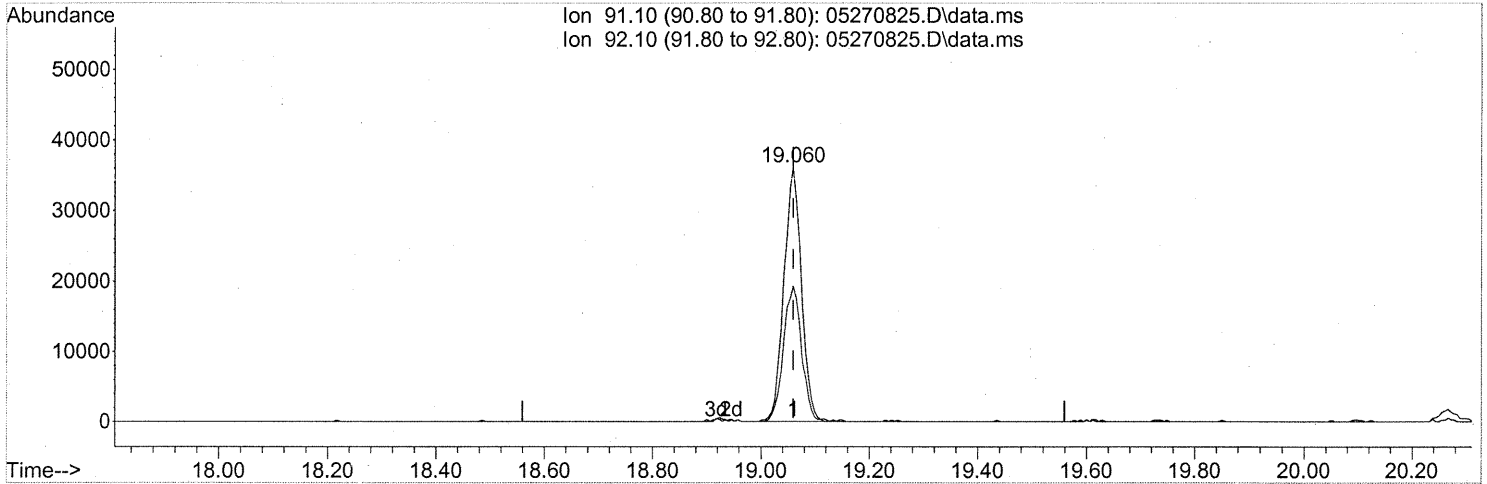
| Ion | Exp% | Act% |
|-------|-------|-------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 41.94 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1274

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.61ng

response 81245

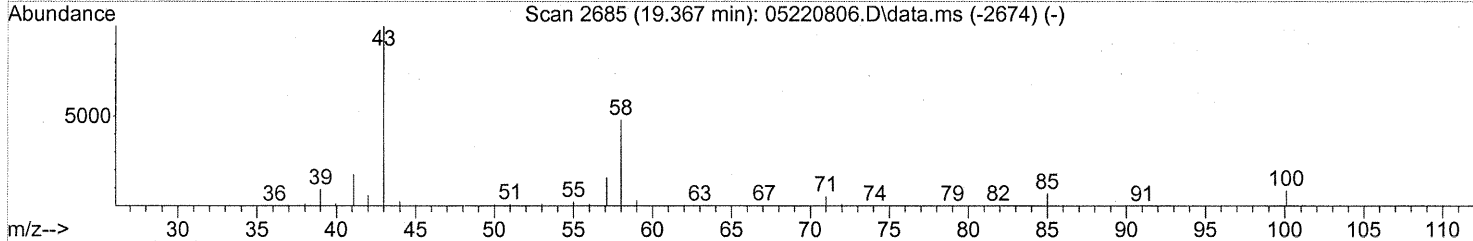
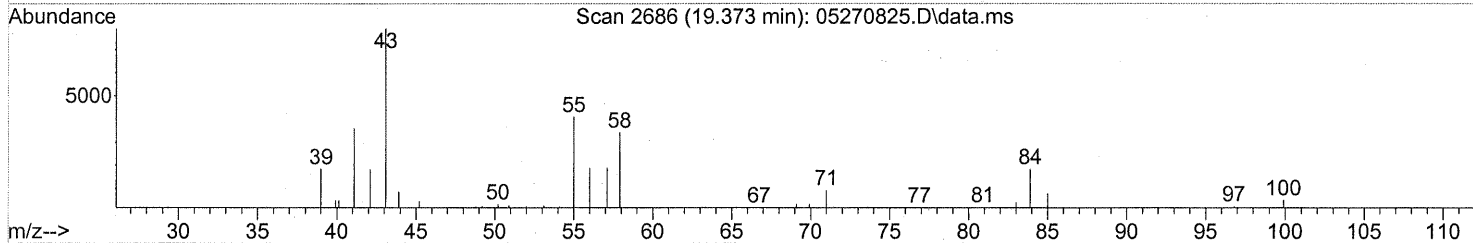
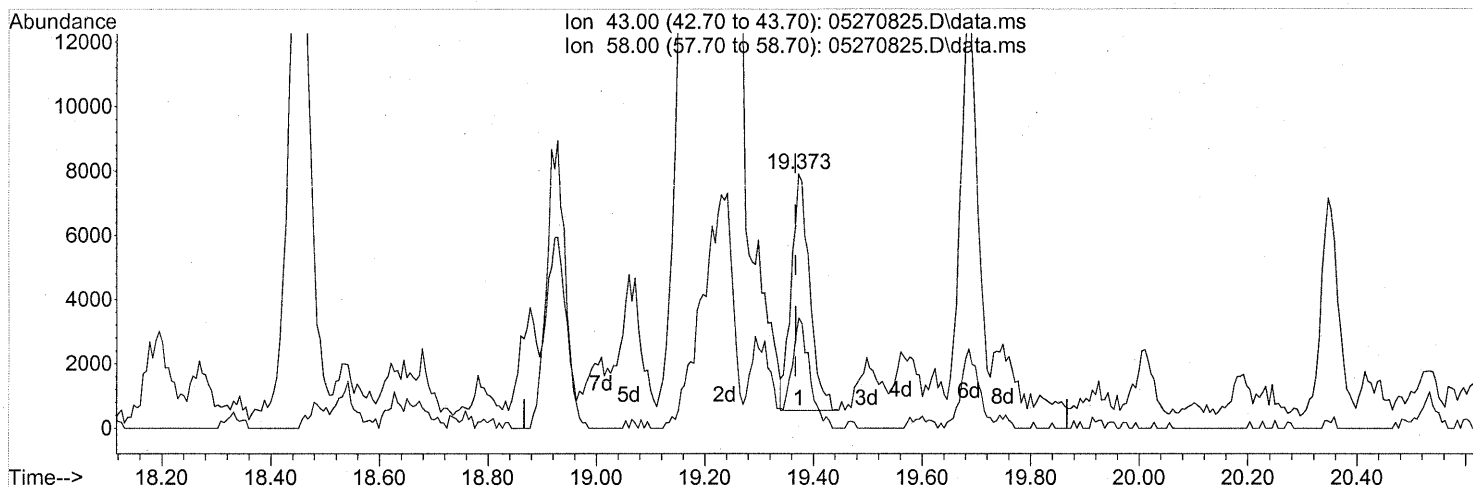
| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 55.06 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1275

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(59) 2-Hexanone (T)
 19.373min (+0.006) 0.19ng
 response 17123

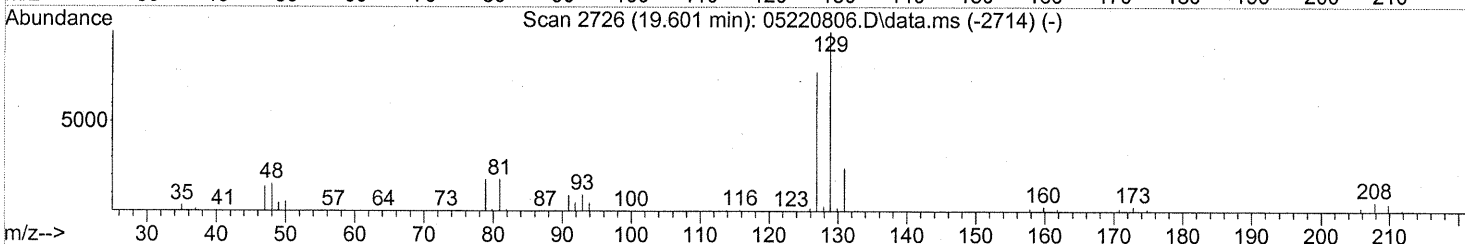
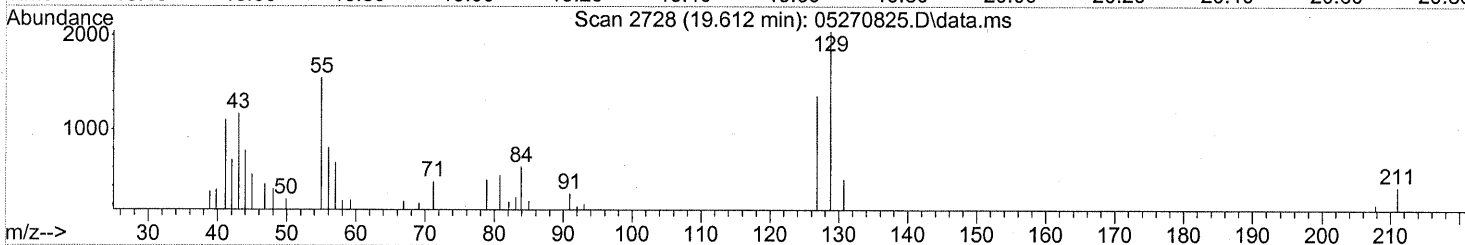
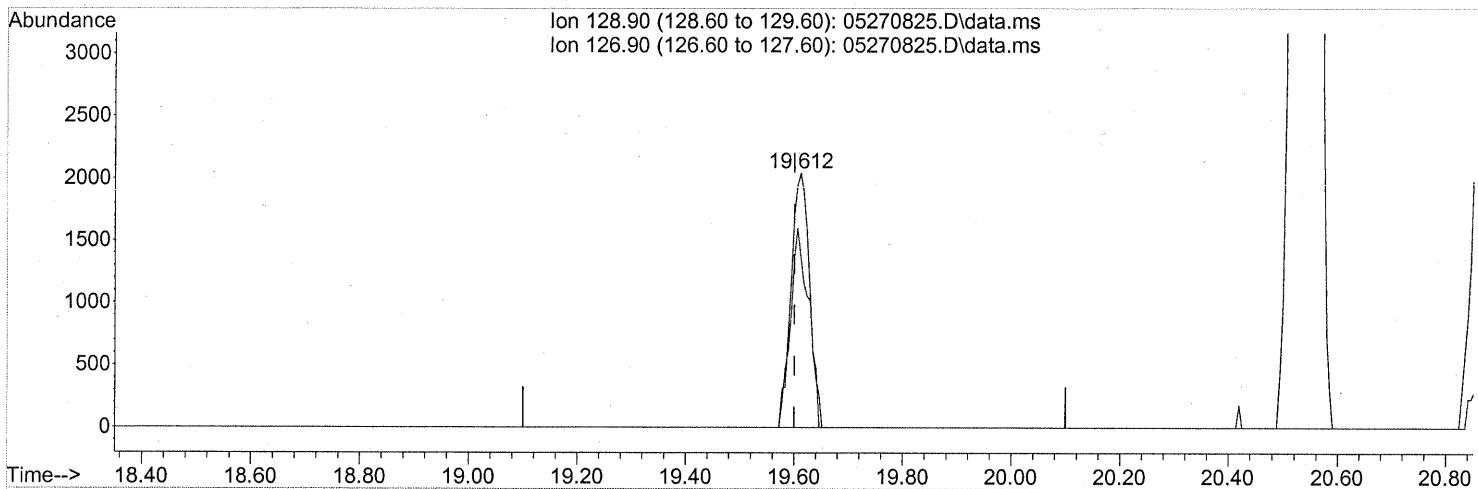
| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 45.32 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1276

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.612min (+0.011) 0.13ng

response 4801

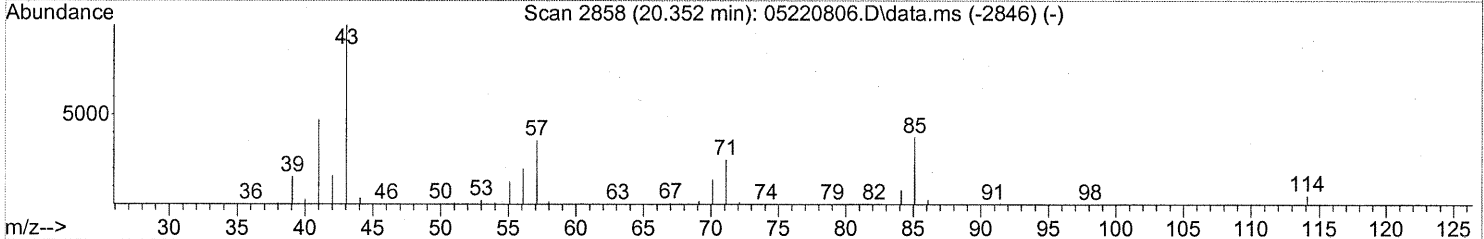
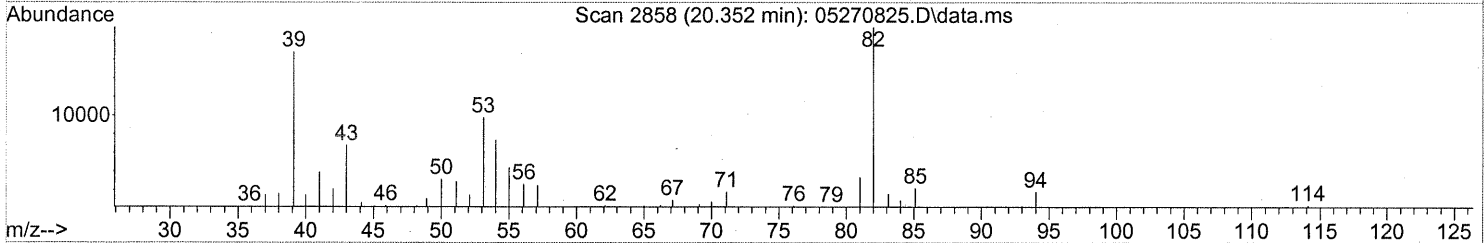
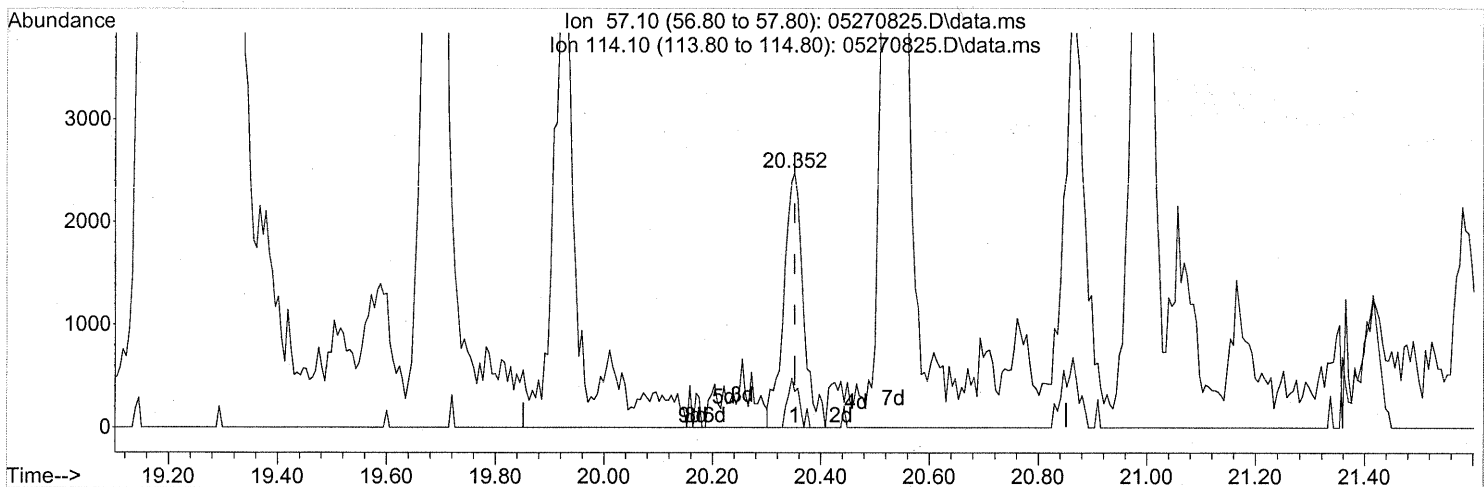
| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.90 | 100 | 100 |
| 126.90 | 76.90 | 76.94 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1277

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(63) n-Octane (T)

20.352min (-0.000) 0.21ng

response 6223

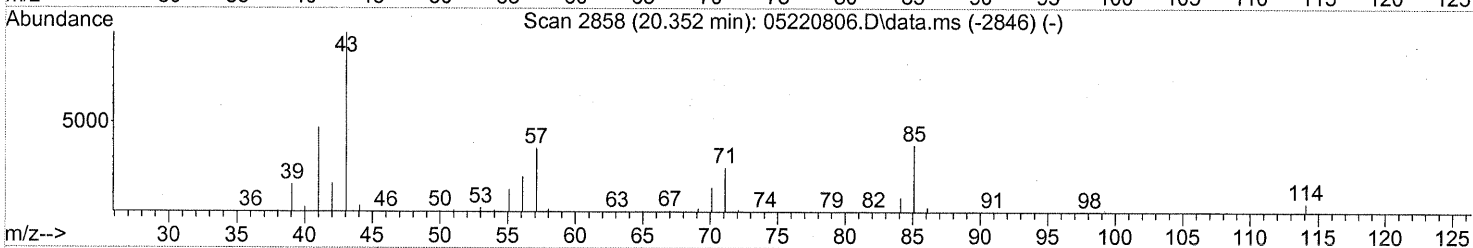
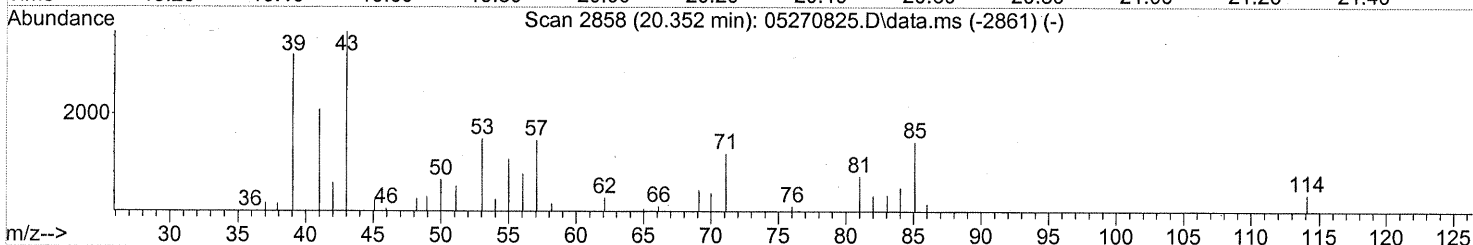
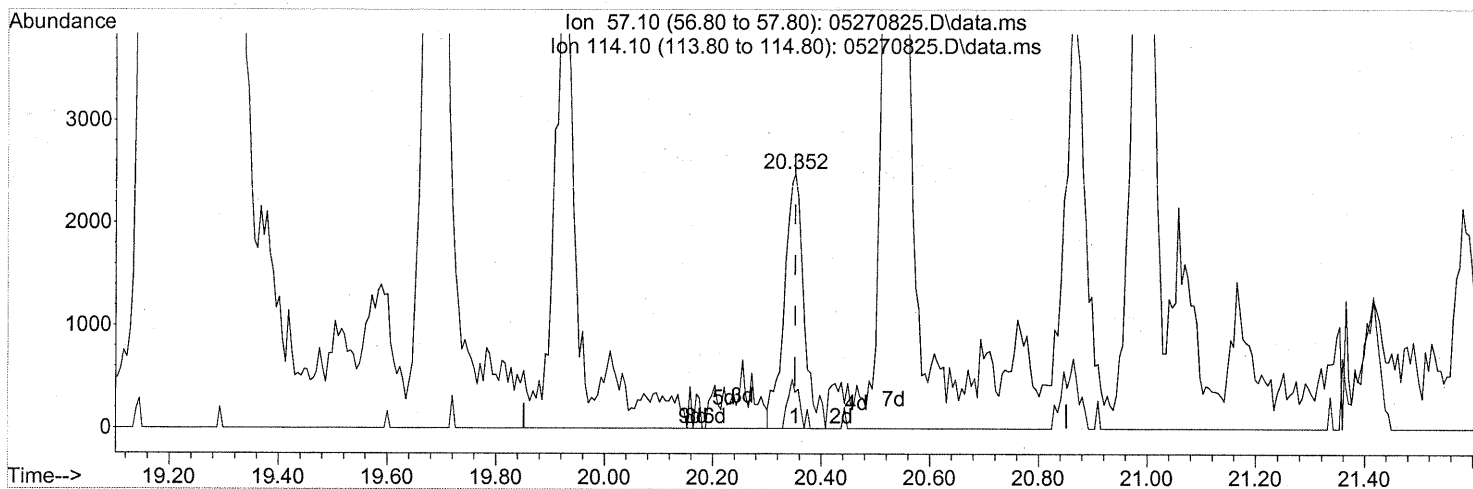
| Ion | Exp% | Act% |
|--------|-------|-------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 11.33 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

before

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(63) n-Octane (T)
 20.352min (-0.000) 0.21ng
 response 6223

| Ion | Exp% | Act% |
|--------|-------|-------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 11.33 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

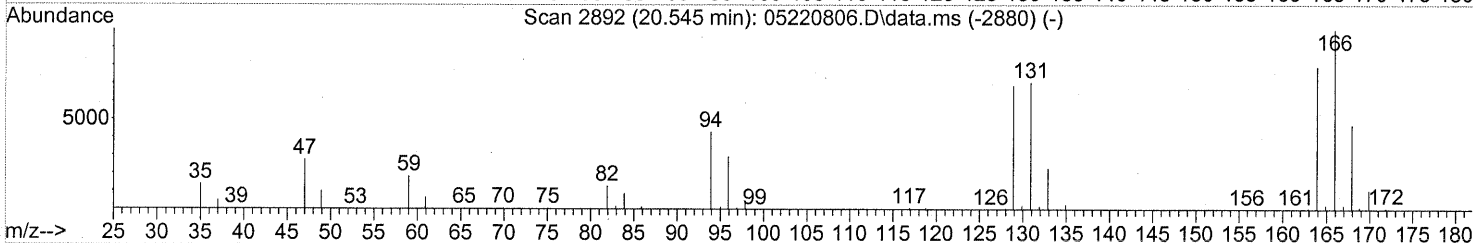
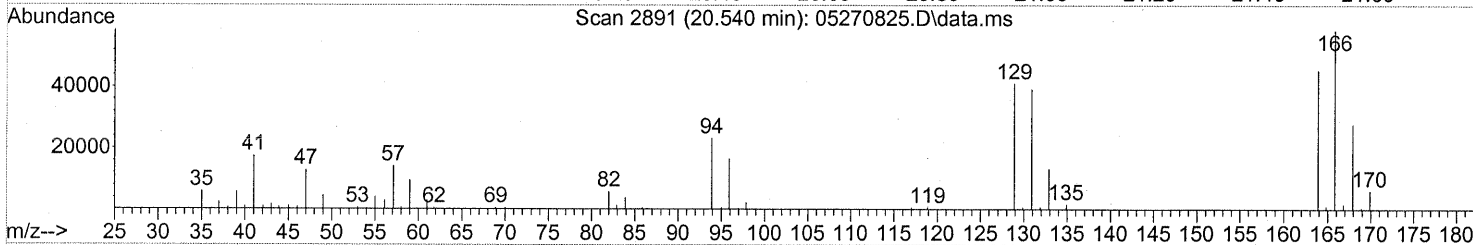
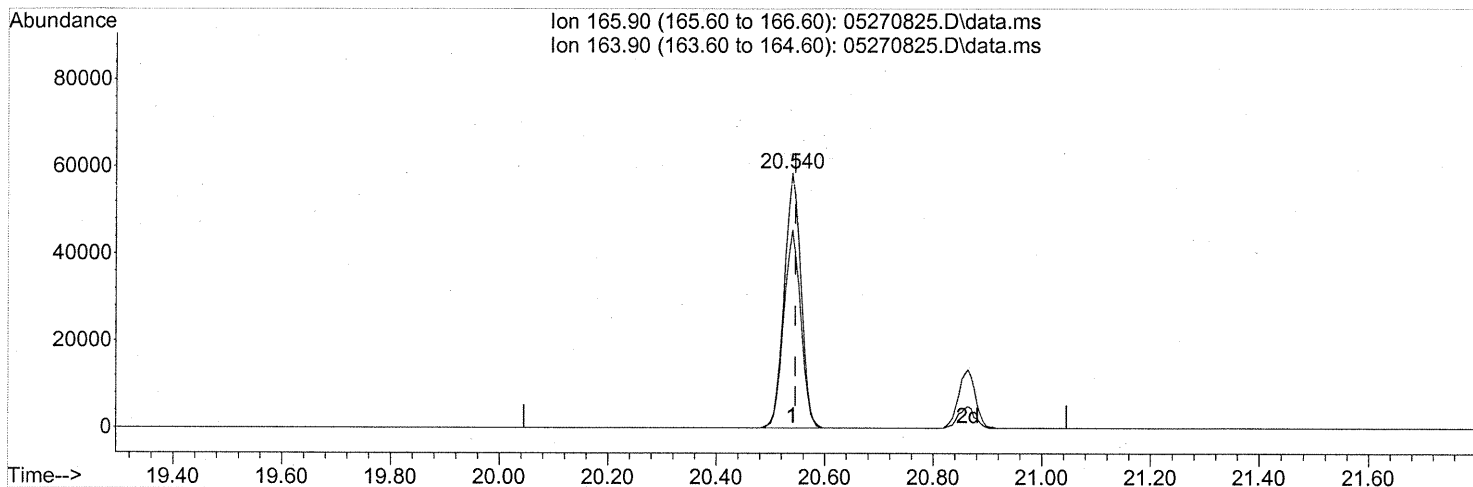
after substr.
WA 6/2/08

1279

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 3.18ng

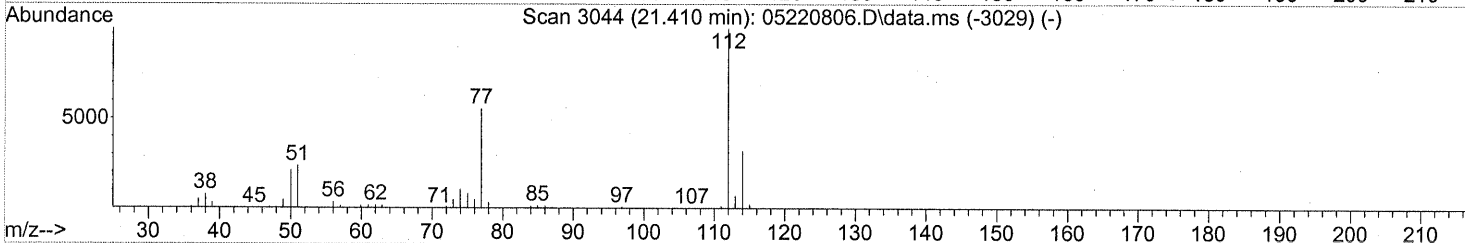
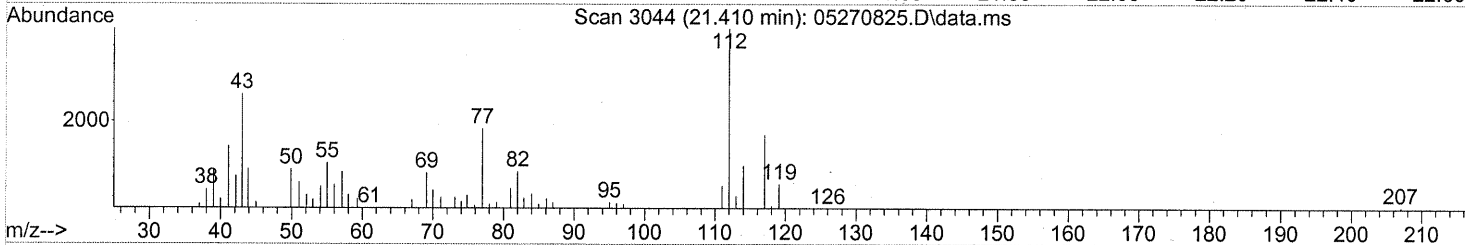
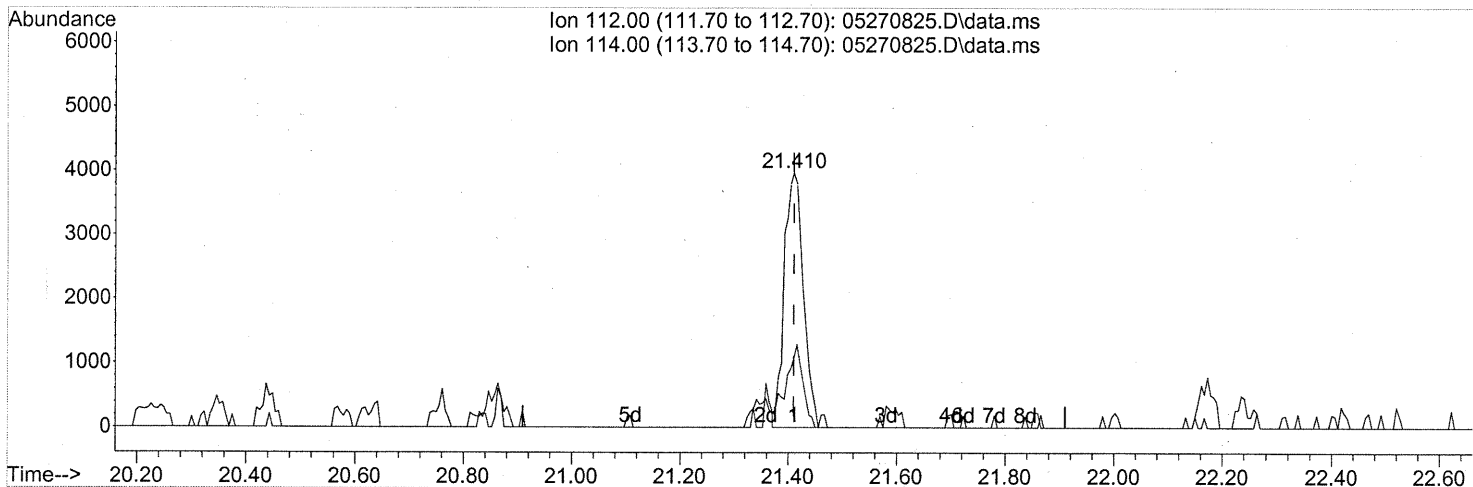
response 124968

| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 78.80 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(65) Chlorobenzene (T)
 21.410min (-0.000) 0.11ng
 response 9656

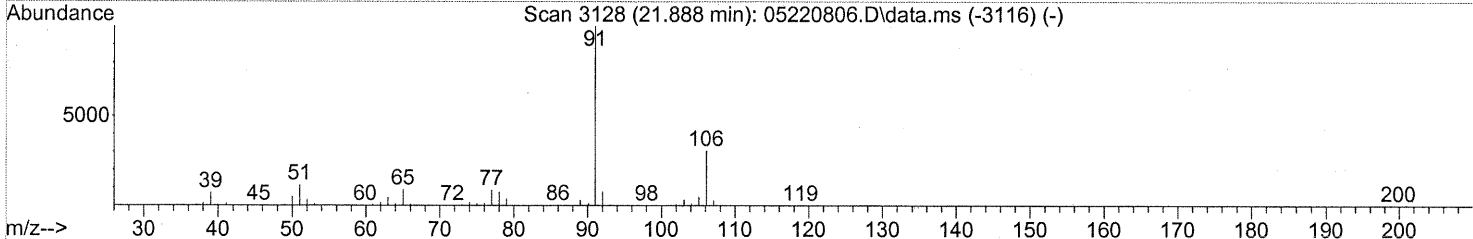
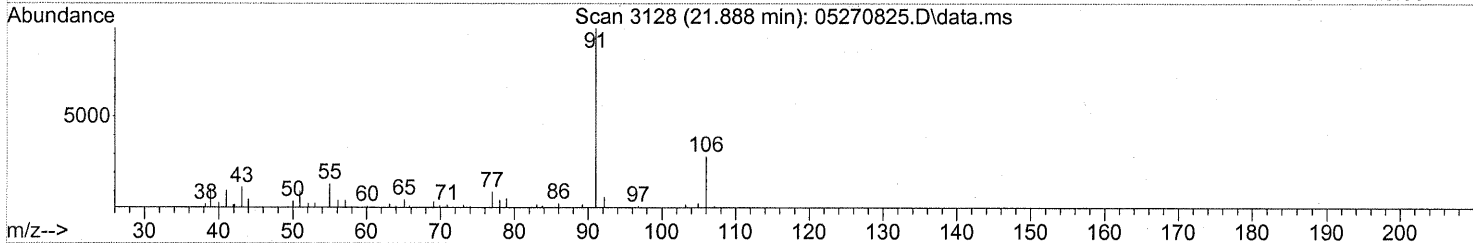
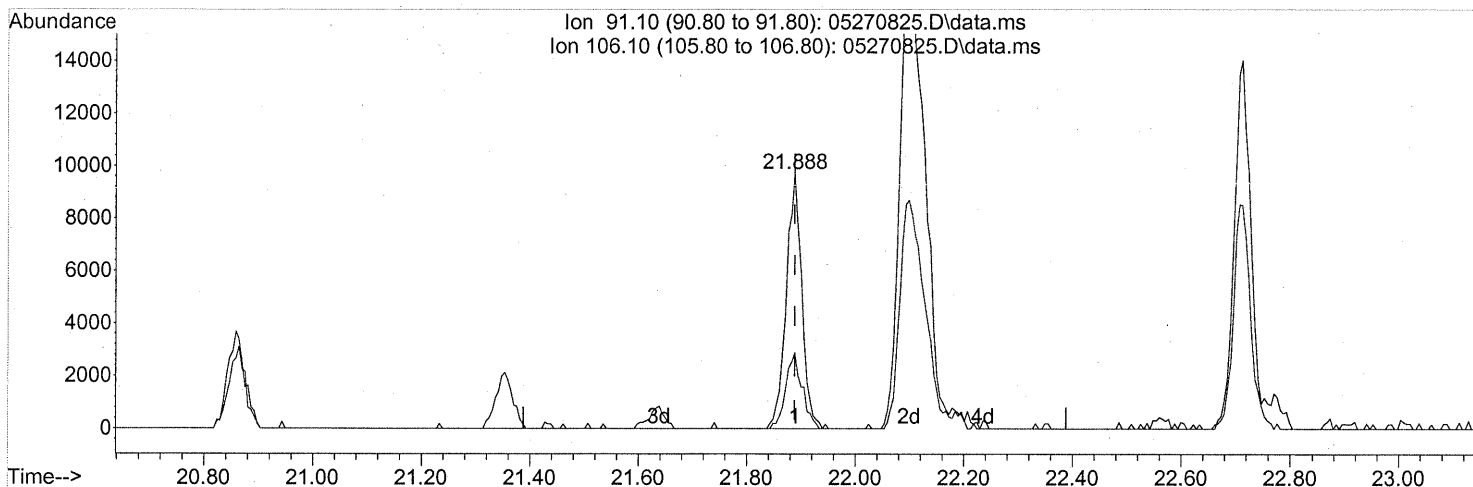
| Ion | Exp% | Act% |
|--------|-------|-------|
| 112.00 | 100 | 100 |
| 114.00 | 32.40 | 28.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1281

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(66) Ethylbenzene (T)

21.888min (-0.000) 0.13ng

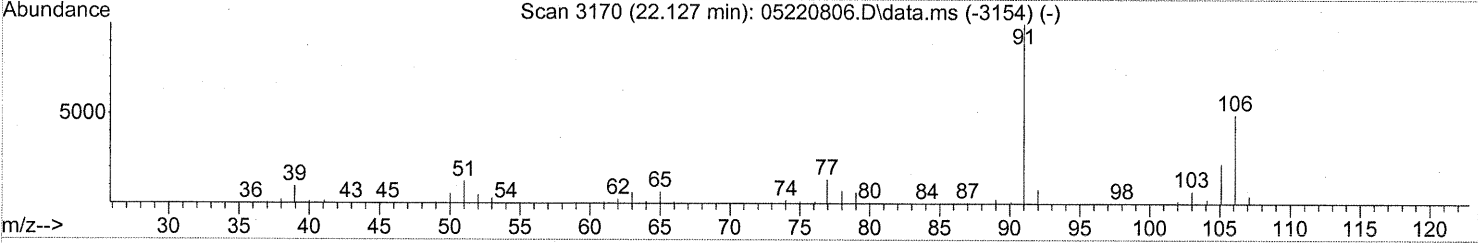
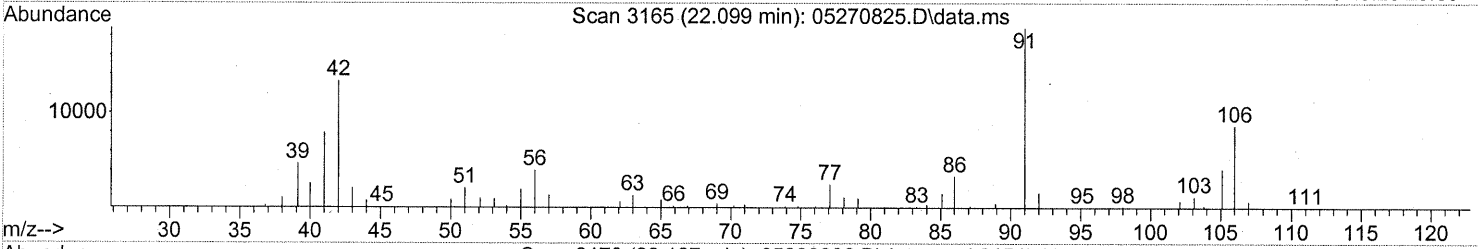
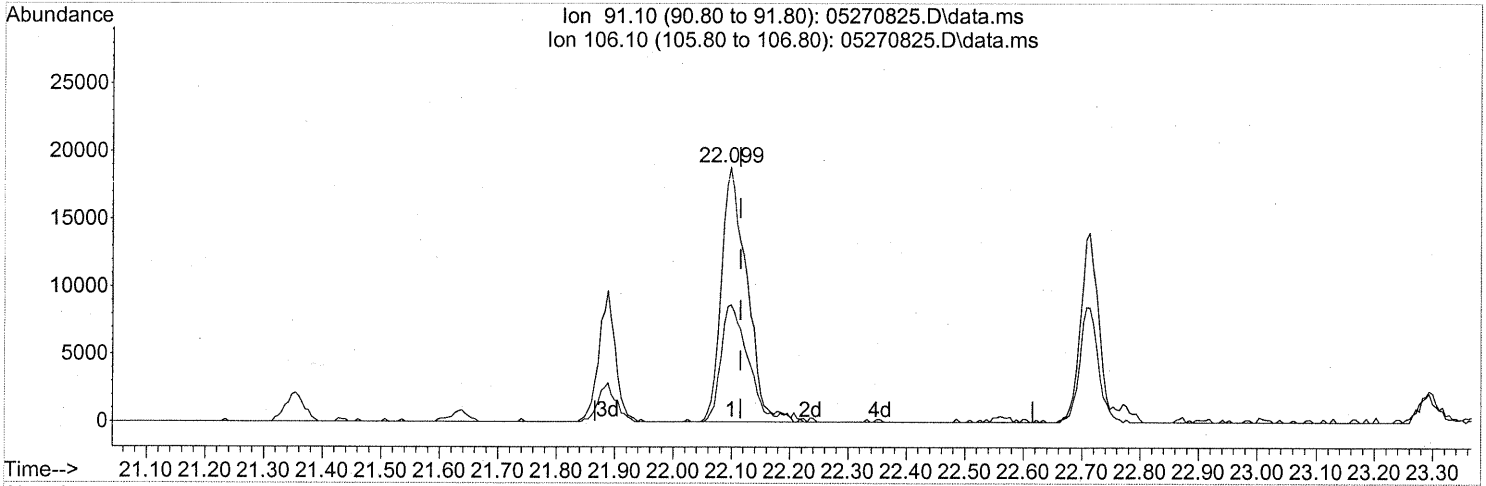
response 19203

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 34.10 | 31.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.099min (-0.017) 0.57ng

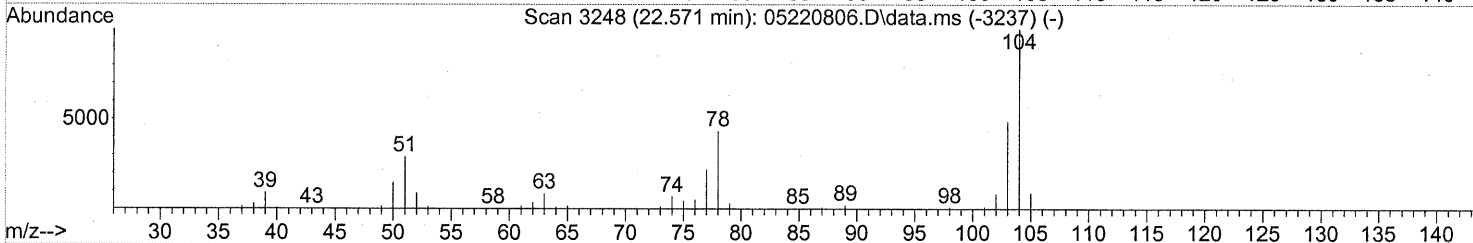
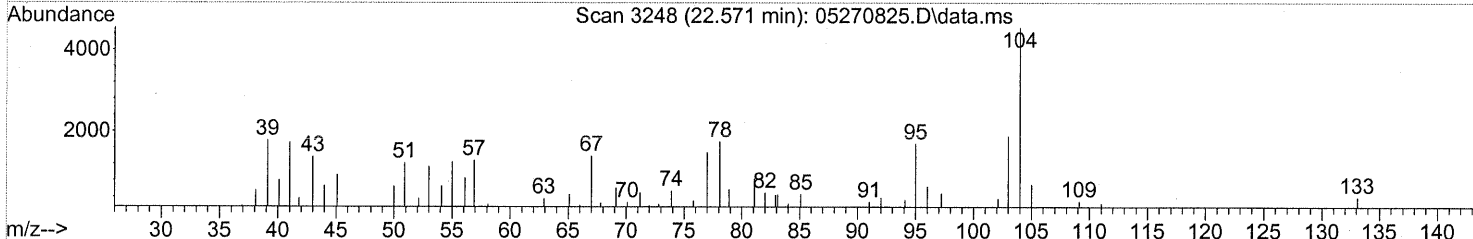
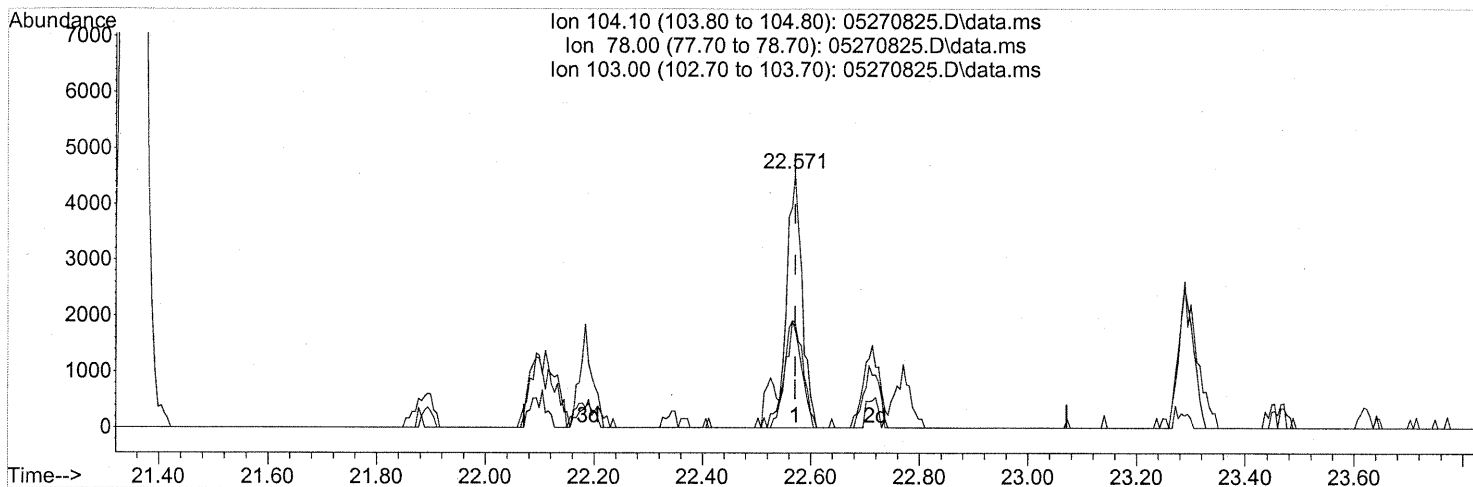
response 57785

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 47.88 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



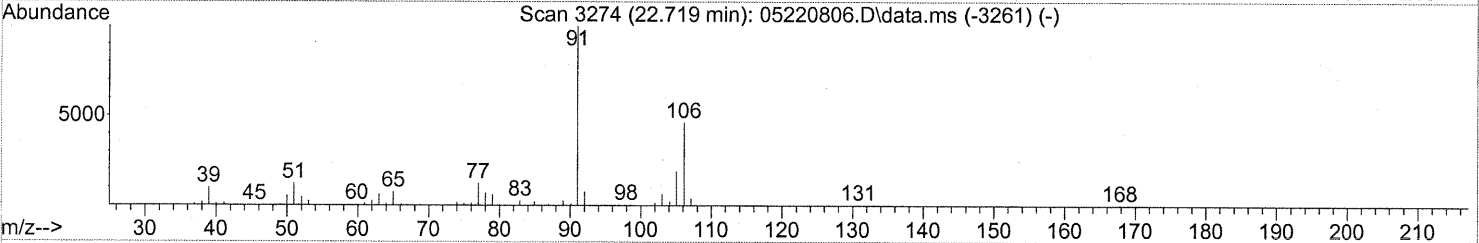
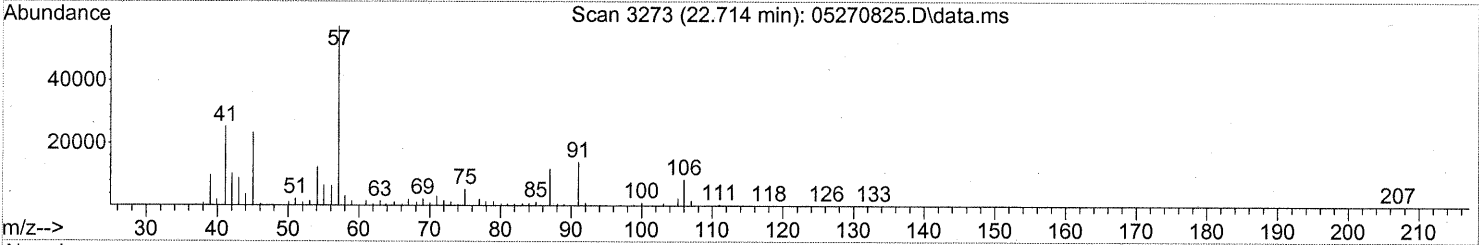
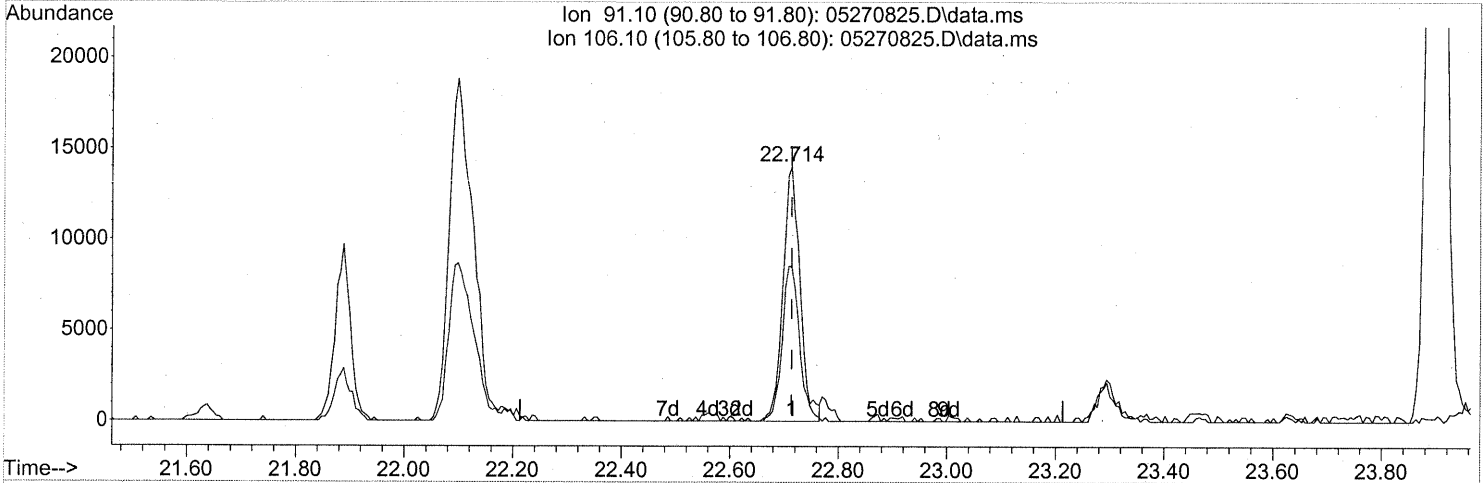
TIC: 05270825.D\data.ms

(69) Styrene (T)
 22.571min (-0.000) 0.10ng
 response 9058

| Ion | Exp% | Act% |
|--------|-------|-------|
| 104.10 | 100 | 100 |
| 78.00 | 39.40 | 44.23 |
| 103.00 | 47.10 | 47.48 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(70) o-Xylene (T)

22.714min (-0.000) 0.28ng

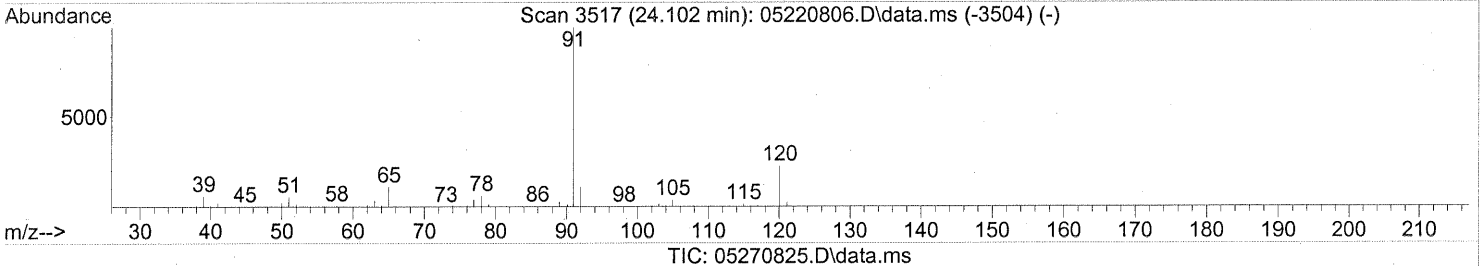
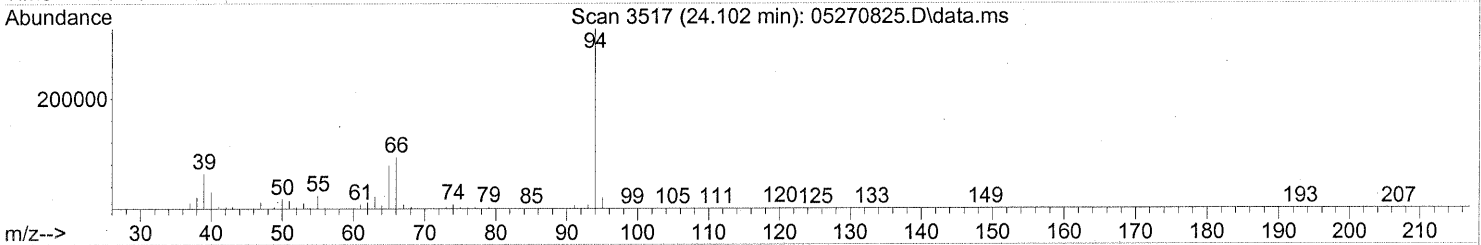
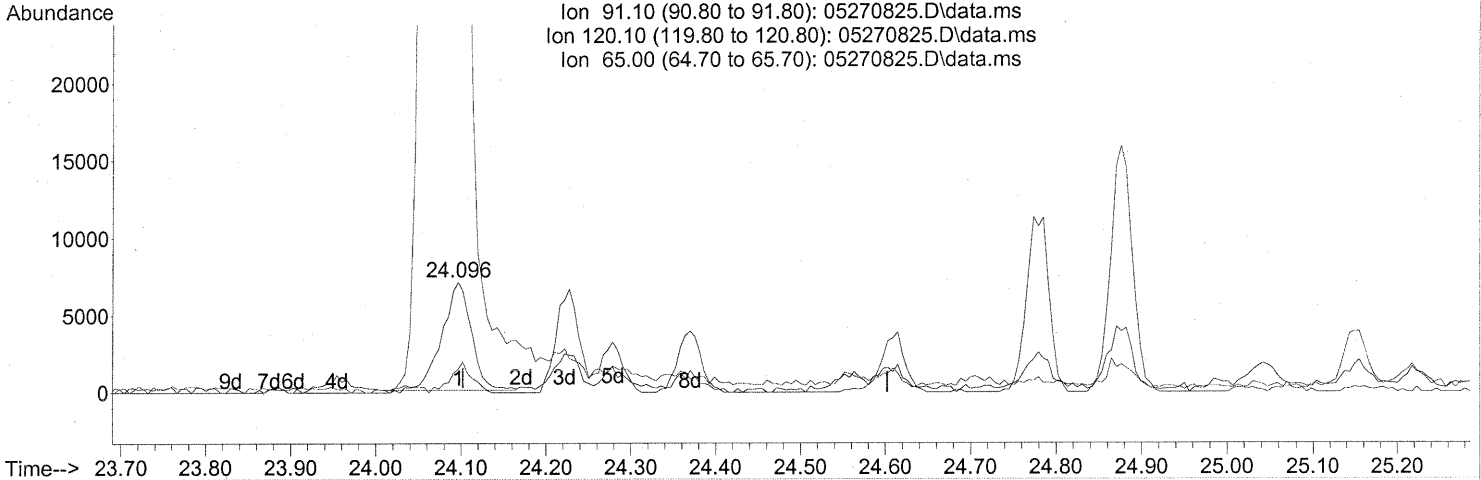
response 30651

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 61.67 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37 am
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:44:44 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.09ng

response 17096

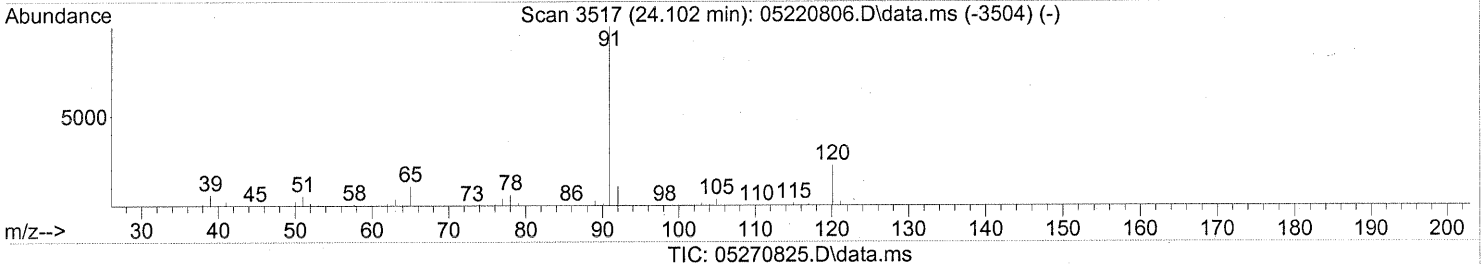
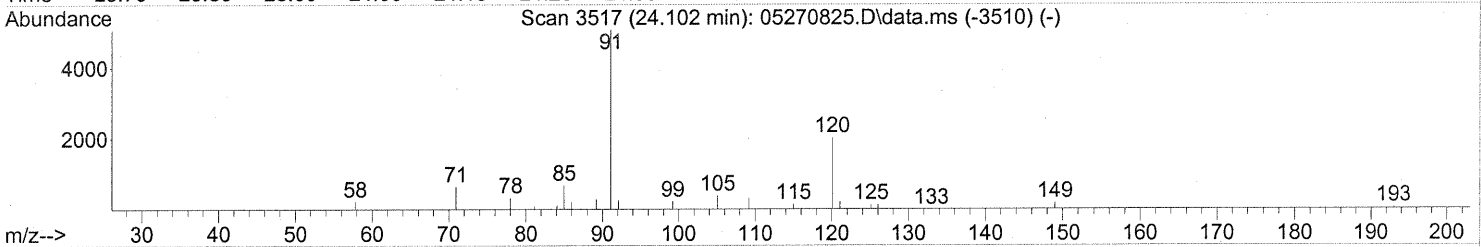
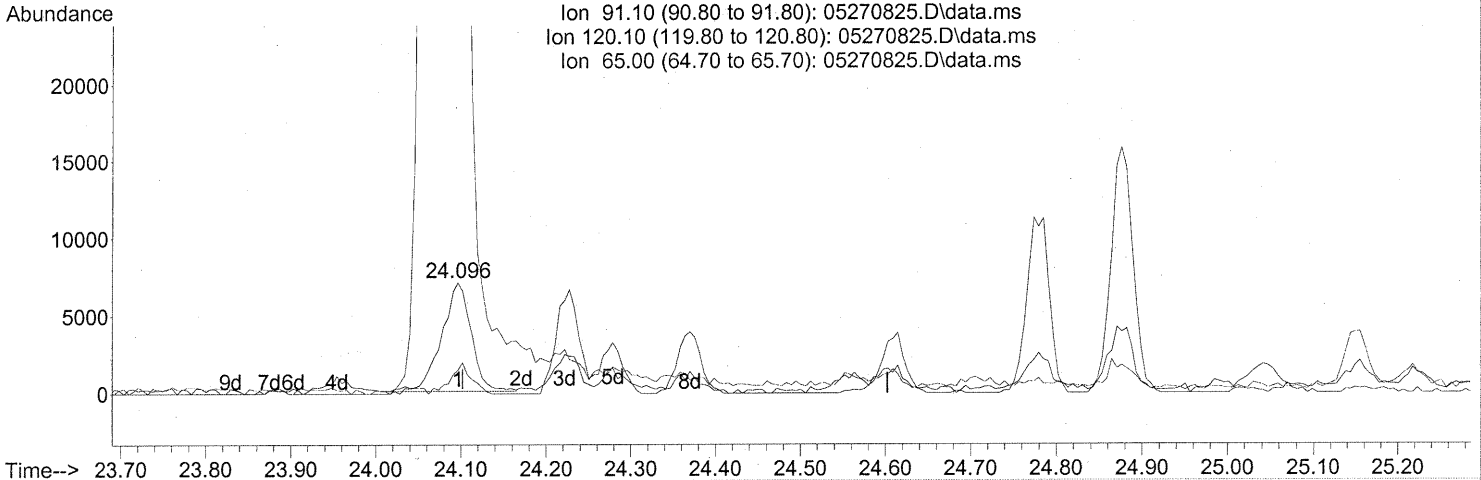
before

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 20.24 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37 am
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 12:44:44 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.09ng

response 17096

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 20.24 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

after subtraction

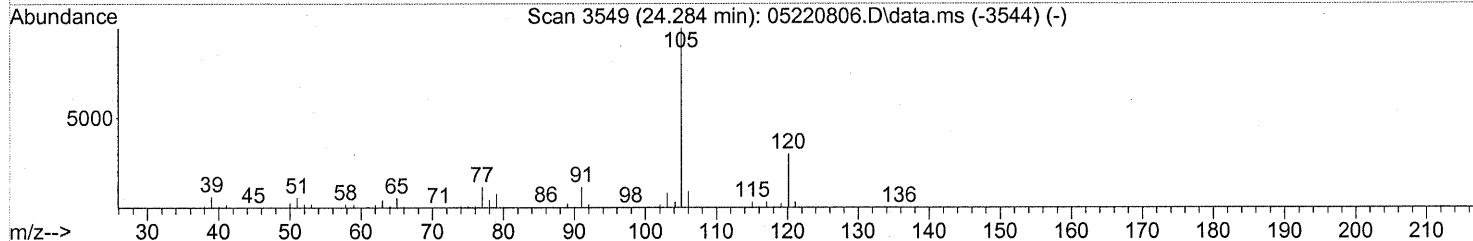
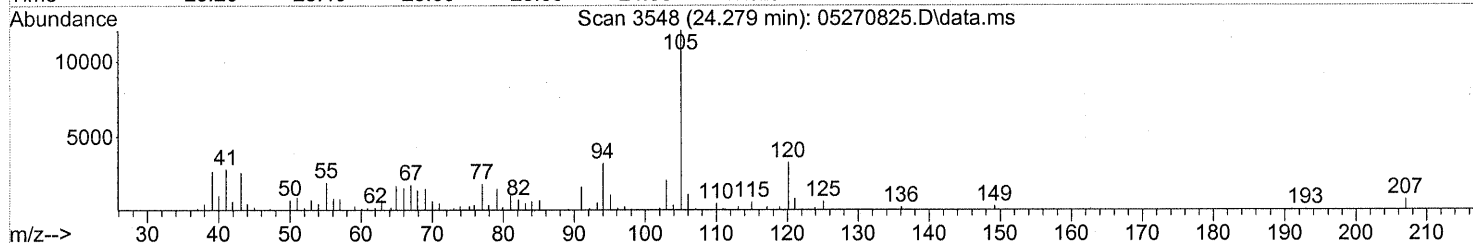
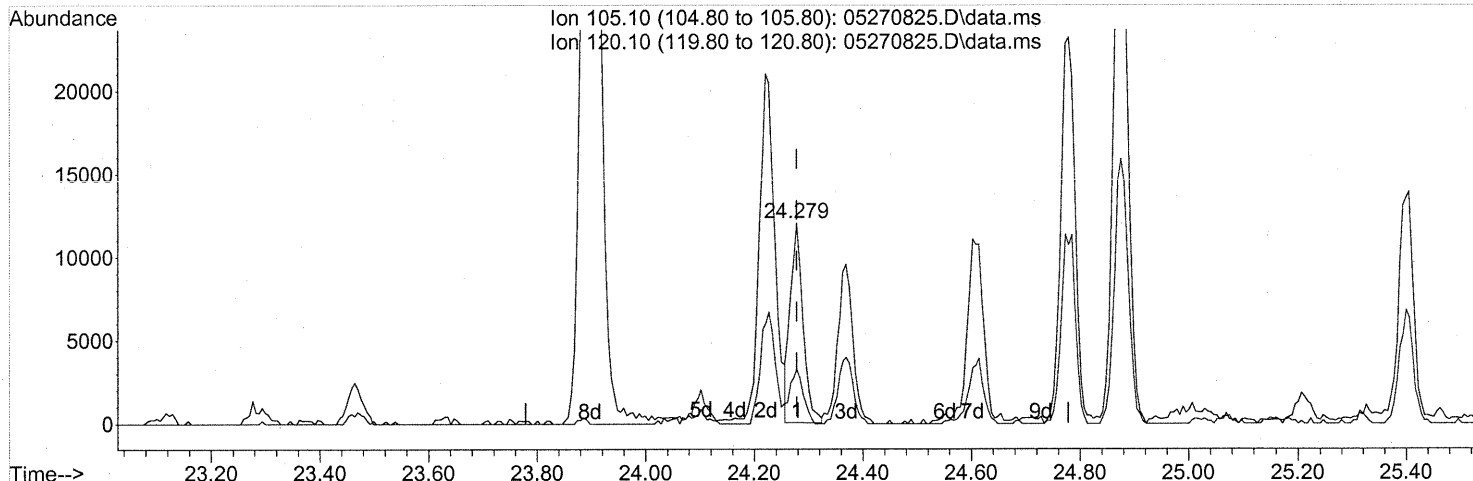
WA 6/4/08

R 06/04/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

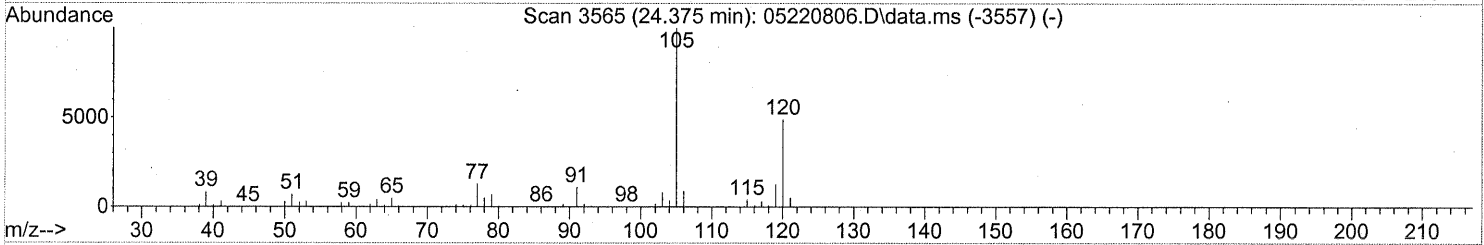
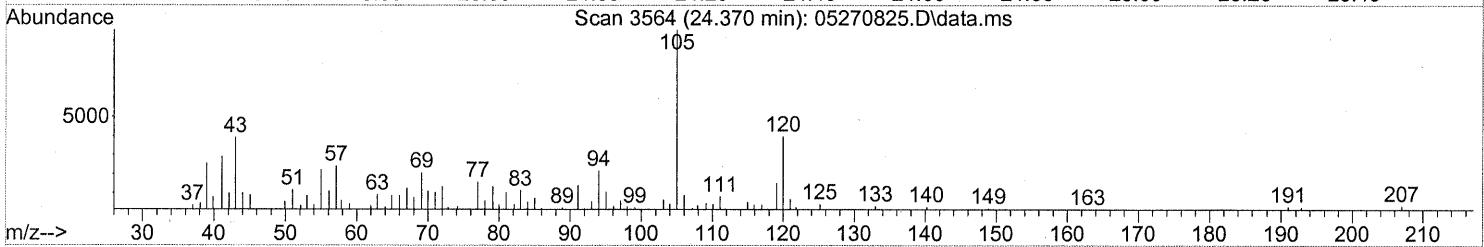
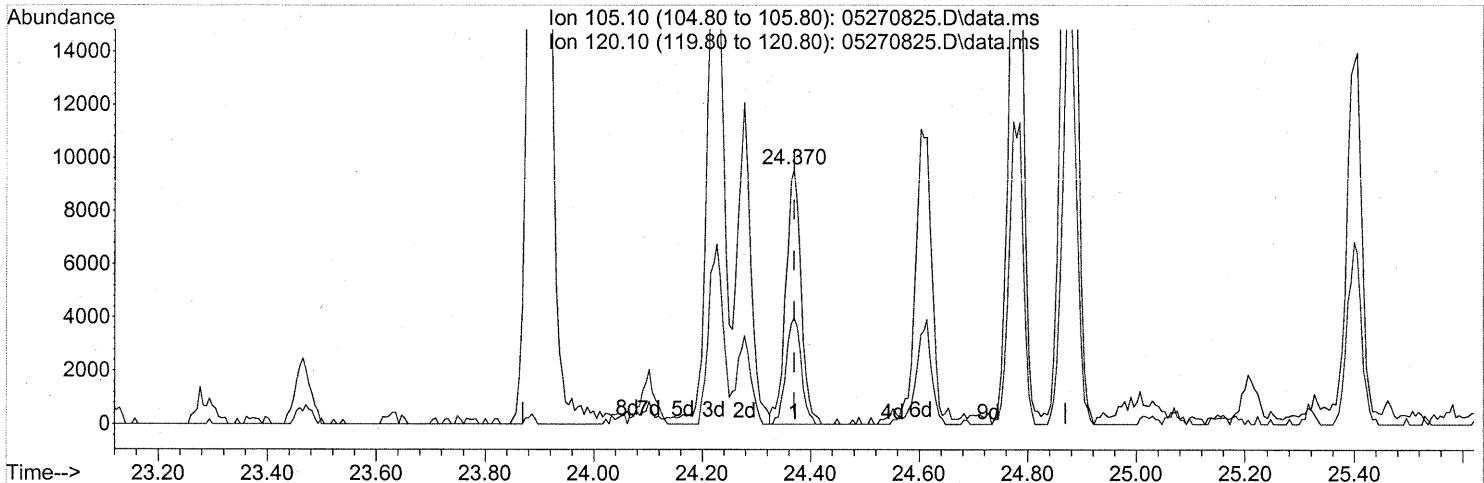
(78) 4-Ethyltoluene (T)
 24.279min (-0.000) 0.14ng
 response 19712

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 28.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

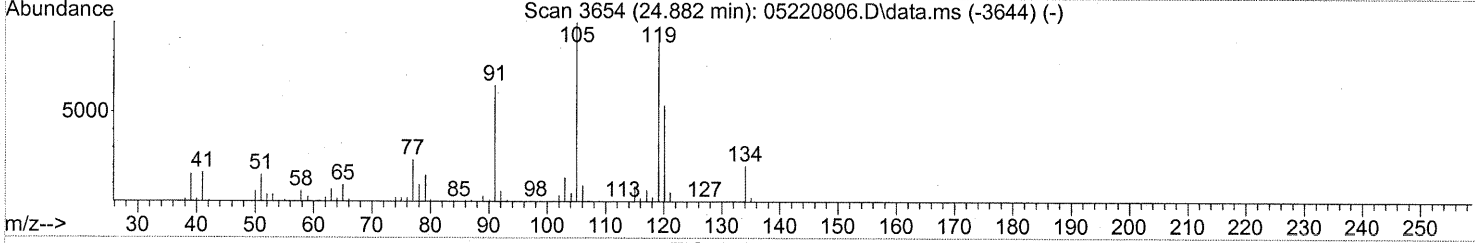
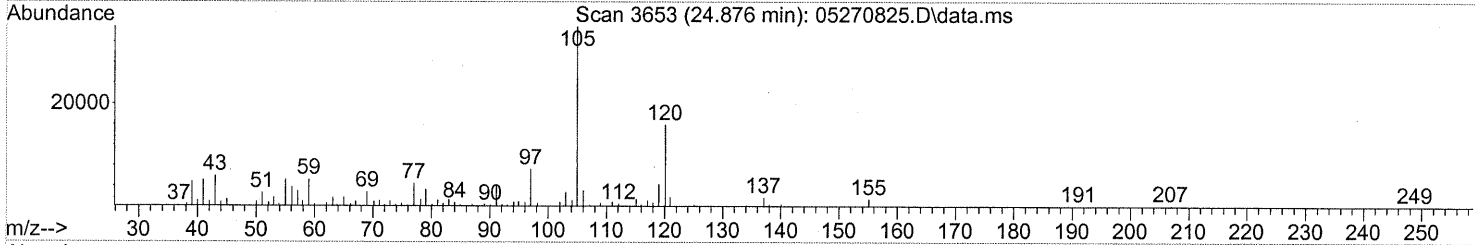
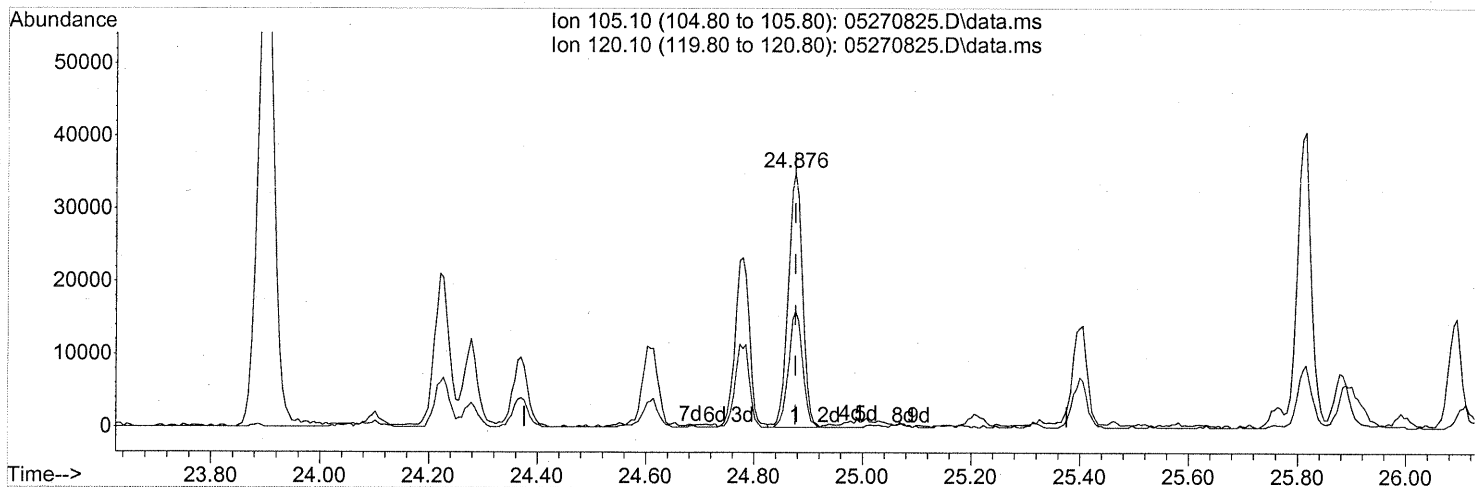
24.370min (-0.000) 0.14ng

response 18635

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 49.40 | 41.52 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.48ng

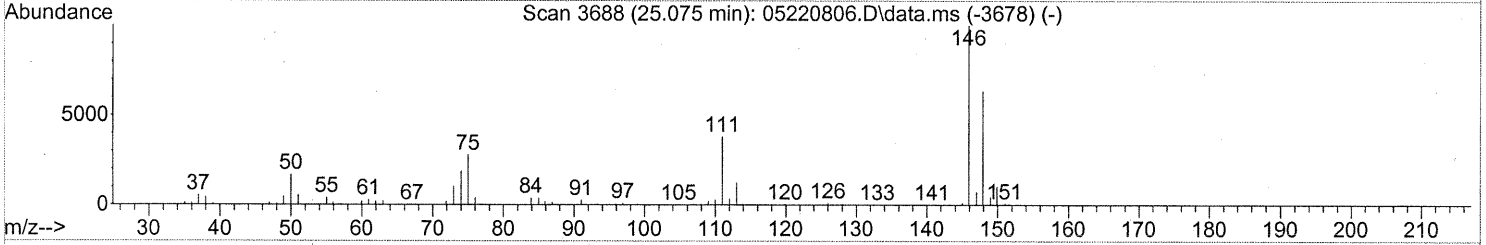
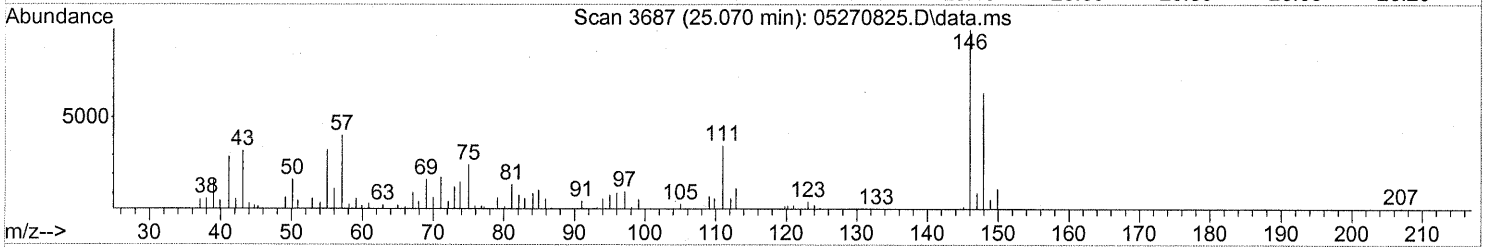
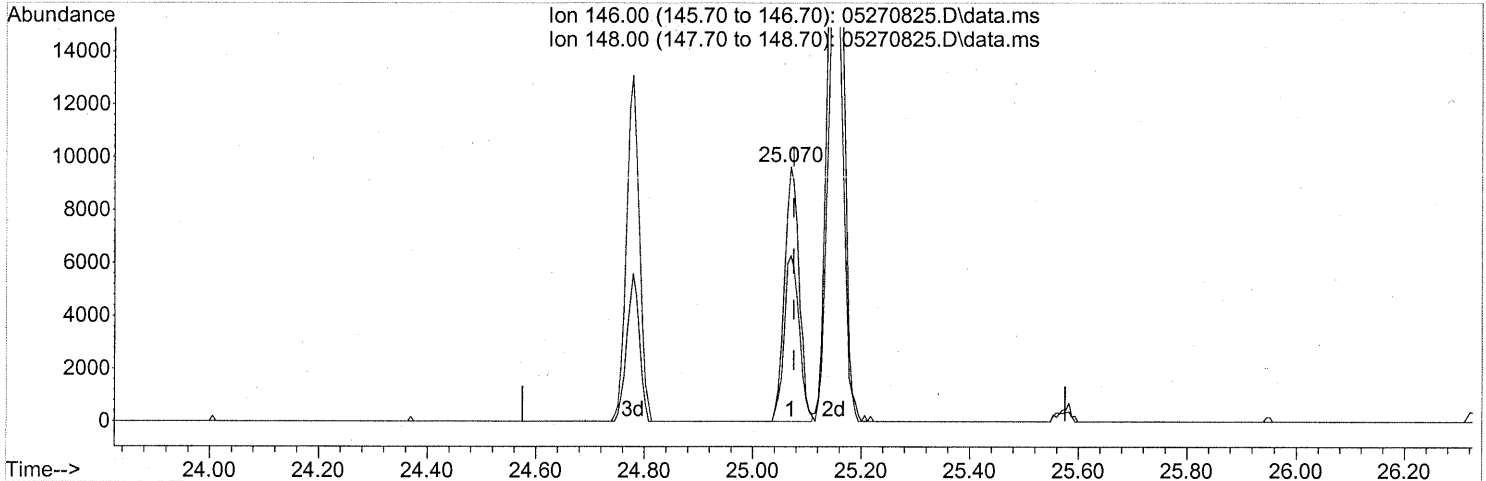
response 63753

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 44.81 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.22ng

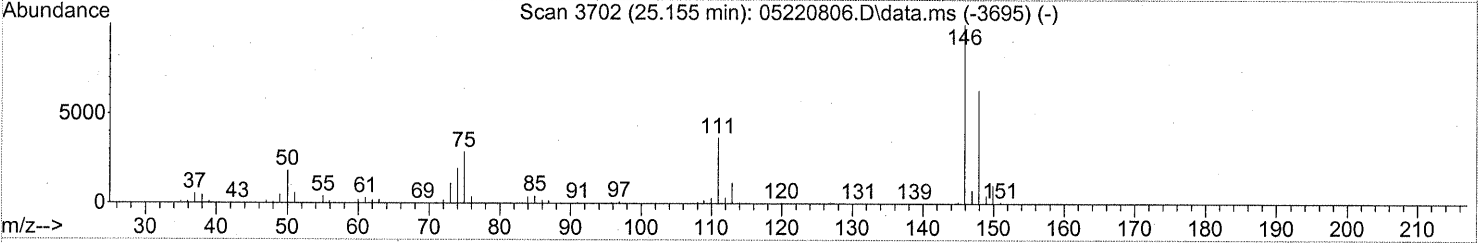
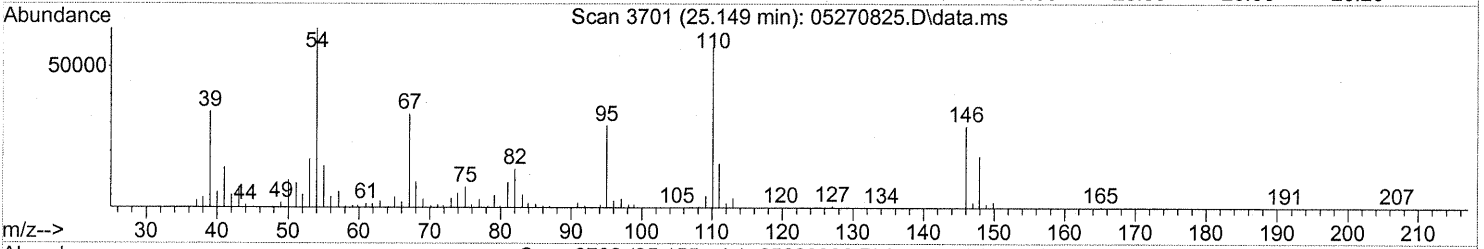
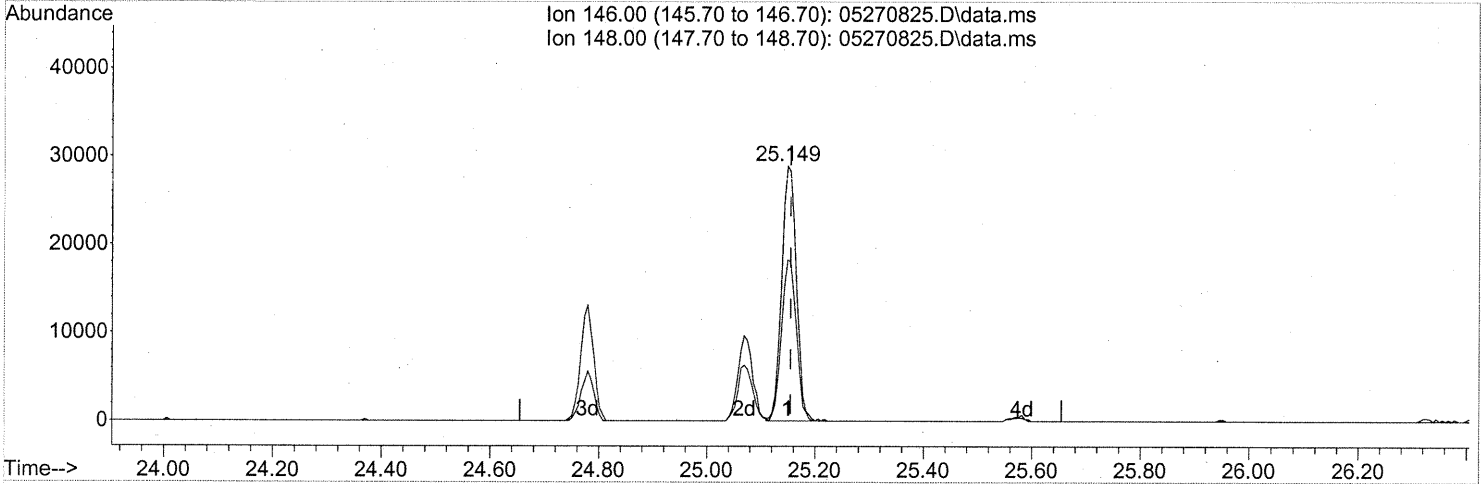
response 18168

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.00 | 66.63 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.67ng

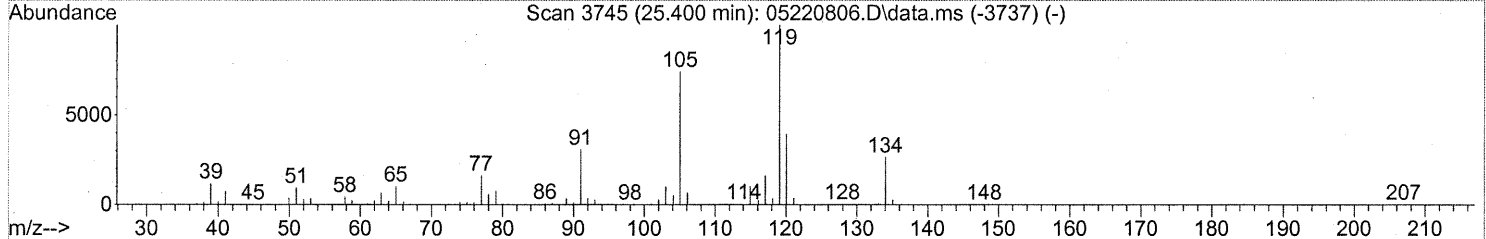
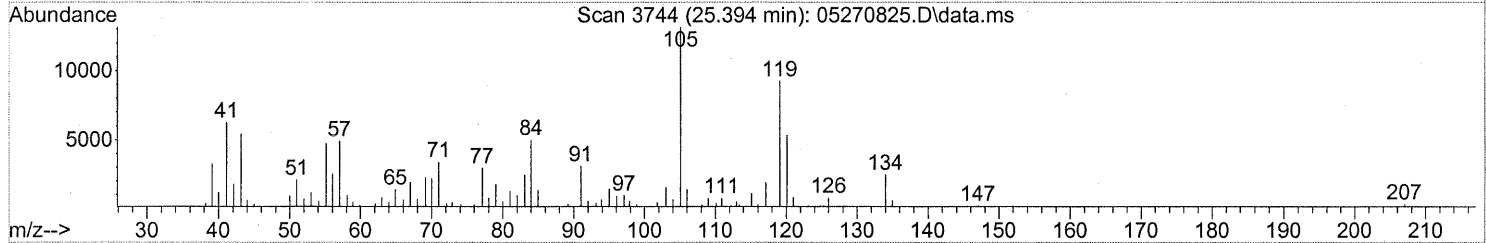
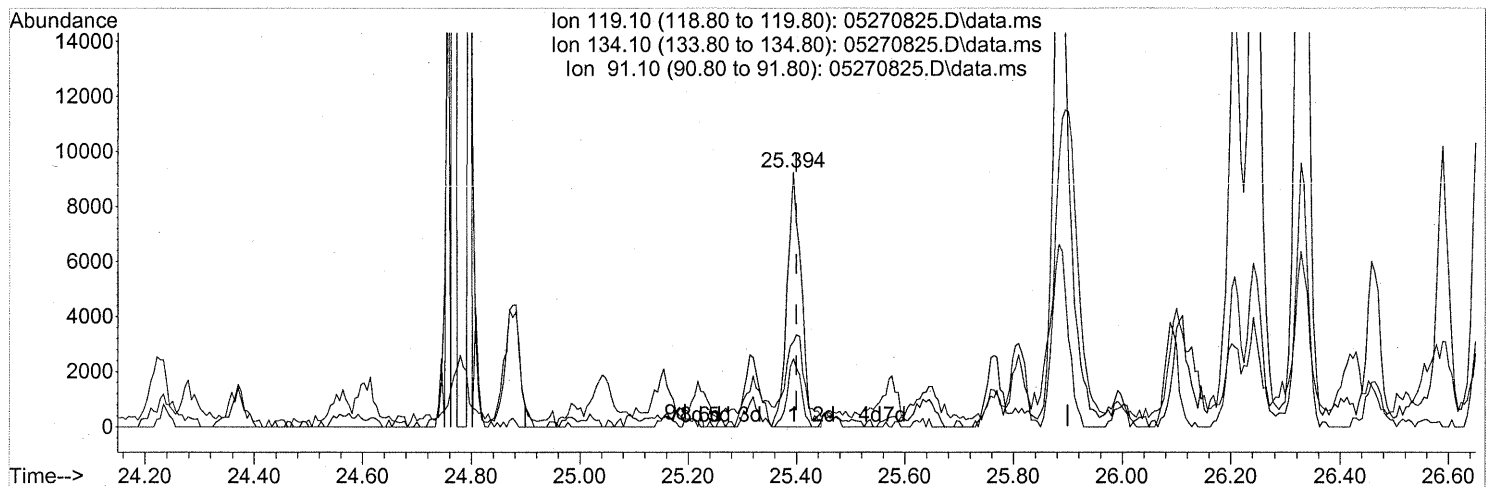
response 54261

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 63.76 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.12ng

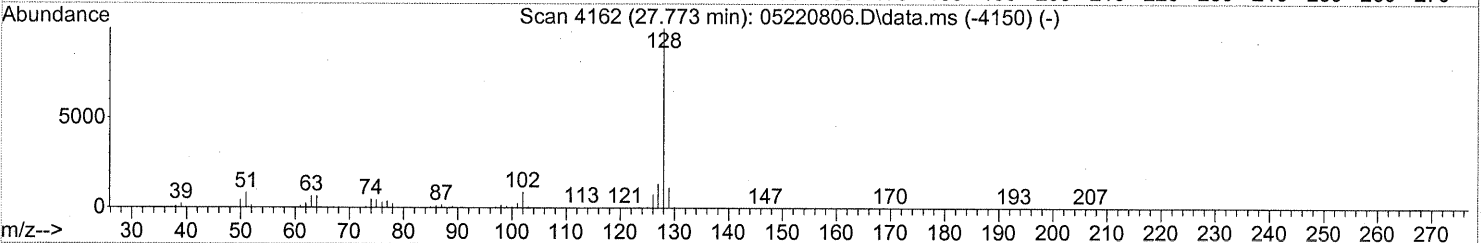
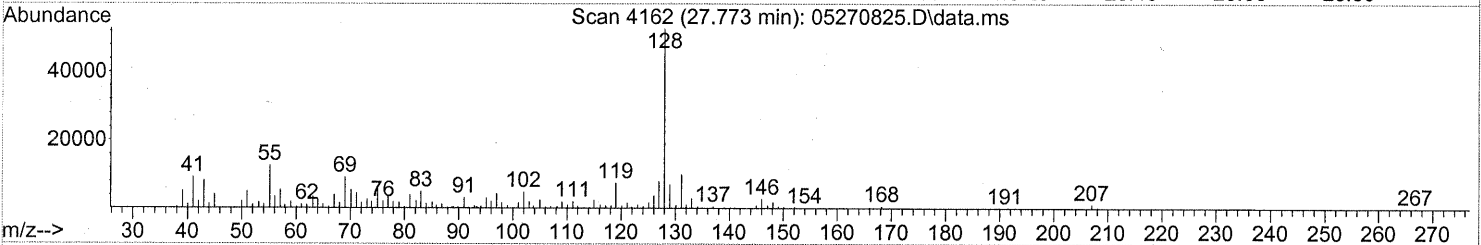
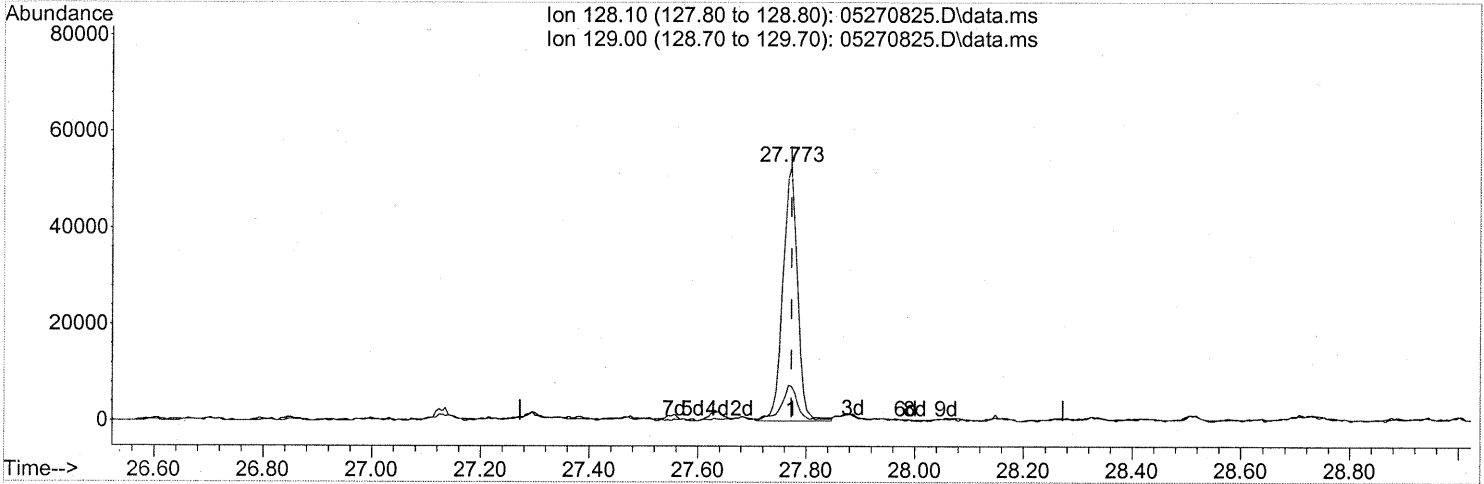
response 16632

| Ion | Exp% | Act% |
|--------|-------|-------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 25.41 |
| 91.10 | 27.10 | 41.47 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:14:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



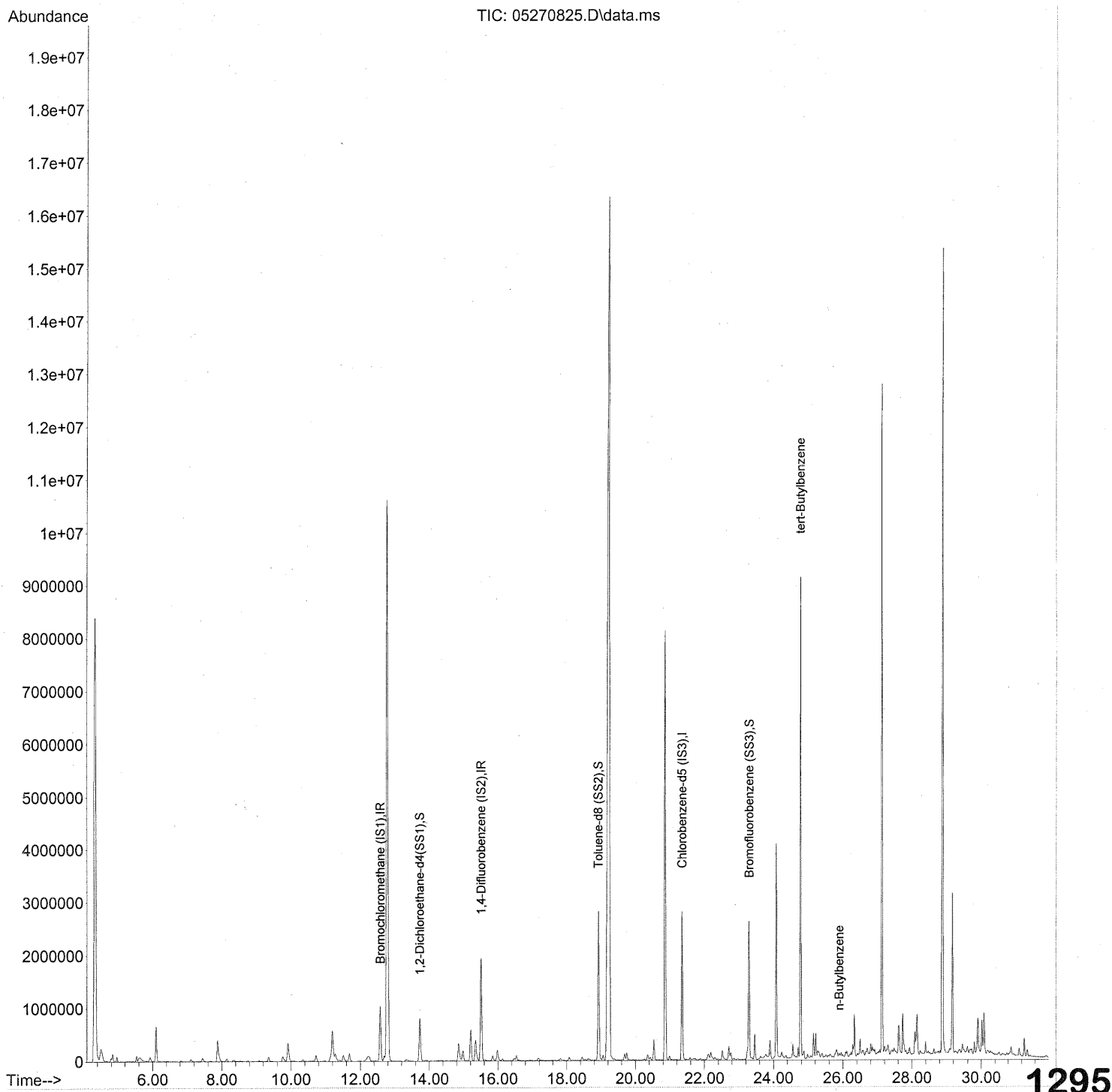
TIC: 05270825.D\data.ms

(95) Naphthalene (T)
 27.773min (-0.000) 0.56ng
 response 99297

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 15.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37 am
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 13:13:11 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37 am
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 13:13:11 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

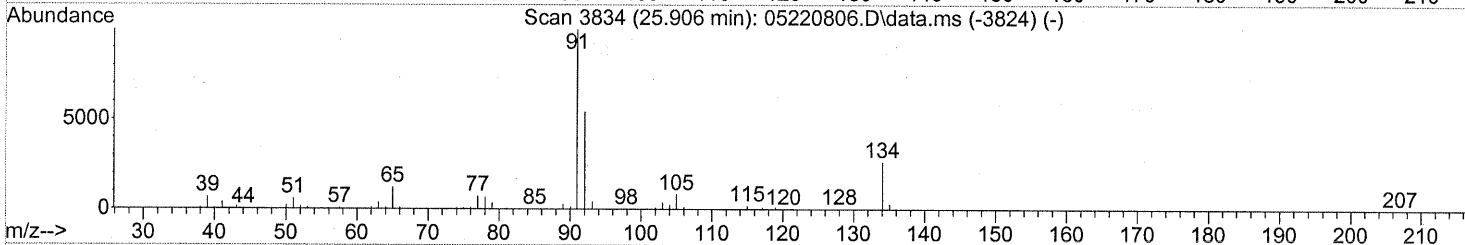
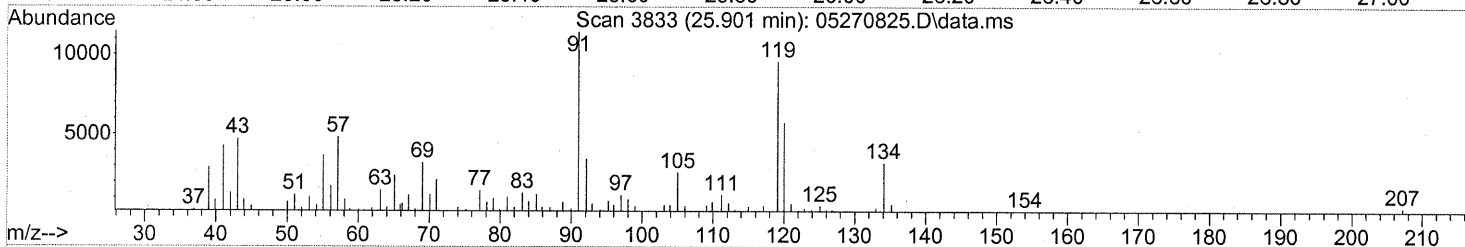
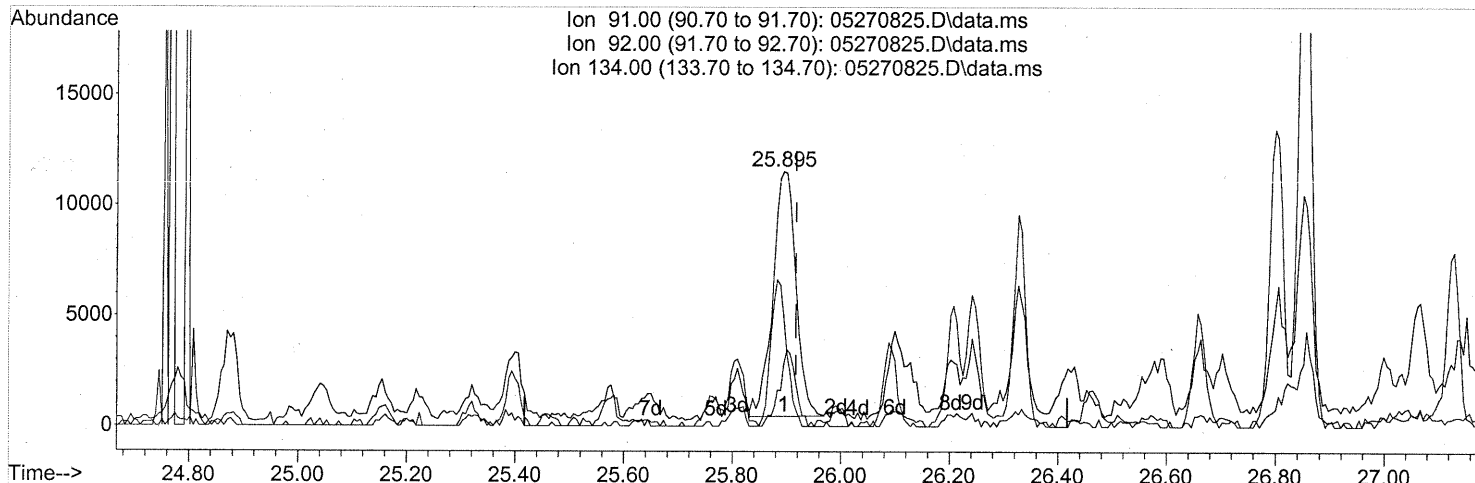
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|--------------|------|----------|------------------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 554275 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2315124 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1089370 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 853709 | 22.229 | ng | -0.02 |
| Spiked Amount | 25.000 | | | Recovery | = | 88.92% |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 2411976 | 24.653 | ng | -0.02 |
| Spiked Amount | 25.000 | | | Recovery | = | 98.60% |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 1010547 | 25.400 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 101.60% |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.78 | 119 | 173562 | 1.357 | ng | 95 |
| 8) n-Butylbenzene | <u>25.89</u> | 91 | 32563 | <u>0.230</u> | ng # | 62 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270825.D
 Acq On : 28 May 2008 2:37
 Operator : WA
 Sample : P0801483-027 (1000ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 13:13:11 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05270825.D\data.ms

(8) n-Butylbenzene

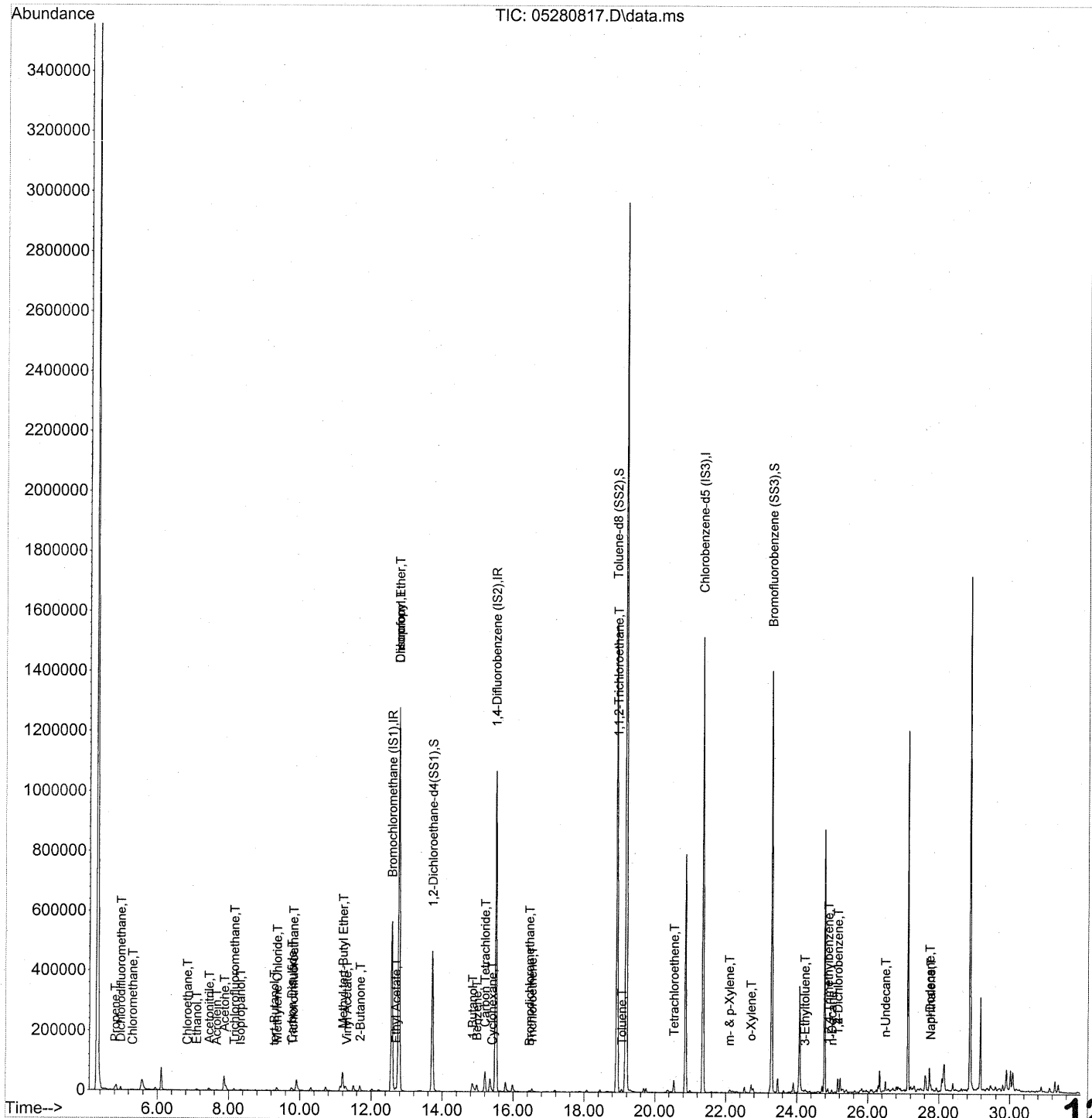
25.895min (-0.023) 0.23ng

response 32563

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 22.61# |
| 134.00 | 28.80 | 41.33# |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280817.D
 Acq On : 28 May 2008 22:04
 Operator : WA
 Sample : P0801483-027 Dil (200ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 04:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1298

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280817.D
 Acq On : 28 May 2008 22:04
 Operator : WA
 Sample : P0801483-027 Dil (200ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 04:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 292730 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1251266 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 587873 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|--------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 479462 | 23.638 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 94.56% | |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1308784 | 24.789 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.16% | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 534750 | 24.907 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.64% | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------|-------|--------|
| 2) Propene | 4.82 | 42 | 5048 | 0.218 | ng | # 1 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 10621 | 0.249 | ng | 98 |
| 4) Chloromethane | 5.31 | 50 | 1455 | 0.053 | ng | # 51 |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 6.02 | 54 | 199 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 6.84 | 64 | 1938 | 0.148 | ng | 79 |
| 10) Ethanol | 7.10 | 45 | 8007 | 0.520 | ng | 86 |
| 11) Acetonitrile | 7.45 | 41 | 12341 | 0.277 | ng | 86 |
| 12) Acrolein | 7.66 | 56 | 2236 | 0.203 | ng | 98 |
| 13) Acetone | 7.88 | 58 | 28366 | 1.800 | ng | # 80 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 6135 | 0.168 | ng | 95 |
| 15) Isopropanol | 8.33 | 45 | 4887 | 0.097 | ng | 90 |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 204 | N.D. | | |
| 18) tert-Butanol | 9.28 | 59 | 3076 | 0.072 | ng | # 91 |
| 19) Methylene Chloride | 9.36 | 84 | 5544 | 0.315 | ng | 86 |
| 20) Allyl Chloride | 9.37 | 41 | 255 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 1004 | 0.060 | ng | 87 |
| 22) Carbon Disulfide | 9.77 | 76 | 23788 | 0.356 | ng | 100 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.21 | 73 | 79382 | 1.558 | ng | 85 |
| 26) Vinyl Acetate | 11.32 | 86 | 1488 | 0.511 | ng | # 40 |
| 27) 2-Butanone | 11.69 | 72 | 6908 | 0.601 | ng | 99 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 140636 | 9.979 | ng | # 1 |
| 30) Ethyl Acetate | 12.70 | 61 | 1959 | 0.316 | ng | 88 |
| 31) n-Hexane | 12.69 | 57 | 571 | N.D. | | |

1299

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280817.D
 Acq On : 28 May 2008 22:04
 Operator : WA
 Sample : P0801483-027 Dil (200ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 04:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 1357449 | 50.853 | ng | 99 |
| 34) Tetrahydrofuran | 13.39 | 72 | 448 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.73 | 62 | 148 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 121 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.85 | 56 | 31712 | 1.844 | ng | 90 |
| 41) Benzene | 14.98 | 78 | 25640 | 0.391 | ng | 98 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 55055 | 2.182 | ng | 100 |
| 43) Cyclohexane | 15.41 | 84 | 1928 | 0.076 | ng | # 1 |
| 44) tert-Amyl Methyl Ether | 15.86 | 73 | 228 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 16.46 | 83 | 3109 | 0.140 | ng | 95 |
| 47) Trichloroethene | 16.53 | 130 | 4264 | 0.212 | ng | 99 |
| 48) 1,4-Dioxane | 16.51 | 88 | 195 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 962 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 128 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 114342 | 7.063 | ng | # 8 |
| 58) Toluene | 19.07 | 91 | 8730 | 0.122 | ng | 93 |
| 59) 2-Hexanone | 19.38 | 43 | 2471 | N.D. | | |
| 60) Dibromochloromethane | 19.59 | 129 | 217 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.19 | 43 | 437 | N.D. | | |
| 63) n-Octane | 20.35 | 57 | 533 | N.D. | | |
| 64) Tetrachloroethene | 20.54 | 166 | 12937 | 0.609 | ng | 96 |
| 65) Chlorobenzene | 21.41 | 112 | 1071 | N.D. | | |
| 66) Ethylbenzene | 21.88 | 91 | 2120 | N.D. | | |
| 67) m- & p-Xylene | 22.10 | 91 | 5939 | 0.108 | ng | 82 |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.58 | 104 | 931 | N.D. | | |
| 70) o-Xylene | 22.71 | 91 | 3102 | 0.052 | ng | 88 |
| 71) n-Nonane | 22.98 | 43 | 1662 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.72 | 83 | 62 | N.D. | | |
| 74) Cumene | 23.46 | 105 | 564 | N.D. | | |
| 75) alpha-Pinene | 23.95 | 93 | 294 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 2074 | N.D. | | |
| 77) 3-Ethyltoluene | 24.22 | 105 | 4452 | 0.053 | ng | 90 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 2091 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 2023 | N.D. | | |

1300

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280817.D
 Acq On : 28 May 2008 22:04
 Operator : WA
 Sample : P0801483-027 Dil (200ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 04:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

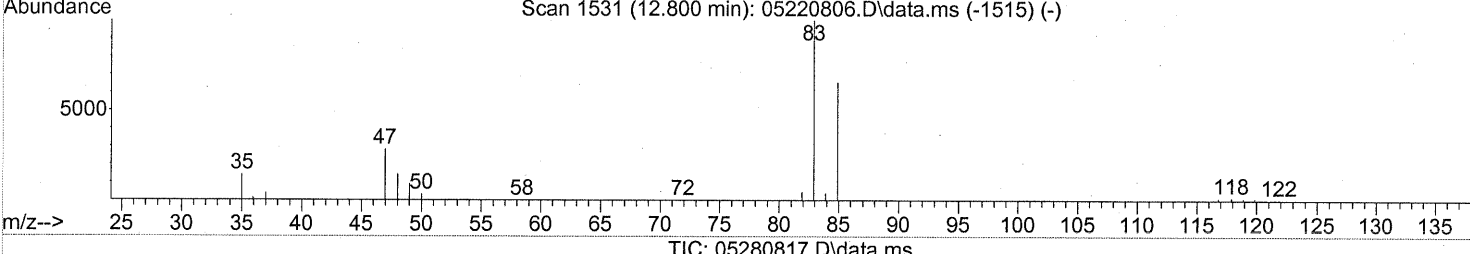
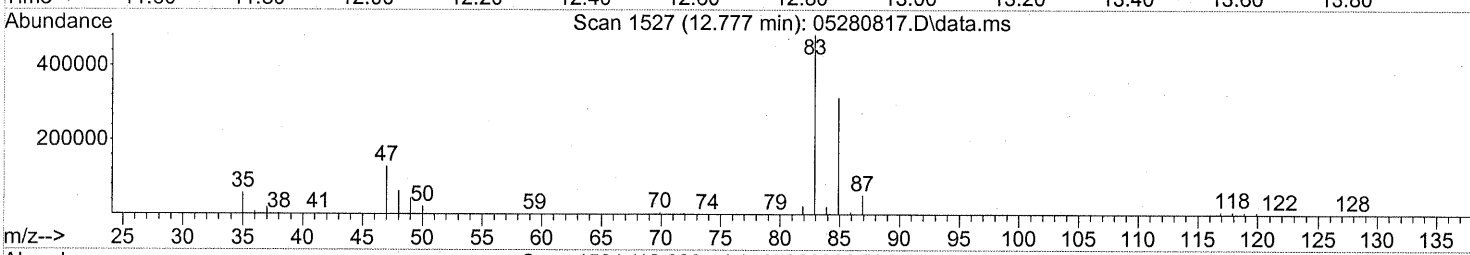
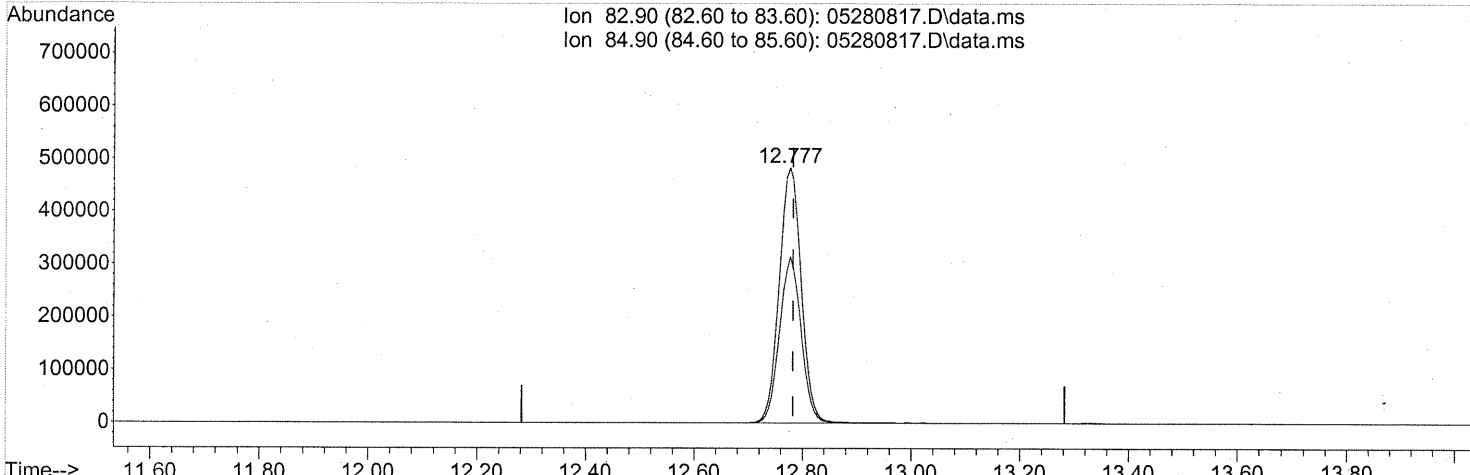
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 253 | N.D. | | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 2163 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 6385 | 0.088 | ng | 86 |
| 83) n-Decane | 24.98 | 57 | 3702 | 0.093 | ng | 79 |
| 84) Benzyl Chloride | 25.05 | 91 | 112 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 1988 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 5812 | 0.133 | ng | 92 |
| 87) sec-Butylbenzene | 25.21 | 105 | 364 | N.D. | | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 1707 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 2767 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.15 | 146 | 5812 | 0.136 | ng | 93 |
| 91) d-Limonene | 25.58 | 68 | 897 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 11964 | 0.288 | ng | 74 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 52 | N.D. | | |
| 95) Naphthalene | 27.77 | 128 | 12166 | 0.128 | ng | 97 |
| 96) n-Dodecane | 27.74 | 57 | 24959 | 0.604 | ng | 80 |
| 97) Hexachloro-1,3-butadiene | 28.18 | 225 | 56 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280817.D
 Acq On : 28 May 2008 22:04
 Operator : WA
 Sample : P0801483-027 Dil (200ml)
 Misc : ENSR SG07B-05 (-3.8, 3.7)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 29 04:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 50.85ng
 response 1357449

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 63.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR

Client Sample ID: SG07B-05D

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-028

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00104

Date Collected: 5/17/08

Date Received: 5/20/08

Date Analyzed: 5/28/08

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.0 | 0.85 | 0.085 | 0.41 | 0.17 | 0.017 | |
| 74-87-3 | Chloromethane | ND | 0.17 | 0.085 | ND | 0.082 | 0.041 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.85 | 0.085 | ND | 0.12 | 0.012 | |
| 75-01-4 | Vinyl Chloride | ND | 0.17 | 0.085 | ND | 0.066 | 0.033 | |
| 74-83-9 | Bromomethane | 0.088 | 0.17 | 0.085 | 0.023 | 0.044 | 0.022 | J |
| 75-00-3 | Chloroethane | 1.3 | 0.17 | 0.085 | 0.47 | 0.064 | 0.032 | |
| 64-17-5 | Ethanol | 4.9 | 8.5 | 0.085 | 2.6 | 4.5 | 0.045 | J |
| 67-64-1 | Acetone | 18 | 8.5 | 0.12 | 7.6 | 3.6 | 0.052 | B |
| 75-69-4 | Trichlorofluoromethane | 1.4 | 0.17 | 0.085 | 0.25 | 0.030 | 0.015 | |
| 107-13-1 | Acrylonitrile | 0.14 | 0.85 | 0.12 | 0.065 | 0.39 | 0.055 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | 0.17 | 0.085 | 0.059 | 0.043 | 0.021 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.45 | 0.85 | 0.13 | 0.15 | 0.28 | 0.041 | J |
| 75-09-2 | Methylene Chloride | 2.4 | 0.85 | 0.085 | 0.70 | 0.24 | 0.024 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.17 | 0.085 | ND | 0.054 | 0.027 | |
| 76-13-1 | Trichlorotrifluoroethane | 0.54 | 0.17 | 0.095 | 0.071 | 0.022 | 0.012 | |
| 75-15-0 | Carbon Disulfide | 4.7 | 0.85 | 0.20 | 1.5 | 0.27 | 0.065 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.17 | 0.085 | ND | 0.043 | 0.021 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.17 | 0.085 | ND | 0.042 | 0.021 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 13 | 0.17 | 0.085 | 3.7 | 0.047 | 0.023 | |
| 108-05-4 | Vinyl Acetate | 6.6 | 8.5 | 0.27 | 1.9 | 2.4 | 0.077 | J |
| 78-93-3 | 2-Butanone (MEK) | 5.4 | 0.85 | 0.085 | 1.8 | 0.29 | 0.029 | B |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.17 | 0.085 | ND | 0.043 | 0.021 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.85 | 0.10 | ND | 0.20 | 0.024 | |
| 67-66-3 | Chloroform | 420 | 0.17 | 0.10 | 87 | 0.035 | 0.020 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA Date: 6/4/08 **1303**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG07B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-028

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00104

Date Collected: 5/17/08
Date Received: 5/20/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.85 | 0.086 | ND | 0.20 | 0.021 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.17 | 0.085 | ND | 0.042 | 0.021 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.11 | 0.17 | 0.085 | 0.020 | 0.031 | 0.015 | J |
| 71-43-2 | Benzene | 2.8 | 0.17 | 0.085 | 0.87 | 0.053 | 0.026 | |
| 56-23-5 | Carbon Tetrachloride | 19 | 0.17 | 0.085 | 3.0 | 0.027 | 0.013 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.85 | 0.085 | ND | 0.20 | 0.020 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.17 | 0.085 | ND | 0.037 | 0.018 | |
| 75-27-4 | Bromodichloromethane | 1.4 | 0.17 | 0.085 | 0.21 | 0.025 | 0.013 | |
| 79-01-6 | Trichloroethene | 2.1 | 0.17 | 0.085 | 0.39 | 0.031 | 0.016 | |
| 123-91-1 | 1,4-Dioxane | 0.79 | 0.85 | 0.10 | 0.22 | 0.23 | 0.029 | J |
| 80-62-6 | Methyl Methacrylate | ND | 0.85 | 0.13 | ND | 0.21 | 0.031 | |
| 142-82-5 | n-Heptane | 1.0 | 0.85 | 0.11 | 0.25 | 0.21 | 0.026 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.85 | 0.088 | ND | 0.19 | 0.019 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.38 | 0.85 | 0.095 | 0.093 | 0.21 | 0.023 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.85 | 0.11 | ND | 0.19 | 0.023 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.17 | 0.085 | ND | 0.031 | 0.015 | |
| 108-88-3 | Toluene | 0.99 | 0.85 | 0.085 | 0.26 | 0.22 | 0.022 | |
| 591-78-6 | 2-Hexanone | 1.7 | 0.85 | 0.13 | 0.42 | 0.21 | 0.031 | |
| 124-48-1 | Dibromochloromethane | 0.19 | 0.17 | 0.11 | 0.023 | 0.020 | 0.013 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.17 | 0.091 | ND | 0.022 | 0.012 | |
| 111-65-9 | n-Octane | 1.3 | 0.85 | 0.085 | 0.27 | 0.18 | 0.018 | |
| 127-18-4 | Tetrachloroethene | 5.4 | 0.17 | 0.085 | 0.80 | 0.025 | 0.012 | |
| 108-90-7 | Chlorobenzene | 0.24 | 0.17 | 0.086 | 0.052 | 0.037 | 0.019 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08 **1304**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG07B-05D
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-028

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00104

Date Collected: 5/17/08
 Date Received: 5/20/08
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -3.8 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.69

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 1.8 | 0.85 | 0.10 | 0.42 | 0.19 | 0.024 | |
| 179601-23-1 | m,p-Xylenes | 7.1 | 0.85 | 0.22 | 1.6 | 0.19 | 0.051 | |
| 75-25-2 | Bromoform | ND | 0.85 | 0.13 | ND | 0.082 | 0.012 | |
| 100-42-5 | Styrene | 0.13 | 0.85 | 0.13 | 0.031 | 0.20 | 0.030 | J |
| 95-47-6 | o-Xylene | 3.5 | 0.85 | 0.11 | 0.80 | 0.19 | 0.025 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.17 | 0.11 | ND | 0.025 | 0.016 | |
| 98-82-8 | Cumene | 0.41 | 0.85 | 0.095 | 0.084 | 0.17 | 0.019 | J |
| 103-65-1 | n-Propylbenzene | 0.87 | 0.85 | 0.088 | 0.18 | 0.17 | 0.018 | |
| 622-96-8 | 4-Ethyltoluene | 1.0 | 0.85 | 0.096 | 0.20 | 0.17 | 0.020 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2.0 | 0.85 | 0.10 | 0.40 | 0.17 | 0.021 | |
| 98-83-9 | alpha-Methylstyrene | ND | 0.85 | 0.12 | ND | 0.17 | 0.026 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.2 | 0.85 | 0.12 | 0.66 | 0.17 | 0.024 | |
| 100-44-7 | Benzyl Chloride | ND | 0.17 | 0.15 | ND | 0.033 | 0.028 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.24 | 0.17 | 0.10 | 0.040 | 0.028 | 0.017 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.75 | 0.17 | 0.095 | 0.13 | 0.028 | 0.016 | |
| 135-98-8 | sec-Butylbenzene | 0.23 | 0.85 | 0.098 | 0.042 | 0.15 | 0.018 | J |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.56 | 0.85 | 0.11 | 0.10 | 0.15 | 0.020 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 3.7 | 0.17 | 0.11 | 0.62 | 0.028 | 0.019 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.85 | 0.13 | ND | 0.087 | 0.013 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.17 | 0.13 | ND | 0.023 | 0.017 | |
| 91-20-3 | Naphthalene | 0.87 | 0.34 | 0.13 | 0.17 | 0.065 | 0.024 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.17 | 0.15 | ND | 0.016 | 0.014 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.34 | 0.085 | ND | 0.062 | 0.015 | |
| 104-51-8 | n-Butylbenzene | 0.50 | 0.34 | 0.085 | 0.092 | 0.062 | 0.015 | M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

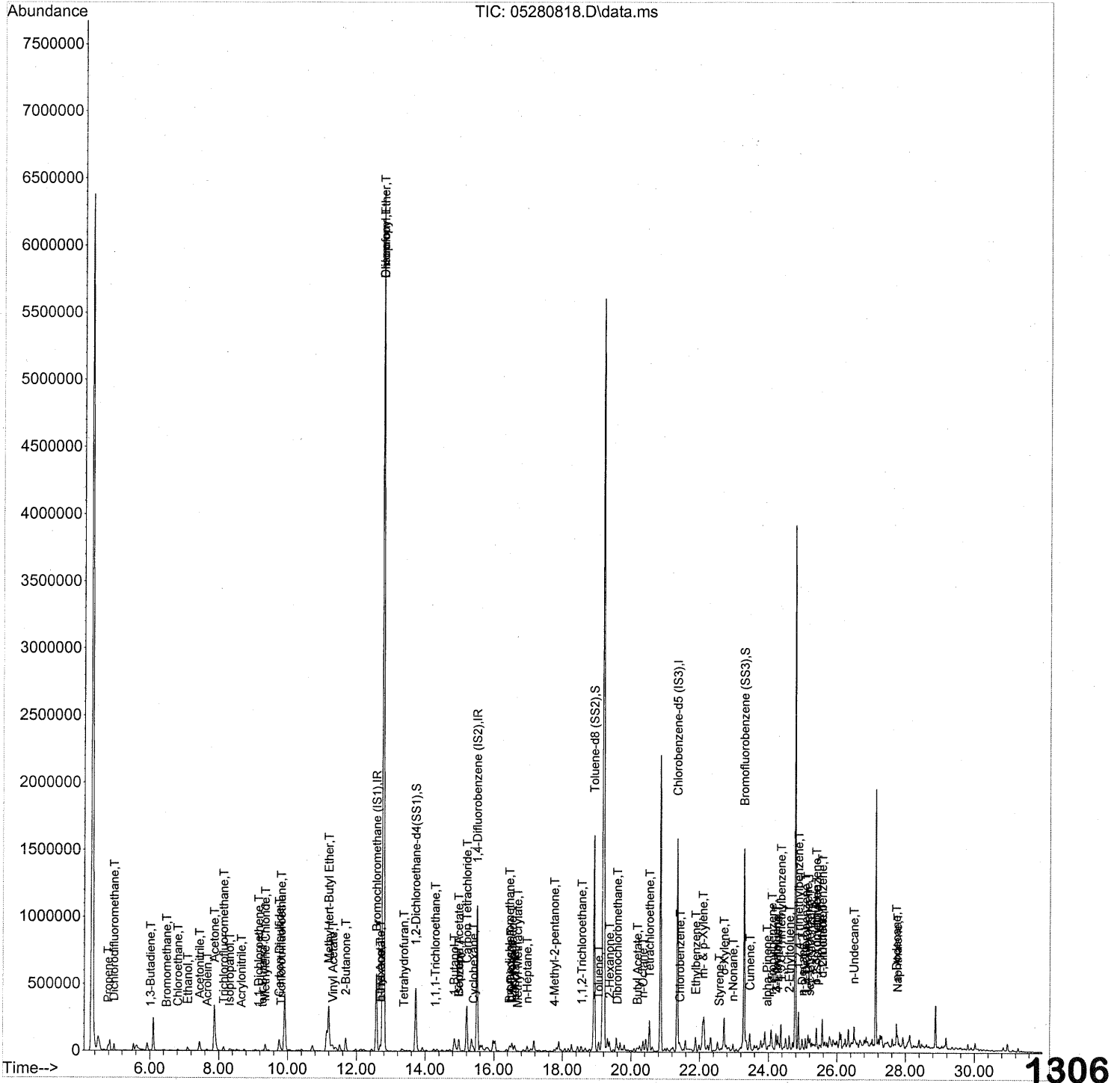
Verified By: CA

Date: 6/4/08

1305

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:04:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1306

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:04:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 304032 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1271664 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 610655 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|------------|---------|----|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 483524 | 22.953 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 91.80% | | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1351970 | 24.652 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 98.60% | | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 571975 | 25.647 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 102.60% | | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 14320 | 0.596 | ng | 95 |
| 3) Dichlorodifluoromethane | 4.96 | 85 | 53052 | 1.199 | ng | 100 |
| 4) Chloromethane | 5.29 | 50 | 1232 | N.D. | ✓ | |
| 5) Freon 114 | 5.54 | 135 | 949 | N.D. | ✓ | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 6.02 | 54 | 1470 | 0.069 | ng | # 46 |
| 8) Bromomethane | 6.49 | 94 | 836 | 0.052 | ng | 97 |
| 9) Chloroethane | 6.82 | 64 | 10098 | 0.741 | ng | 94 |
| 10) Ethanol | 7.10 | 45 | 46374m | 2.901 | ng | |
| 11) Acetonitrile | 7.44 | 41 | 111526 | 2.413 | ng | 97 |
| 12) Acrolein | 7.67 | 56 | 11284 | 0.988 | ng | 92 |
| 13) Acetone | 7.87 | 58 | 174627m | 10.670 | ng | |
| 14) Trichlorofluoromethane | 8.14 | 101 | 31949 | 0.841 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 29142 | 0.558 | ng | 95 |
| 16) Acrylonitrile | 8.66 | 53 | 2105 | 0.084 | ng | 92 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 2298 | 0.138 | ng | 88 |
| 18) tert-Butanol | 9.27 | 59 | 11817m | 0.266 | ng | |
| 19) Methylene Chloride | 9.36 | 84 | 26313 | 1.439 | ng | 82 |
| 20) Allyl Chloride | 9.51 | 41 | 51 | N.D. | ✓ | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 5548 | 0.321 | ng | 90 |
| 22) Carbon Disulfide | 9.76 | 76 | 193395 | 2.786 | ng | 99 |
| 23) trans-1,2-Dichloroethene | 10.73 | 61 | 116 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 1453 | N.D. | ✓ | |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 412037 | 7.785 | ng | 86 |
| 26) Vinyl Acetate | 11.32 | 86 | 11878m | 3.927 | ng | |
| 27) 2-Butanone | 11.68 | 72 | 38325 | 3.208 | ng | # 88 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | ✓ | |
| 29) Diisopropyl Ether | 12.78 | 87 | 746410 | 50.994 | ng | # 1 |
| 30) Ethyl Acetate | 12.70 | 61 | 7000 | 1.086 | ng | 81 |
| 31) n-Hexane | 12.70 | 57 | 8199 | 0.252 | ng | # 71 |

1307

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:04:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|------------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 6975858 | 251.618 ng | NR | 99 |
| 34) Tetrahydrofuran | 13.38 | 72 | 1860 | 0.163 ng | # | 12 |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. ✓ | | |
| 36) 1,2-Dichloroethane | 13.90 | 62 | 1289 | N.D. ✓ | | |
| 38) 1,1,1-Trichloroethane | 14.30 | 97 | 1834 | 0.063 ng | | 87 |
| 39) Isopropyl Acetate | 14.97 | 61 | 662 | 0.061 ng | # | 1 |
| 40) 1-Butanol | 14.84 | 56 | 100549 | 5.752 ng | | 87 |
| 41) Benzene | 14.99 | 78 | 109228 | 1.640 ng | | 100 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 288376 | 11.246 ng | | 100 |
| 43) Cyclohexane | 15.41 | 84 | 14496 | 0.560 ng | # | 1 |
| 44) tert-Amyl Methyl Ether | 15.89 | 73 | 1723 | N.D. ✓ | | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 697 | N.D. ✓ | | |
| 46) Bromodichloromethane | 16.46 | 83 | 18507 | 0.822 ng | | 87 |
| 47) Trichloroethene | 16.53 | 130 | 25553 | 1.251 ng | | 97 |
| 48) 1,4-Dioxane | 16.49 | 88 | 5875 | 0.468 ng | | 88 |
| 49) Isooctane | 16.62 | 57 | 36072 | 0.473 ng | # | 40 |
| 50) Methyl Methacrylate | 16.69 | 100 | 652 | 0.098 ng | NR # | 1 |
| 51) n-Heptane | 16.97 | 71 | 10593 | 0.599 ng | # | 82 |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. ✓ | | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 3986 | 0.225 ng | | 72 |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. ✓ | | |
| 55) 1,1,2-Trichloroethane | 18.56 | 97 | 1143 | 0.069 ng | NR # | 53 |
| 58) Toluene | 19.06 | 91 | 43786 | 0.587 ng | | 97 |
| 59) 2-Hexanone | 19.37 | 43 | 51973 | 1.012 ng | # | 51 |
| 60) Dibromochloromethane | 19.60 | 129 | 2316 | 0.115 ng | | 95 |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. ✓ | | |
| 62) Butyl Acetate | 20.19 | 43 | 18244 | 0.350 ng | # | 72 |
| 63) n-Octane | 20.35 | 57 | 12449 | 0.755 ng | | 92 |
| 64) Tetrachloroethene | 20.54 | 166 | 70674 | 3.204 ng | | 98 |
| 65) Chlorobenzene | 21.43 | 112 | 7092 | 0.142 ng | # | 42 |
| 66) Ethylbenzene | 21.89 | 91 | 91589 | 1.071 ng | | 93 |
| 67) m- & p-Xylene | 22.10 | 91 | 239226 | 4.184 ng | | 92 |
| 68) Bromoform | 22.21 | 173 | 337 | N.D. ✓ | | |
| 69) Styrene | 22.57 | 104 | 3936 | 0.077 ng | | 87 |
| 70) o-Xylene | 22.71 | 91 | 127306 | 2.063 ng | | 98 |
| 71) n-Nonane | 22.98 | 43 | 26029 | 0.594 ng | # | 76 |
| 72) 1,1,2,2-Tetrachloroethane | 22.74 | 83 | 901 | N.D. ✓ | | |
| 74) Cumene | 23.46 | 105 | 20071 | 0.244 ng | | 99 |
| 75) alpha-Pinene | 23.97 | 93 | 2331 | 0.055 ng | # | 46 |
| 76) n-Propylbenzene | 24.10 | 91 | 53901 | 0.515 ng | # | 89 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 51123 | 0.584 ng | | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 48201 | 0.591 ng | | 95 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 86058 | 1.168 ng | | 100 |

1308

5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:04:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

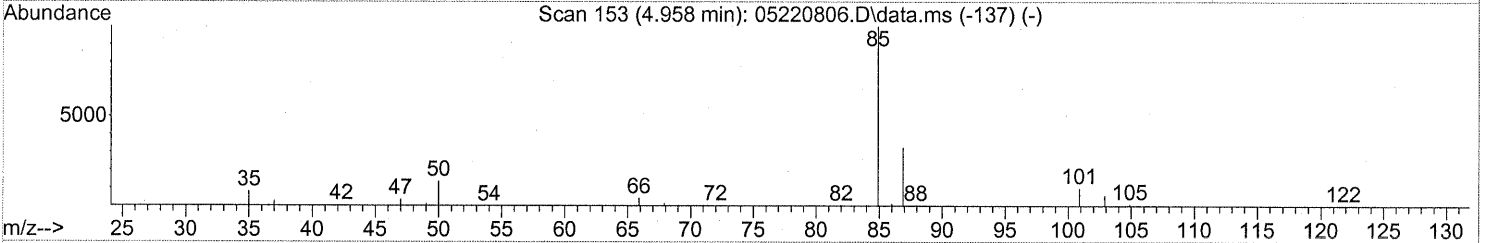
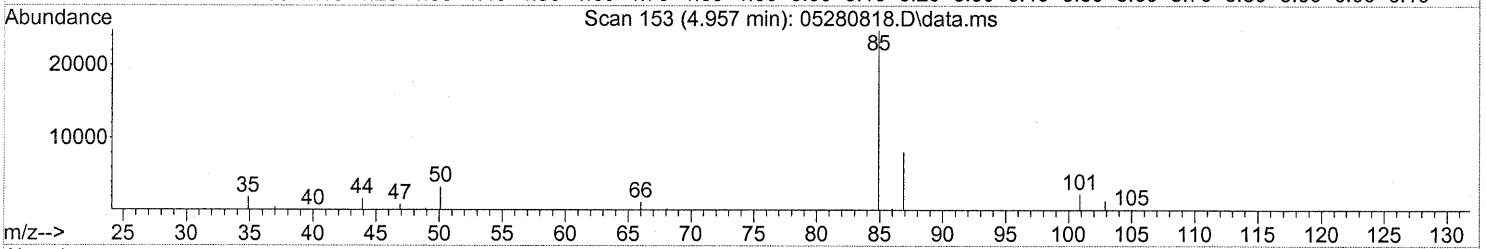
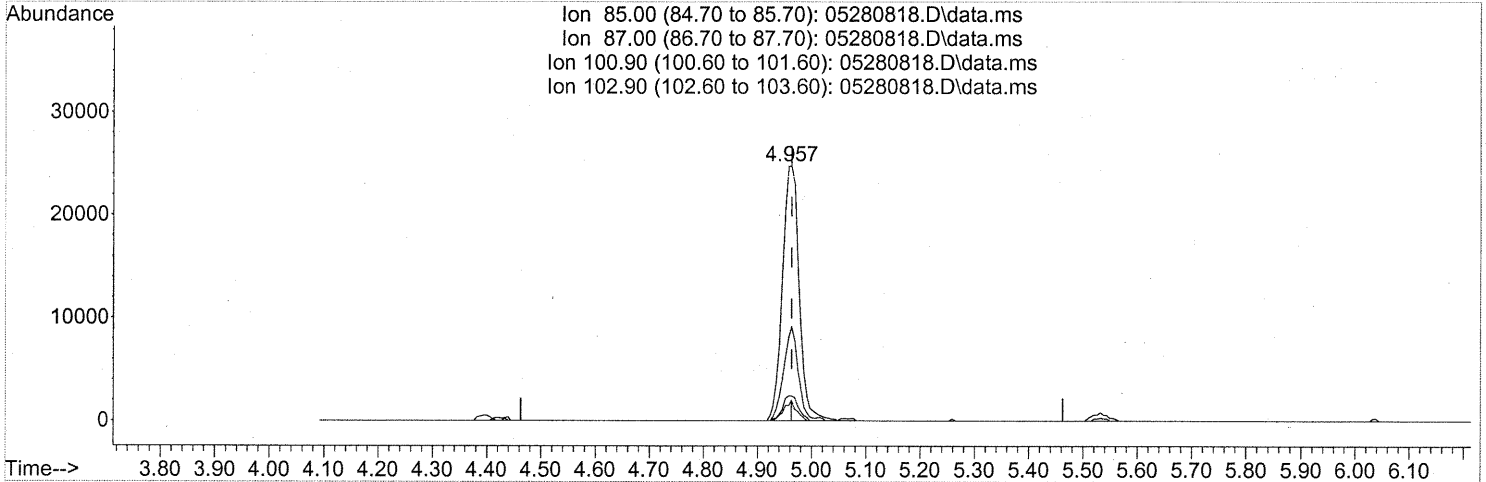
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|-------|-------|-----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 840 | N.D. | ✓ | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 73776 | 0.832 | ng | 98 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 143741 | 1.916 | ng | 88 |
| 83) n-Decane | 24.98 | 57 | 26288 | 0.637 | ng | 68 |
| 84) Benzyl Chloride | 25.05 | 91 | 1219 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 6647 | 0.142 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 20239 | 0.445 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 13118 | 0.137 | ng | 94 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 26050 | 0.330 | ng | 82 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 45533 | 0.620 | ng | 91 |
| 90) 1,2-Dichlorobenzene | 25.57 | 146 | 97929 | 2.202 | ng | 100 |
| 91) d-Limonene | 25.58 | 68 | 3988 | 0.133 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.24 | 157 | 256 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 54771 | 1.268 | ng | # 68 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 798 | N.D. | ✓ | |
| 95) Naphthalene | 27.77 | 128 | 50813 | 0.514 | ng | 96 |
| 96) n-Dodecane | 27.73 | 57 | 53418 | 1.243 | ng | 84 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 212 | N.D. | ✓ | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(3) Dichlorodifluoromethane (T)

4.957min (-0.006) 1.20ng

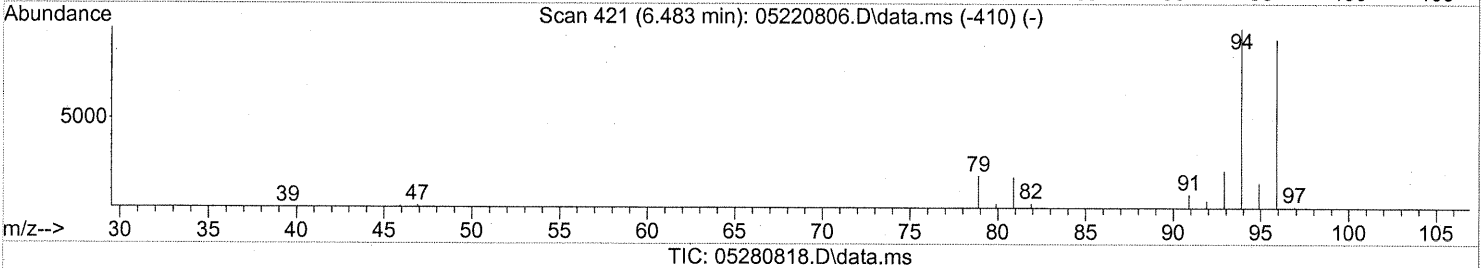
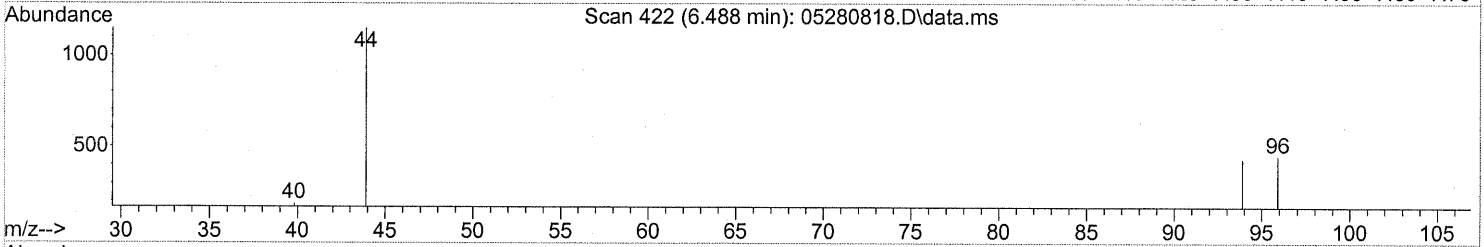
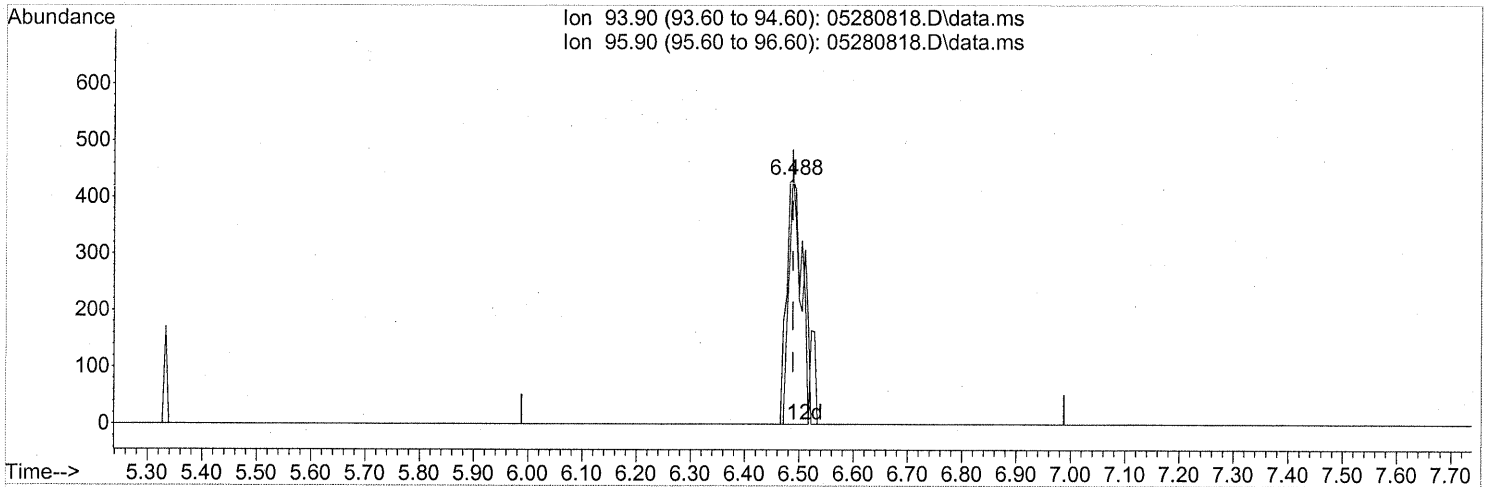
response 53052

| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 32.39 |
| 100.90 | 9.30 | 9.16 |
| 102.90 | 6.00 | 5.75 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



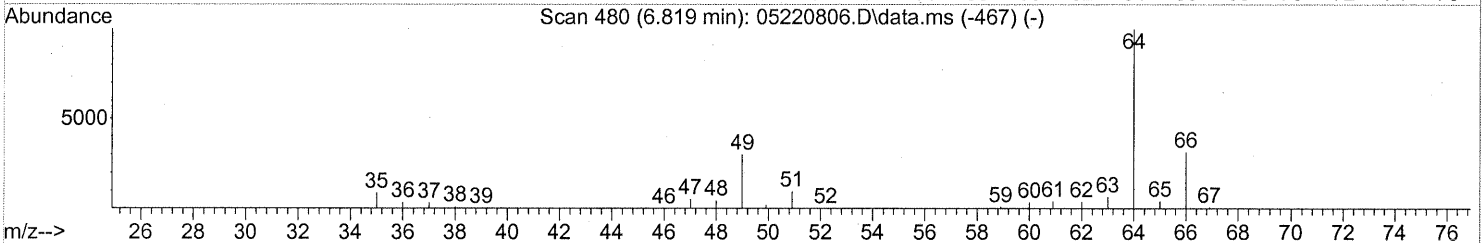
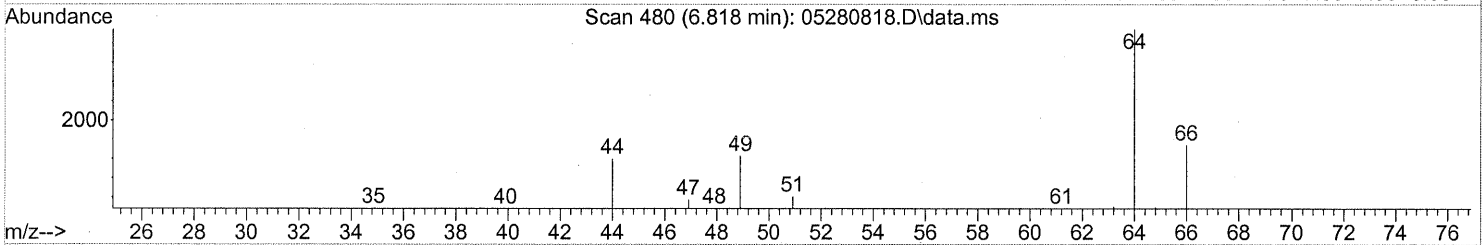
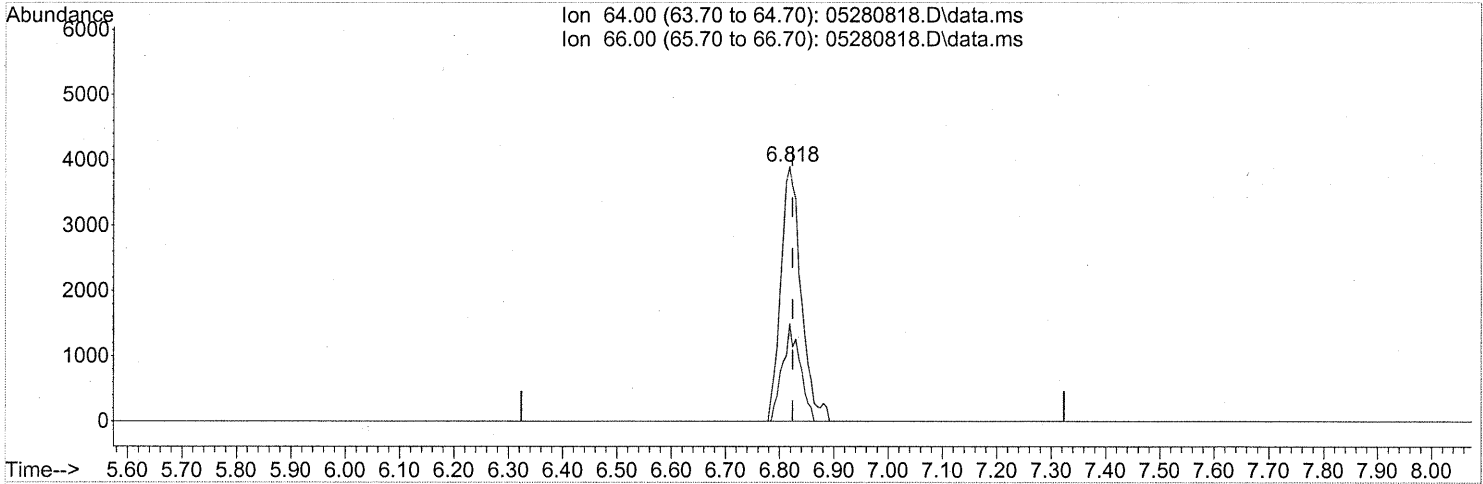
(8) Bromomethane (T)
 6.488min (-0.000) 0.05ng
 response 836

| Ion | Exp% | Act% |
|-------|-------|-------|
| 93.90 | 100 | 100 |
| 95.90 | 92.30 | 89.00 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
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Quant Time: May 29 04:16:10 2008
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TIC: 05280818.D\data.ms

(9) Chloroethane (T)
 6.818min (-0.006) 0.74ng
 response 10098

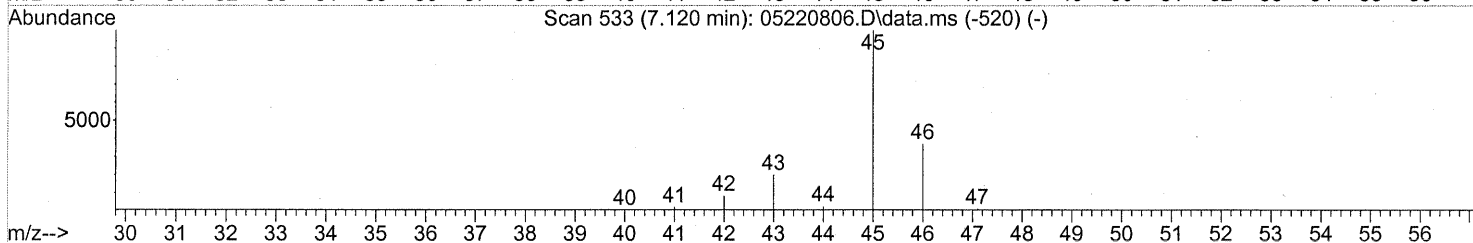
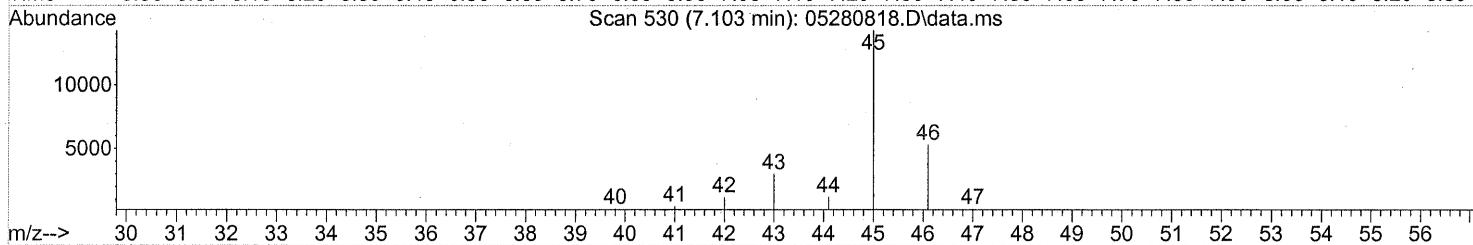
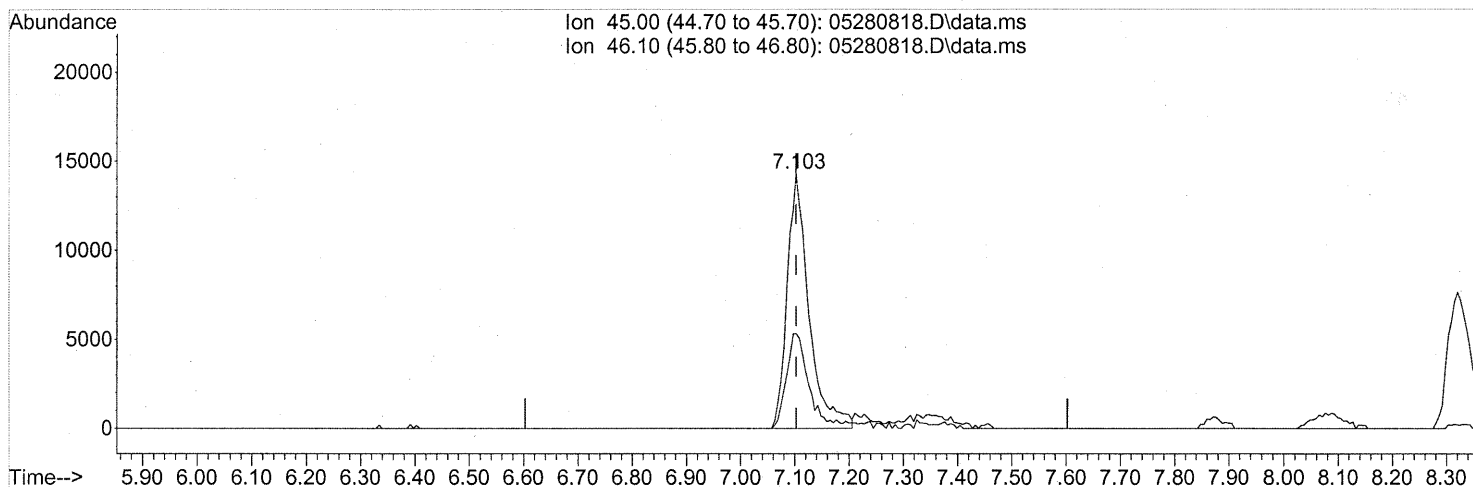
| Ion | Exp% | Act% |
|-------|-------|-------|
| 64.00 | 100 | 100 |
| 66.00 | 29.60 | 33.07 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1312

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(10) Ethanol (T)

7.103min (-0.000) 2.48ng

response 39659

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 40.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

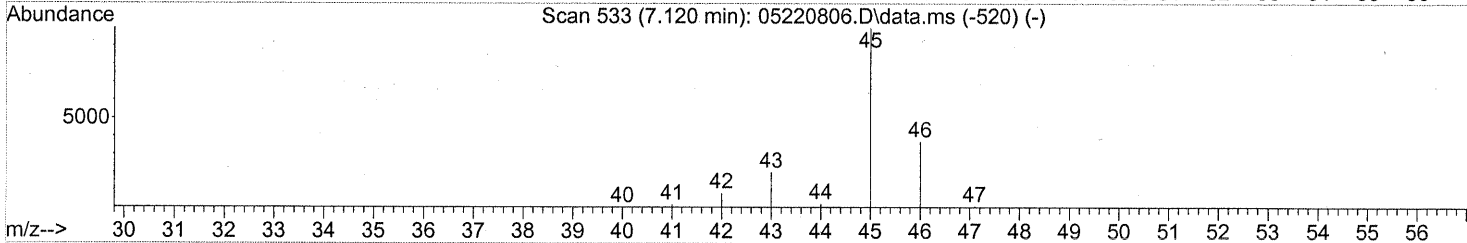
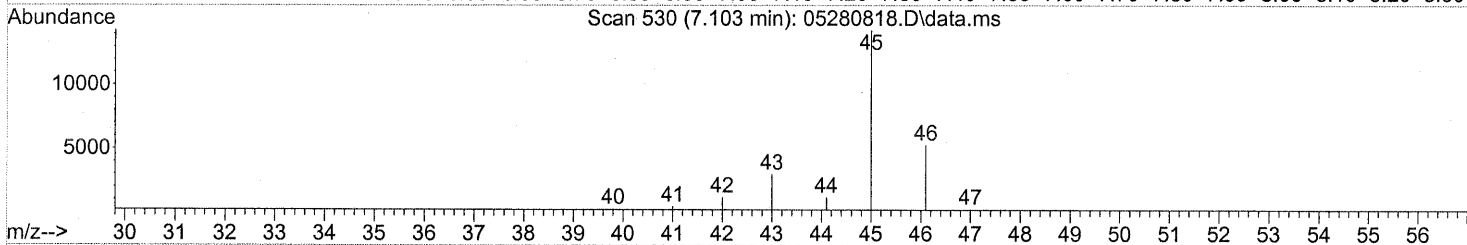
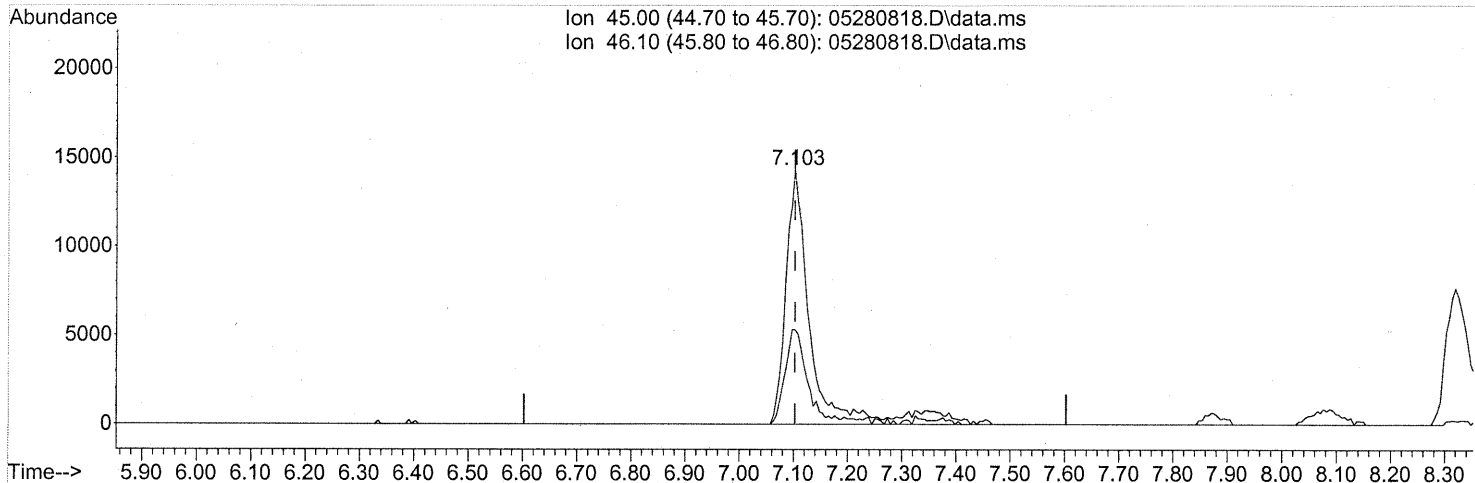
fauling

1313

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 2.90ng m

response 46374

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 34.39 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

incl. tailing

WA 5/27/08

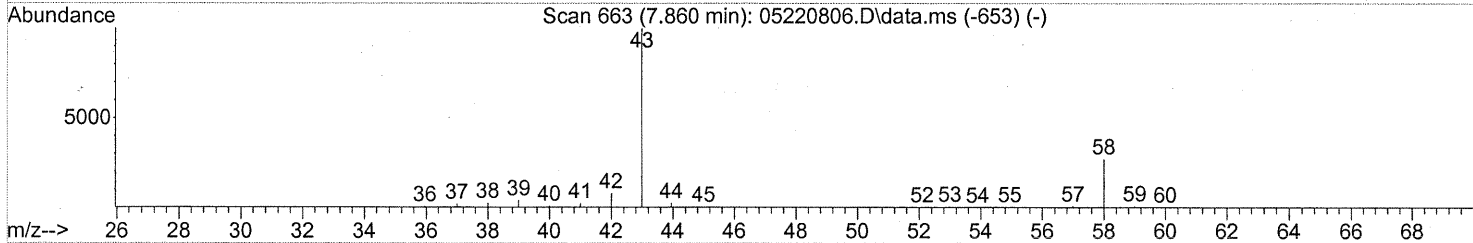
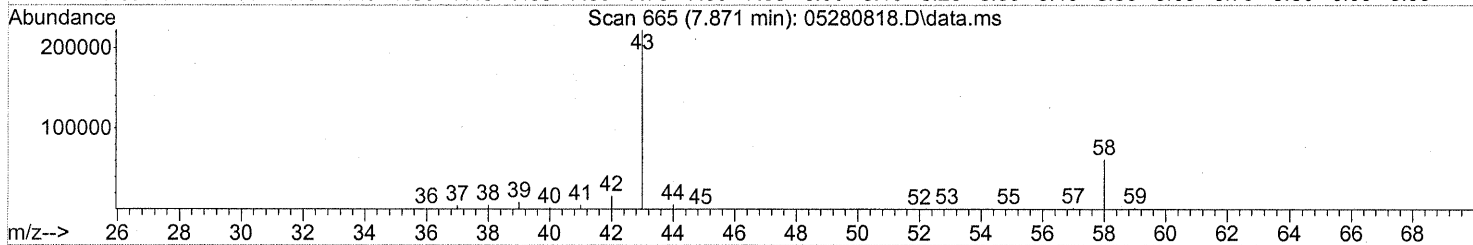
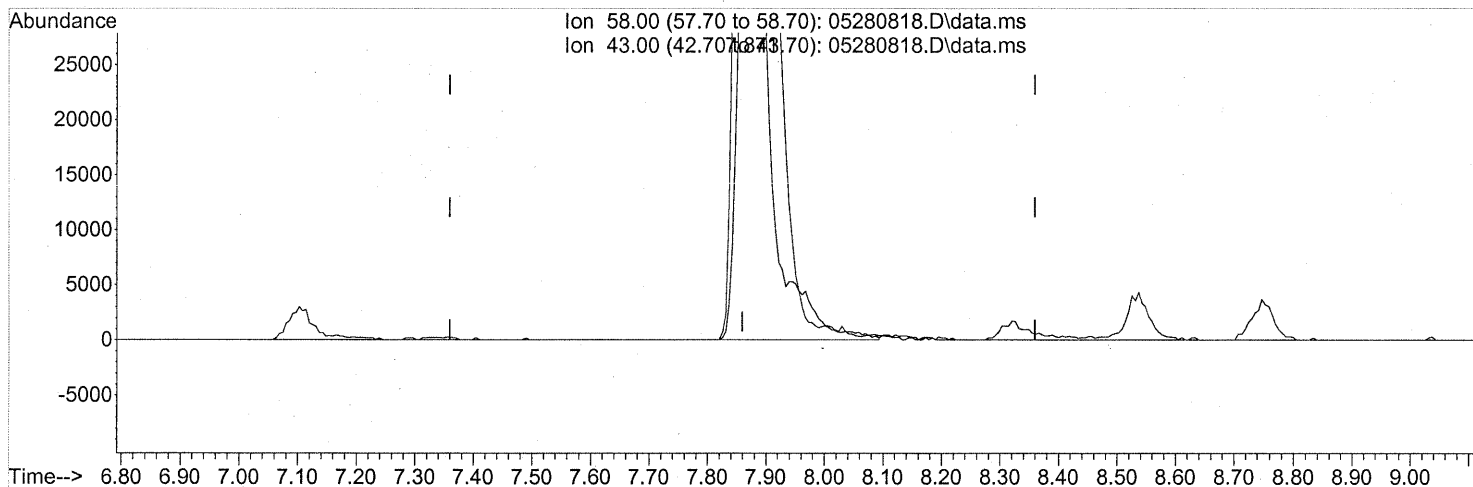
F 06/02/08

1314

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(13) Acetone (T)
 7.871min (+0.011) 11.73ng
 response 192040

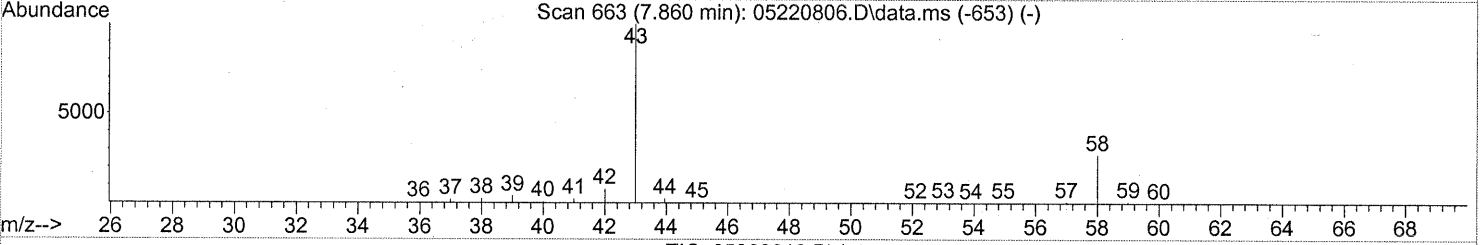
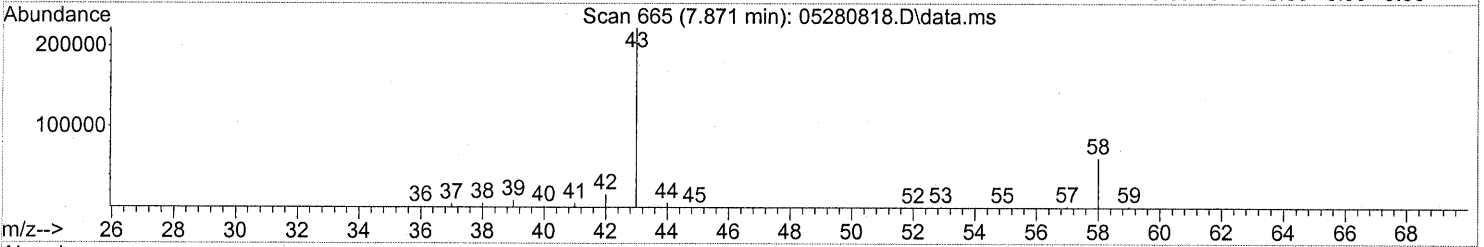
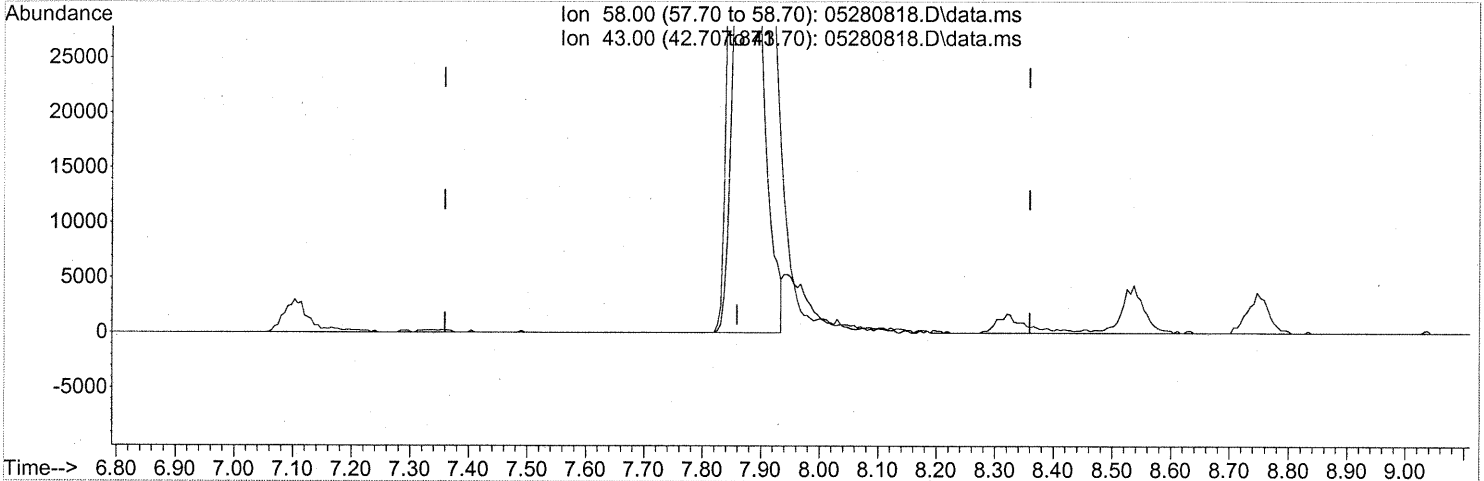
| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 345.33# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

interf. shoulder

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 28 May 2008 22:46
Operator : WA
Sample : P0801483-028 (1000ml)
Misc : ENSR SG07B-05D (-3.8, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280818.D\data.ms

(13) Acetone (T)

7.871min (+0.011) 10.67ng m

response 174627

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 379.77# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

10. shoulder

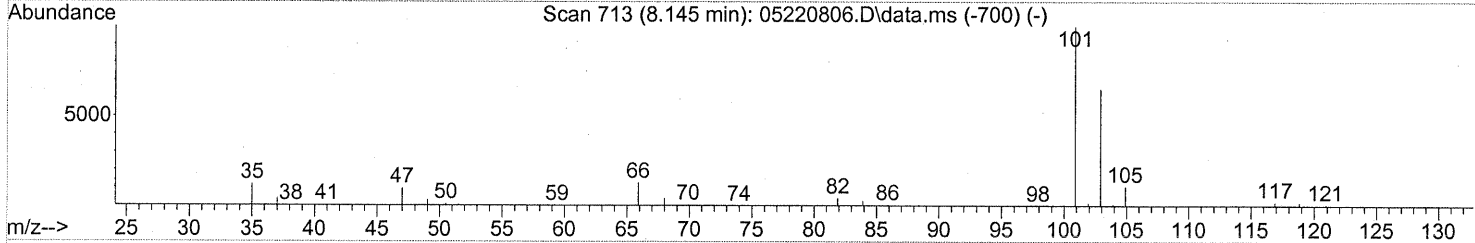
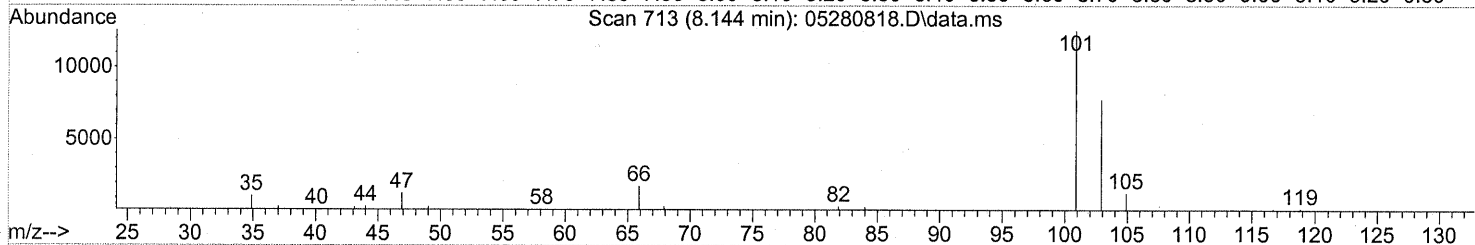
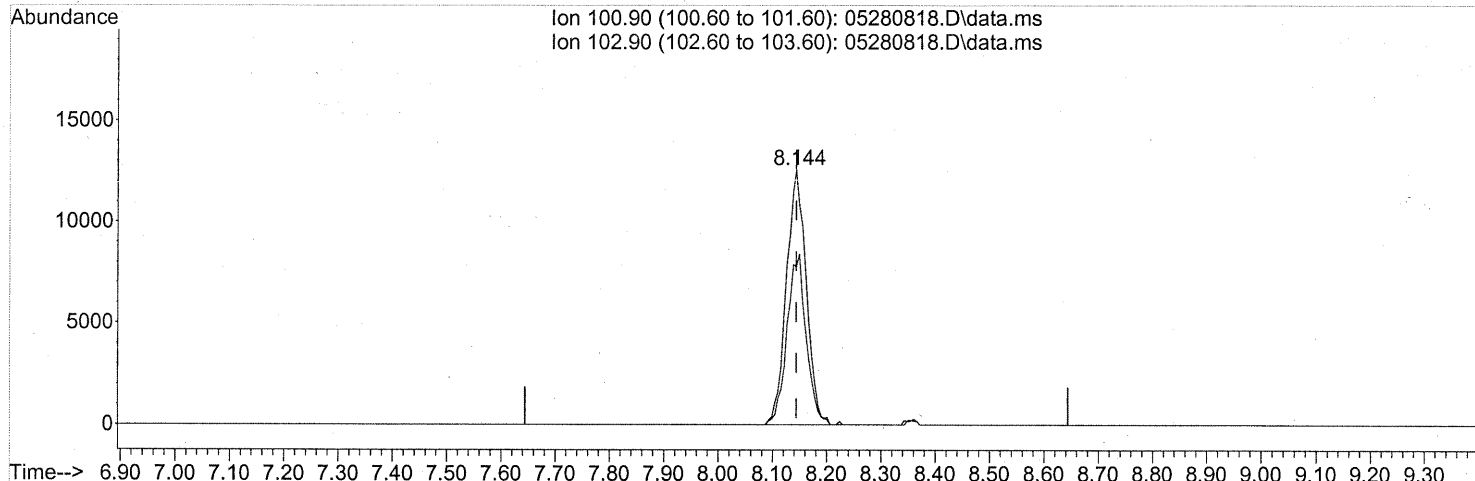
DA 5/31/08

F 05/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.84ng

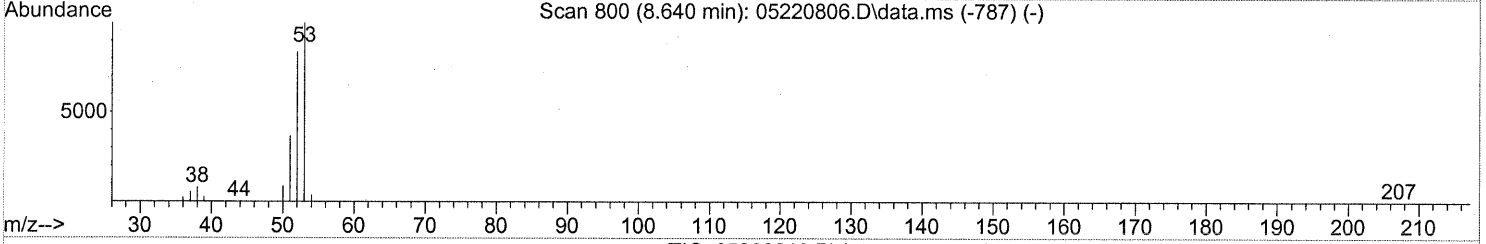
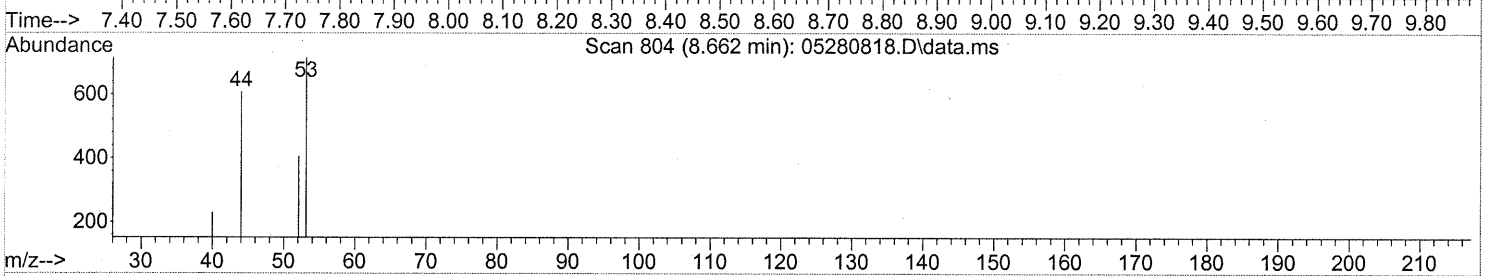
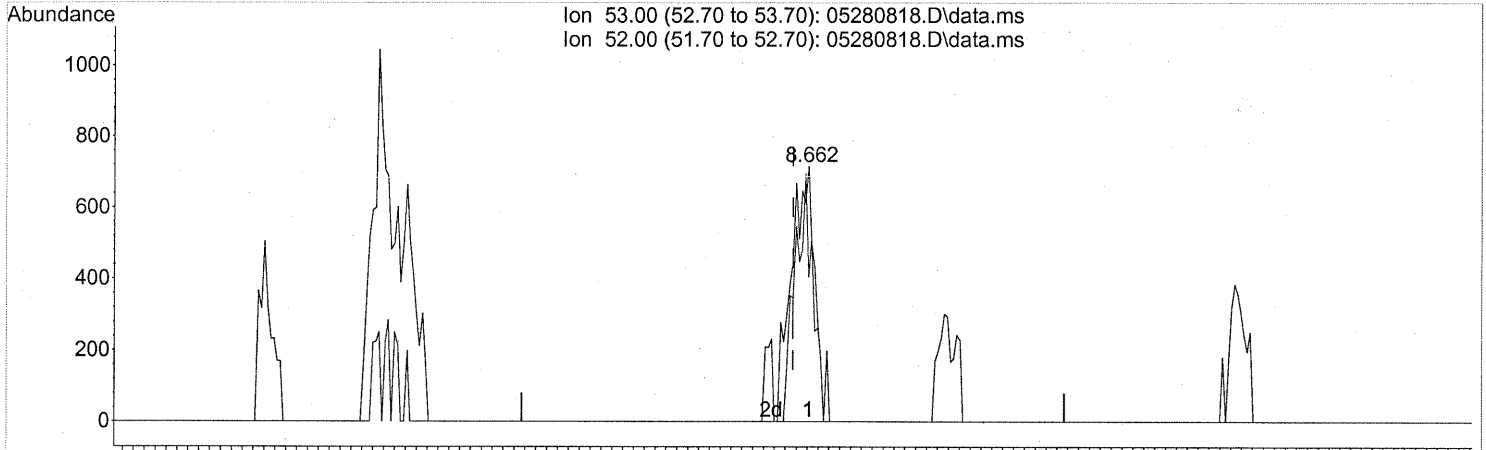
response 31949

| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 64.80 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.662min (+0.028) 0.08ng
 response 2105

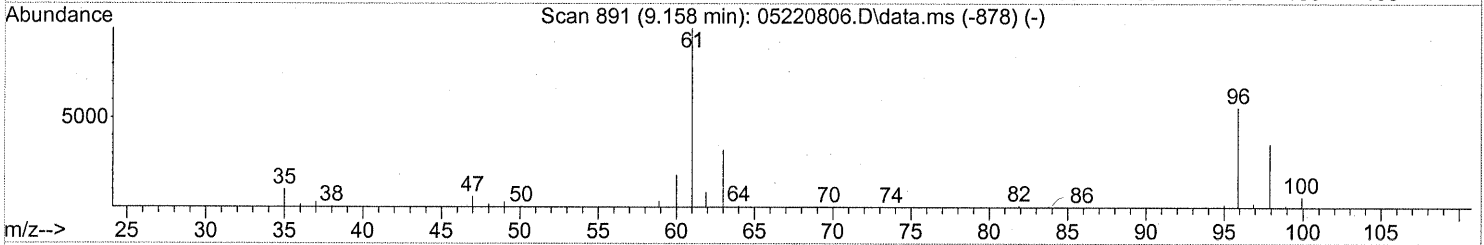
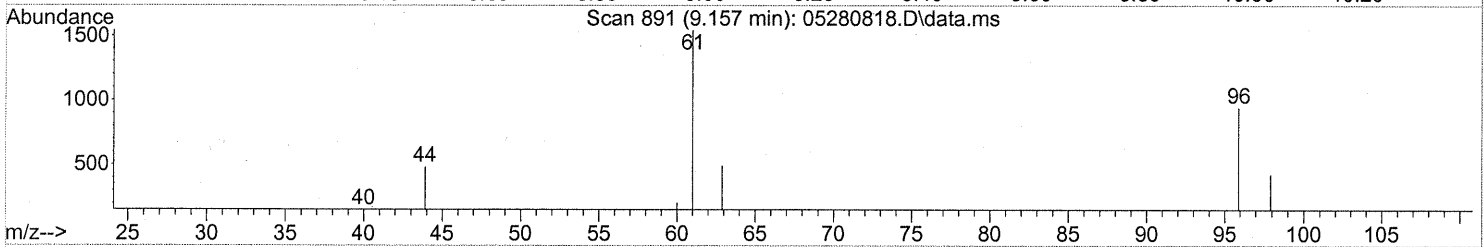
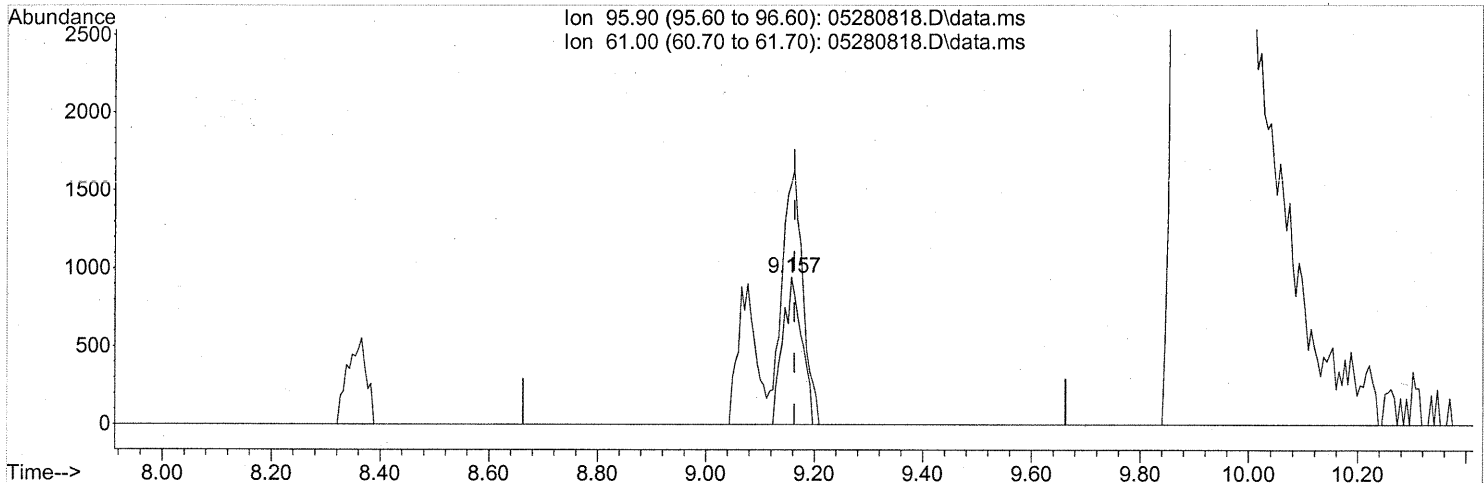
| Ion | Exp% | Act% |
|-------|-------|-------|
| 53.00 | 100 | 100 |
| 52.00 | 82.50 | 75.25 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1318

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.157min (-0.006) 0.14ng

response 2298

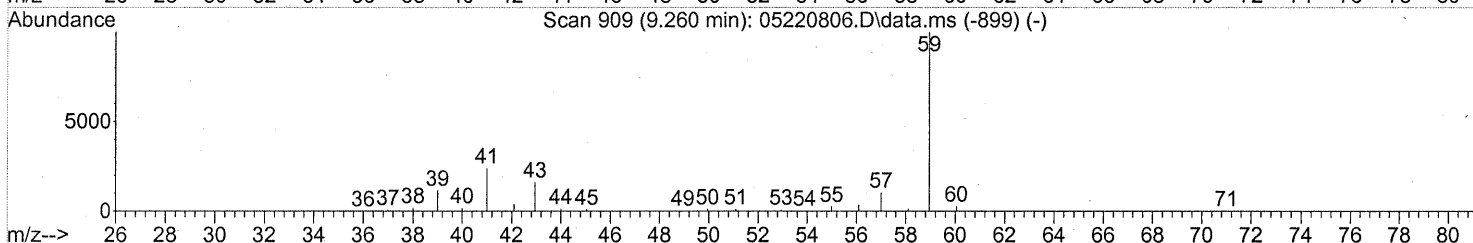
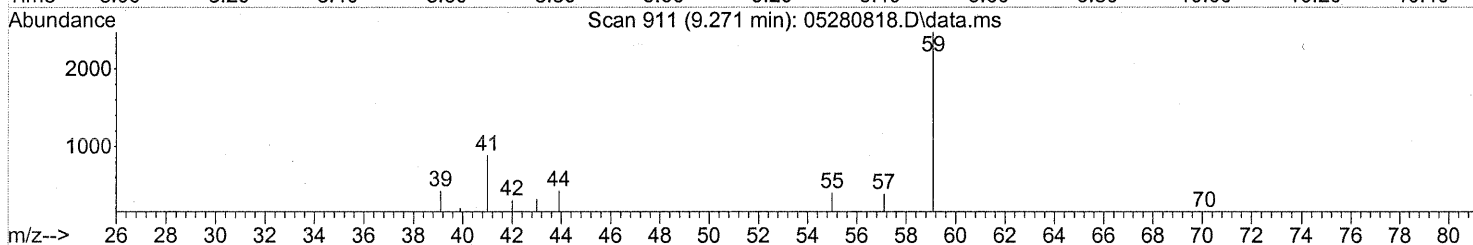
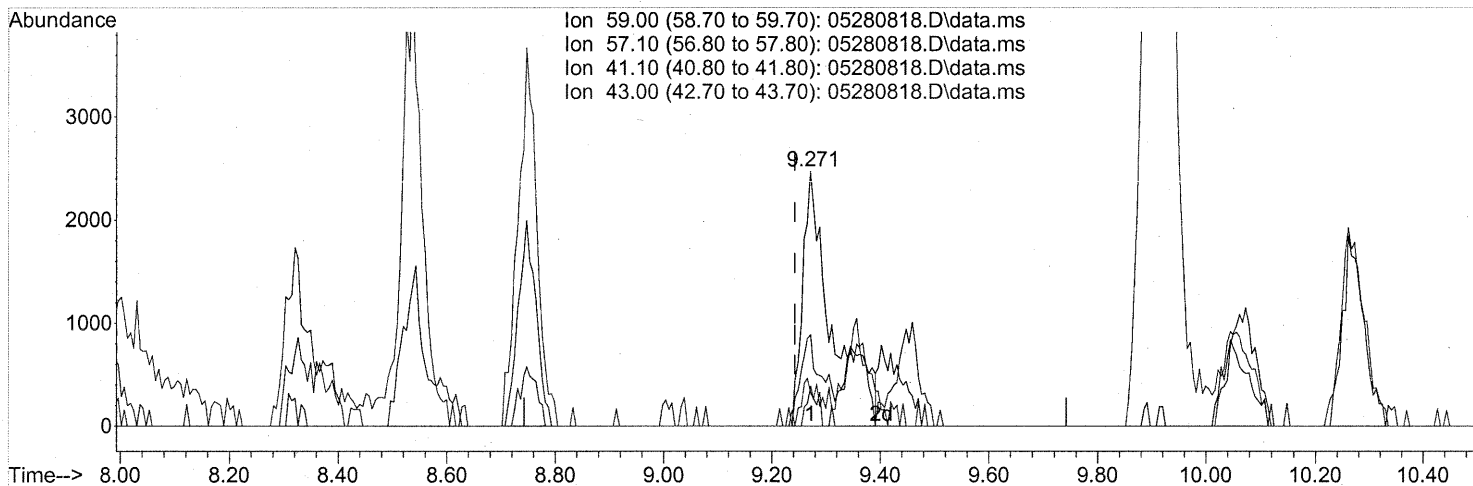
| Ion | Exp% | Act% |
|-------|--------|--------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 191.38 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1319

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.271min (+0.028) 0.21ng
 response 9468

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 5.71 |
| 41.10 | 20.10 | 27.56 |
| 43.00 | 12.30 | 13.36 |

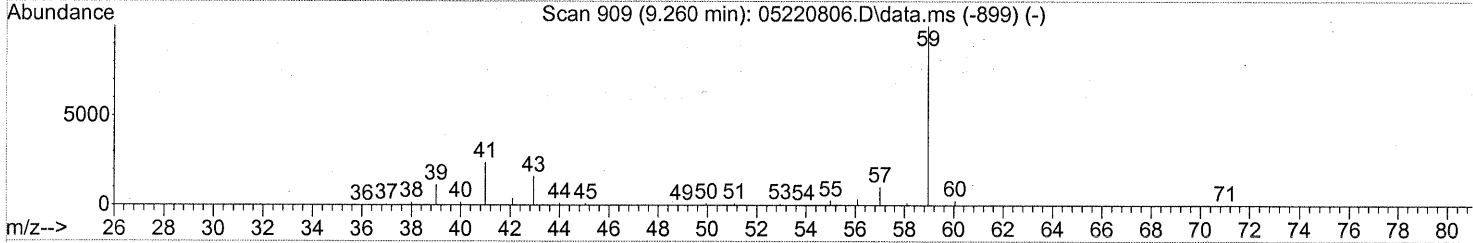
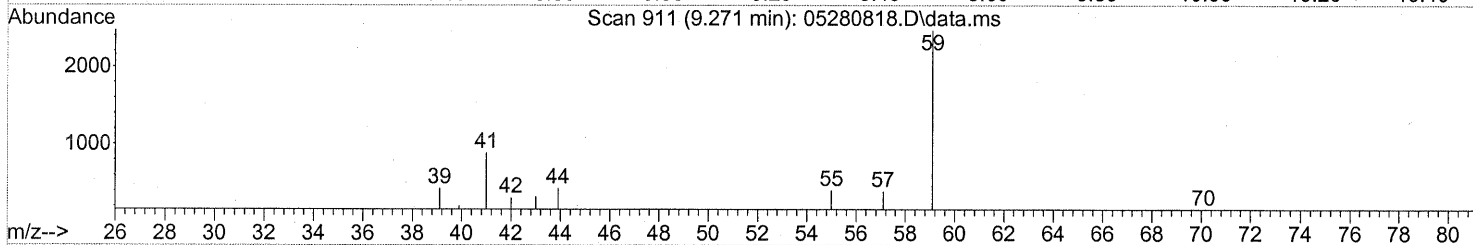
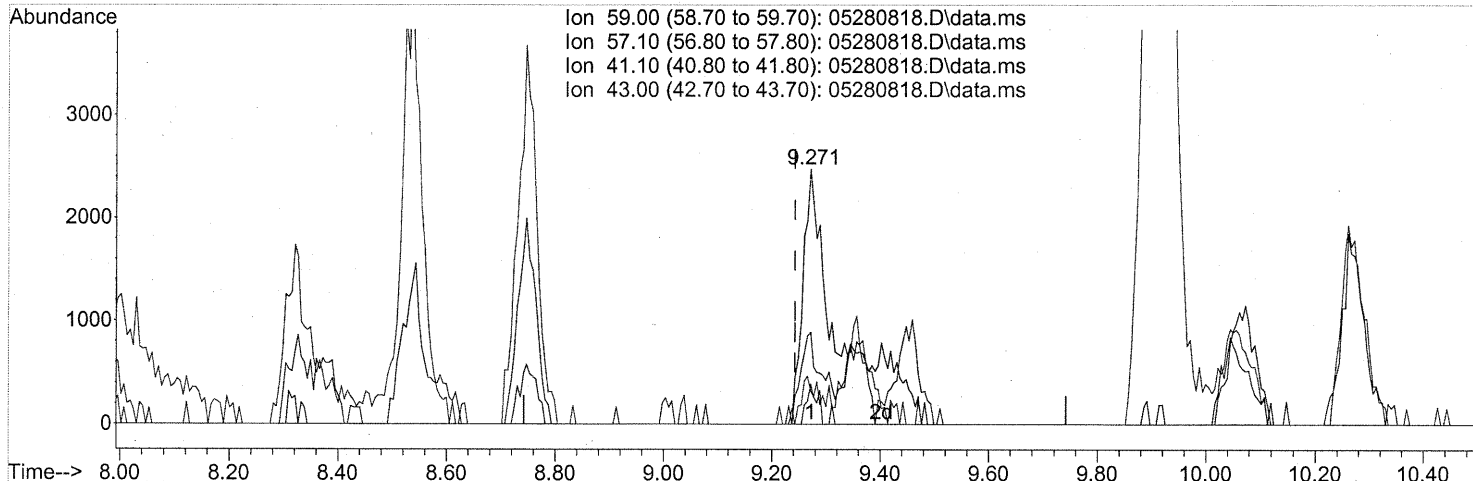
split peaks

1320

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.27ng m

response 11817

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 4.58 |
| 41.10 | 20.10 | 22.08 |
| 43.00 | 12.30 | 10.70 |

int. whole peaks

5/28/08

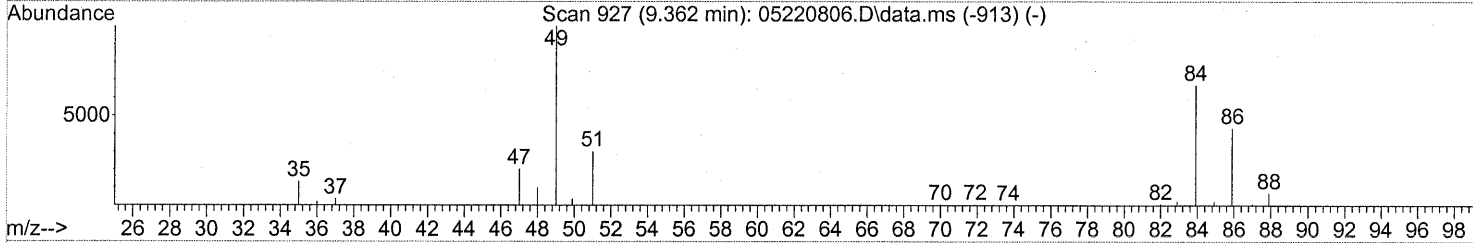
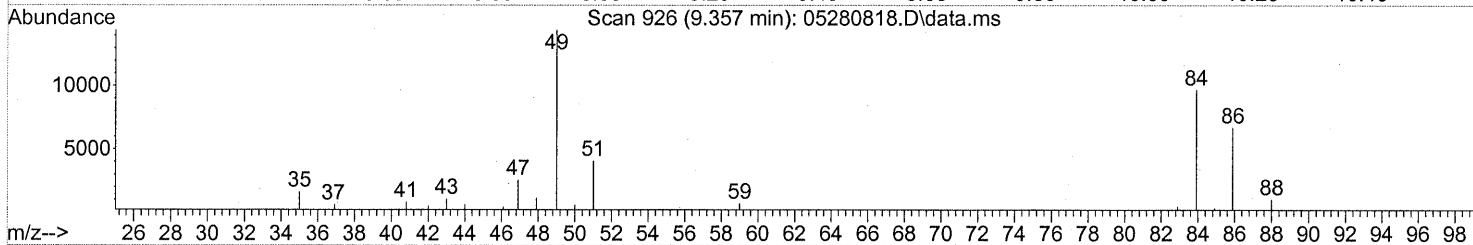
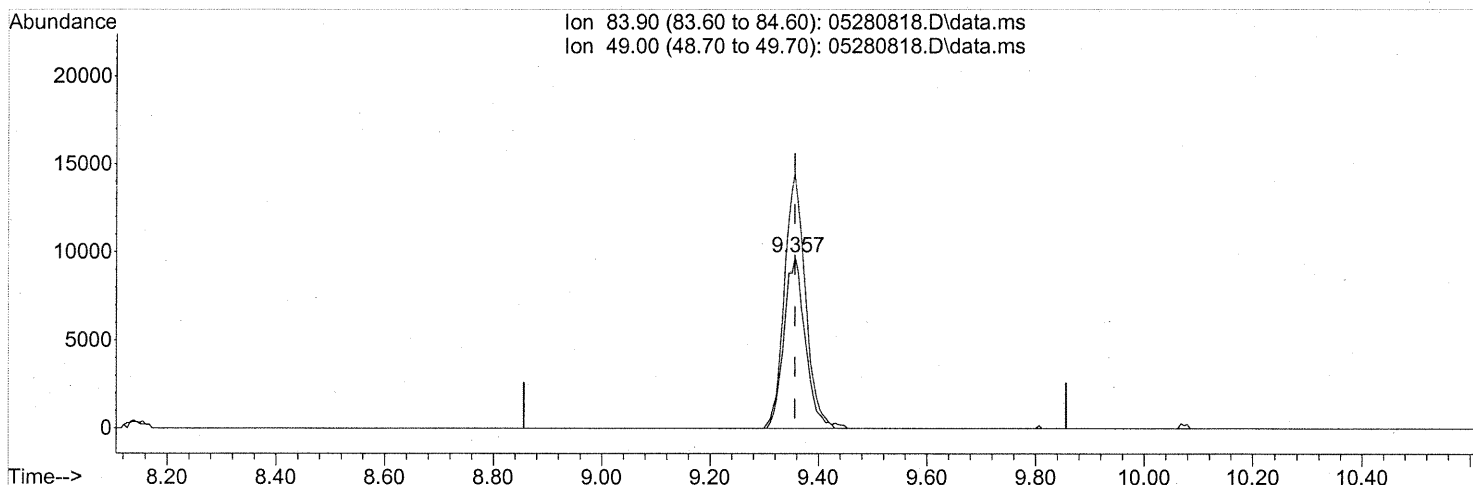
86/12/08

1321

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(19) Methylene Chloride (T)

9.357min (-0.000) 1.44ng

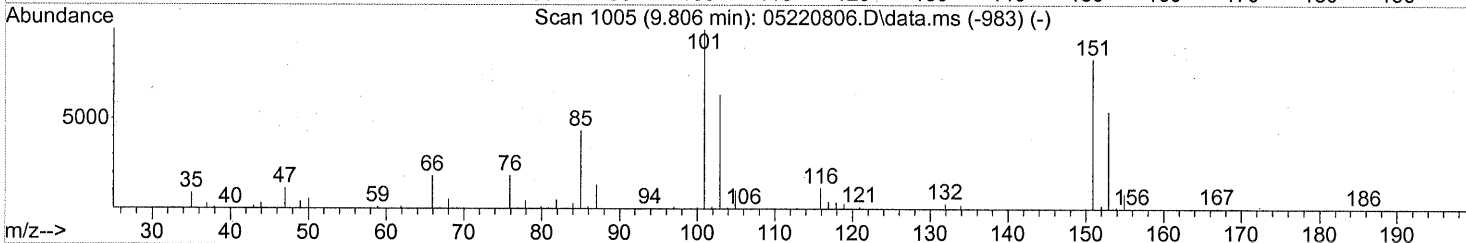
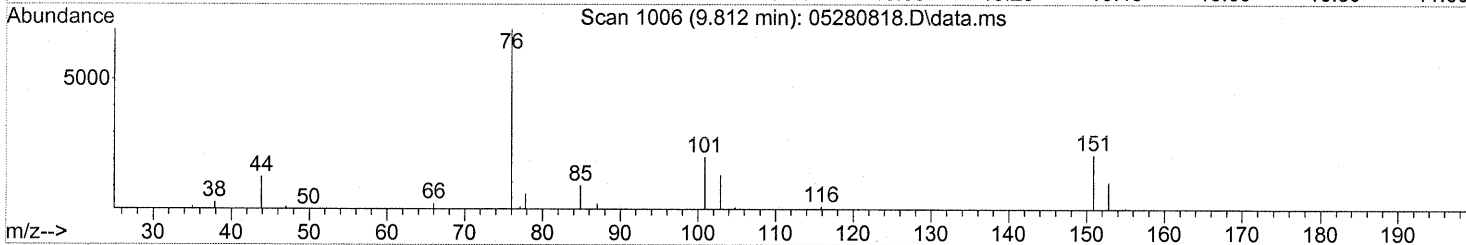
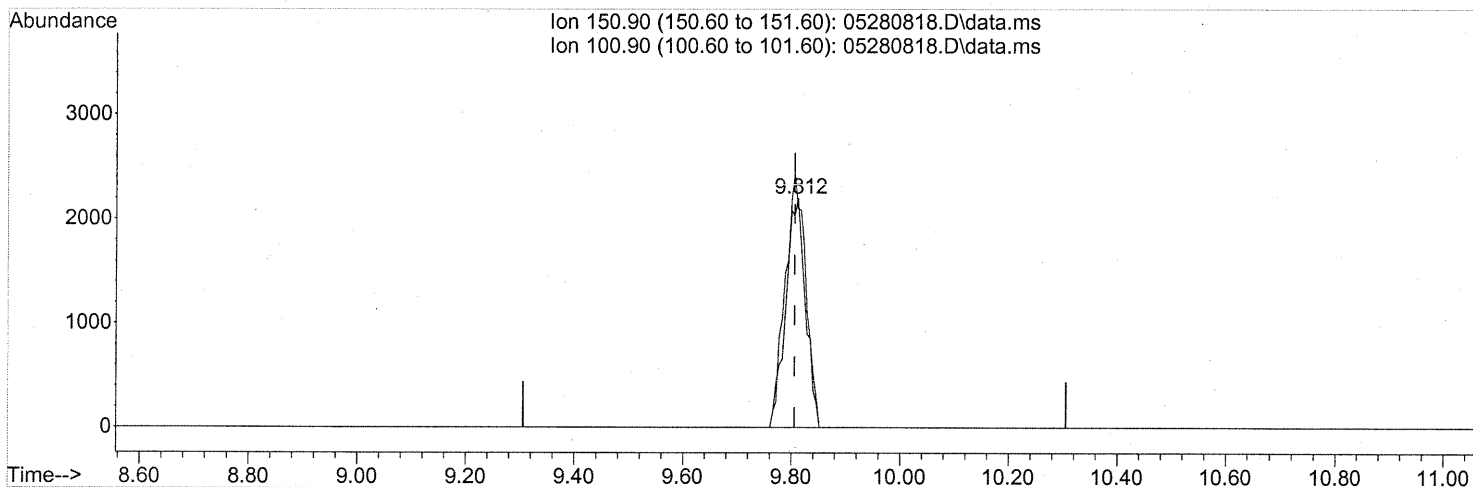
response 26313

| Ion | Exp% | Act% |
|-------|--------|--------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 148.33 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.32ng

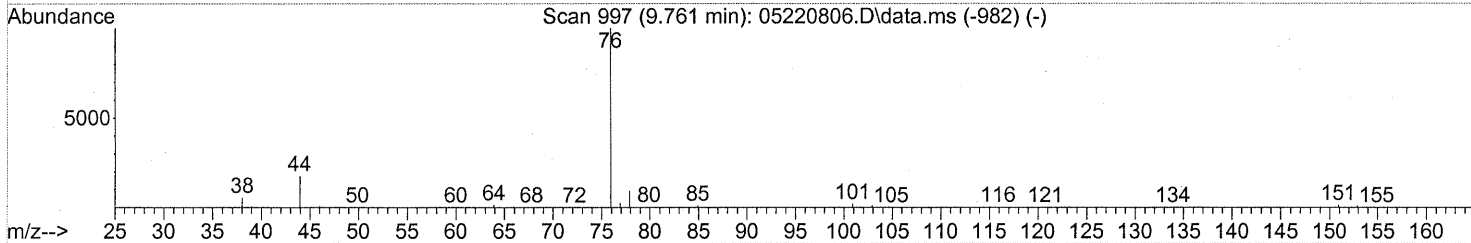
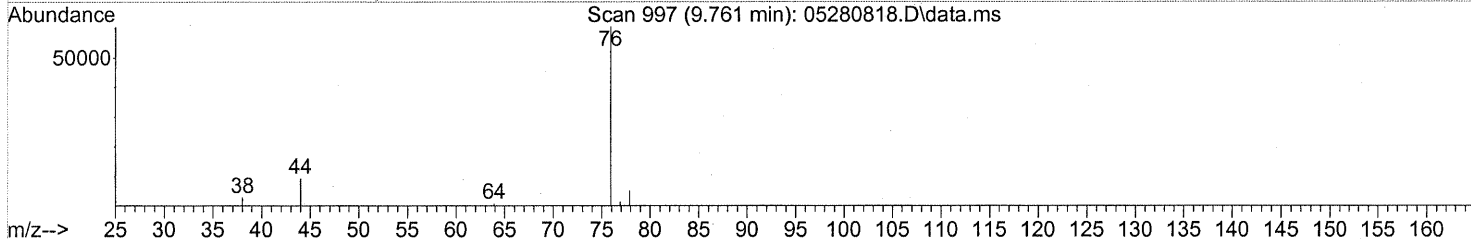
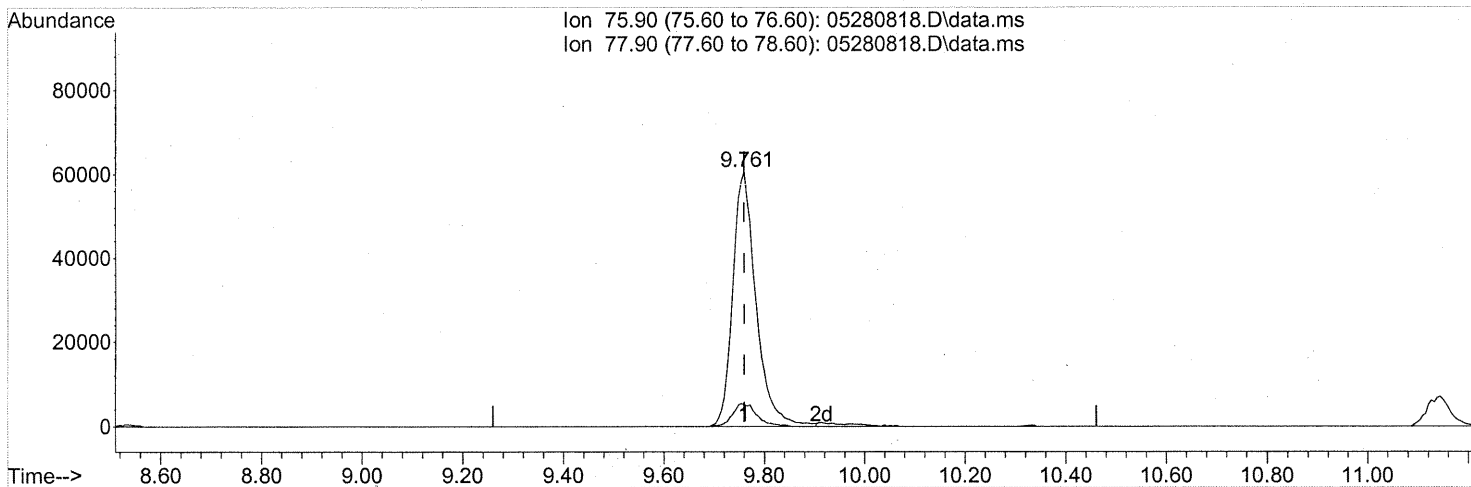
response 5548

| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 115.25 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 28 May 2008 22:46
Operator : WA
Sample : P0801483-028 (1000ml)
Misc : ENSR SG07B-05D (-3.8, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280818.D\data.ms

(22) Carbon Disulfide (T)

9.761min (-0.000) 2.79ng

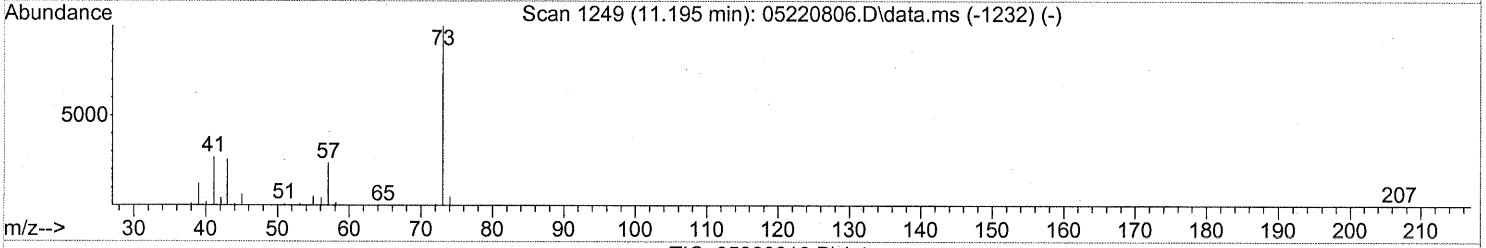
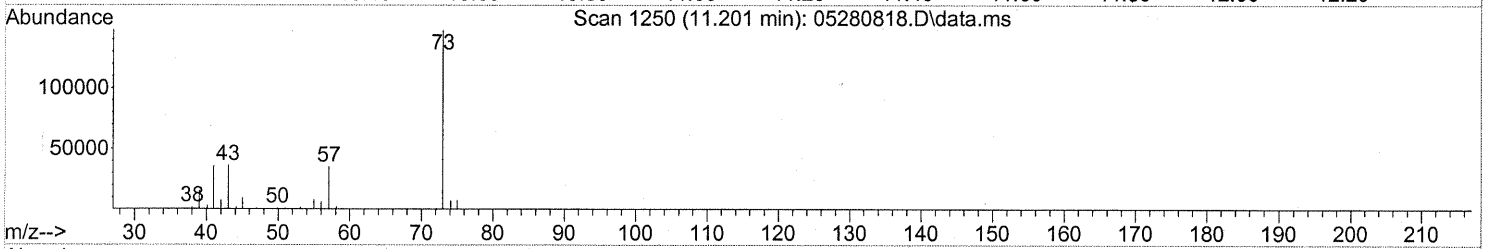
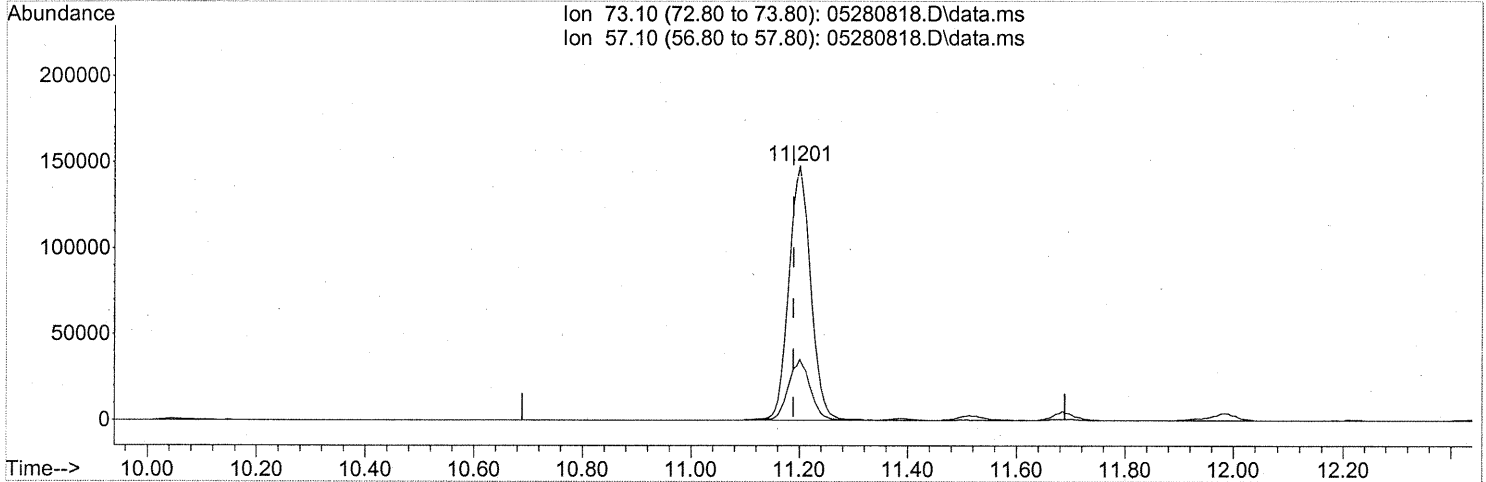
response 193395

| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 9.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.201min (+0.011) 7.79ng

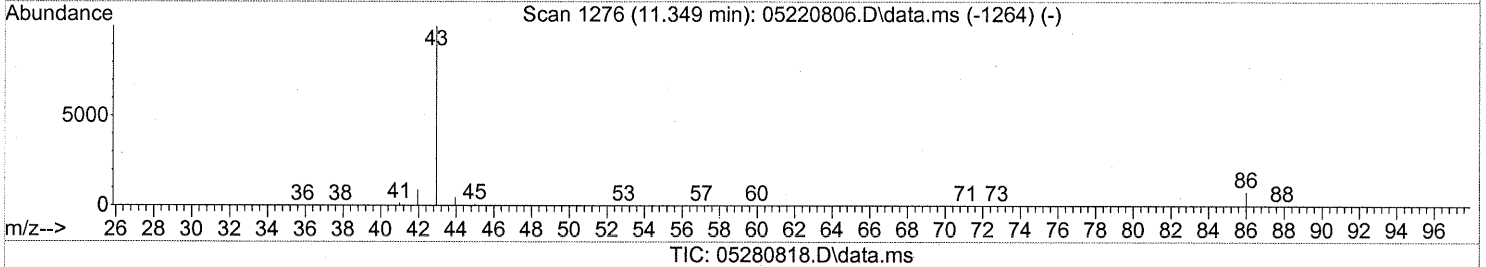
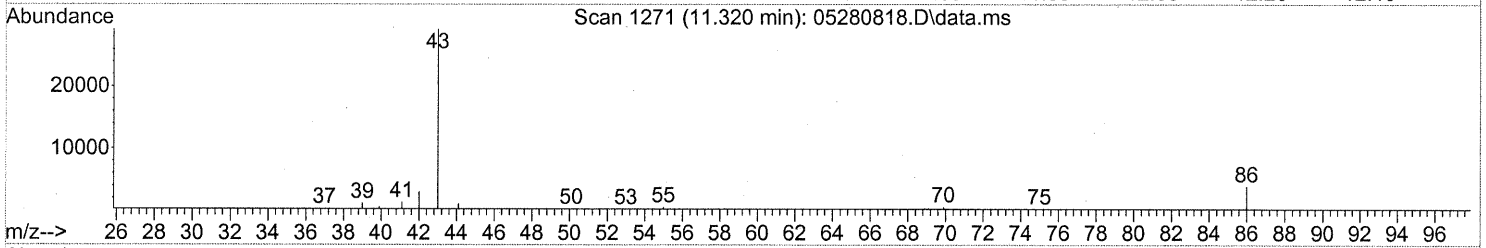
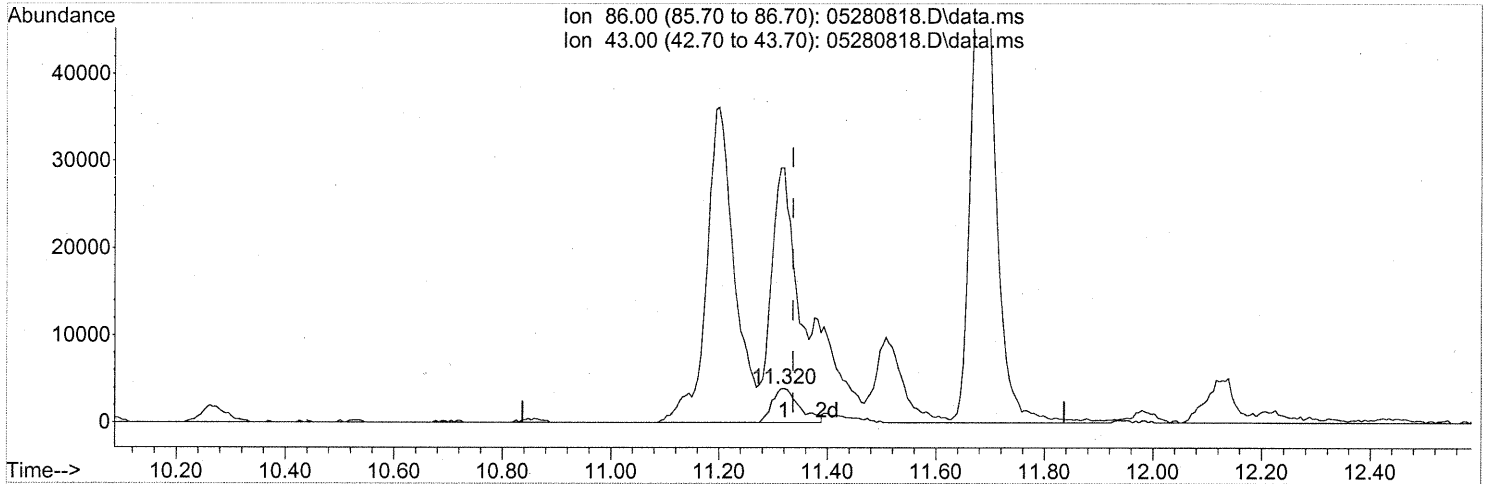
response 412037

| Ion | Exp% | Act% |
|-------|-------|-------|
| 73.10 | 100 | 100 |
| 57.10 | 31.40 | 23.73 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.320min (-0.017) 4.45ng

response 13456

| Ion | Exp% | Act% |
|-------|---------|----------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 1000.52# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

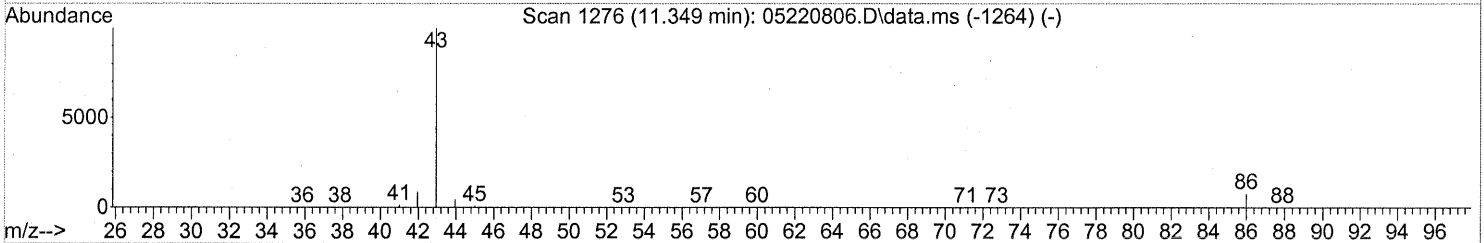
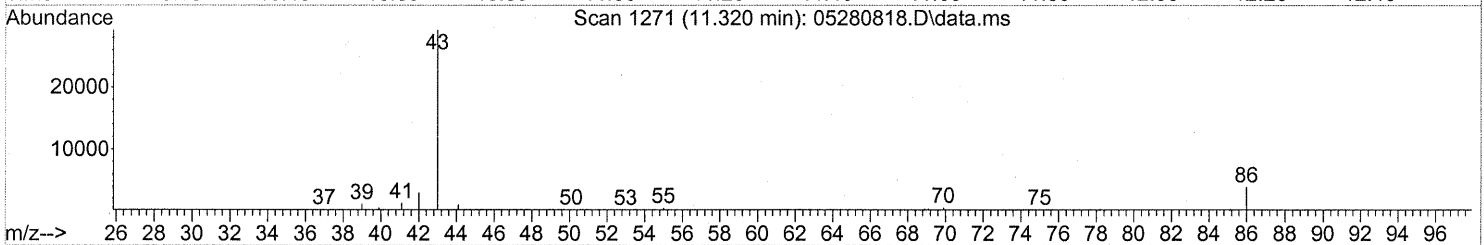
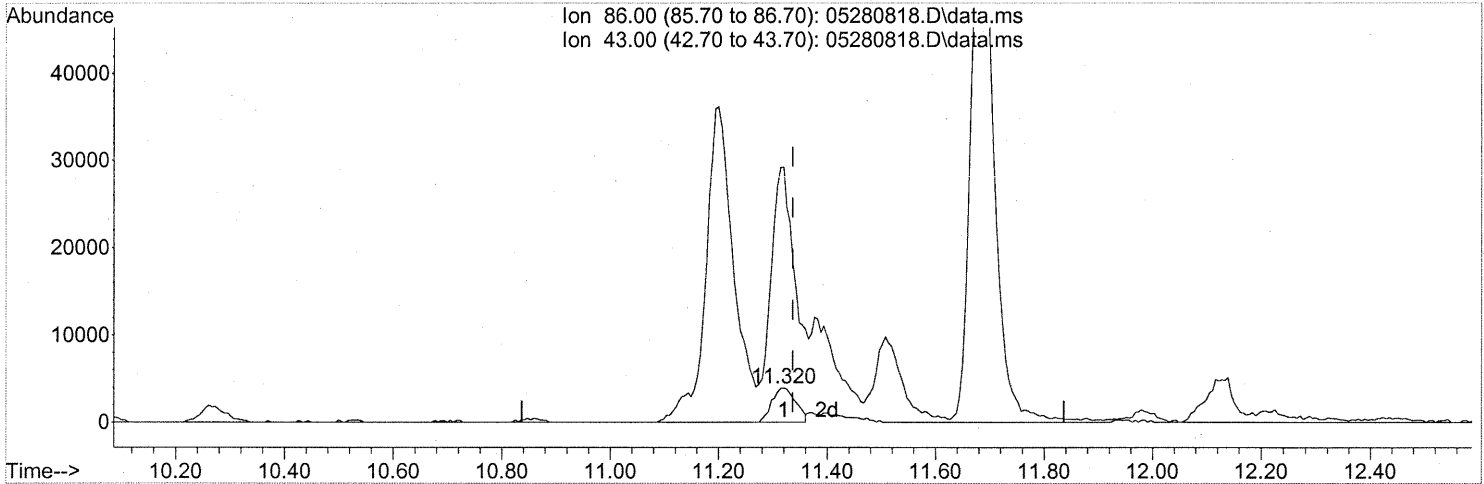
tailing

1326

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 28 May 2008 22:46
Operator : WA
Sample : P0801483-028 (1000ml)
Misc : ENSR SG07B-05D (-3.8, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.320min (-0.017) 3.93ng m

response 11878

| Ion | Exp% | Act% |
|-------|---------|----------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 1133.44# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

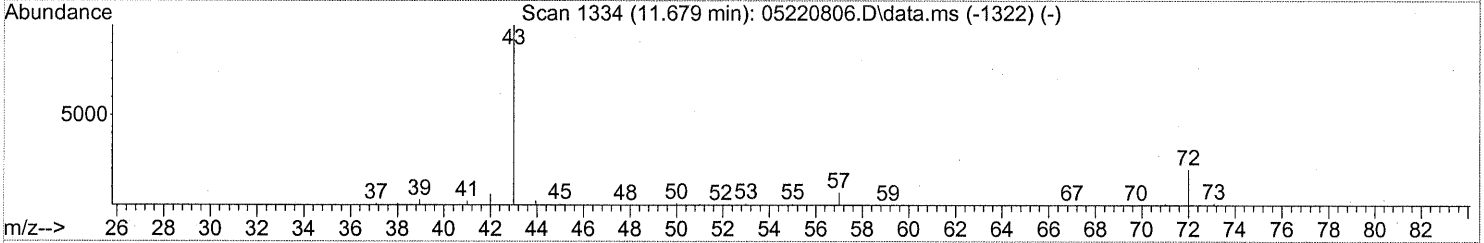
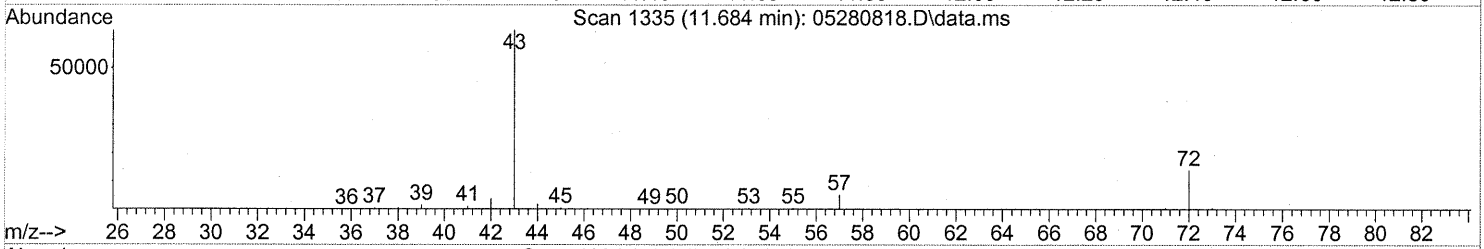
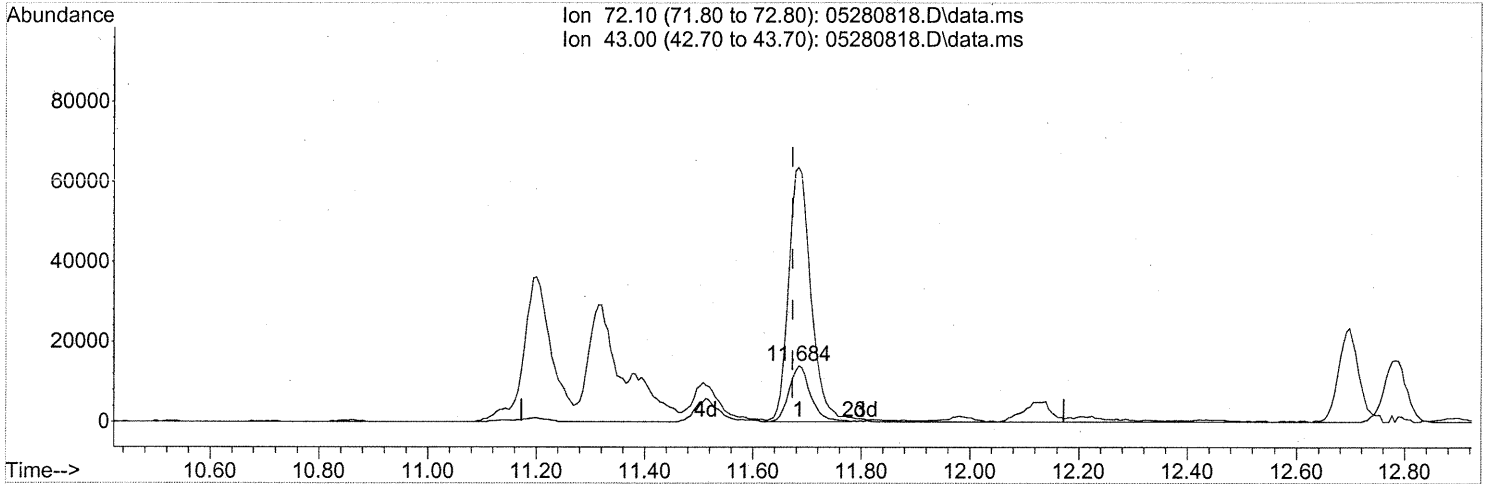
int. % tailing
PA 5/31/08
F 06/04/08

1327

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(27) 2-Butanone (T)

11.684min (+0.011) 3.21ng

response 38325

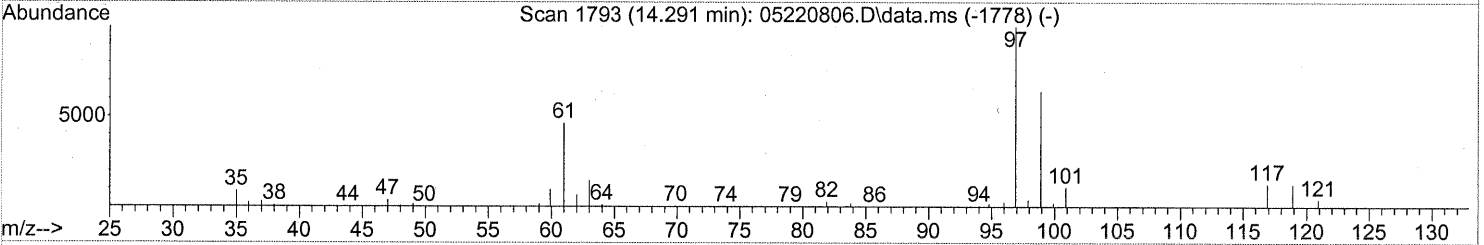
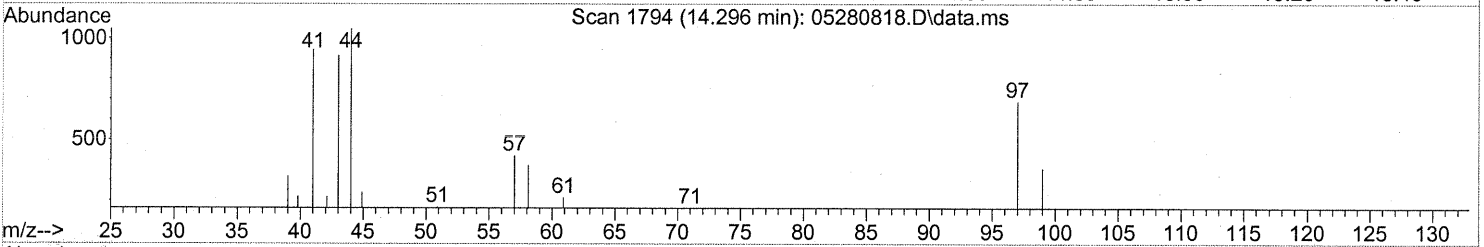
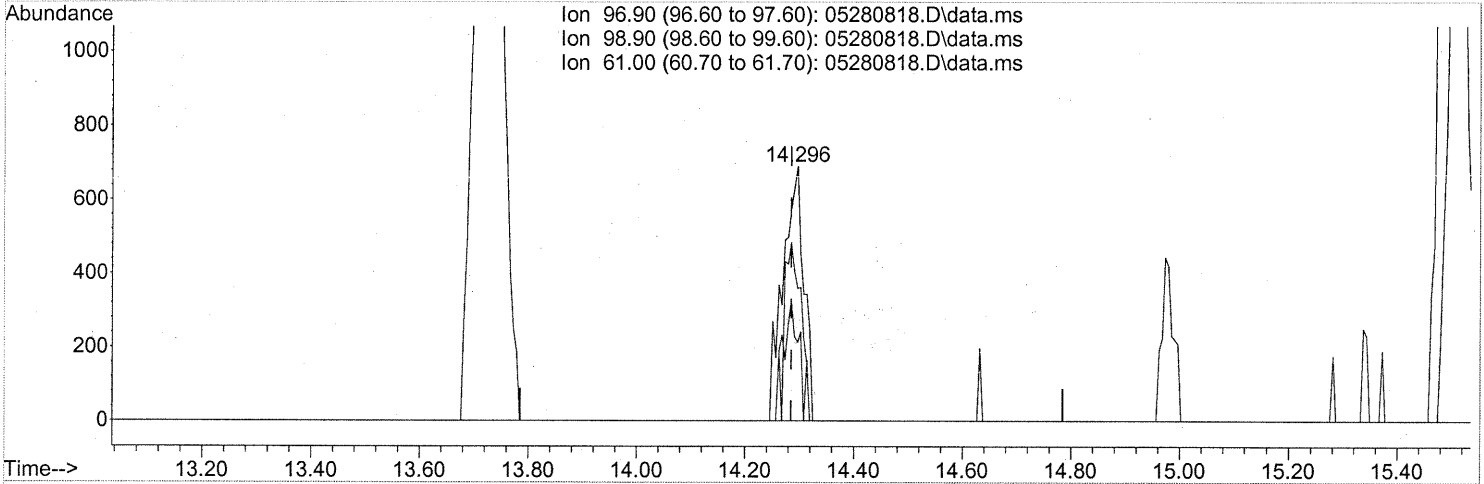
| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 473.81# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1328

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(38) 1,1,1-Trichloroethane (T)

14.296min (+0.011) 0.06ng

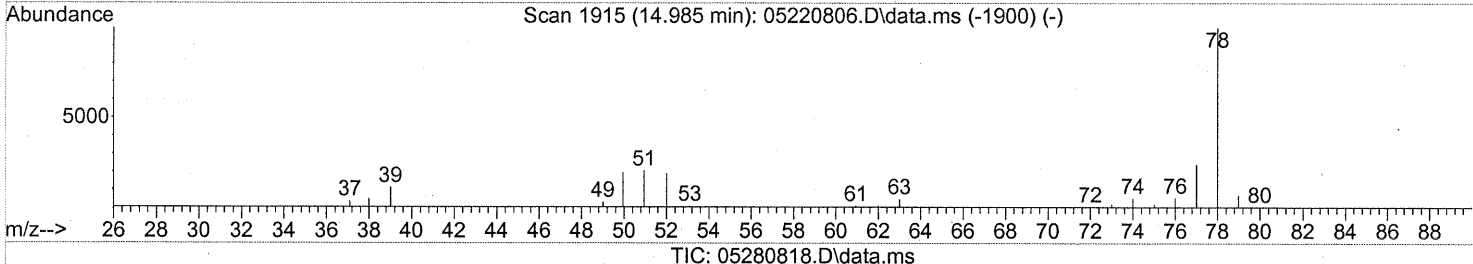
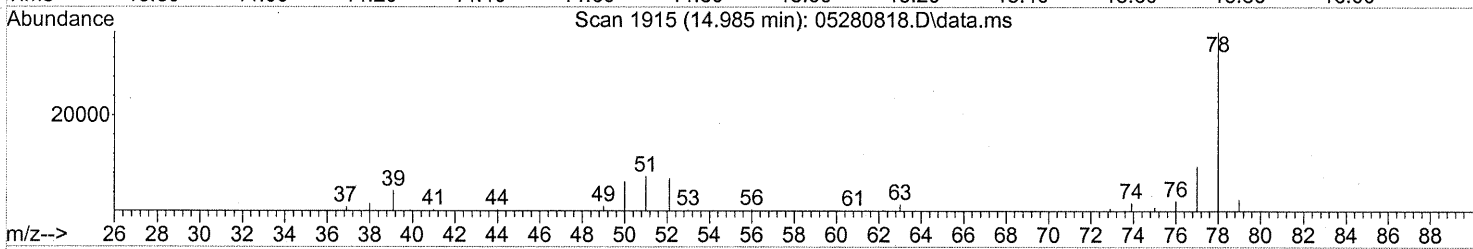
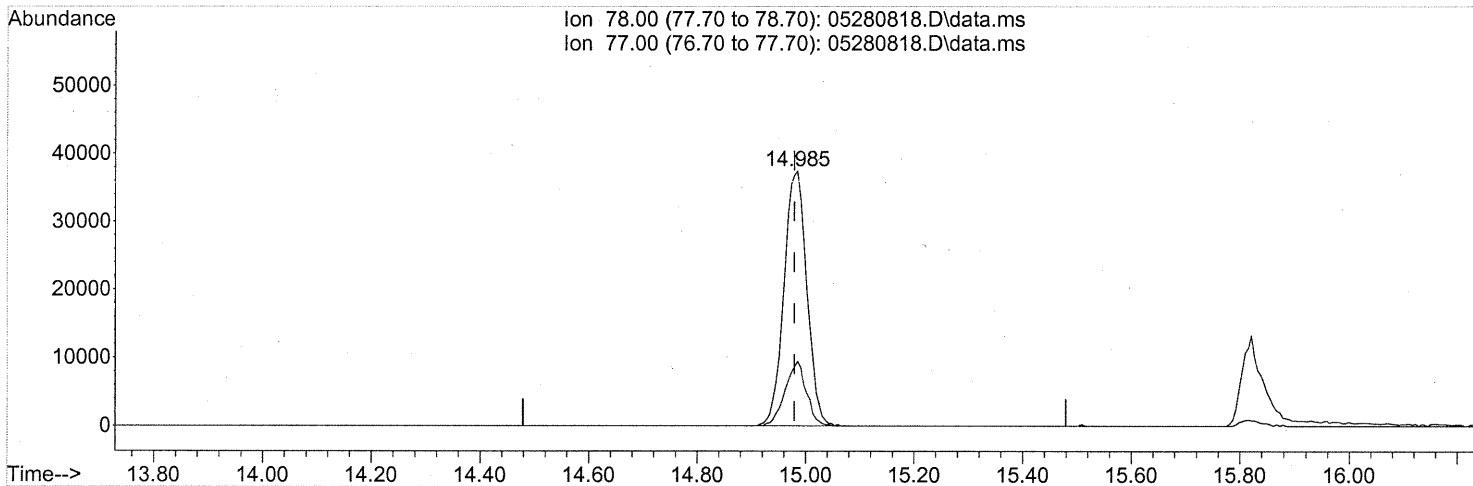
response 1834

| Ion | Exp% | Act% |
|-------|-------|-------|
| 96.90 | 100 | 100 |
| 98.90 | 63.40 | 56.32 |
| 61.00 | 50.50 | 37.57 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 28 May 2008 22:46
Operator : WA
Sample : P0801483-028 (1000ml)
Misc : ENSR SG07B-05D (-3.8, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(41) Benzene (T)

14.985min (+0.006) 1.64ng

response 109228

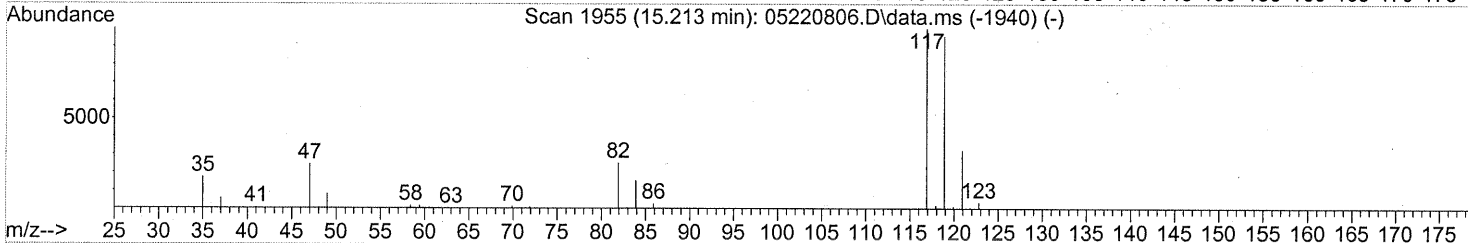
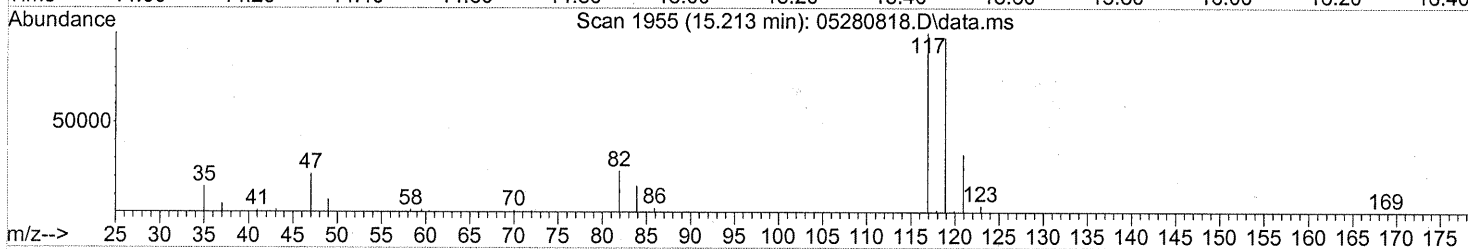
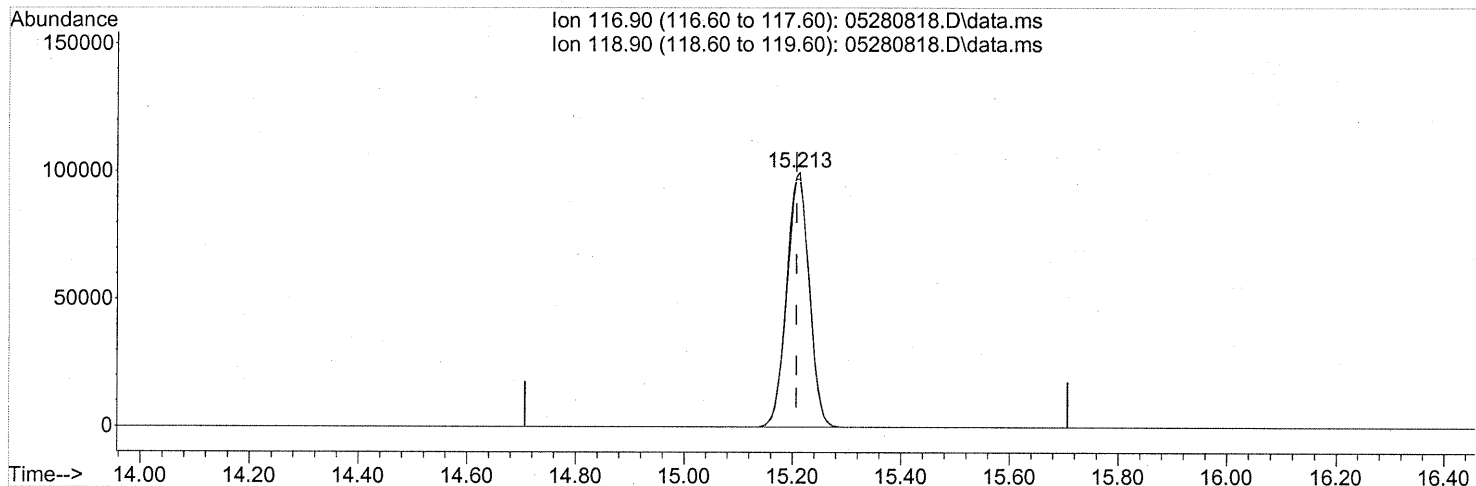
| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 23.29 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1330

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 11.25ng

response 288376

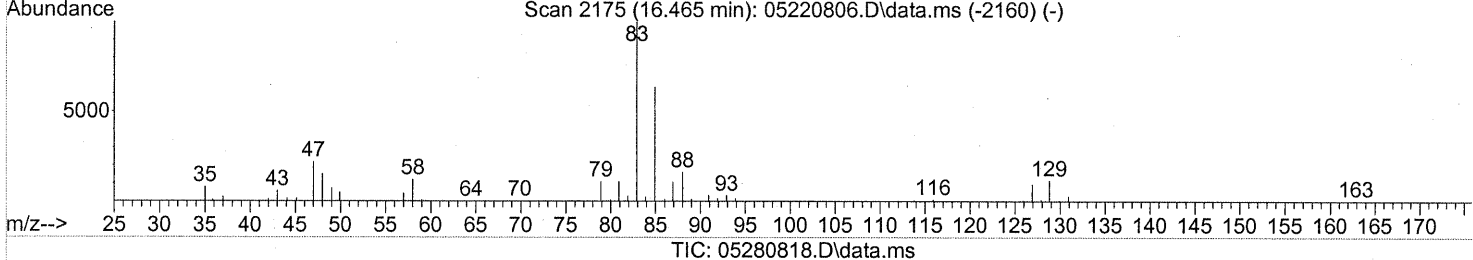
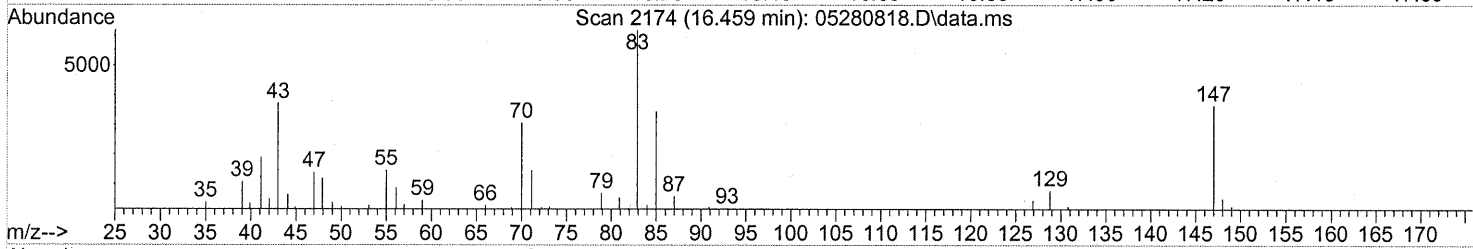
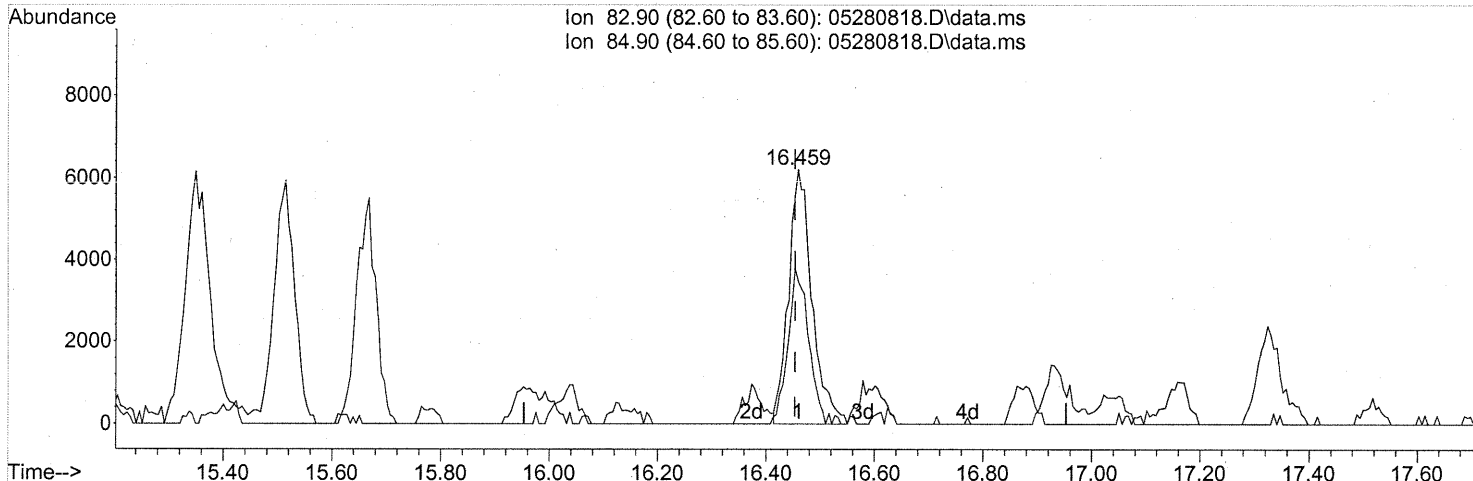
| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 96.46 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1331

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.82ng

response 18507

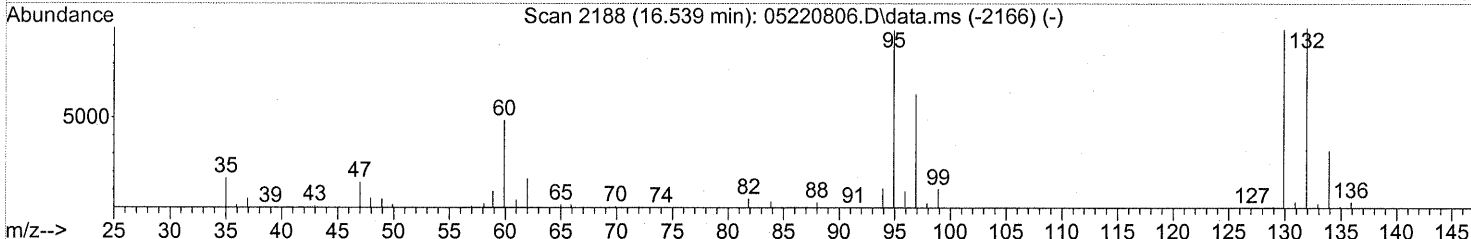
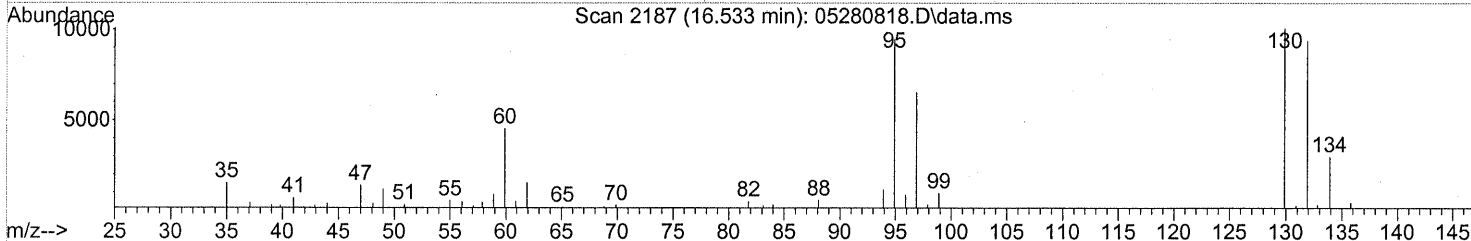
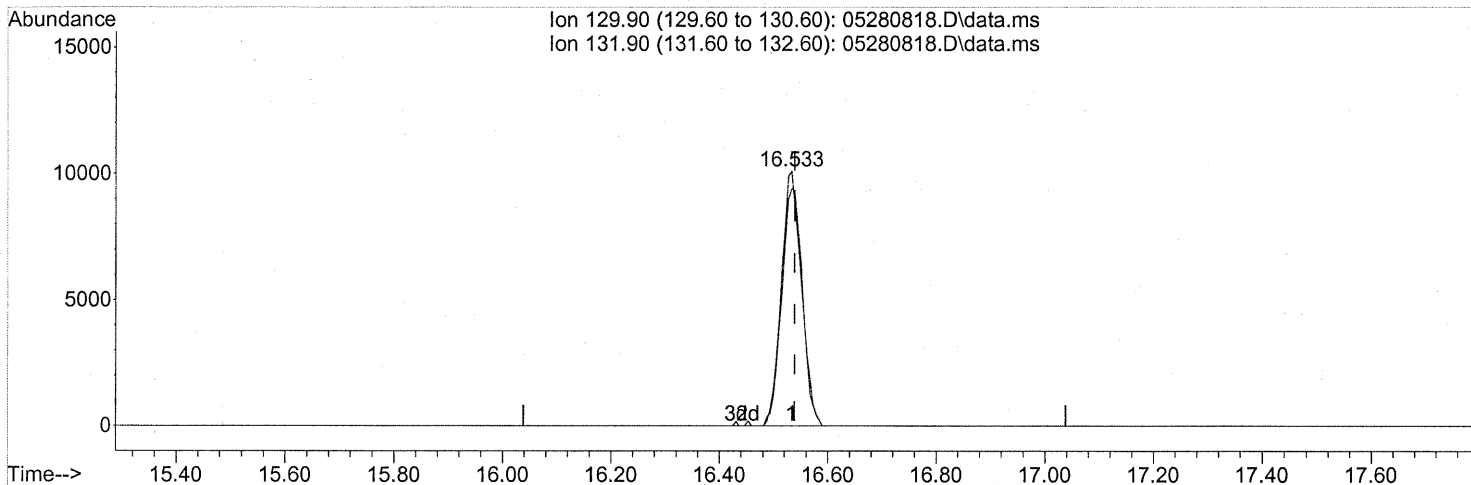
| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 53.47 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1332

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(47) Trichloroethene (T)
 16.533min (-0.006) 1.25ng
 response 25553

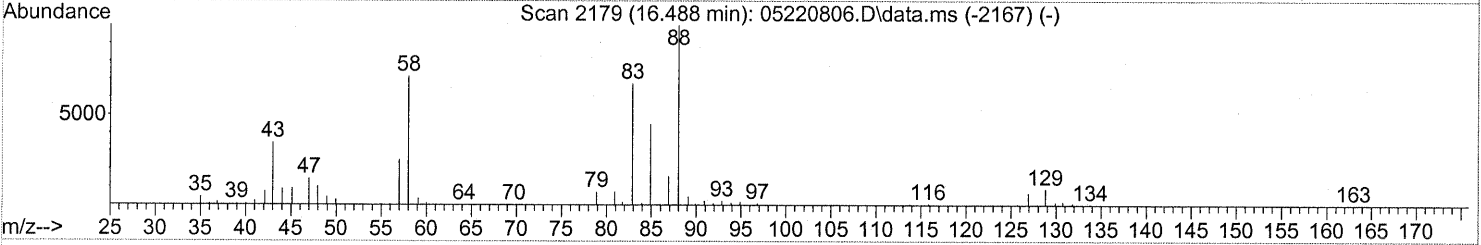
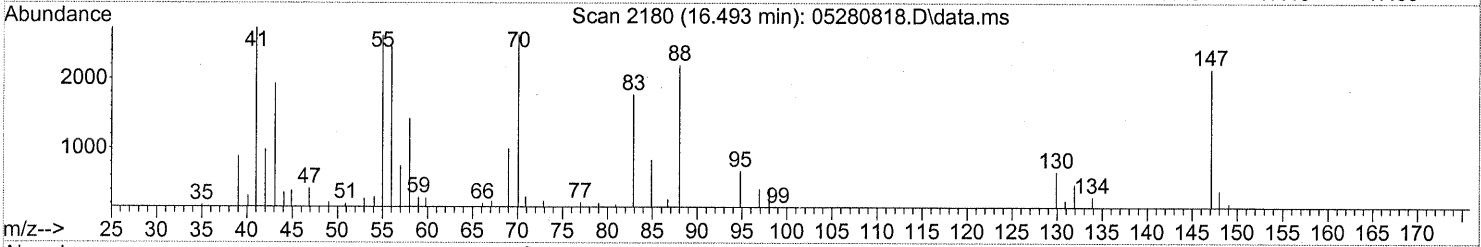
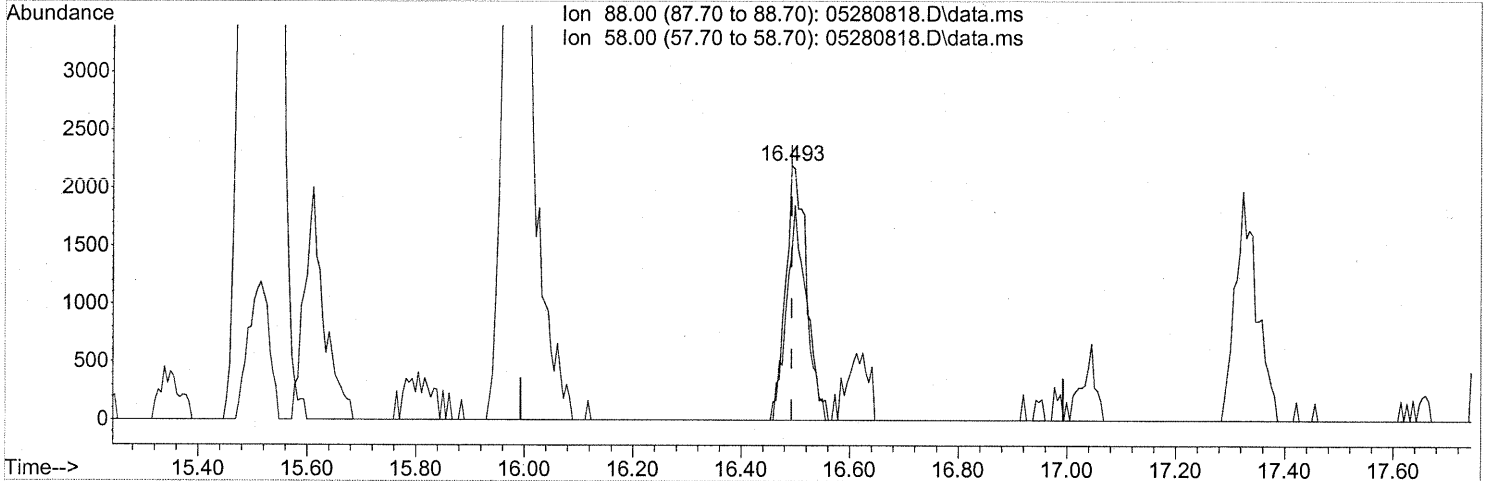
| Ion | Exp% | Act% |
|--------|--------|-------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 97.76 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1333

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

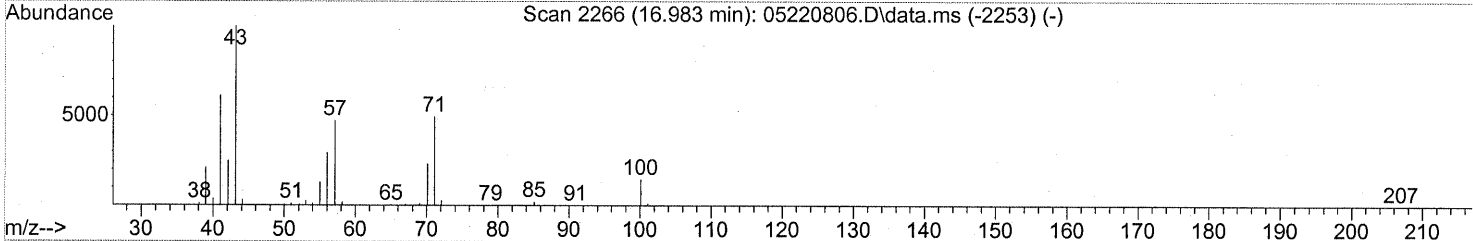
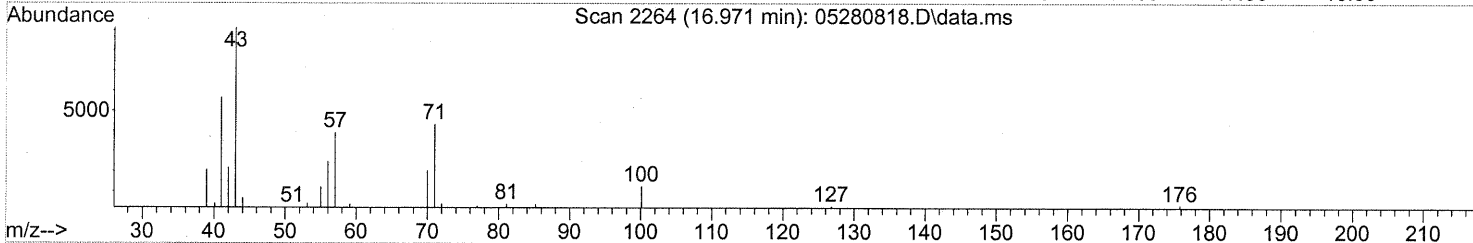
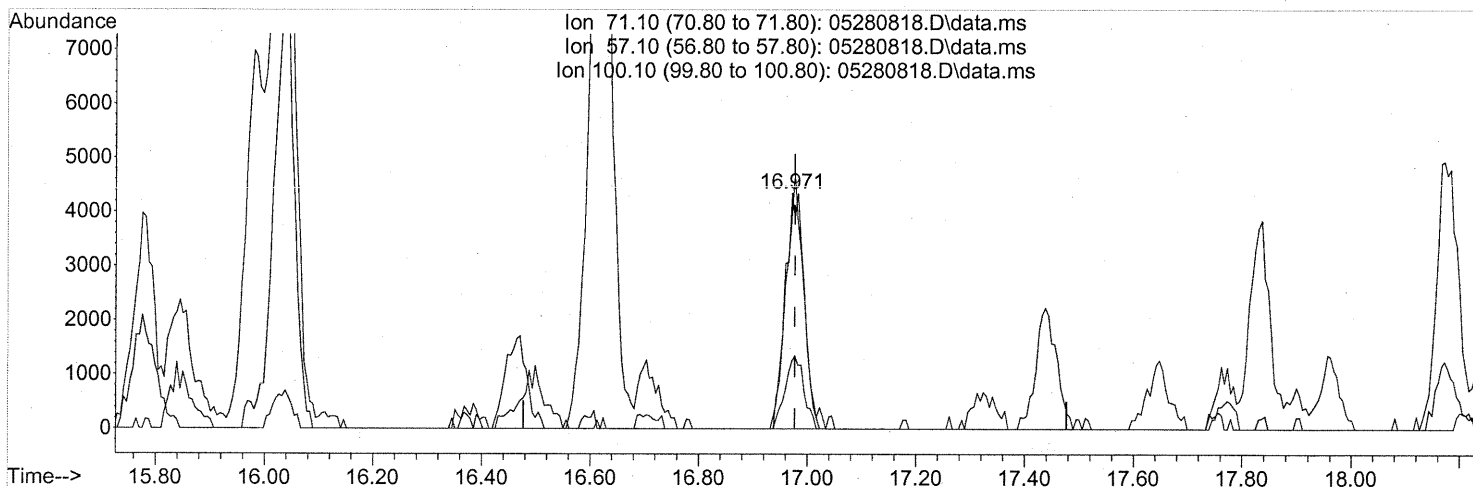
(48) 1,4-Dioxane (T)
 16.493min (-0.000) 0.47ng
 response 5875

| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 78.72 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



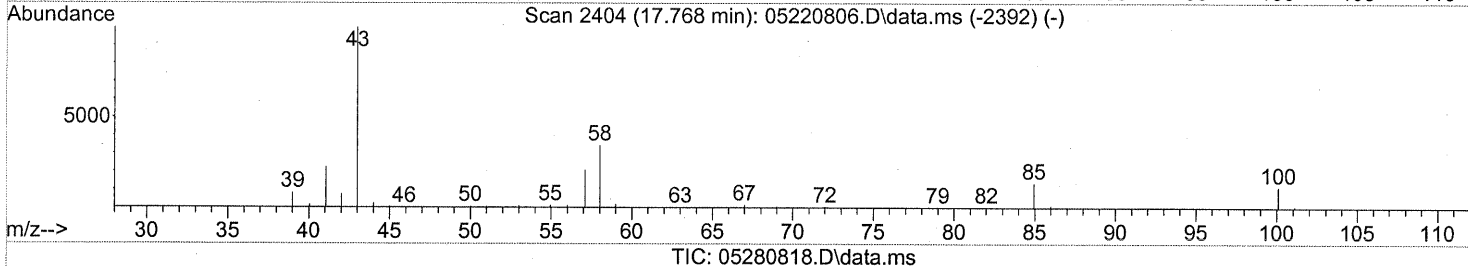
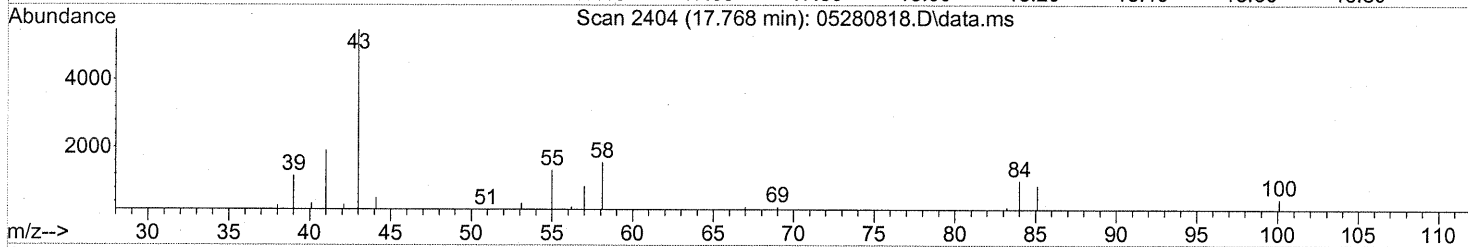
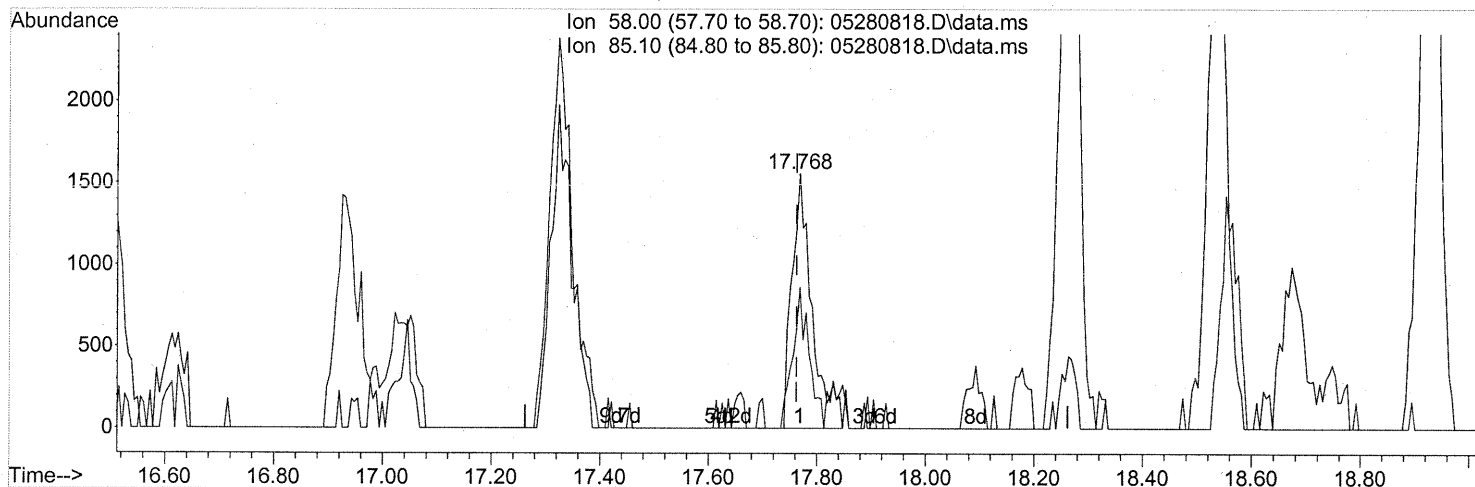
(51) n-Heptane (T)
 16.971min (-0.006) 0.60ng
 response 10593

| Ion | Exp% | Act% |
|--------|--------|--------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 99.48# |
| 100.10 | 30.10 | 30.46 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.768min (+0.006) 0.23ng

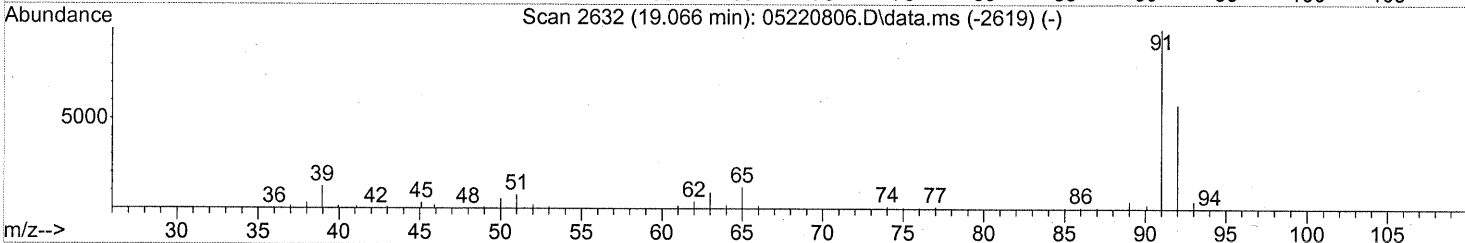
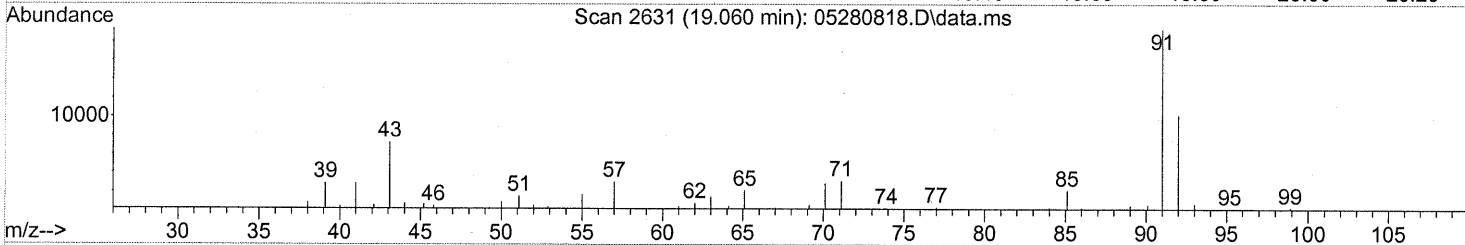
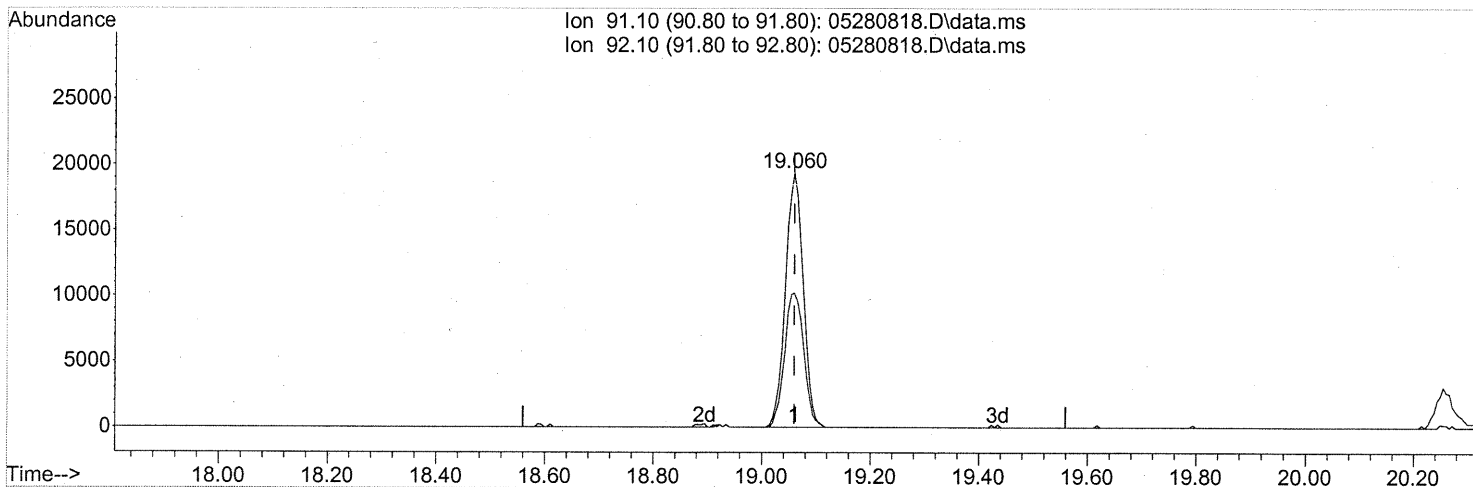
response 3986

| Ion | Exp% | Act% |
|-------|-------|-------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 45.38 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(58) Toluene (T)
 19.060min (-0.000) 0.59ng
 response 43786

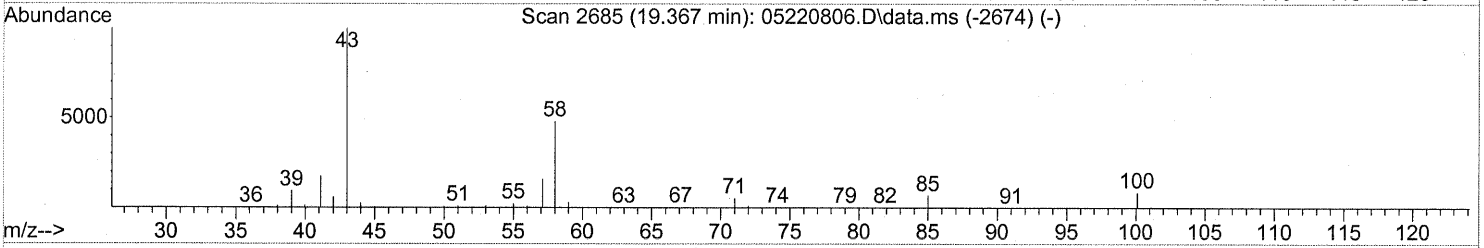
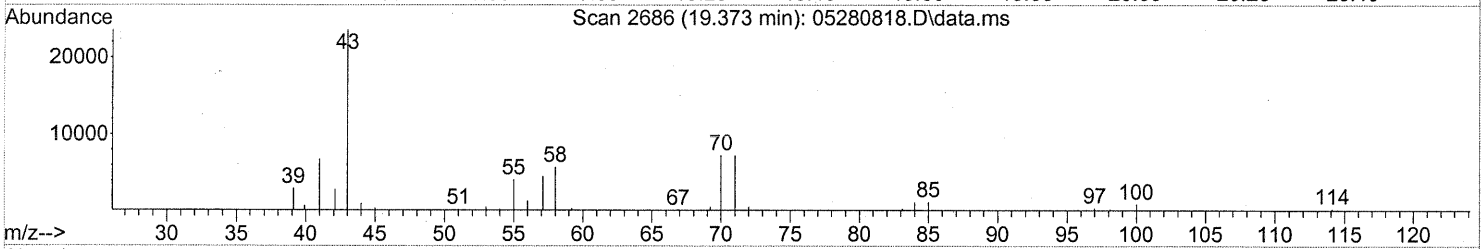
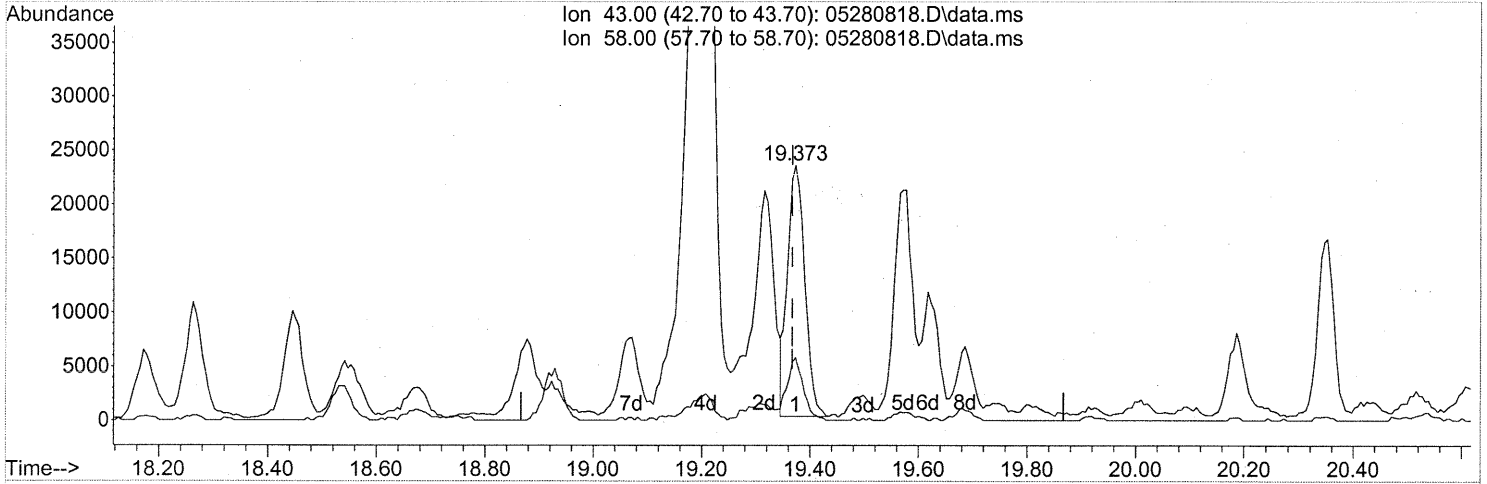
| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 57.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1337

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

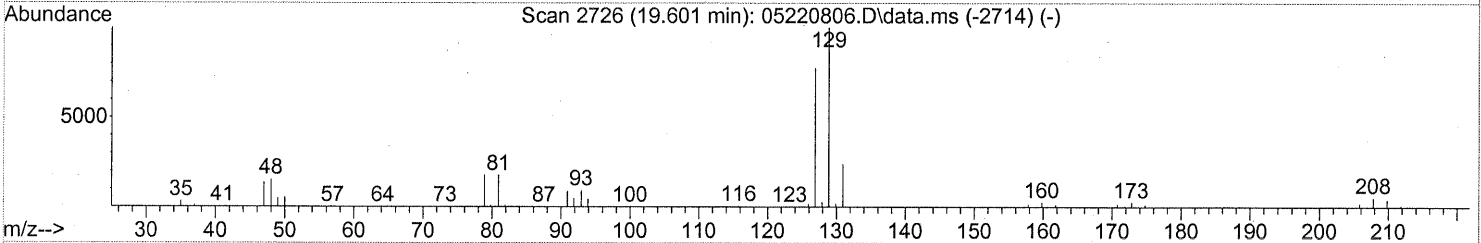
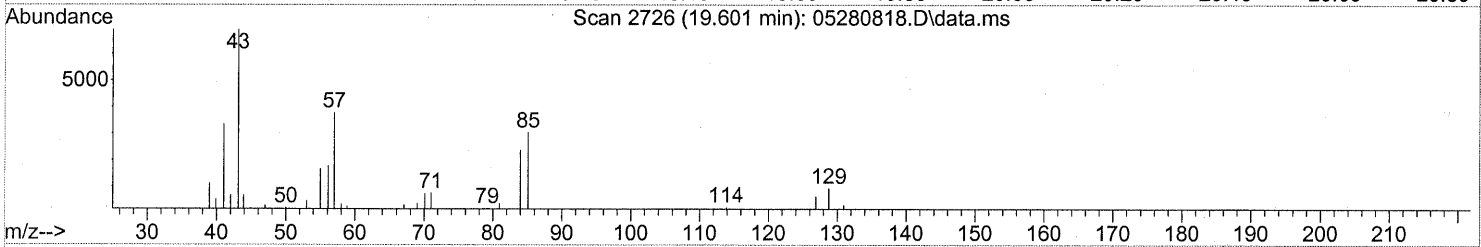
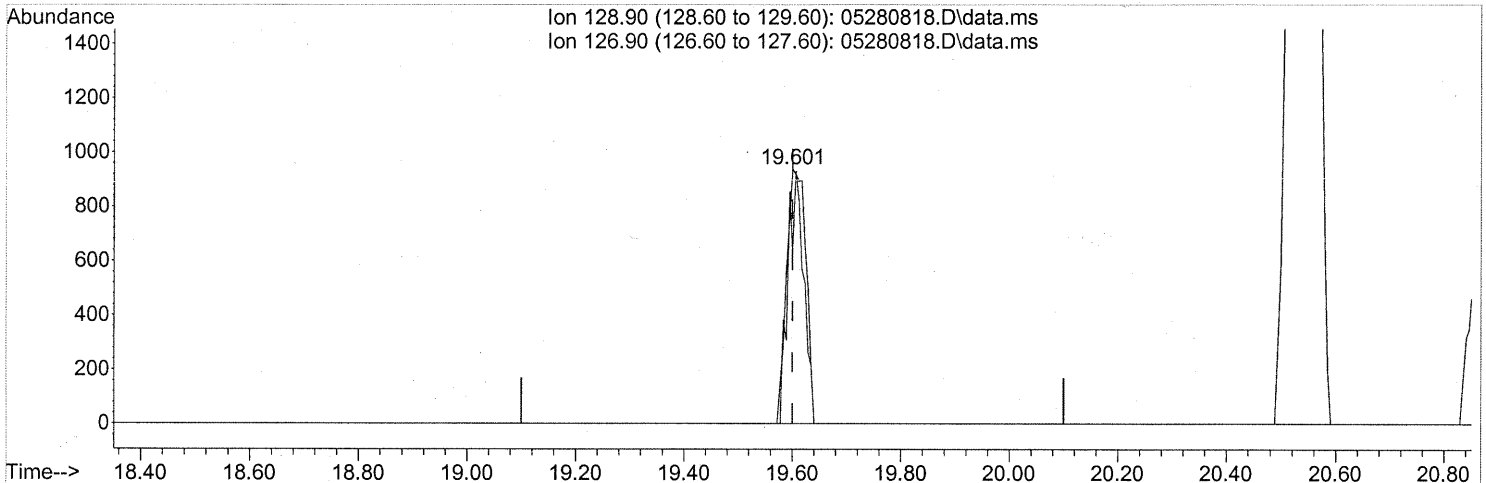
(59) 2-Hexanone (T)
 19.373min (+0.006) 1.01ng
 response 51973

| Ion | Exp% | Act% |
|-------|-------|--------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 23.82# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.601min (-0.000) 0.12ng

response 2316

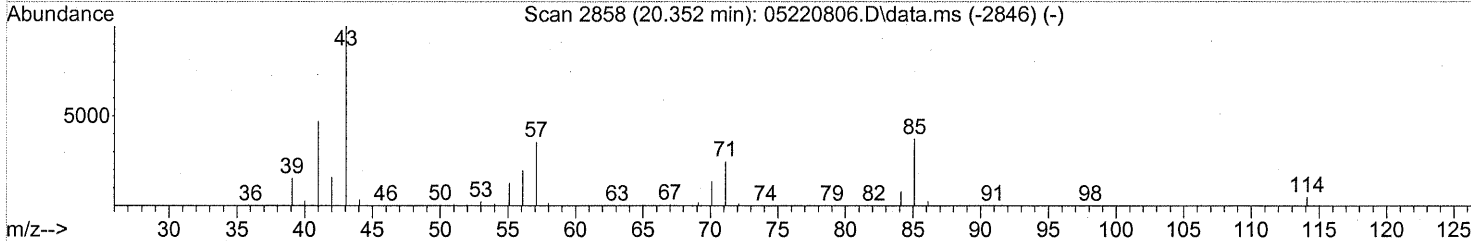
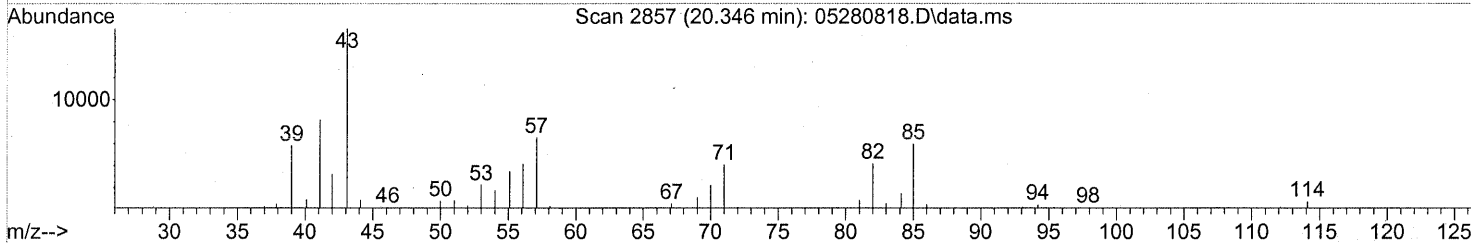
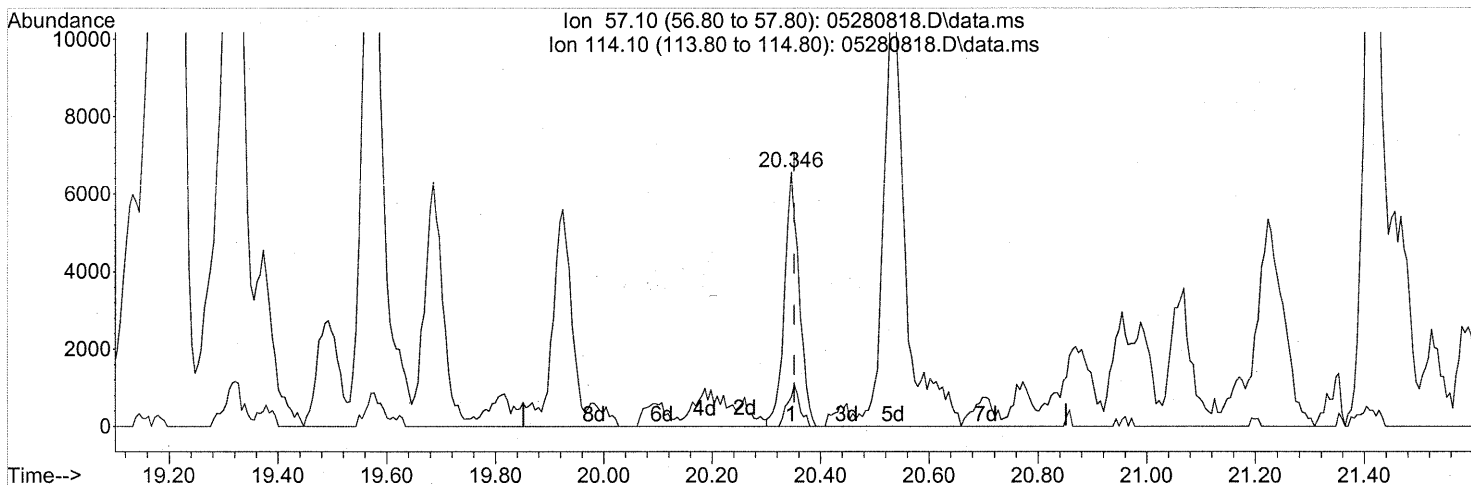
| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.90 | 100 | 100 |
| 126.90 | 76.90 | 80.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1339

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(63) n-Octane (T)

20.346min (-0.006) 0.76ng

response 12449

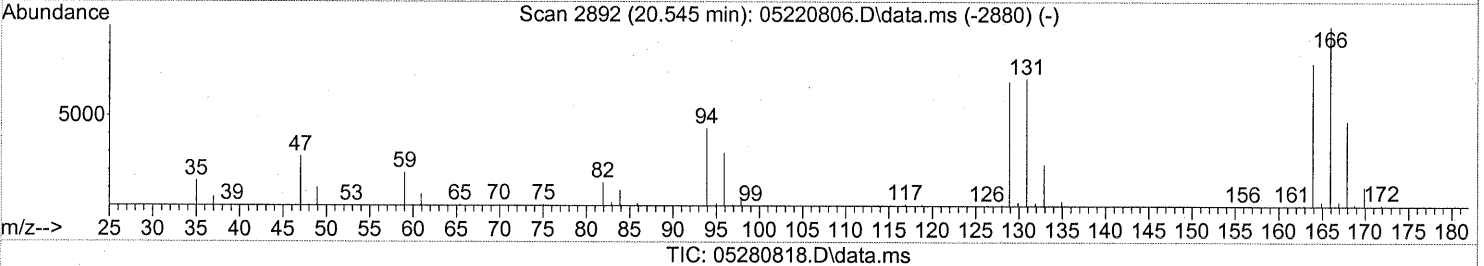
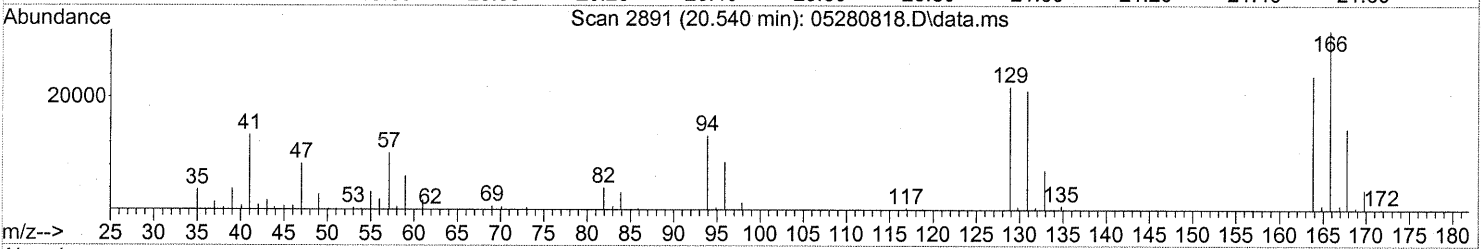
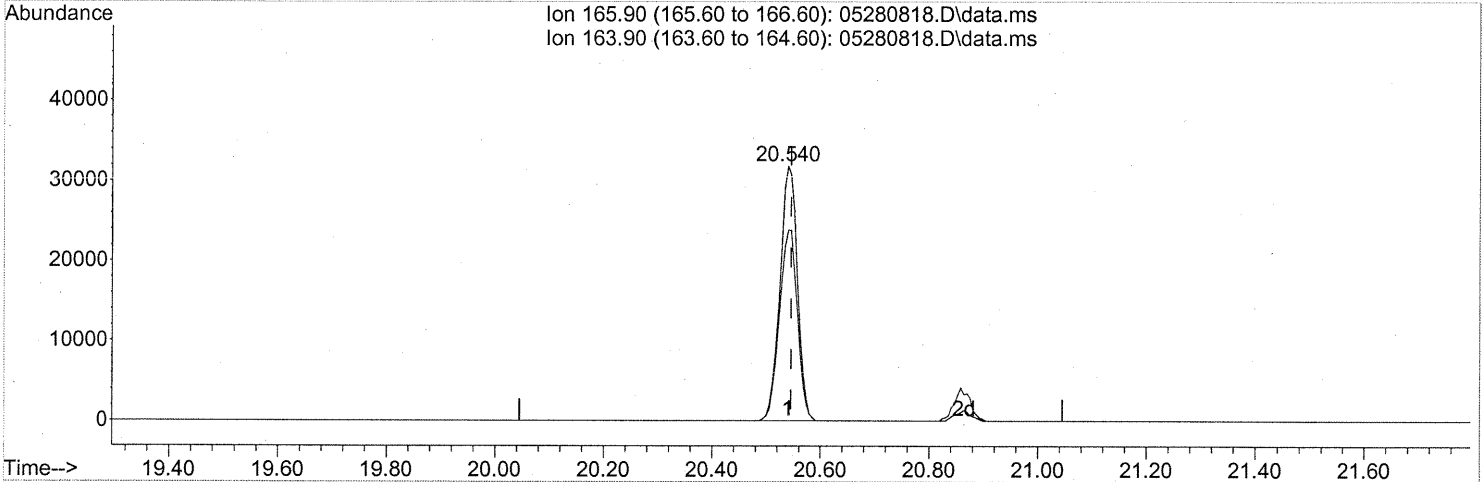
| Ion | Exp% | Act% |
|--------|-------|-------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 13.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1340

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 28 May 2008 22:46
Operator : WA
Sample : P0801483-028 (1000ml)
Misc : ENSR SG07B-05D (-3.8, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 3.20ng

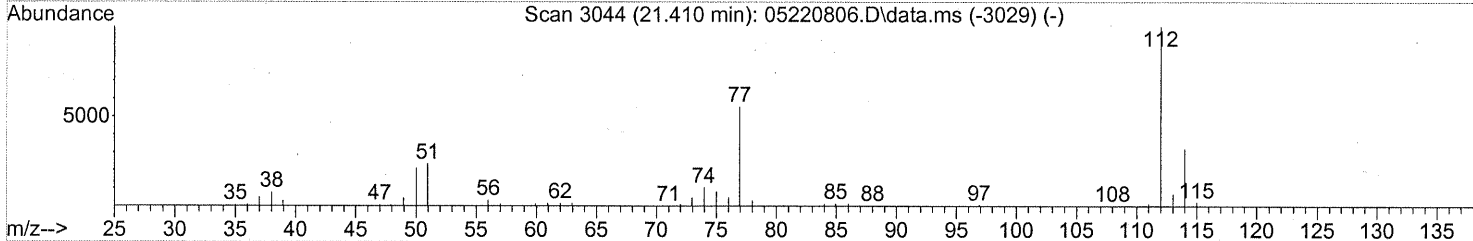
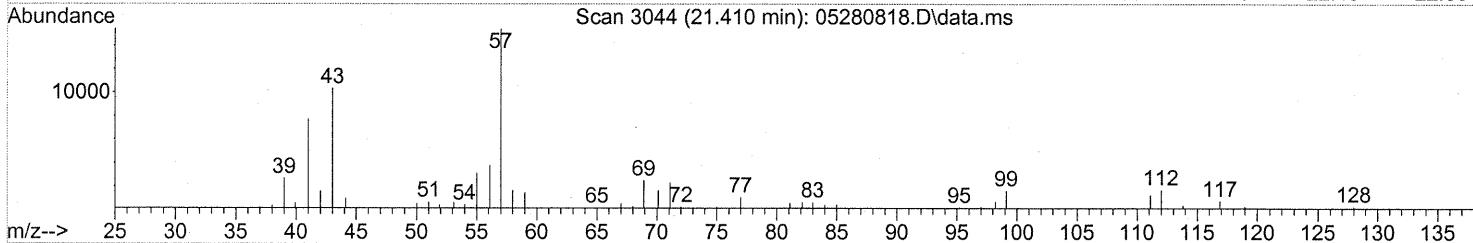
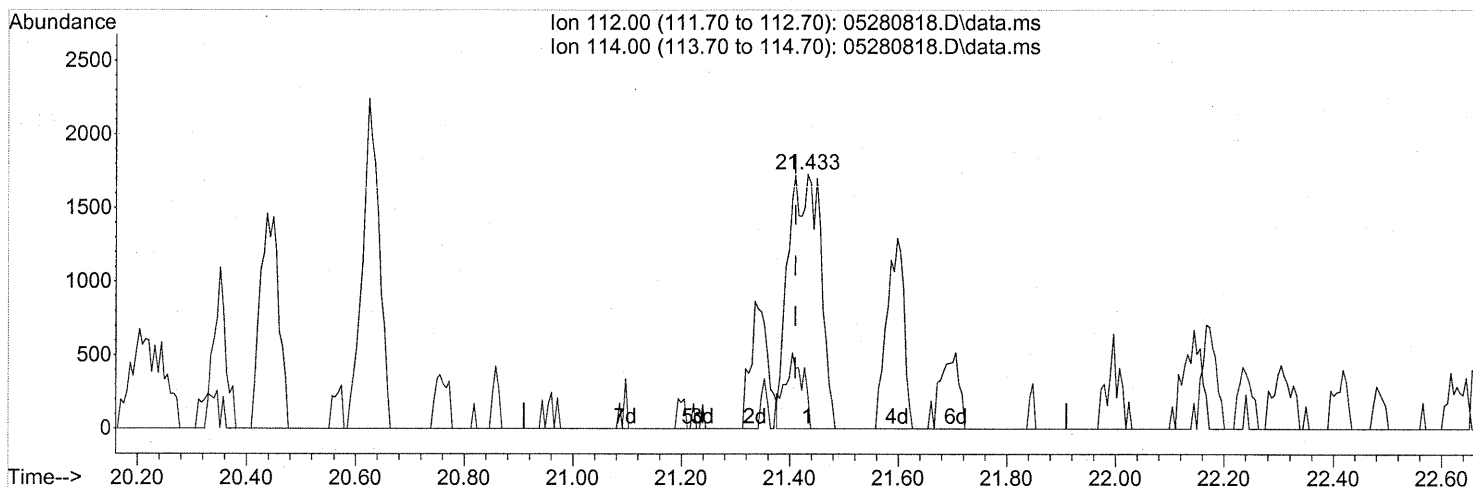
response 70674

| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 77.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(65) Chlorobenzene (T)

21.433min (+0.023) 0.14ng

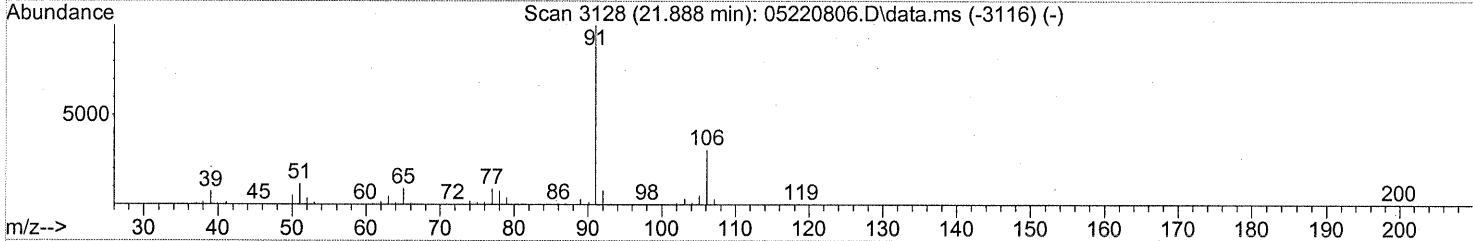
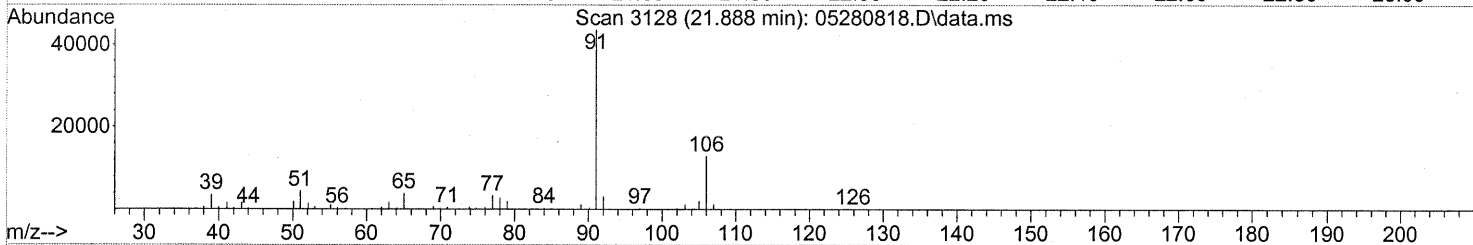
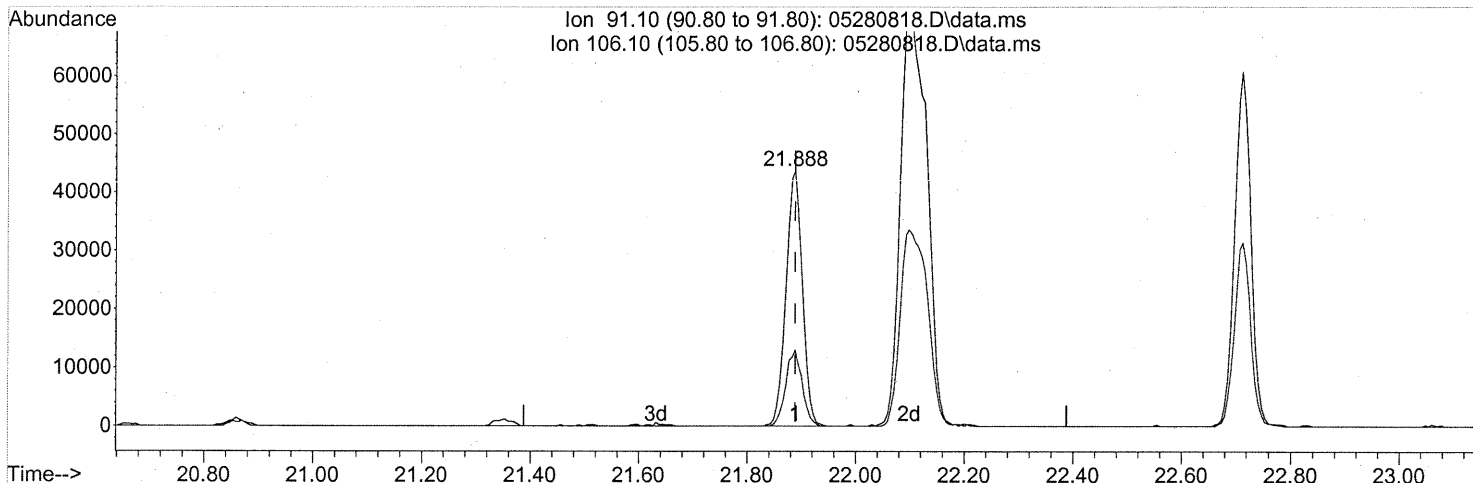
response 7092

| Ion | Exp% | Act% |
|--------|-------|-------|
| 112.00 | 100 | 100 |
| 114.00 | 32.40 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

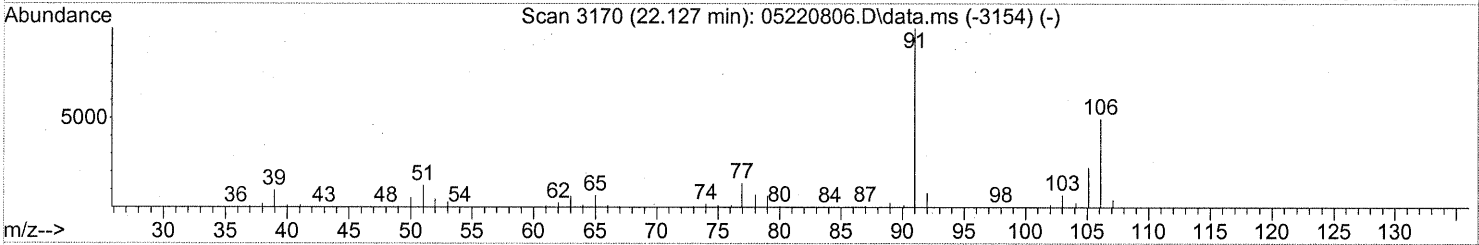
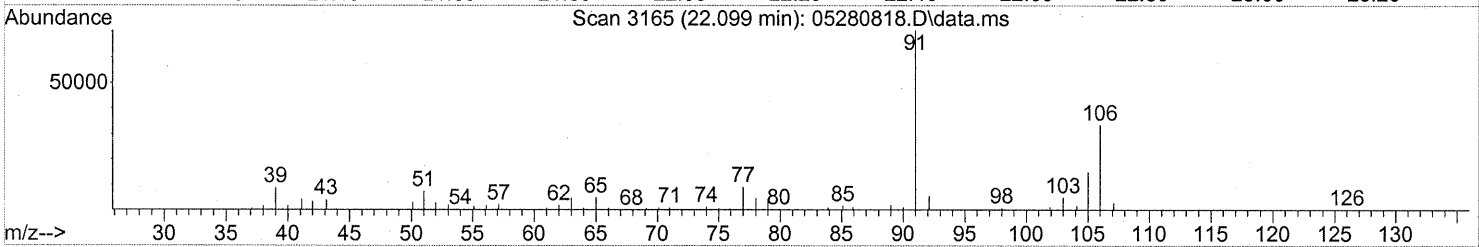
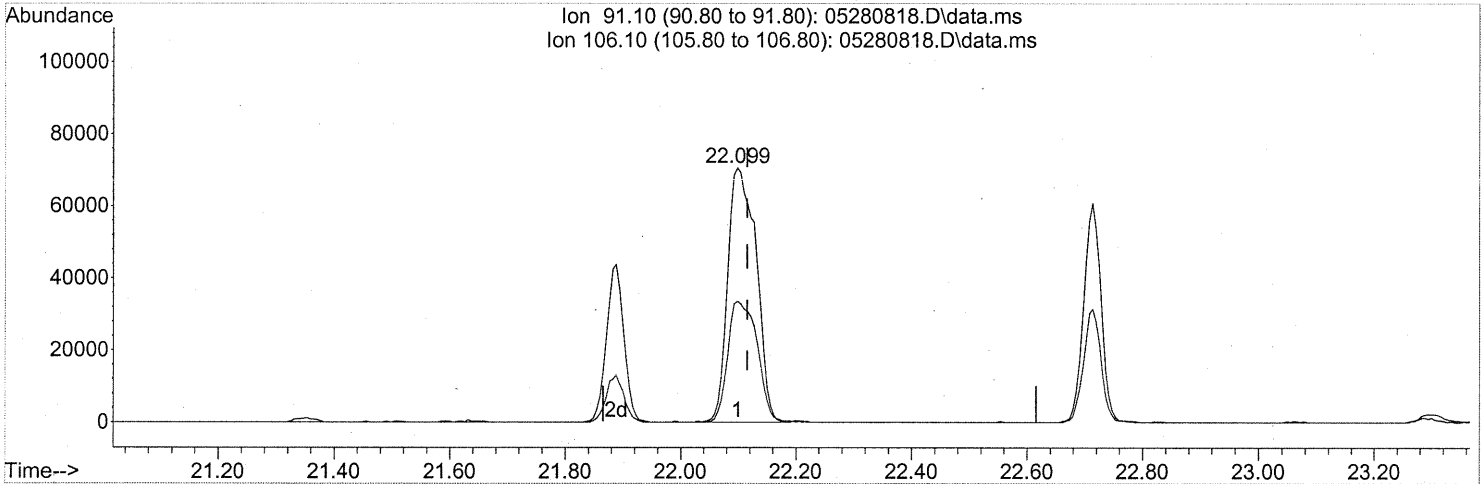
(66) Ethylbenzene (T)
 21.888min (-0.000) 1.07ng
 response 91589

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 34.10 | 29.96 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(67) m- & p-Xylene (T)

22.099min (-0.017) 4.18ng

response 239226

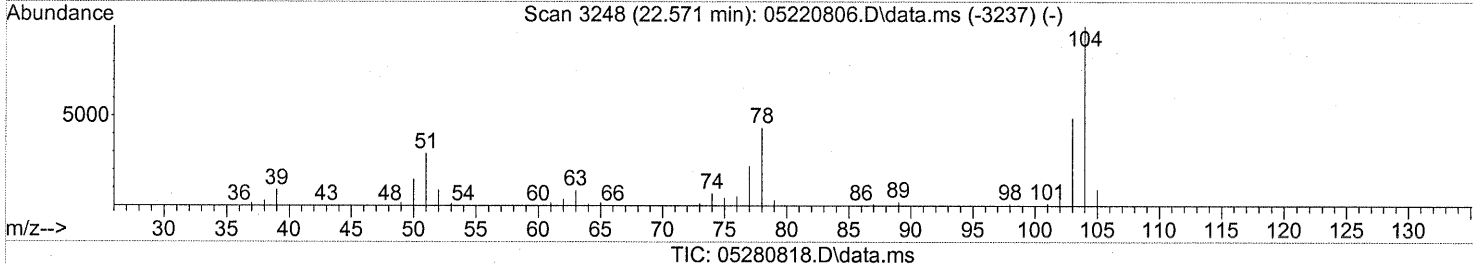
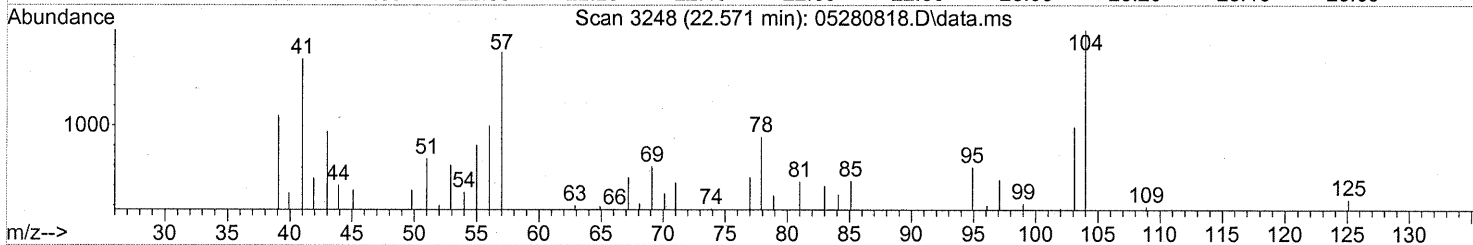
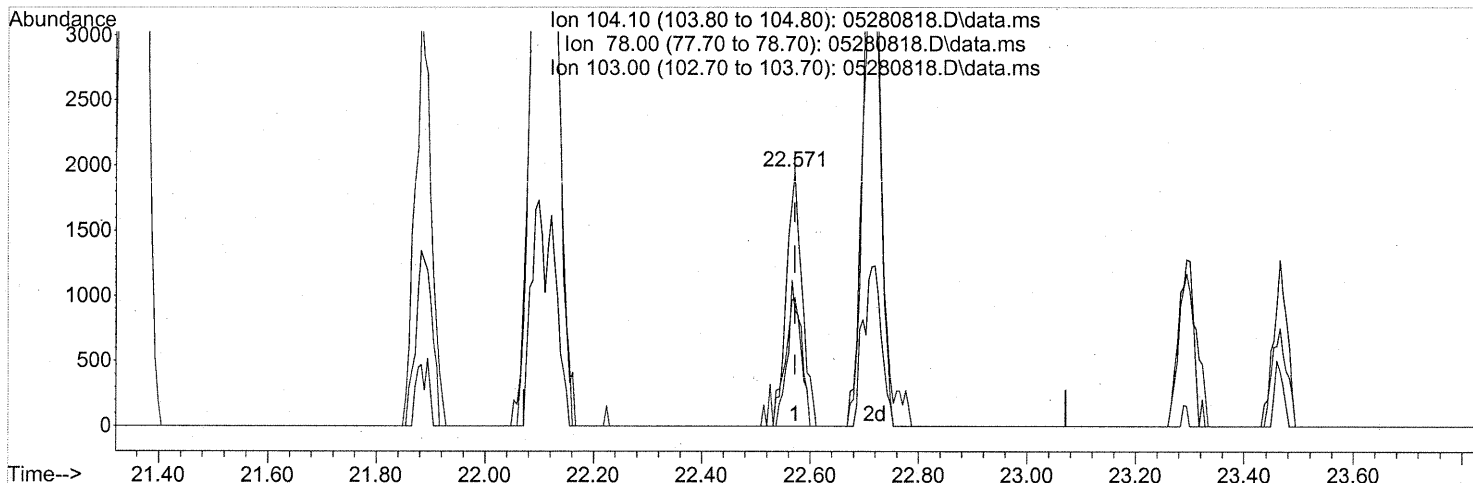
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 48.93 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1344

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(69) Styrene (T)

22.571min (-0.000) 0.08ng

response 3936

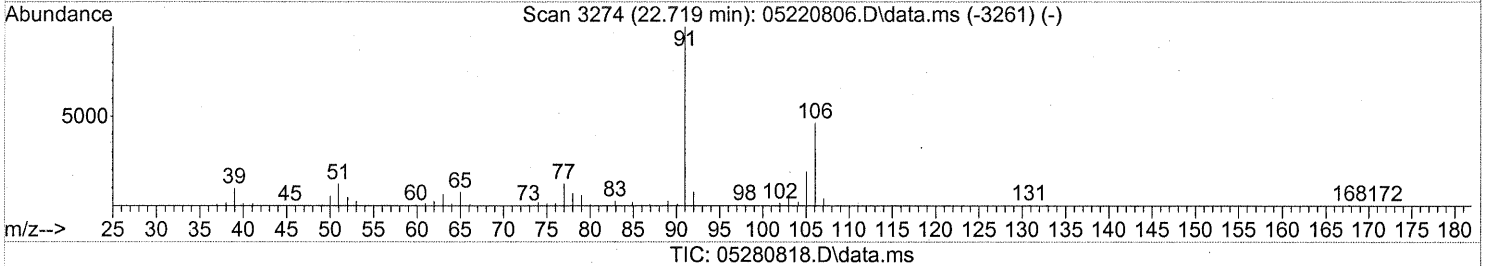
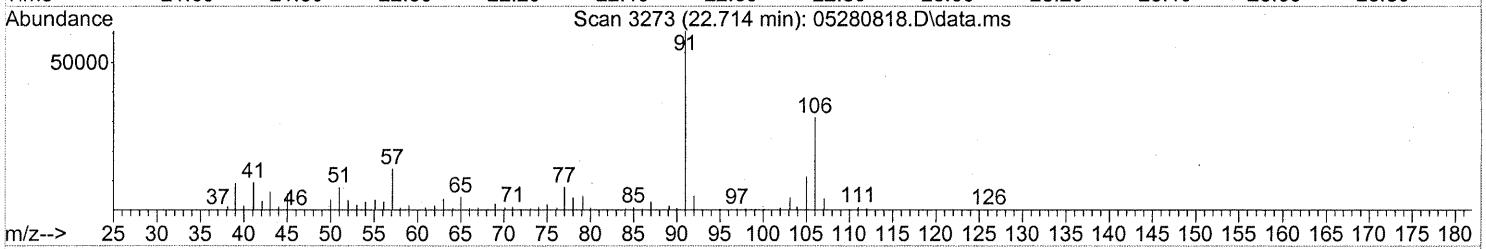
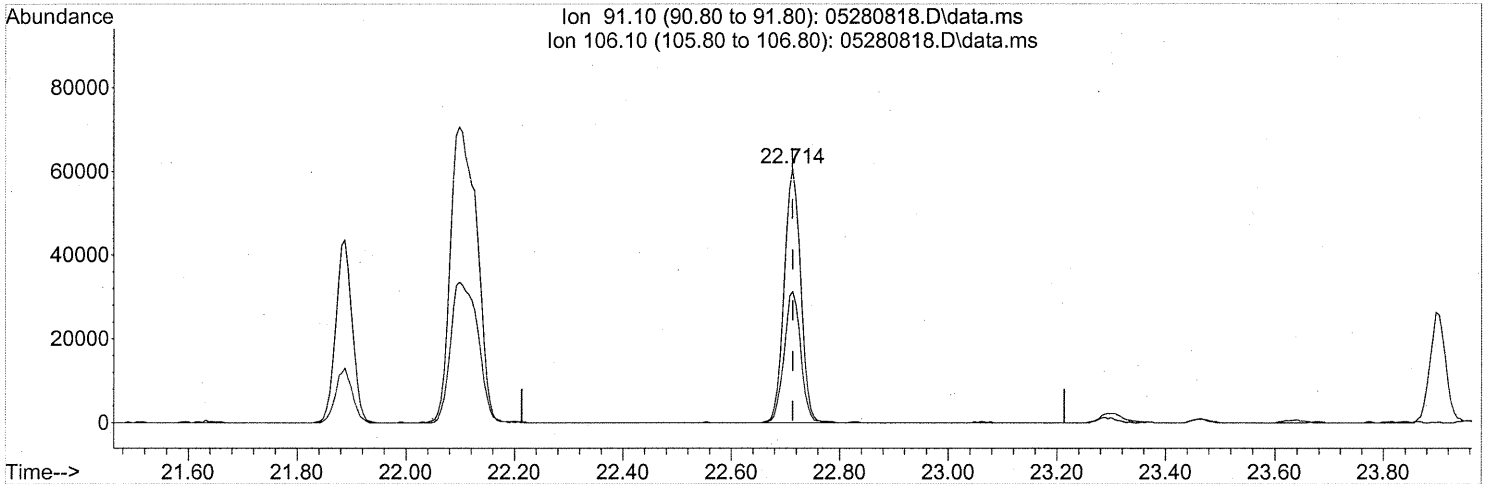
| Ion | Exp% | Act% |
|--------|-------|-------|
| 104.10 | 100 | 100 |
| 78.00 | 39.40 | 47.43 |
| 103.00 | 47.10 | 55.39 |
| 0.00 | 0.00 | 0.00 |

1345

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 2.06ng

response 127306

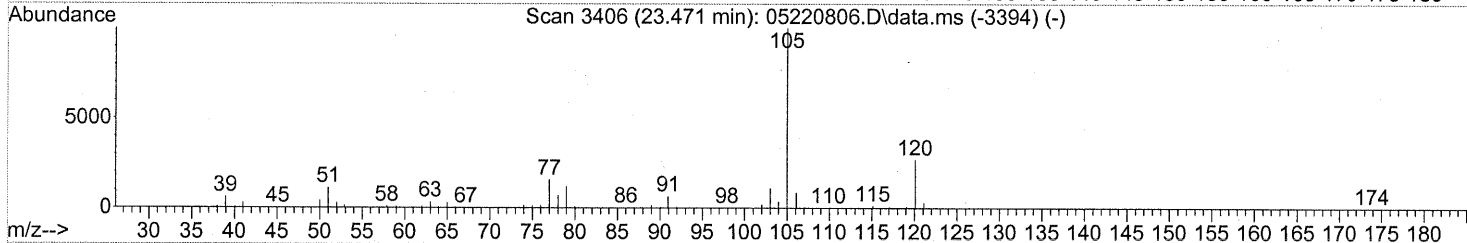
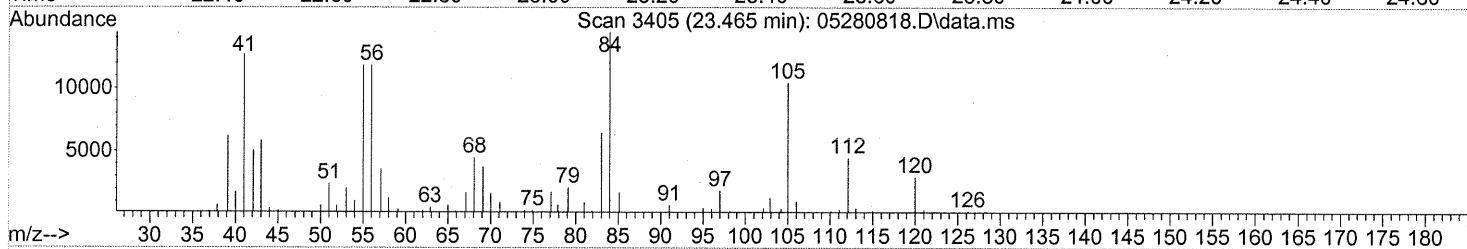
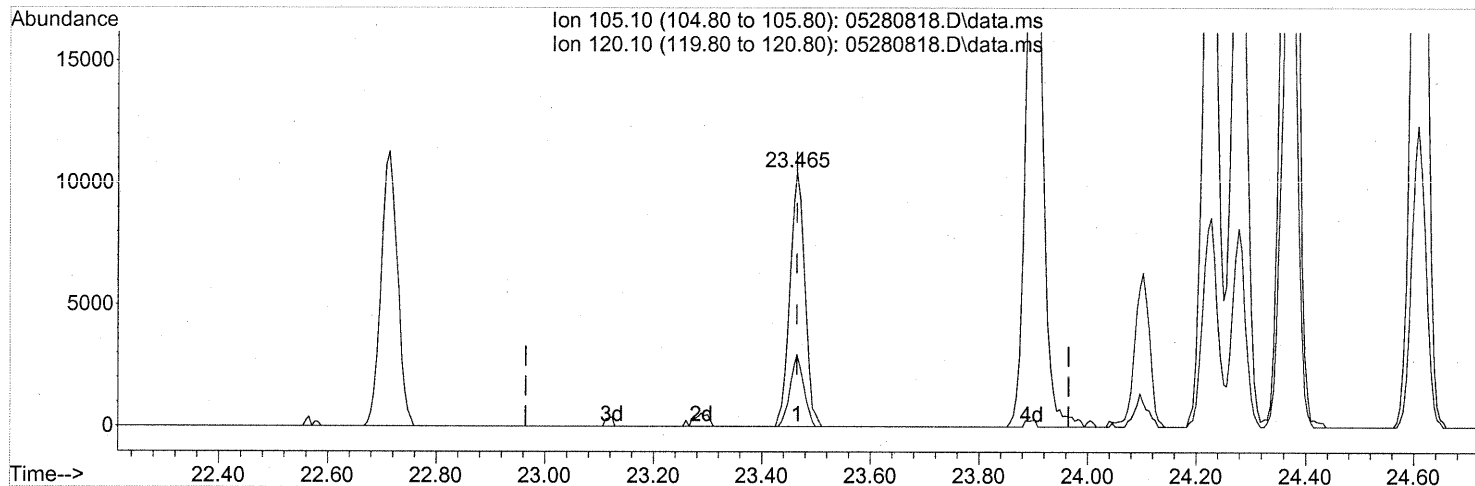
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 51.82 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1346

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

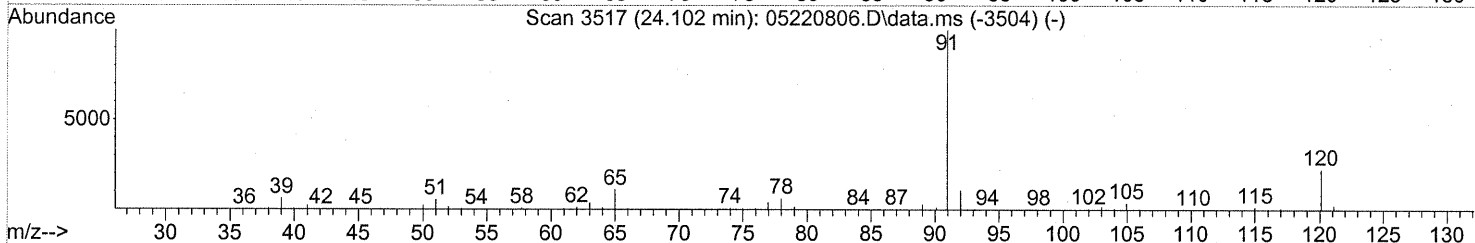
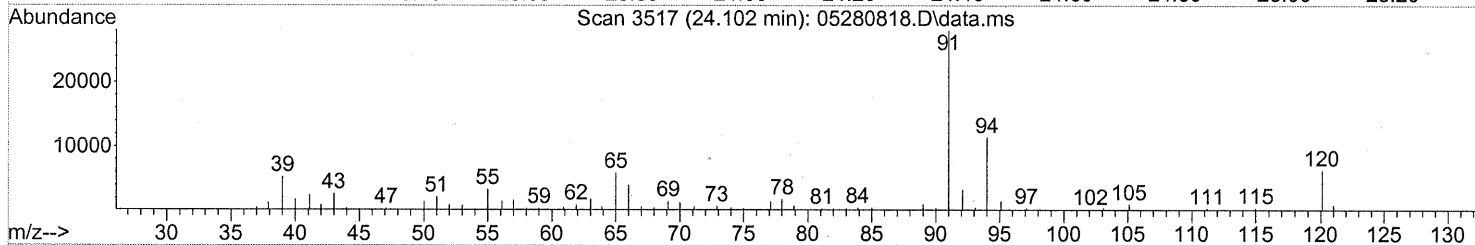
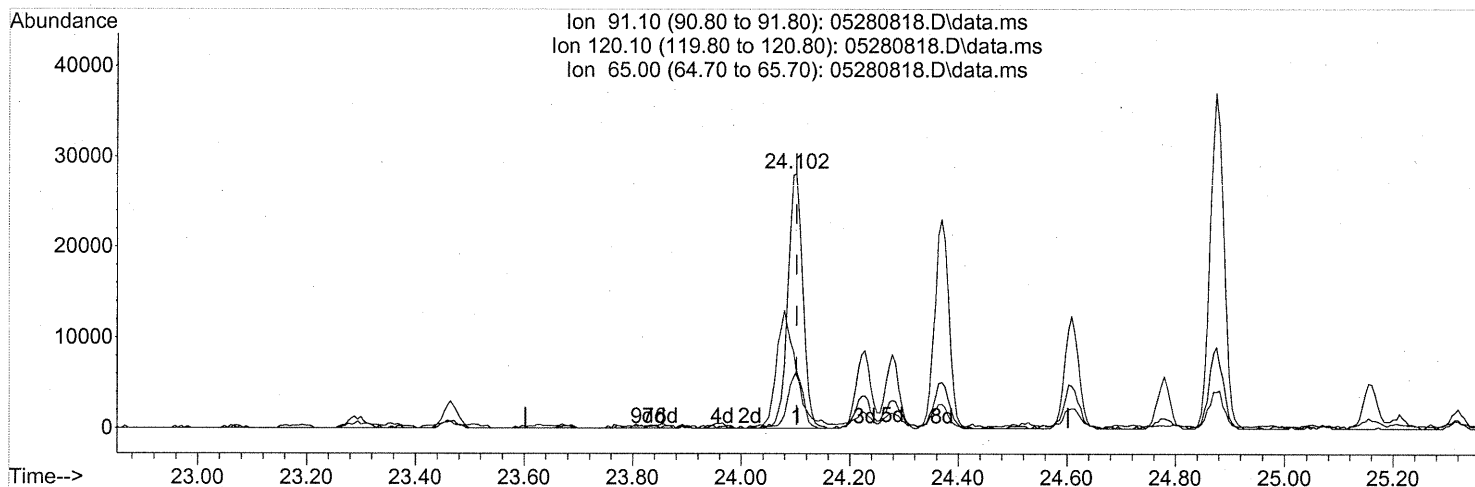
(74) Cumene (T)
 23.465min (-0.000) 0.24ng
 response 20071

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 26.30 | 25.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(76) n-Propylbenzene (T)

24.102min (-0.000) 0.52ng

response 53901

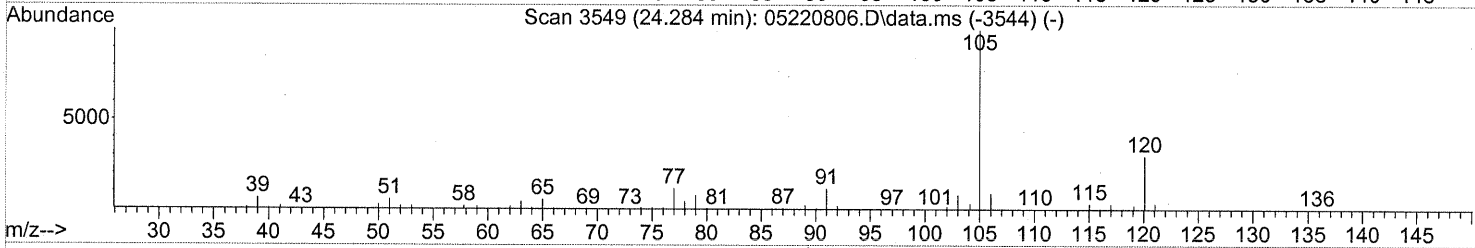
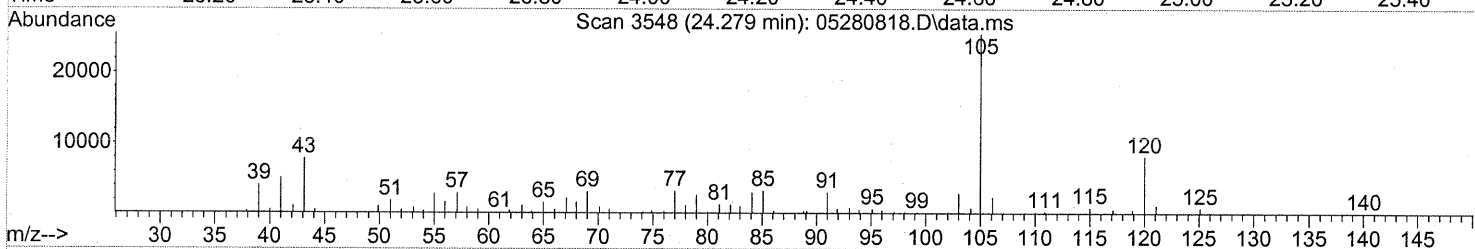
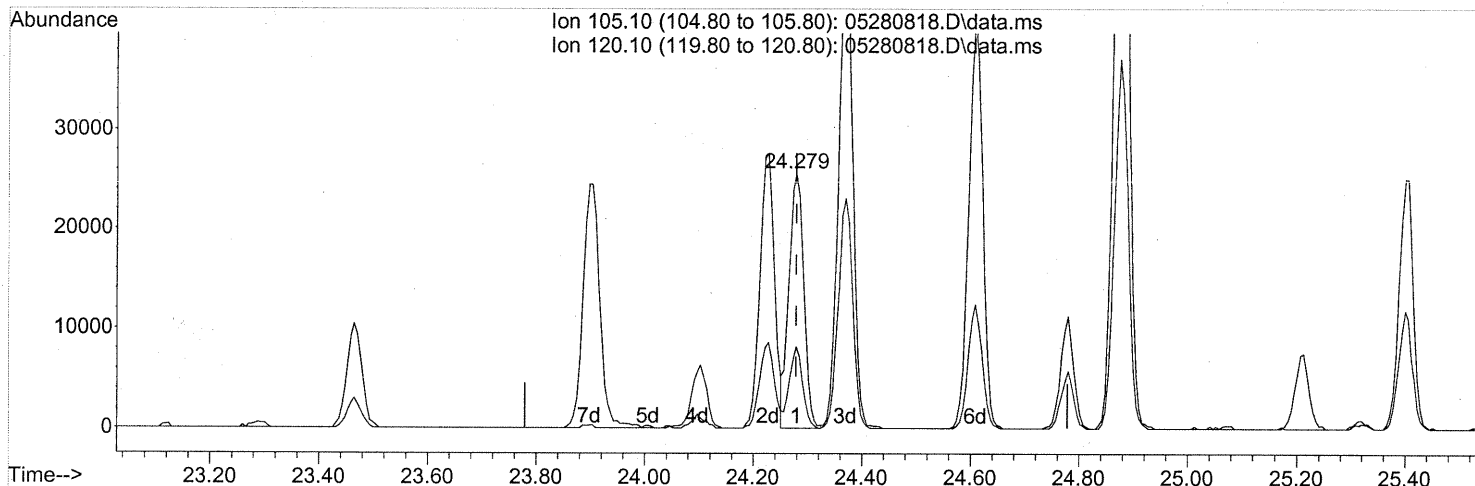
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 22.16 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1348

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



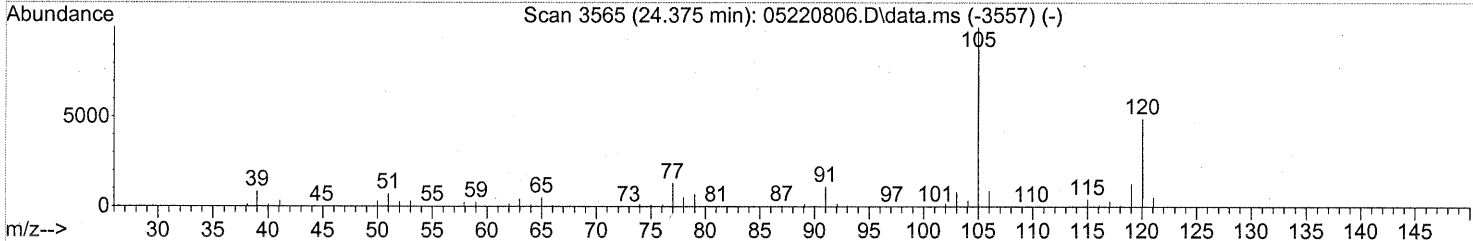
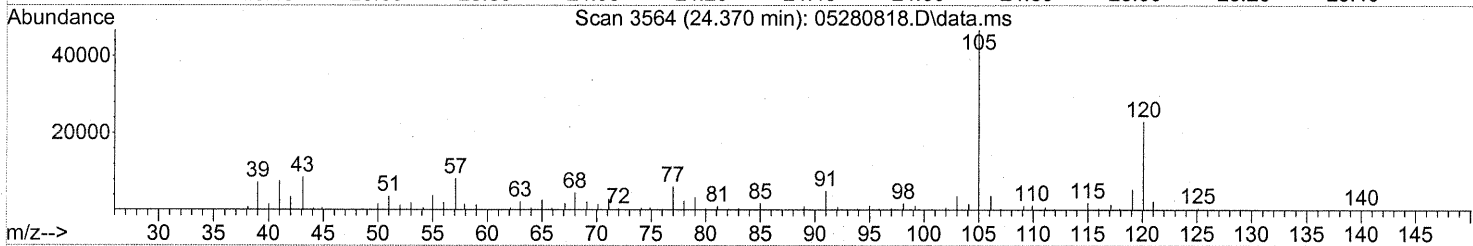
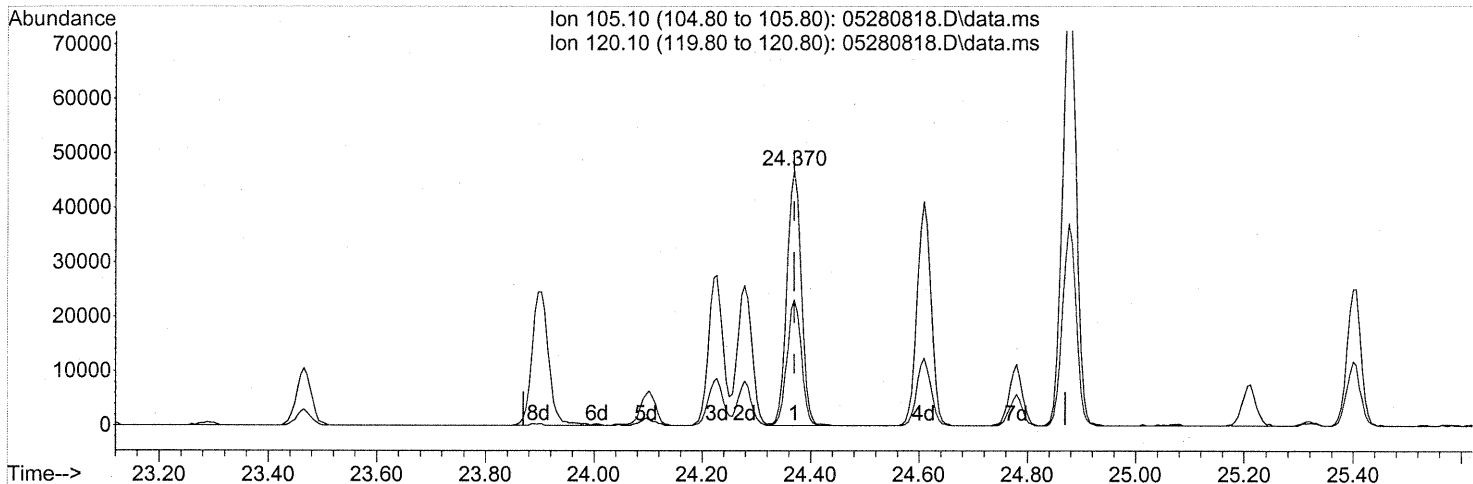
(78) 4-Ethyltoluene (T)
 24.279min (-0.000) 0.59ng
 response 48201

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 27.87 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.370min (-0.000) 1.17ng

response 86058

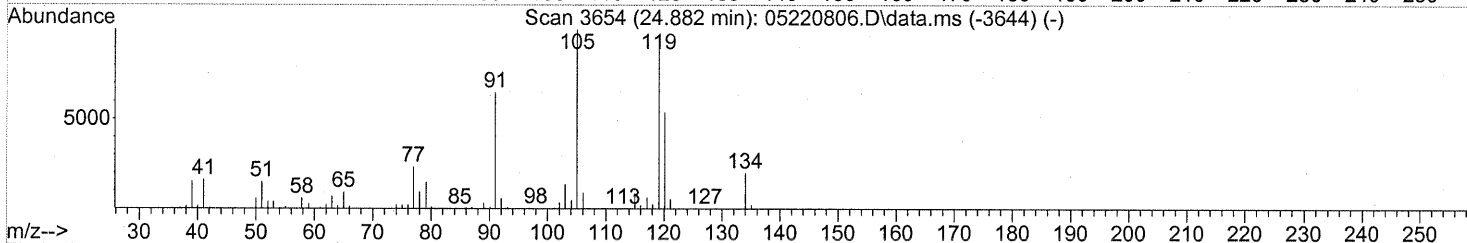
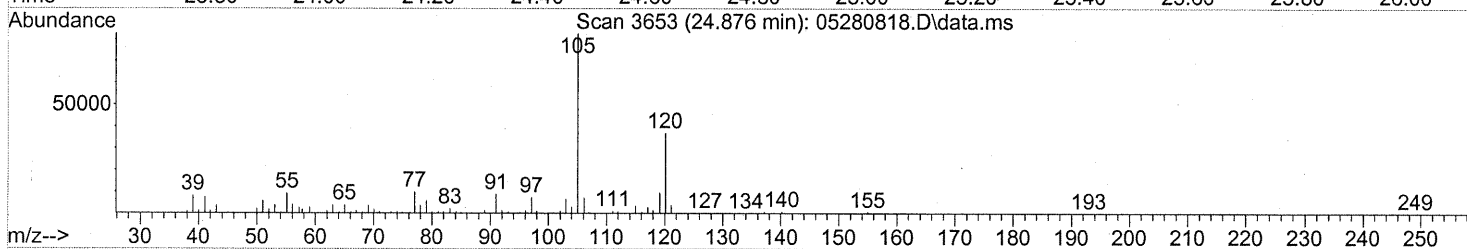
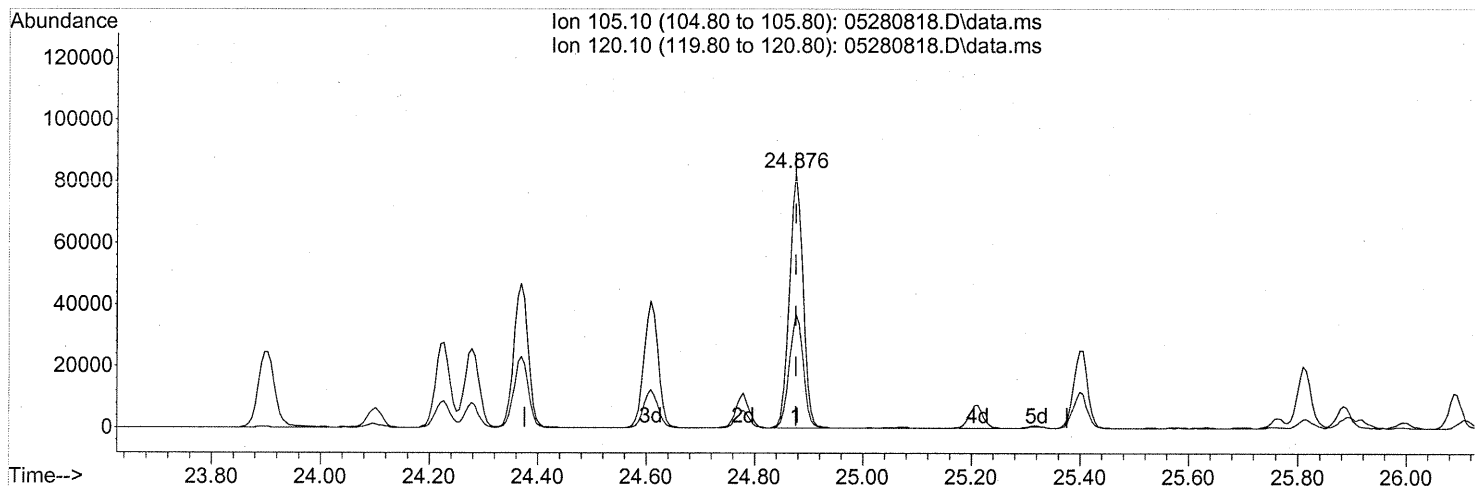
| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 49.40 | 49.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1350

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 1.92ng

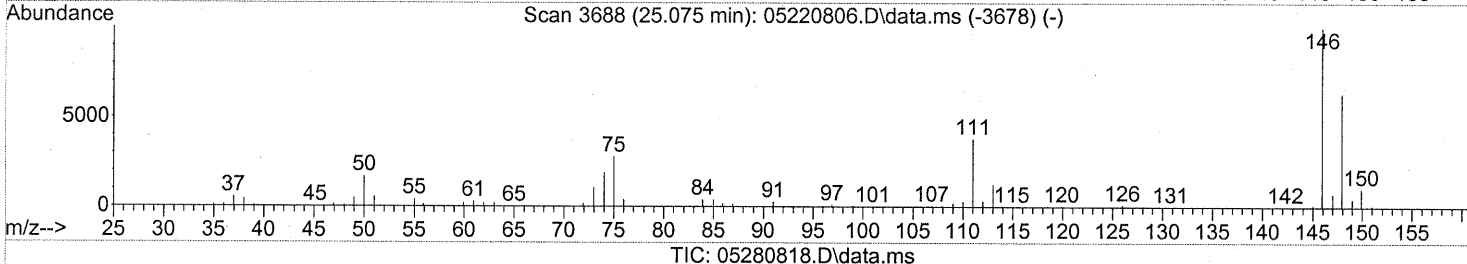
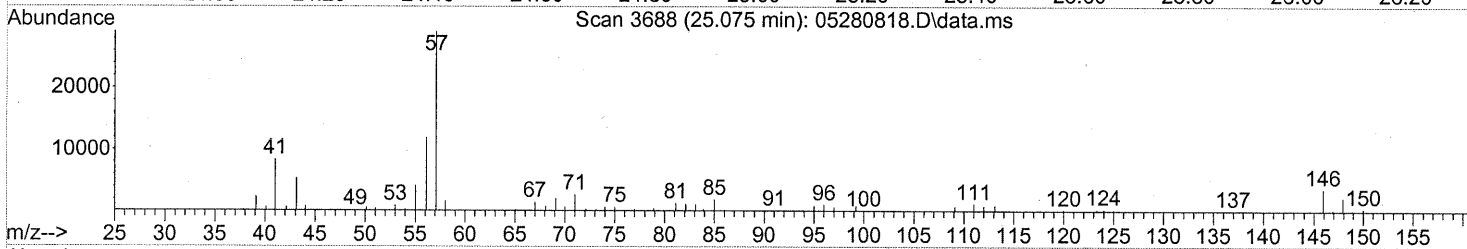
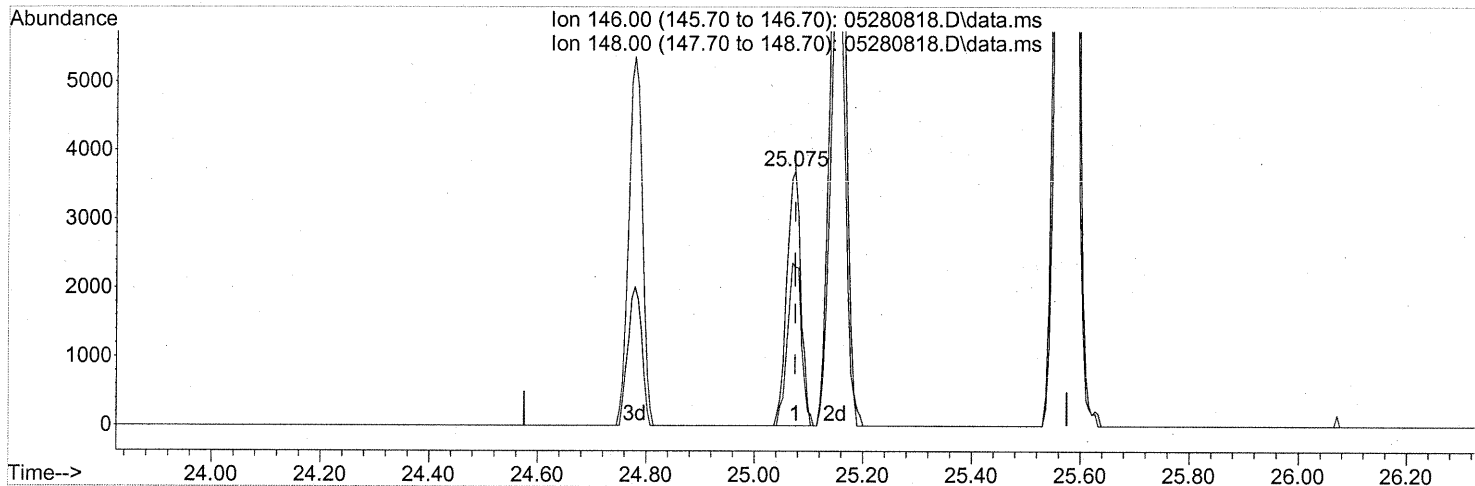
response 143741

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 45.65 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.075min (-0.000) 0.14ng

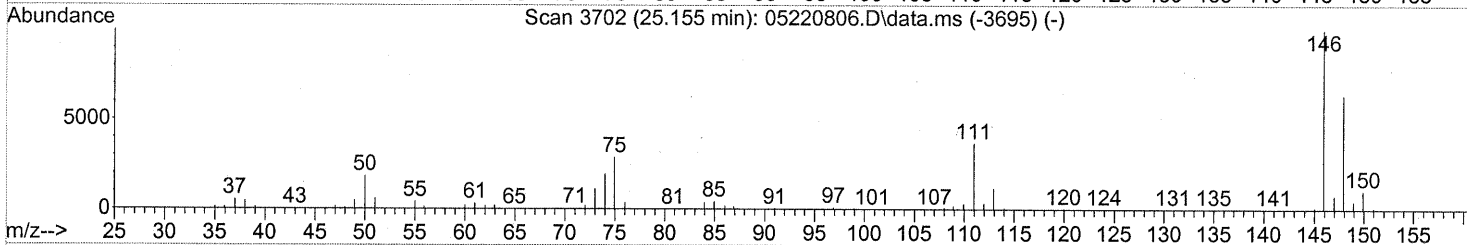
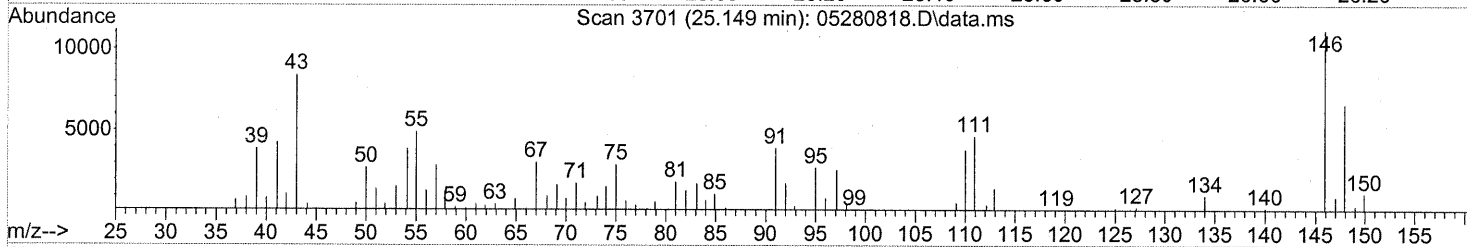
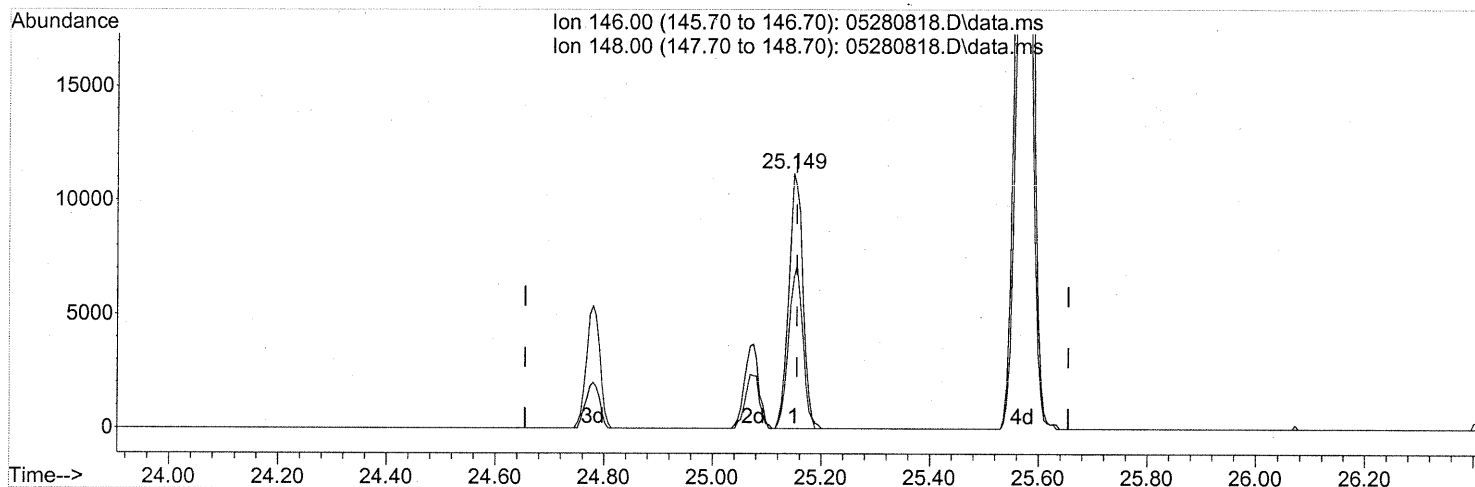
response 6647

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.00 | 64.06 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 0.45ng

response 20239

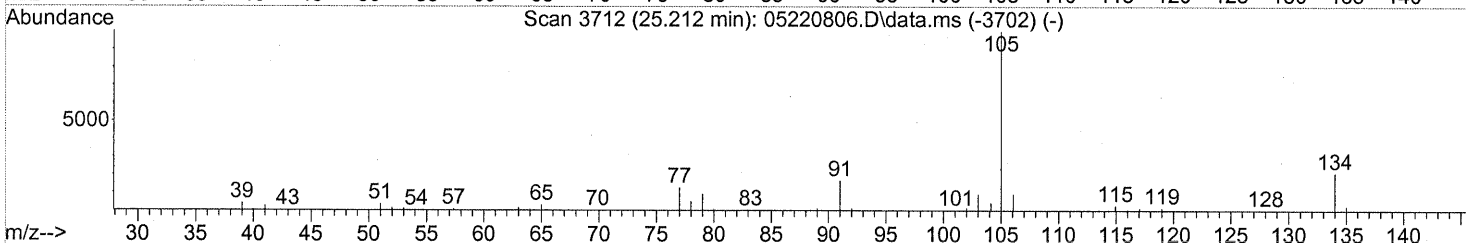
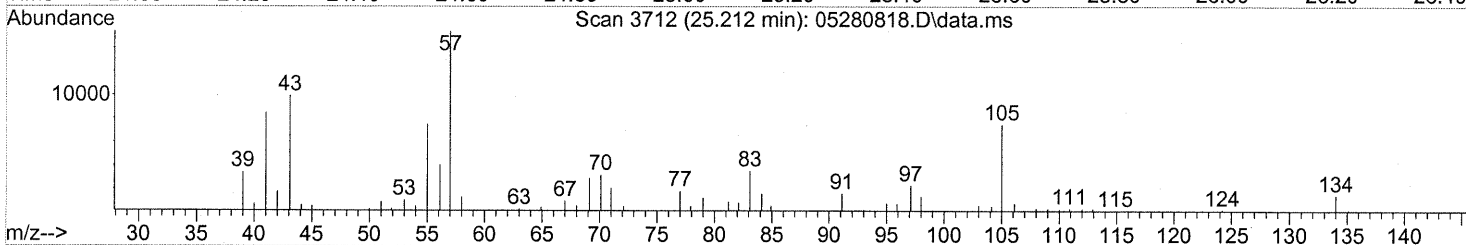
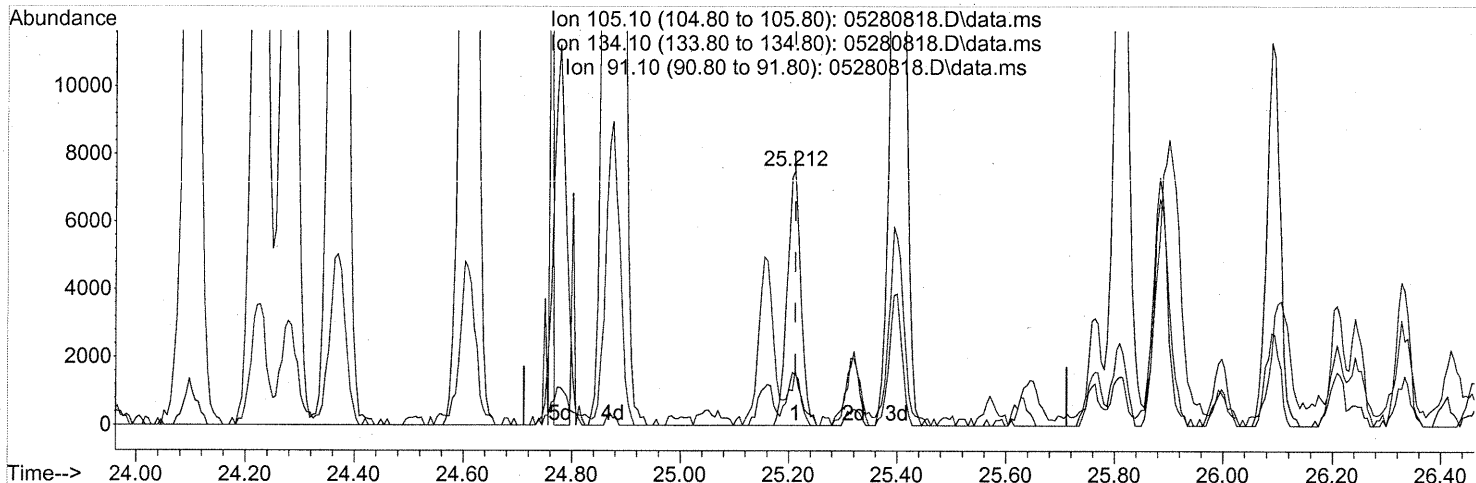
| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 63.70 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1353

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.212min (-0.000) 0.14ng

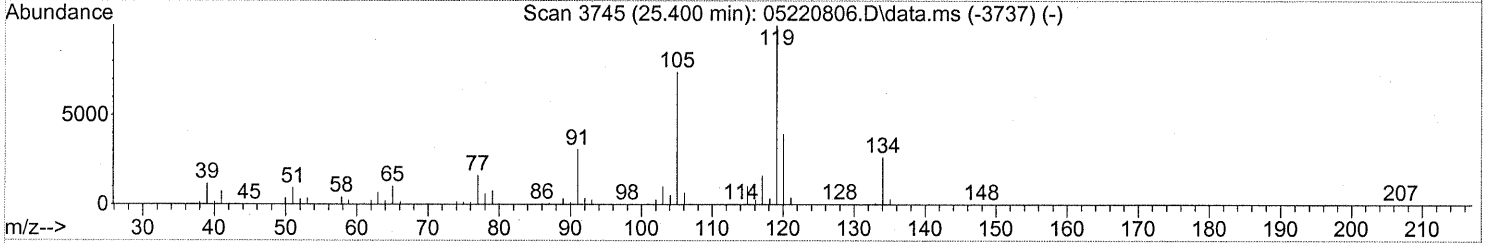
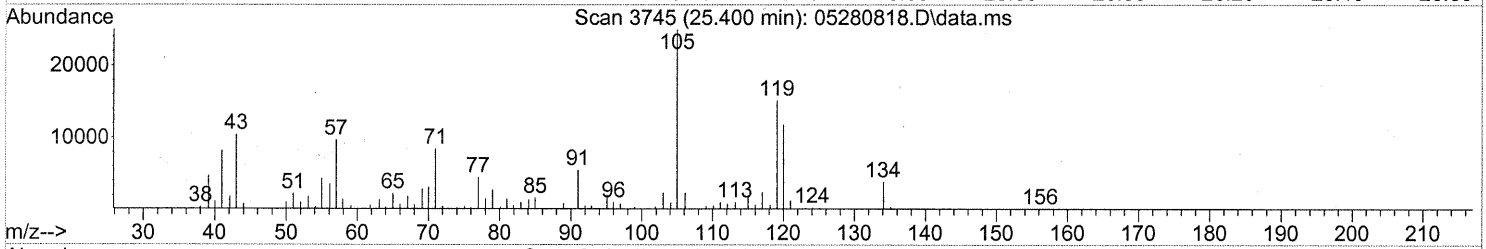
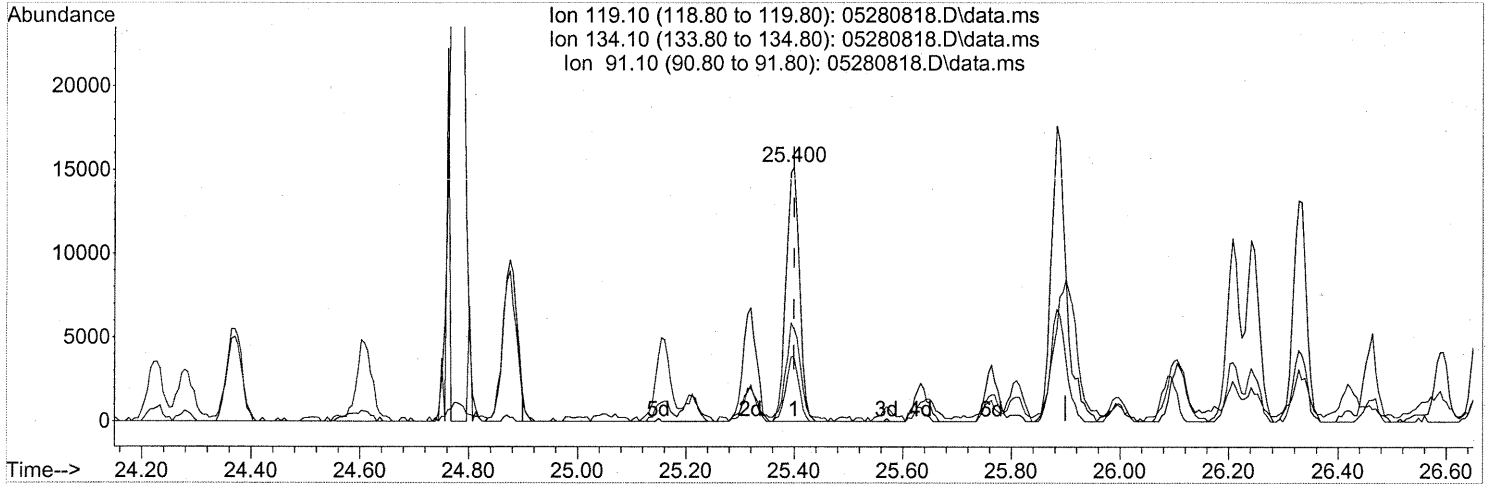
response 13118

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 134.10 | 20.90 | 20.75 |
| 91.10 | 14.60 | 20.13 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.33ng

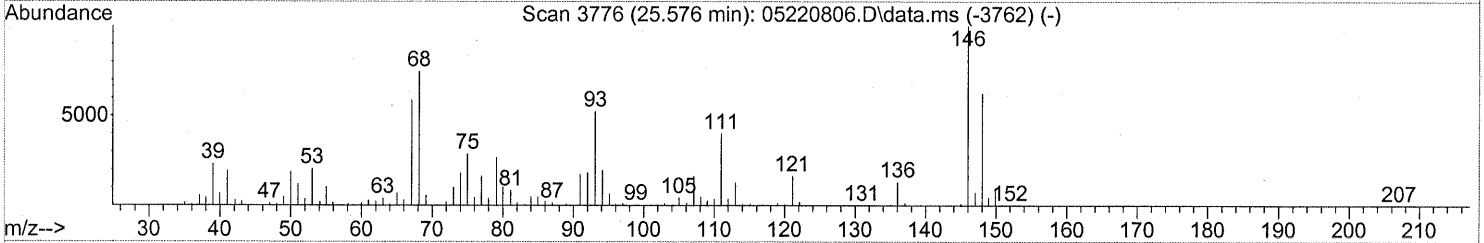
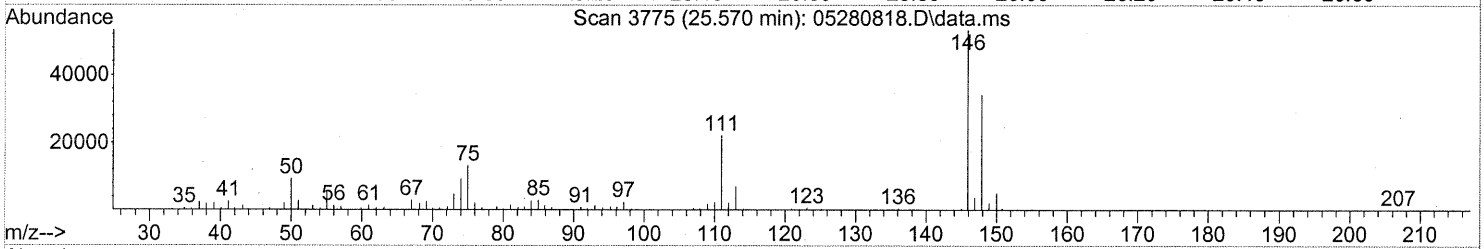
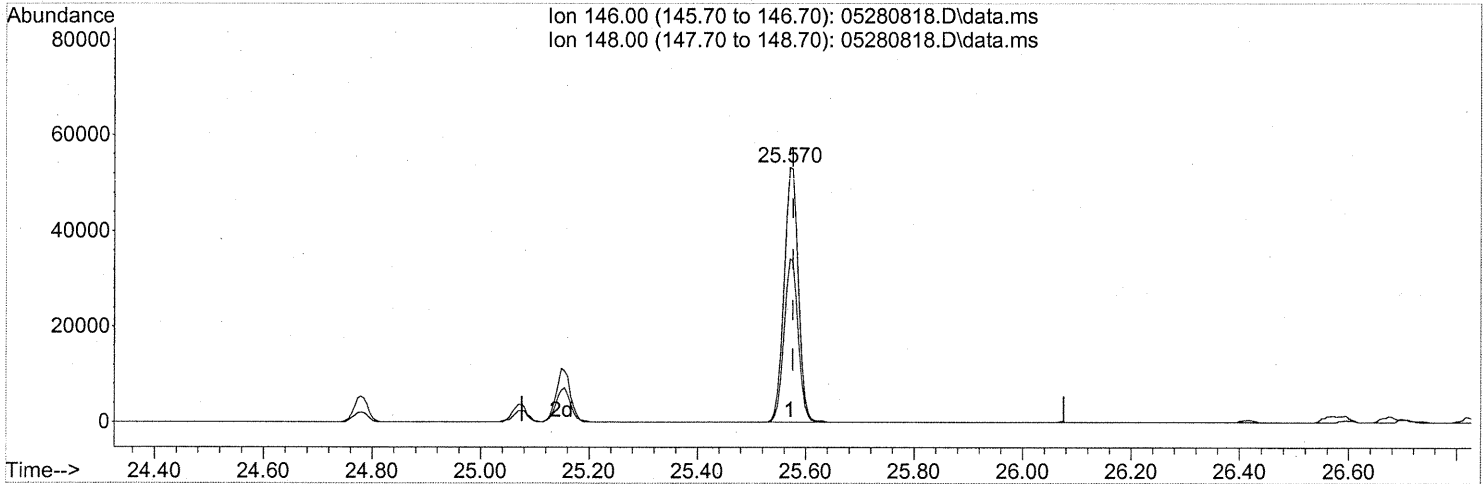
response 26050

| Ion | Exp% | Act% |
|--------|-------|-------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 24.51 |
| 91.10 | 27.10 | 43.07 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.570min (-0.006) 2.20ng

response 97929

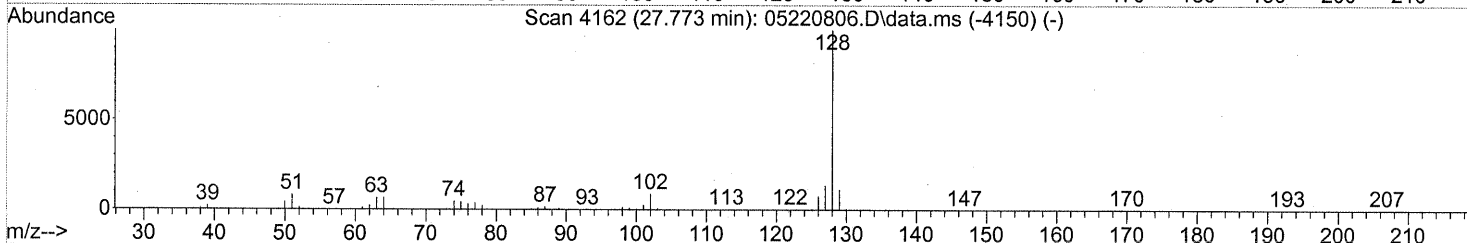
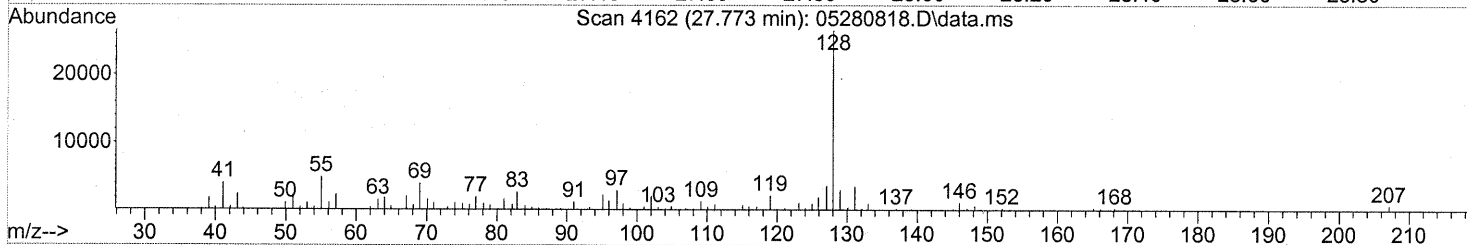
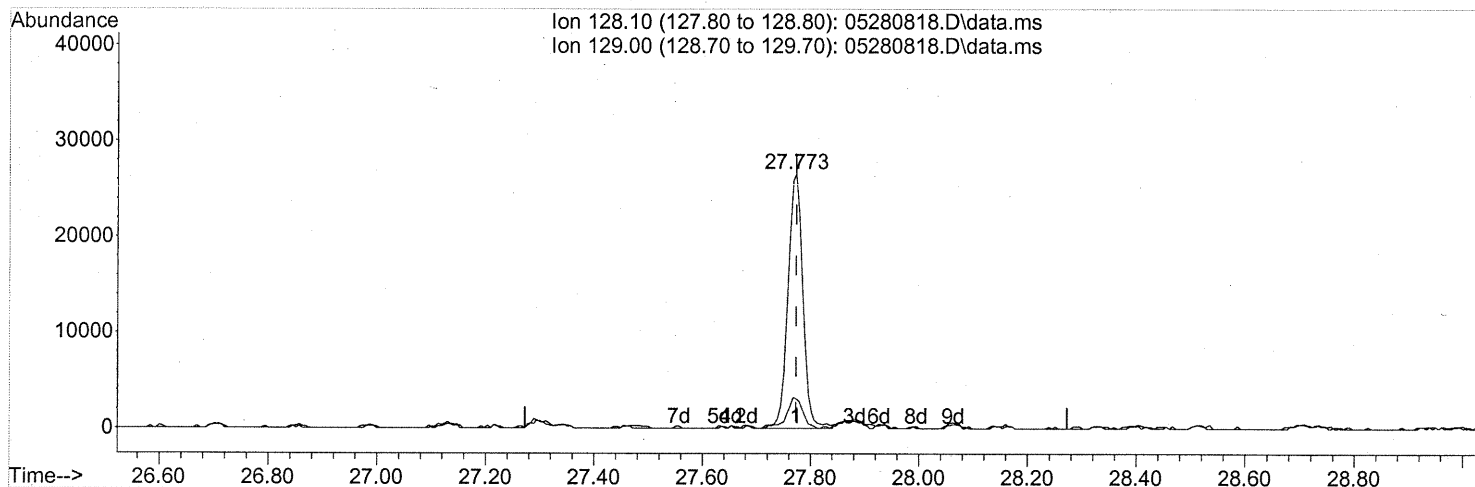
| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 63.40 | 63.55 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1356

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



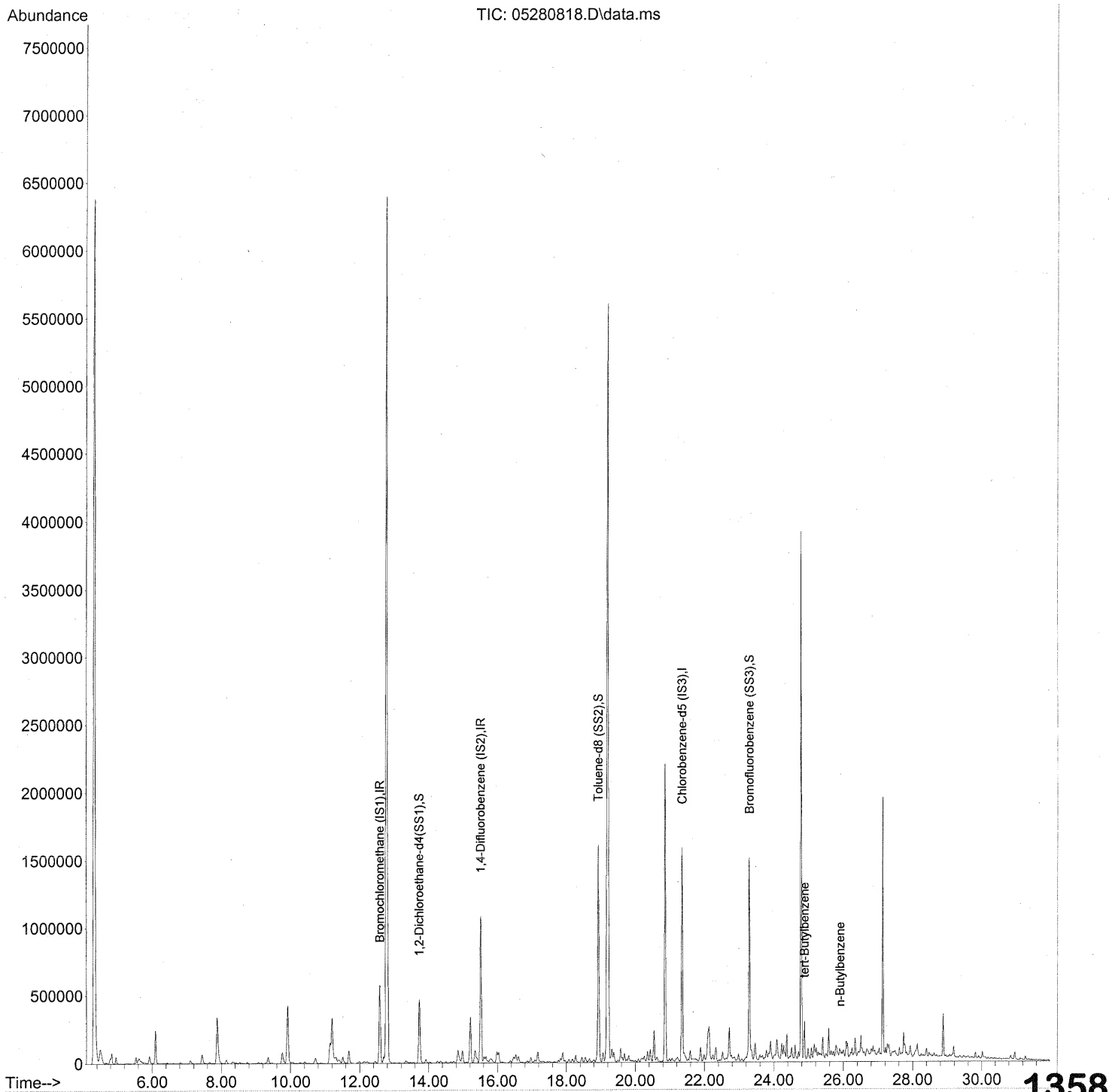
TIC: 05280818.D\data.ms

(95) Naphthalene (T)
 27.773min (-0.000) 0.51ng
 response 50813

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 12.98 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 28 May 2008 10:46 pm
Operator : WA
Sample : P0801483-028 (1000ml)
Misc : ENSR SG07B-05D (-3.8, 3.7)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:24:15 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



1358

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 10:46 pm
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:24:15 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

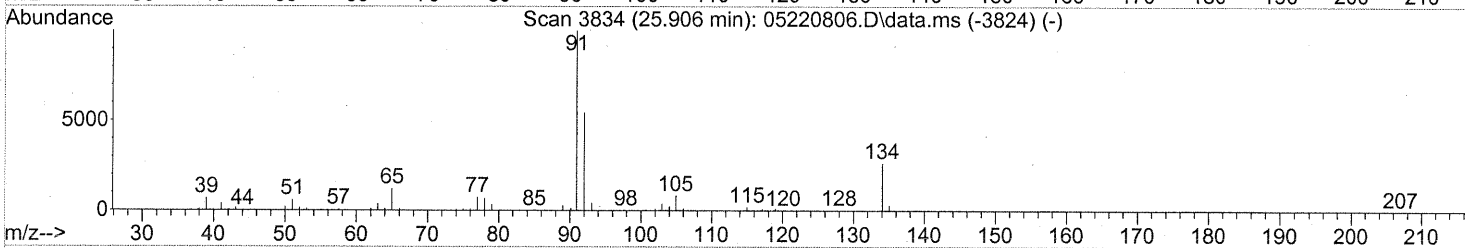
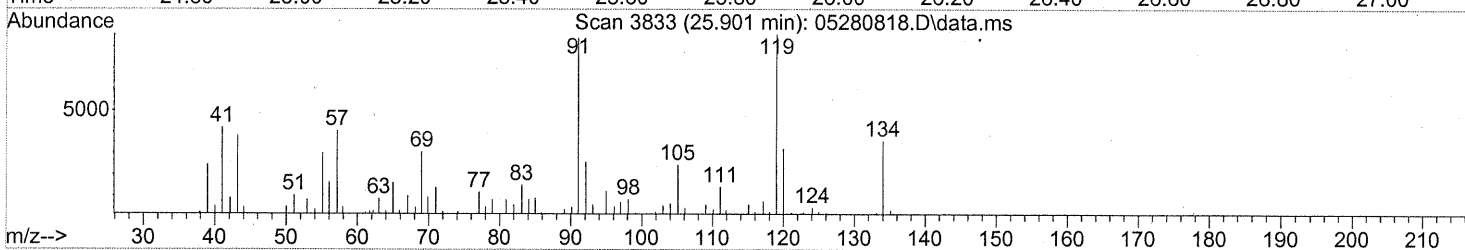
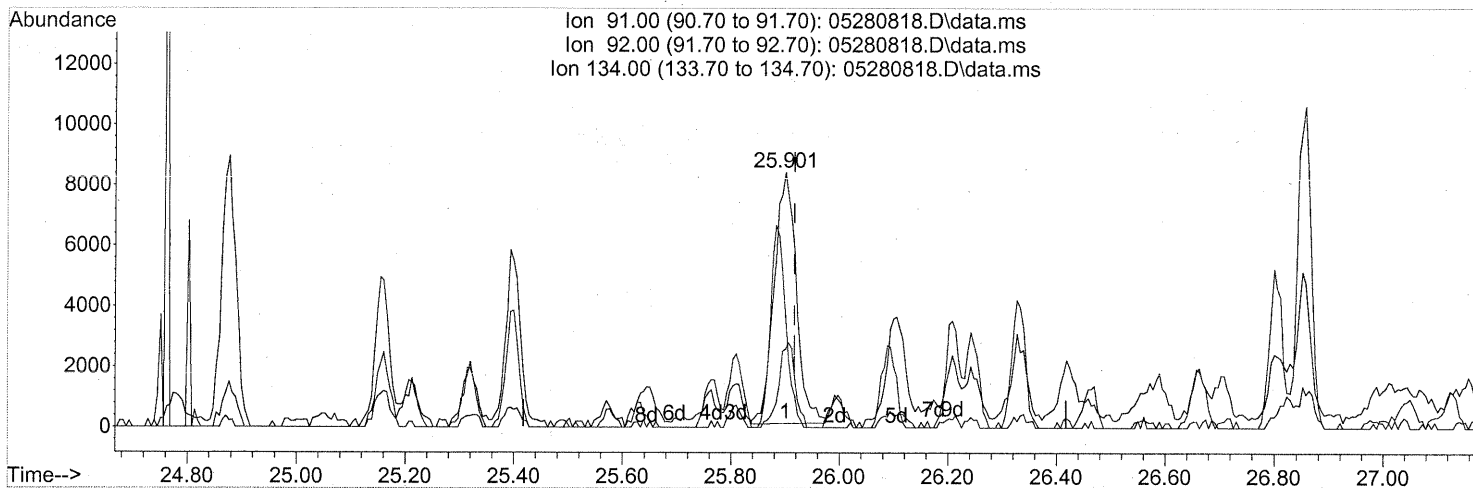
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|--------|------|----------|---------------------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 304032 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1271664 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 610655 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 483524 | 22.953 | ng | -0.02 |
| Spiked Amount | 25.000 | | | Recovery | = | 91.80% |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 1351970 | 24.652 | ng | -0.01 |
| Spiked Amount | 25.000 | | | Recovery | = | 98.60% |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 571975 | 25.647 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 102.60% |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 17738 | 0.247 ng | AR # | 58 |
| 8) n-Butylbenzene | 25.90 | 91 | 23610 | 0.298 ng | M # | 54 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280818.D
 Acq On : 28 May 2008 22:46
 Operator : WA
 Sample : P0801483-028 (1000ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 13:24:15 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



TIC: 05280818.D\data.ms

(8) n-Butylbenzene

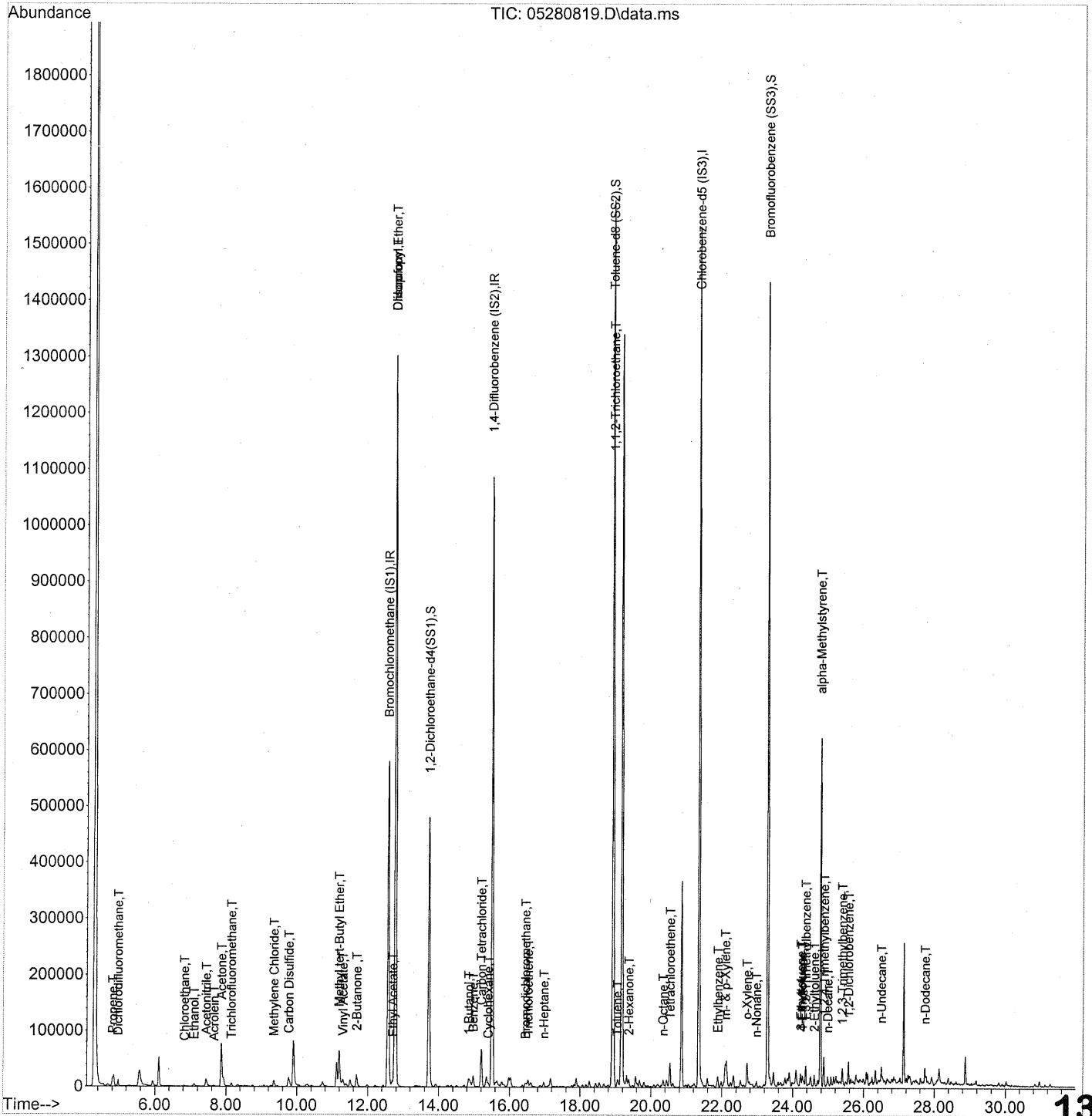
25.901min (-0.017) 0.30ng

response 23610

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 25.12# |
| 134.00 | 28.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280819.D
 Acq On : 28 May 2008 23:27
 Operator : WA
 Sample : P0801483-028 Dil. (200ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1361

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280819.D
 Acq On : 28 May 2008 23:27
 Operator : WA
 Sample : P0801483-028 Dil (200ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 300693 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1273226 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 594738 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 489848 | 23.511 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 94.04% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1335853 | 25.010 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.04% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 548589 | 25.257 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.04% | ✓ |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|--------|-------|----|--------|
| 2) Propene | 4.82 | 42 | 5021 | 0.211 | ng | # 1 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 11002 | 0.251 | ng | 97 |
| 4) Chloromethane | 5.30 | 50 | 1292 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 5.92 | 54 | 63 | N.D. | | |
| 8) Bromomethane | 6.50 | 94 | 56 | N.D. | | |
| 9) Chloroethane | 6.84 | 64 | 2141 | 0.159 | ng | 83 |
| 10) Ethanol | 7.10 | 45 | 7705 | 0.487 | ng | 87 |
| 11) Acetonitrile | 7.44 | 41 | 23093 | 0.505 | ng | 89 |
| 12) Acrolein | 7.67 | 56 | 2251 | 0.199 | ng | 100 |
| 13) Acetone | 7.87 | 58 | 41990 | 2.594 | ng | # 73 |
| 14) Trichlorofluoromethane | 8.15 | 101 | 6074 | 0.162 | ng | 94 |
| 15) Isopropanol | 8.33 | 45 | 4721 | N.D. | | |
| 16) Acrylonitrile | 8.65 | 53 | 179 | N.D. | | |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 300 | N.D. | | |
| 18) tert-Butanol | 9.27 | 59 | 2998 | N.D. | | |
| 19) Methylene Chloride | 9.36 | 84 | 6037 | 0.334 | ng | # 80 |
| 20) Allyl Chloride | 9.46 | 41 | 280 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 1001 | N.D. | | |
| 22) Carbon Disulfide | 9.77 | 76 | 39307 | 0.573 | ng | 98 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 54 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 82406 | 1.574 | ng | 86 |
| 26) Vinyl Acetate | 11.30 | 86 | 3344 | 1.118 | ng | # 18 |
| 27) 2-Butanone | 11.69 | 72 | 8204 | 0.694 | ng | 95 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 142067 | 9.814 | ng | # 1 |
| 30) Ethyl Acetate | 12.71 | 61 | 1349 | 0.212 | ng | 79 |
| 31) n-Hexane | 12.70 | 57 | 1718 | N.D. | | |

1362

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280819.D
 Acq On : 28 May 2008 23:27
 Operator : WA
 Sample : P0801483-028 Dil (200ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 1377757 | 50.247 | ng | 99 |
| 34) Tetrahydrofuran | 13.39 | 72 | 81 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.72 | 62 | 132 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.85 | 56 | 19546 | 1.117 | ng | 92 |
| 41) Benzene | 14.98 | 78 | 22385 | 0.336 | ng | 97 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 56685 | 2.208 | ng | 95 |
| 43) Cyclohexane | 15.40 | 84 | 3528 | 0.136 | ng | # 1 |
| 44) tert-Amyl Methyl Ether | 15.86 | 73 | 80 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 16.46 | 83 | 3788 | 0.168 | ng | 84 |
| 47) Trichloroethene | 16.53 | 130 | 5064 | 0.248 | ng | 98 |
| 48) 1,4-Dioxane | 16.51 | 88 | 1243 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 7157 | N.D. | | |
| 50) Methyl Methacrylate | 16.97 | 100 | 581 | N.D. | | |
| 51) n-Heptane | 16.98 | 71 | 2147 | 0.121 | ng | # 80 |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 542 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 116731 | 7.086 | ng | # 9 |
| 58) Toluene | 19.05 | 91 | 8506 | 0.117 | ng | 99 |
| 59) 2-Hexanone | 19.38 | 43 | 10564 | 0.211 | ng | # 50 |
| 60) Dibromochloromethane | 19.59 | 129 | 260 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.19 | 43 | 4406 | N.D. | | |
| 63) n-Octane | 20.35 | 57 | 2600 | 0.162 | ng | 86 |
| 64) Tetrachloroethene | 20.54 | 166 | 13459 | 0.626 | ng | 97 |
| 65) Chlorobenzene | 21.42 | 112 | 1555 | N.D. | | |
| 66) Ethylbenzene | 21.89 | 91 | 17294 | 0.208 | ng | 94 |
| 67) m- & p-Xylene | 22.10 | 91 | 45544 | 0.818 | ng | 90 |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.57 | 104 | 746 | N.D. | | |
| 70) o-Xylene | 22.71 | 91 | 23997 | 0.399 | ng | 96 |
| 71) n-Nonane | 22.98 | 43 | 5492 | 0.129 | ng | 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.71 | 83 | 75 | N.D. | | |
| 74) Cumene | 23.46 | 105 | 4089 | N.D. | | |
| 75) alpha-Pinene | 23.97 | 93 | 296 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 9554 | N.D. | | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 9643 | 0.113 | ng | 97 |
| 78) 4-Ethyltoluene | 24.27 | 105 | 9378 | 0.118 | ng | 91 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 16891 | 0.235 | ng | 92 |

1363

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280819.D
 Acq On : 28 May 2008 23:27
 Operator : WA
 Sample : P0801483-028 Dil (200ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

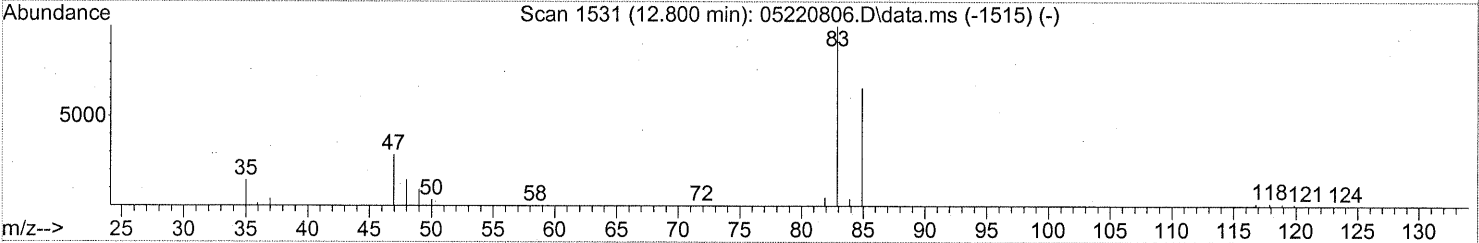
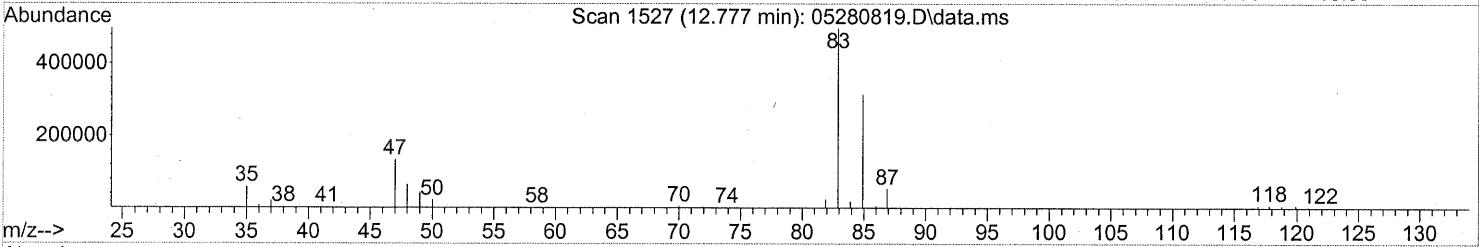
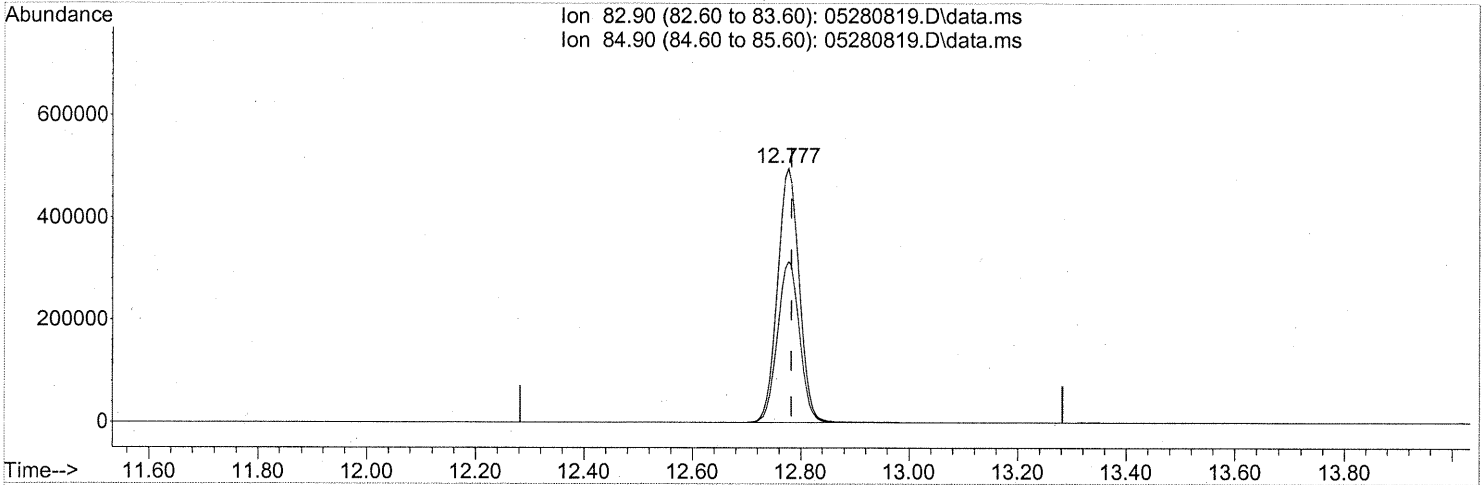
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.78 | 118 | 7053 | 0.182 | ng | # 9 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 14444 | 0.167 | ng | 91 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 26828 | 0.367 | ng | 84 |
| 83) n-Decane | 24.98 | 57 | 5003 | 0.124 | ng | # 59 |
| 84) Benzyl Chloride | 25.04 | 91 | 127 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1321 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 3913 | N.D. | | |
| 87) sec-Butylbenzene | 25.21 | 105 | 2463 | N.D. | | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 5018 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 8373 | 0.117 | ng | 89 |
| 90) 1,2-Dichlorobenzene | 25.57 | 146 | 18638 | 0.430 | ng | 98 |
| 91) d-Limonene | 25.58 | 68 | 800 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 9730 | 0.231 | ng | # 21 |
| 94) 1,2,4-Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 95) Naphthalene | 27.77 | 128 | 9616 | N.D. | | |
| 96) n-Dodecane | 27.74 | 57 | 8647 | 0.207 | ng | # 71 |
| 97) Hexachloro-1,3-butadiene | 0.00 | 225 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280819.D
 Acq On : 28 May 2008 23:27
 Operator : WA
 Sample : P0801483-028 Dil (200ml)
 Misc : ENSR SG07B-05D (-3.8, 3.7)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 04:16:15 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 50.25ng
 response 1377757

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 64.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG17B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-029

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00720

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.63

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.3 | 0.82 | 0.082 | 0.46 | 0.16 | 0.016 | |
| 74-87-3 | Chloromethane | ND | 0.16 | 0.082 | ND | 0.079 | 0.039 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 0.098 | 0.82 | 0.082 | 0.014 | 0.12 | 0.012 | J |
| 75-01-4 | Vinyl Chloride | ND | 0.16 | 0.082 | ND | 0.064 | 0.032 | |
| 74-83-9 | Bromomethane | ND | 0.16 | 0.082 | ND | 0.042 | 0.021 | |
| 75-00-3 | Chloroethane | 3.8 | 0.16 | 0.082 | 1.4 | 0.062 | 0.031 | |
| 64-17-5 | Ethanol | 7.3 | 8.2 | 0.082 | 3.9 | 4.3 | 0.043 | J |
| 67-64-1 | Acetone | 19 | 8.2 | 0.12 | 7.9 | 3.4 | 0.050 | B |
| 75-69-4 | Trichlorofluoromethane | 1.0 | 0.16 | 0.082 | 0.18 | 0.029 | 0.015 | |
| 107-13-1 | Acrylonitrile | 0.15 | 0.82 | 0.11 | 0.068 | 0.38 | 0.053 | J |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.16 | 0.082 | ND | 0.041 | 0.021 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.62 | 0.82 | 0.12 | 0.21 | 0.27 | 0.040 | J |
| 75-09-2 | Methylene Chloride | 1.8 | 0.82 | 0.082 | 0.51 | 0.23 | 0.023 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.16 | 0.082 | ND | 0.052 | 0.026 | |
| 76-13-1 | Trichlorotrifluoroethane | 0.46 | 0.16 | 0.091 | 0.060 | 0.021 | 0.012 | |
| 75-15-0 | Carbon Disulfide | 13 | 0.82 | 0.20 | 4.3 | 0.26 | 0.063 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.16 | 0.082 | ND | 0.041 | 0.021 | |
| 75-34-3 | 1,1-Dichloroethane | 2.6 | 0.16 | 0.082 | 0.65 | 0.040 | 0.020 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.16 | 0.082 | ND | 0.045 | 0.023 | |
| 108-05-4 | Vinyl Acetate | 5.1 | 8.2 | 0.26 | 1.5 | 2.3 | 0.074 | J |
| 78-93-3 | 2-Butanone (MEK) | 5.5 | 0.82 | 0.082 | 1.8 | 0.28 | 0.028 | B |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.16 | 0.082 | ND | 0.041 | 0.021 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.82 | 0.096 | ND | 0.20 | 0.023 | |
| 67-66-3 | Chloroform | 180 | 0.16 | 0.096 | 36 | 0.033 | 0.020 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08 **1366**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG17B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-029

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00720

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.63

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.82 | 0.083 | ND | 0.20 | 0.020 | |
| 107-06-2 | 1,2-Dichloroethane | 2.3 | 0.16 | 0.082 | 0.56 | 0.040 | 0.020 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.16 | 0.082 | ND | 0.030 | 0.015 | |
| 71-43-2 | Benzene | 1.6 | 0.16 | 0.082 | 0.49 | 0.051 | 0.026 | |
| 56-23-5 | Carbon Tetrachloride | 0.28 | 0.16 | 0.082 | 0.044 | 0.026 | 0.013 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.82 | 0.082 | ND | 0.20 | 0.020 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.16 | 0.082 | ND | 0.035 | 0.018 | |
| 75-27-4 | Bromodichloromethane | ND | 0.16 | 0.082 | ND | 0.024 | 0.012 | |
| 79-01-6 | Trichloroethene | 0.30 | 0.16 | 0.082 | 0.056 | 0.030 | 0.015 | |
| 123-91-1 | 1,4-Dioxane | 0.51 | 0.82 | 0.099 | 0.14 | 0.23 | 0.028 | J |
| 80-62-6 | Methyl Methacrylate | ND | 0.82 | 0.12 | ND | 0.20 | 0.030 | |
| 142-82-5 | n-Heptane | 0.51 | 0.82 | 0.10 | 0.12 | 0.20 | 0.025 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.82 | 0.085 | ND | 0.18 | 0.019 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.37 | 0.82 | 0.091 | 0.089 | 0.20 | 0.022 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.82 | 0.10 | ND | 0.18 | 0.023 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.2 | 0.16 | 0.082 | 0.22 | 0.030 | 0.015 | |
| 108-88-3 | Toluene | 2.2 | 0.82 | 0.082 | 0.59 | 0.22 | 0.022 | |
| 591-78-6 | 2-Hexanone | 0.83 | 0.82 | 0.12 | 0.20 | 0.20 | 0.030 | |
| 124-48-1 | Dibromochloromethane | ND | 0.16 | 0.11 | ND | 0.019 | 0.013 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.16 | 0.088 | ND | 0.021 | 0.011 | |
| 111-65-9 | n-Octane | 0.36 | 0.82 | 0.082 | 0.077 | 0.17 | 0.017 | J |
| 127-18-4 | Tetrachloroethene | 7.5 | 0.16 | 0.082 | 1.1 | 0.024 | 0.012 | |
| 108-90-7 | Chlorobenzene | 0.11 | 0.16 | 0.083 | 0.023 | 0.035 | 0.018 | J |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: DA Date: 6/4/08 **1367**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG17B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-029

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00720

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.9

Canister Dilution Factor: 1.63

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 0.16 | 0.82 | 0.10 | 0.036 | 0.19 | 0.023 | J |
| 179601-23-1 | m,p-Xylenes | 0.69 | 0.82 | 0.21 | 0.16 | 0.19 | 0.049 | J |
| 75-25-2 | Bromoform | ND | 0.82 | 0.12 | ND | 0.079 | 0.012 | |
| 100-42-5 | Styrene | 0.46 | 0.82 | 0.12 | 0.11 | 0.19 | 0.029 | J |
| 95-47-6 | o-Xylene | 0.27 | 0.82 | 0.10 | 0.063 | 0.19 | 0.024 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.16 | 0.10 | ND | 0.024 | 0.015 | |
| 98-82-8 | Cumene | ND | 0.82 | 0.091 | ND | 0.17 | 0.019 | |
| 103-65-1 | n-Propylbenzene | 0.088 | 0.82 | 0.085 | 0.018 | 0.17 | 0.017 | J |
| 622-96-8 | 4-Ethyltoluene | 0.11 | 0.82 | 0.093 | 0.022 | 0.17 | 0.019 | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.82 | 0.098 | ND | 0.17 | 0.020 | |
| 98-83-9 | alpha-Methylstyrene | 0.19 | 0.82 | 0.12 | 0.039 | 0.17 | 0.025 | J |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.35 | 0.82 | 0.11 | 0.072 | 0.17 | 0.023 | J |
| 100-44-7 | Benzyl Chloride | ND | 0.16 | 0.14 | ND | 0.031 | 0.027 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.14 | 0.16 | 0.10 | 0.023 | 0.027 | 0.017 | J |
| 106-46-7 | 1,4-Dichlorobenzene | 0.52 | 0.16 | 0.091 | 0.086 | 0.027 | 0.015 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.82 | 0.095 | ND | 0.15 | 0.017 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.19 | 0.82 | 0.11 | 0.035 | 0.15 | 0.019 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.16 | 0.11 | ND | 0.027 | 0.018 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.82 | 0.12 | ND | 0.084 | 0.013 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.16 | 0.12 | ND | 0.022 | 0.017 | |
| 91-20-3 | Naphthalene | 0.92 | 0.33 | 0.12 | 0.18 | 0.062 | 0.023 | |
| 87-68-3 | Hexachlorobutadiene | 0.26 | 0.16 | 0.15 | 0.024 | 0.015 | 0.014 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.33 | 0.082 | ND | 0.059 | 0.015 | |
| 104-51-8 | n-Butylbenzene | 0.22 | 0.33 | 0.082 | 0.041 | 0.059 | 0.015 | J, M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

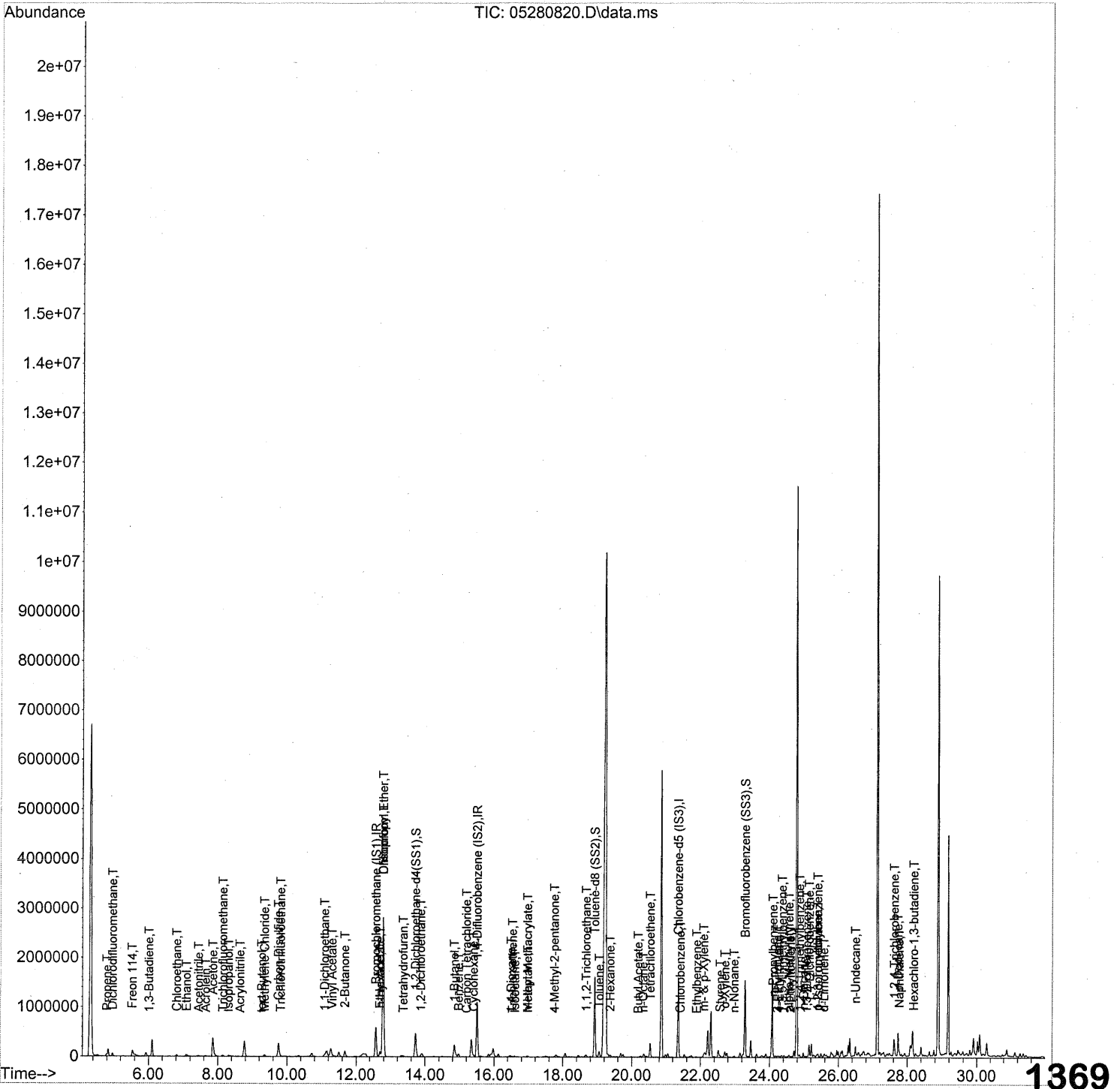
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: CA Date: 6/4/08 **1368**

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1369

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 306641 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1309030 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 617431 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 486807 | 22.912 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 91.64% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1358370 | 24.497 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 98.00% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 579699 | 25.708 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.84% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.80 | 42 | 15854 | 0.655 | ng | 97 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 62771 | 1.406 | ng | 99 |
| 4) Chloromethane | 5.30 | 50 | 286 | N.D. | ✓ | |
| 5) Freon 114 | 5.53 | 135 | 1313 | 0.060 | ng | 71 |
| 6) Vinyl Chloride | 5.75 | 62 | 392 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 6.01 | 54 | 3547 | 0.165 | ng | # 73 |
| 8) Bromomethane | 6.49 | 94 | 508 | N.D. | ✓ | |
| 9) Chloroethane | 6.82 | 64 | 31960 | 2.326 | ng | 95 |
| 10) Ethanol | 7.10 | 45 | 71987m | 4.465 | ng | |
| 11) Acetonitrile | 7.44 | 41 | 26700 | 0.573 | ng | 97 |
| 12) Acrolein | 7.65 | 56 | 18618 | 1.617 | ng | 98 |
| 13) Acetone | 7.86 | 58 | 190660m | 11.550 | ng | |
| 14) Trichlorofluoromethane | 8.14 | 101 | 24079 | 0.629 | ng | 97 |
| 15) Isopropanol | 8.32 | 45 | 46357 | 0.881 | ng | 95 |
| 16) Acrylonitrile | 8.65 | 53 | 2254 | 0.090 | ng | 91 |
| 17) 1,1-Dichloroethene | 9.17 | 96 | 56 | N.D. | ✓ | |
| 18) tert-Butanol | 9.27 | 59 | 17135m | 0.383 | ng | |
| 19) Methylene Chloride | 9.36 | 84 | 20029 | 1.086 | ng | # 82 |
| 20) Allyl Chloride | 9.56 | 41 | 898 | N.D. | ✓ | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 4930 | 0.283 | ng | 87 |
| 22) Carbon Disulfide | 9.75 | 76 | 575317 | 8.218 | ng | 98 |
| 23) trans-1,2-Dichloroethene | 10.72 | 61 | 942 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 51944 | 1.623 | ng | 94 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 1750 | N.D. | ✓ | |
| 26) Vinyl Acetate | 11.30 | 86 | 9632m | 3.157 | ng | |
| 27) 2-Butanone | 11.67 | 72 | 40291 | 3.344 | ng | 100 |
| 28) cis-1,2-Dichloroethene | 12.36 | 61 | 117 | N.D. | ✓ | |
| 29) Diisopropyl Ether | 12.78 | 87 | 322151 | 21.822 | ng | NR# 1 |
| 30) Ethyl Acetate | 12.69 | 61 | 3762 | 0.578 | ng | # 70 |
| 31) n-Hexane | 12.70 | 57 | 52099 | 1.588 | ng | 1370 |

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|------------|-------|----------|
| 32) Chloroform | 12.78 | 83 | 3056399 | 109.306 ng | | 100 |
| 34) Tetrahydrofuran | 13.37 | 72 | 6394 | 0.555 ng | # | 89 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 903 | N.D. ✓ | | |
| 36) 1,2-Dichloroethane | 13.88 | 62 | 37788 | 1.399 ng | | 95 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 634 | N.D. ✓ | | |
| 39) Isopropyl Acetate | 14.98 | 61 | 386 | N.D. | | |
| 40) 1-Butanol | 14.85 | 56 | 219131 | 12.179 ng | | 88 |
| 41) Benzene | 14.98 | 78 | 65305 | 0.953 ng | | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 4523 | 0.171 ng | | 96 |
| 43) Cyclohexane | 15.41 | 84 | 10153 | 0.381 ng | # | 1 |
| 44) tert-Amyl Methyl Ether | 15.83 | 73 | 658 | N.D. ✓ | | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 271 | N.D. ✓ | | |
| 46) Bromodichloromethane | 16.45 | 83 | 873 | N.D. ✓ | | |
| 47) Trichloroethene | 16.54 | 130 | 3871 | 0.184 ng | | 92 |
| 48) 1,4-Dioxane | 16.50 | 88 | 4015 | 0.311 ng | | 96 |
| 49) Isooctane | 16.61 | 57 | 9425 | 0.120 ng | # | 1 |
| 50) Methyl Methacrylate | 16.98 | 100 | 1830 | 0.267 ng | NR# | 1 |
| 51) n-Heptane | 16.98 | 71 | 5716 | 0.314 ng | # | 73 |
| 52) cis-1,3-Dichloropropene | 17.79 | 75 | 830 | N.D. ✓ | | |
| 53) 4-Methyl-2-pentanone | 17.76 | 58 | 4071 | 0.224 ng | | 99 |
| 54) trans-1,3-Dichloropropene | 18.45 | 75 | 203 | N.D. ✓ | | |
| 55) 1,1,2-Trichloroethane | 18.68 | 97 | 12317 | 0.727 ng | | 89 |
| 58) Toluene | 19.06 | 91 | 102811 | 1.364 ng | | 97 |
| 59) 2-Hexanone | 19.37 | 43 | 26487 | 0.510 ng | # | 53 |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. ✓ | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. ✓ | | |
| 62) Butyl Acetate | 20.19 | 43 | 3433 | 0.065 ng | | 83 |
| 63) n-Octane | 20.33 | 57 | 3666 | 0.220 ng | | 80 |
| 64) Tetrachloroethene | 20.54 | 166 | 102709 | 4.605 ng | | 98 |
| 65) Chlorobenzene | 21.41 | 112 | 3351 | 0.066 ng | | 80 |
| 66) Ethylbenzene | 21.89 | 91 | 8254 | 0.096 ng | | 97 |
| 67) m- & p-Xylene | 22.09 | 91 | 24387 | 0.422 ng | | 73 |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. ✓ | | |
| 69) Styrene | 22.57 | 104 | 14729 | 0.285 ng | | 95 |
| 70) o-Xylene | 22.71 | 91 | 10515 | 0.168 ng | # | 40 |
| 71) n-Nonane | 22.98 | 43 | 14221 | 0.321 ng | # | 80 |
| 72) 1,1,2,2-Tetrachloroethane | 22.66 | 83 | 142 | N.D. ✓ | | |
| 74) Cumene | 23.46 | 105 | 2160 | N.D. ✓ | | |
| 75) alpha-Pinene | 23.97 | 93 | 1755 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 5697 | 0.054 ng | # | 81 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 9898 | 0.112 ng | | 96 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 5387 | 0.065 ng | | 94 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 3814 | 0.051 ng | | 89 |

1371

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:16:06 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

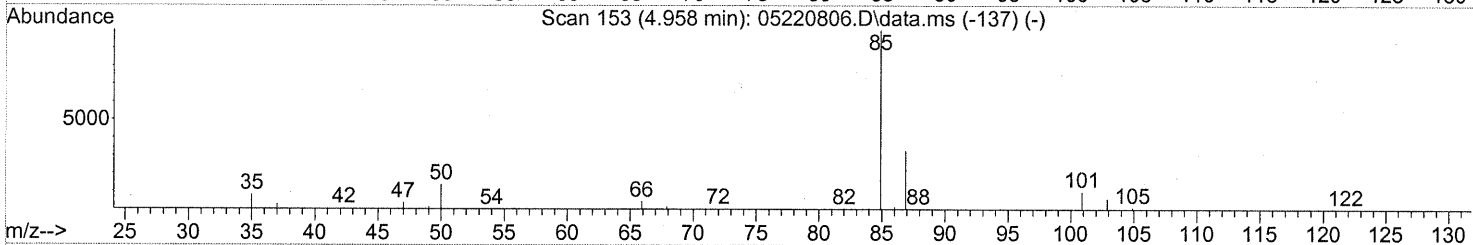
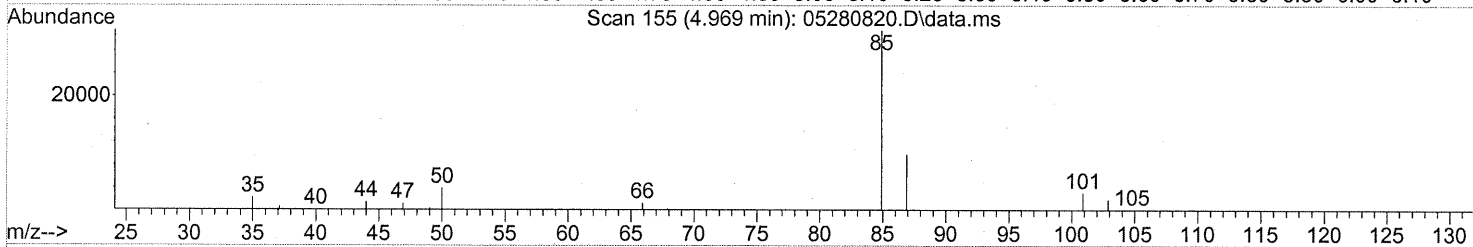
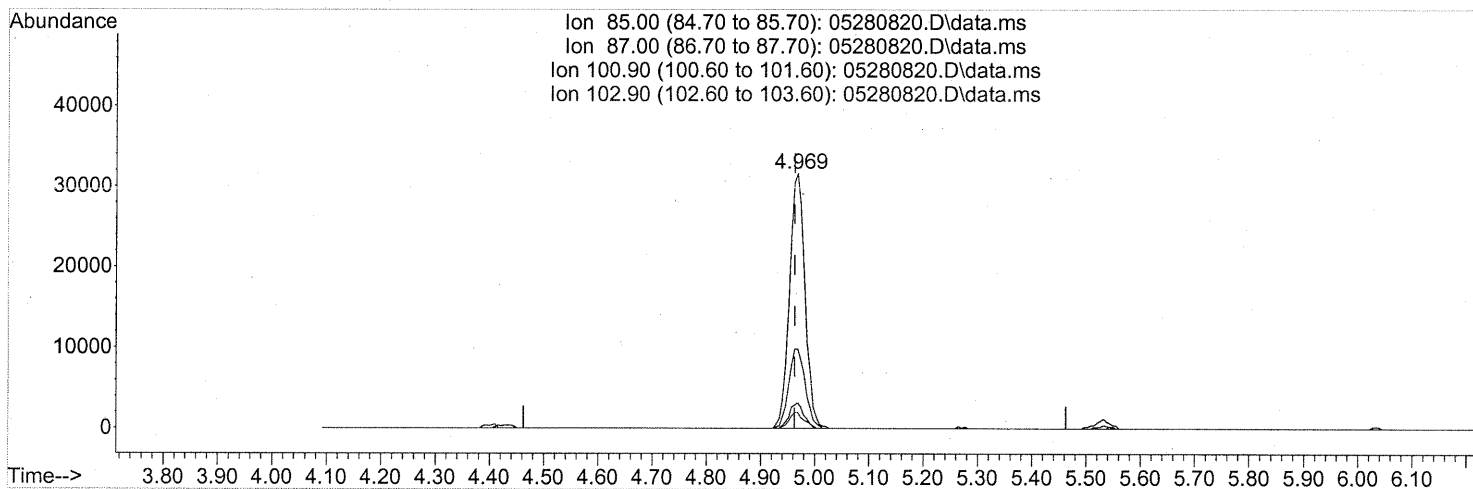
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 4646 | 0.115 | ng | 90 |
| 81) 2-Ethyltoluene | 24.60 | 105 | 7401 | 0.083 | ng | 86 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 16360 | 0.216 | ng | 94 |
| 83) n-Decane | 24.98 | 57 | 33869 | 0.812 | ng | 72 |
| 84) Benzyl Chloride | 25.06 | 91 | 984 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 3916 | 0.083 | ng | 94 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 14607 | 0.318 | ng | 98 |
| 87) sec-Butylbenzene | 25.22 | 105 | 1588 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 9321 | 0.117 | ng | 90 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 8165 | 0.110 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 841 | N.D. | ✓ | |
| 91) d-Limonene | 25.57 | 68 | 4727 | 0.156 | ng | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.50 | 157 | 407 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 75928 | 1.738 | ng | # 67 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 2160 | 0.066 | ng | 97 |
| 95) Naphthalene | 27.77 | 128 | 56578 | 0.566 | ng | 96 |
| 96) n-Dodecane | 27.73 | 57 | 153506 | 3.534 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 3448 | 0.157 | ng | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.005) 1.41ng

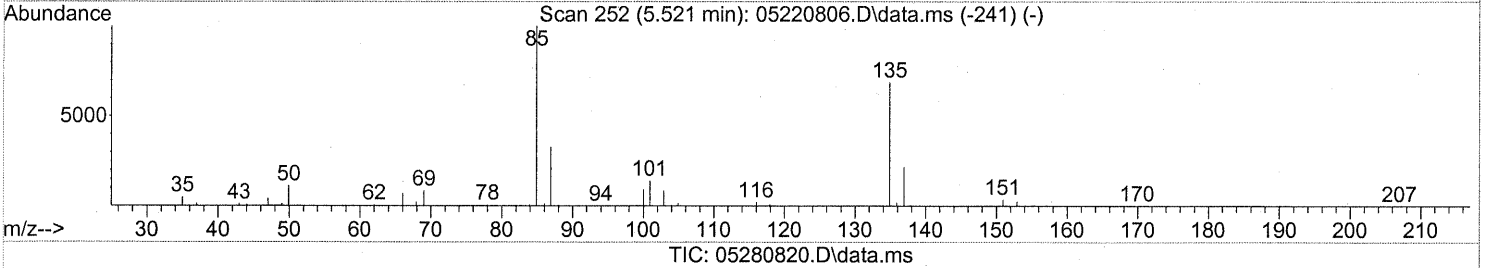
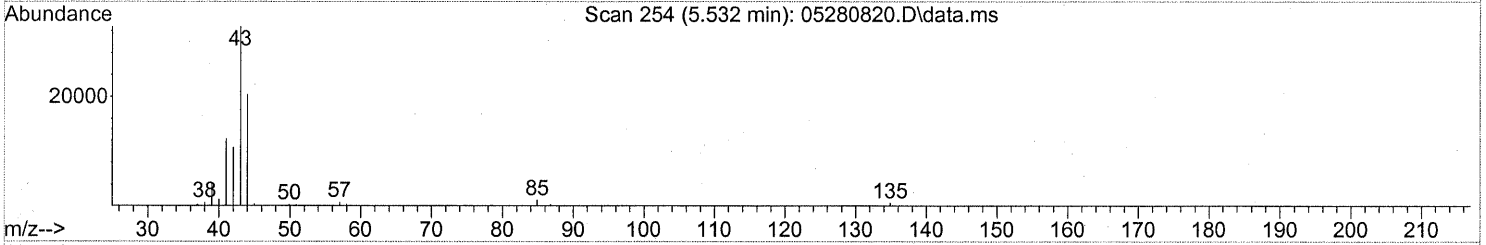
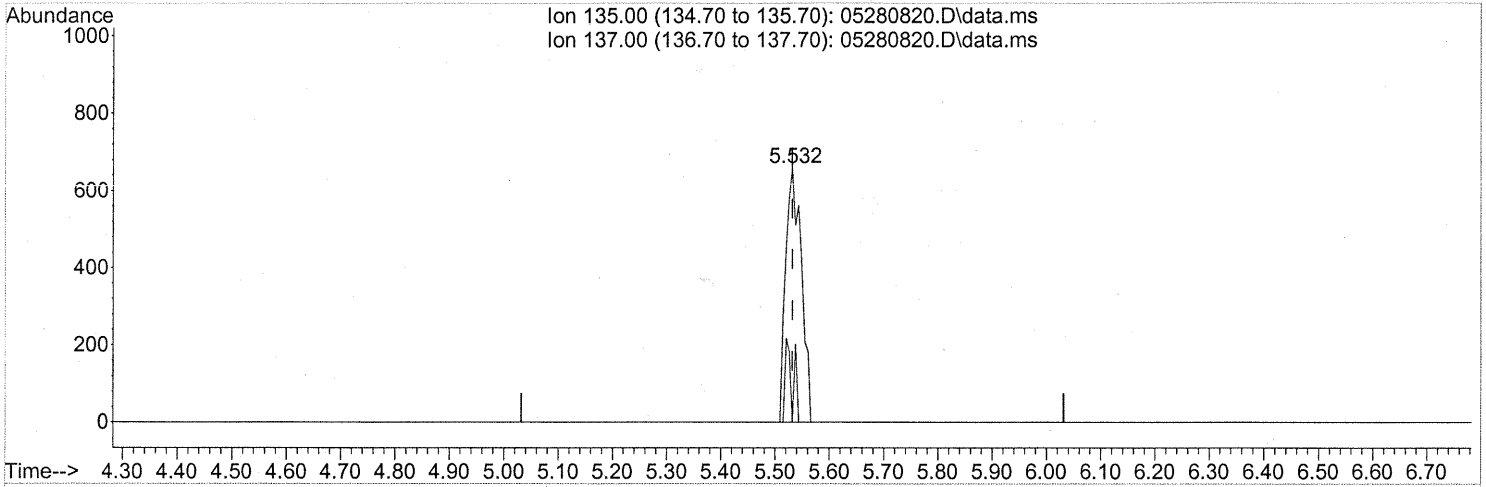
response 62771

| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 33.06 |
| 100.90 | 9.30 | 9.26 |
| 102.90 | 6.00 | 5.80 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(5) Freon 114 (T)

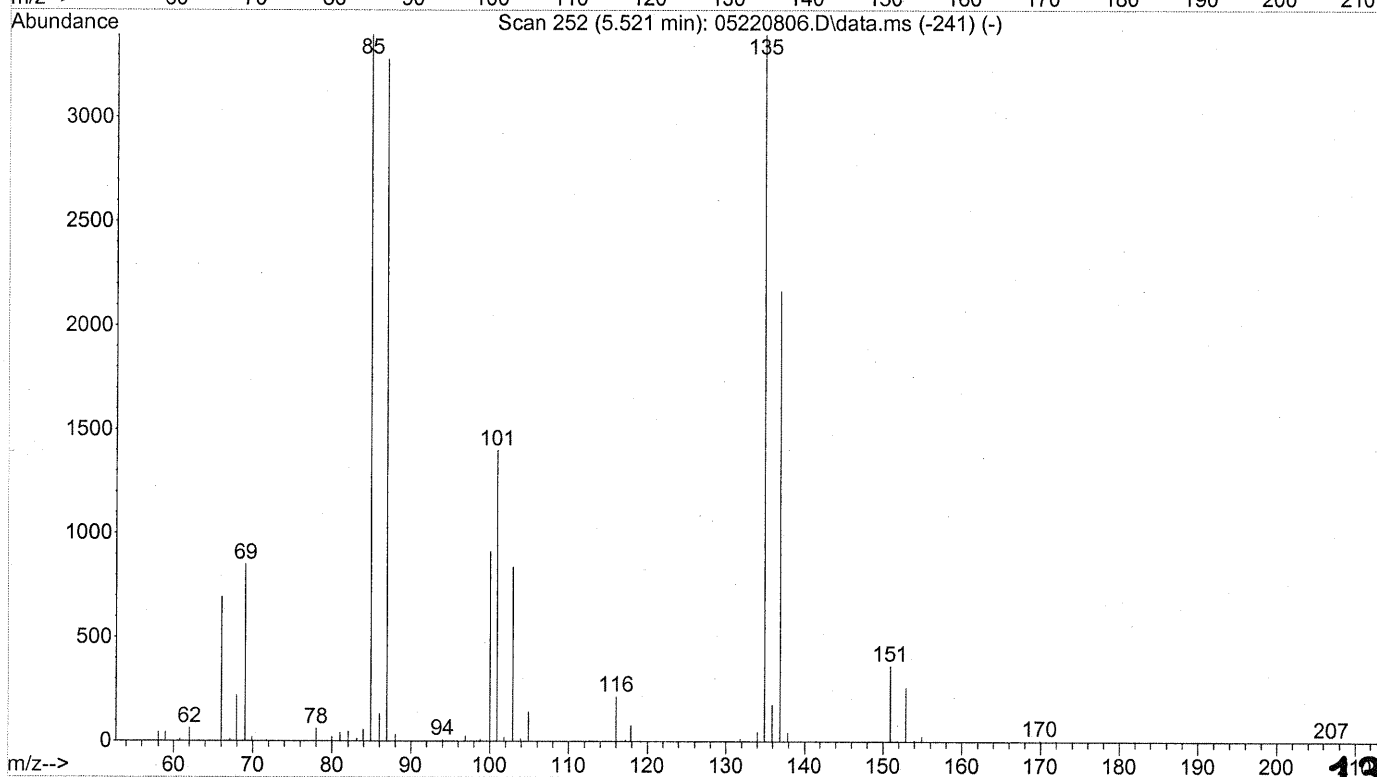
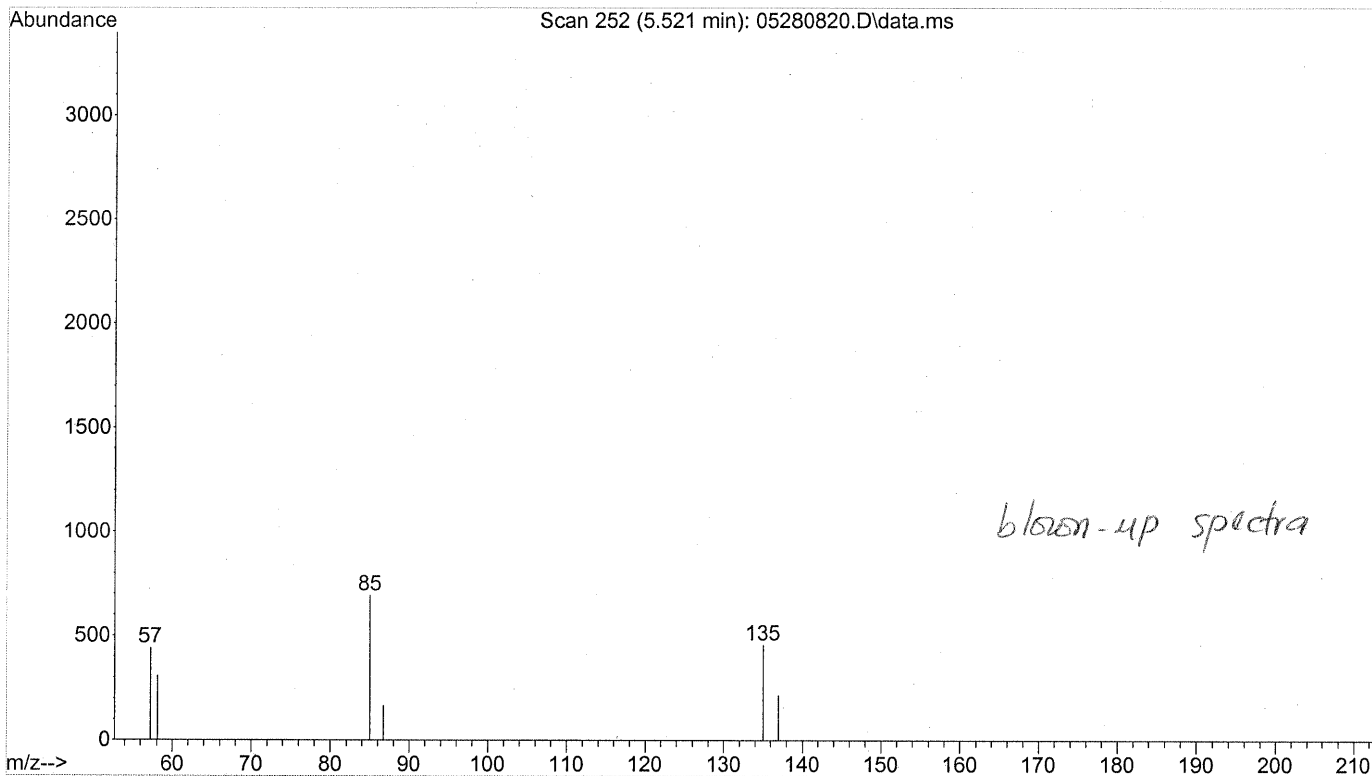
5.532min (-0.000) 0.06ng

response 1313

| Ion | Exp% | Act% |
|--------|-------|-------|
| 135.00 | 100 | 100 |
| 137.00 | 31.50 | 15.61 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

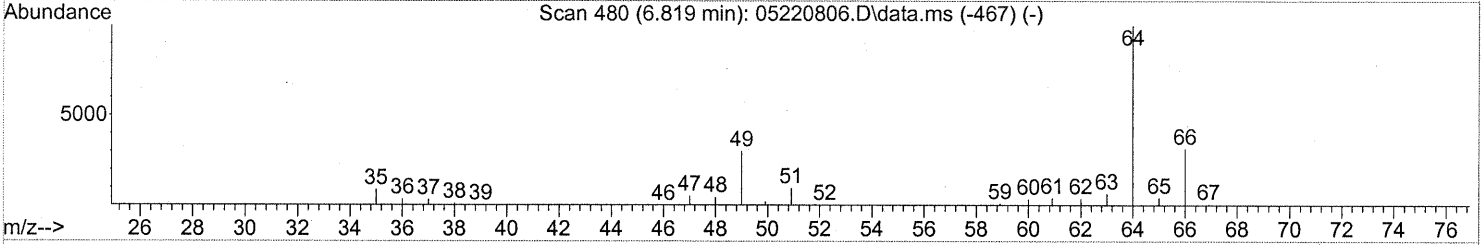
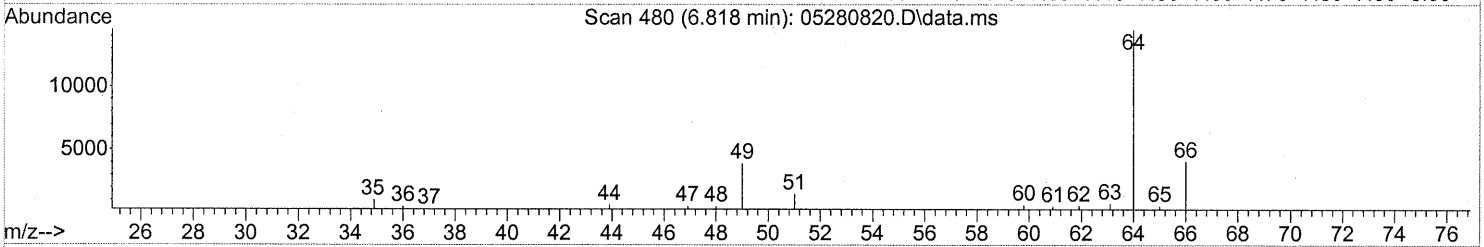
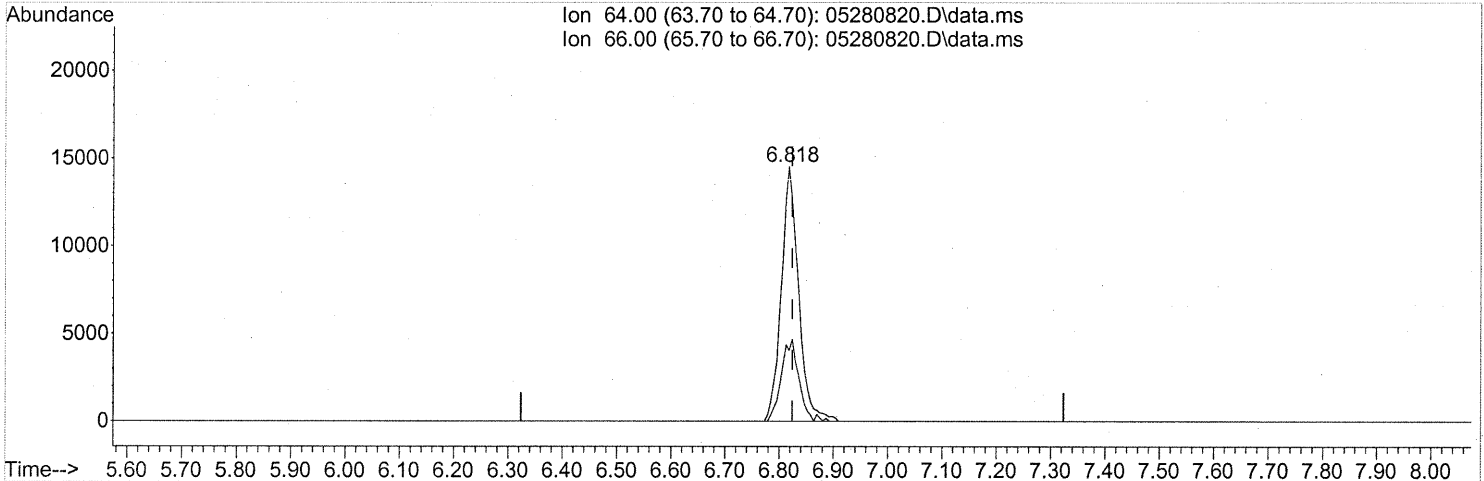
File :J:\MS13\DATA\2008_05\28\05280820.D
Operator : WA
Acquired : 29 May 2008 00:10 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-029 (1000ml)
Misc Info : ENSR SG17B-05 (-3.3, 3.9)
Vial Number: 1



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(9) Chloroethane (T)

6.818min (-0.006) 2.33ng
 response 31960

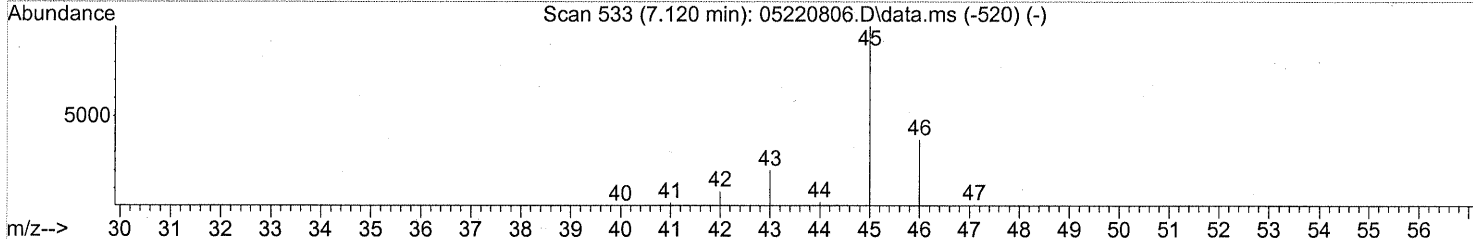
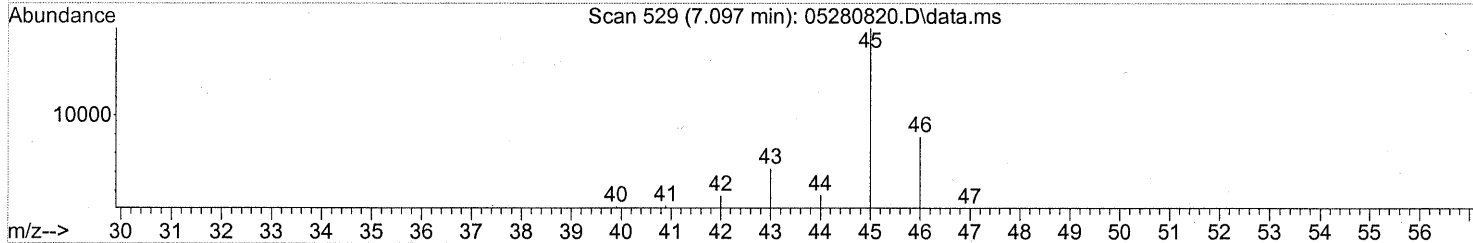
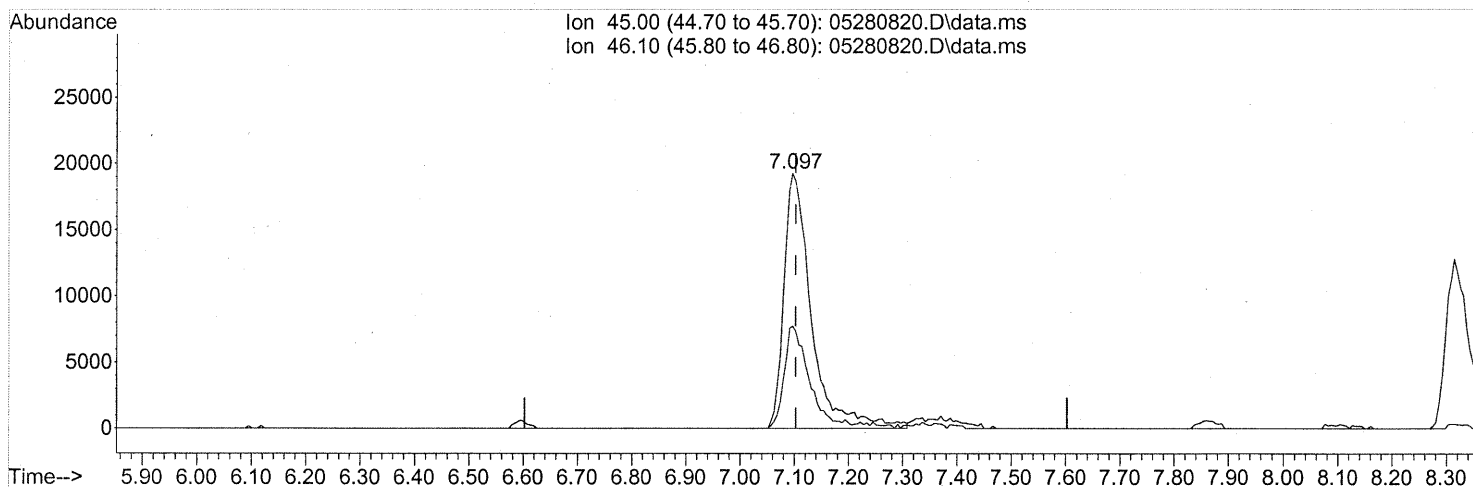
| Ion | Exp% | Act% |
|-------|-------|-------|
| 64.00 | 100 | 100 |
| 66.00 | 29.60 | 32.12 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1376

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 4.18ng

response 67470

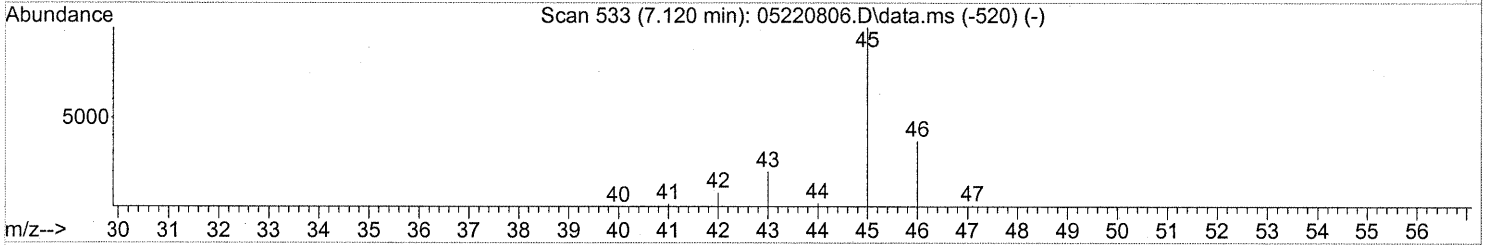
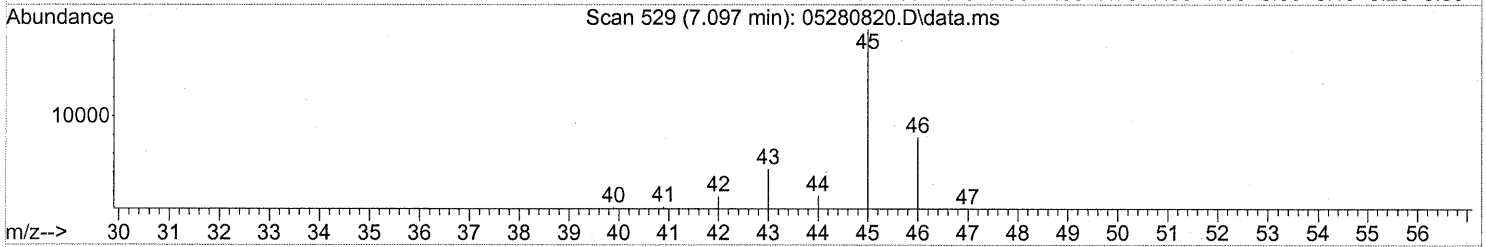
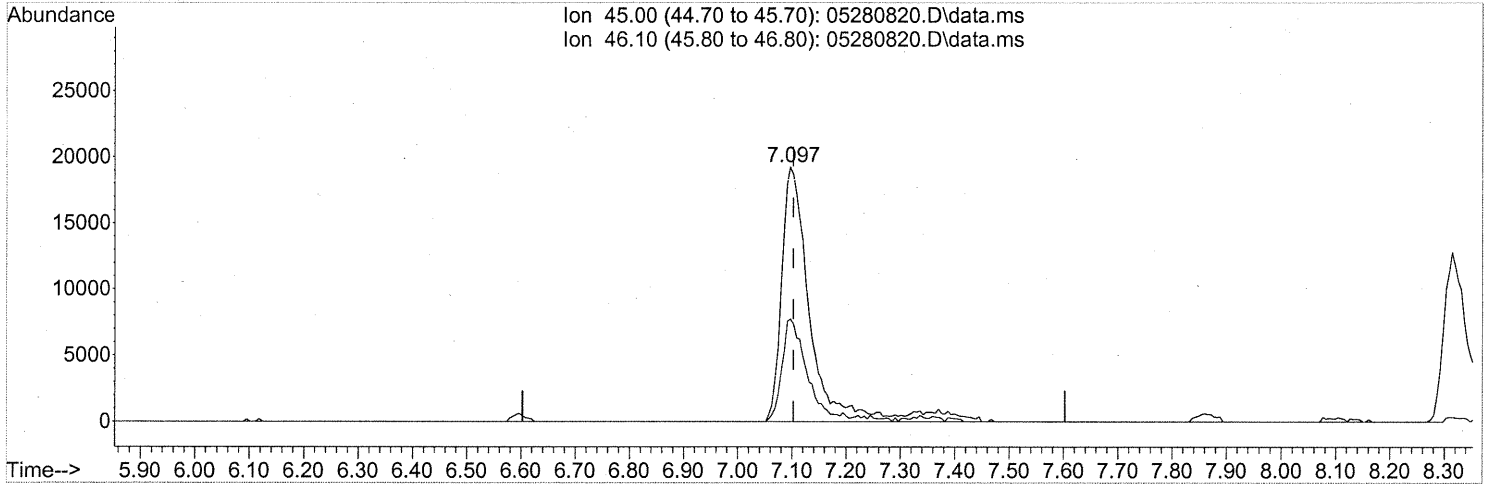
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 36.61 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 4.46ng m

response 71987

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 34.31 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

incl tailing

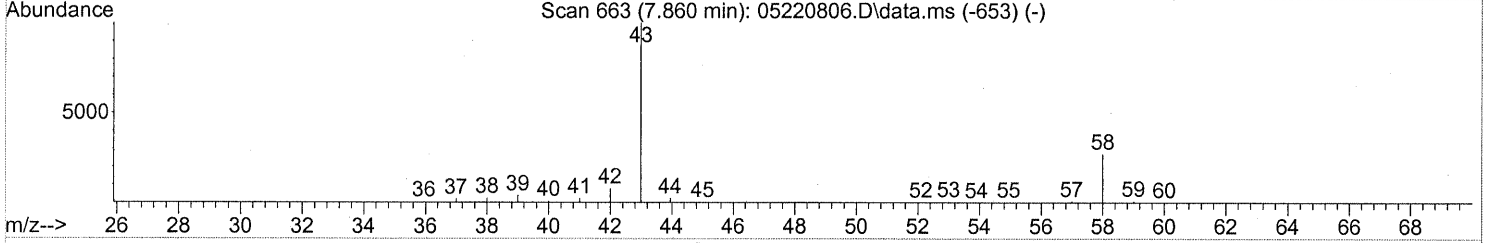
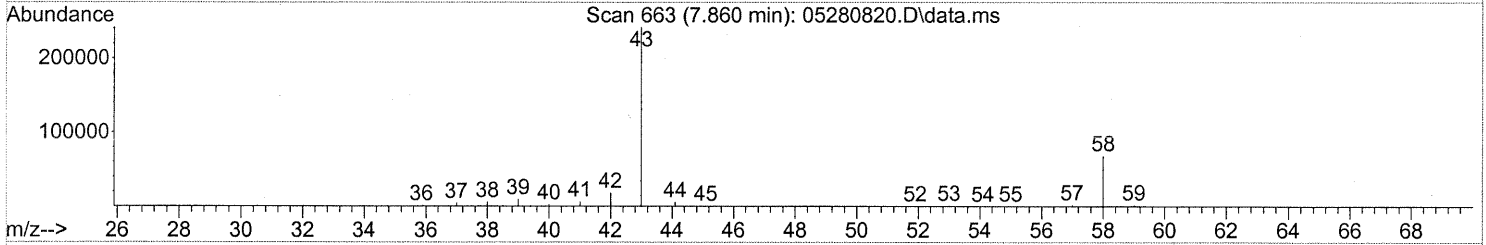
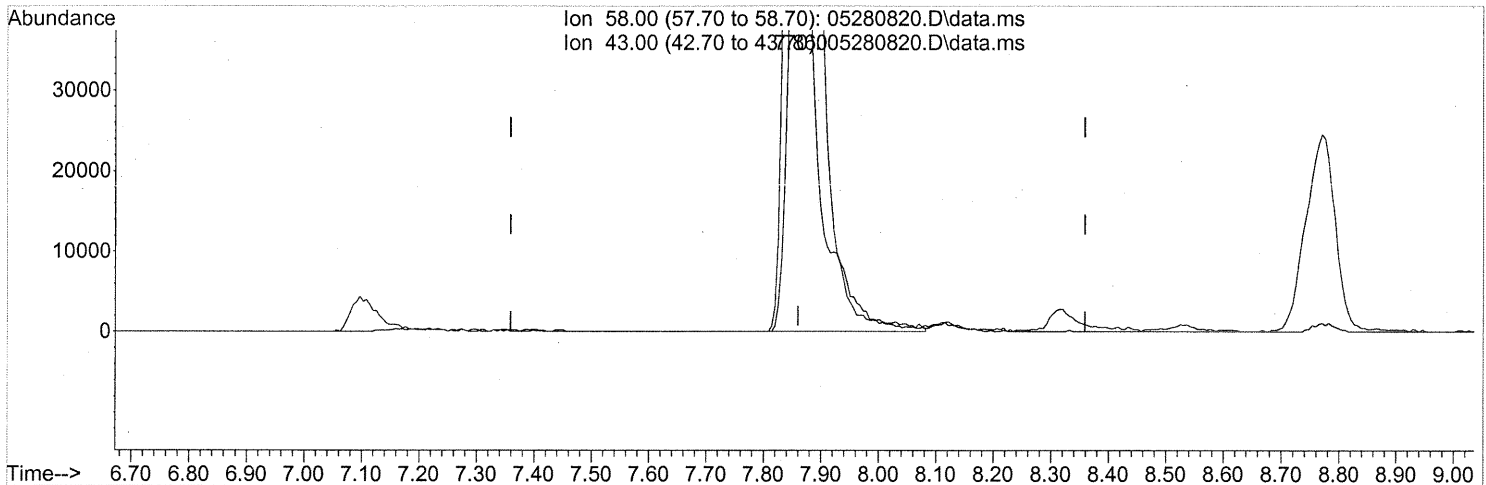
WA 5/31/08
P 06/12/08

1378

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 00:10
Operator : WA
Sample : P0801483-029 (1000ml)
Misc : ENSR SG17B-05 (-3.3, 3.9)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.860min (-0.000) 13.15ng

response 217119

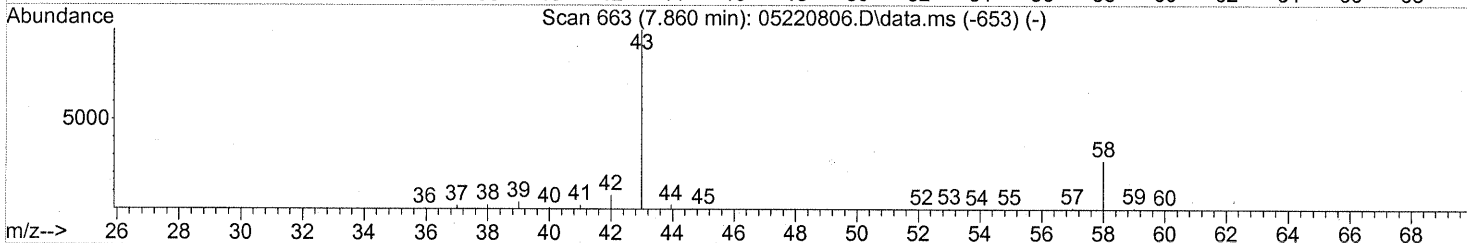
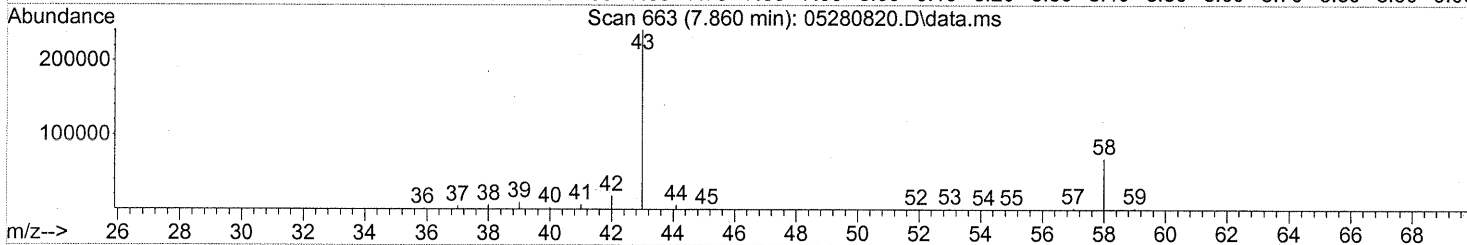
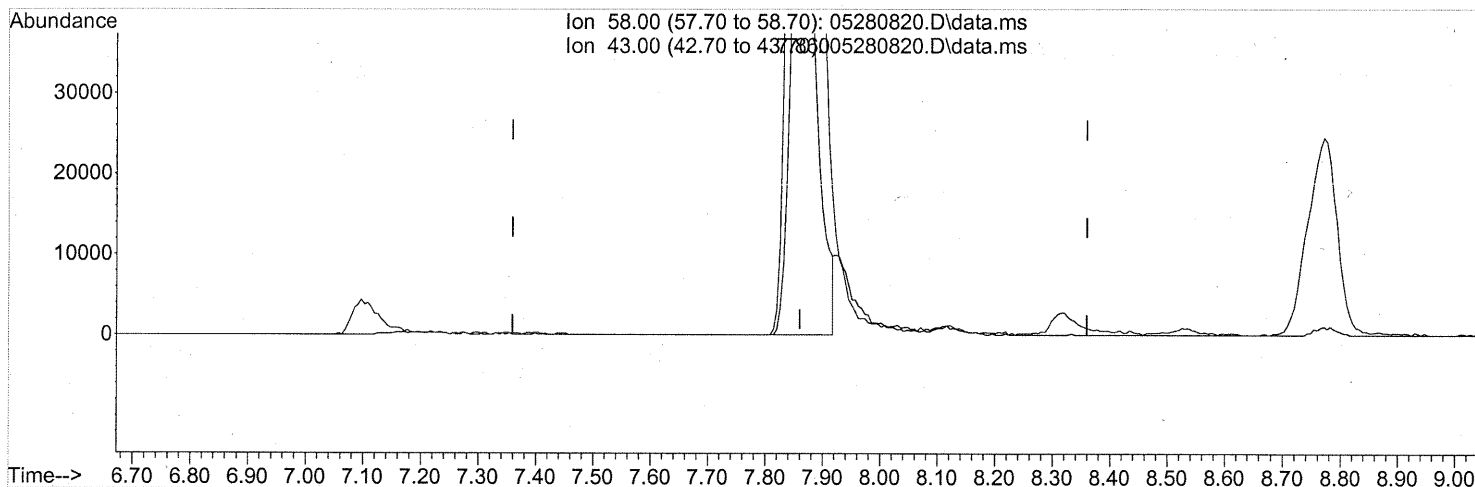
| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 320.52# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

interf. shoulder

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(13) Acetone (T)

7.860min (-0.000) 11.55ng m

response 190660

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 365.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

No shoulder

DA 5/31/08

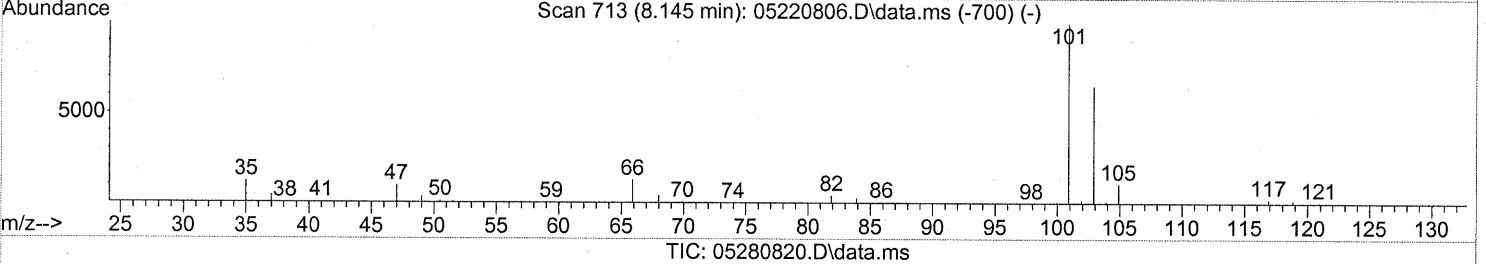
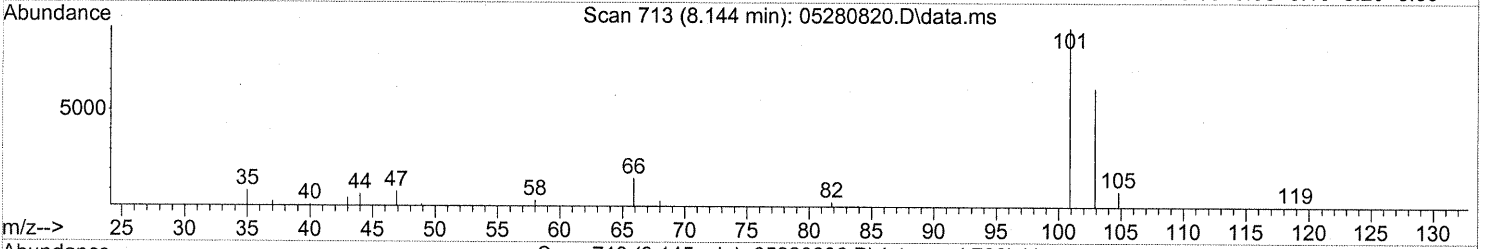
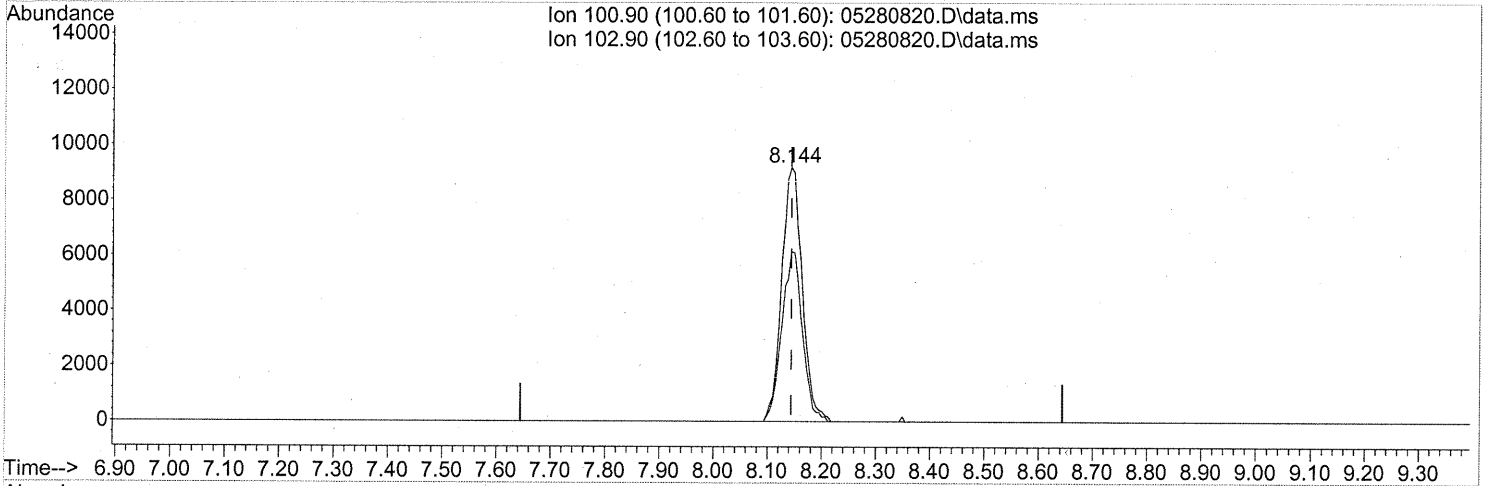
P 6/12/08

1380

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.63ng

response 24079

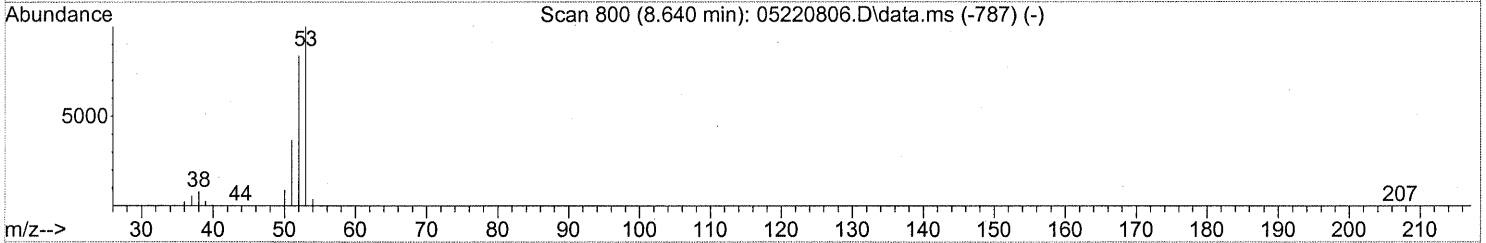
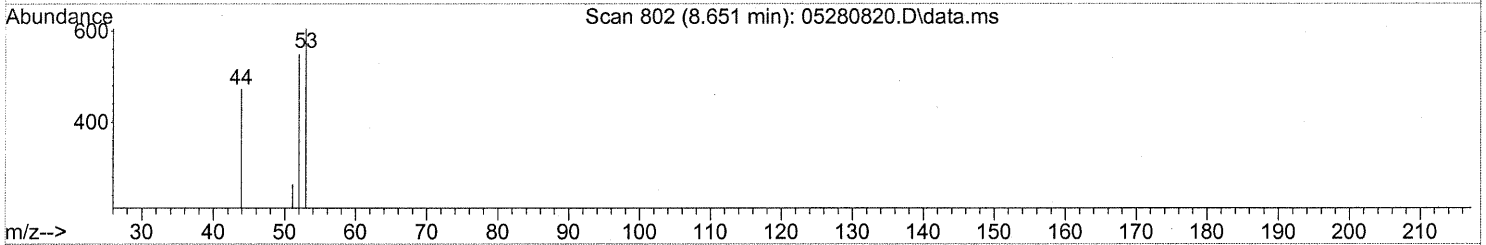
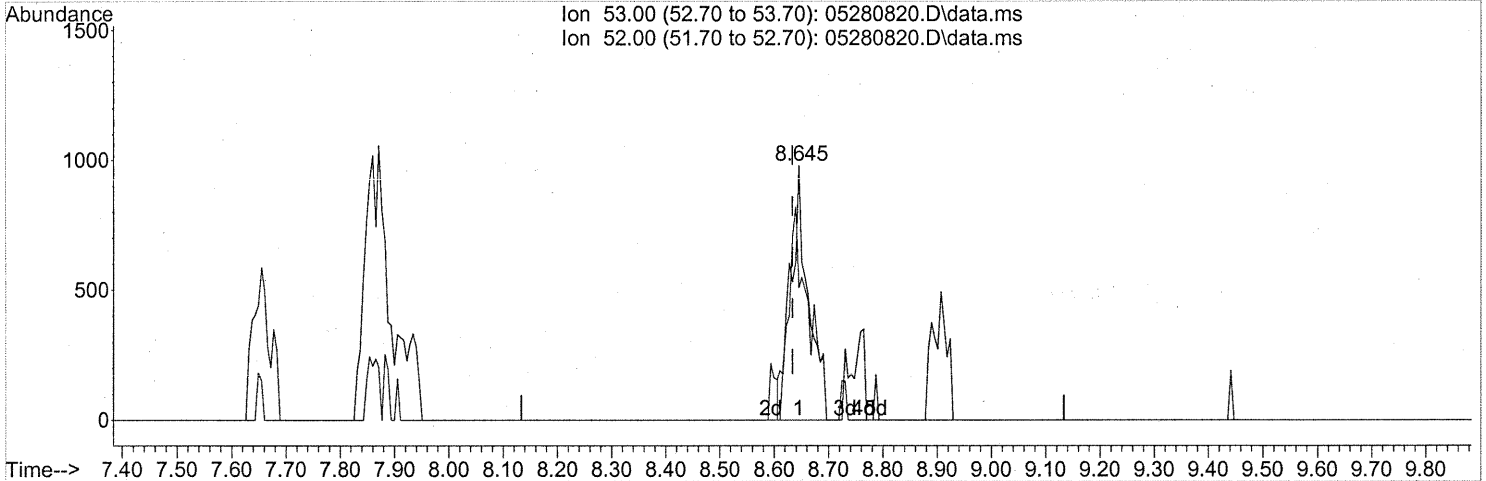
| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 67.09 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1381

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(16) Acrylonitrile (T)

8.645min (+0.011) 0.09ng

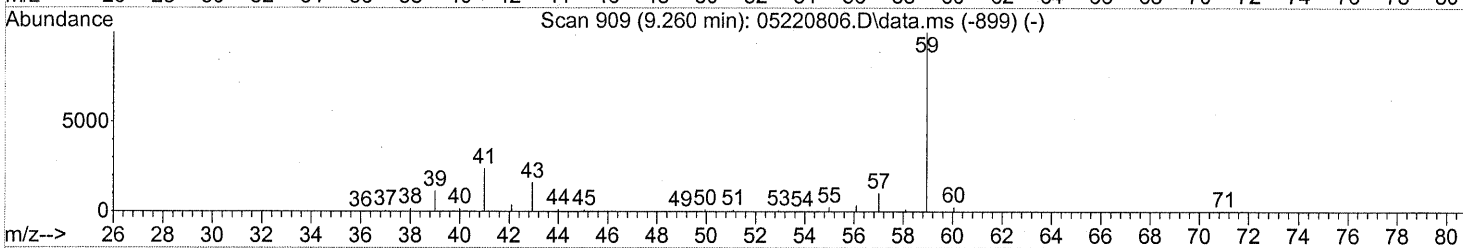
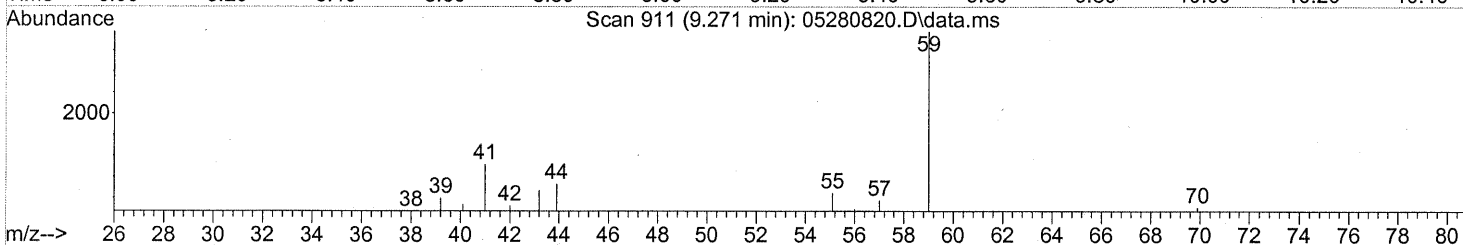
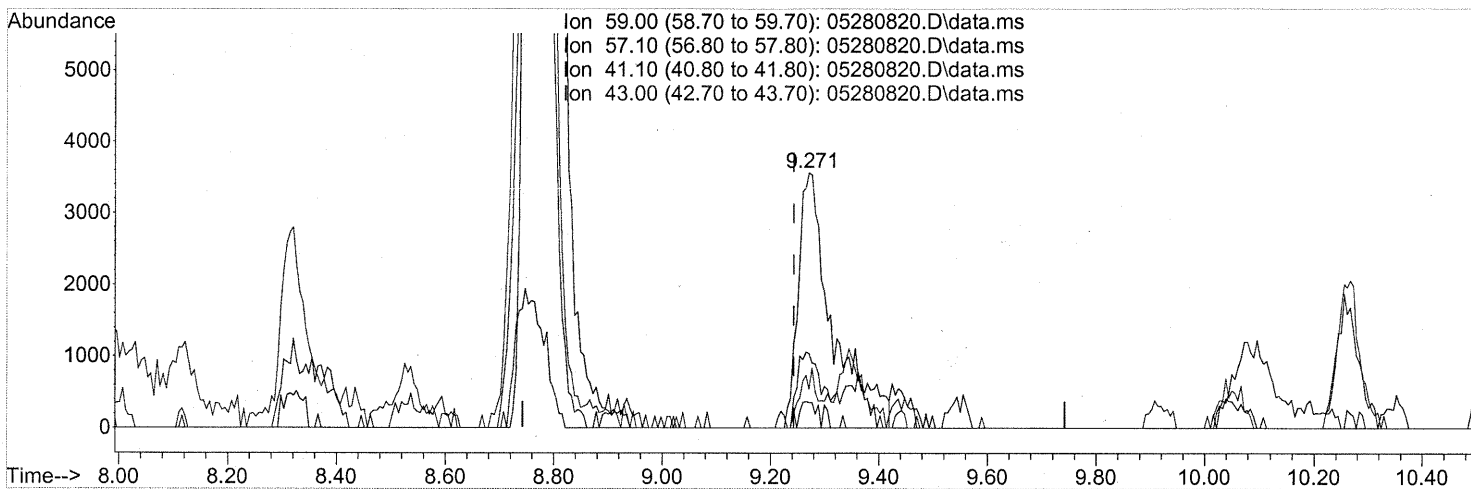
response 2254

| Ion | Exp% | Act% |
|-------|-------|-------|
| 53.00 | 100 | 100 |
| 52.00 | 82.50 | 90.64 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.271min (+0.028) 0.35ng
 response 15678

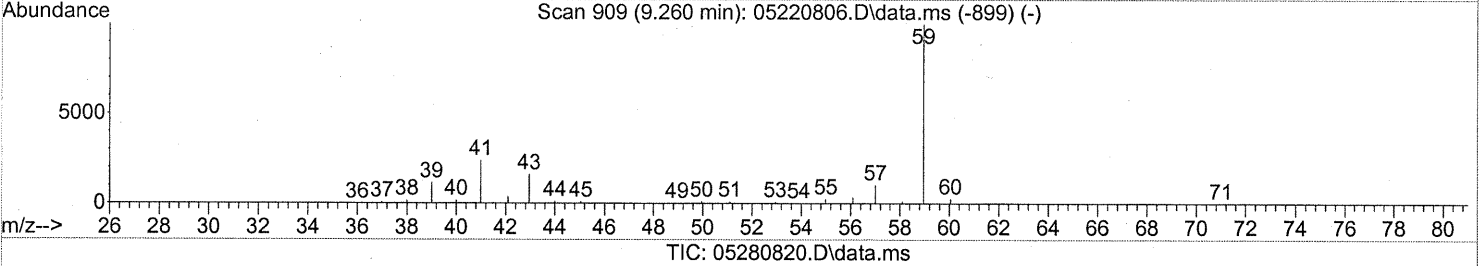
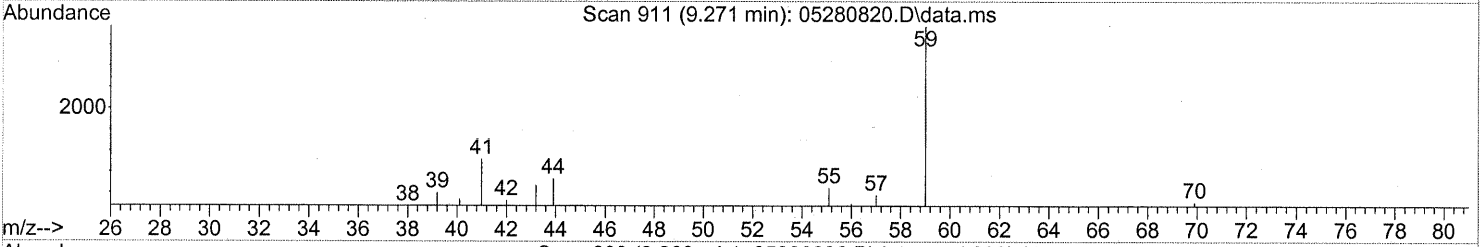
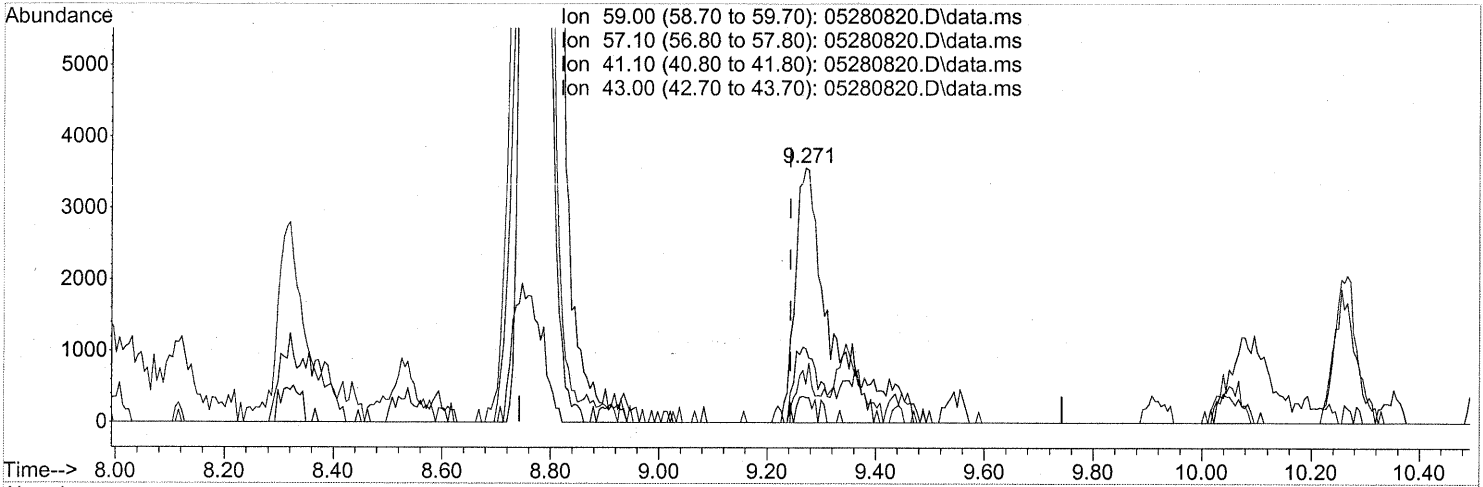
| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 5.23 |
| 41.10 | 20.10 | 21.48 |
| 43.00 | 12.30 | 13.47 |

tailing

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.271min (+0.028) 0.38ng m
 response 17135

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 4.79 |
| 41.10 | 20.10 | 19.66 |
| 43.00 | 12.30 | 12.33 |

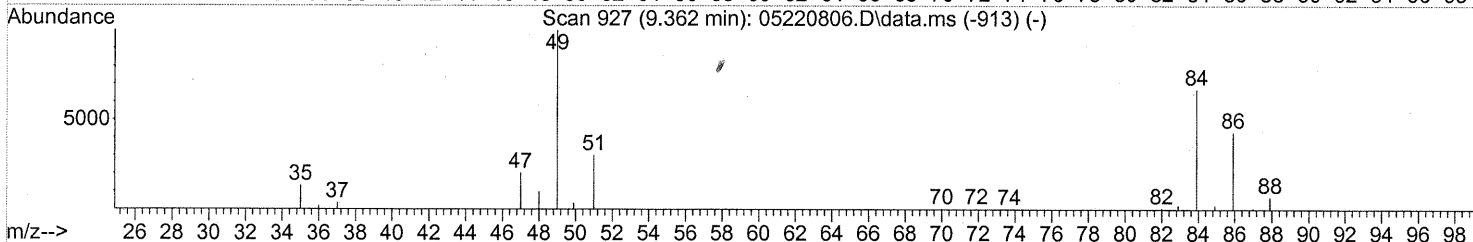
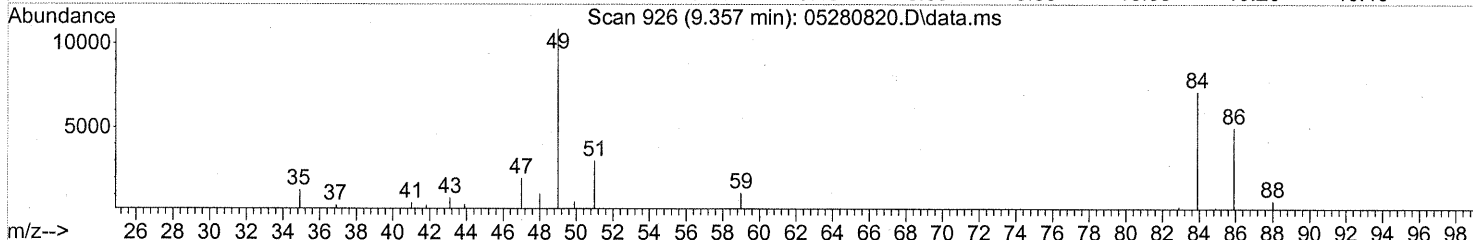
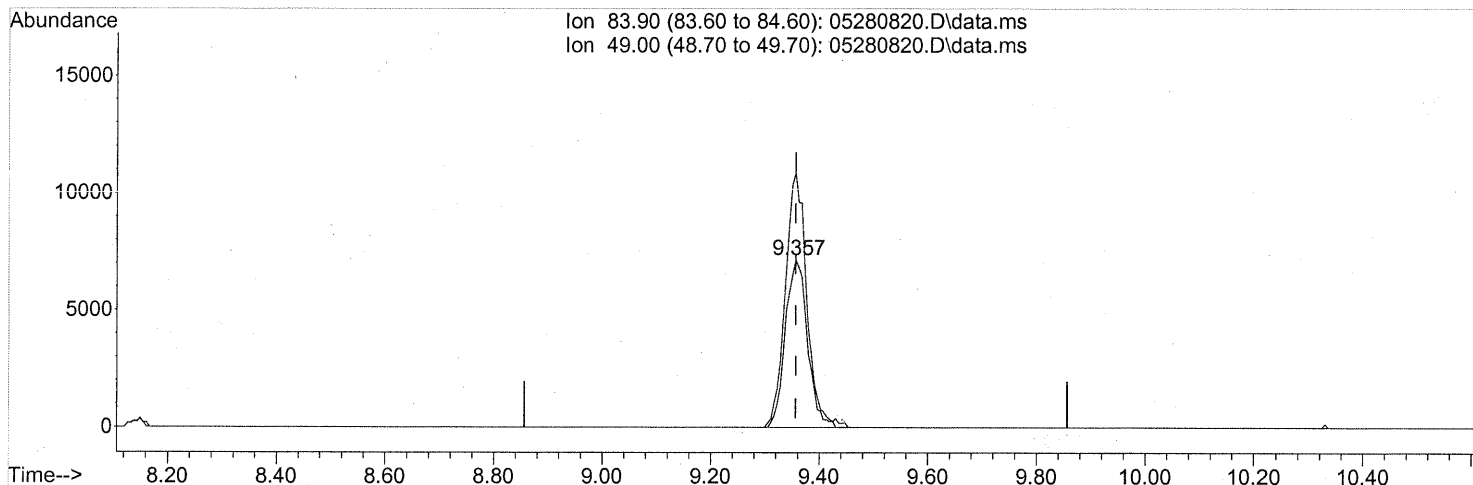
incl tailing

*WA 5/31/08
 P 06/12/08*

1384

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(19) Methylene Chloride (T)

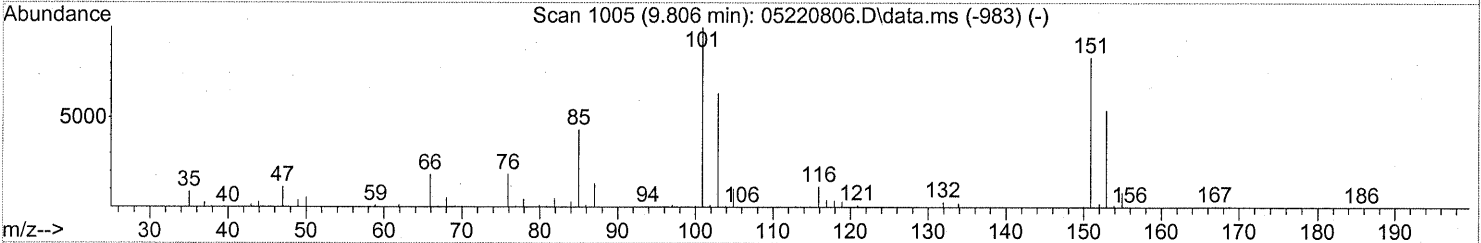
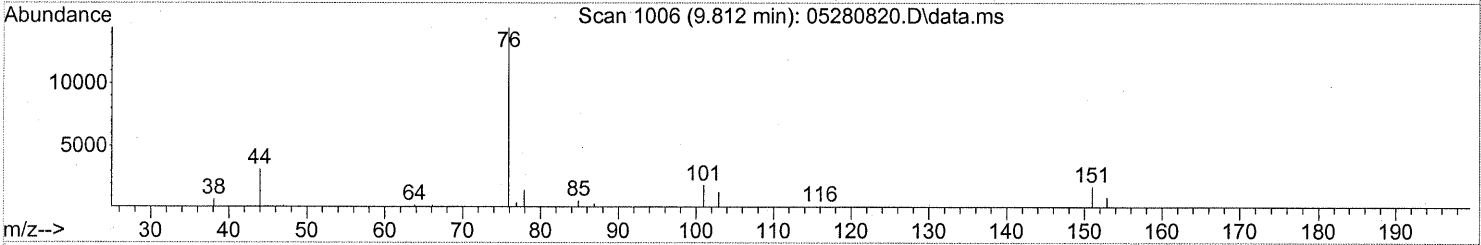
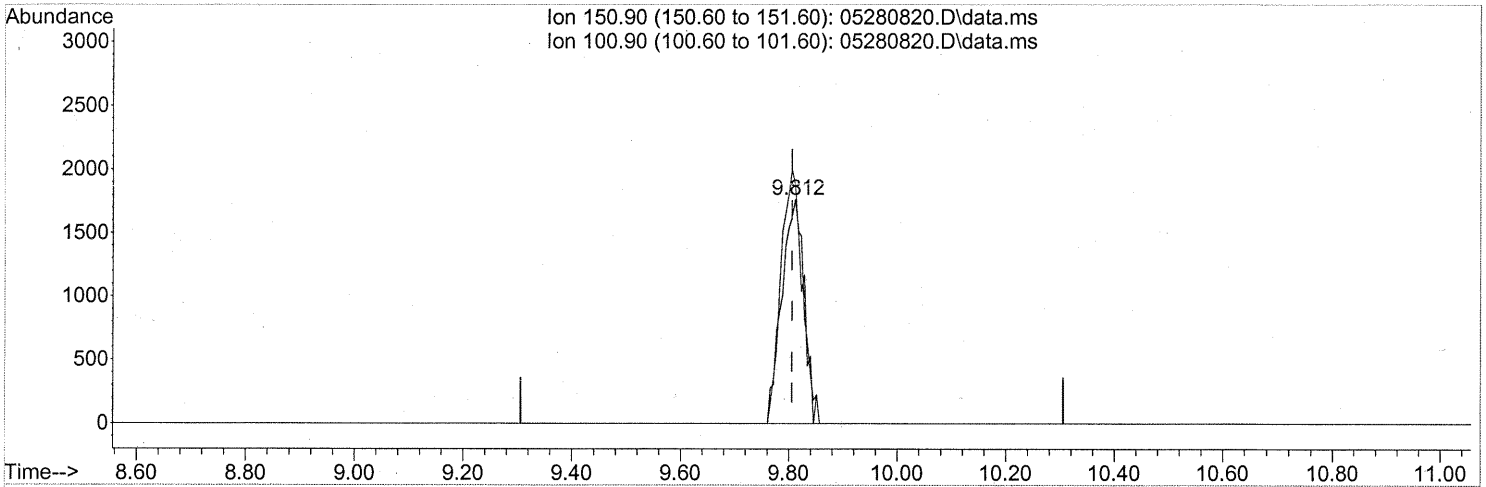
9.357min (-0.000) 1.09ng

response 20029

| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 147.70# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.005) 0.28ng

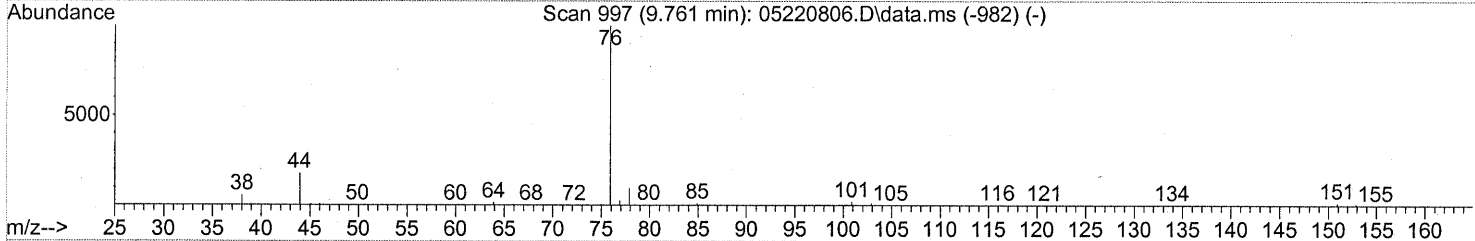
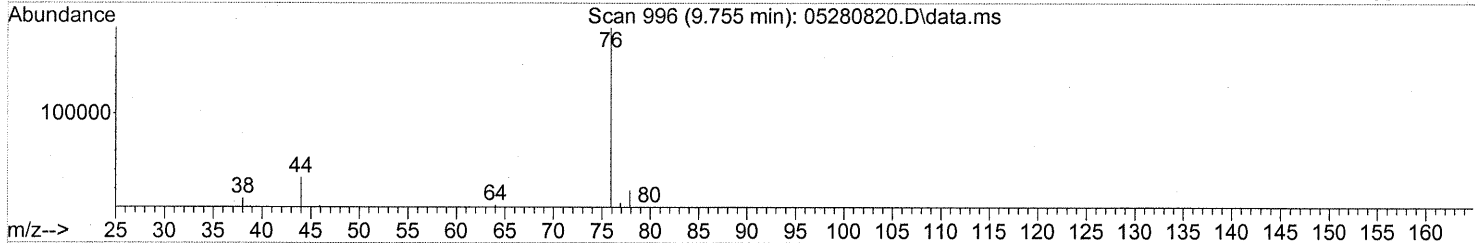
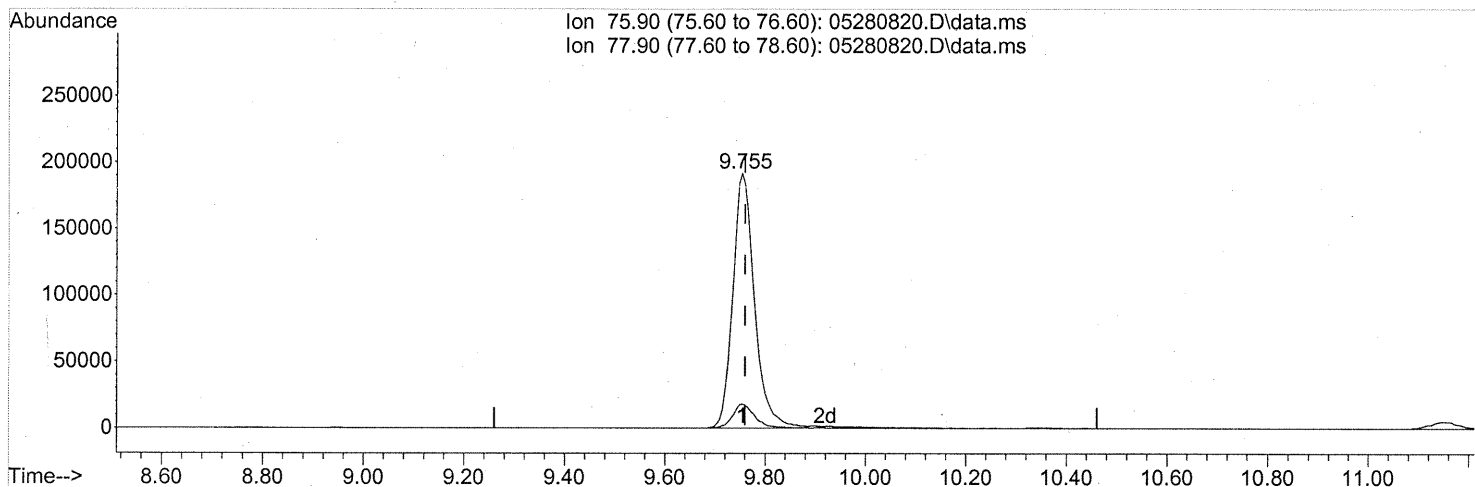
response 4930

| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 112.15 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(22) Carbon Disulfide (T)

9.755min (-0.006) 8.22ng

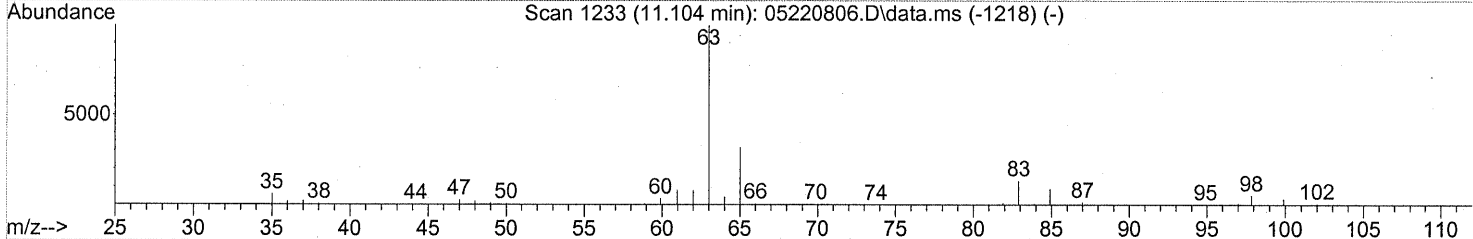
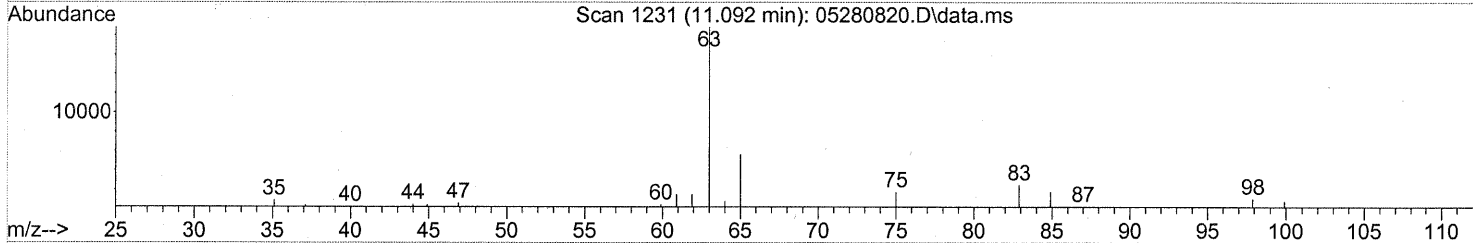
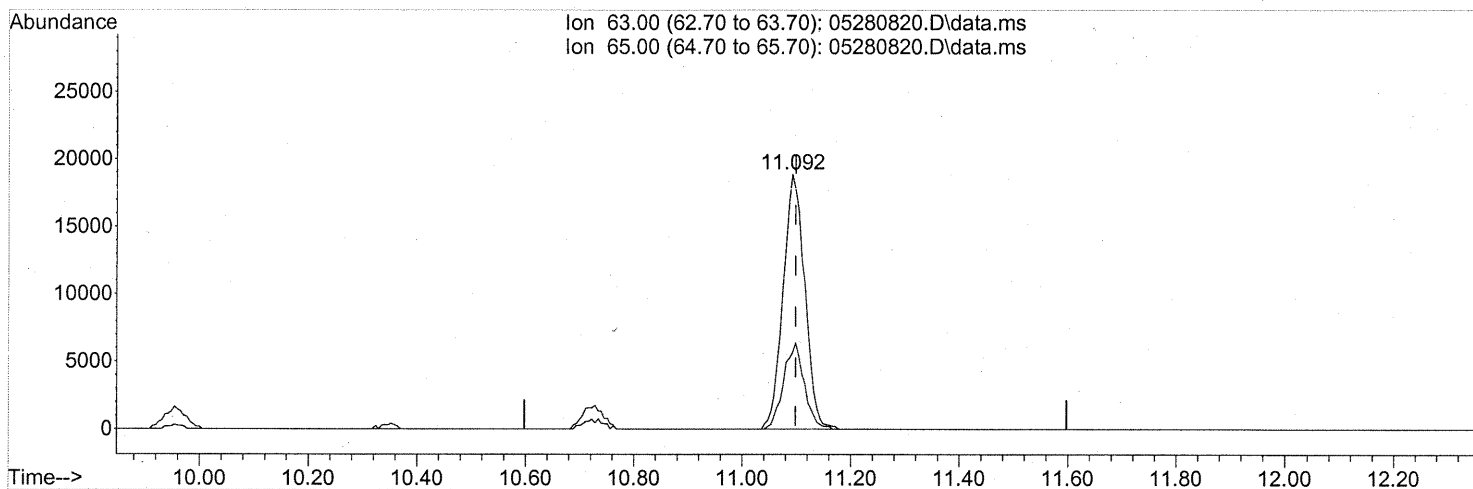
response 575317

| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 9.36 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1387

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(24) 1,1-Dichloroethane (T)

11.092min (-0.006) 1.62ng

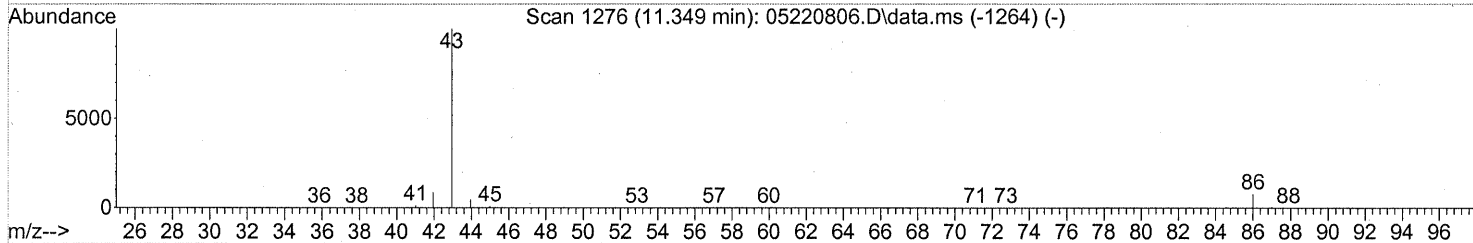
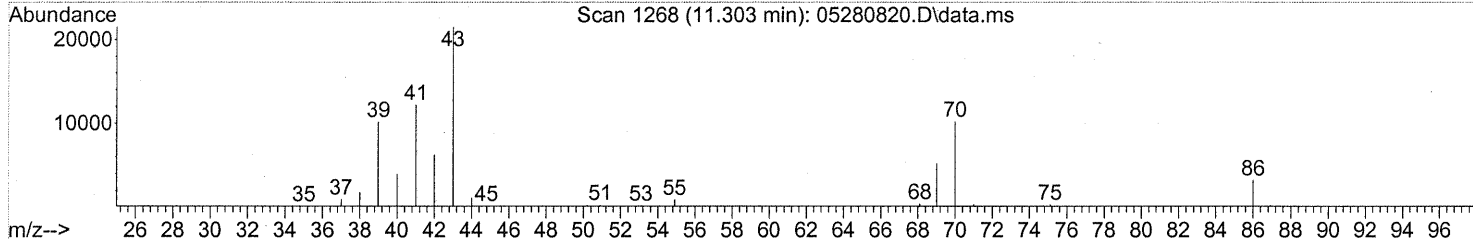
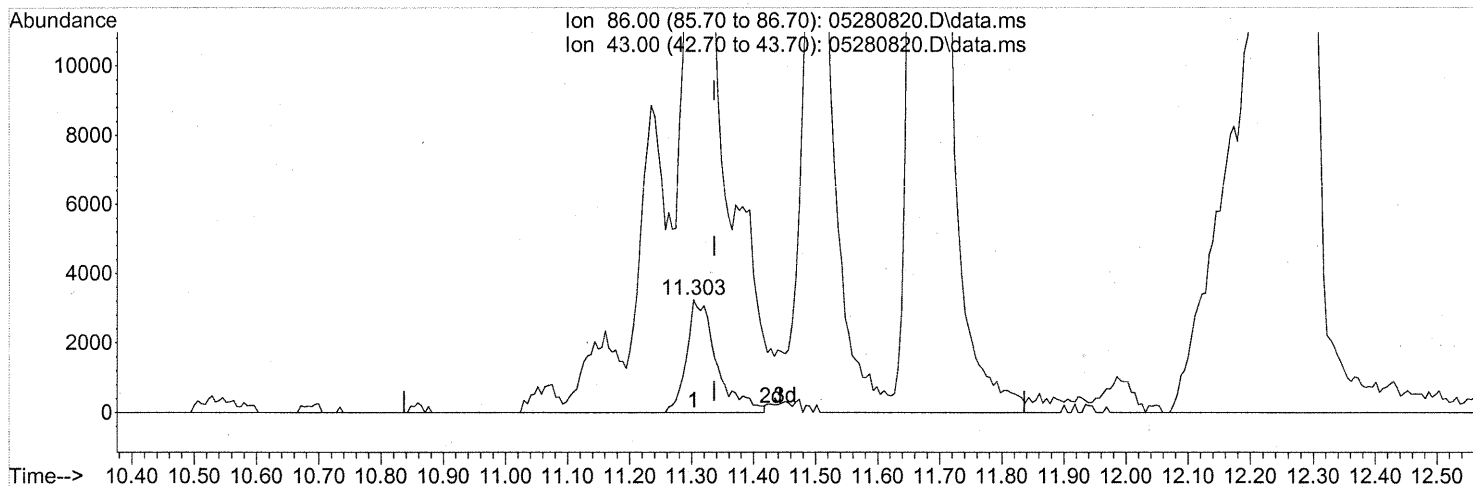
response 51944

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 65.00 | 29.10 | 32.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.303min (-0.034) 3.56ng

response 10860

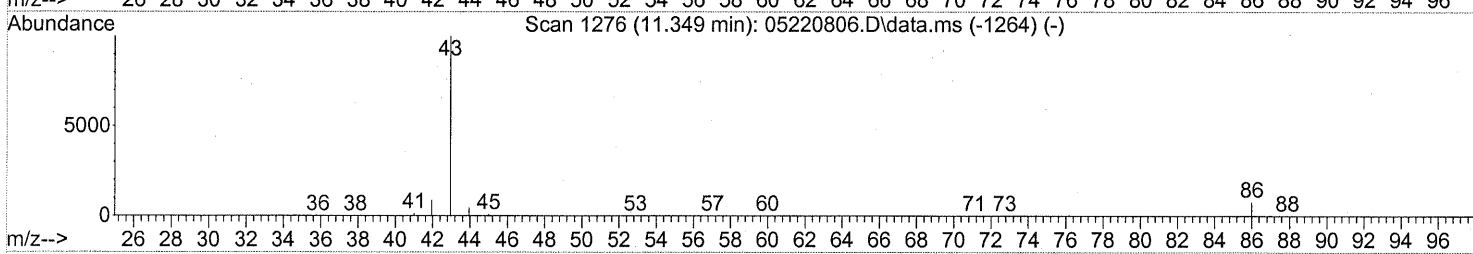
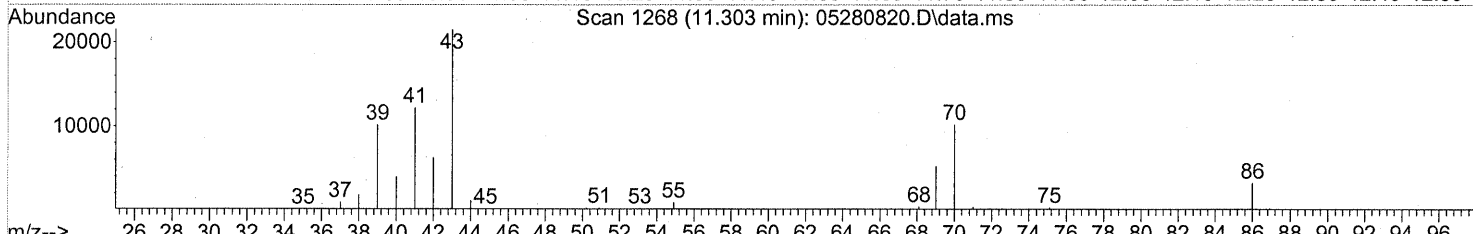
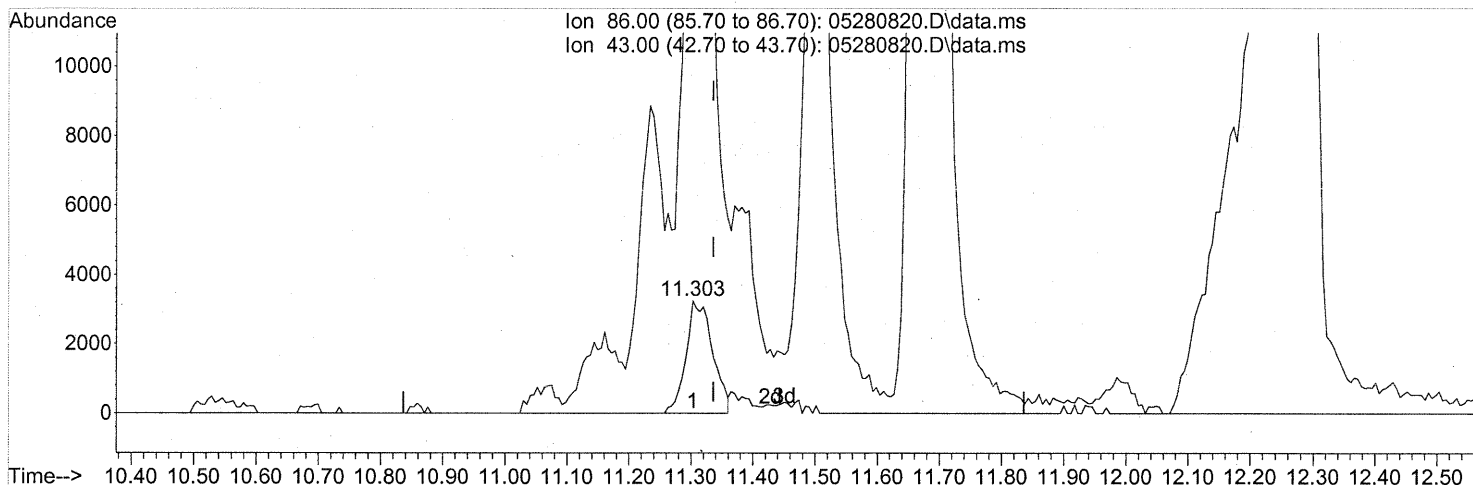
| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 835.36# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

trailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.303min (-0.034) 3.16ng m

response 9632

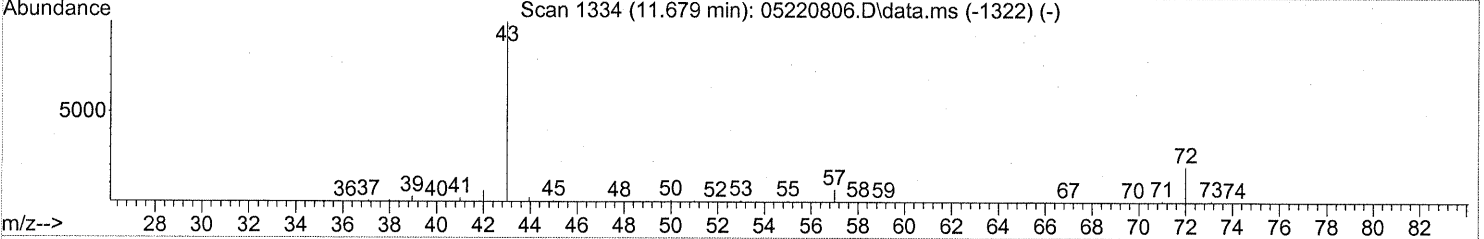
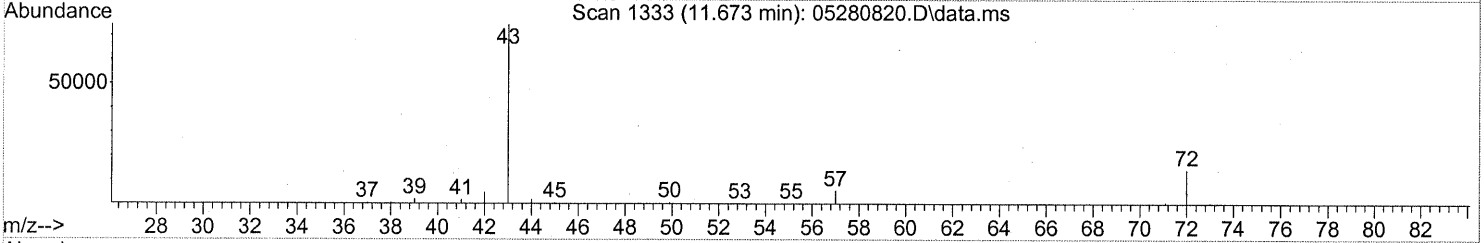
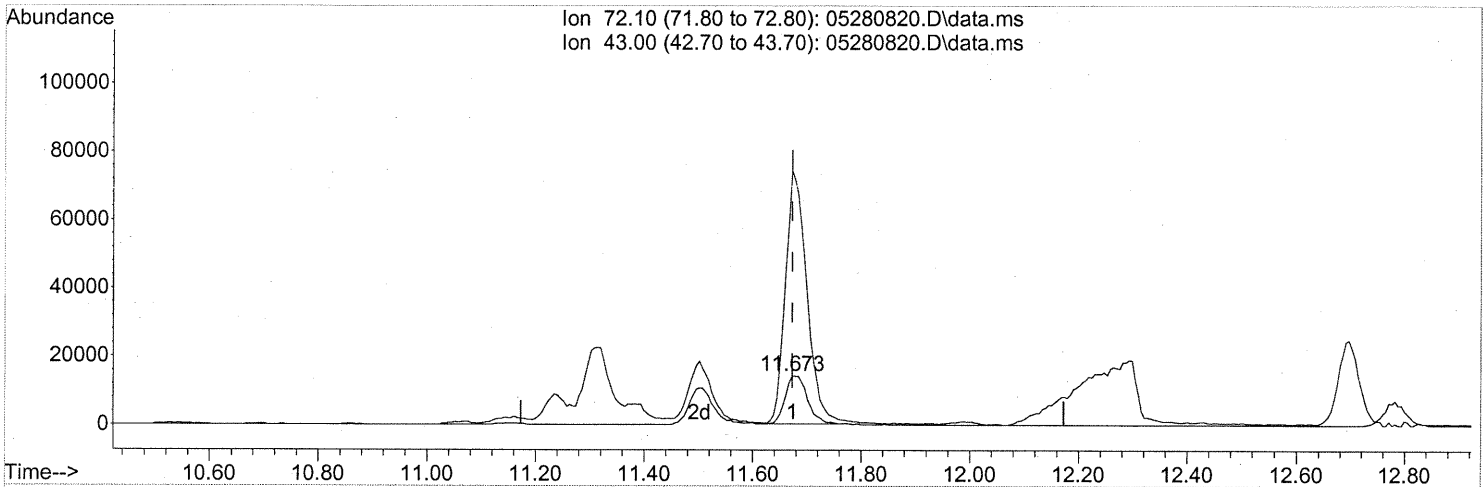
| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 941.86# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

10/10. tailing
5/31/08
706/521-8

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



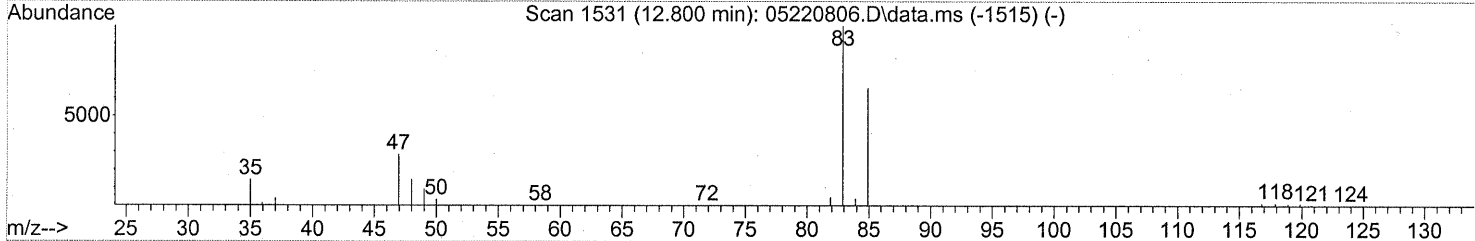
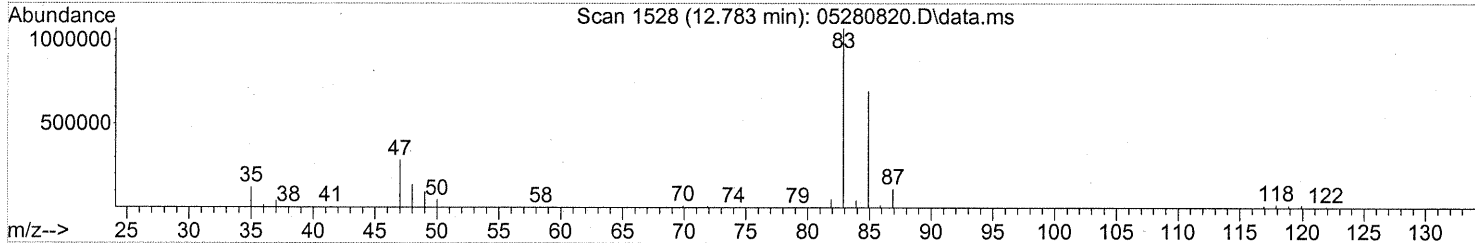
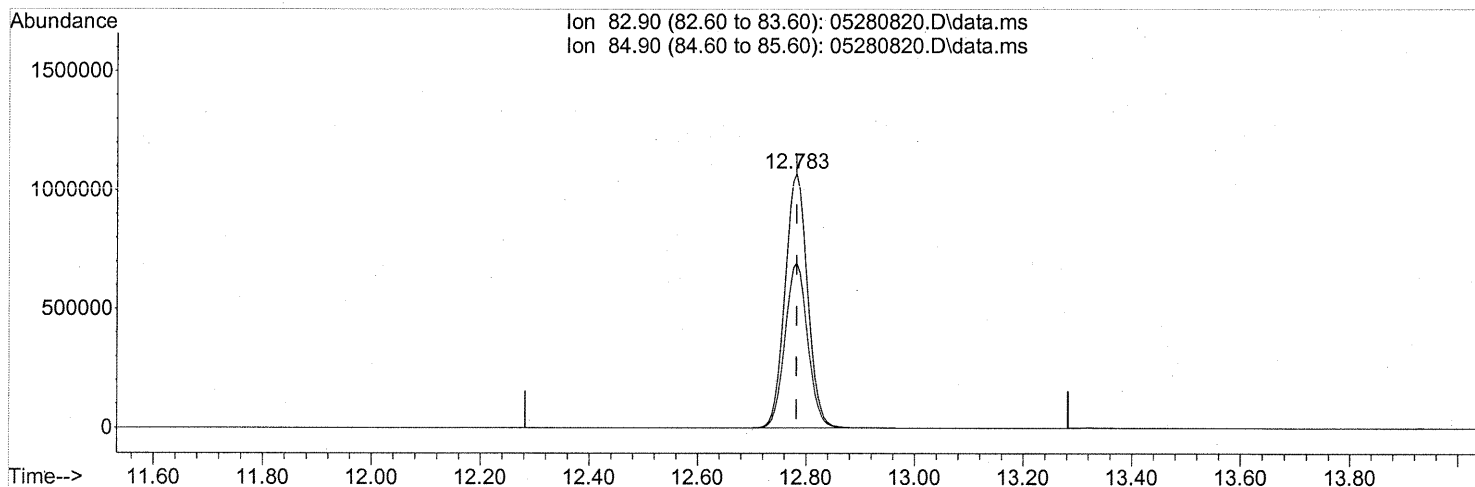
(27) 2-Butanone (T)
 11.673min (-0.000) 3.34ng
 response 40291

| Ion | Exp% | Act% |
|-------|--------|--------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 508.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 00:10
Operator : WA
Sample : P0801483-029 (1000ml)
Misc : ENSR SG17B-05 (-3.3, 3.9)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280820.D\data.ms

(32) Chloroform (T)

12.783min (-0.000) 109.31ng

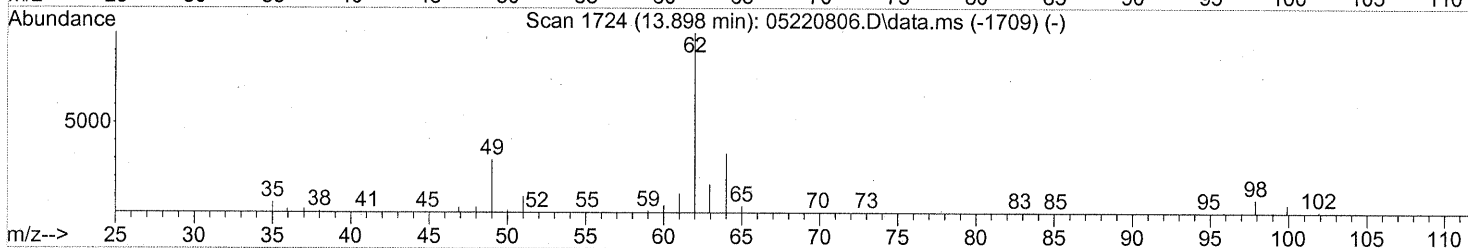
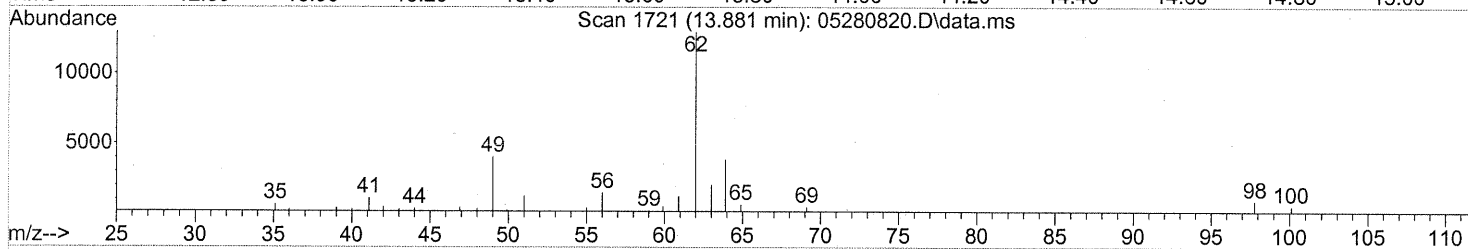
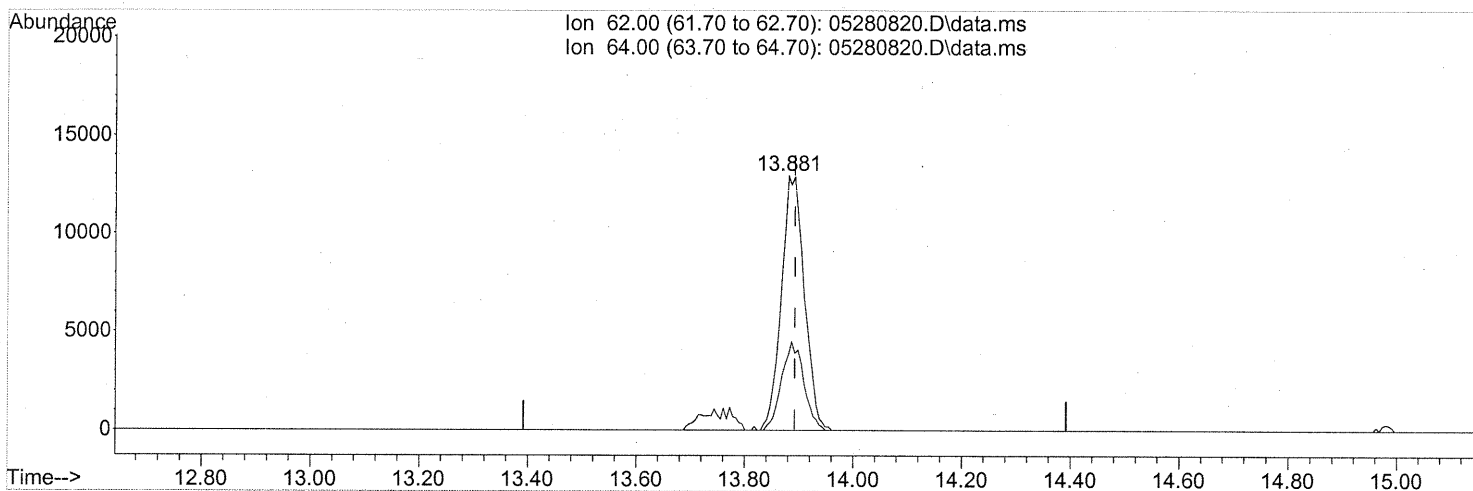
response 3056399

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 65.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 00:10
Operator : WA
Sample : P0801483-029 (1000ml)
Misc : ENSR SG17B-05 (-3.3, 3.9)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:16:06 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280820.D\data.ms

(36) 1,2-Dichloroethane (T)

13.881min (-0.012) 1.40ng

response 37788

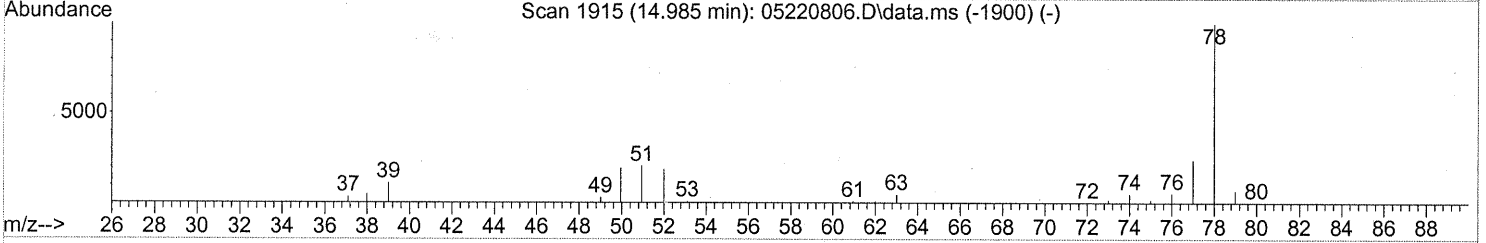
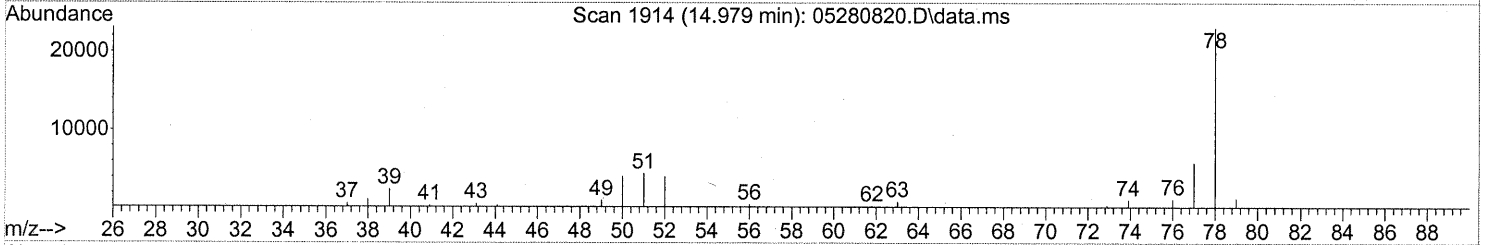
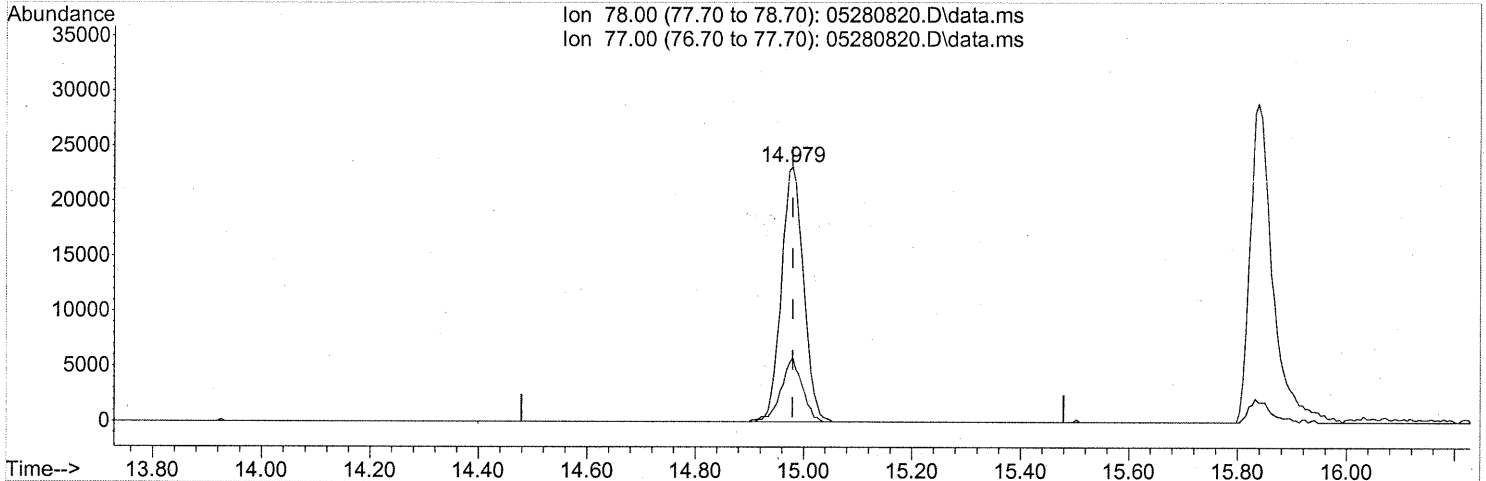
| Ion | Exp% | Act% |
|-------|-------|-------|
| 62.00 | 100 | 100 |
| 64.00 | 30.90 | 33.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1393

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

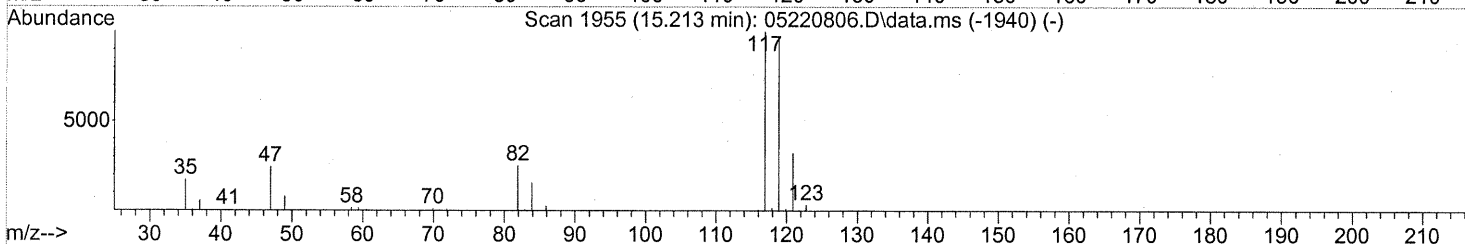
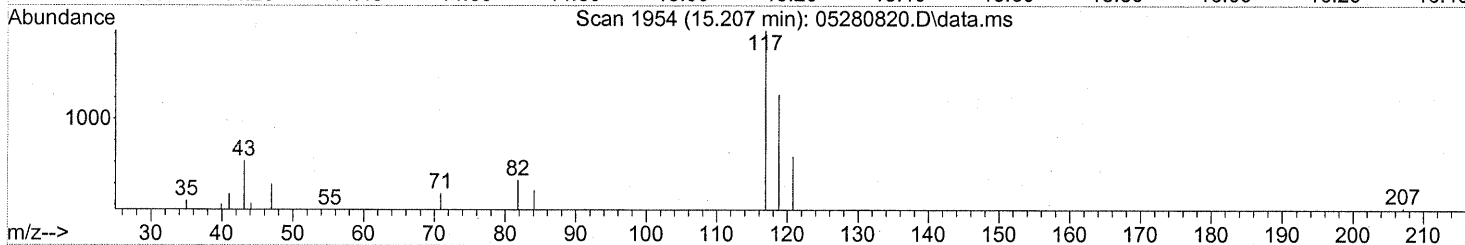
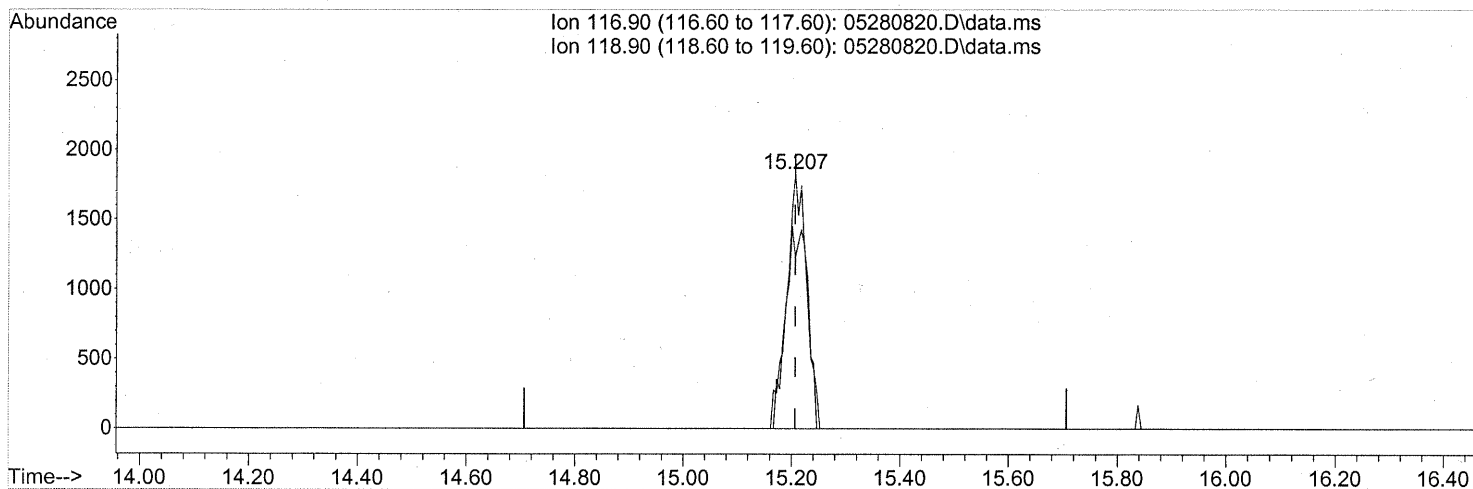
(41) Benzene (T)
 14.979min (-0.000) 0.95ng
 response 65305

| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 24.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1394

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.17ng

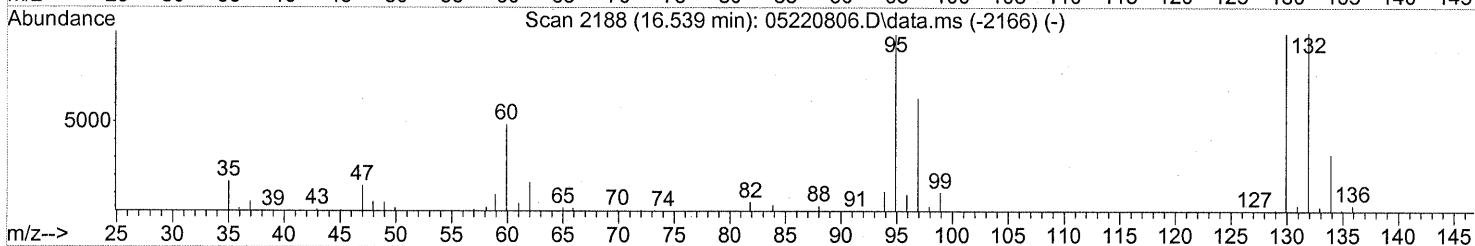
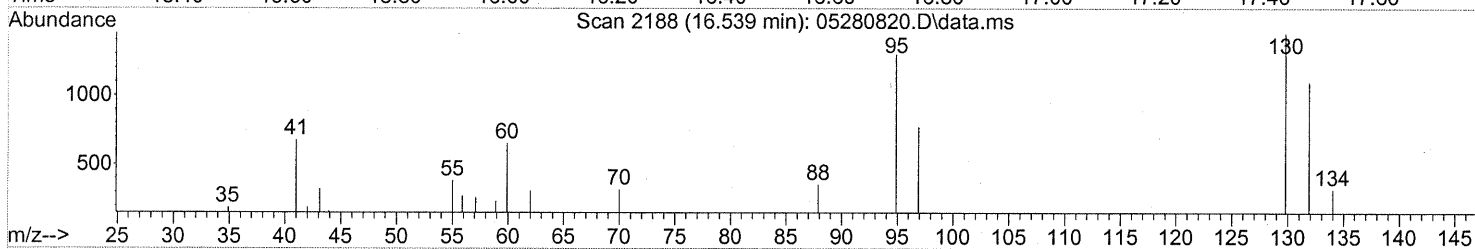
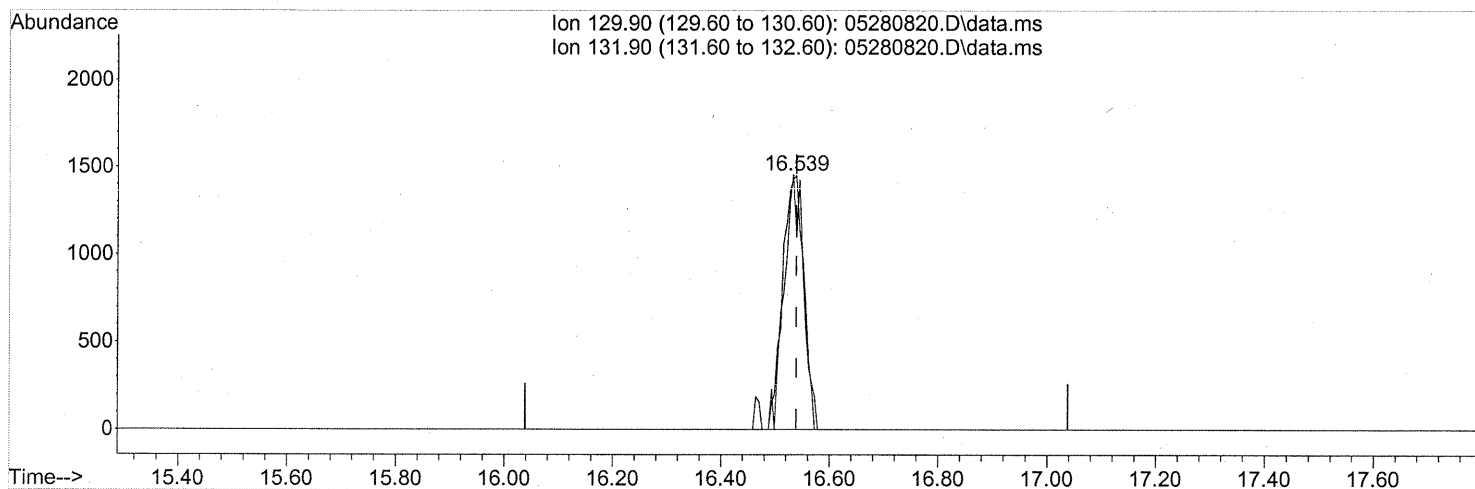
response 4523

| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 93.08 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

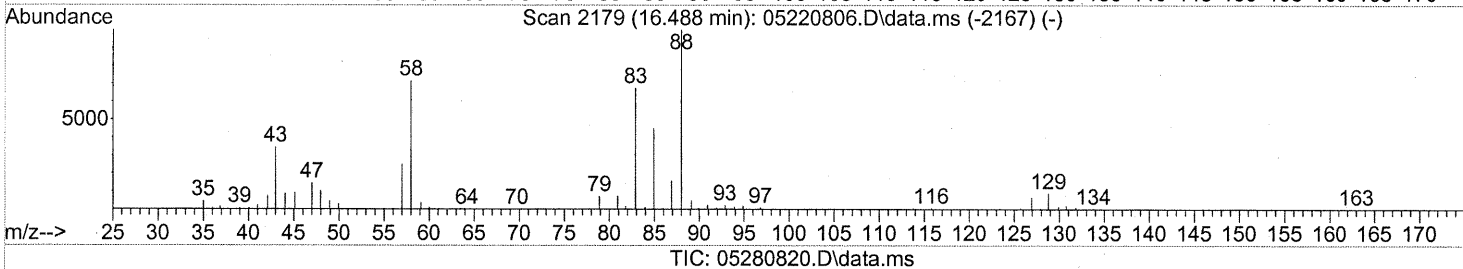
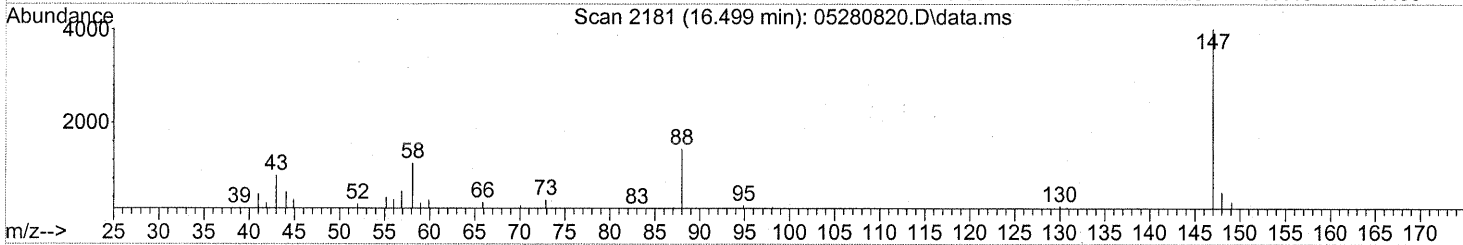
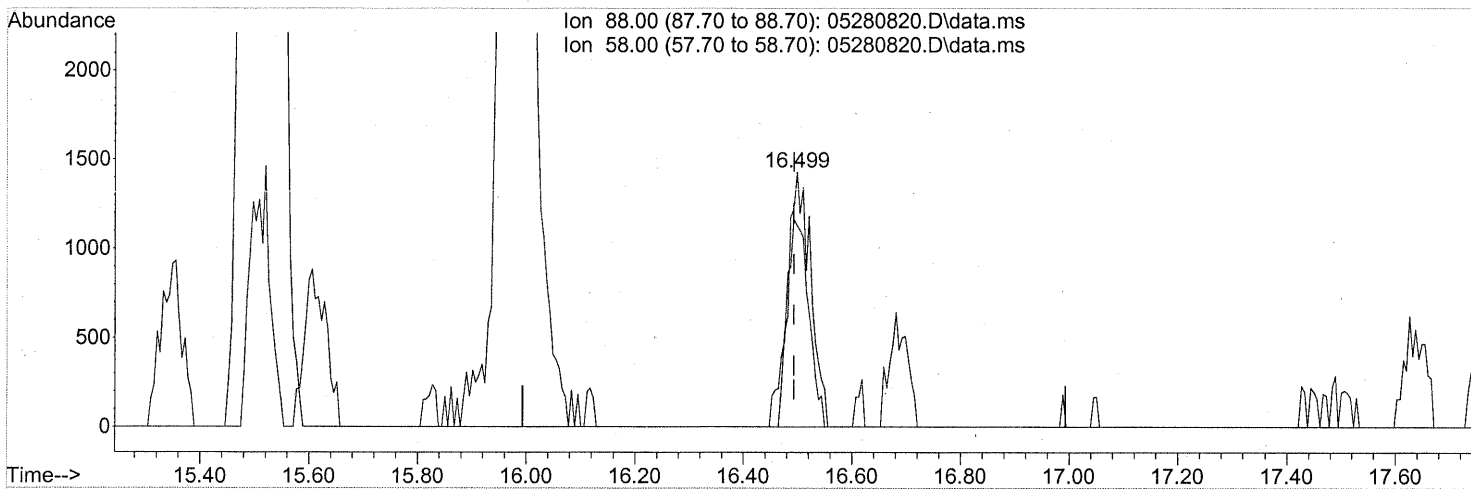
(47) Trichloroethene (T)
 16.539min (-0.000) 0.18ng
 response 3871

| Ion | Exp% | Act% |
|--------|--------|-------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 93.49 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1396

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

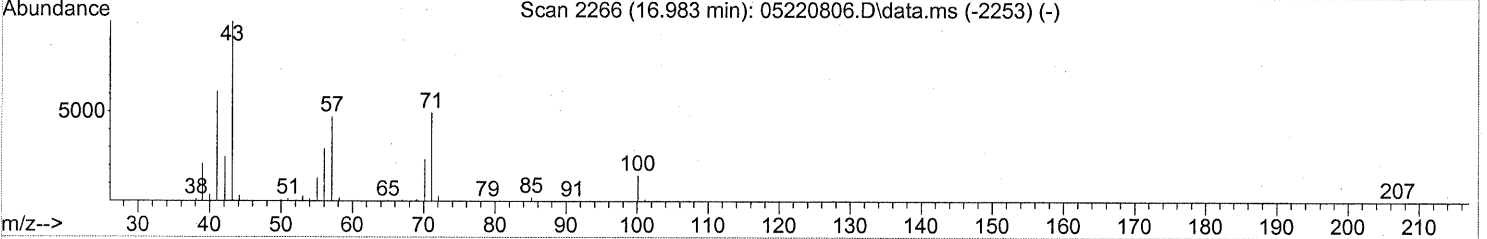
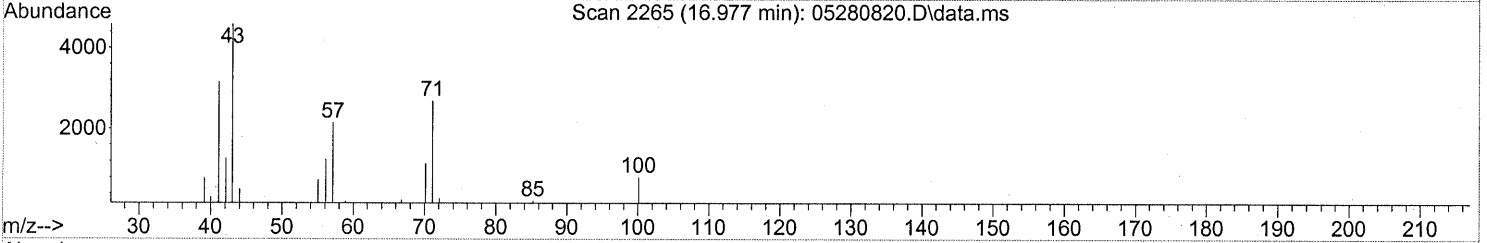
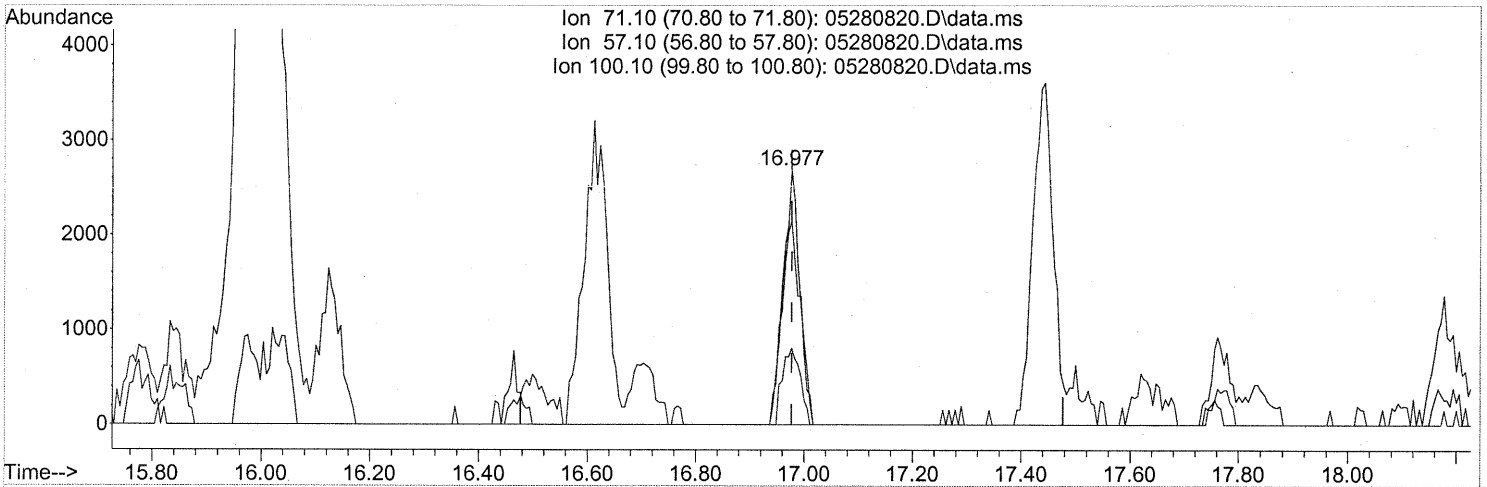


(48) 1,4-Dioxane (T)
 16.499min (+0.006) 0.31ng
 response 4015

| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 86.40 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



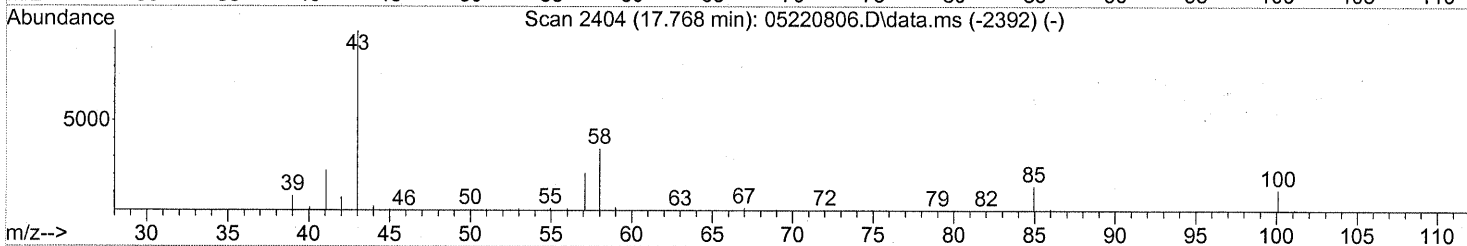
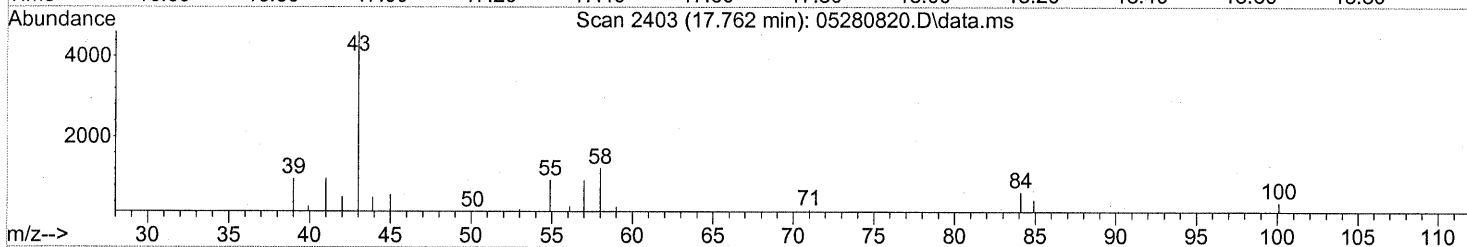
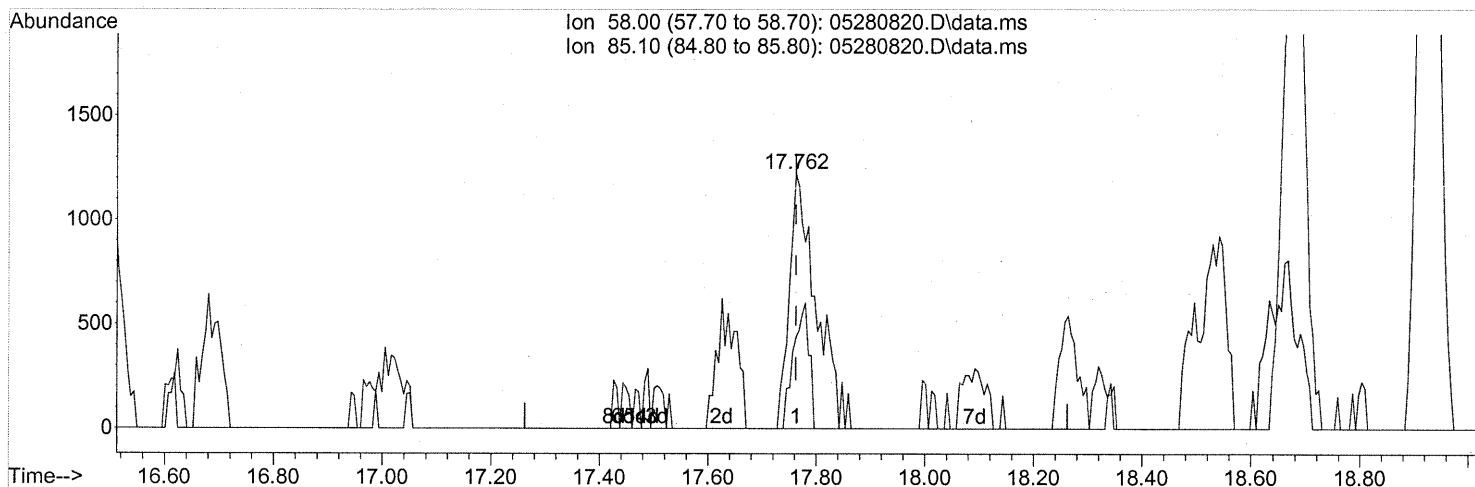
(51) n-Heptane (T)
 16.977min (-0.000) 0.31ng
 response 5716

| Ion | Exp% | Act% |
|--------|--------|--------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 87.79# |
| 100.10 | 30.10 | 32.02 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.762min (-0.000) 0.22ng

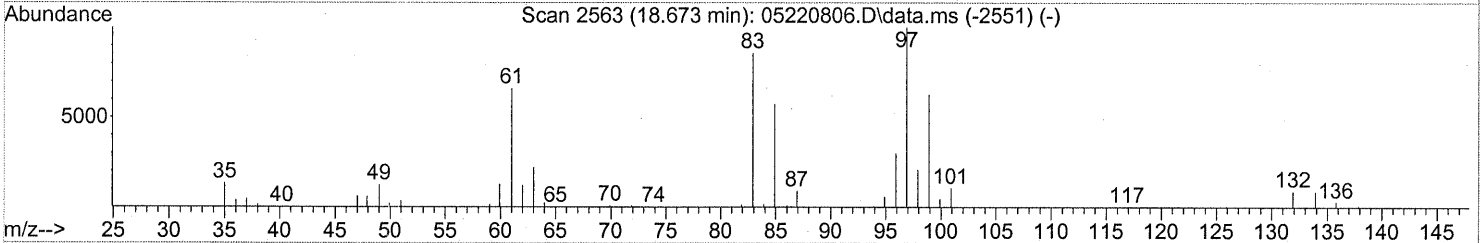
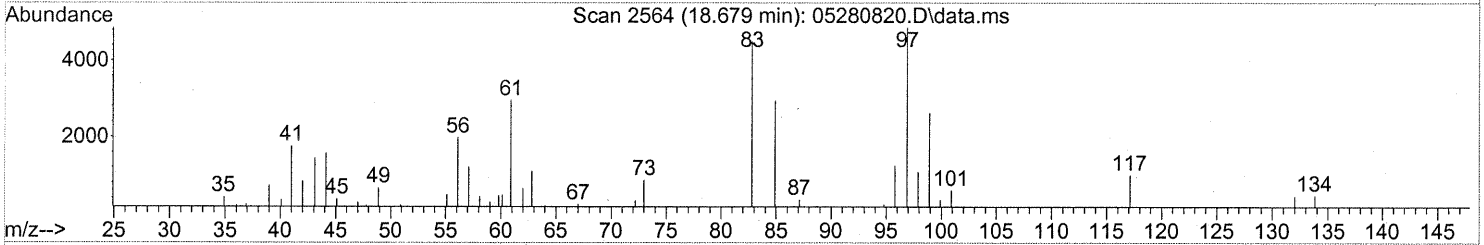
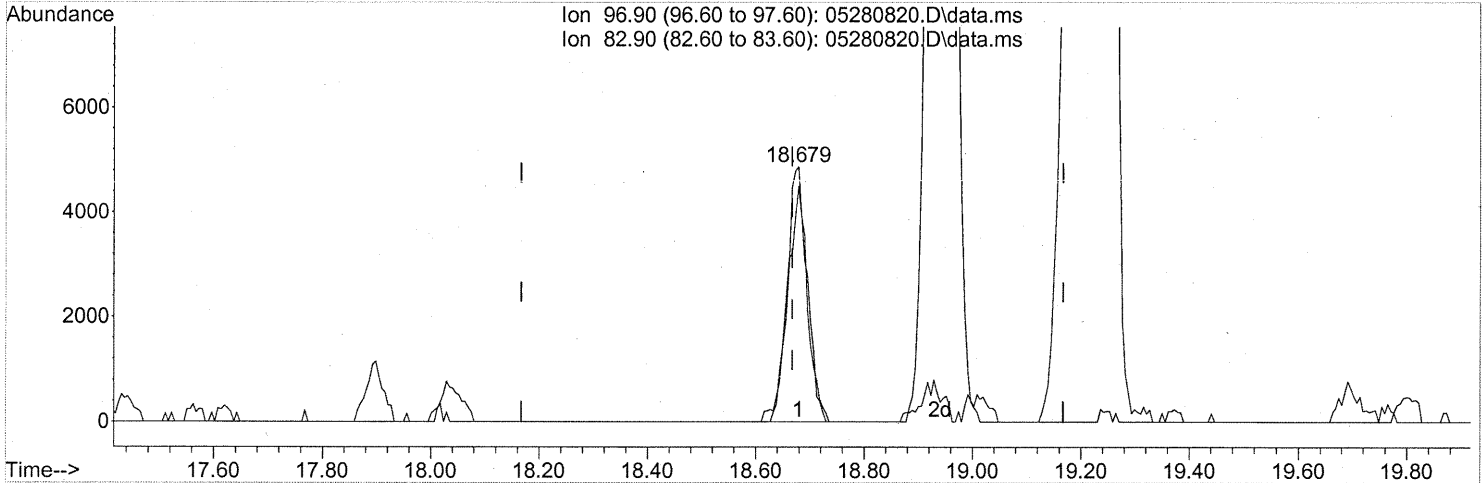
response 4071

| Ion | Exp% | Act% |
|-------|-------|-------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 29.40 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.679min (+0.011) 0.73ng

response 12317

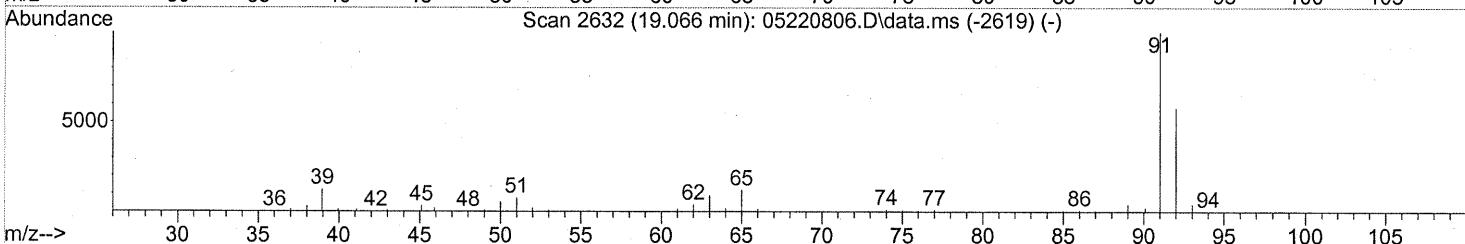
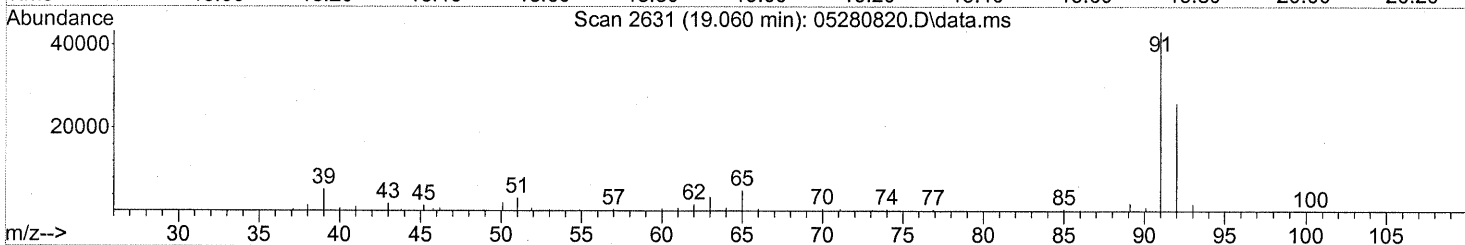
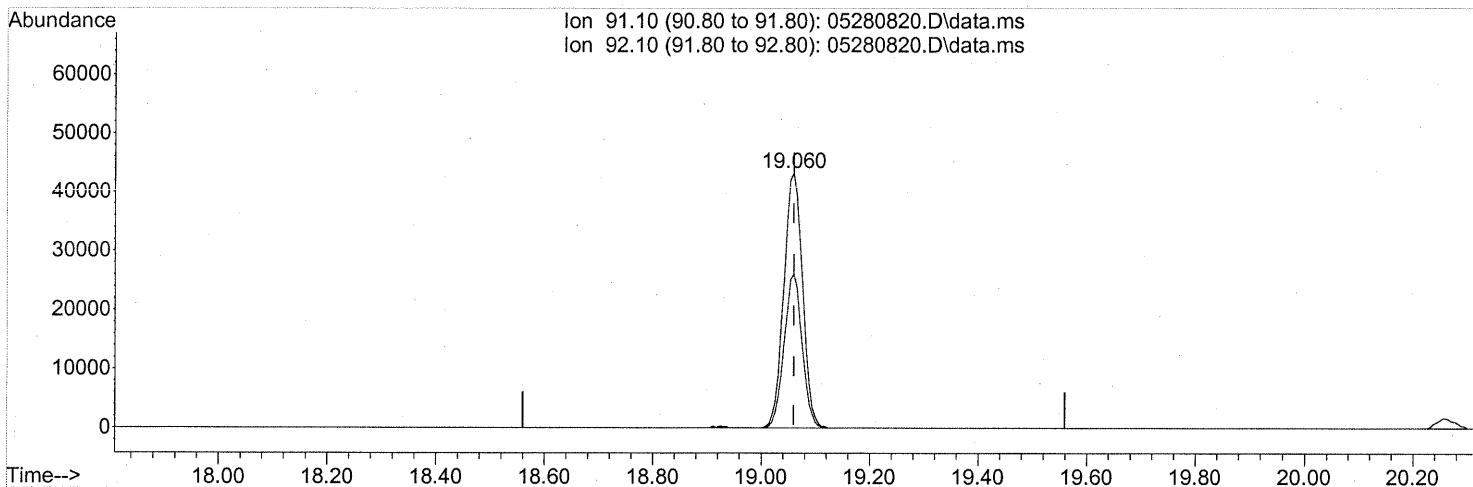
| Ion | Exp% | Act% |
|-------|-------|-------|
| 96.90 | 100 | 100 |
| 82.90 | 84.80 | 95.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1400

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(58) Toluene (T)
 19.060min (-0.000) 1.36ng
 response 102811

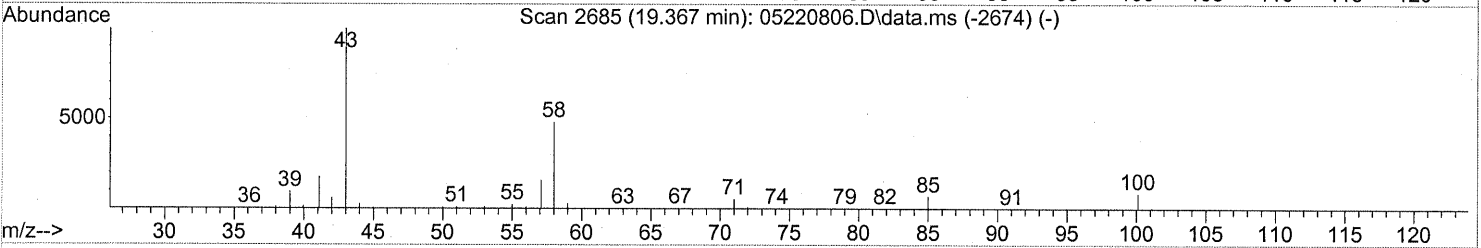
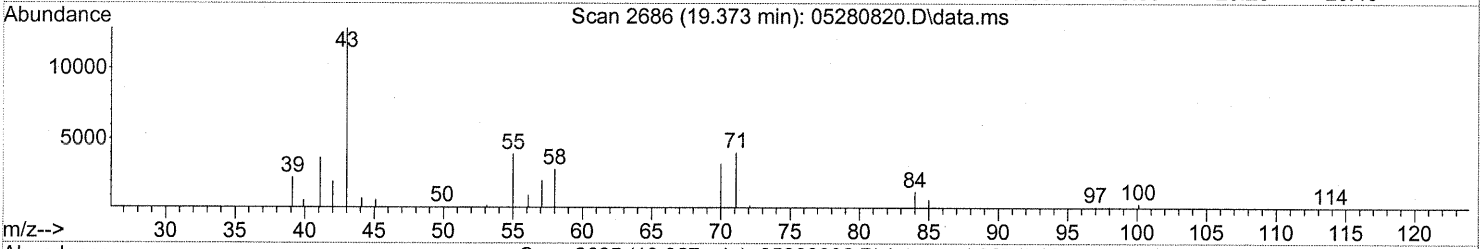
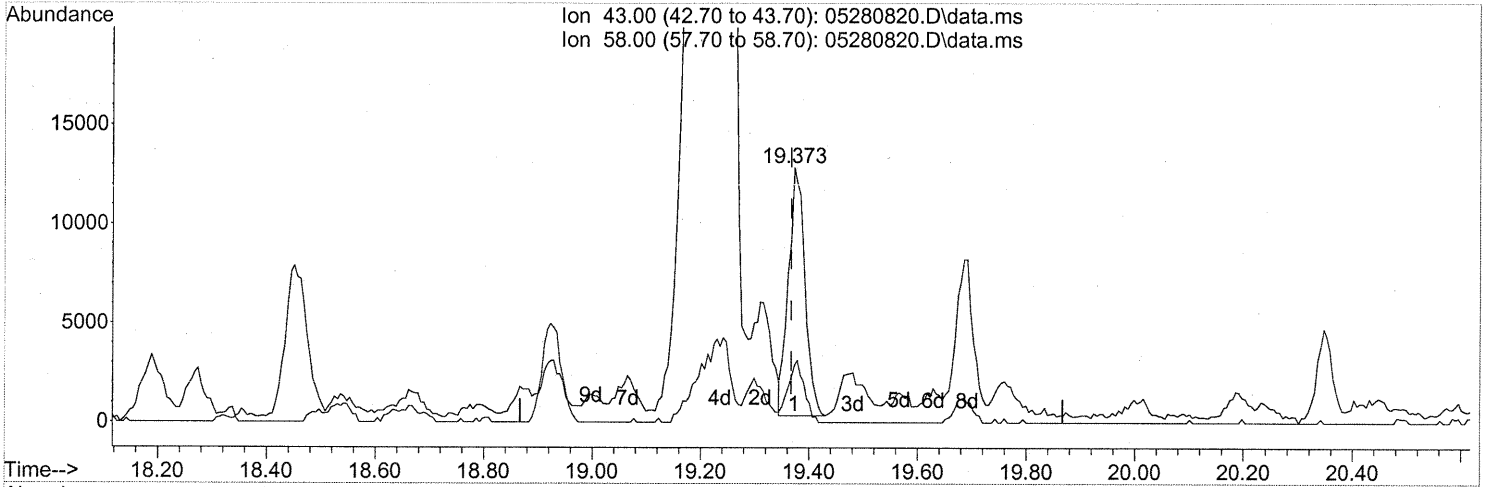
| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 57.77 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1401

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



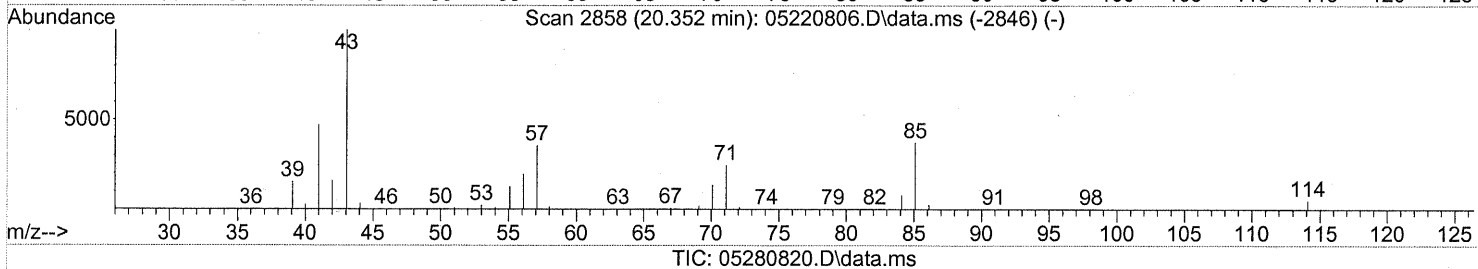
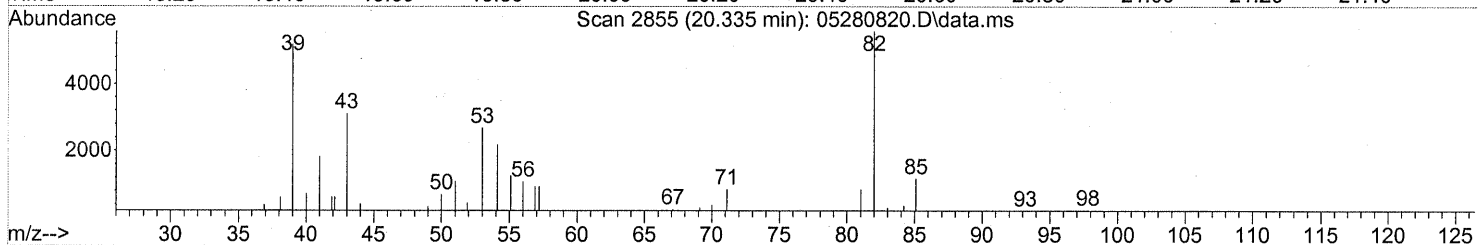
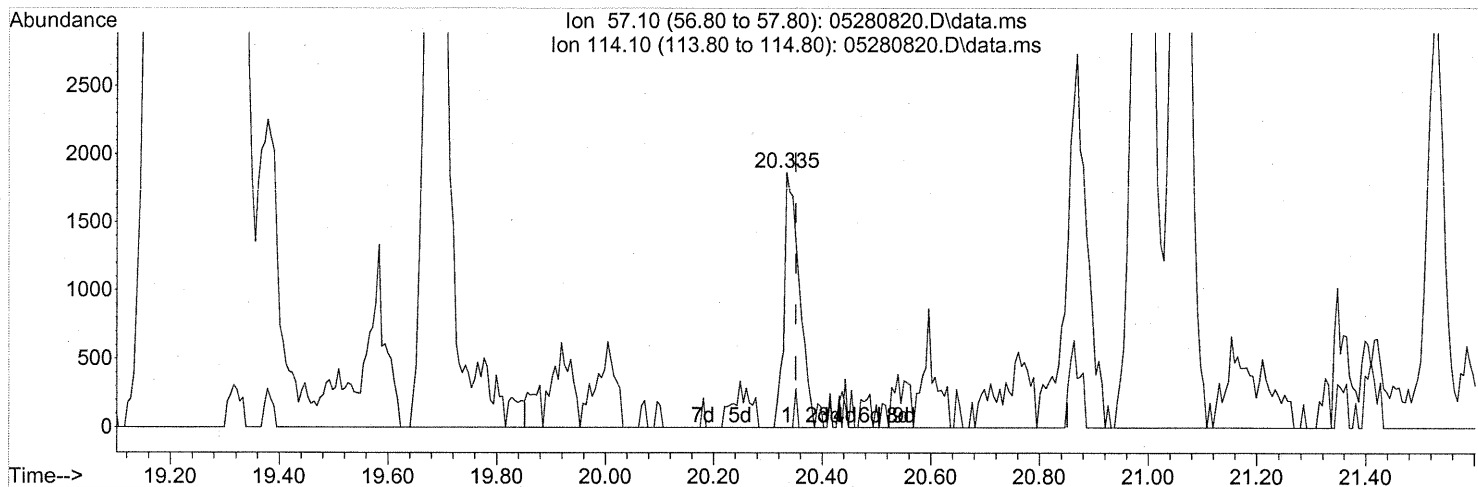
(59) 2-Hexanone (T)
 19.373min (+0.005) 0.51ng
 response 26487

| Ion | Exp% | Act% |
|-------|-------|--------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 25.31# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(63) n-Octane (T)

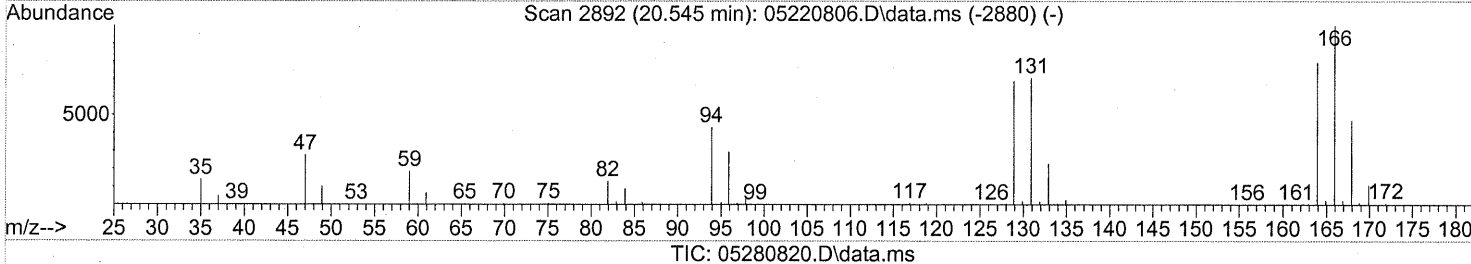
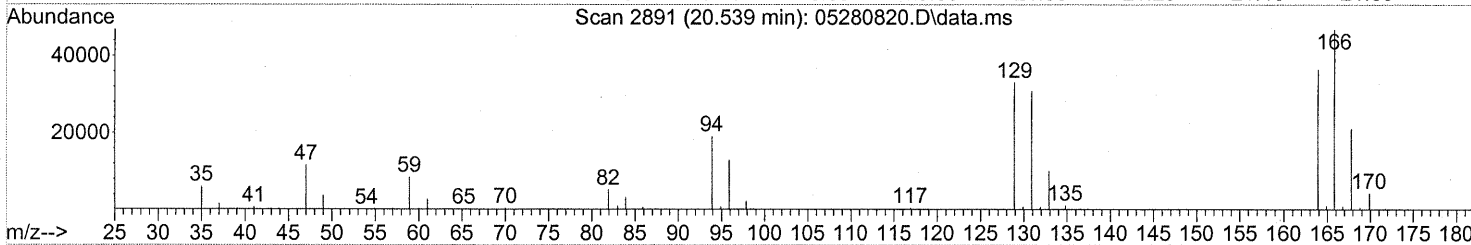
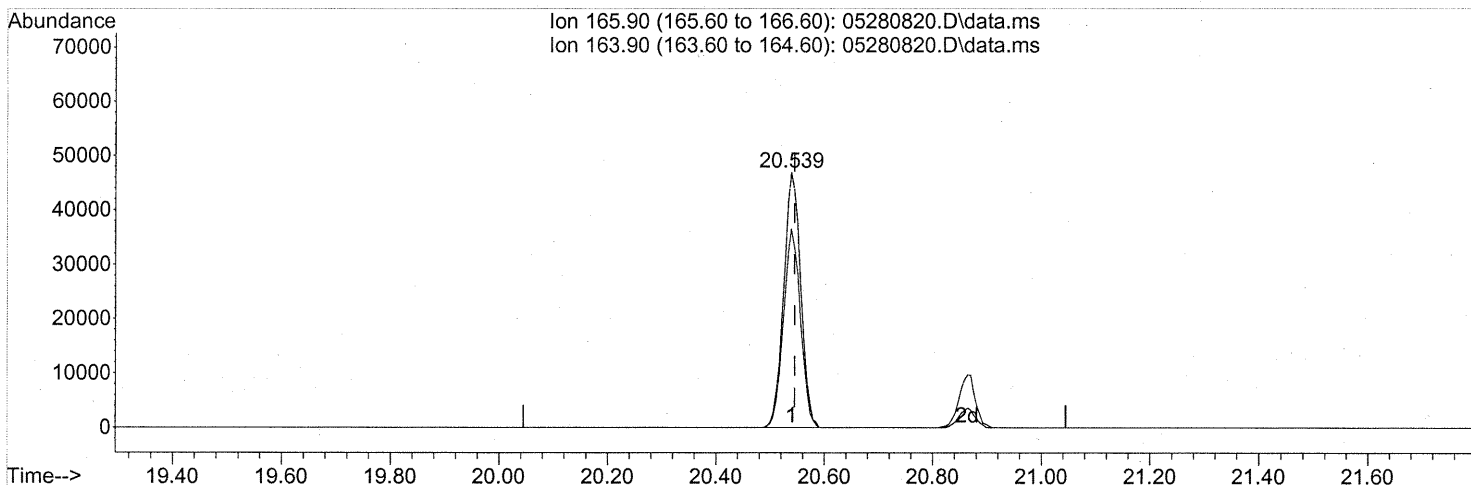
20.335min (-0.017) 0.22ng

response 3666

| Ion | Exp% | Act% |
|--------|-------|------|
| 57.10 | 100 | 100 |
| 114.10 | 10.20 | 2.62 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.539min (-0.006) 4.61ng

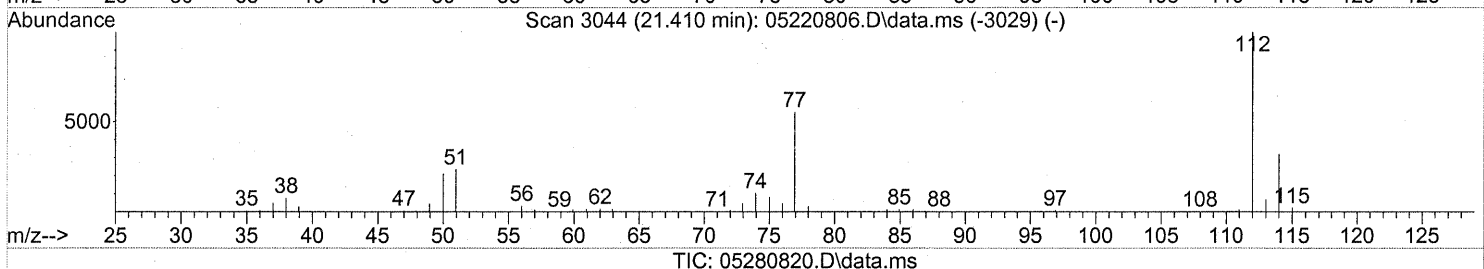
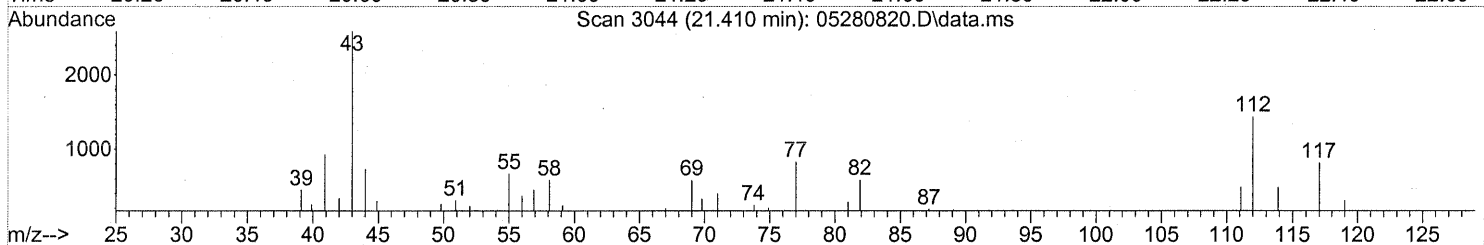
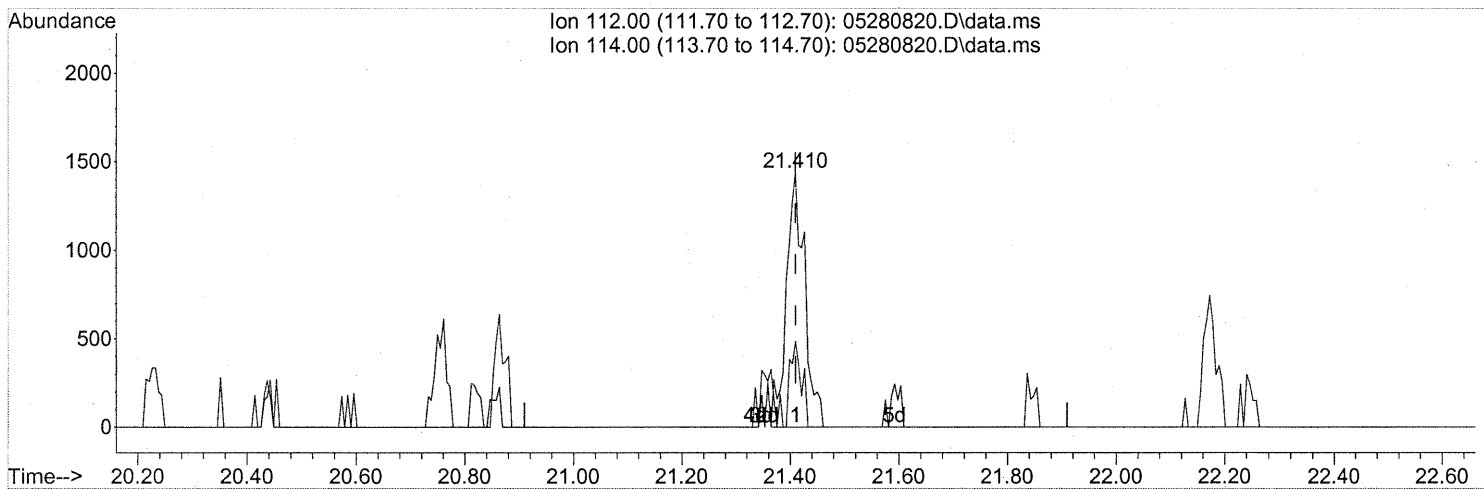
response 102709

| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 77.15 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



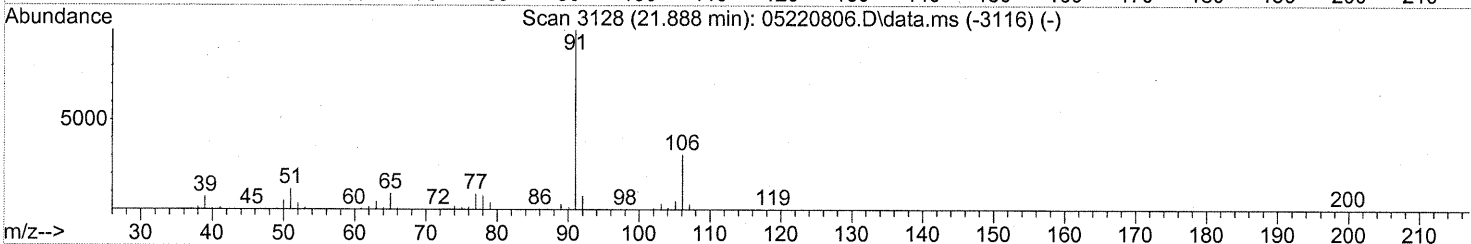
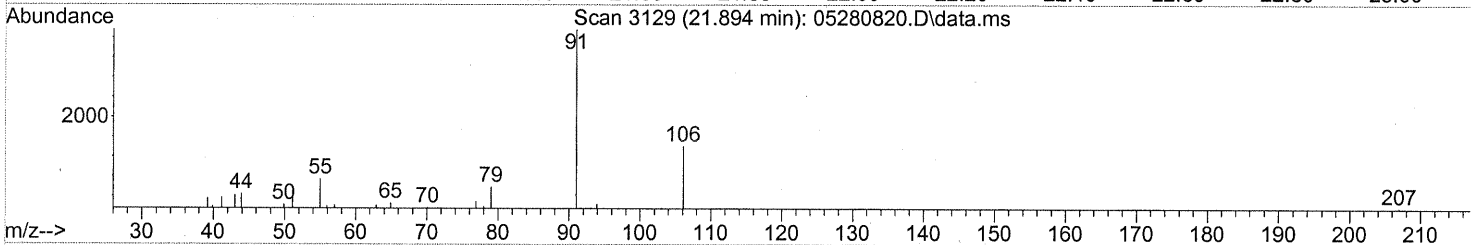
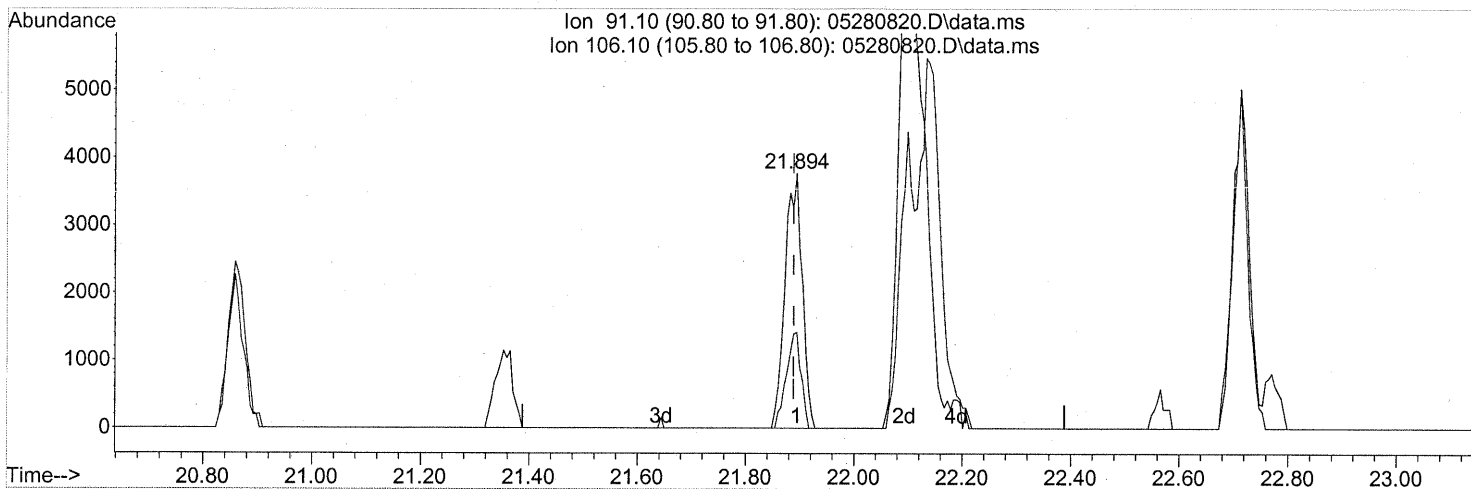
(65) Chlorobenzene (T)
 21.410min (-0.000) 0.07ng
 response 3351

| Ion | Exp% | Act% |
|--------|-------|-------|
| 112.00 | 100 | 100 |
| 114.00 | 32.40 | 21.16 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1405

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



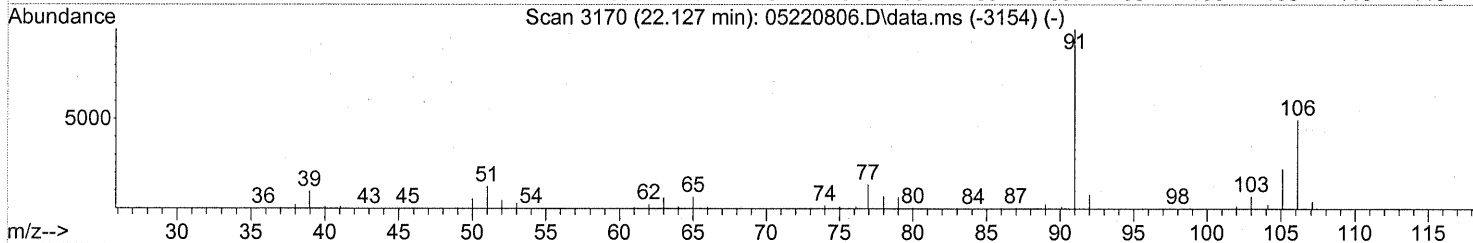
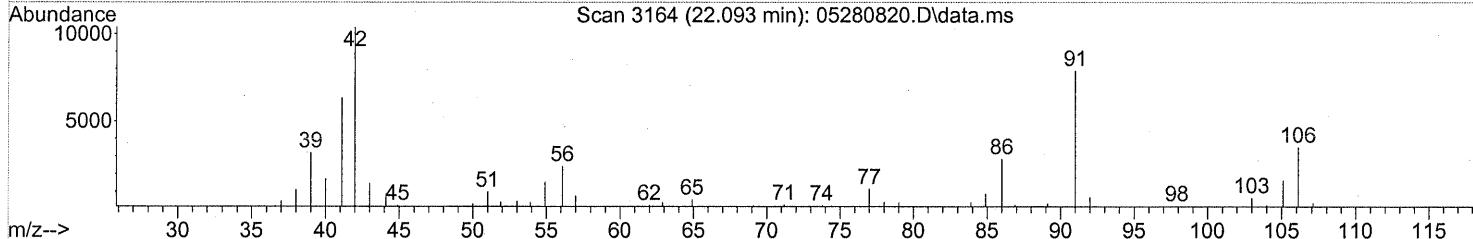
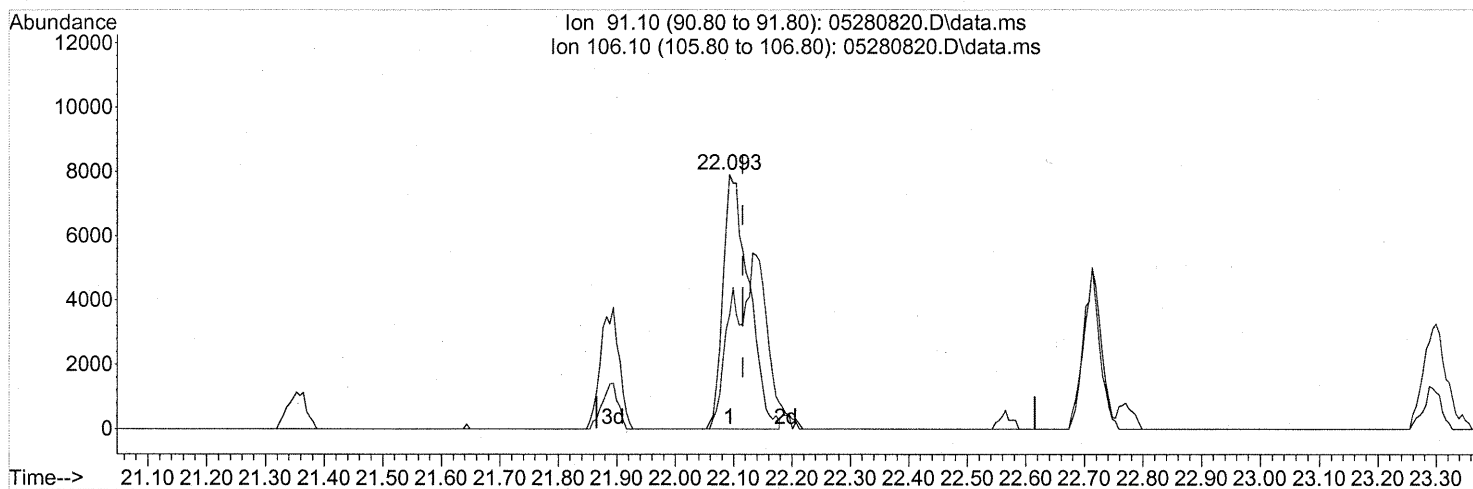
(66) Ethylbenzene (T)
 21.894min (+0.006) 0.10ng
 response 8254

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 34.10 | 32.12 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280820.D\data.ms

(67) m- & p-Xylene (T)
 22.093min (-0.023) 0.42ng
 response 24387

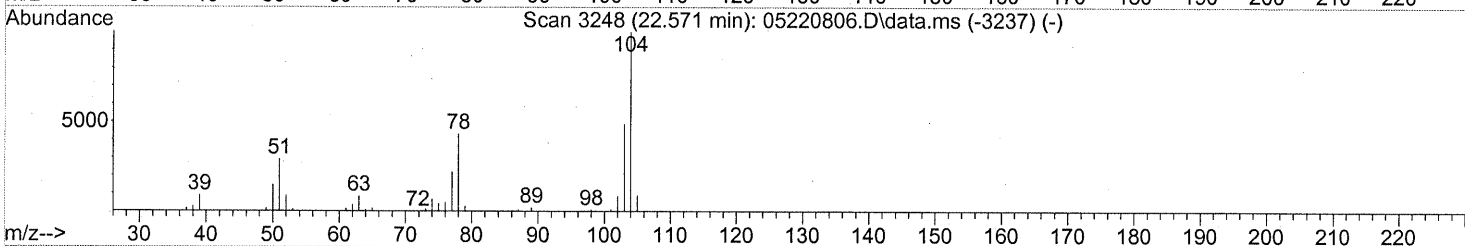
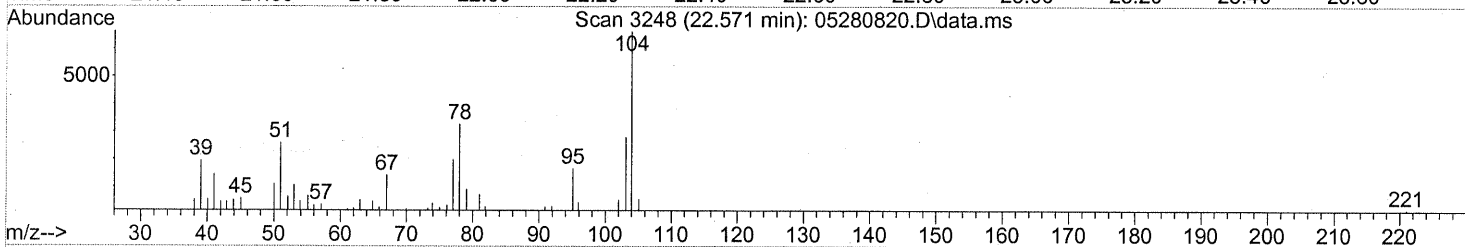
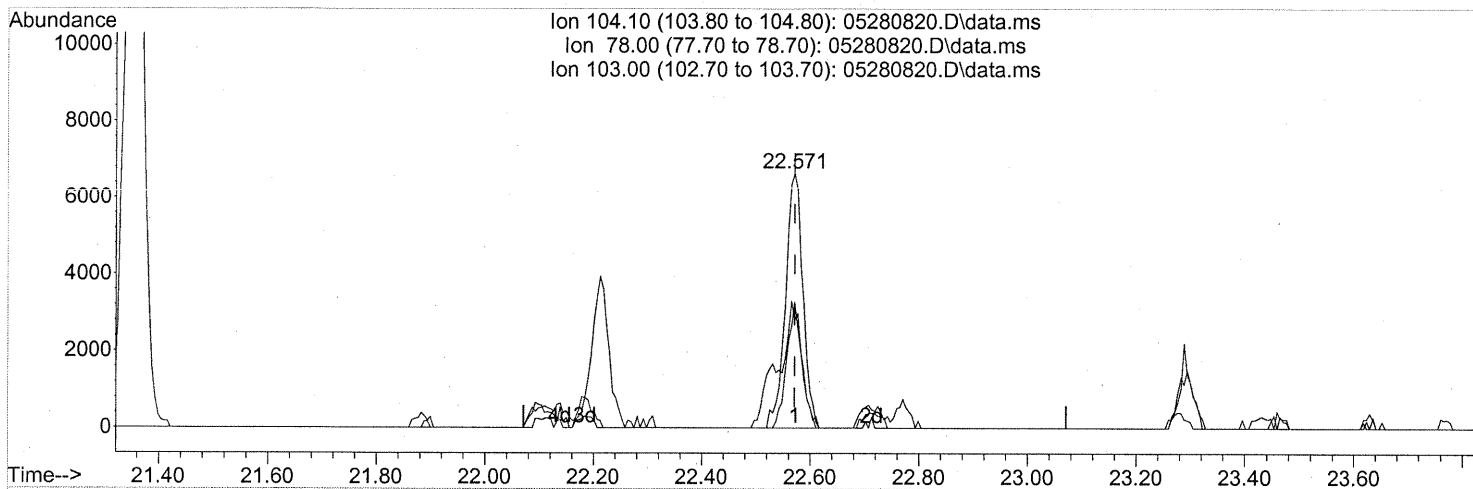
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 35.07 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1407

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



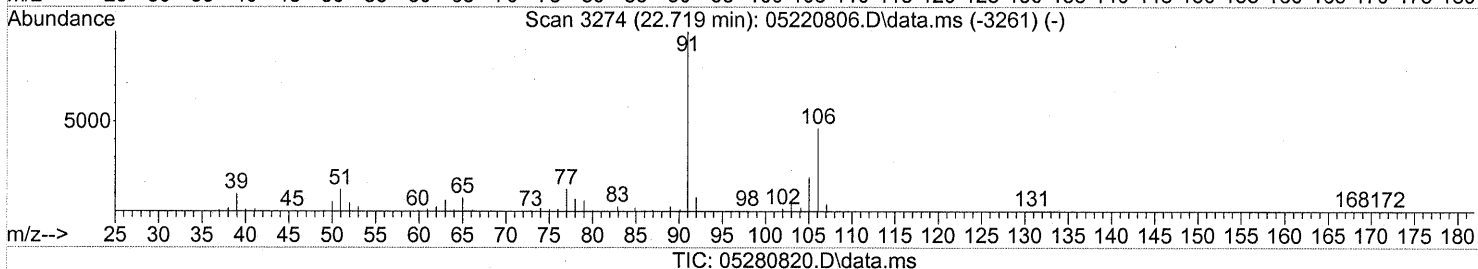
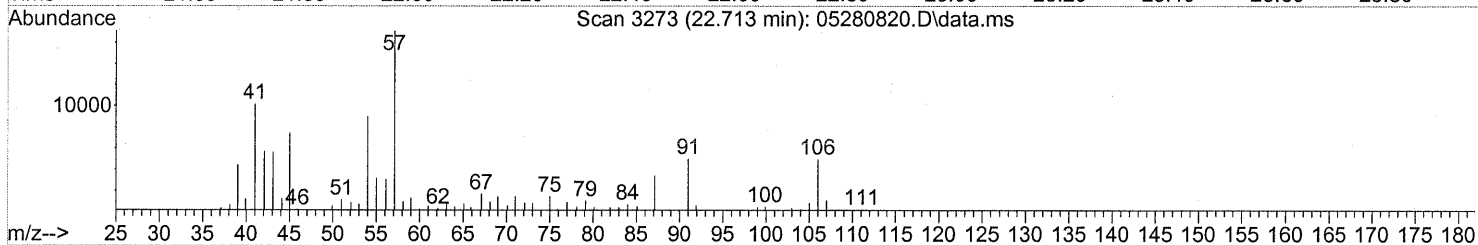
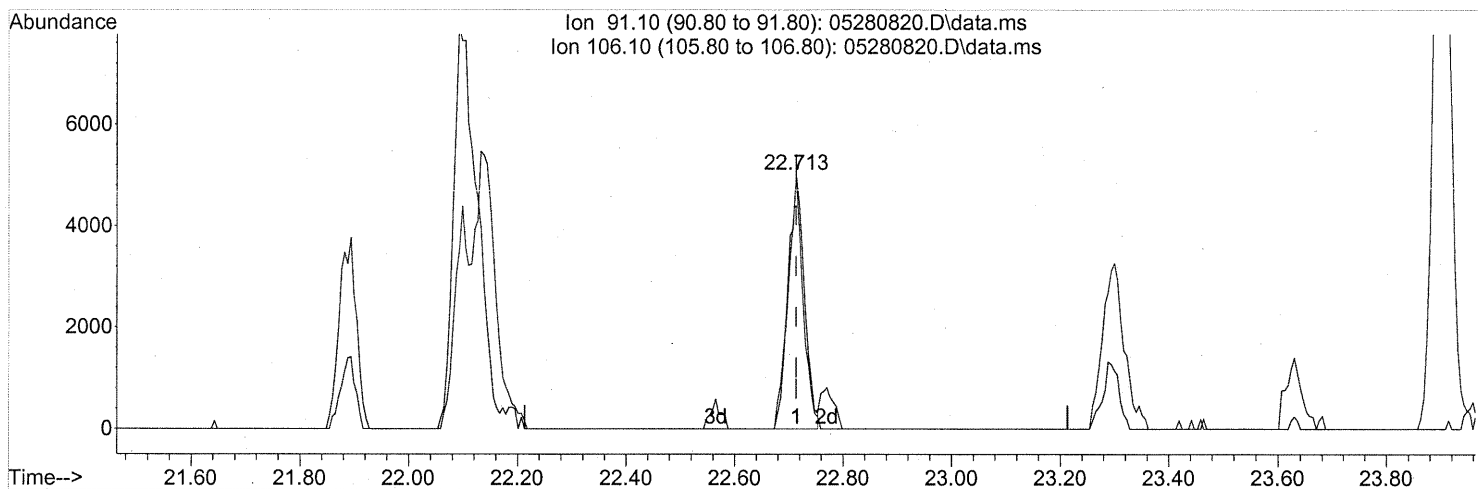
(69) Styrene (T)
 22.571min (-0.000) 0.29ng
 response 14729

| Ion | Exp% | Act% |
|--------|-------|-------|
| 104.10 | 100 | 100 |
| 78.00 | 39.40 | 42.38 |
| 103.00 | 47.10 | 43.09 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.713min (-0.000) 0.17ng
 response 10515

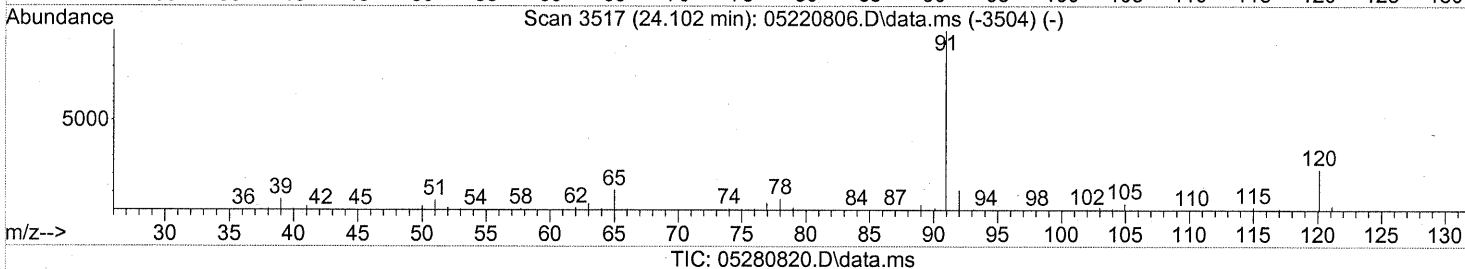
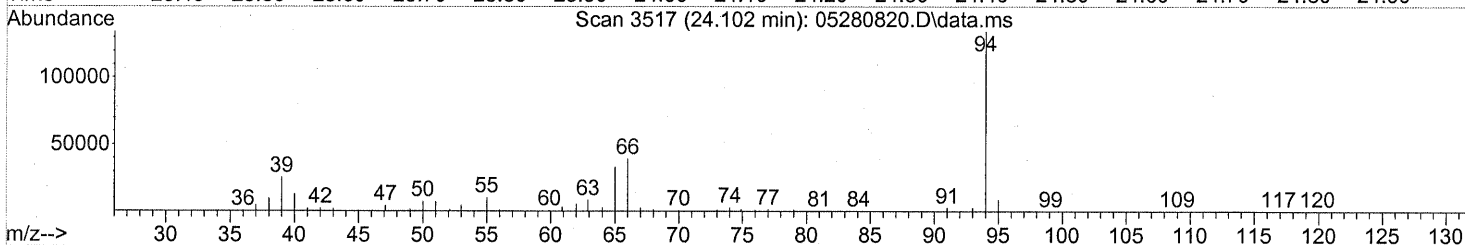
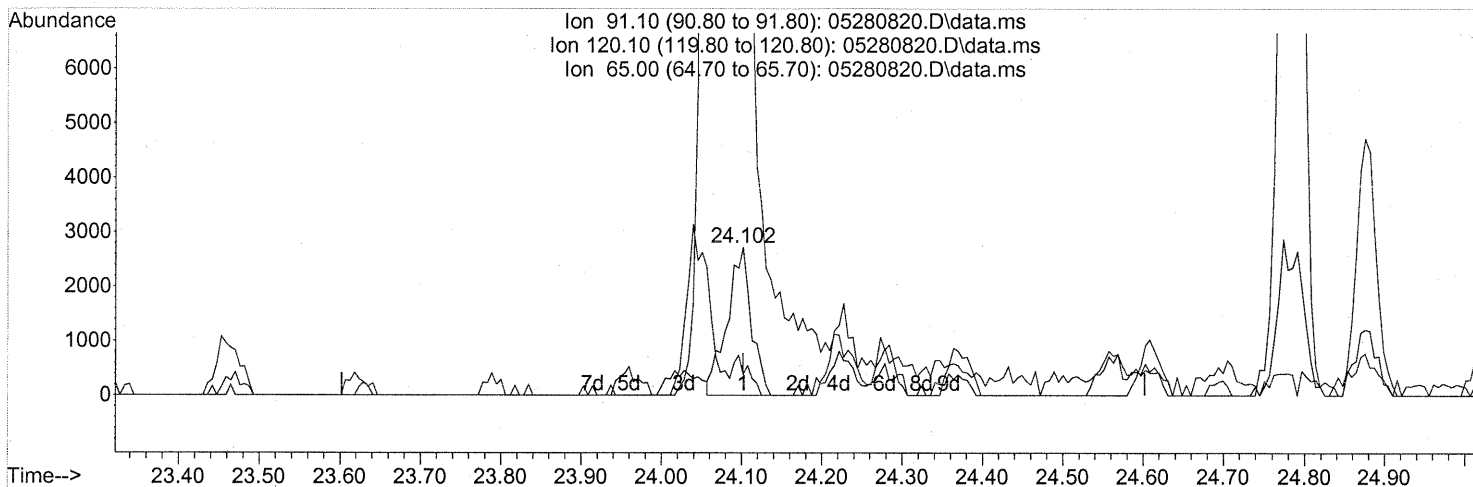
| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 92.08# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1409

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

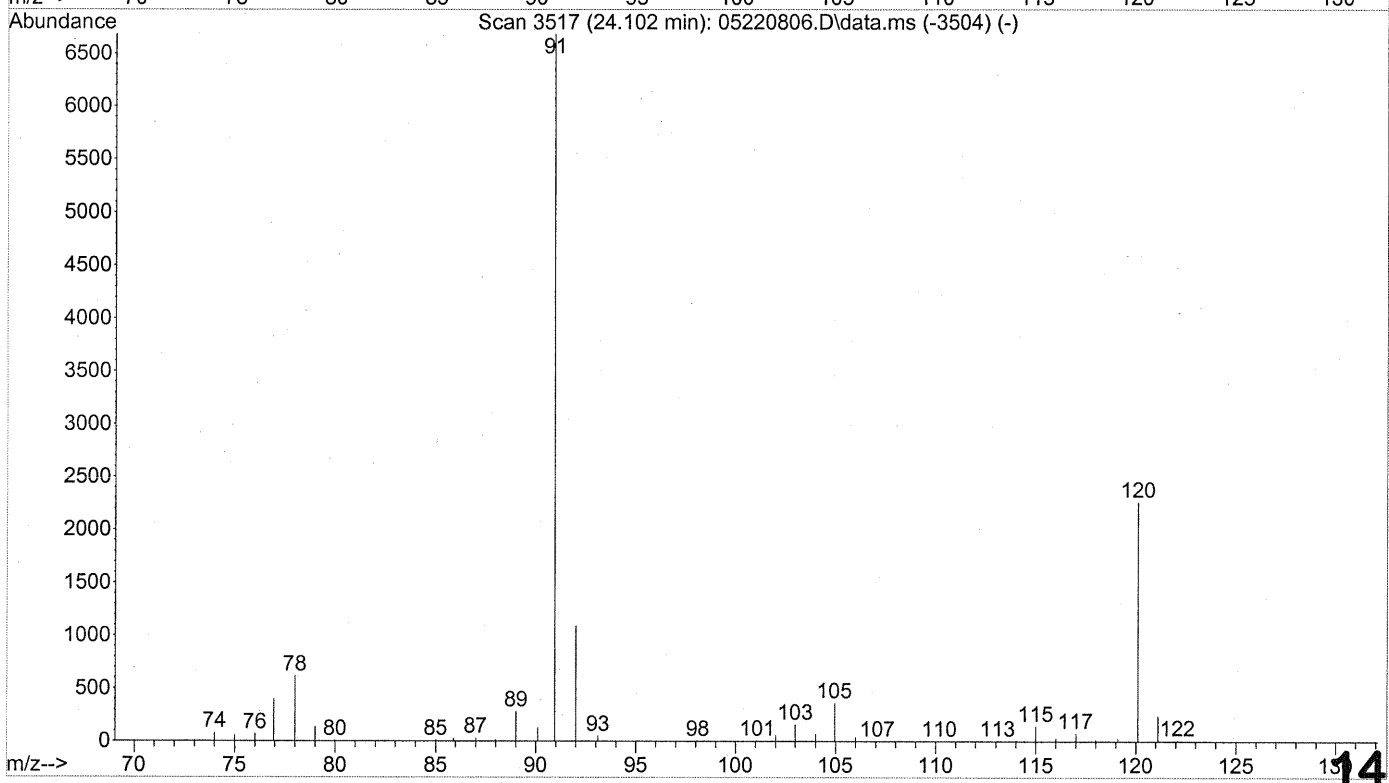
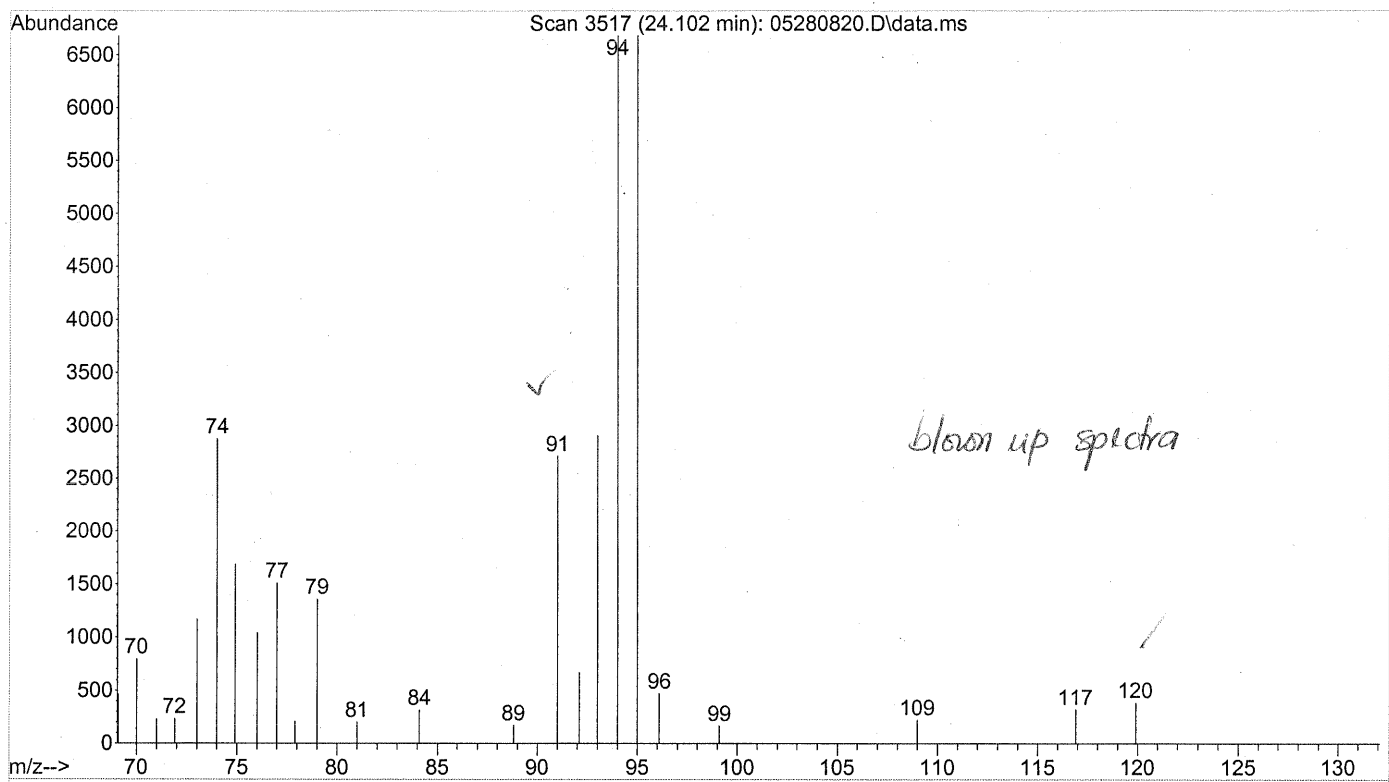
24.102min (-0.000) 0.05ng

response 5697

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 16.69 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

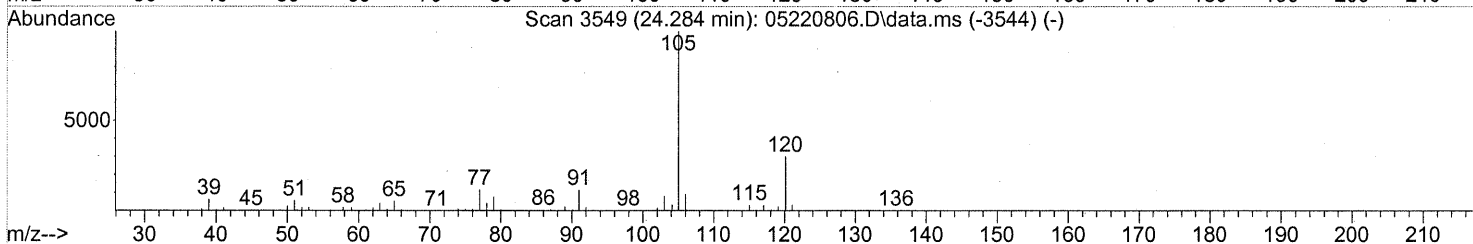
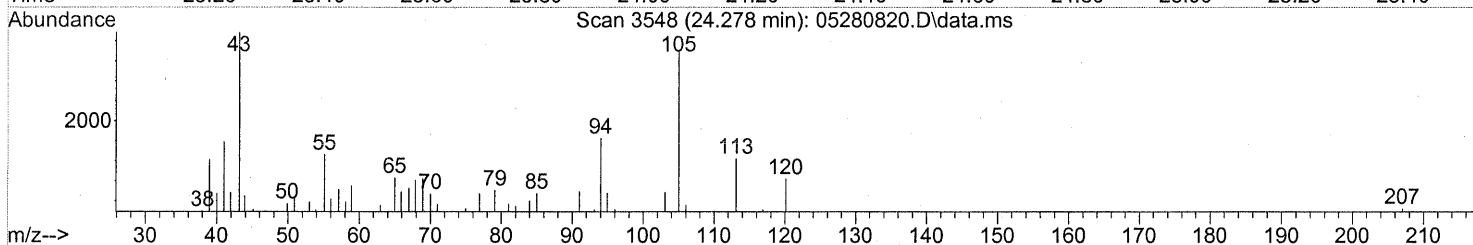
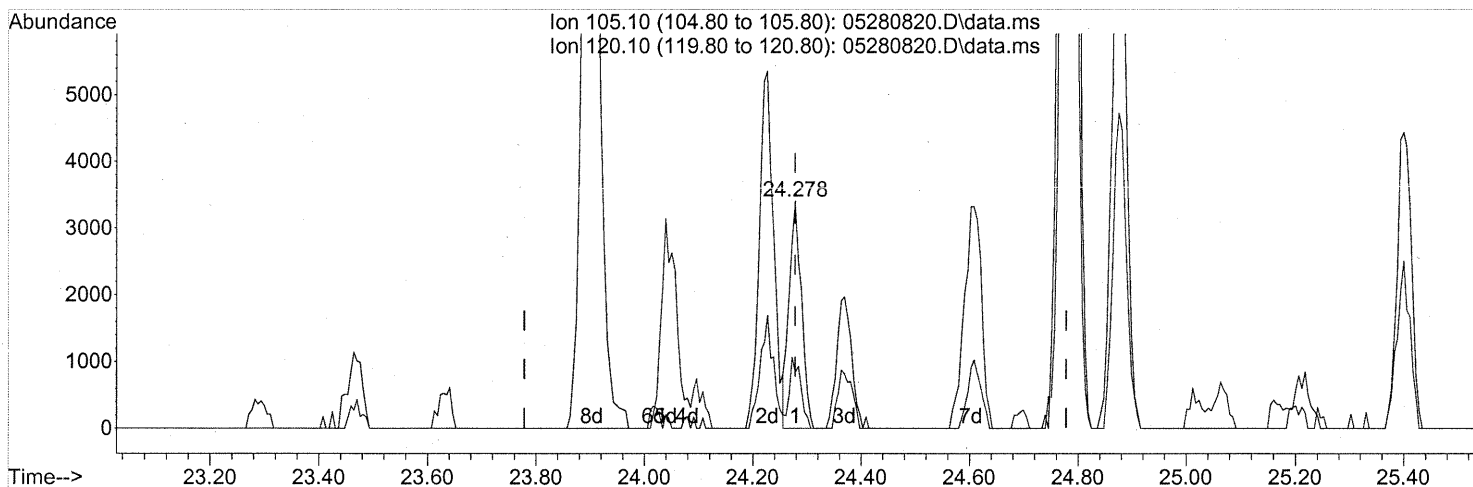
File : J:\MS13\DATA\2008_05\28\05280820.D
Operator : WA
Acquired : 29 May 2008 00:10 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-029 (1000ml)
Misc Info : ENSR SG17B-05 (-3.3, 3.9)
Vial Number: 1



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

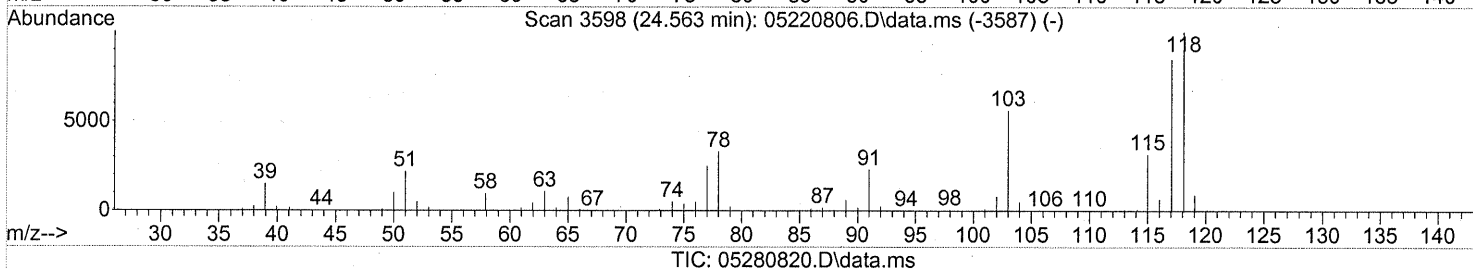
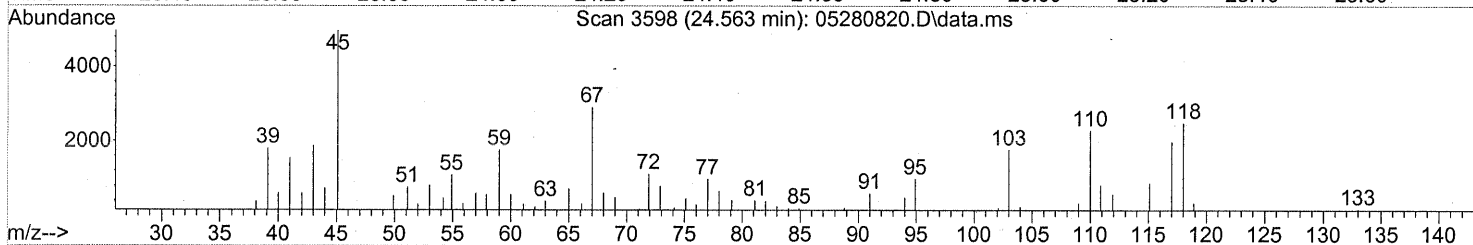
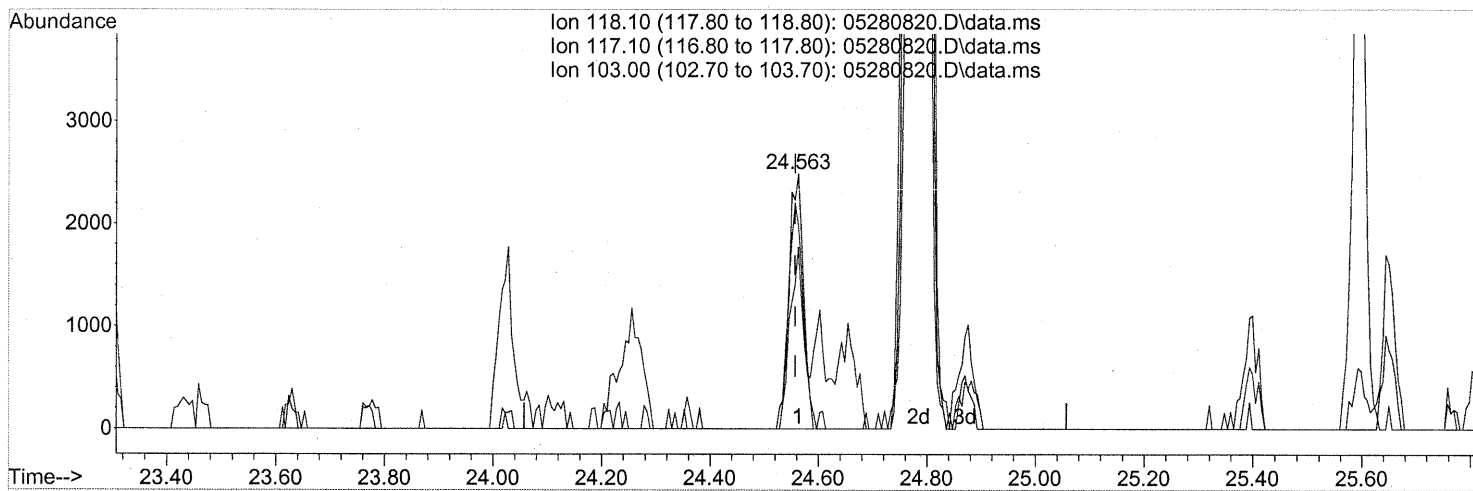
24.278min (-0.000) 0.07ng

response 5387

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 27.36 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.12ng

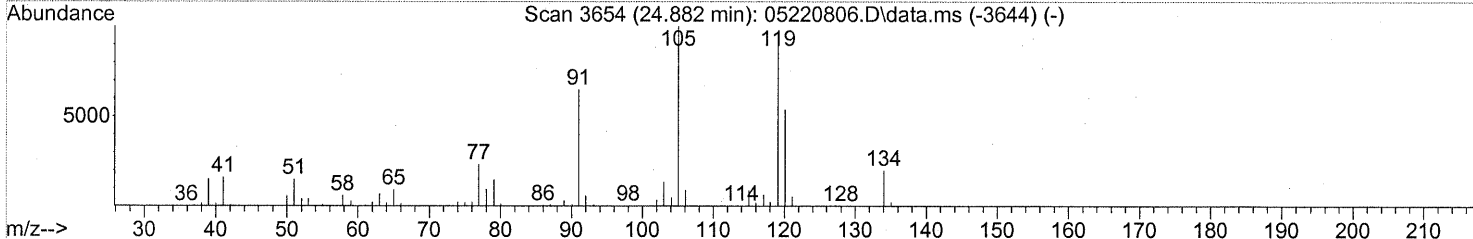
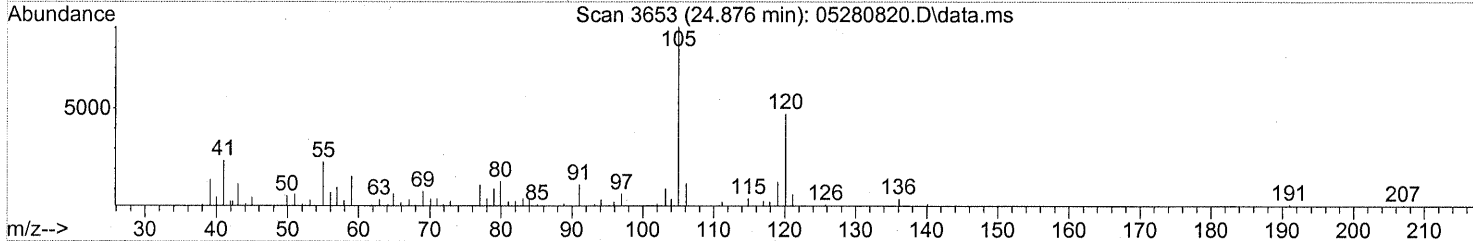
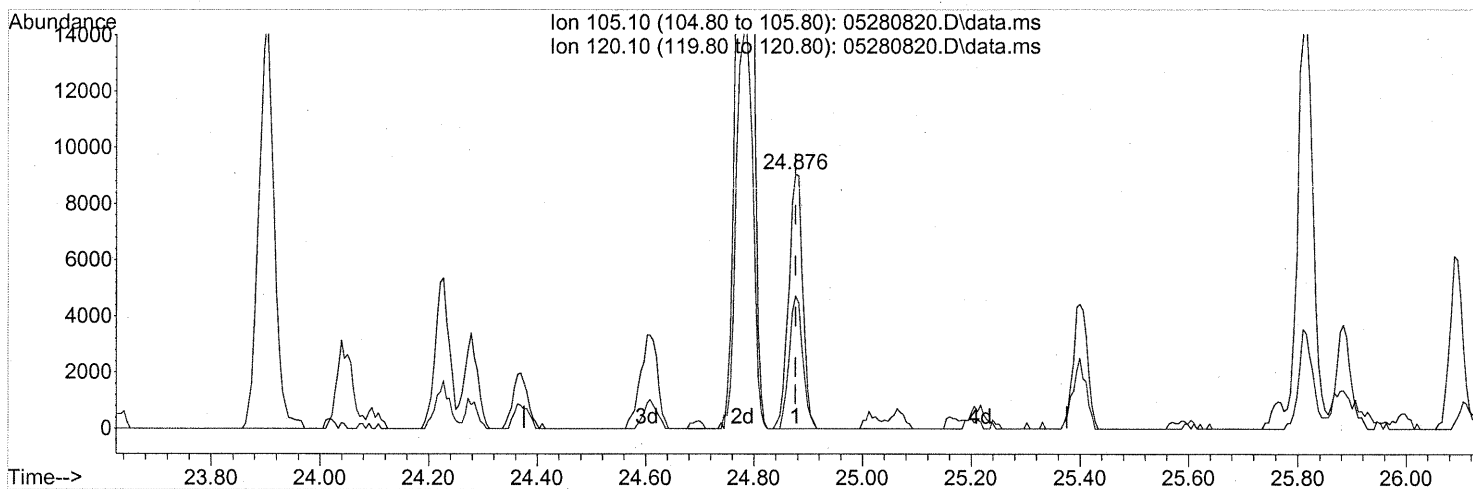
response 4646

| Ion | Exp% | Act% |
|--------|-------|-------|
| 118.10 | 100 | 100 |
| 117.10 | 84.10 | 88.03 |
| 103.00 | 55.30 | 68.19 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.22ng

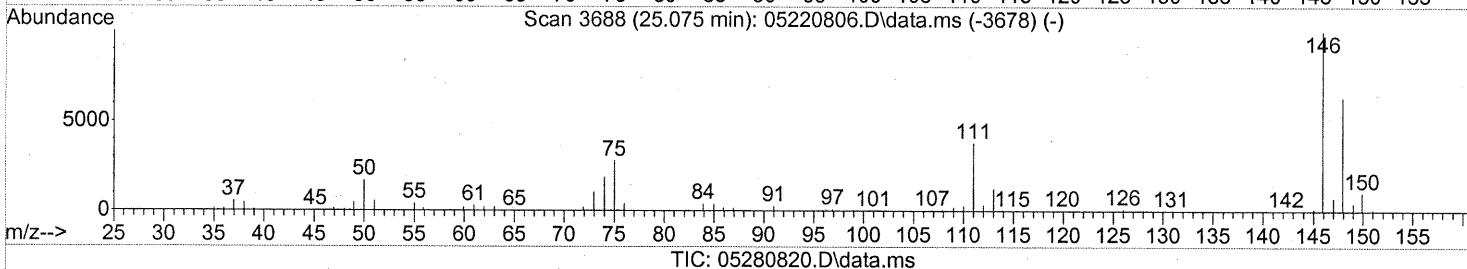
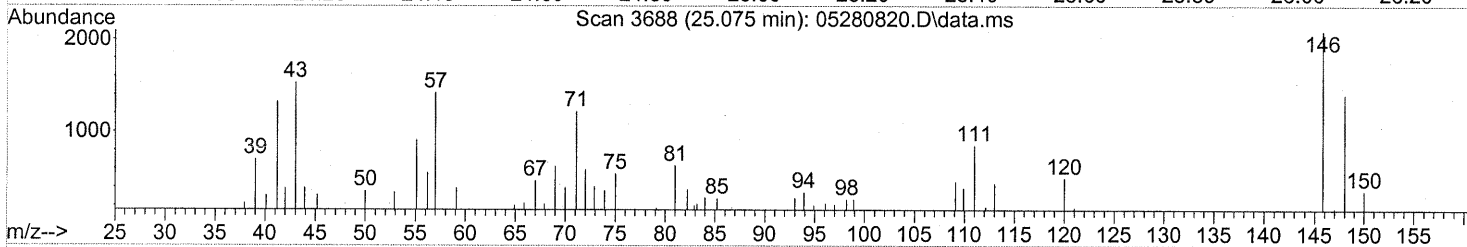
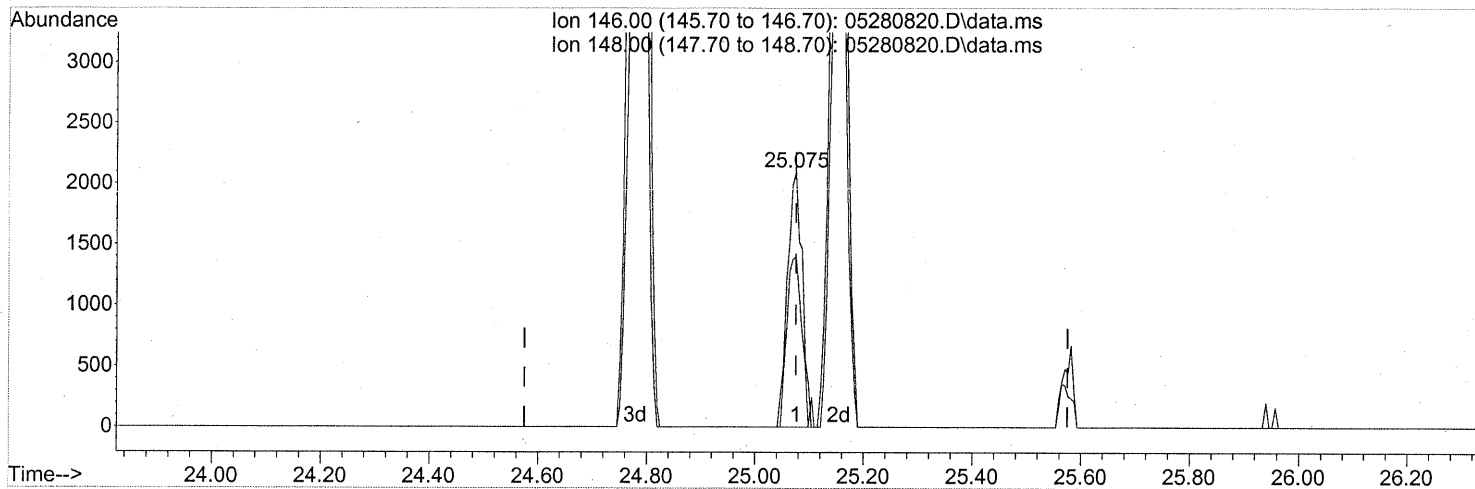
response 16360

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 50.23 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1414

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

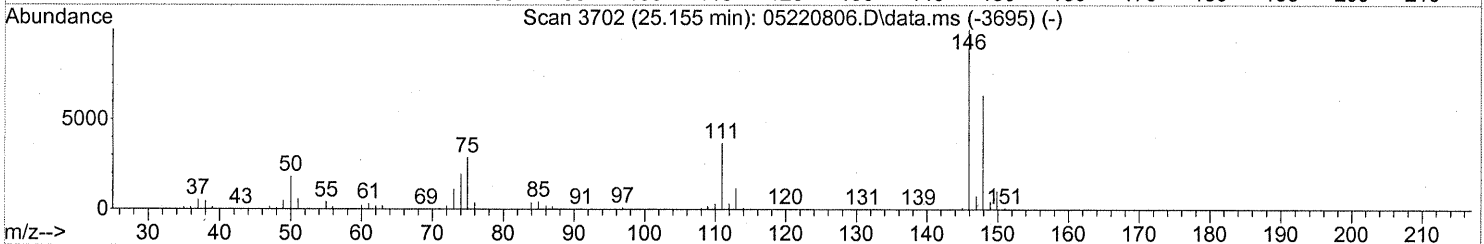
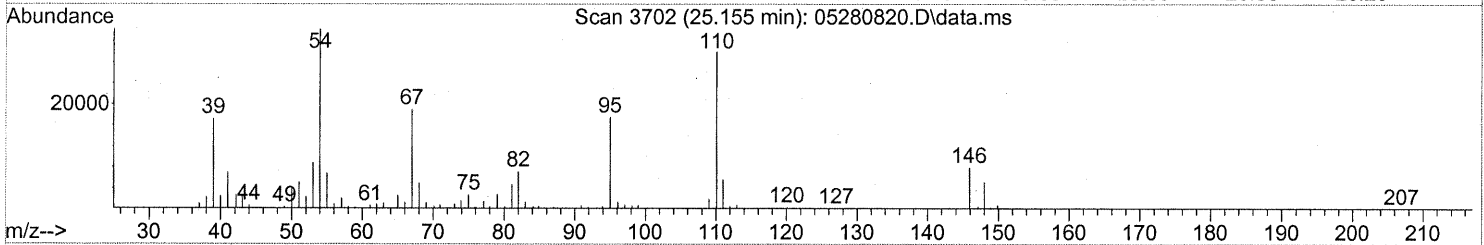
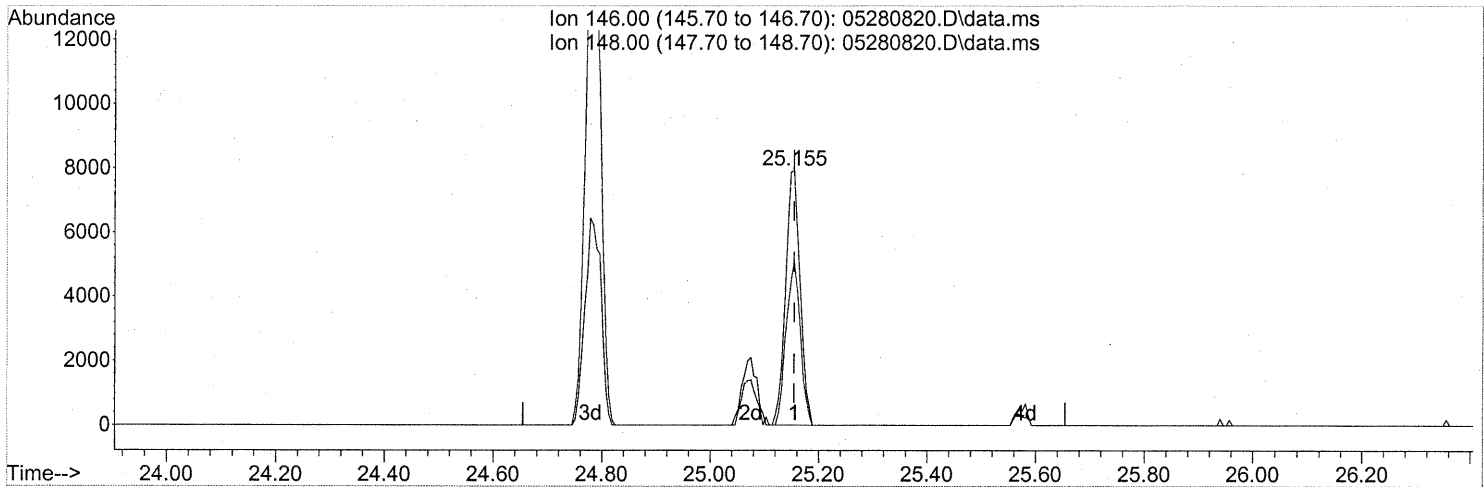
25.075min (-0.000) 0.08ng

response 3916

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.00 | 68.51 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

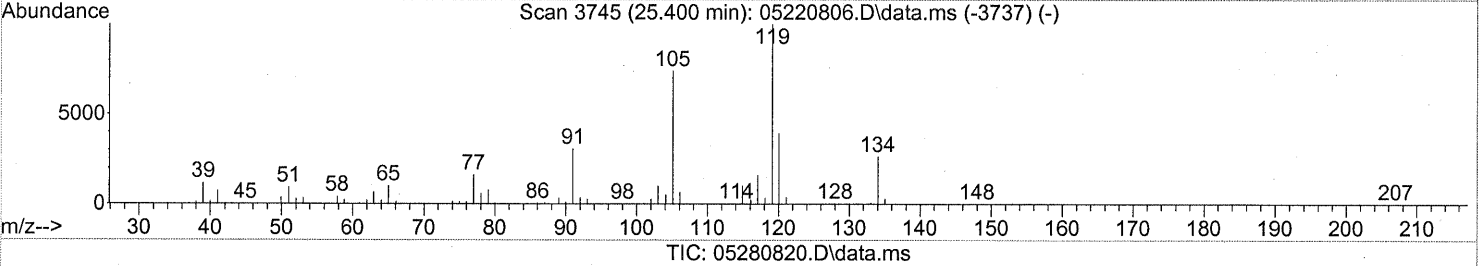
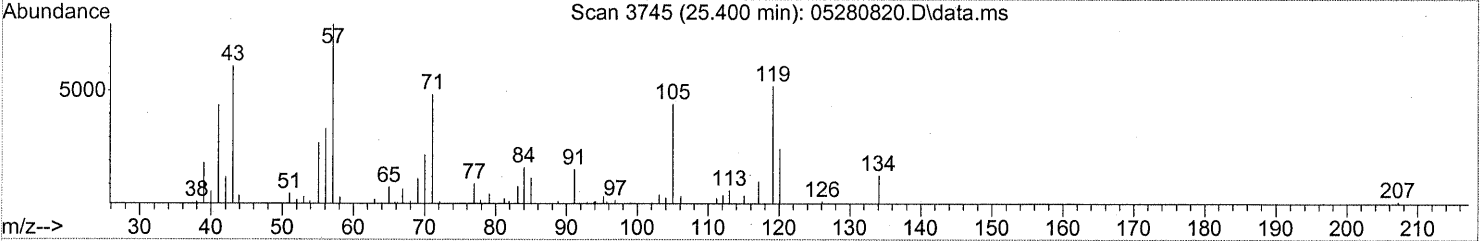
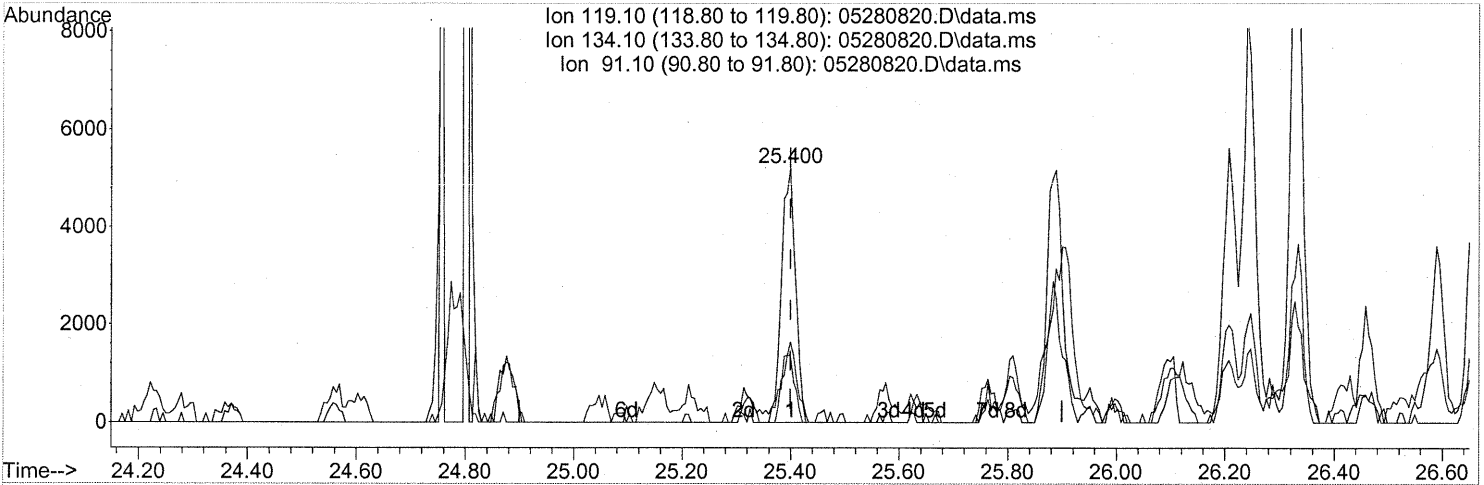
25.155min (-0.000) 0.32ng

response 14607

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 62.60 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

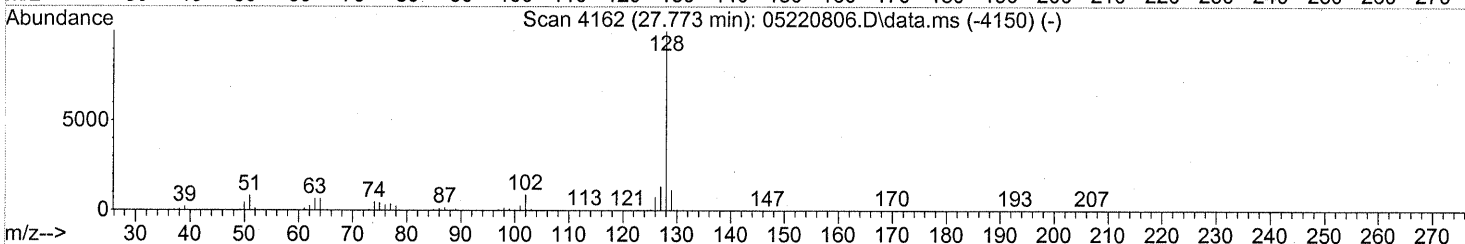
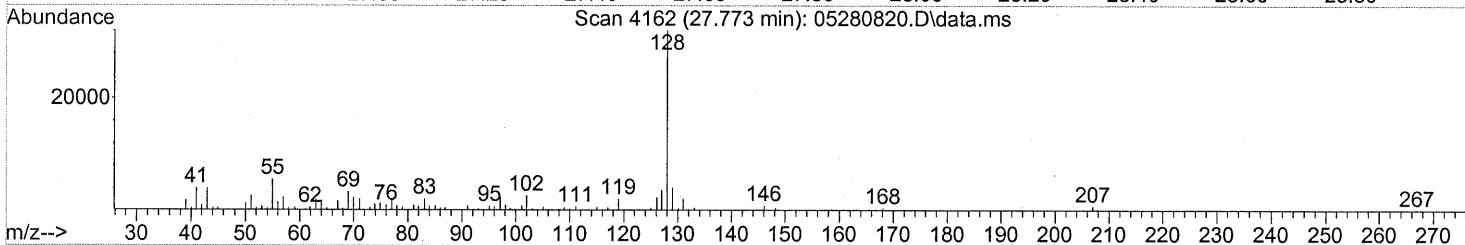
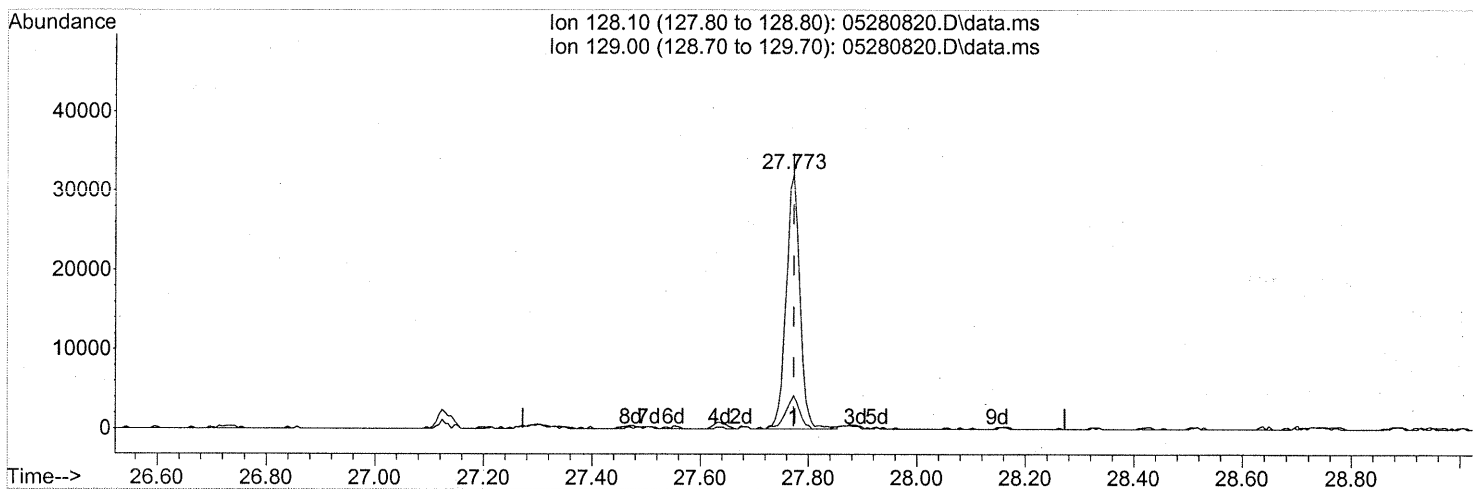
25.400min (-0.000) 0.12ng

response 9321

| Ion | Exp% | Act% |
|--------|-------|-------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 23.84 |
| 91.10 | 27.10 | 34.41 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

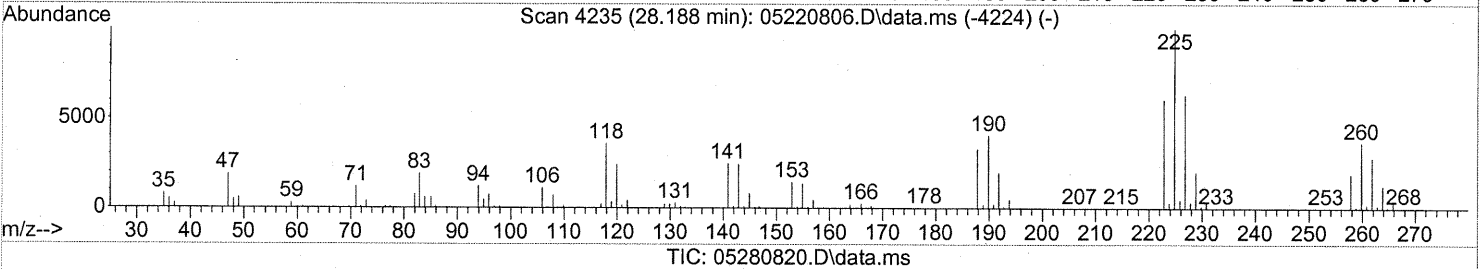
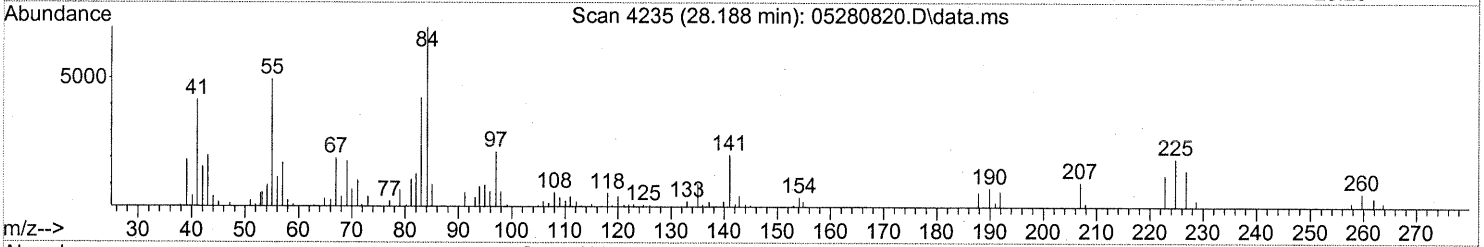
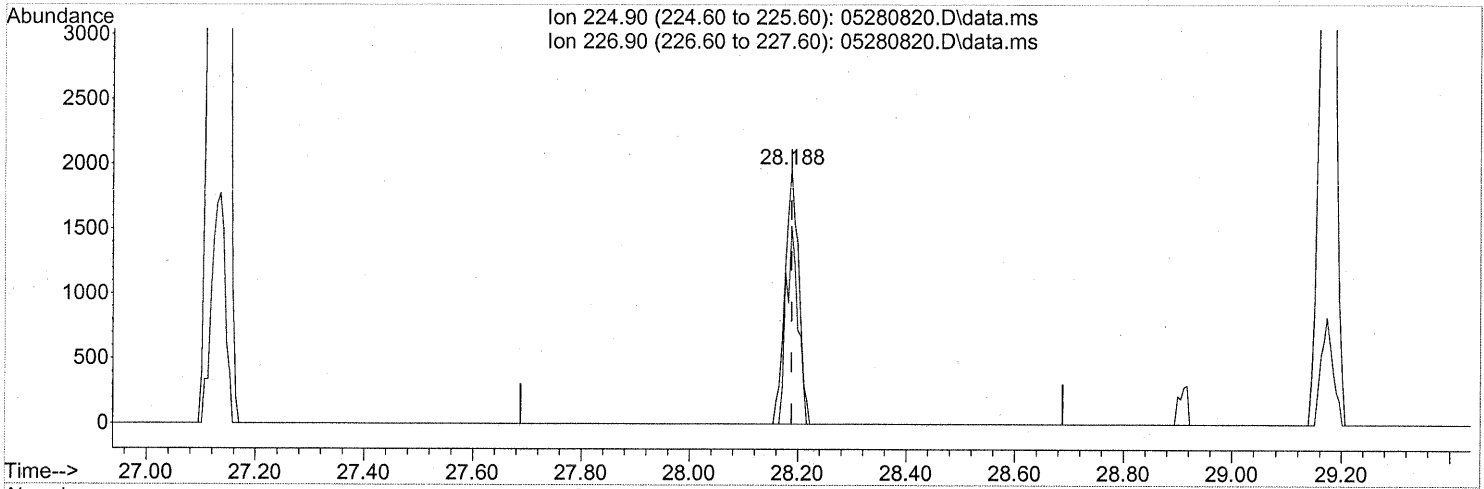


(95) Naphthalene (T)
 27.773min (-0.000) 0.57ng
 response 56578

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 13.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 04:16:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

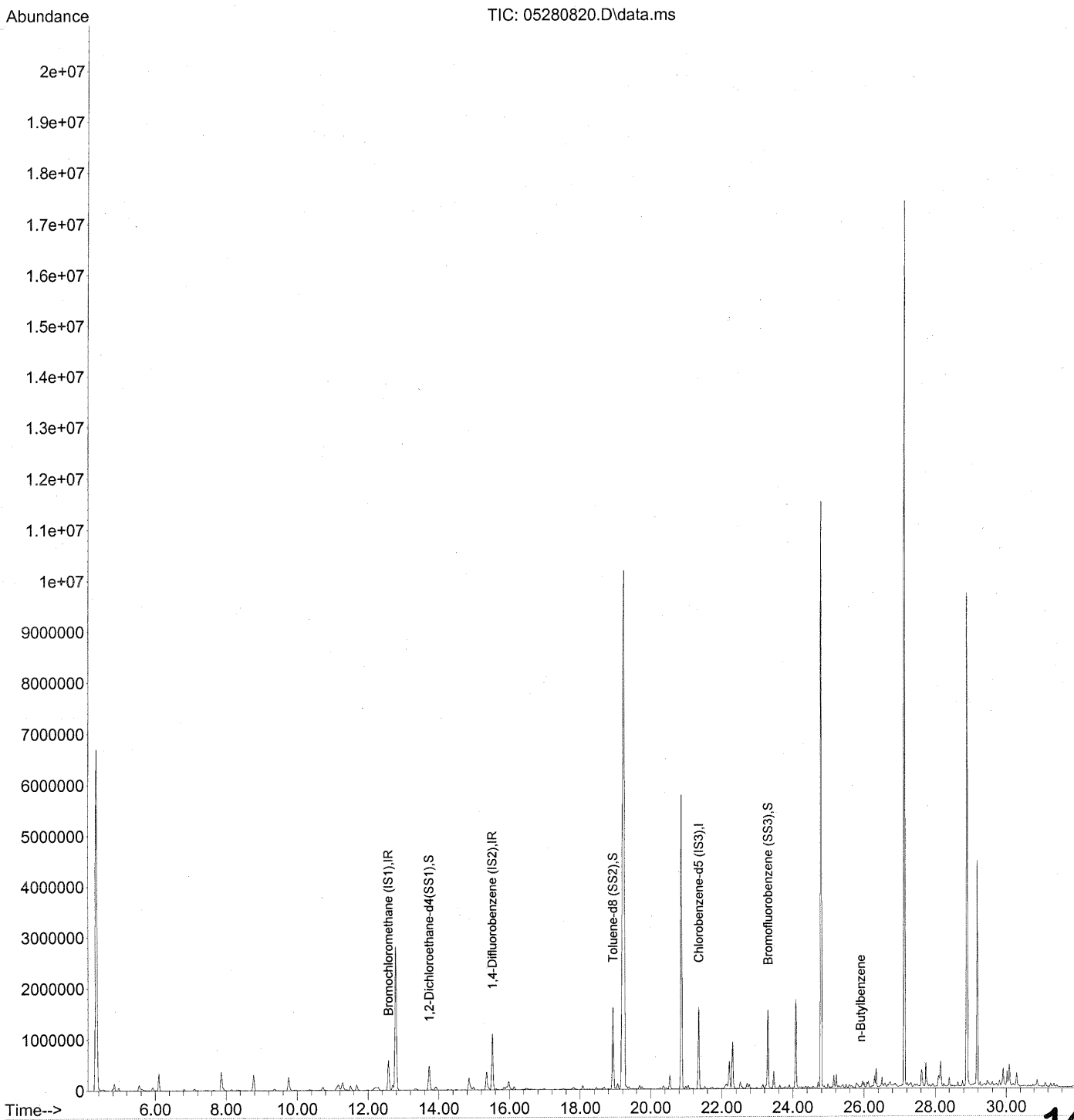
28.188min (-0.000) 0.16ng

response 3448

| Ion | Exp% | Act% |
|--------|-------|-------|
| 224.90 | 100 | 100 |
| 226.90 | 62.80 | 67.05 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 12:10 am
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:24:17 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



1420

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 12:10 am
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

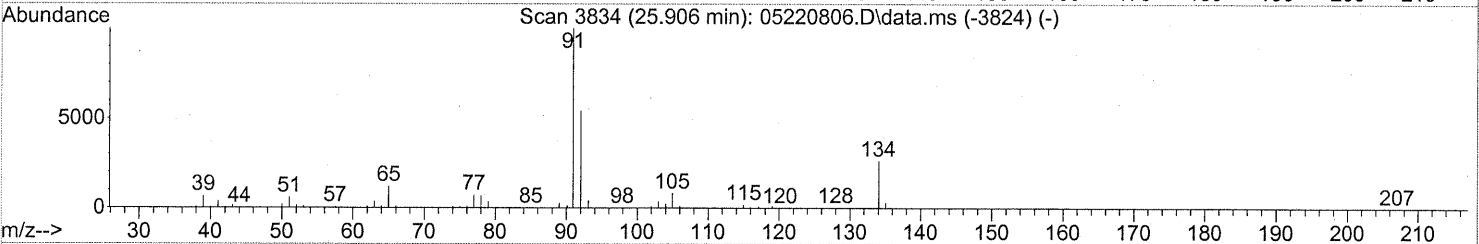
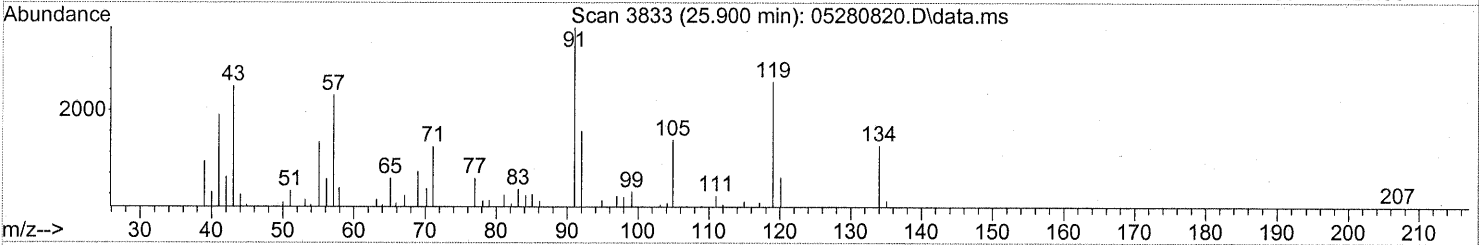
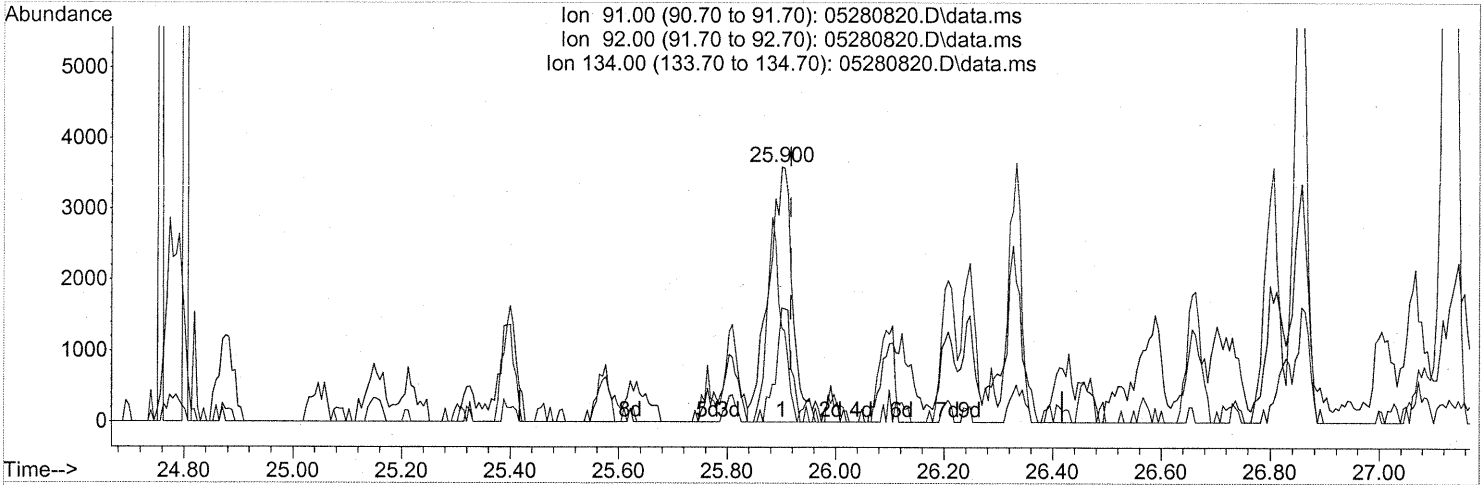
Quant Time: May 31 13:24:17 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 306641 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1309030 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 617431 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 486807 | 22.912 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 91.64% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 1358370 | 24.497 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 98.00% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 579699 | 25.708 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.84% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 2478 | N.D. | | Qvalue |
| 8) n-Butylbenzene | 25.90 | 91 | 11080 | 0.138 ng | M# | 63 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280820.D
 Acq On : 29 May 2008 00:10
 Operator : WA
 Sample : P0801483-029 (1000ml)
 Misc : ENSR SG17B-05 (-3.3, 3.9)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 13:24:17 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



(8) n-Butylbenzene
 25.900min (-0.017) 0.14ng
 response 11080

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 29.15# |
| 134.00 | 28.80 | 49.41# |
| 0.00 | 0.00 | 0.00 |

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG18B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-030

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00441

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 2.1 | 0.79 | 0.079 | 0.42 | 0.16 | 0.016 | |
| 74-87-3 | Chloromethane | ND | 0.16 | 0.079 | ND | 0.077 | 0.038 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 0.095 | 0.79 | 0.079 | 0.014 | 0.11 | 0.011 | J |
| 75-01-4 | Vinyl Chloride | ND | 0.16 | 0.079 | ND | 0.062 | 0.031 | |
| 74-83-9 | Bromomethane | ND | 0.16 | 0.079 | ND | 0.041 | 0.020 | |
| 75-00-3 | Chloroethane | 0.41 | 0.16 | 0.079 | 0.15 | 0.060 | 0.030 | |
| 64-17-5 | Ethanol | 5.6 | 7.9 | 0.079 | 2.9 | 4.2 | 0.042 | J |
| 67-64-1 | Acetone | 13 | 7.9 | 0.12 | 5.5 | 3.3 | 0.049 | B |
| 75-69-4 | Trichlorofluoromethane | 1.1 | 0.16 | 0.079 | 0.19 | 0.028 | 0.014 | |
| 107-13-1 | Acrylonitrile | ND | 0.79 | 0.11 | ND | 0.36 | 0.051 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.16 | 0.079 | ND | 0.040 | 0.020 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.36 | 0.79 | 0.12 | 0.12 | 0.26 | 0.039 | J |
| 75-09-2 | Methylene Chloride | 0.94 | 0.79 | 0.079 | 0.27 | 0.23 | 0.023 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.16 | 0.079 | ND | 0.050 | 0.025 | |
| 76-13-1 | Trichlorotrifluoroethane | 0.46 | 0.16 | 0.088 | 0.061 | 0.021 | 0.012 | |
| 75-15-0 | Carbon Disulfide | 7.3 | 0.79 | 0.19 | 2.4 | 0.25 | 0.061 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.16 | 0.079 | ND | 0.040 | 0.020 | |
| 75-34-3 | 1,1-Dichloroethane | 0.68 | 0.16 | 0.079 | 0.17 | 0.039 | 0.020 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.16 | 0.079 | ND | 0.044 | 0.022 | |
| 108-05-4 | Vinyl Acetate | 3.8 | 7.9 | 0.25 | 1.1 | 2.2 | 0.072 | J |
| 78-93-3 | 2-Butanone (MEK) | 4.0 | 0.79 | 0.079 | 1.4 | 0.27 | 0.027 | B |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.16 | 0.079 | ND | 0.040 | 0.020 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.79 | 0.093 | ND | 0.19 | 0.022 | |
| 67-66-3 | Chloroform | 1,800 | 0.16 | 0.093 | 370 | 0.032 | 0.019 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: Date: 6/4/08 **1423**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG18B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-030

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00441

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|-----------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.79 | 0.081 | ND | 0.19 | 0.019 | |
| 107-06-2 | 1,2-Dichloroethane | 0.15 | 0.16 | 0.079 | 0.037 | 0.039 | 0.020 | J |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.16 | 0.079 | ND | 0.029 | 0.014 | |
| 71-43-2 | Benzene | 1.9 | 0.16 | 0.079 | 0.60 | 0.049 | 0.025 | |
| 56-23-5 | Carbon Tetrachloride | 110 | 0.16 | 0.079 | 17 | 0.025 | 0.013 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.79 | 0.079 | ND | 0.19 | 0.019 | |
| 78-87-5 | 1,2-Dichloropropane | 0.36 | 0.16 | 0.079 | 0.079 | 0.034 | 0.017 | |
| 75-27-4 | Bromodichloromethane | 0.36 | 0.16 | 0.079 | 0.054 | 0.024 | 0.012 | |
| 79-01-6 | Trichloroethene | 0.69 | 0.16 | 0.079 | 0.13 | 0.029 | 0.015 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.79 | 0.096 | ND | 0.22 | 0.027 | |
| 80-62-6 | Methyl Methacrylate | ND | 0.79 | 0.12 | ND | 0.19 | 0.029 | |
| 142-82-5 | n-Heptane | 0.21 | 0.79 | 0.10 | 0.051 | 0.19 | 0.025 | J |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.79 | 0.082 | ND | 0.17 | 0.018 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.34 | 0.79 | 0.088 | 0.083 | 0.19 | 0.022 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.79 | 0.10 | ND | 0.17 | 0.022 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.16 | 0.079 | ND | 0.029 | 0.014 | |
| 108-88-3 | Toluene | 1.1 | 0.79 | 0.079 | 0.29 | 0.21 | 0.021 | |
| 591-78-6 | 2-Hexanone | 0.76 | 0.79 | 0.12 | 0.19 | 0.19 | 0.029 | J |
| 124-48-1 | Dibromochloromethane | ND | 0.16 | 0.11 | ND | 0.019 | 0.013 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.16 | 0.085 | ND | 0.021 | 0.011 | |
| 111-65-9 | n-Octane | ND | 0.79 | 0.079 | ND | 0.17 | 0.017 | |
| 127-18-4 | Tetrachloroethene | 53 | 0.16 | 0.079 | 7.7 | 0.023 | 0.012 | |
| 108-90-7 | Chlorobenzene | ND | 0.16 | 0.081 | ND | 0.034 | 0.018 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Date: 6/4/08 **1424**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG18B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-030

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00441

Date Collected: 5/18/08
 Date Received: 5/20/08
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): -3.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | 0.13 | 0.79 | 0.098 | 0.031 | 0.18 | 0.023 | J |
| 179601-23-1 | m,p-Xylenes | 0.60 | 0.79 | 0.21 | 0.14 | 0.18 | 0.047 | J |
| 75-25-2 | Bromoform | ND | 0.79 | 0.12 | ND | 0.076 | 0.012 | |
| 100-42-5 | Styrene | 0.35 | 0.79 | 0.12 | 0.082 | 0.19 | 0.028 | J |
| 95-47-6 | o-Xylene | 0.64 | 0.79 | 0.10 | 0.15 | 0.18 | 0.023 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.16 | 0.10 | ND | 0.023 | 0.015 | |
| 98-82-8 | Cumene | ND | 0.79 | 0.088 | ND | 0.16 | 0.018 | |
| 103-65-1 | n-Propylbenzene | 0.69 | 0.79 | 0.082 | 0.14 | 0.16 | 0.017 | J |
| 622-96-8 | 4-Ethyltoluene | 1.9 | 0.79 | 0.090 | 0.38 | 0.16 | 0.018 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 3.3 | 0.79 | 0.095 | 0.67 | 0.16 | 0.019 | |
| 98-83-9 | alpha-Methylstyrene | 0.30 | 0.79 | 0.12 | 0.062 | 0.16 | 0.024 | J |
| 95-63-6 | 1,2,4-Trimethylbenzene | 13 | 0.79 | 0.11 | 2.6 | 0.16 | 0.022 | |
| 100-44-7 | Benzyl Chloride | ND | 0.16 | 0.14 | ND | 0.031 | 0.026 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.16 | 0.098 | ND | 0.026 | 0.016 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.83 | 0.16 | 0.088 | 0.14 | 0.026 | 0.015 | |
| 135-98-8 | sec-Butylbenzene | 0.24 | 0.79 | 0.092 | 0.044 | 0.14 | 0.017 | J |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 0.62 | 0.79 | 0.10 | 0.11 | 0.14 | 0.019 | J |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.16 | 0.10 | ND | 0.026 | 0.017 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.79 | 0.12 | ND | 0.082 | 0.012 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.16 | 0.12 | ND | 0.021 | 0.016 | |
| 91-20-3 | Naphthalene | 18 | 0.32 | 0.12 | 3.4 | 0.060 | 0.022 | |
| 87-68-3 | Hexachlorobutadiene | 1.4 | 0.16 | 0.14 | 0.13 | 0.015 | 0.013 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.32 | 0.079 | ND | 0.058 | 0.014 | |
| 104-51-8 | n-Butylbenzene | 2.4 | 0.32 | 0.079 | 0.44 | 0.058 | 0.014 | M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

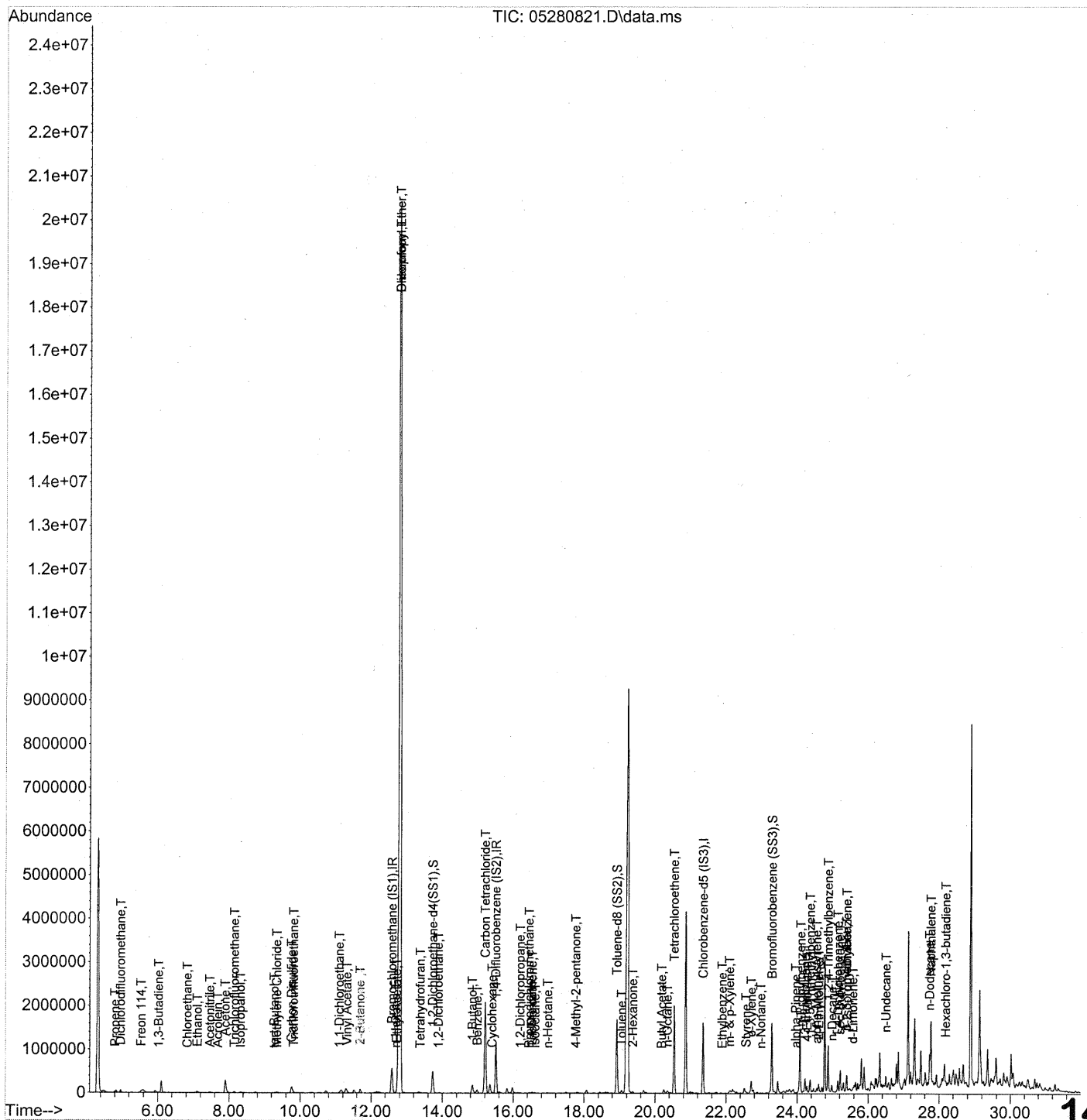
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: Date: 6/4/08 **1425**

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:31:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1426

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:31:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 321448 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1328682 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 635385 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | | |
|---------------------------------|--------|-----|---------|--------|----|------|----------------------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 500358 | 22.465 | ng | 0.00 | |
| Spiked Amount | 25.000 | | | | | | Recovery = 89.84% ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1414292 | 24.784 | ng | 0.00 | |
| Spiked Amount | 25.000 | | | | | | Recovery = 99.12% ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 593994 | 25.598 | ng | 0.00 | |
| Spiked Amount | 25.000 | | | | | | Recovery = 102.40% ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------------------|-------|--------|
| 2) Propene | 4.80 | 42 | 15841 | 0.624 | ng | # 67 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 62204 | 1.329 | ng | 99 |
| 4) Chloromethane | 5.30 | 50 | 598 | N.D. | | |
| 5) Freon 114 | 5.54 | 135 | 1391 | 0.060 | ng | 69 |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 6.02 | 54 | 2196 | 0.097 | ng | # 53 |
| 8) Bromomethane | 6.50 | 94 | 204 | N.D. | | |
| 9) Chloroethane | 6.83 | 64 | 3709 | 0.258 | ng | 100 |
| 10) Ethanol | 7.11 | 45 | 59367m | 3.513 | ng | |
| 11) Acetonitrile | 7.47 | 41 | 29628 | 0.606 | ng | 85 |
| 12) Acrolein | 7.69 | 56 | 10408 | 0.862 | ng | 93 |
| 13) Acetone | 7.89 | 58 | 143250m | 8.278 | ng | |
| 14) Trichlorofluoromethane | 8.15 | 101 | 27192 | 0.677 | ng | 98 |
| 15) Isopropanol | 8.33 | 45 | 40206 | 0.729 | ng | 89 |
| 16) Acrylonitrile | 8.67 | 53 | 1032 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.28 | 59 | 10625m | 0.226 | ng | |
| 19) Methylene Chloride | 9.35 | 84 | 11563 | 0.598 | ng | # 79 |
| 20) Allyl Chloride | 9.56 | 41 | 64 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 5361 | 0.294 | ng | 99 |
| 22) Carbon Disulfide | 9.76 | 76 | 339959 | 4.632 | ng | 100 |
| 23) trans-1,2-Dichloroethene | 10.72 | 61 | 541 | N.D. | | |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 14380 | 0.429 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.23 | 73 | 514 | N.D. | | |
| 26) Vinyl Acetate | 11.31 | 86 | 7628m | 2.385 | ng | |
| 27) 2-Butanone | 11.70 | 72 | 32099 | 2.542 | ng | # 90 |
| 28) cis-1,2-Dichloroethene | 12.17 | 61 | 54 | N.D. | | |
| 29) Diisopropyl Ether | 12.81 | 87 | 3612144 | 233.408 | ng | NR# 1 |
| 30) Ethyl Acetate | 12.73 | 61 | 3296 | 0.483 | ng | # 22 |
| 31) n-Hexane | 12.70 | 57 | 8440 | 0.245 | ng | # 1427 |

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:31:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-----------------------|---------|----------|
| 32) Chloroform | 12.81 | 83 | 27814042 | 948.892 ng | see dil | 90 |
| 34) Tetrahydrofuran | 13.39 | 72 | 3068 | 0.254 ng | # | 75 |
| 35) Ethyl tert-Butyl Ether | 13.52 | 87 | 176 | N.D. ✓ | | |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 2720 | 0.096 ng | | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 873 | N.D. ✓ | | |
| 39) Isopropyl Acetate | 14.97 | 61 | 231 | N.D. | | |
| 40) 1-Butanol | 14.85 | 56 | 168906 | 9.249 ng | | 88 |
| 41) Benzene | 14.99 | 78 | 84941 | 1.221 ng | | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 1829622 | 68.288 ng | | 99 |
| 43) Cyclohexane | 15.41 | 84 | 5901 | 0.218 ng | # | 1 |
| 44) tert-Amyl Methyl Ether | 15.89 | 73 | 1530 | N.D. ✓ | | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 4308 | 0.231 ng | | 89 |
| 46) Bromodichloromethane | 16.45 | 83 | 5335 | 0.227 ng | | 78 |
| 47) Trichloroethene | 16.54 | 130 | 9373 | 0.439 ng | | 92 |
| 48) 1,4-Dioxane | 16.52 | 88 | 798 | 0.061 ng | AR | 81 |
| 49) Isooctane | 16.62 | 57 | 9755 | 0.122 ng | # | 45 |
| 50) Methyl Methacrylate | 16.72 | 100 | 148 | N.D. ✓ | | |
| 51) n-Heptane | 16.98 | 71 | 2462 | 0.133 ng | # | 85 |
| 52) cis-1,3-Dichloropropene | 17.81 | 75 | 130 | N.D. ✓ | | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 3968 | 0.215 ng | # | 50 |
| 54) trans-1,3-Dichloropropene | 18.45 | 75 | 82 | N.D. ✓ | | |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 845 | N.D. ✓ | | |
| 58) Toluene | 19.06 | 91 | 54144 | 0.698 ng | | 100 |
| 59) 2-Hexanone | 19.37 | 43 | 25893 | 0.484 ng | | 76 |
| 60) Dibromochloromethane | 19.61 | 129 | 356 | N.D. ✓ | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. ✓ | | |
| 62) Butyl Acetate | 20.19 | 43 | 4878 | 0.090 ng | | 81 |
| 63) n-Octane | 20.35 | 57 | 1957 | 0.114 ng | AR | 80 |
| 64) Tetrachloroethene | 20.54 | 166 | 762673 | 33.229 ng | | 98 |
| 65) Chlorobenzene | 21.42 | 112 | 2160 | N.D. ✓ | | |
| 66) Ethylbenzene | 21.89 | 91 | 7451 | 0.084 ng | | 99 |
| 67) m- & p-Xylene | 22.10 | 91 | 22410 | 0.377 ng | | 82 |
| 68) Bromoform | 22.20 | 173 | 133 | N.D. ✓ | | |
| 69) Styrene | 22.57 | 104 | 11825 | 0.222 ng | | 96 |
| 70) o-Xylene | 22.71 | 91 | 25902 | 0.403 ng | # | 1 |
| 71) n-Nonane | 22.98 | 43 | 4722 | 0.104 ng | | 83 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 314 | N.D. ✓ | | |
| 74) Cumene | 23.46 | 105 | 4116 | N.D. ✓ | | |
| 75) alpha-Pinene | 23.97 | 93 | 2388 | 0.054 ng | # | 46 |
| 76) n-Propylbenzene | 24.10 | 91 | 47339 | 0.435 ng | # | 89 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 224076 | 2.462 ng | | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 100937 | 1.189 ng | | 99 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 159063 | 2.075 ng | | 100 |

1428

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:31:45 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

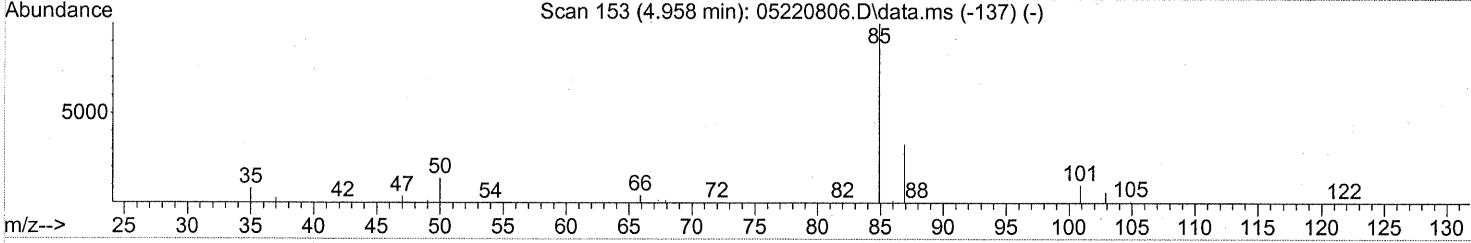
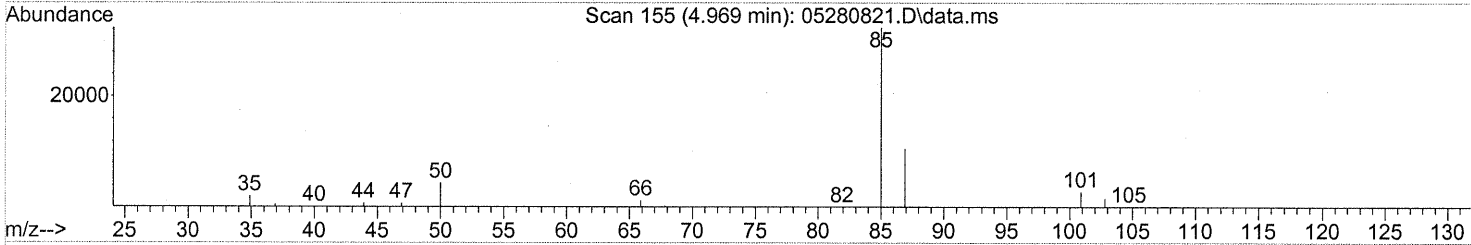
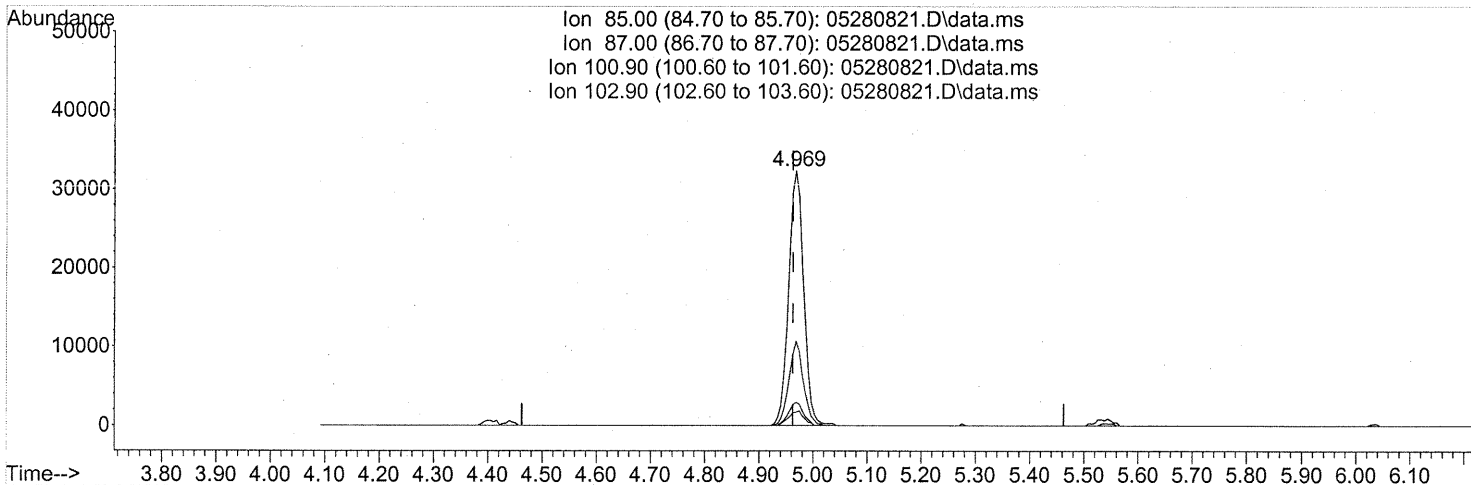
| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|-------------------------------|-------|------|----------|------------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 7913 | 0.191 ng | 82 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 119627 | 1.297 ng | 99 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 631212 | 8.087 ng | 91 |
| 83) n-Decane | 24.98 | 57 | 31675 | 0.738 ng | # 56 |
| 84) Benzyl Chloride | 25.05 | 91 | 1003 | N.D. ✓ | |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 2305 | N.D. ✓ | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 24911 | 0.527 ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 15146 | 0.152 ng | 81 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 32178 | 0.392 ng | # 35 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 222264 | 2.910 ng | 87 |
| 90) 1,2-Dichlorobenzene | 25.57 | 146 | 552 | N.D. ✓ | |
| 91) d-Limonene | 25.57 | 68 | 10925 | 0.351 ng | # 70 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.50 | 157 | 560 | N.D. ✓ | |
| 93) n-Undecane | 26.50 | 57 | 101351 | 2.255 ng | # 65 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 598 | N.D. ✓ | |
| 95) Naphthalene | 27.77 | 128 | 1158385 | 11.252 ng | 98 |
| 96) n-Dodecane | 27.73 | 57 | 226161 | 5.060 ng | 77 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 19754 | 0.875 ng | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.33ng

response 62204

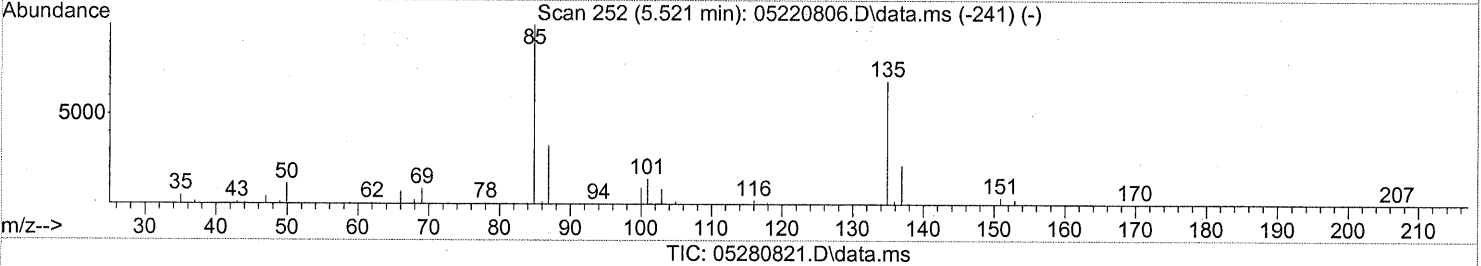
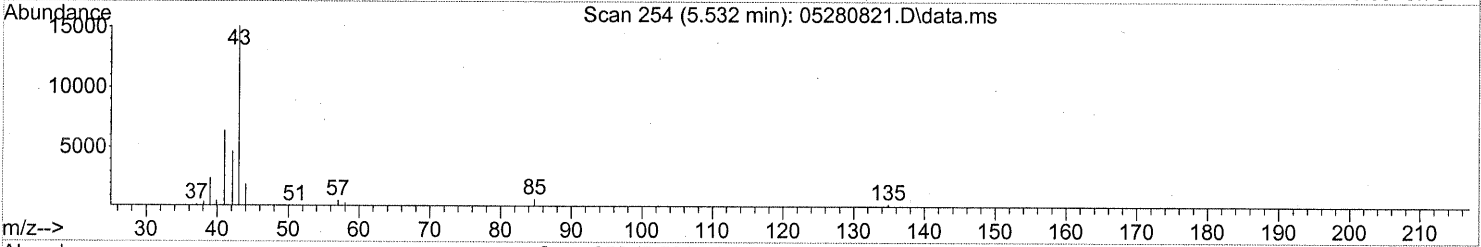
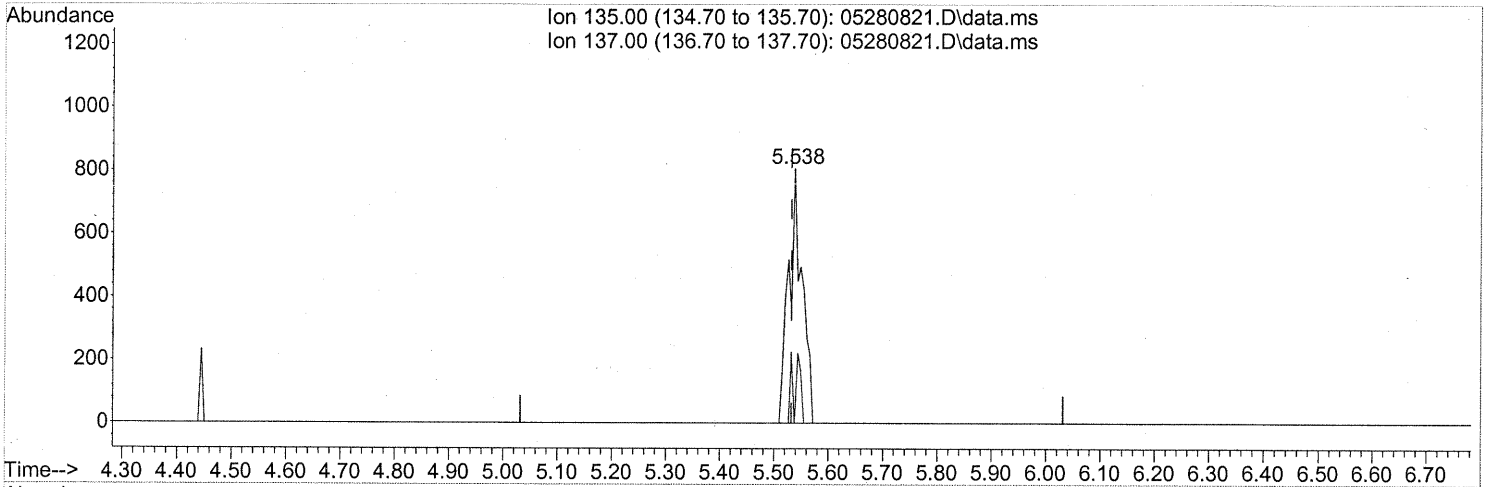
| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 31.64 |
| 100.90 | 9.30 | 8.86 |
| 102.90 | 6.00 | 5.61 |

1430

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280821.D
Acq On : 29 May 2008 00:53
Operator : WA
Sample : P0801483-030 (1000ml)
Misc : ENSR SG18B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



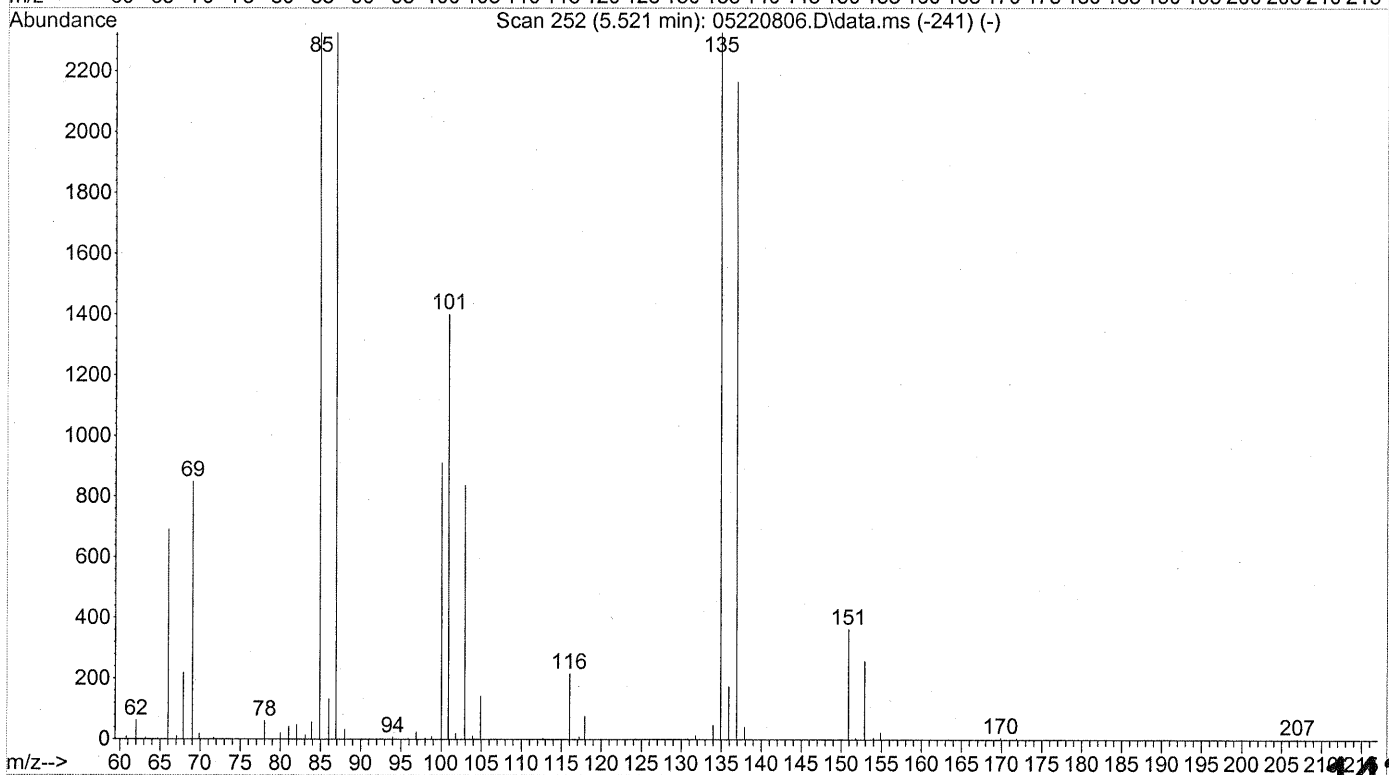
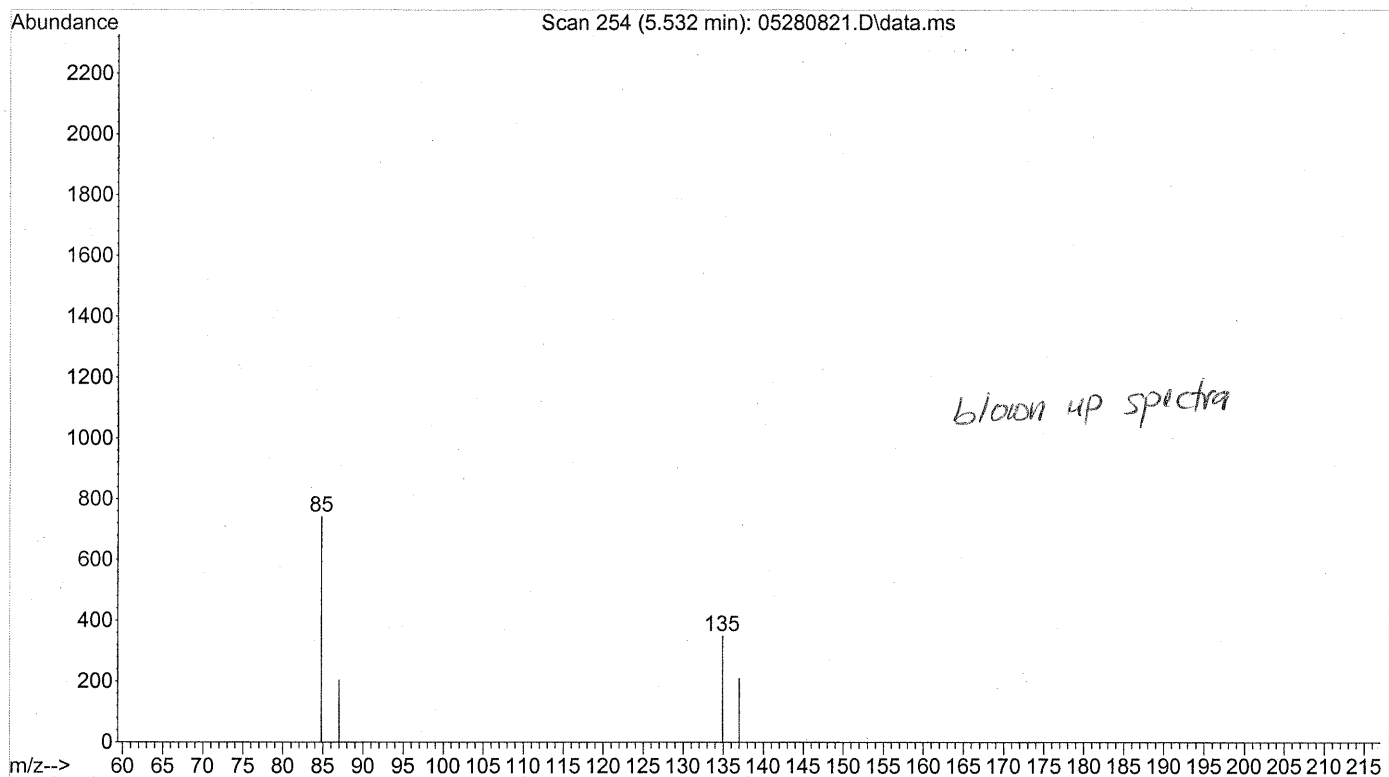
(5) Freon 114 (T)
5.538min (+0.006) 0.06ng
response 1391

| Ion | Exp% | Act% |
|--------|-------|-------|
| 135.00 | 100 | 100 |
| 137.00 | 31.50 | 14.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

see blown up spectra

1431

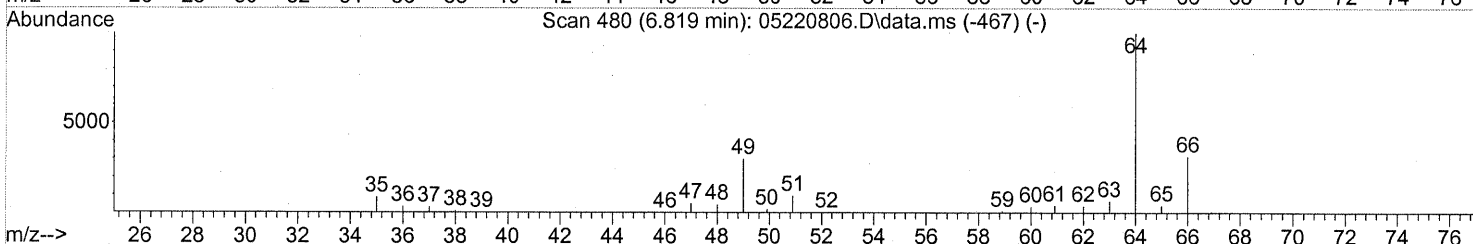
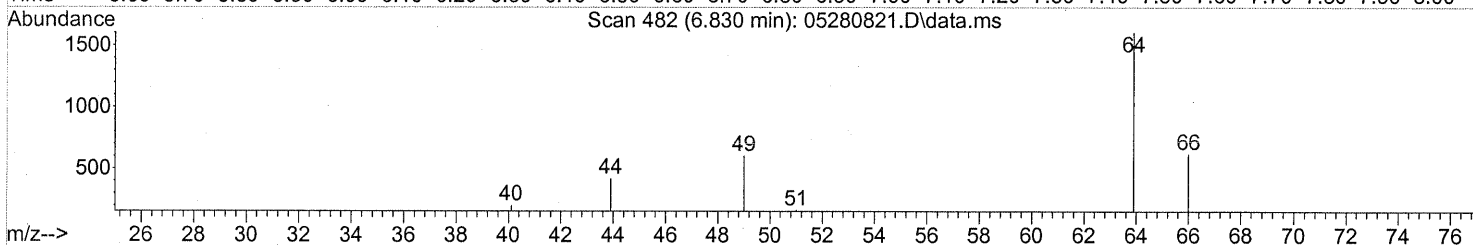
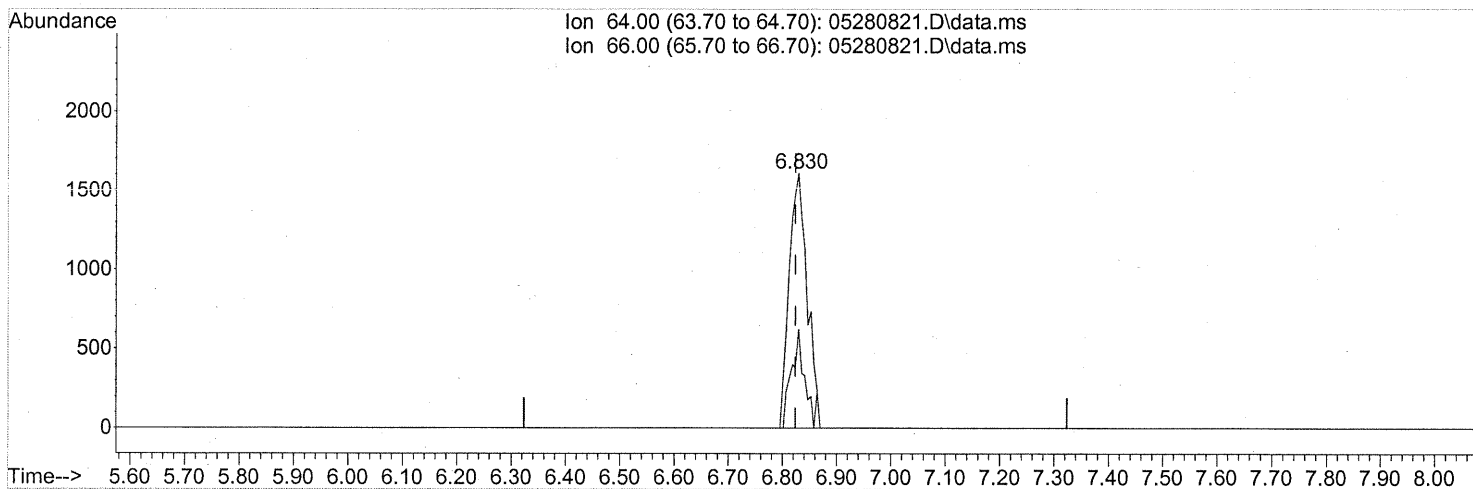
File : J:\MS13\DATA\2008_05\28\05280821.D
Operator : WA
Acquired : 29 May 2008 00:53 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-030 (1000ml)
Misc Info : ENSR SG18B-05 (-3.2, 3.5)
Vial Number: 2



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

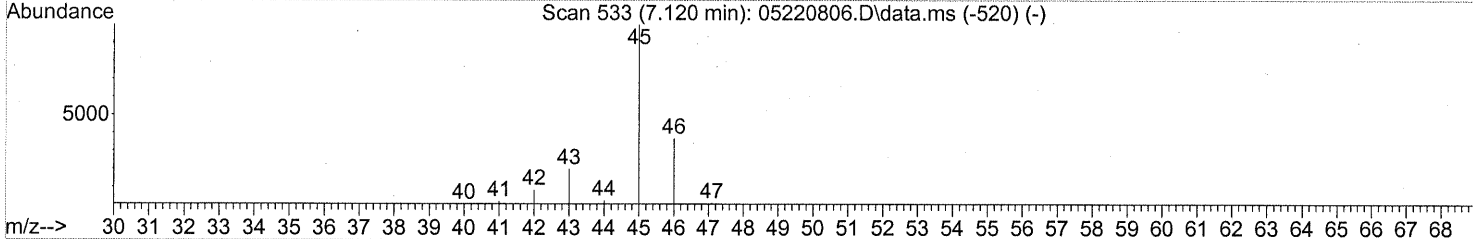
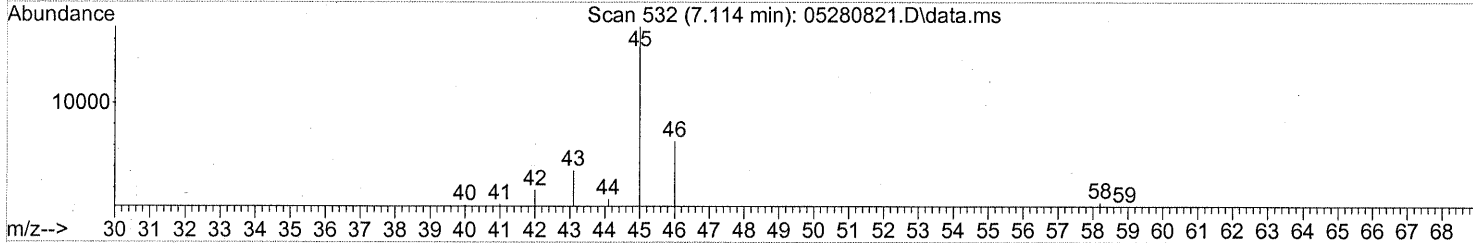
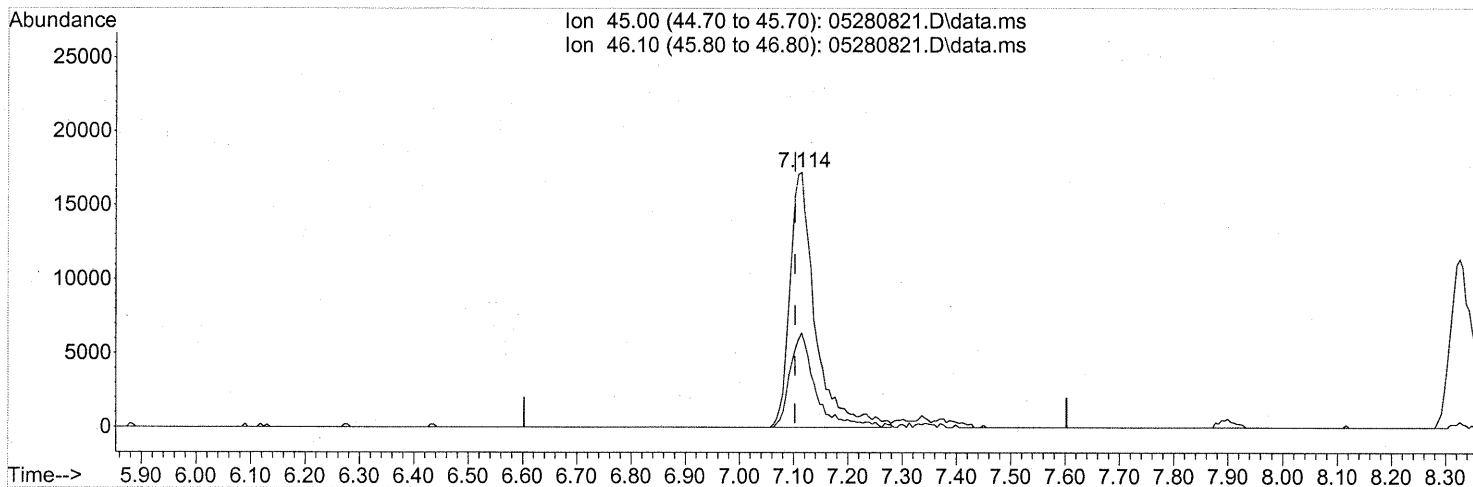
(9) Chloroethane (T)
 6.830min (+0.006) 0.26ng
 response 3709

| Ion | Exp% | Act% |
|-------|-------|-------|
| 64.00 | 100 | 100 |
| 66.00 | 29.60 | 29.66 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280821.D
Acq On : 29 May 2008 00:53
Operator : WA
Sample : P0801483-030 (1000ml)
Misc : ENSR SG18B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

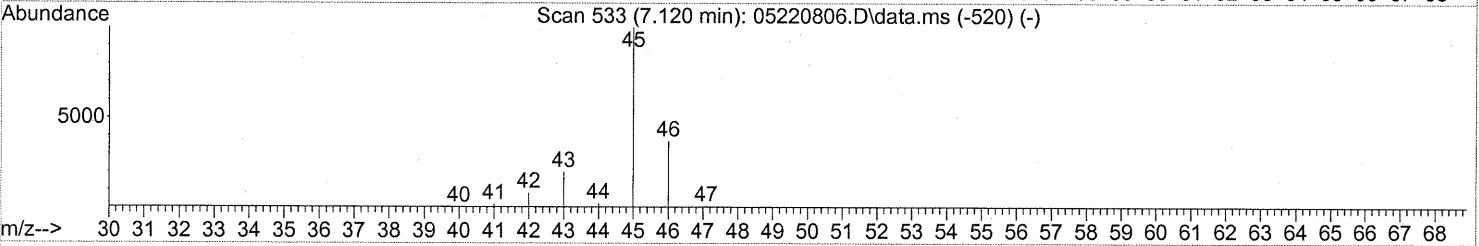
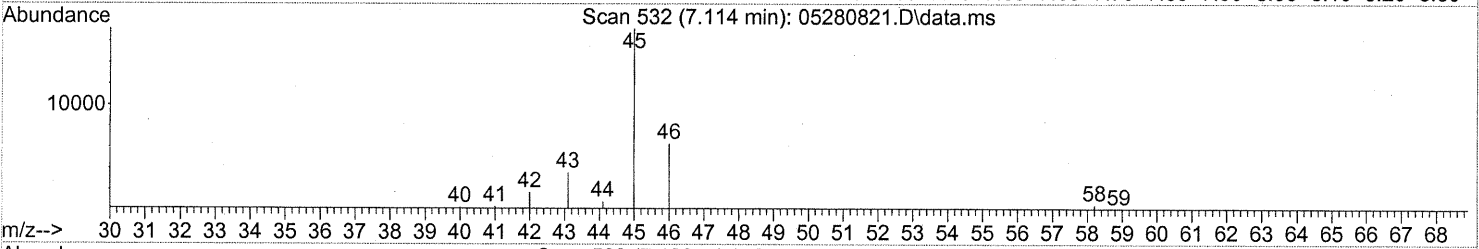
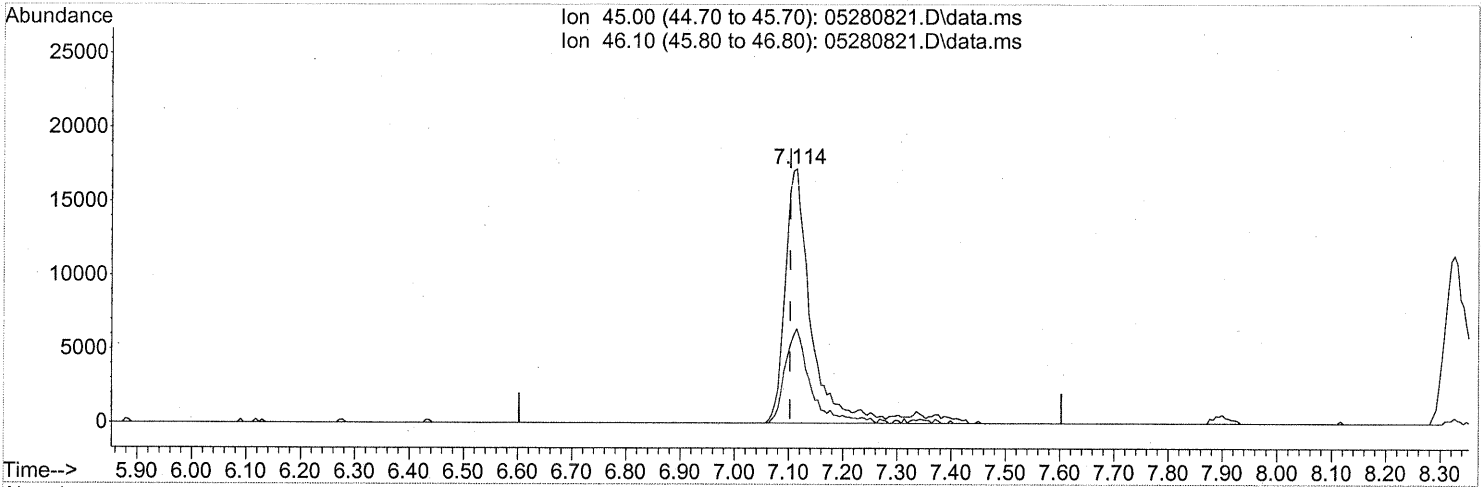


(10) Ethanol (T)
7.114min (+0.011) 3.28ng
response 55507
Ion Exp% Act%
45.00 100 100
46.10 41.00 36.93
0.00 0.00 0.00
0.00 0.00 0.00

tailing

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 3.51ng m

response 59367

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 34.53 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

incl. tailing

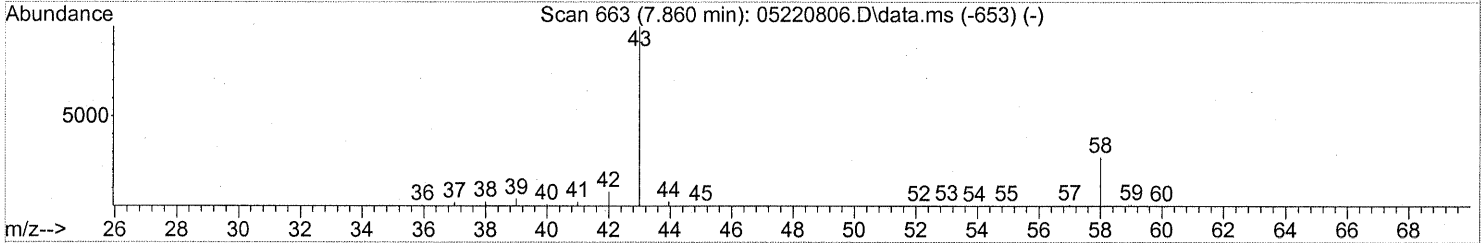
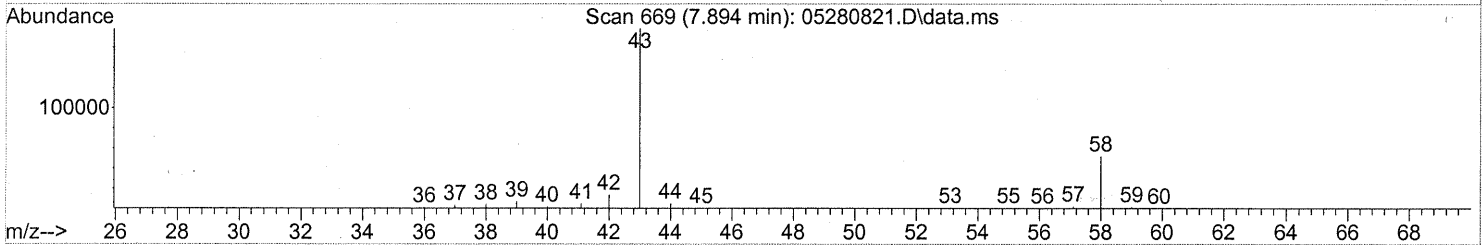
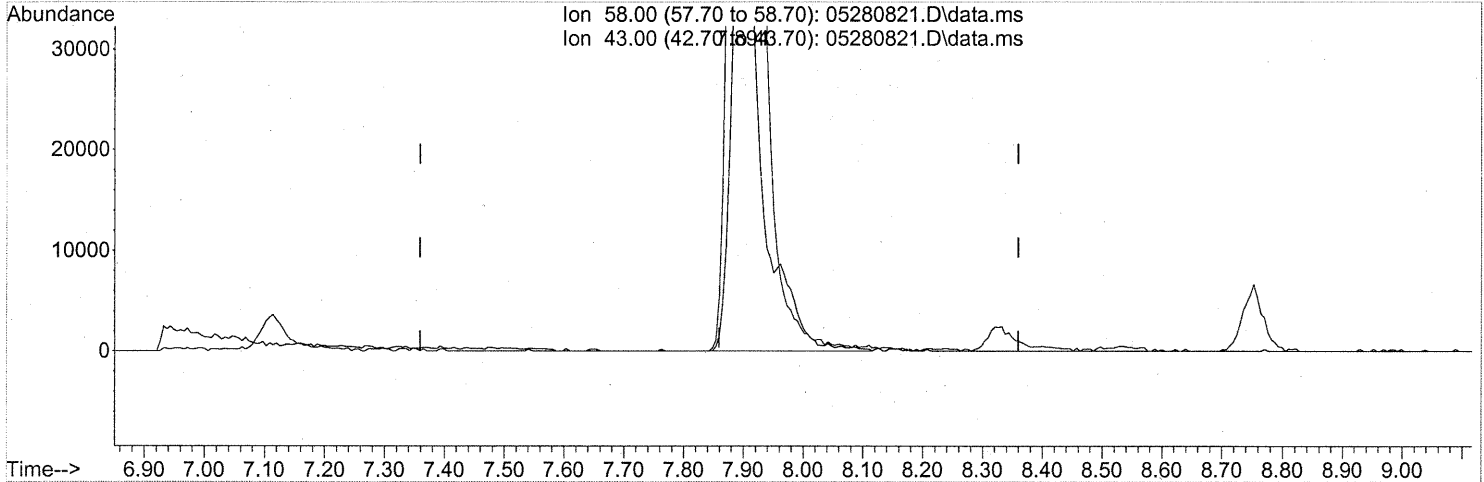
WA 5/31/08

P 05/2/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)

7.894min (+0.034) 9.49ng

response 164171

interf. shoulder

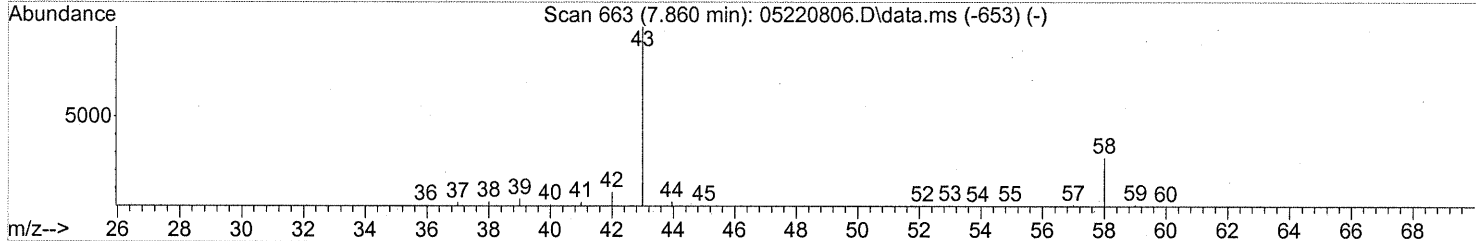
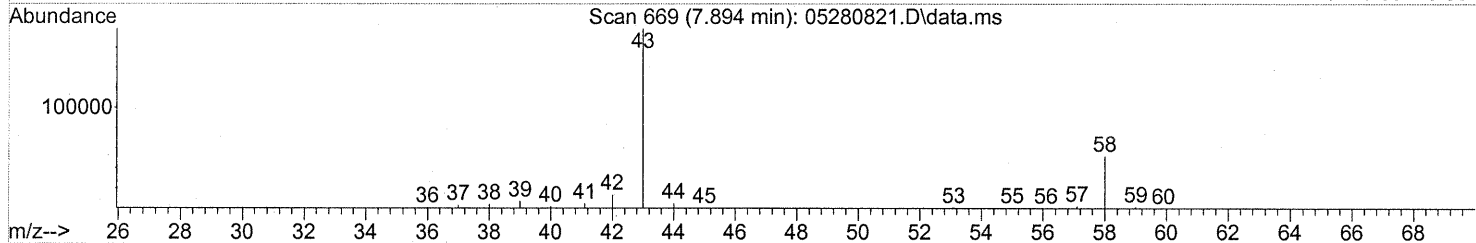
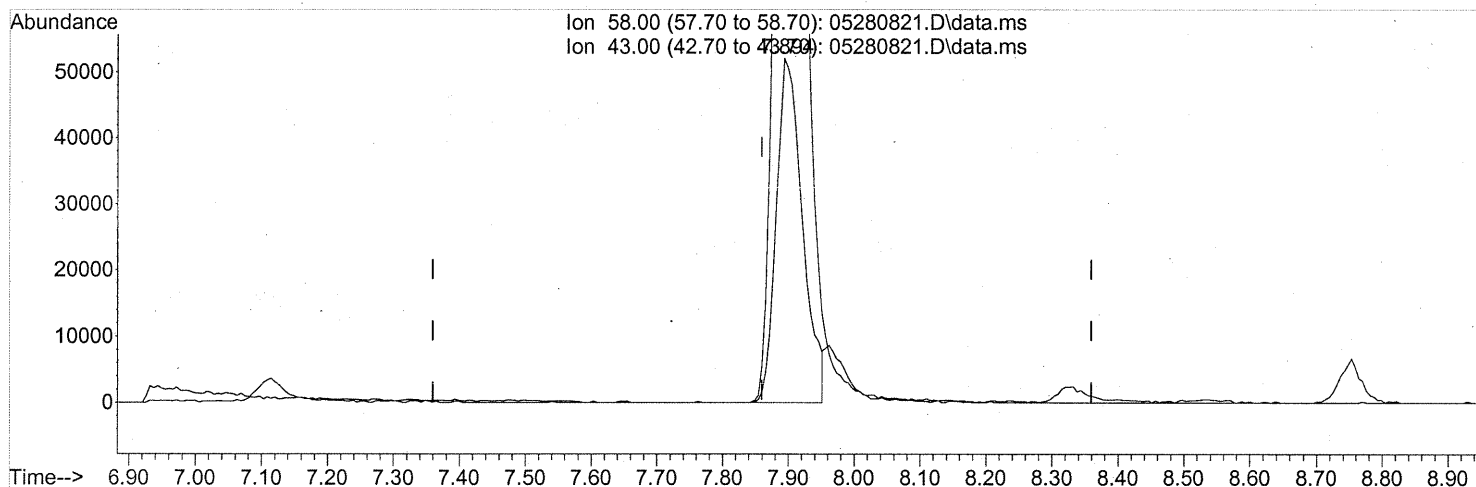
| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 318.24# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1436

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280821.D
Acq On : 29 May 2008 00:53
Operator : WA
Sample : P0801483-030 (1000ml)
Misc : ENSR SG18B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)
7.894min (+0.034) 8.28ng m
response 143250

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 364.71# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1070 shoulder

5/31/08

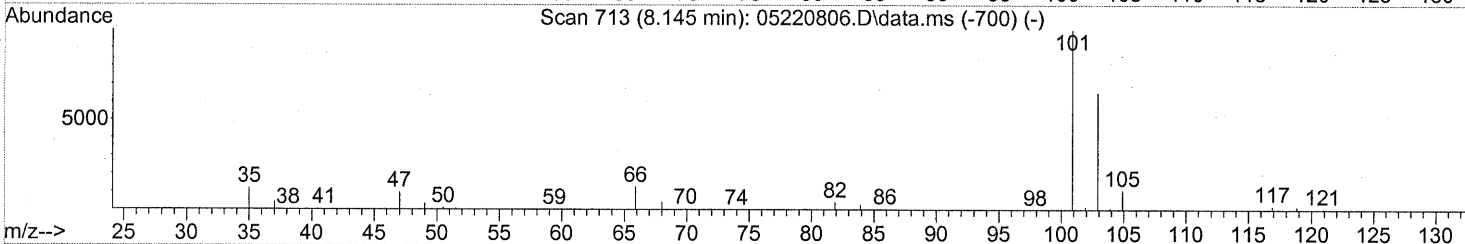
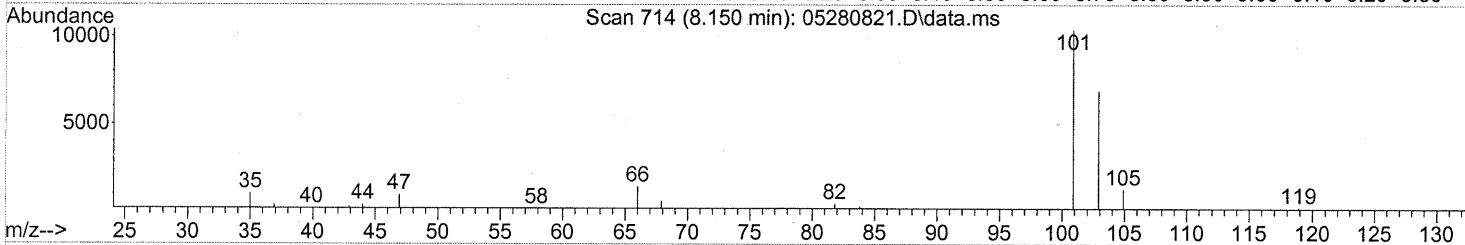
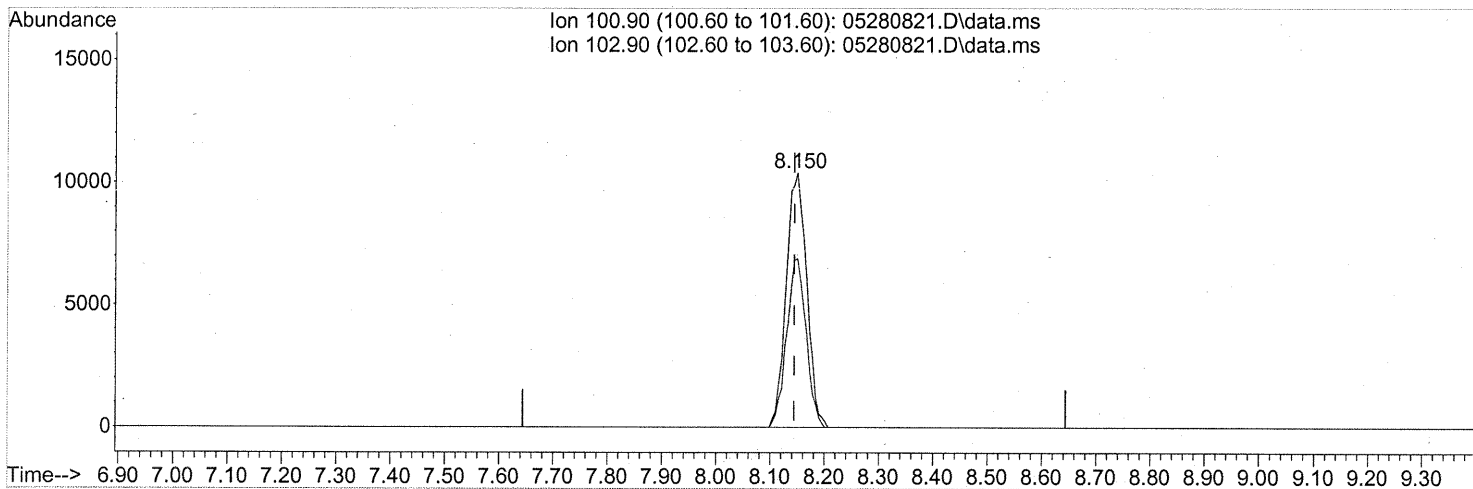
P 06/02/08

1437

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.68ng

response 27192

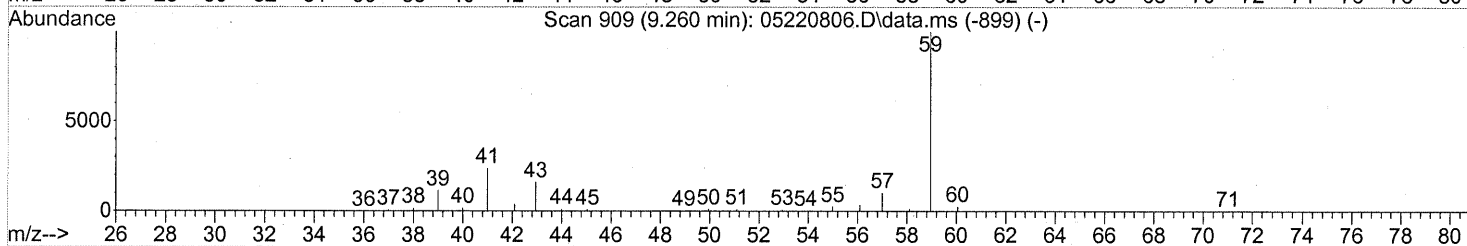
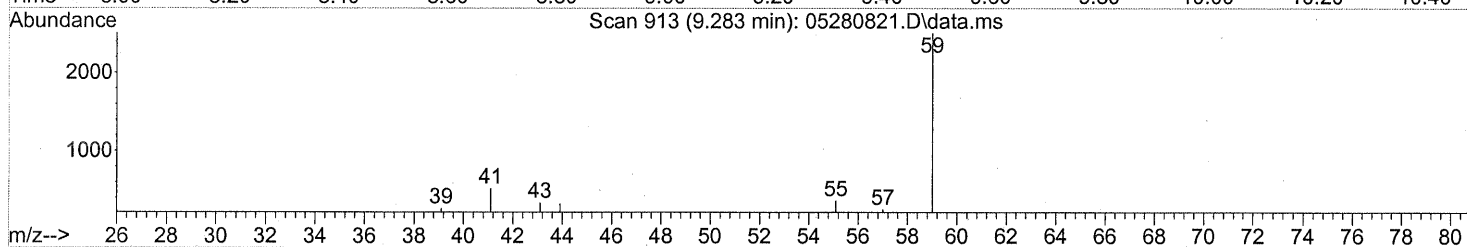
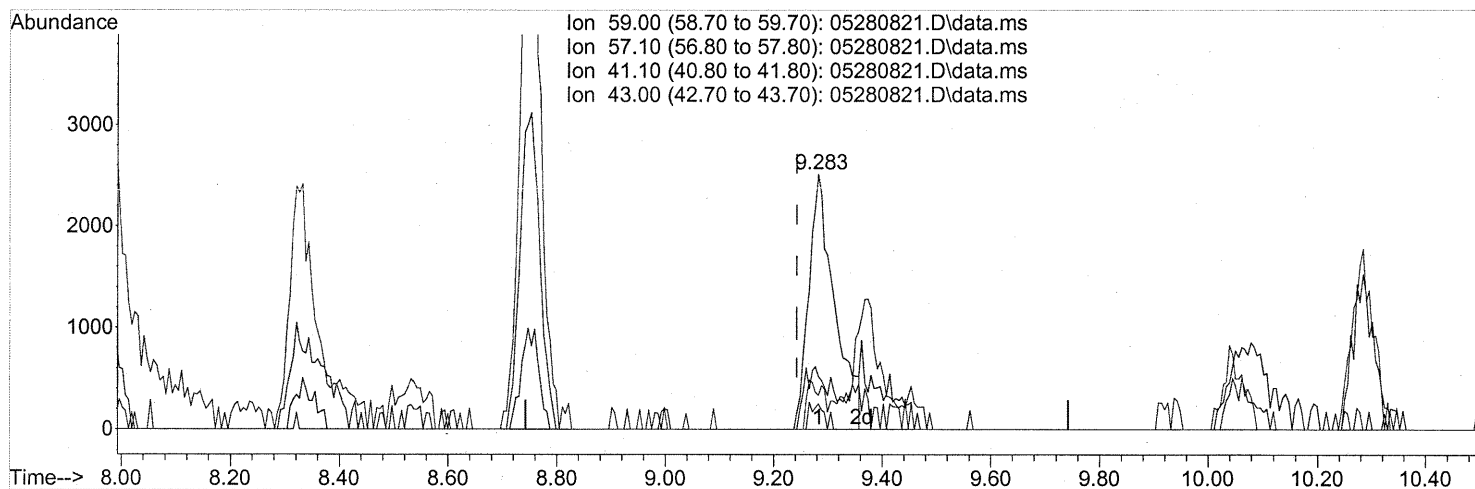
| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 62.85 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1438

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.283min (+0.040) 0.18ng

response 8344

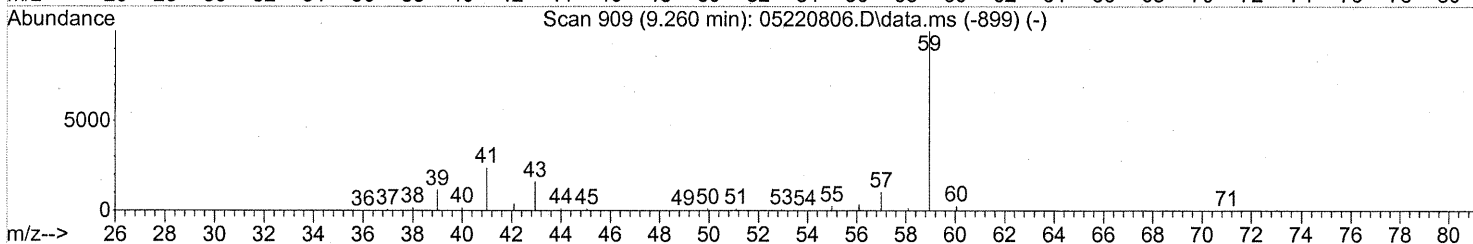
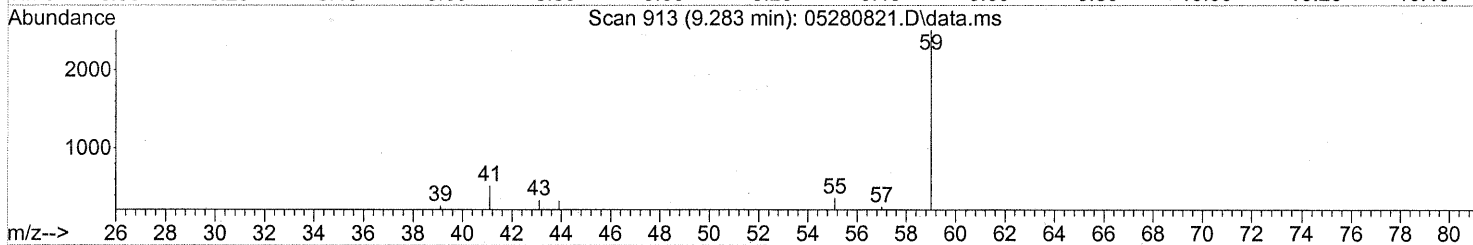
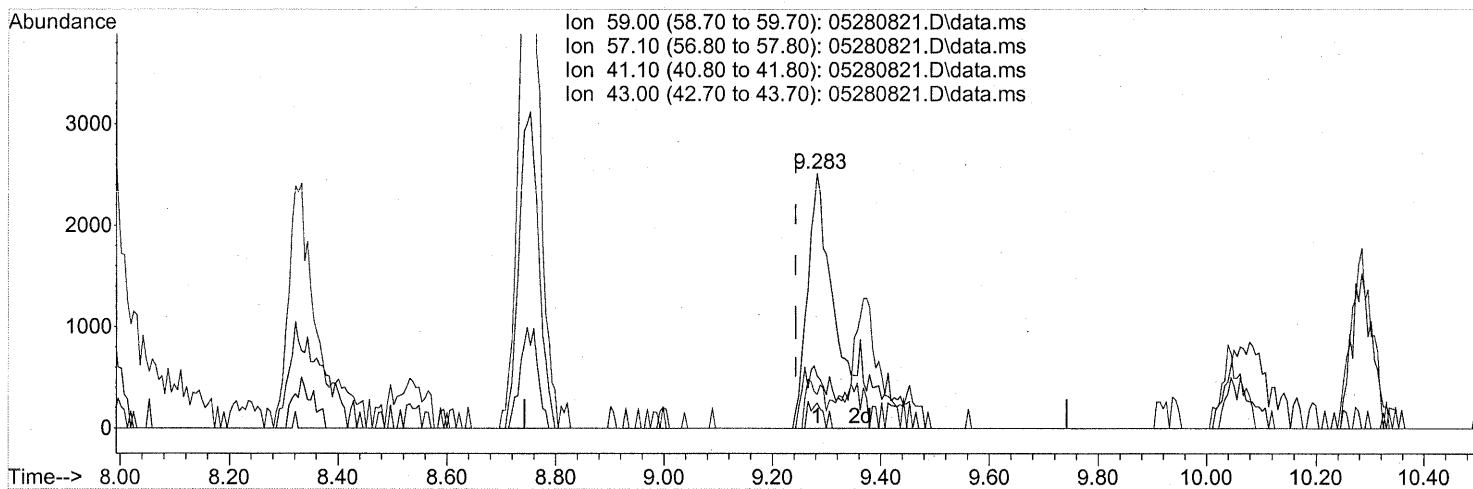
split peaks

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 5.79 |
| 41.10 | 20.10 | 25.53 |
| 43.00 | 12.30 | 18.89 |

1439

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.283min (+0.040) 0.23ng m

response 10625

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 4.55 |
| 41.10 | 20.10 | 20.05 |
| 43.00 | 12.30 | 14.83 |

int. whole peaks

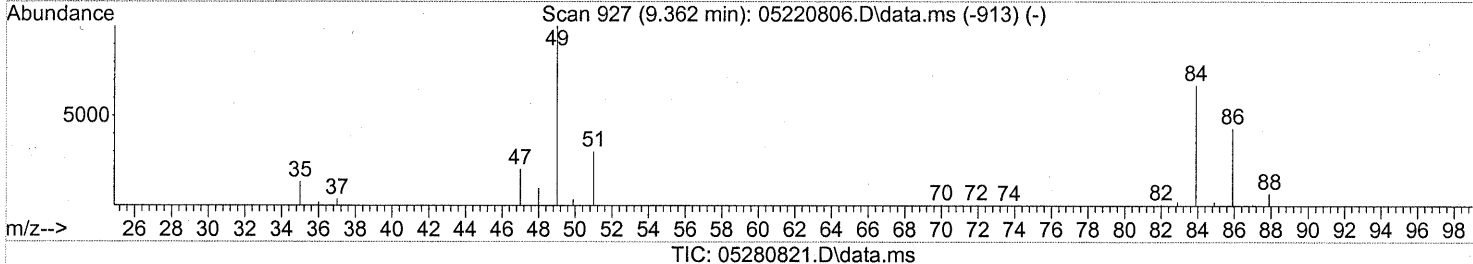
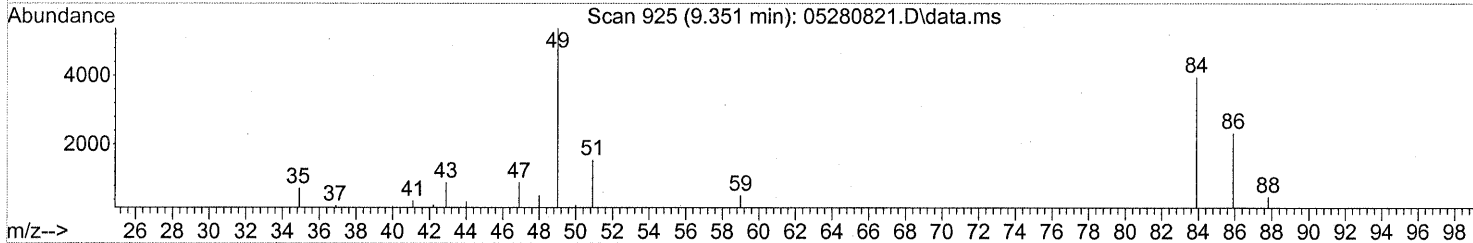
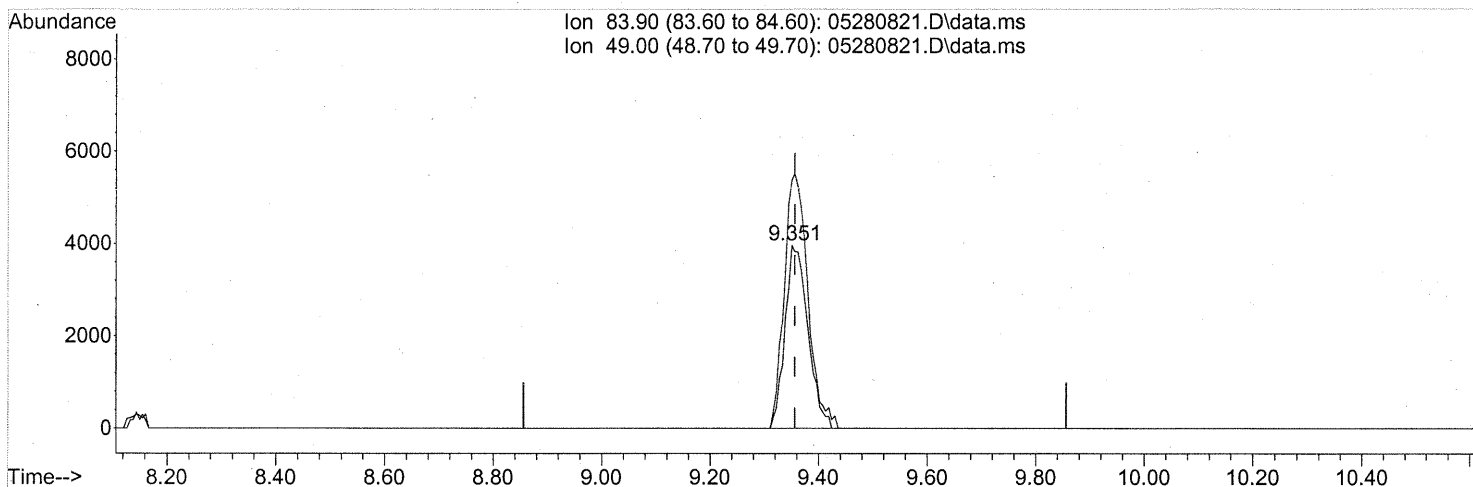
WA 5/31/08

P 05/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280821.D
Acq On : 29 May 2008 00:53
Operator : WA
Sample : P0801483-030 (1000ml)
Misc : ENSR SG18B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.351min (-0.006) 0.60ng

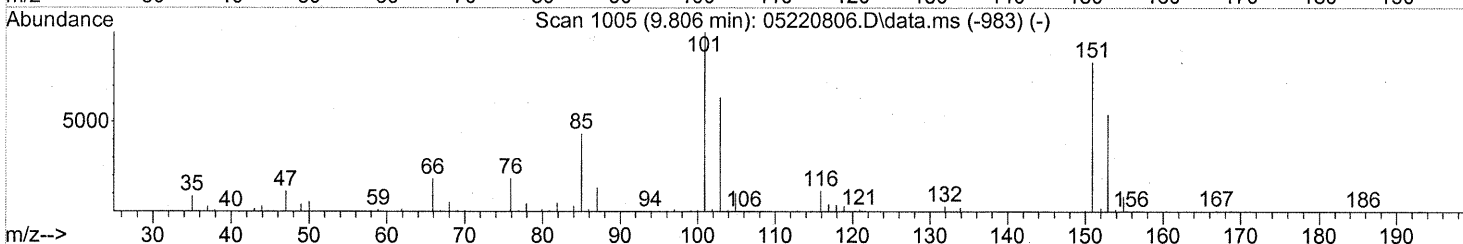
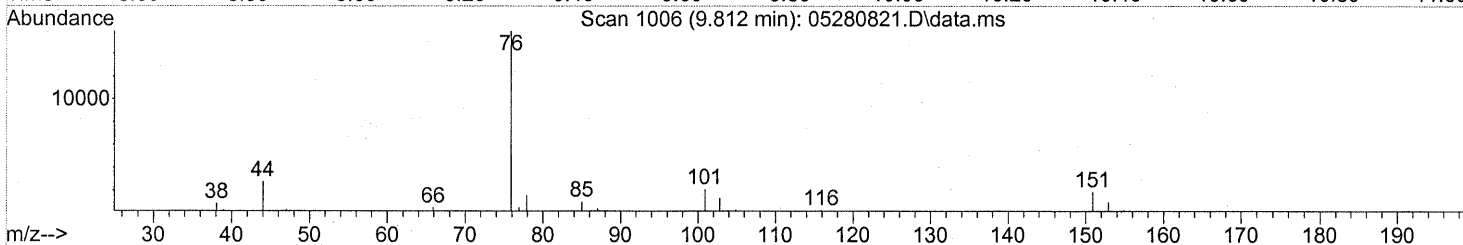
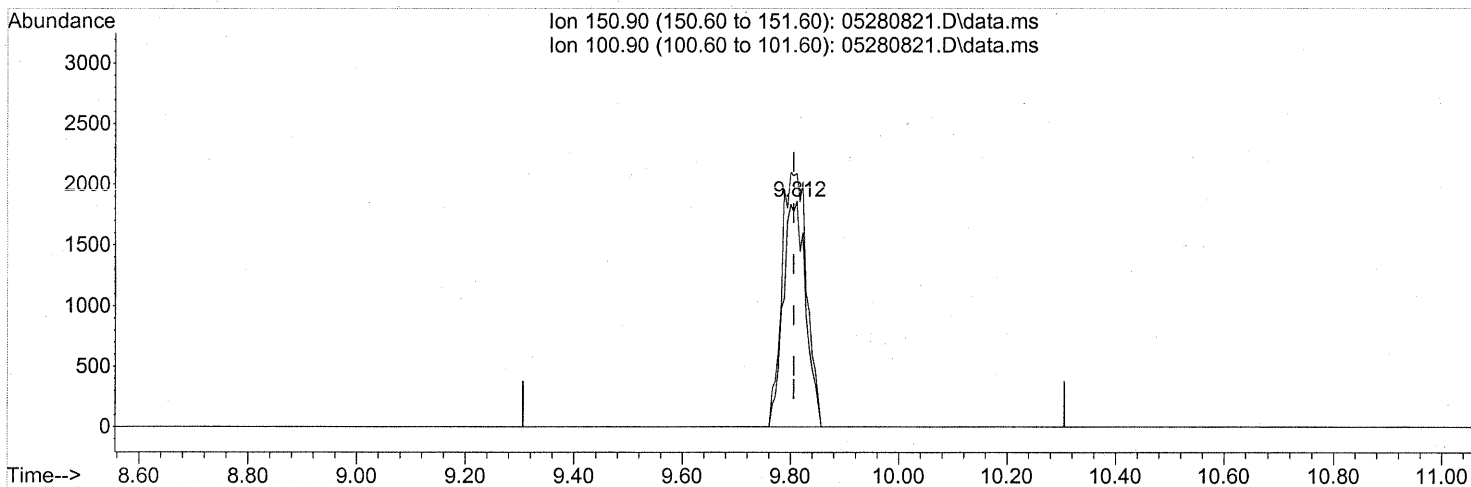
response 11563

| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 144.10# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.29ng

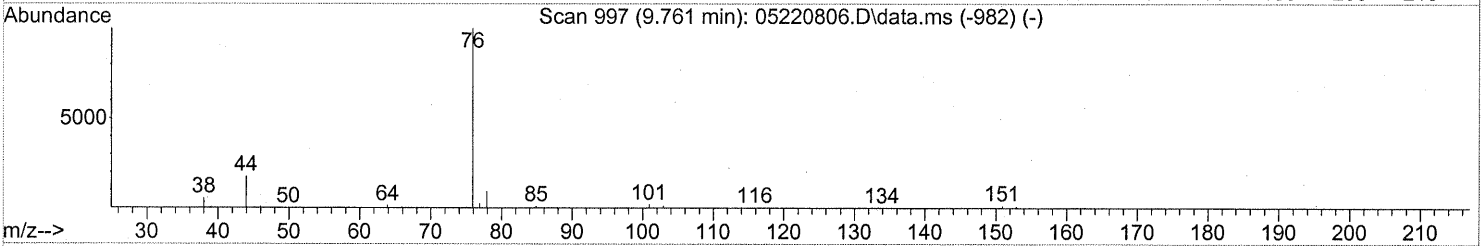
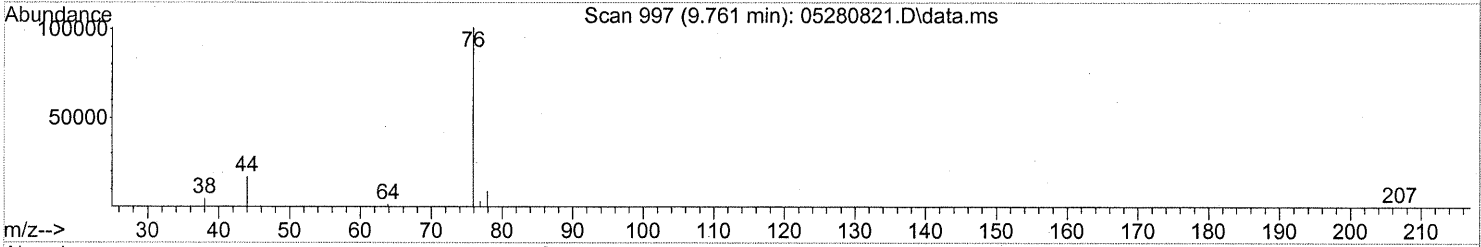
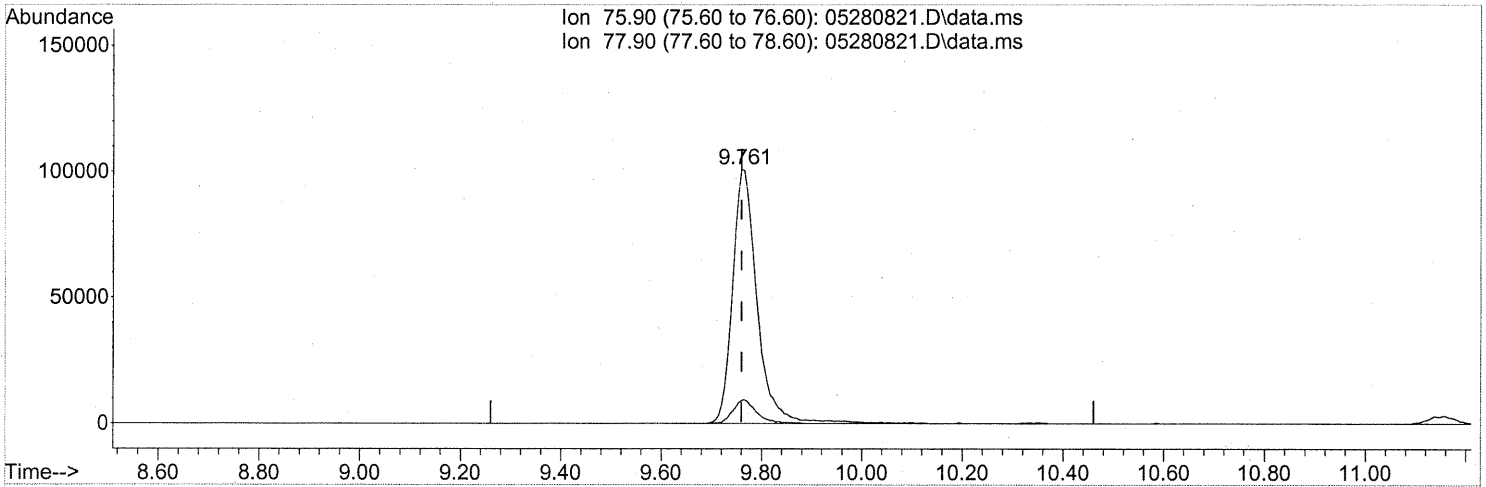
response 5361

| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 124.79 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1442

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(22) Carbon Disulfide (T)

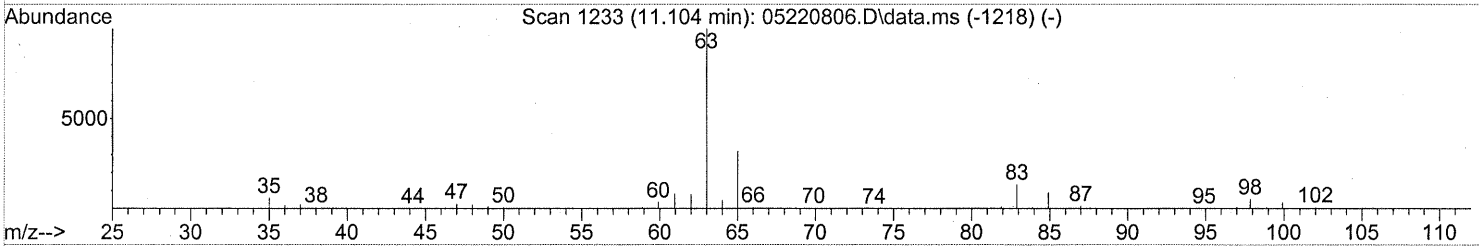
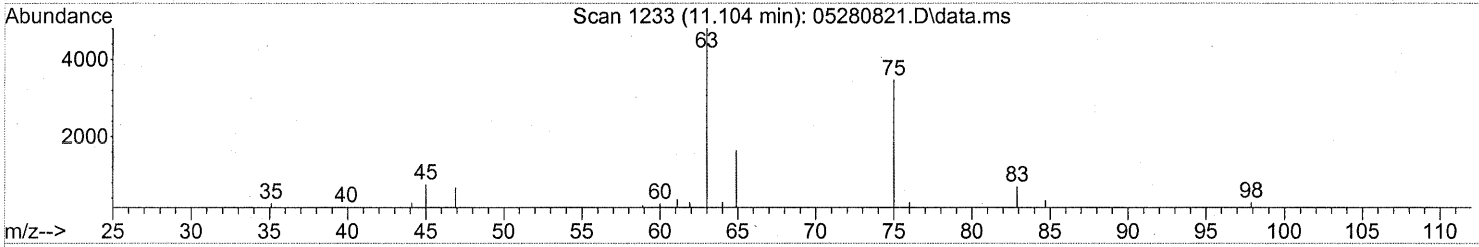
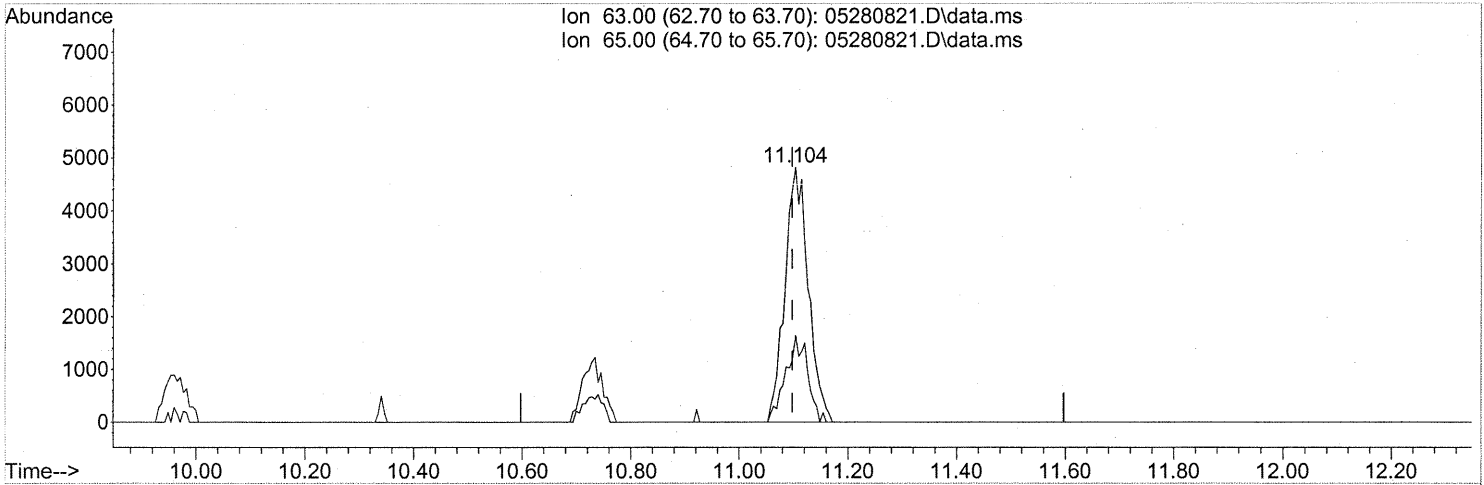
9.761min (-0.000) 4.63ng

response 339959

| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 8.78 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(24) 1,1-Dichloroethane (T)

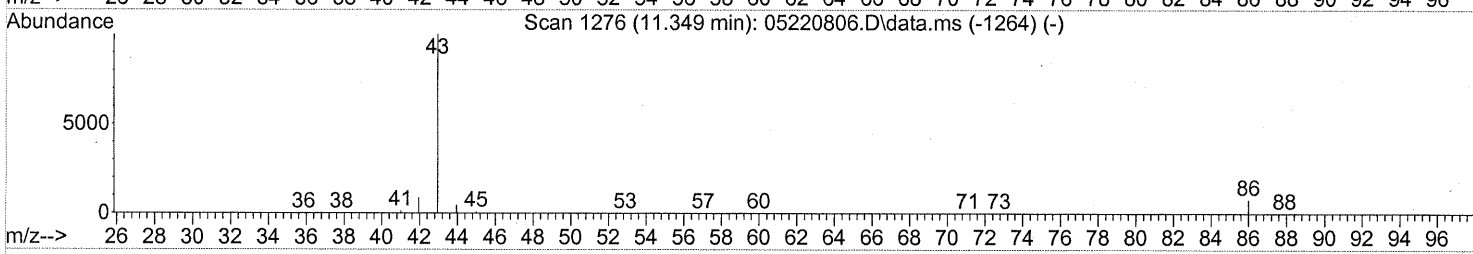
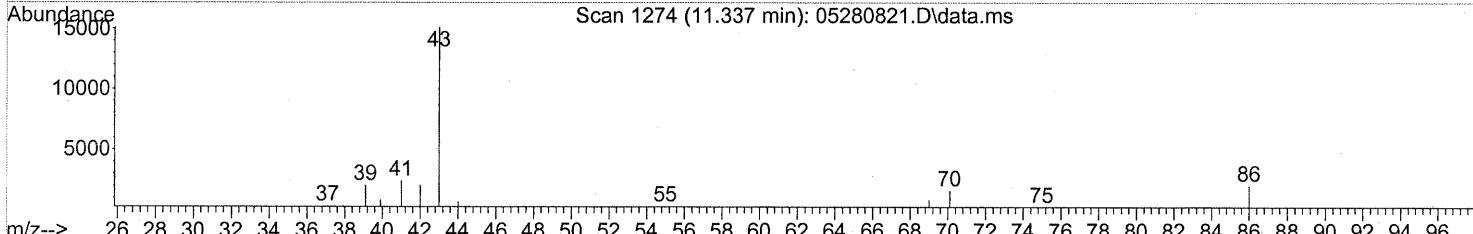
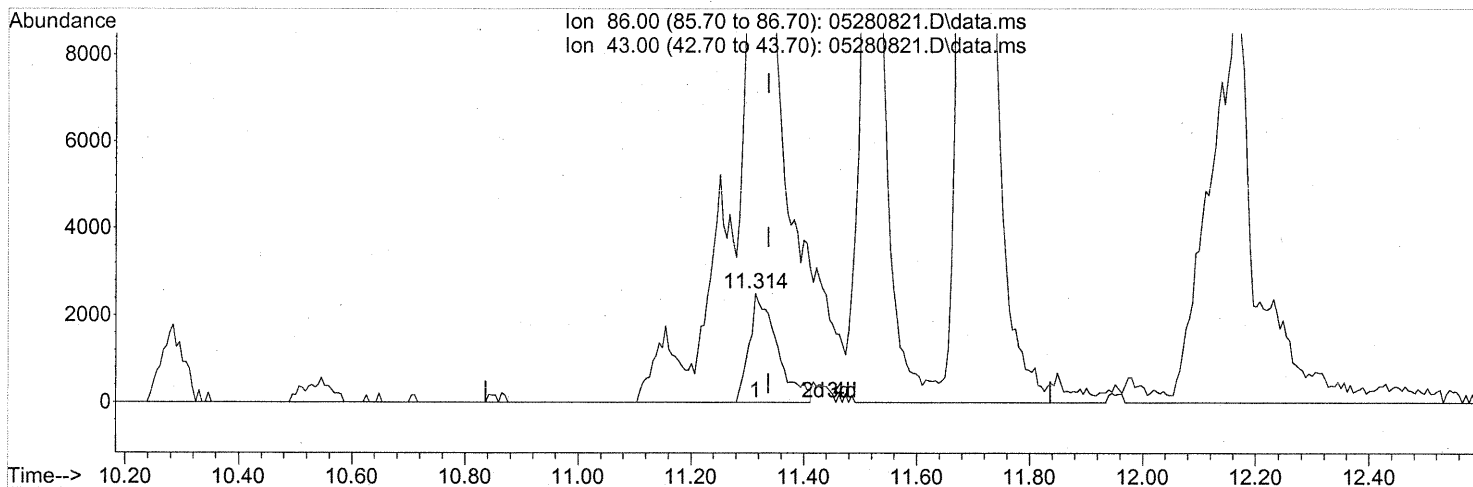
11.104min (+0.006) 0.43ng

response 14380

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 65.00 | 29.10 | 31.53 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280821.D
Acq On : 29 May 2008 00:53
Operator : WA
Sample : P0801483-030 (1000ml)
Misc : ENSR SG18B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05280821.D\data.ms

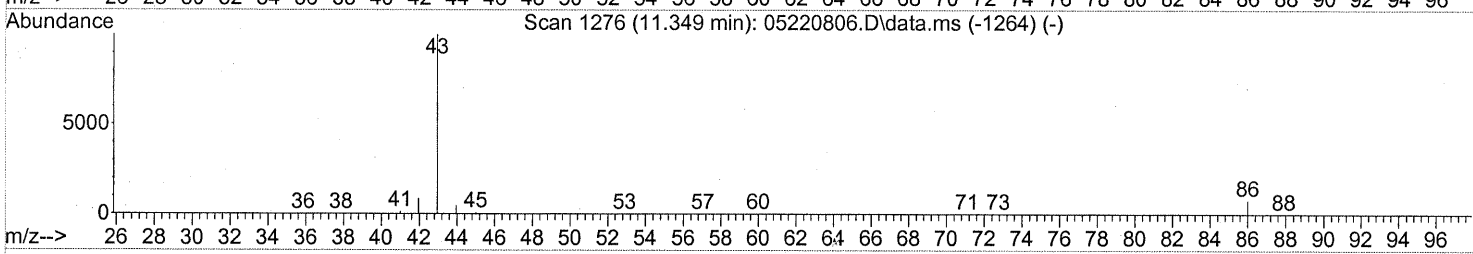
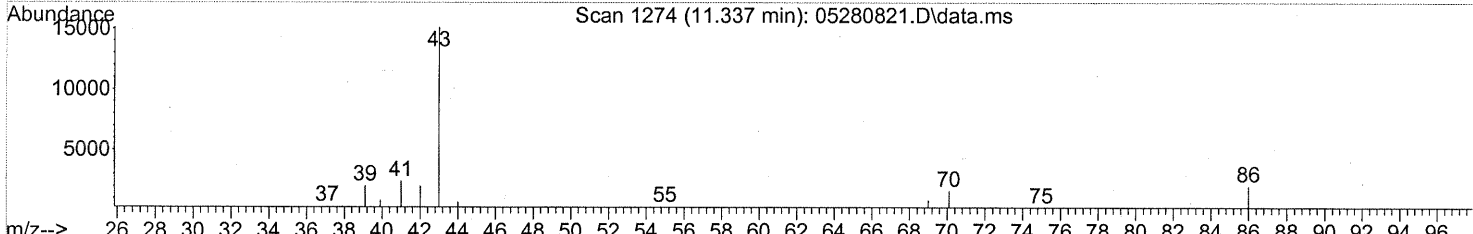
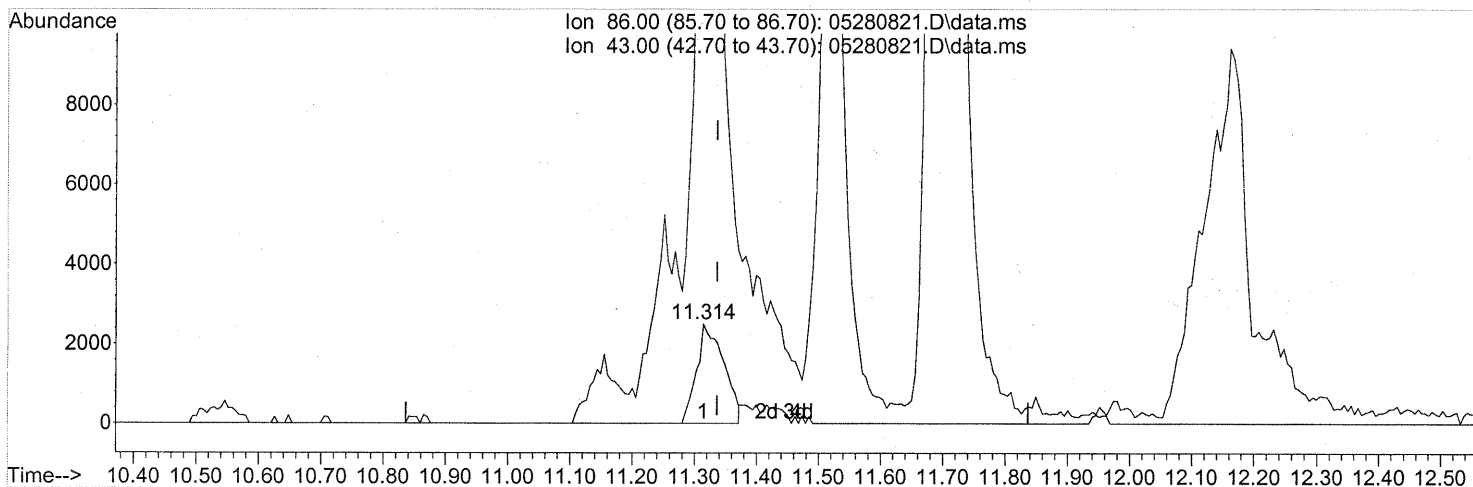
(26) Vinyl Acetate (T)
11.314min (-0.023) 2.67ng
response 8550

| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 861.53# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

fading

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280821.D
Acq On : 29 May 2008 00:53
Operator : WA
Sample : P0801483-030 (1000ml)
Misc : ENSR SG18B-05 (-3.2, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(26) Vinyl Acetate (T)
11.314min (-0.023) 2.39ng m
response 7628

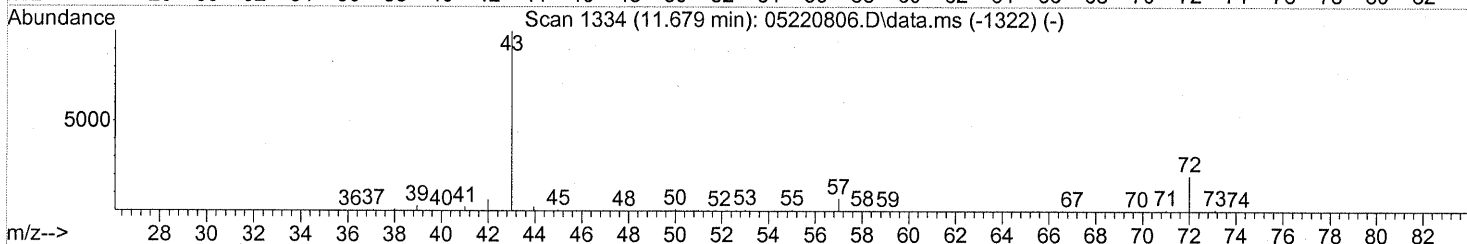
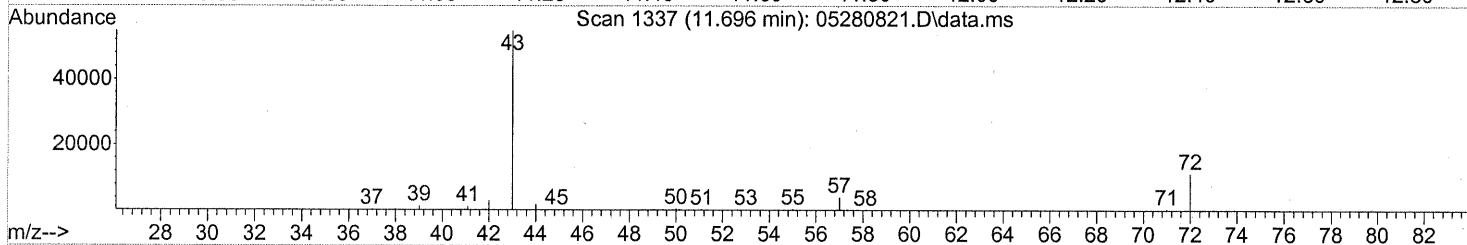
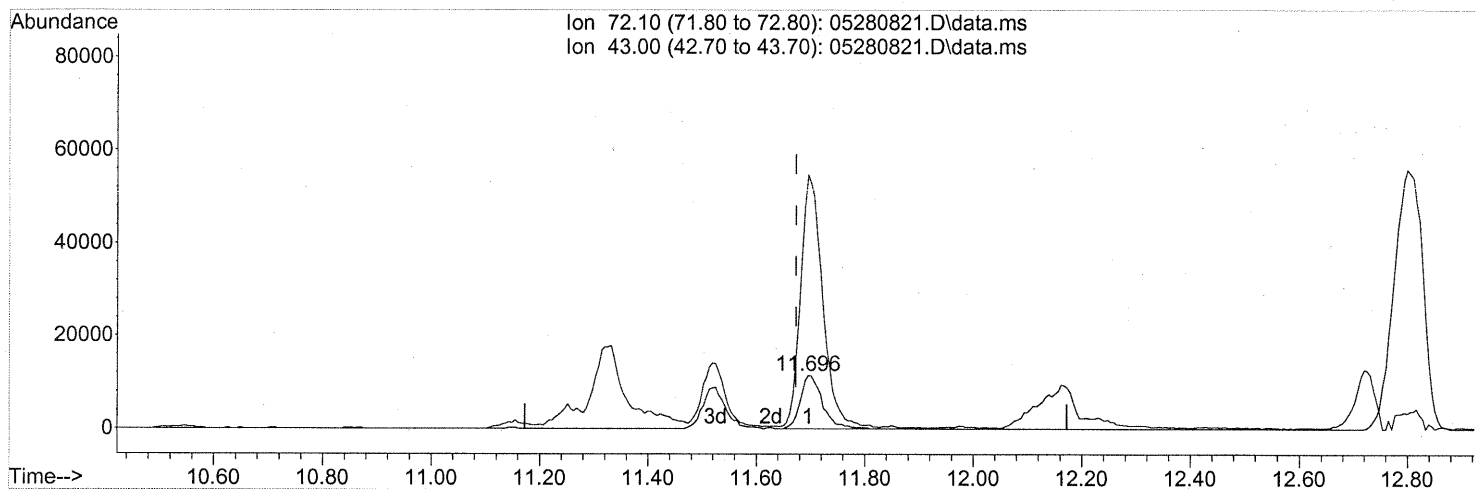
| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 965.67# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

n/o. tailing
DA 5/31/08
P 06/02/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.696min (+0.023) 2.54ng

response 32099

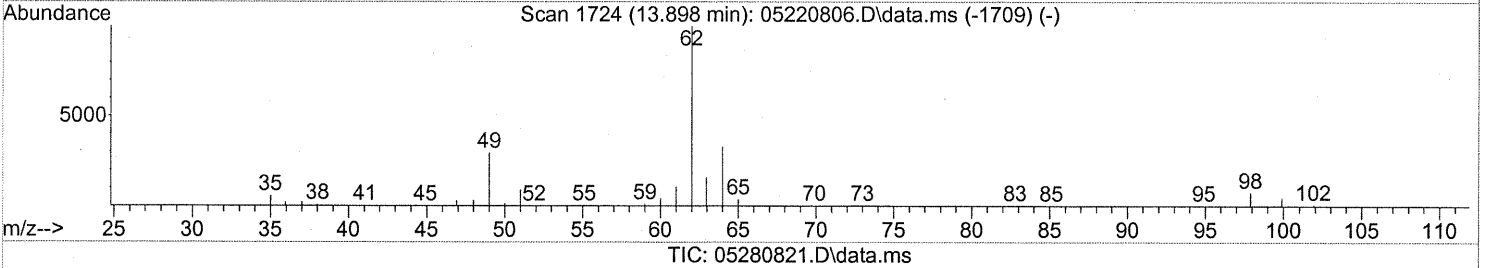
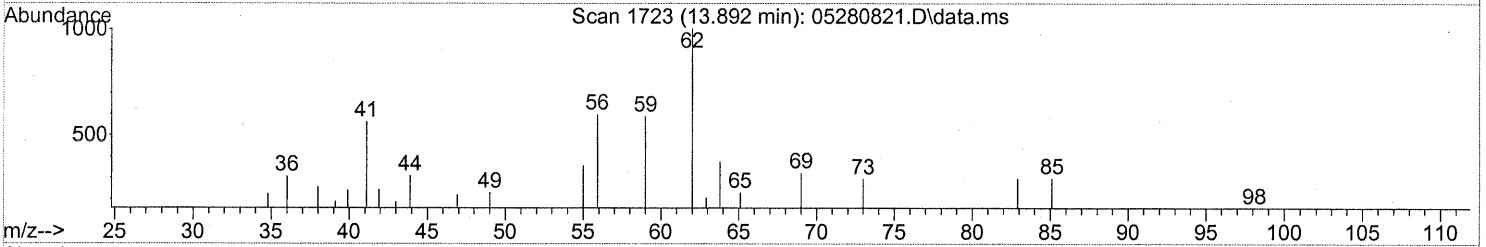
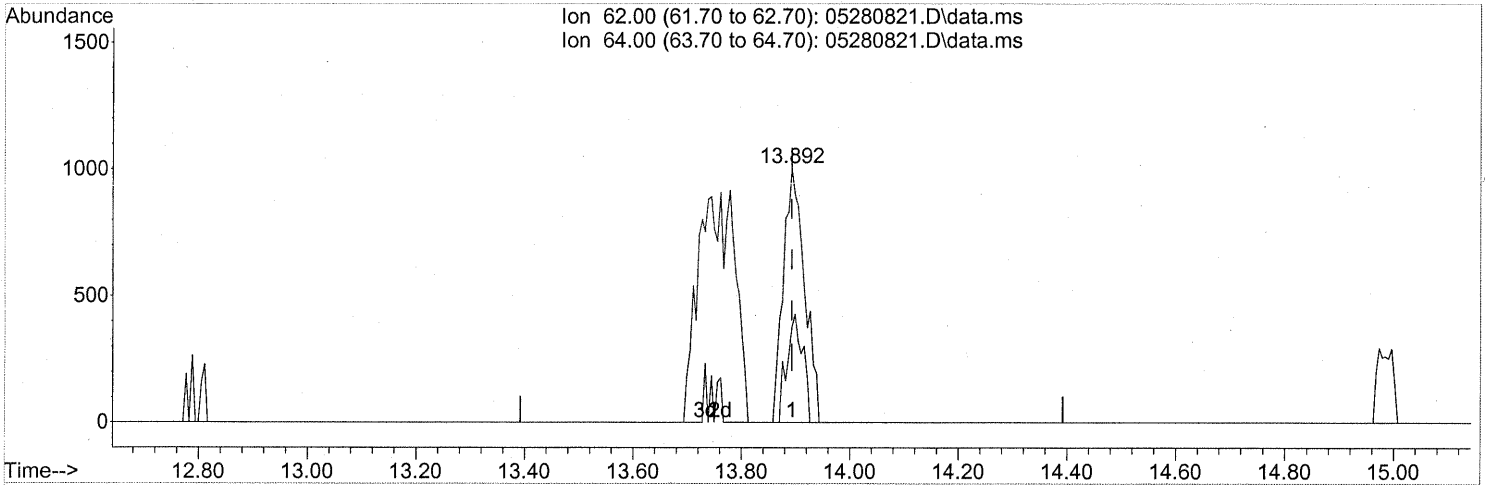
| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 479.61# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1447

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.892min (-0.000) 0.10ng

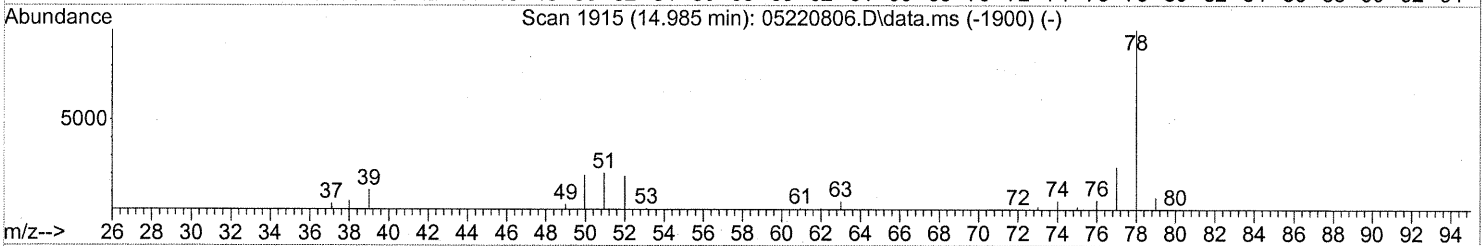
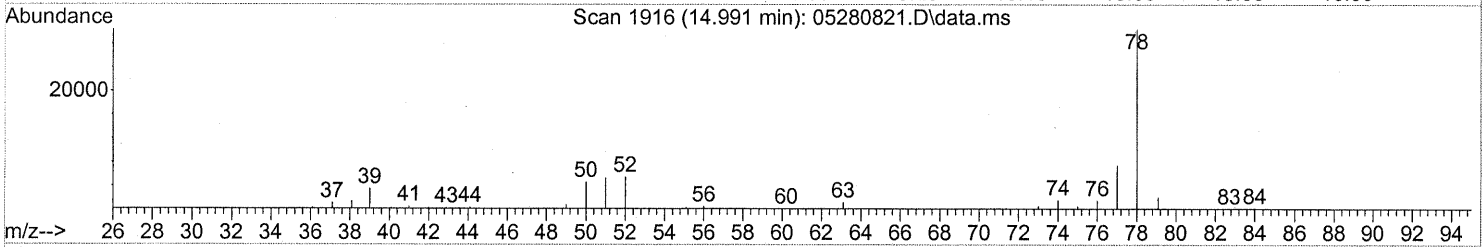
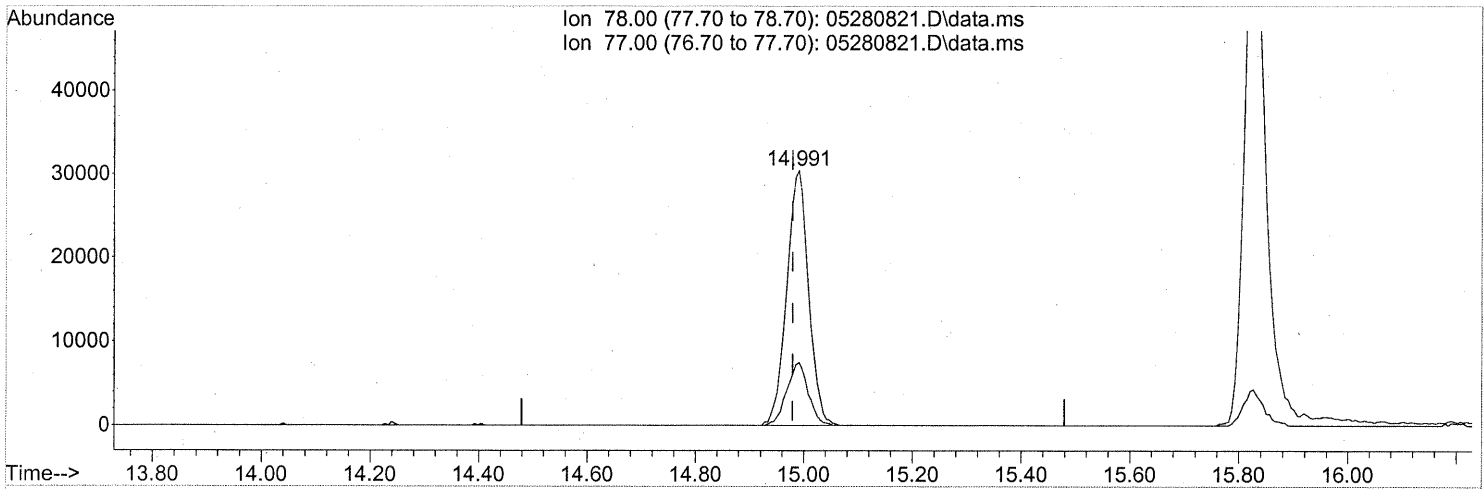
response 2720

| Ion | Exp% | Act% |
|-------|-------|-------|
| 62.00 | 100 | 100 |
| 64.00 | 30.90 | 31.95 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1448

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(41) Benzene (T)

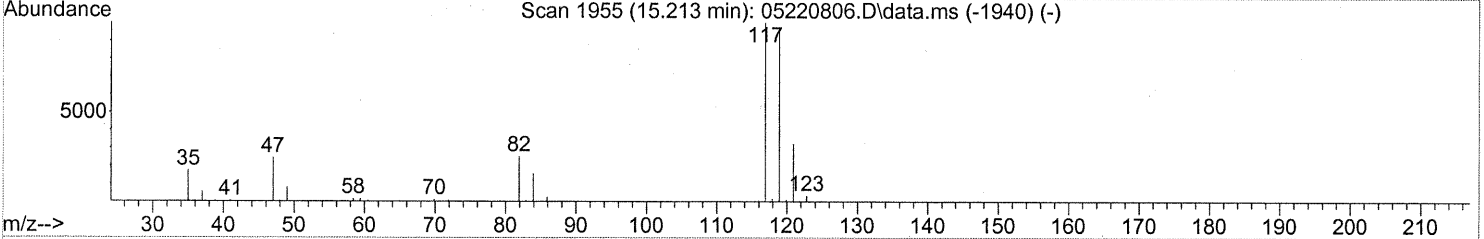
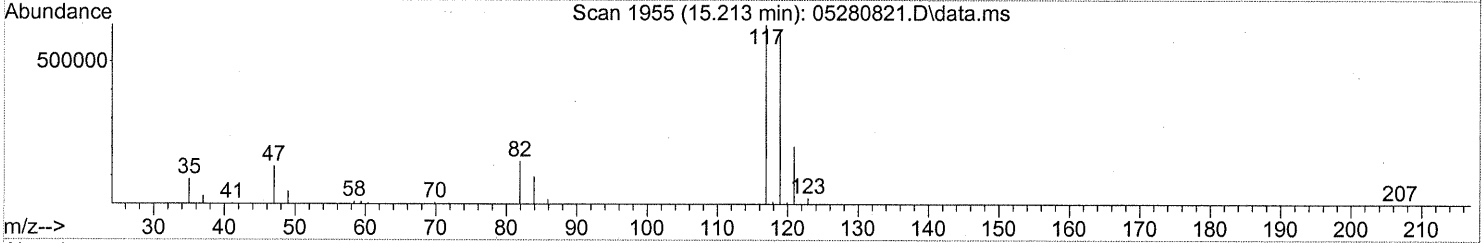
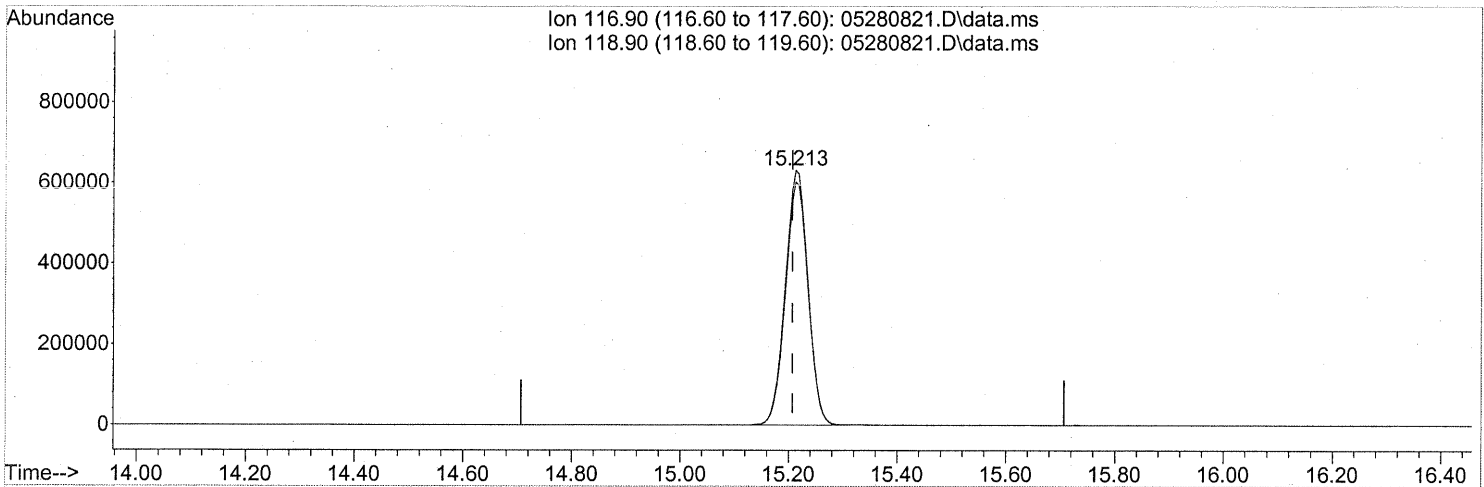
14.991min (+0.011) 1.22ng

response 84941

| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 24.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

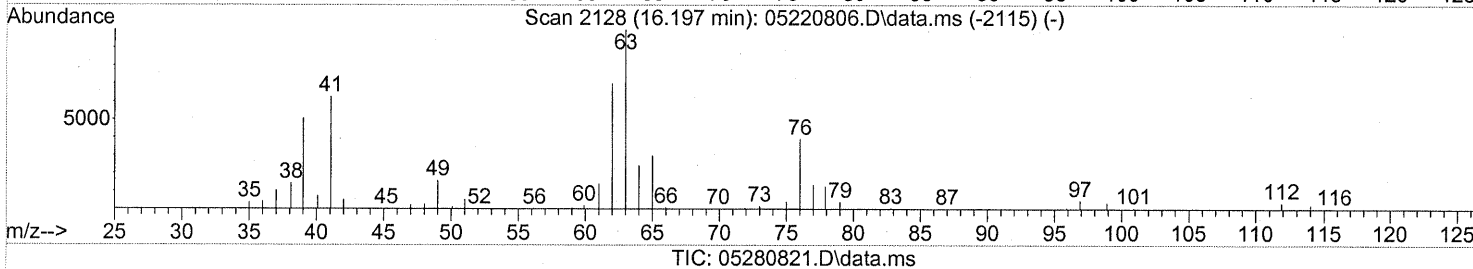
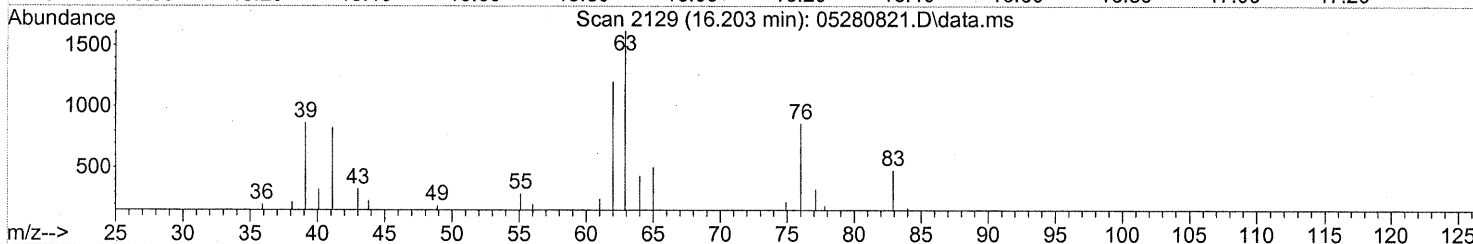
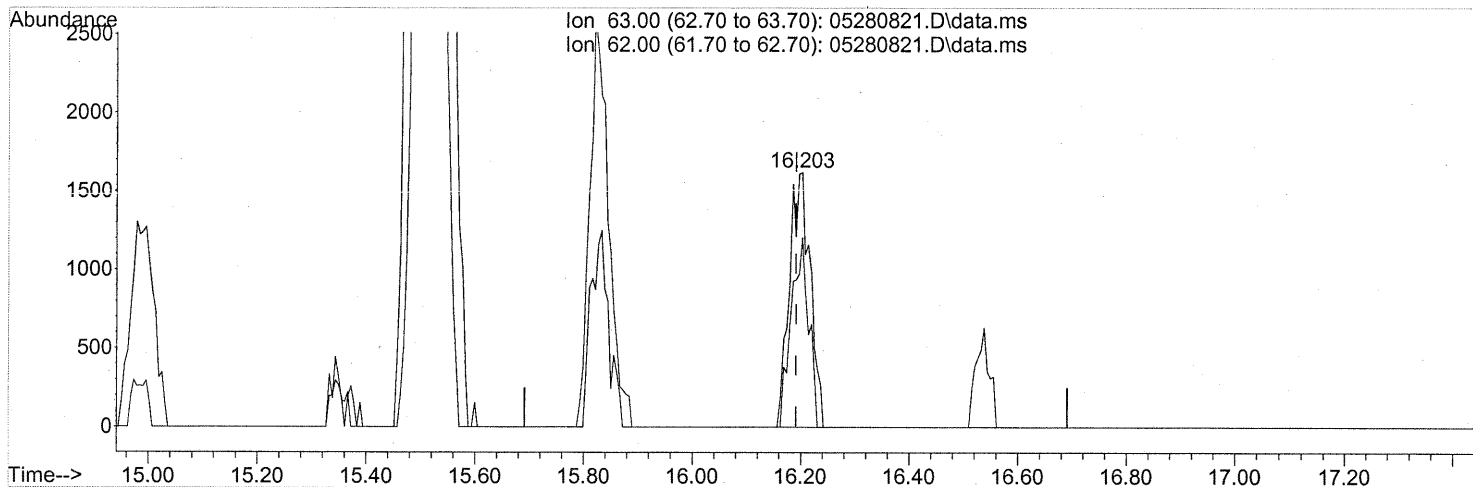
15.213min (+0.006) 68.29ng

response 1829622

| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 95.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

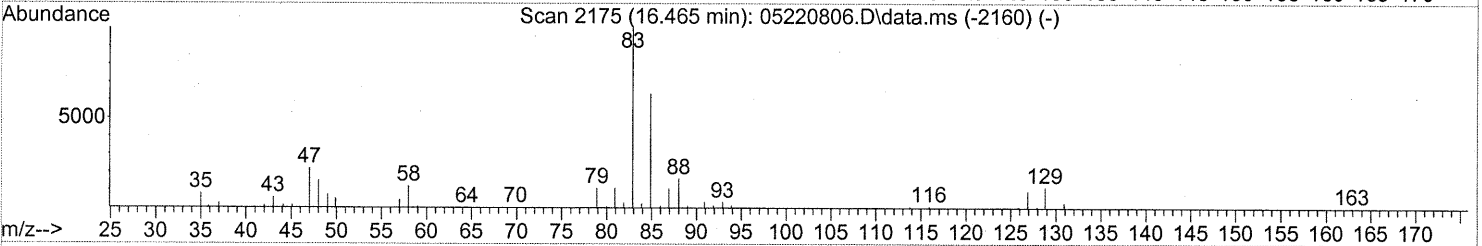
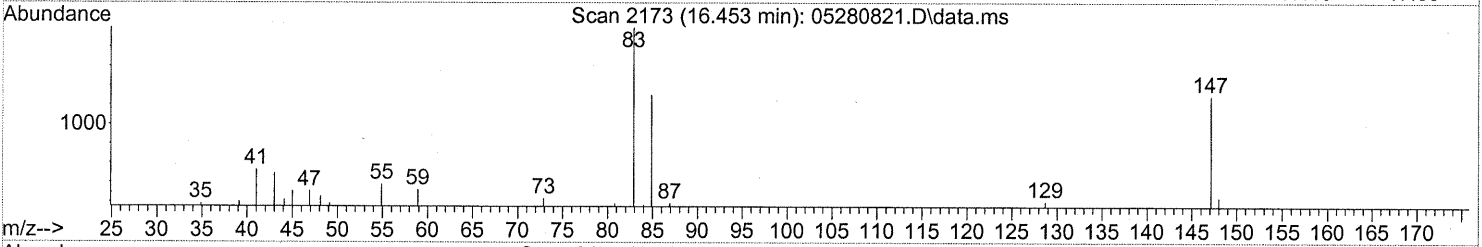
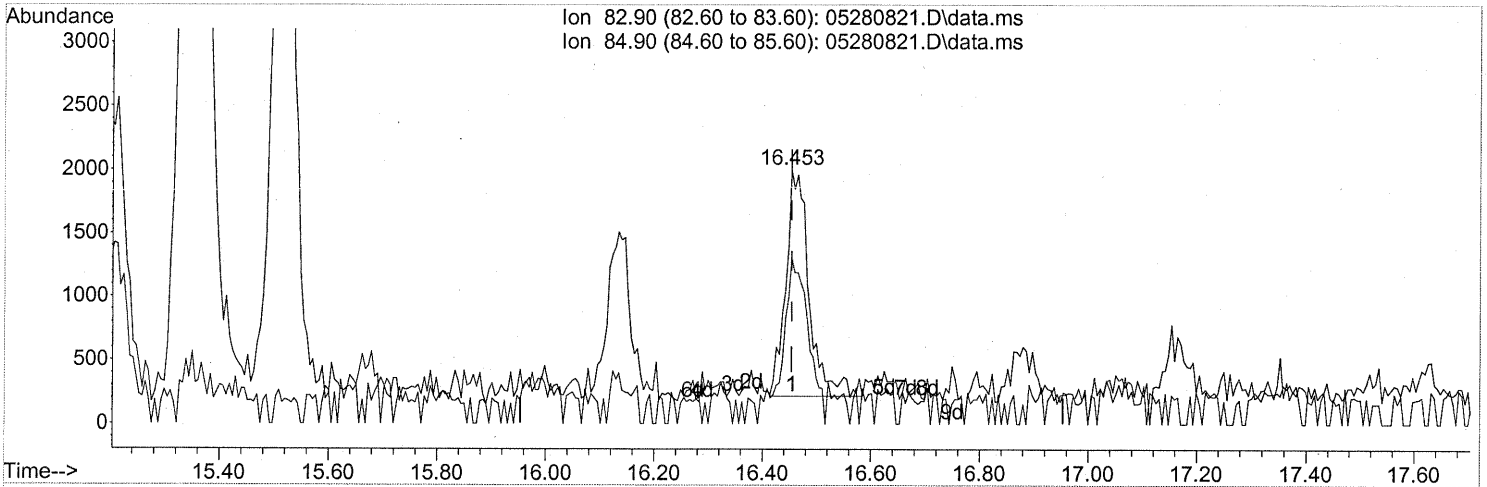
16.203min (+0.011) 0.23ng

response 4308

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 62.00 | 71.30 | 62.05 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.453min (-0.000) 0.23ng

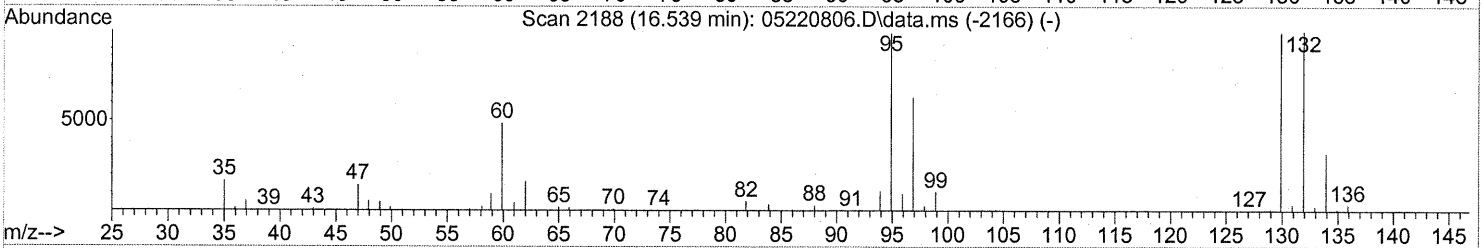
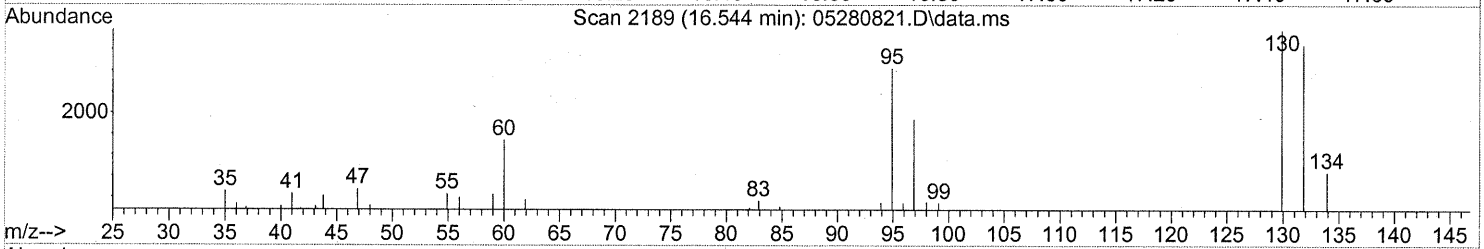
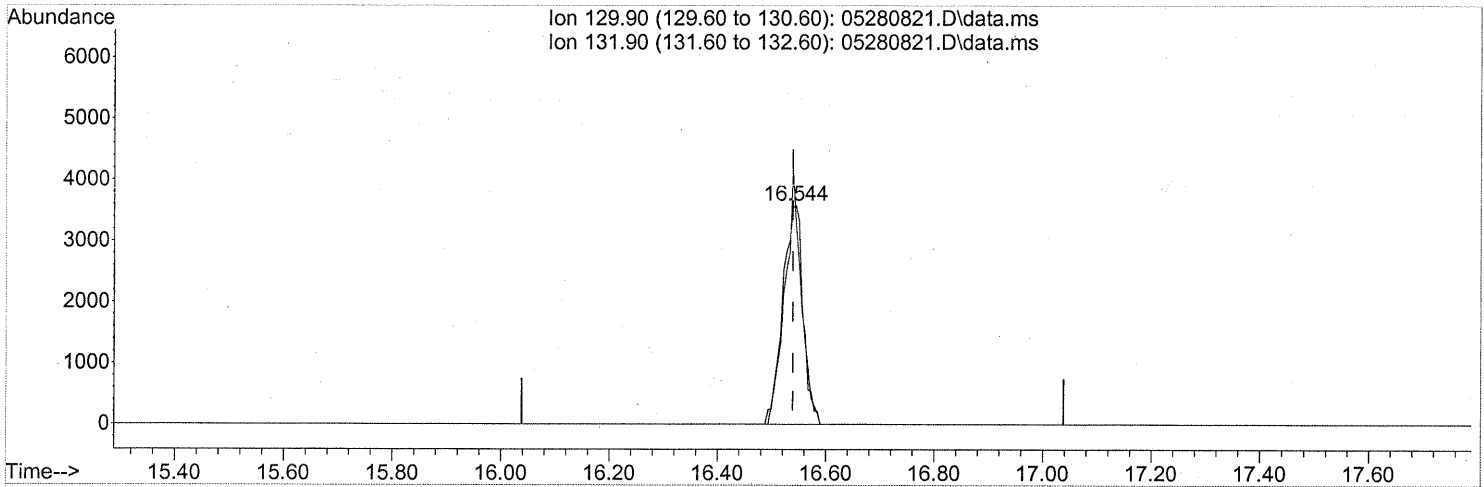
response 5335

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 80.88 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



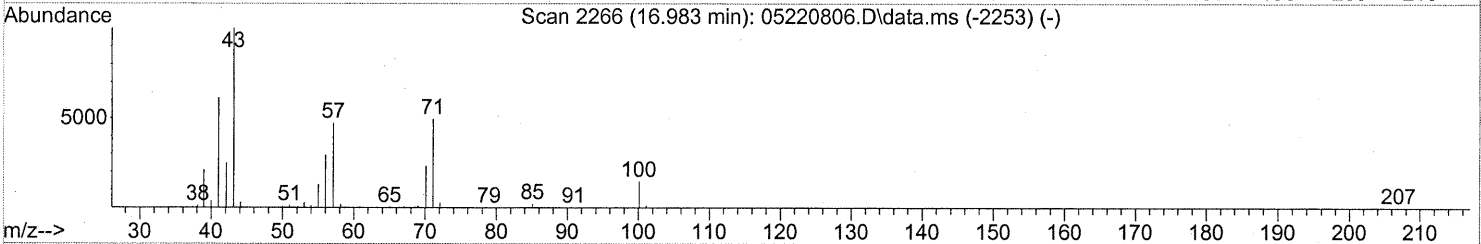
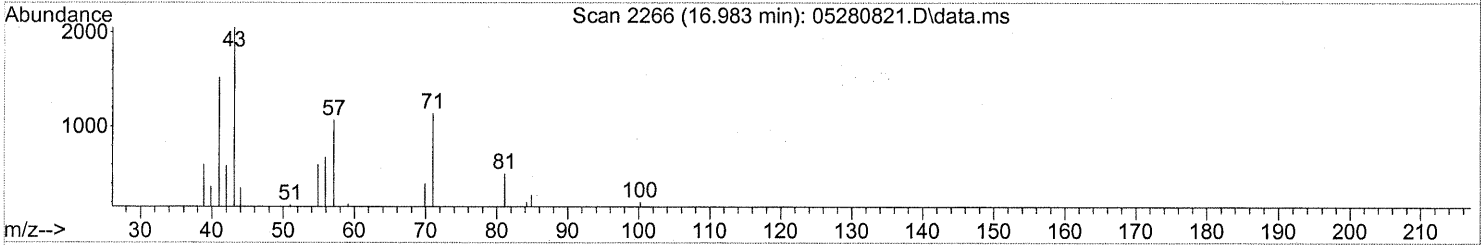
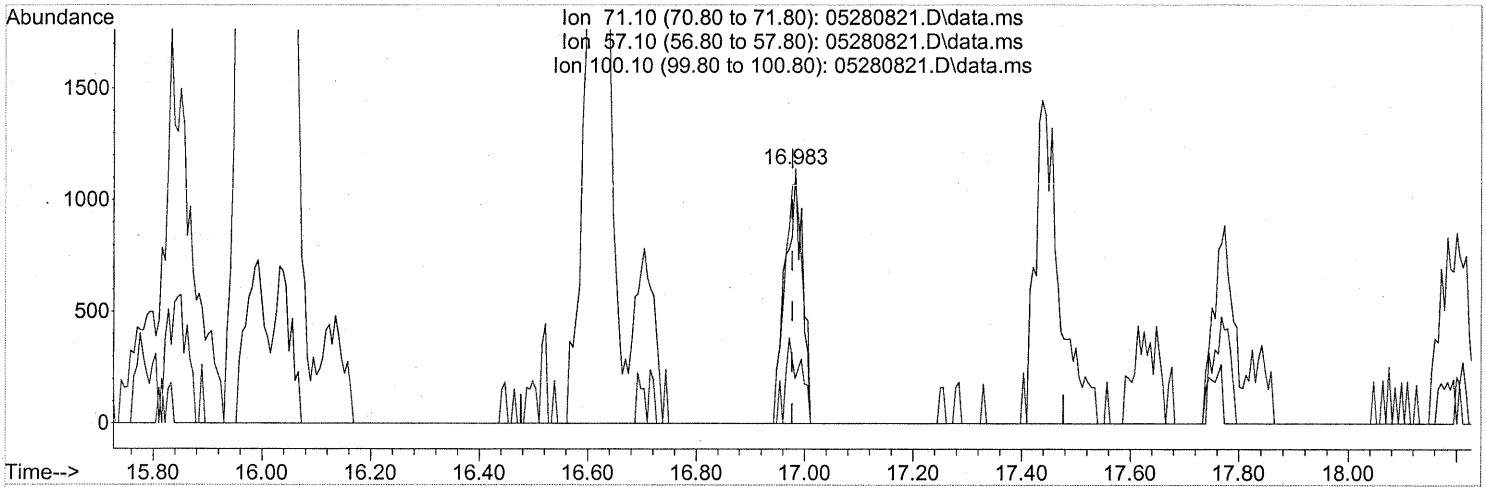
TIC: 05280821.D\data.ms

(47) Trichloroethene (T)
 16.544min (+0.006) 0.44ng
 response 9373

| Ion | Exp% | Act% |
|--------|--------|-------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 93.13 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

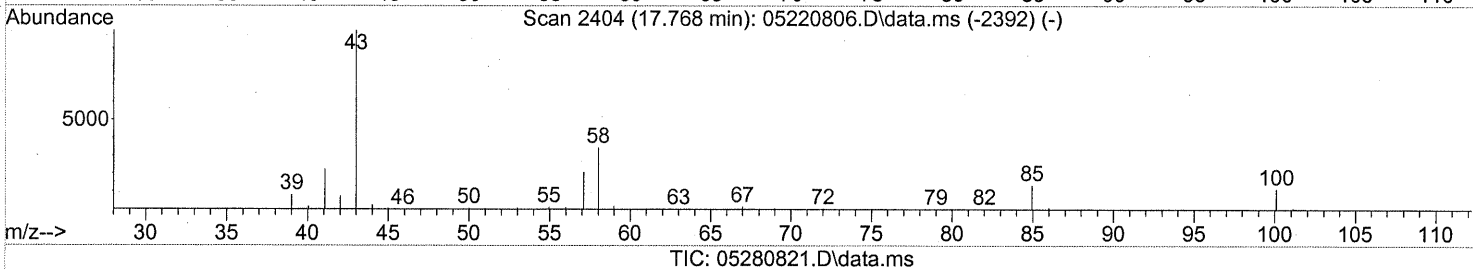
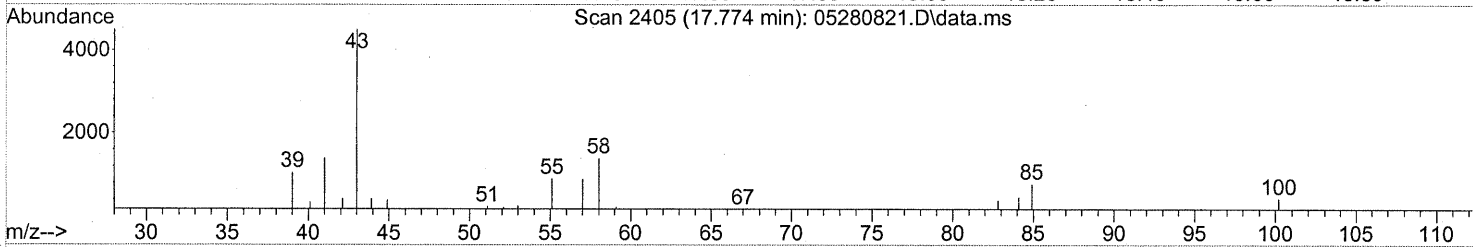
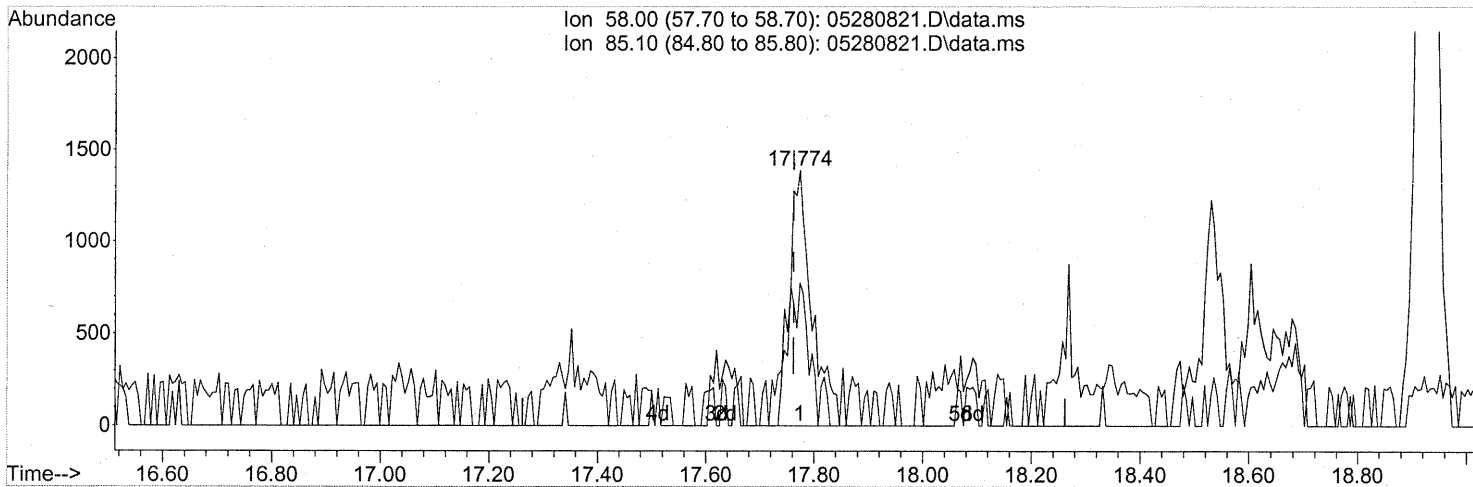


(51) n-Heptane (T)
 16.983min (+0.006) 0.13ng
 response 2462

| Ion | Exp% | Act% |
|--------|--------|---------|
| 71.10 | 100 | 100 |
| 57.10 | 124.90 | 103.86# |
| 100.10 | 30.10 | 30.10 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

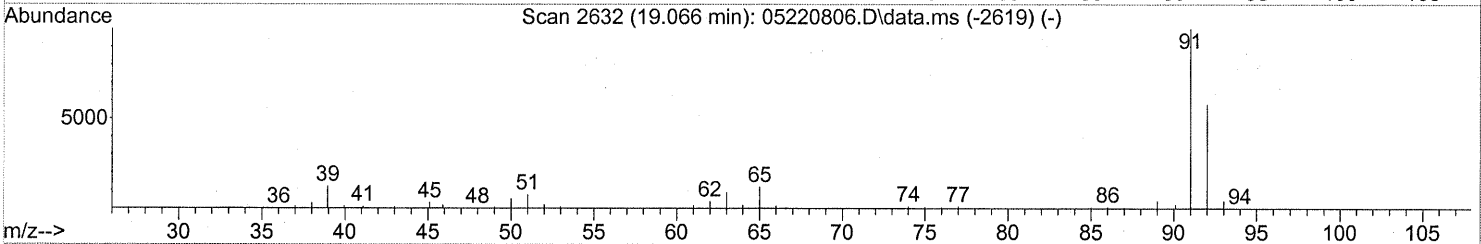
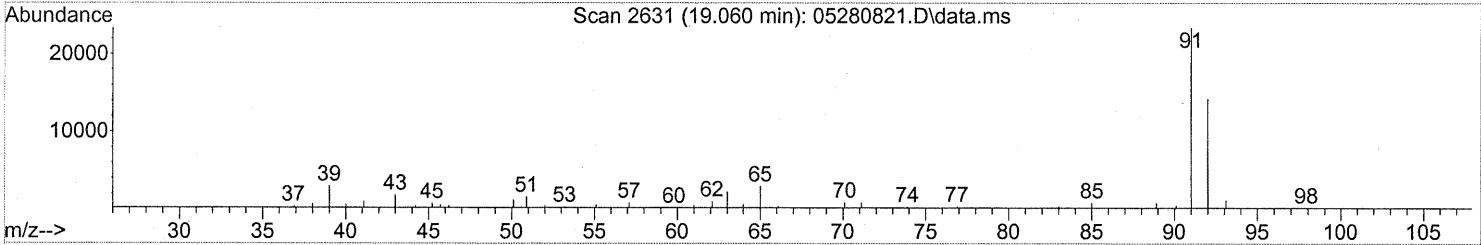
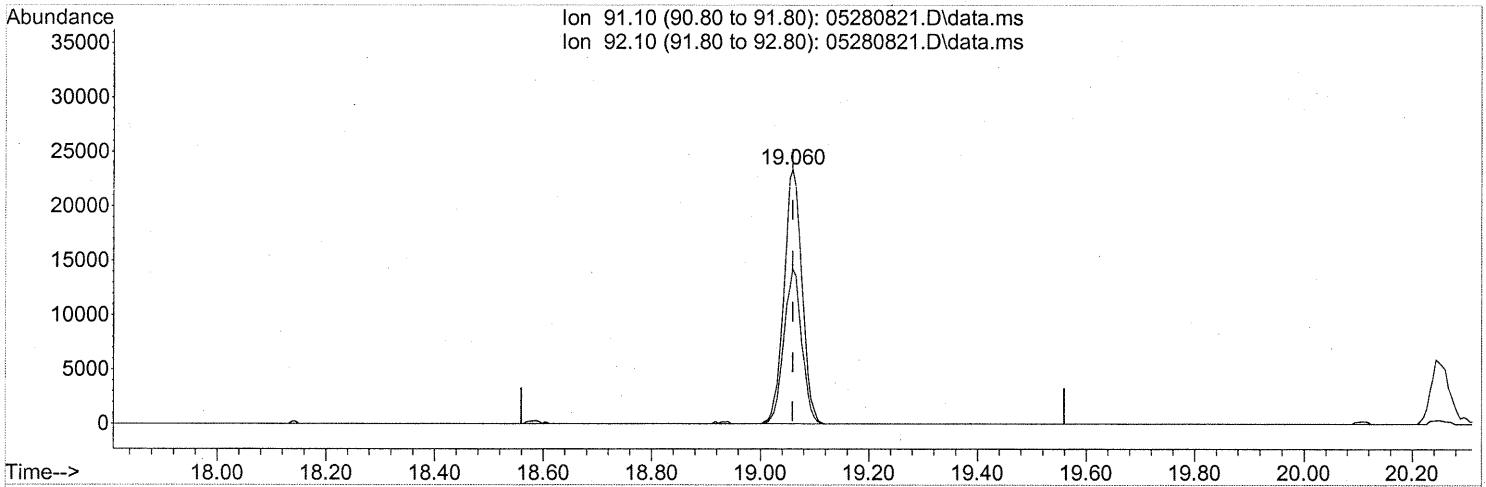
17.774min (+0.011) 0.21ng

response 3968

| Ion | Exp% | Act% |
|-------|-------|--------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 57.48# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



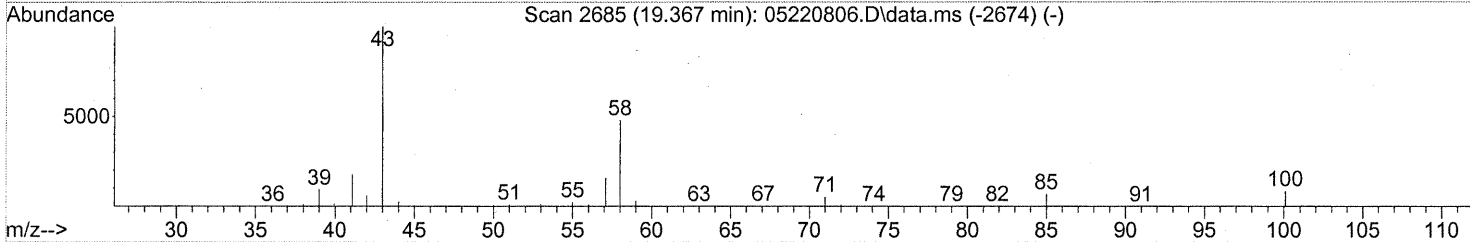
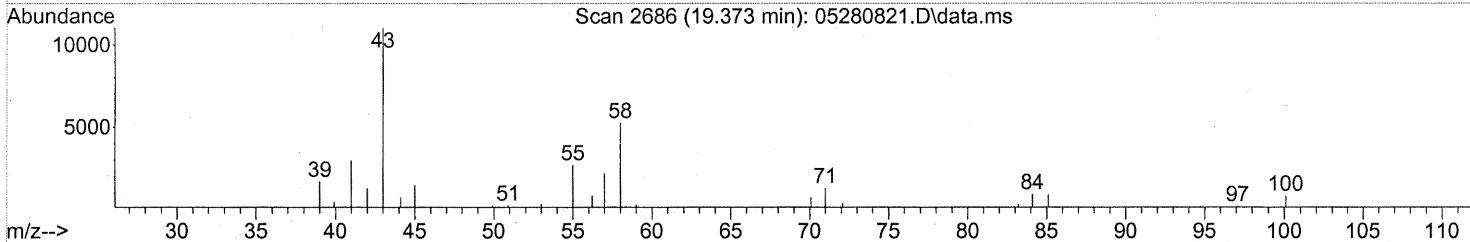
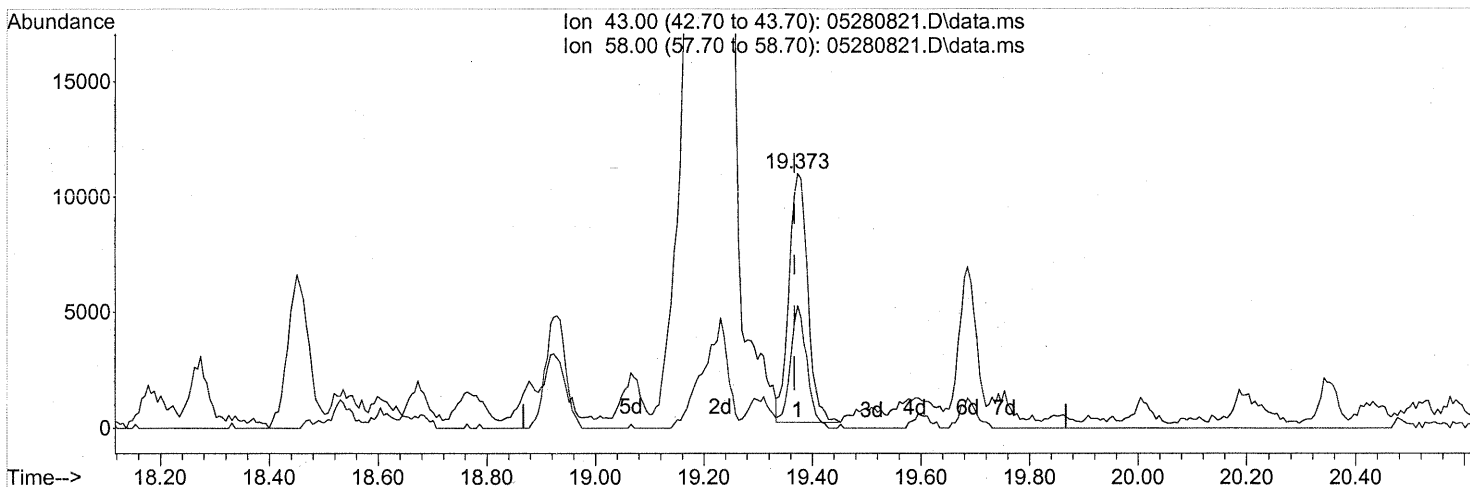
TIC: 05280821.D\data.ms

(58) Toluene (T)
 19.060min (-0.000) 0.70ng
 response 54144

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 60.05 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



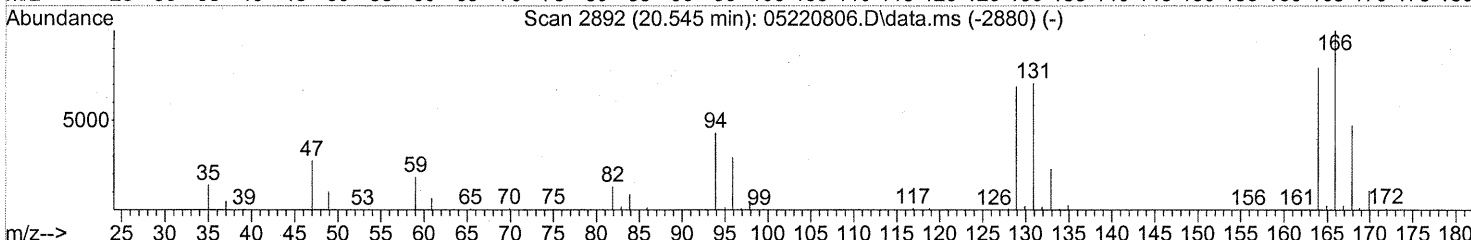
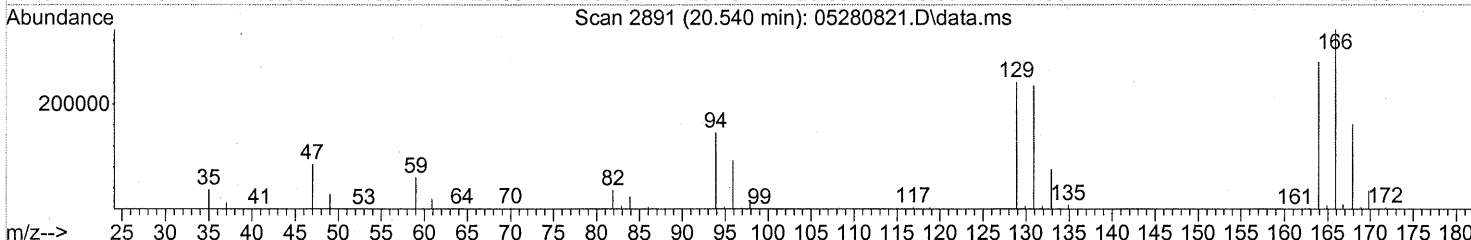
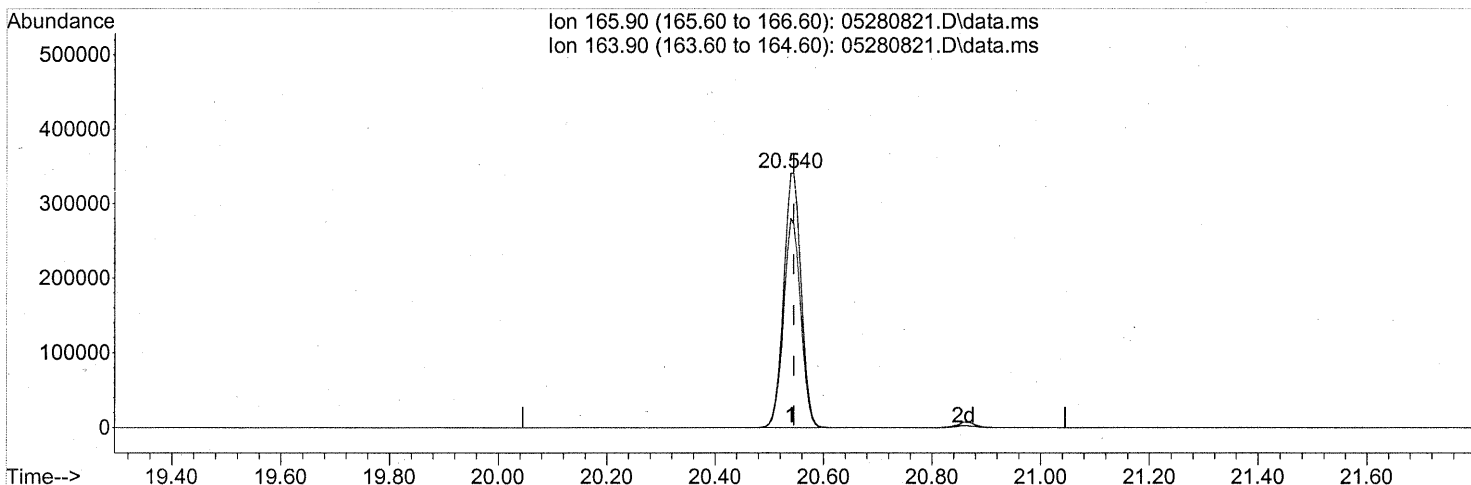
(59) 2-Hexanone (T)
 19.373min (+0.006) 0.48ng
 response 25893

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 43.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(64) Tetrachloroethene (T)

20.540min (-0.006) 33.23ng

response 762673

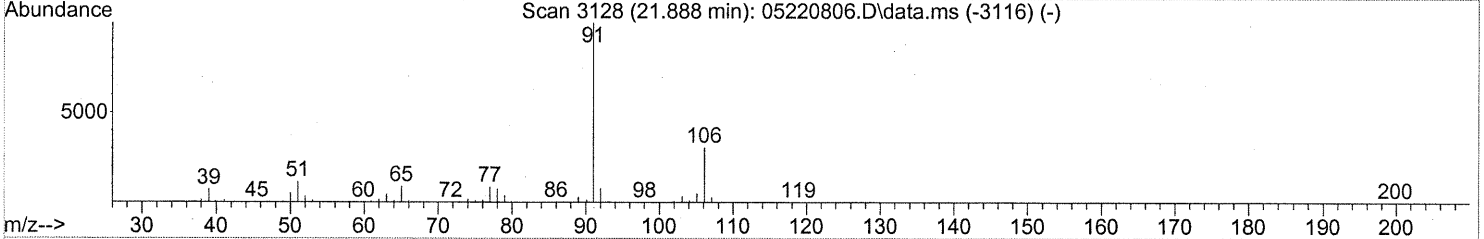
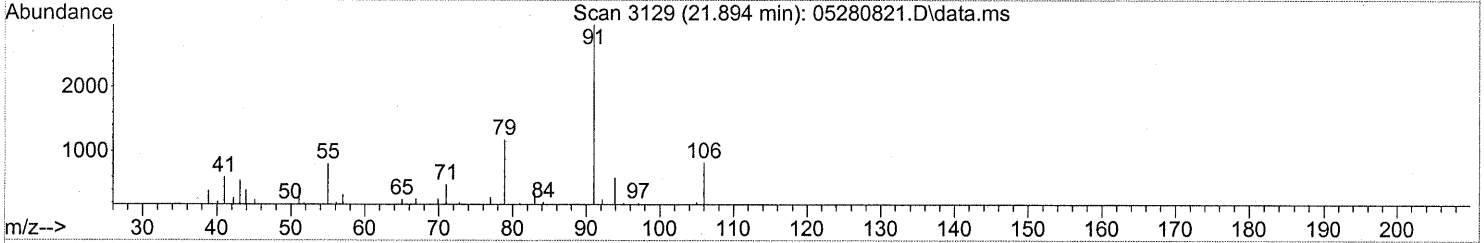
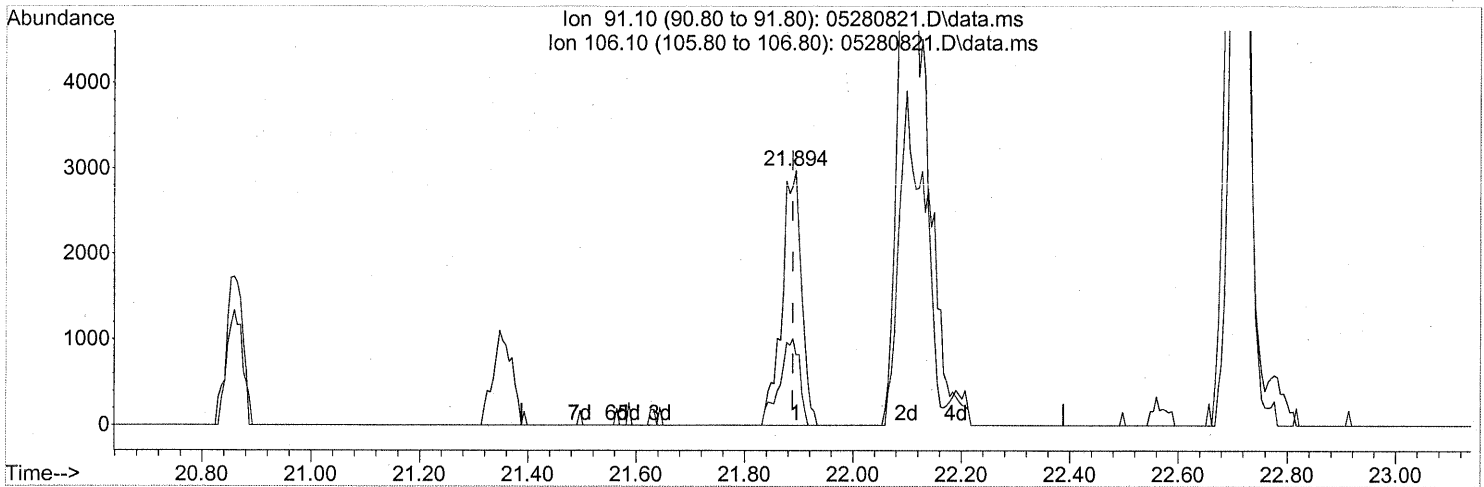
| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 80.67 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1458

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(66) Ethylbenzene (T)

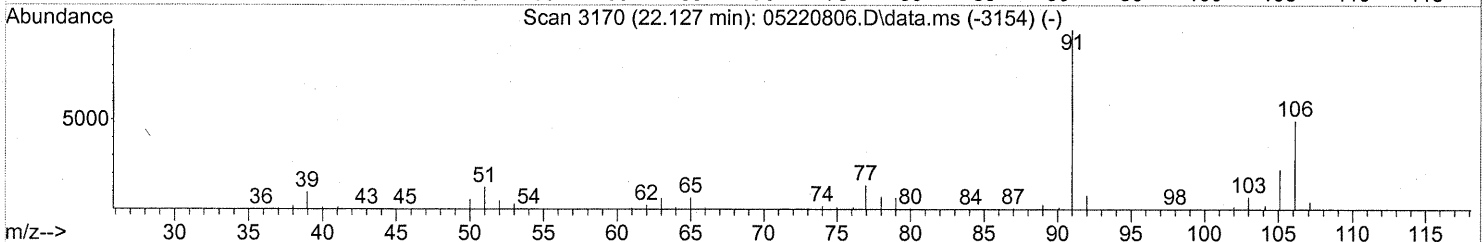
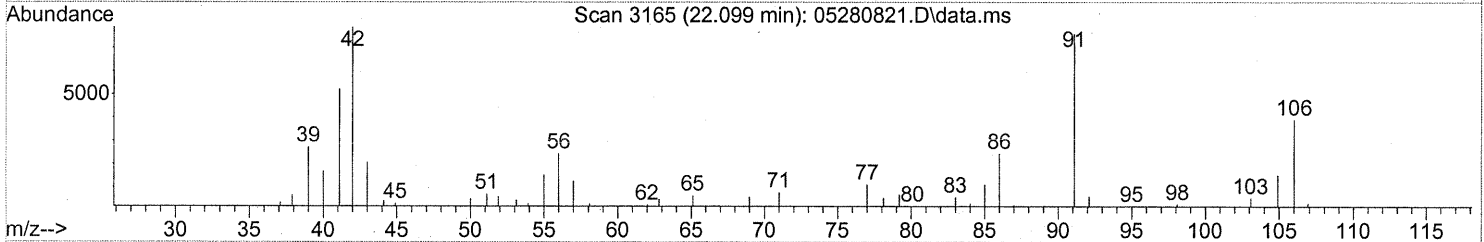
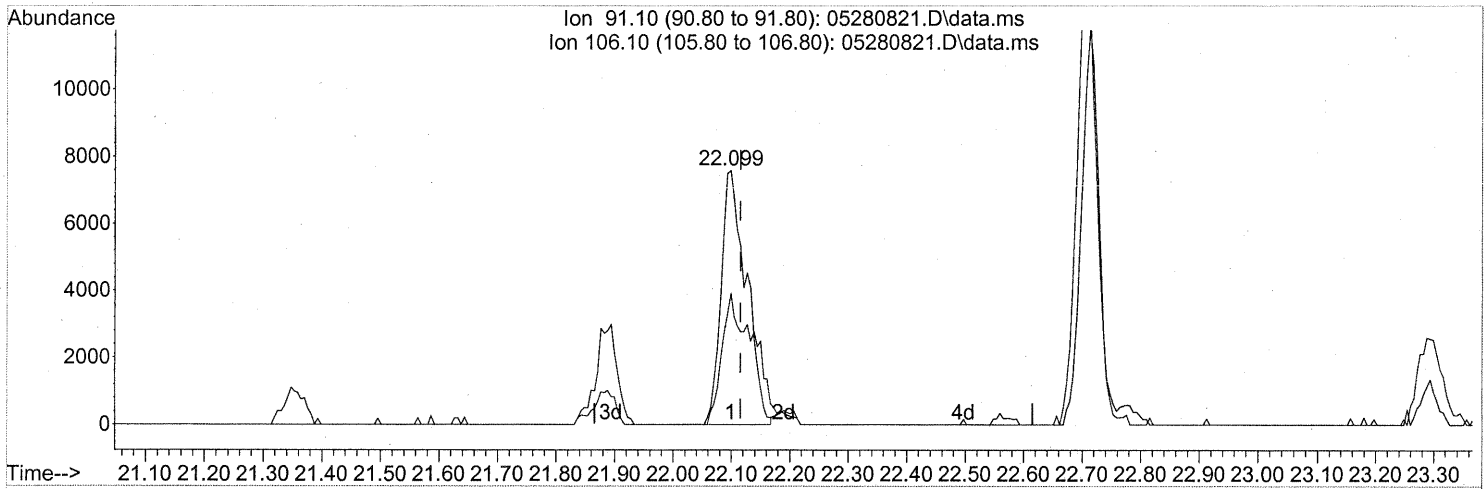
21.894min (+0.006) 0.08ng

response 7451

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 34.10 | 34.71 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

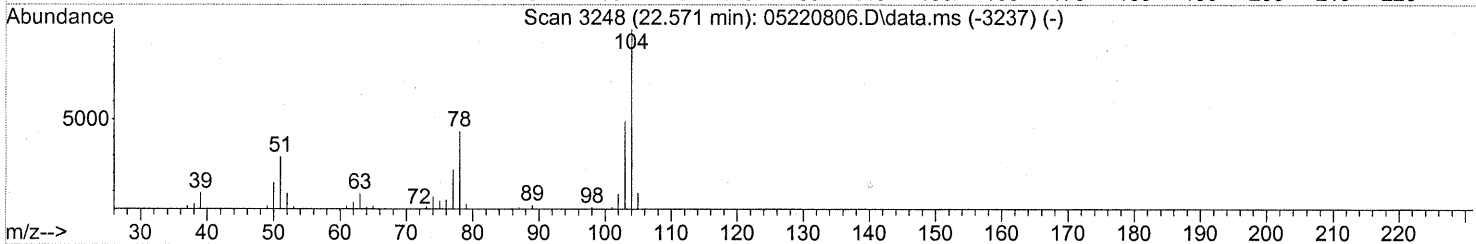
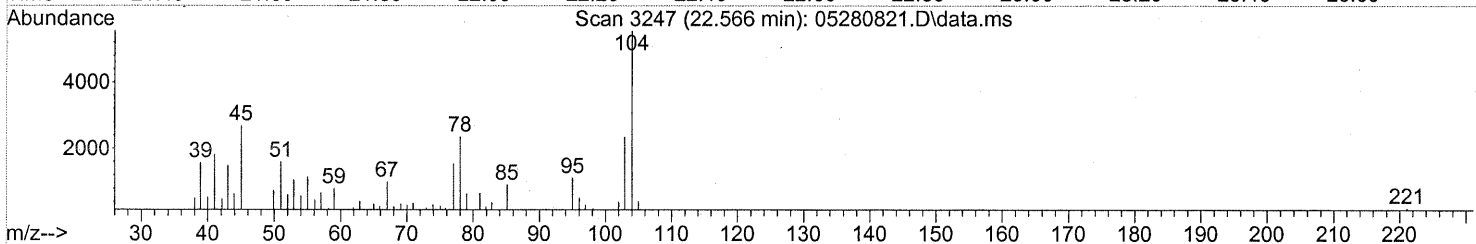
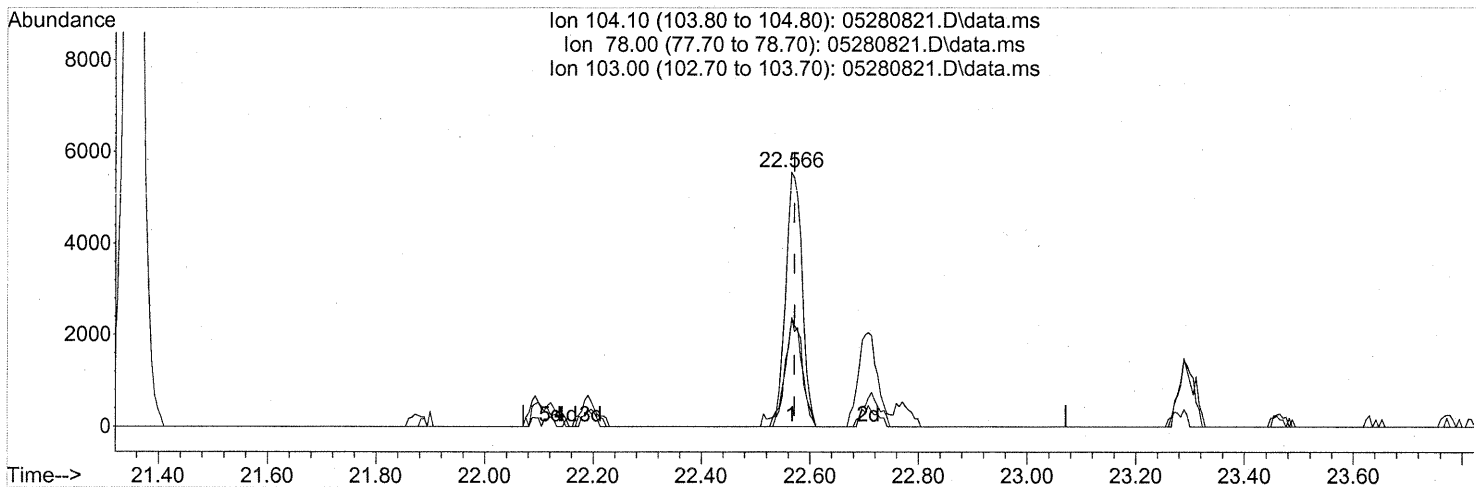


(67) m- & p-Xylene (T)
 22.099min (-0.017) 0.38ng
 response 22410

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 67.47 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(69) Styrene (T)

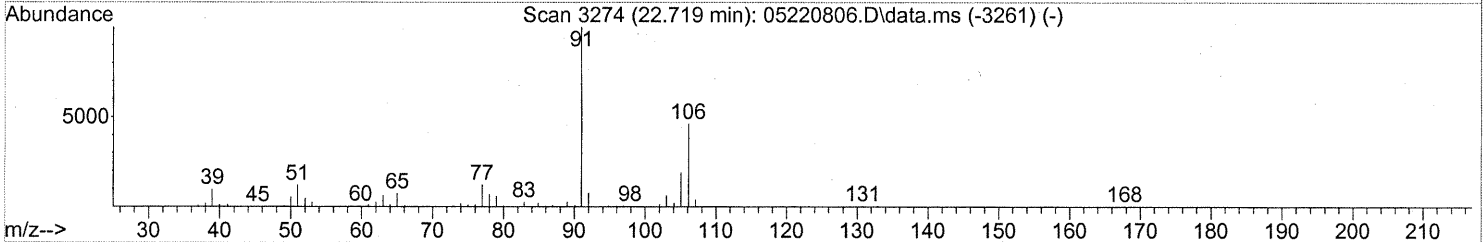
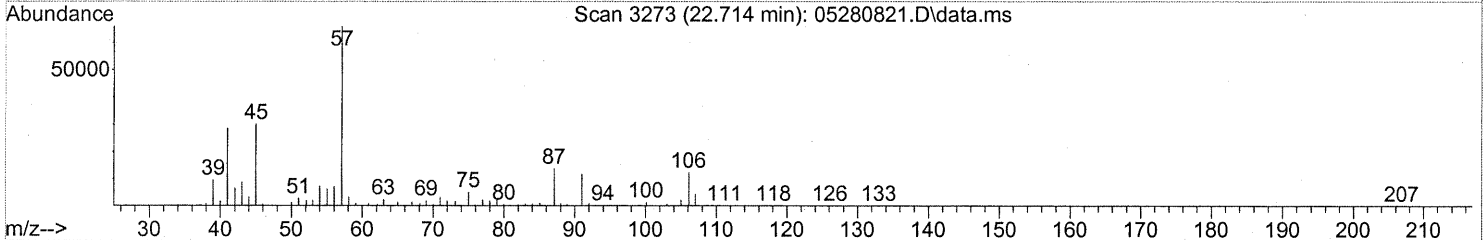
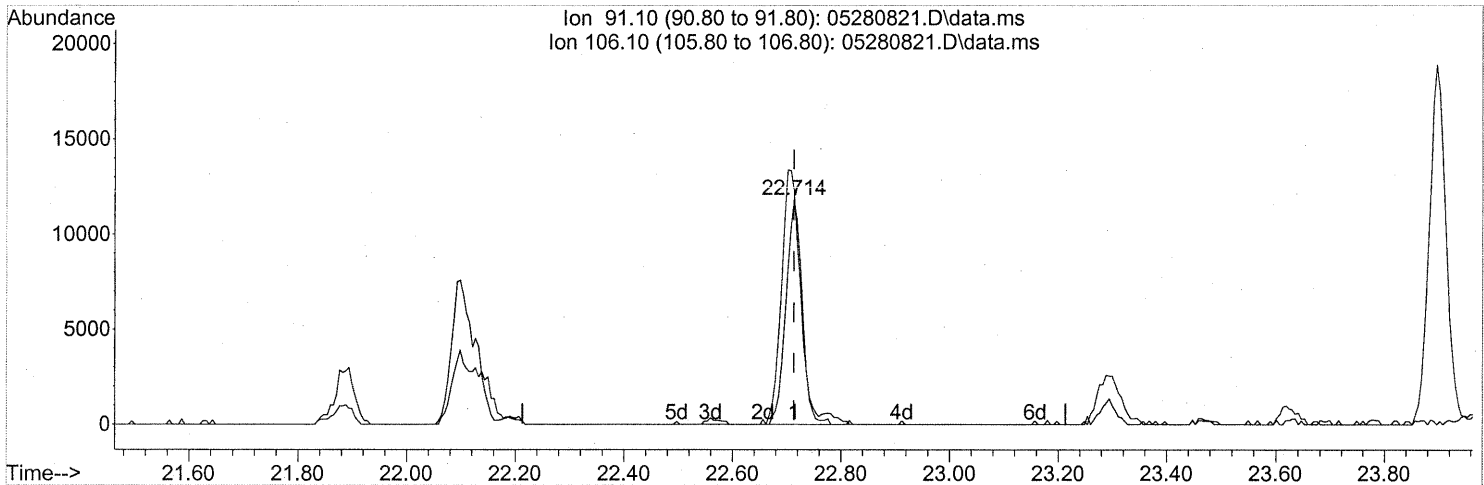
22.566min (-0.006) 0.22ng

response 11825

| Ion | Exp% | Act% |
|--------|-------|-------|
| 104.10 | 100 | 100 |
| 78.00 | 39.40 | 42.82 |
| 103.00 | 47.10 | 45.50 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

(70) o-Xylene (T)

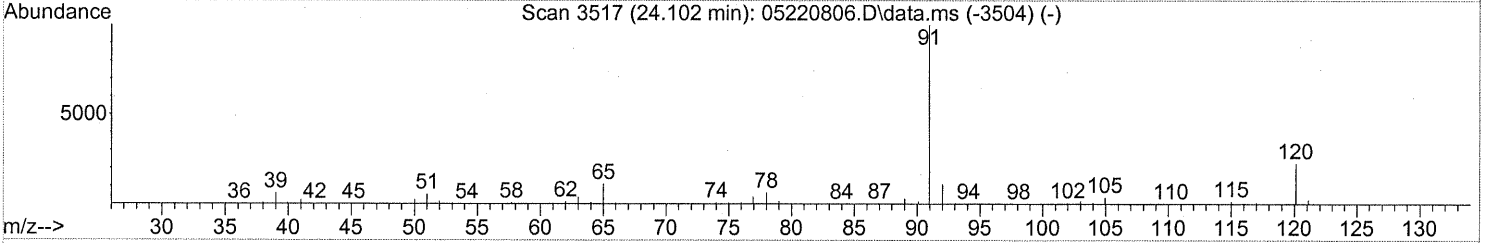
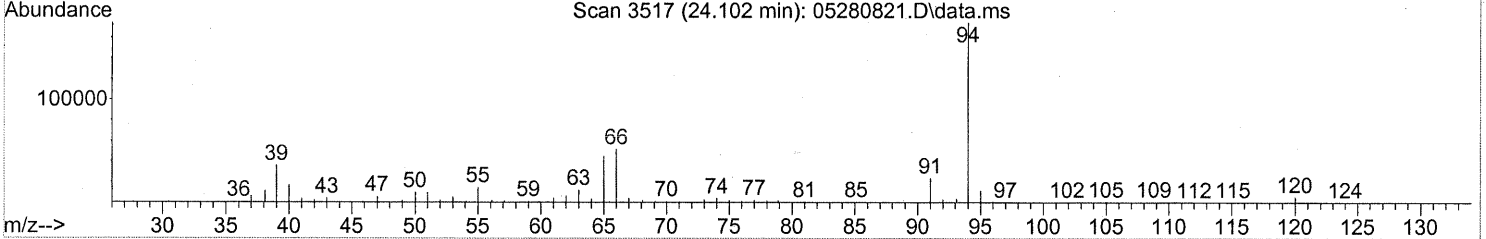
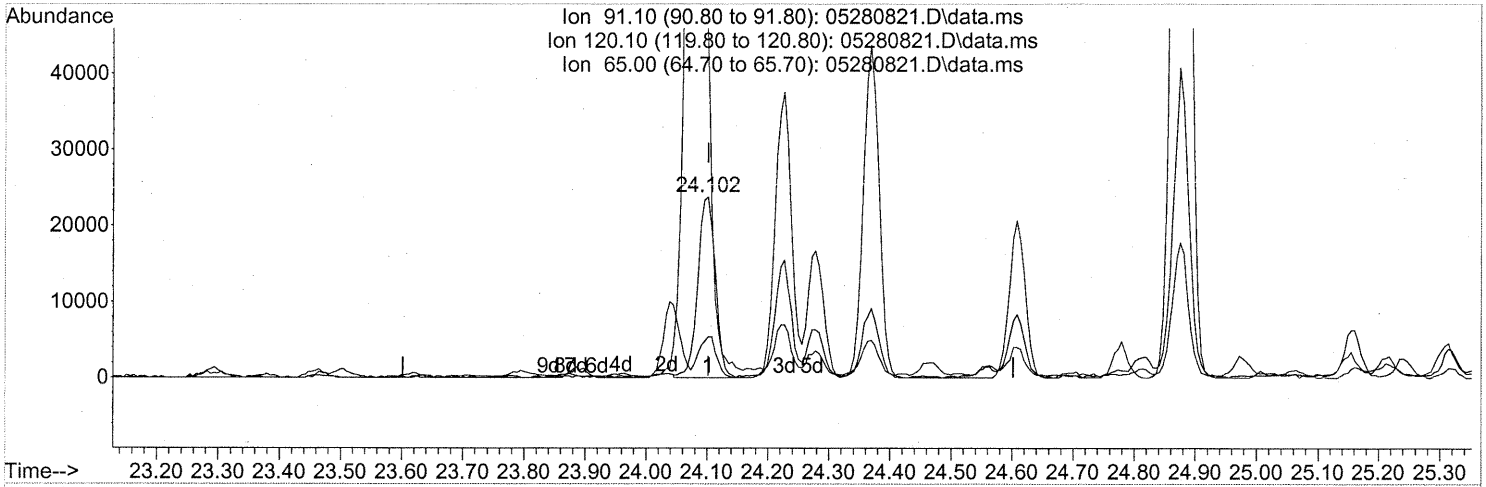
22.714min (-0.000) 0.40ng

response 25902

| Ion | Exp% | Act% |
|--------|-------|---------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 123.03# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

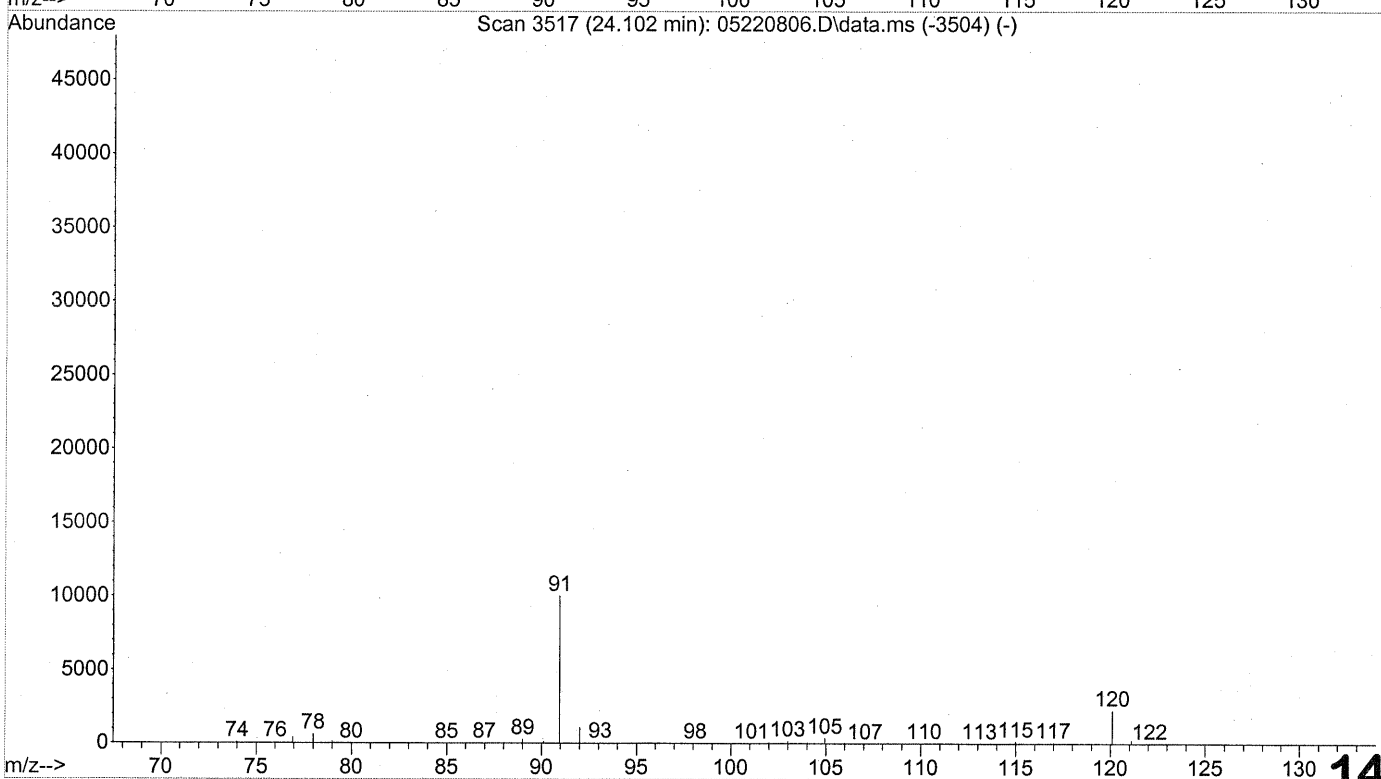
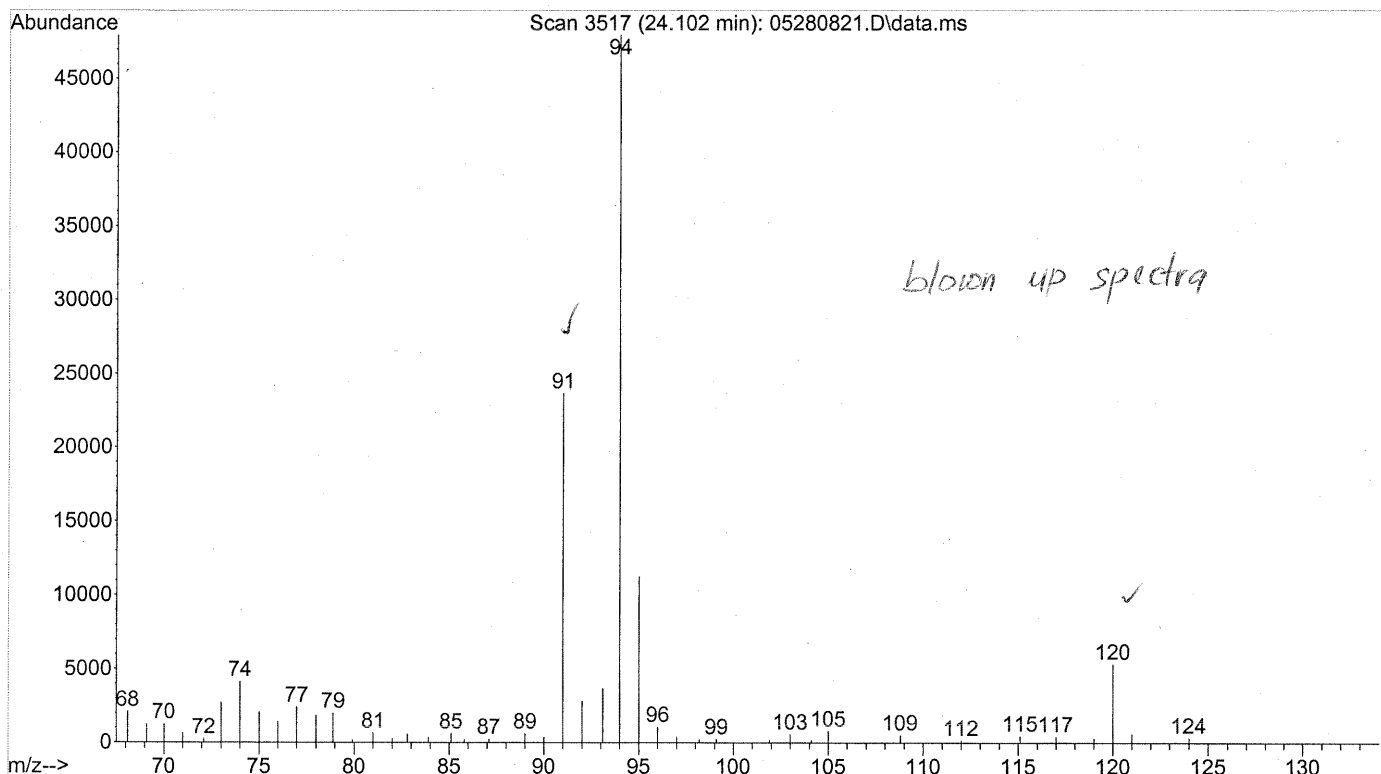


(76) n-Propylbenzene (T)
 24.102min (-0.000) 0.44ng
 response 47339

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 120.10 | 23.40 | 22.60 |
| 65.00 | 11.40 | 0.00 |
| 0.00 | 0.00 | 0.00 |

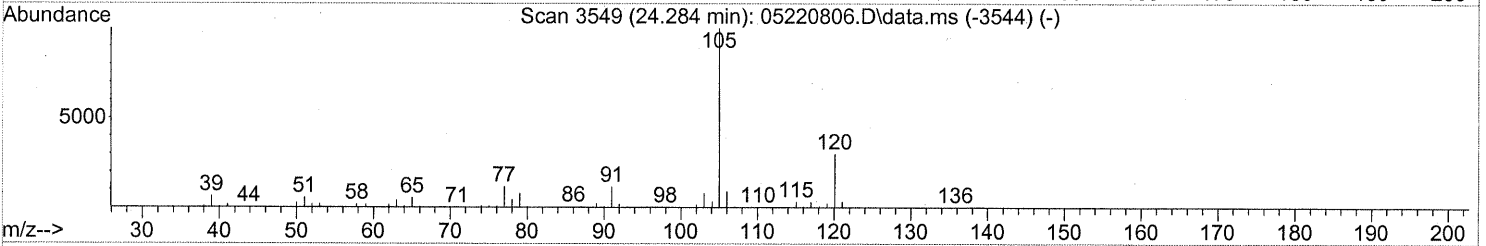
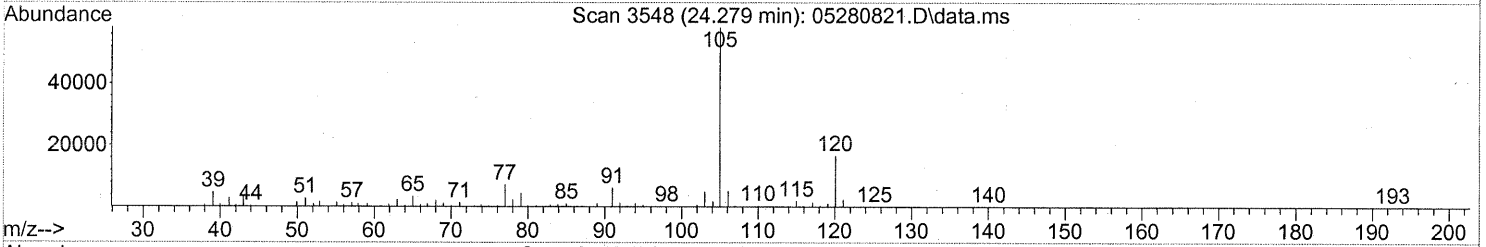
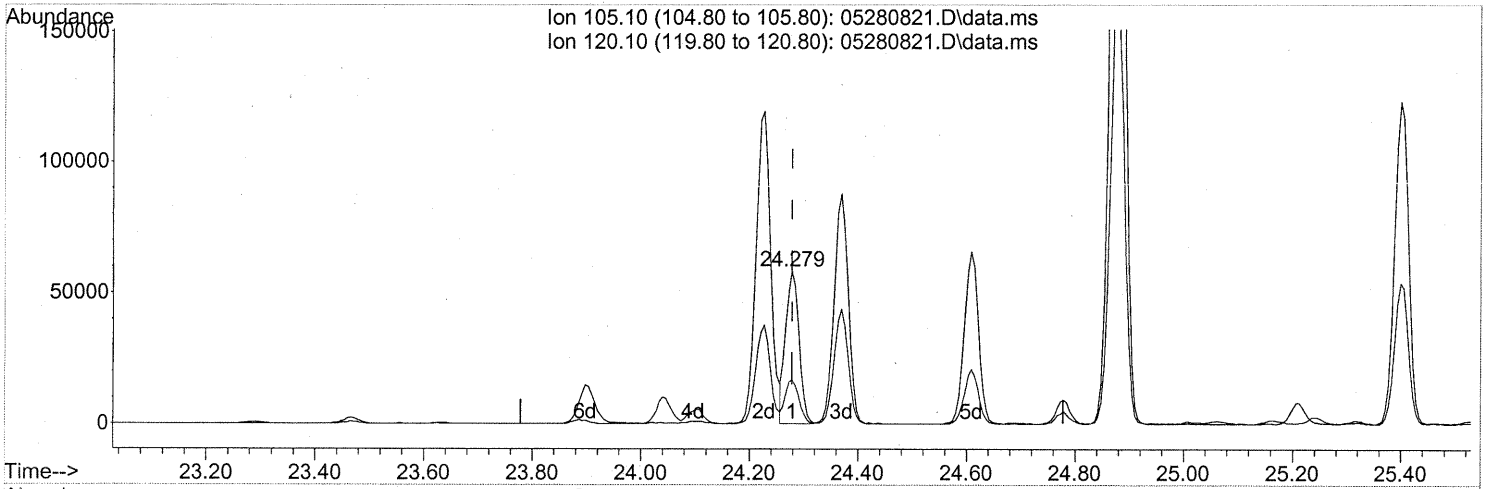
See blown up spectra

File : J:\MS13\DATA\2008_05\28\05280821.D
Operator : WA
Acquired : 29 May 2008 00:53 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-030 (1000ml)
Misc Info : ENSR SG18B-05 (-3.2, 3.5)
Vial Number: 2



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



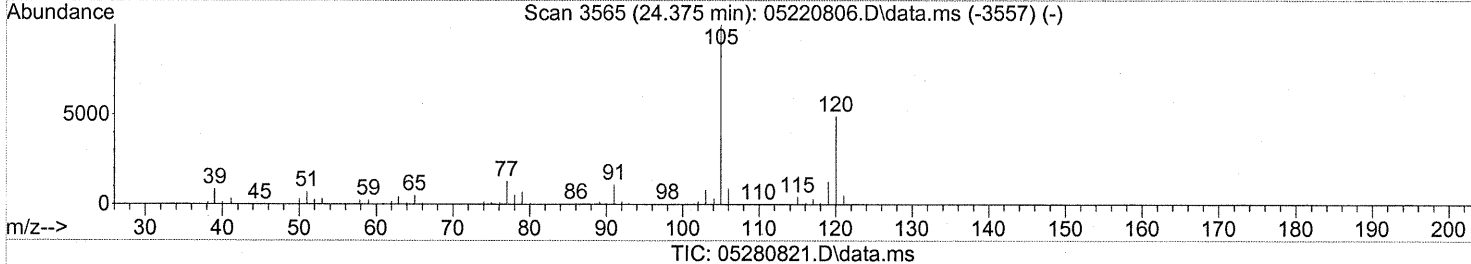
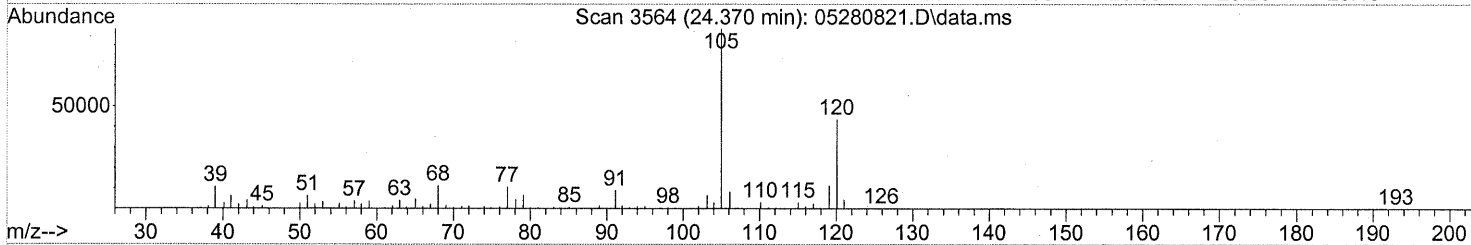
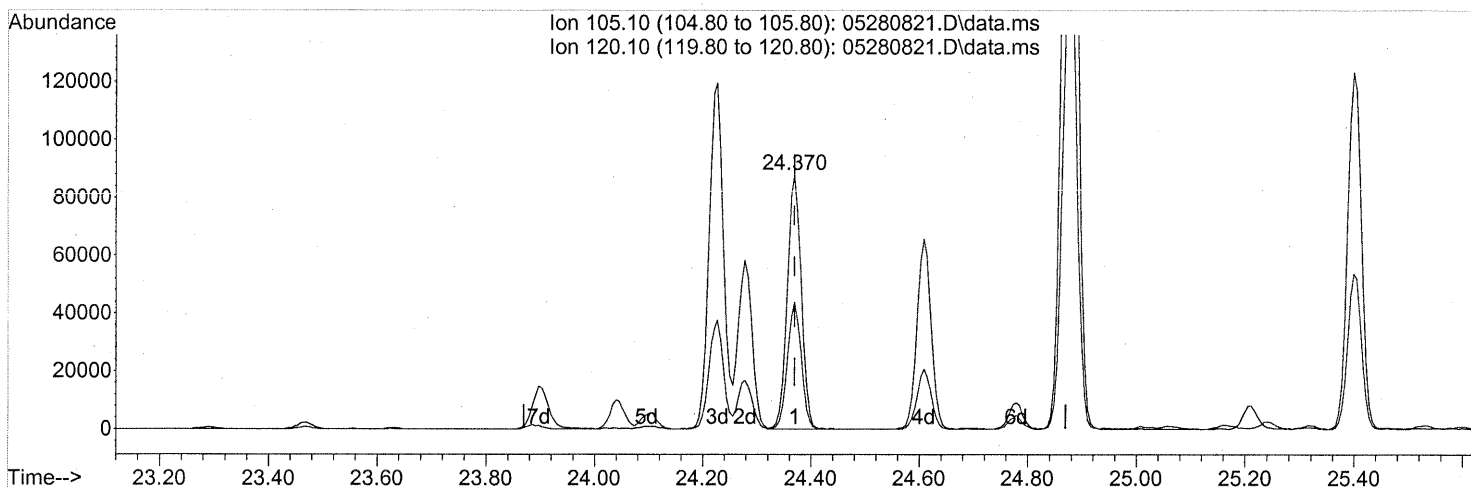
TIC: 05280821.D\data.ms

(78) 4-Ethyltoluene (T)
 24.279min (-0.000) 1.19ng
 response 100937

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 30.40 | 29.66 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

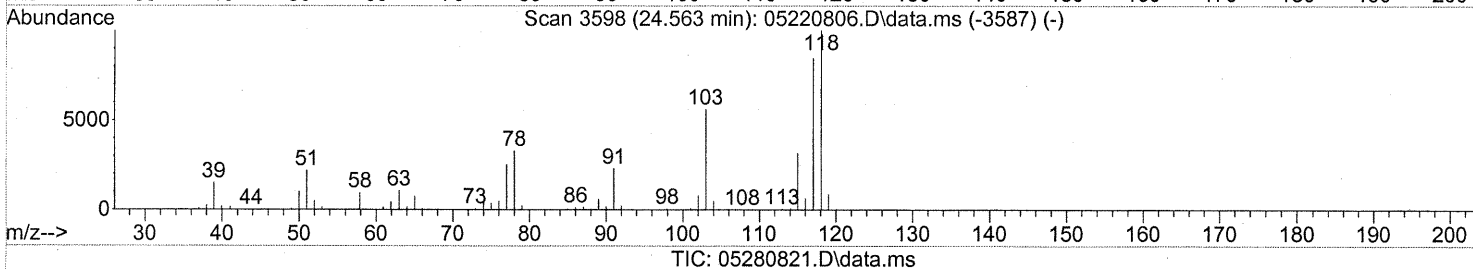
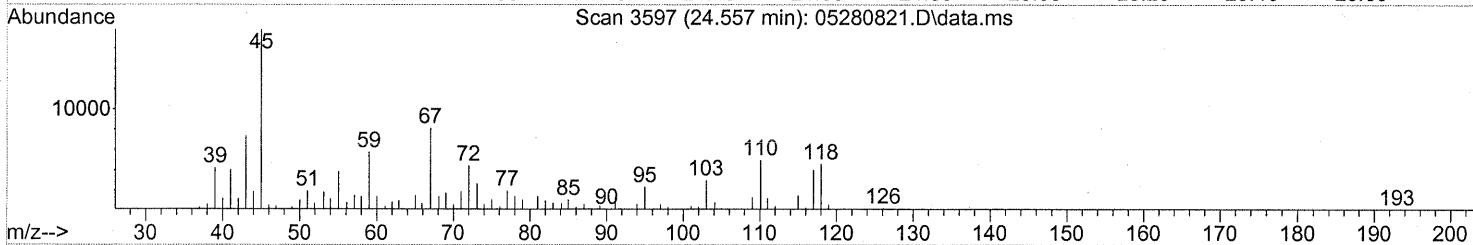
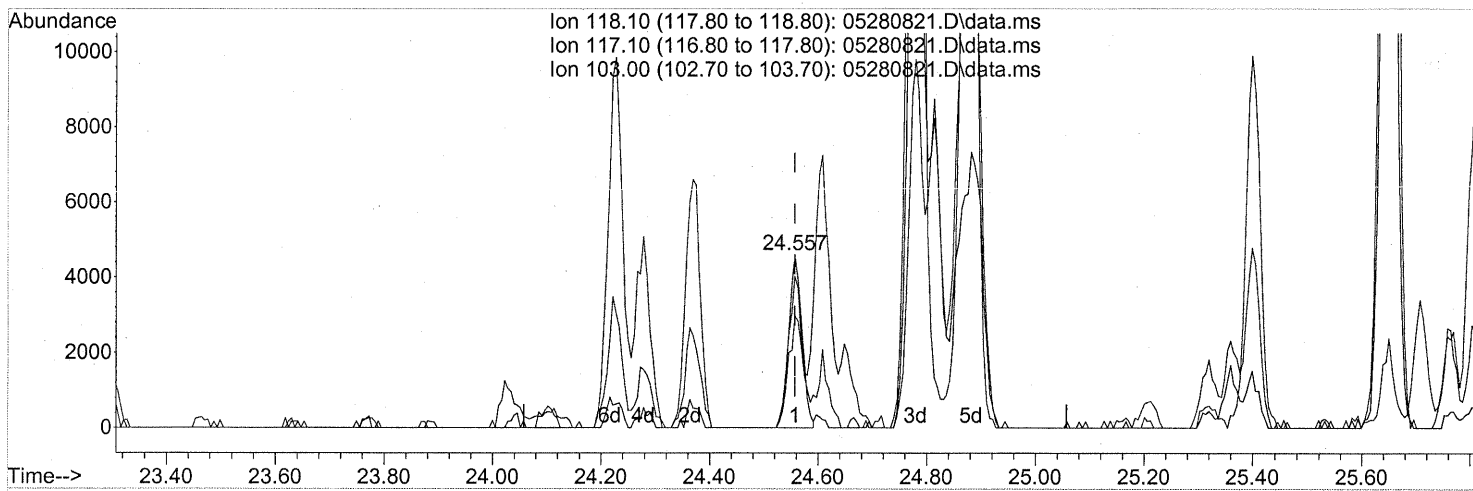
24.370min (-0.000) 2.07ng

response 159063

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 49.40 | 49.41 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

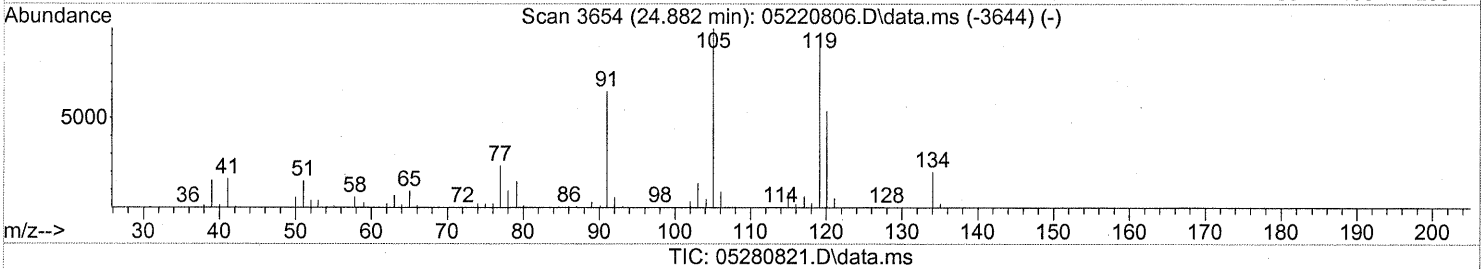
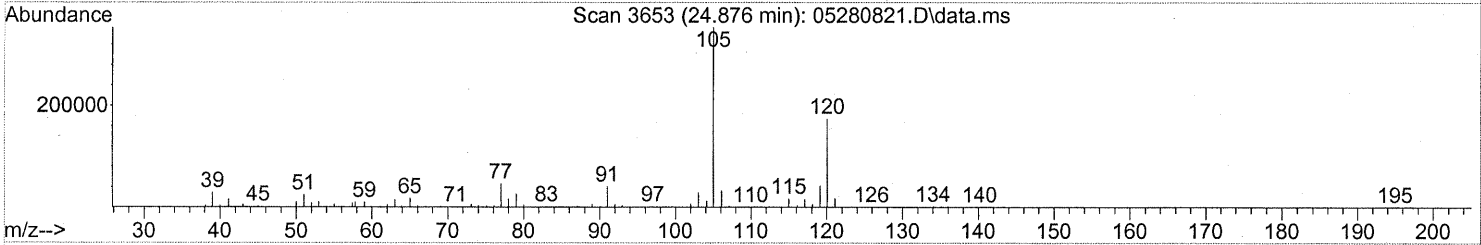
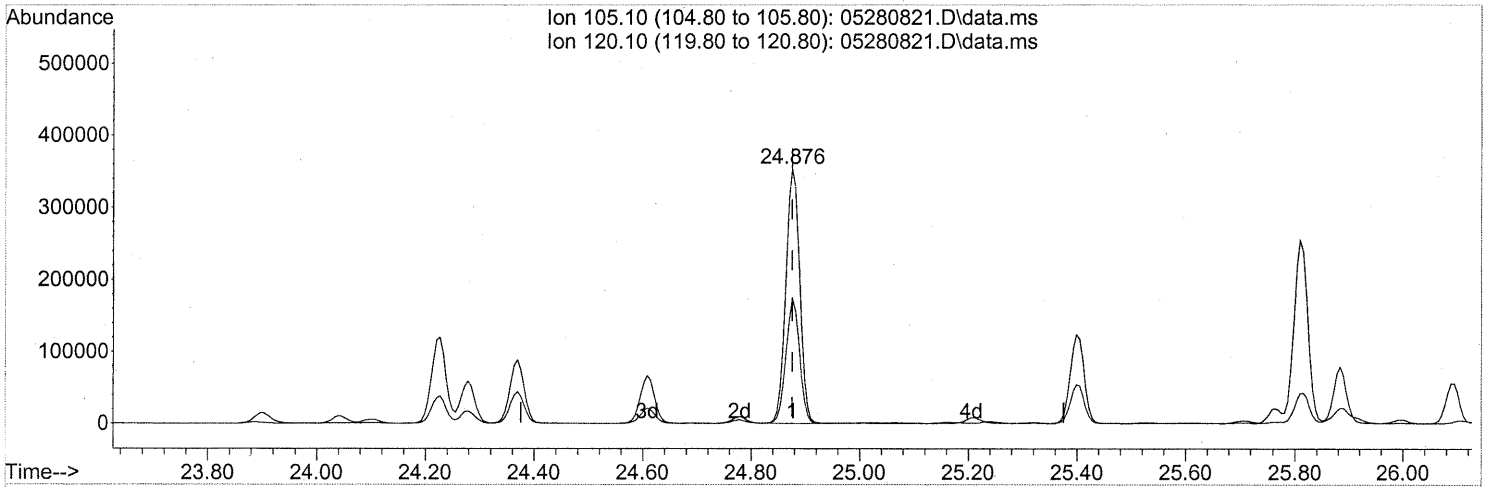
24.557min (-0.000) 0.19ng

response 7913

| Ion | Exp% | Act% |
|--------|-------|-------|
| 118.10 | 100 | 100 |
| 117.10 | 84.10 | 98.03 |
| 103.00 | 55.30 | 71.10 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

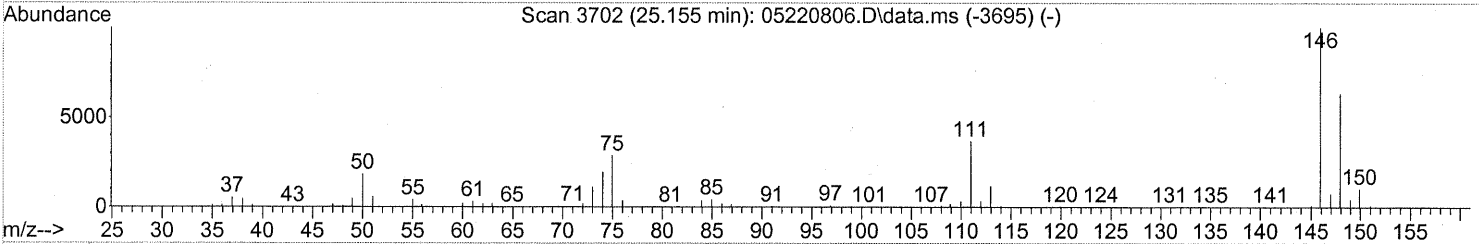
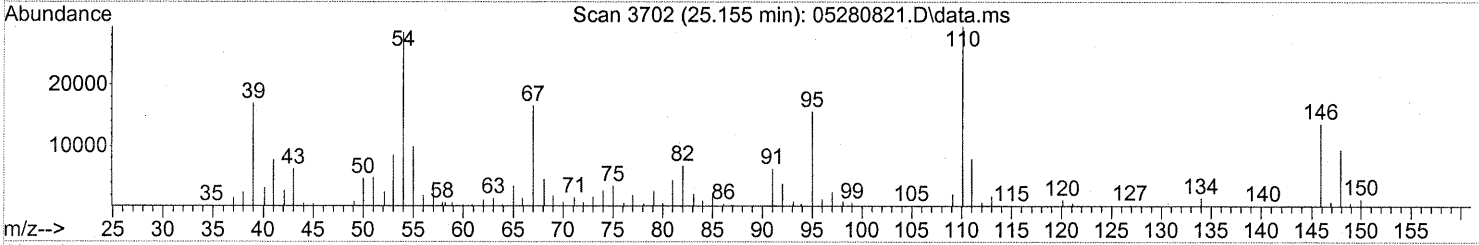
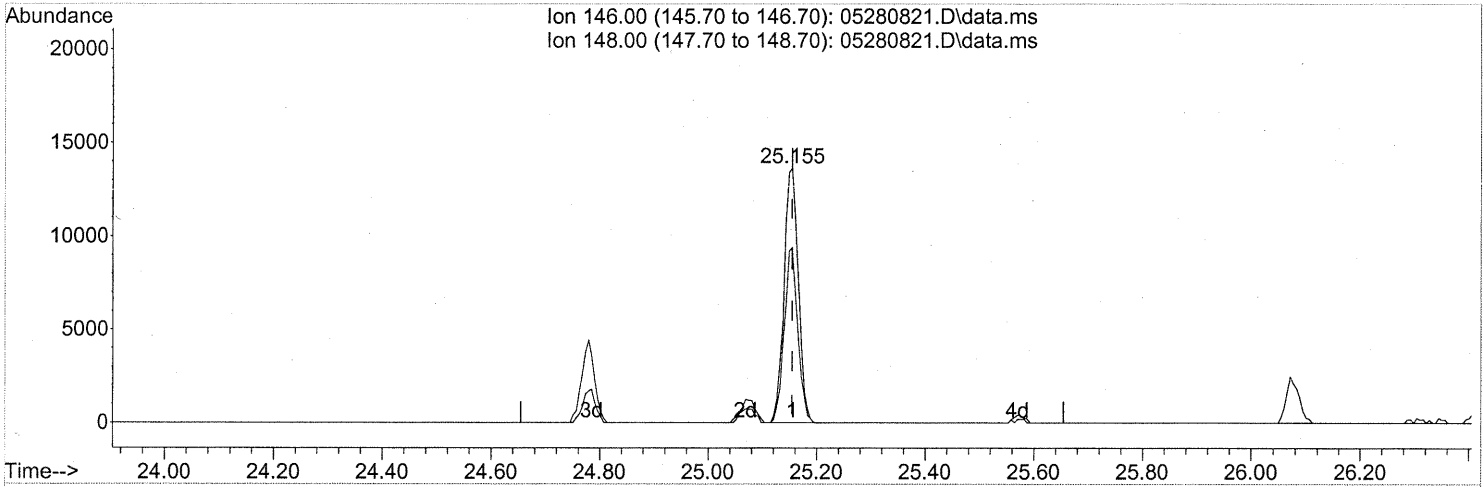
24.876min (-0.000) 8.09ng

response 631212

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 47.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.53ng

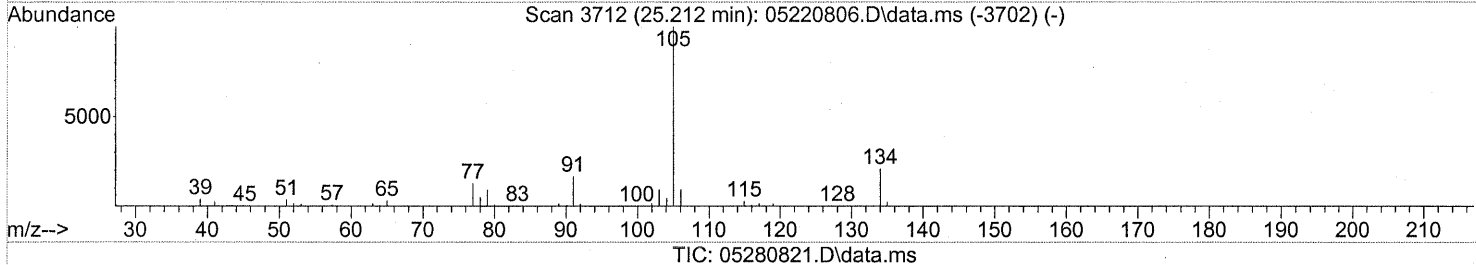
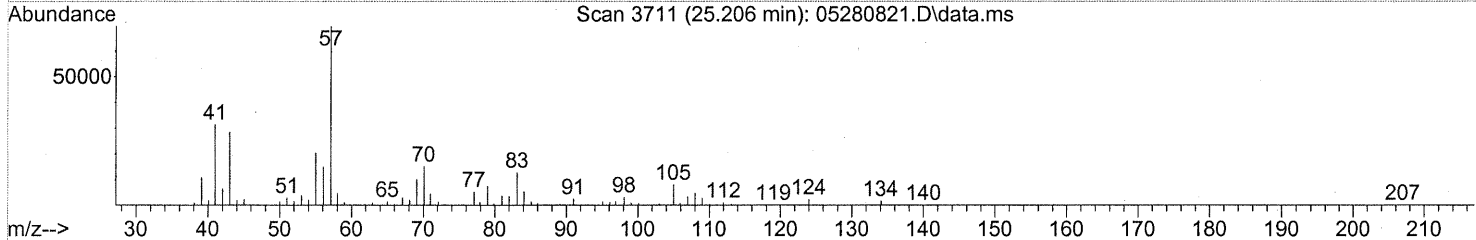
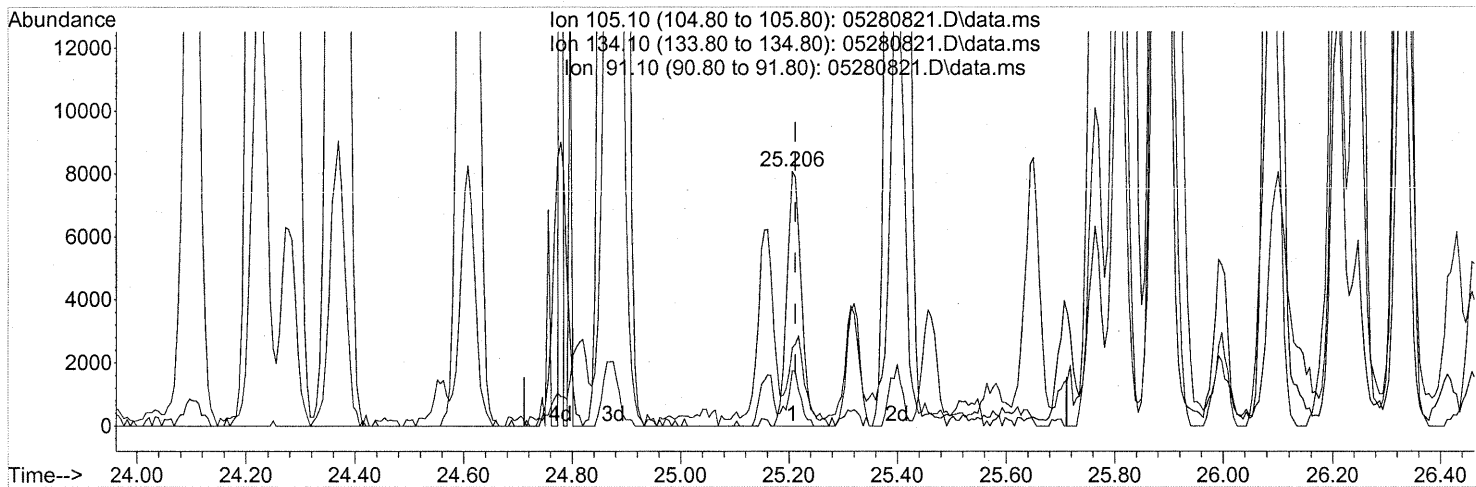
response 24911

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 65.06 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1469

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

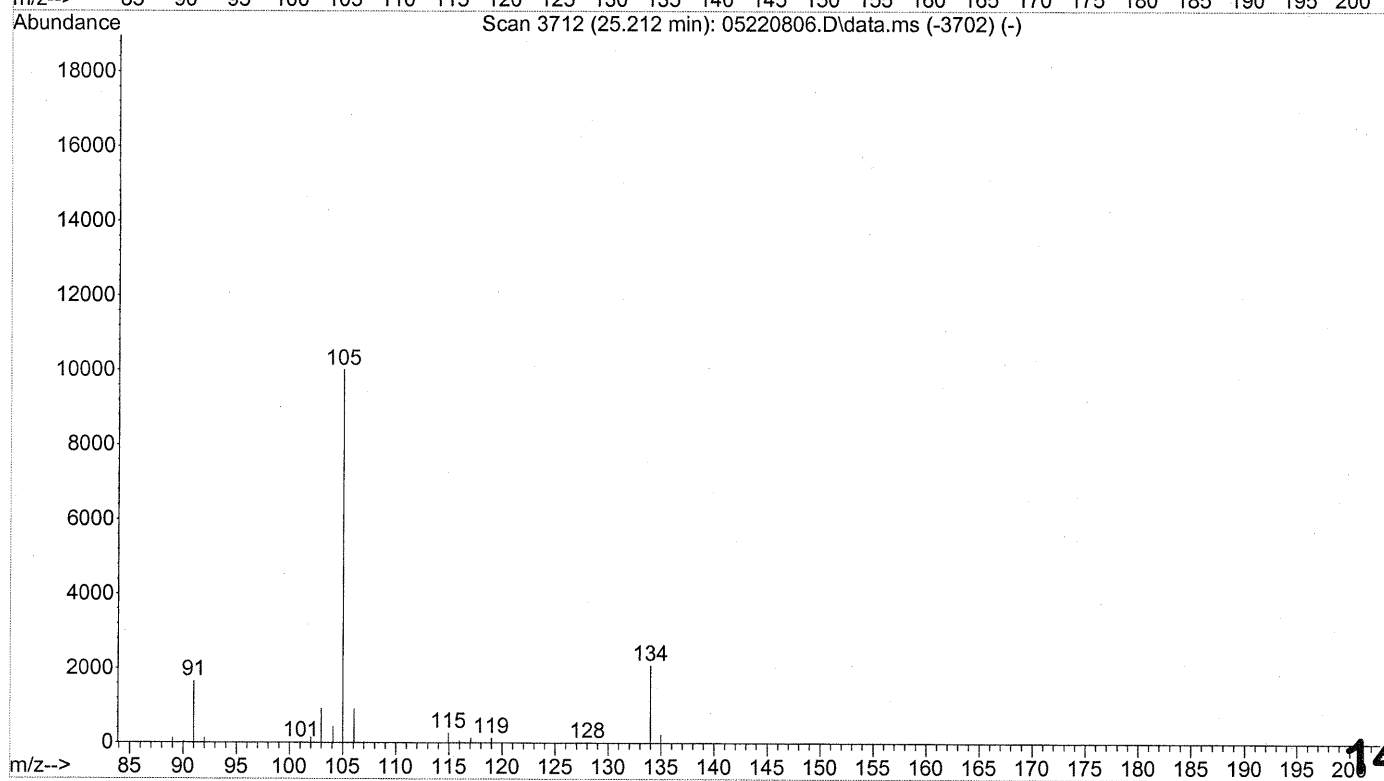
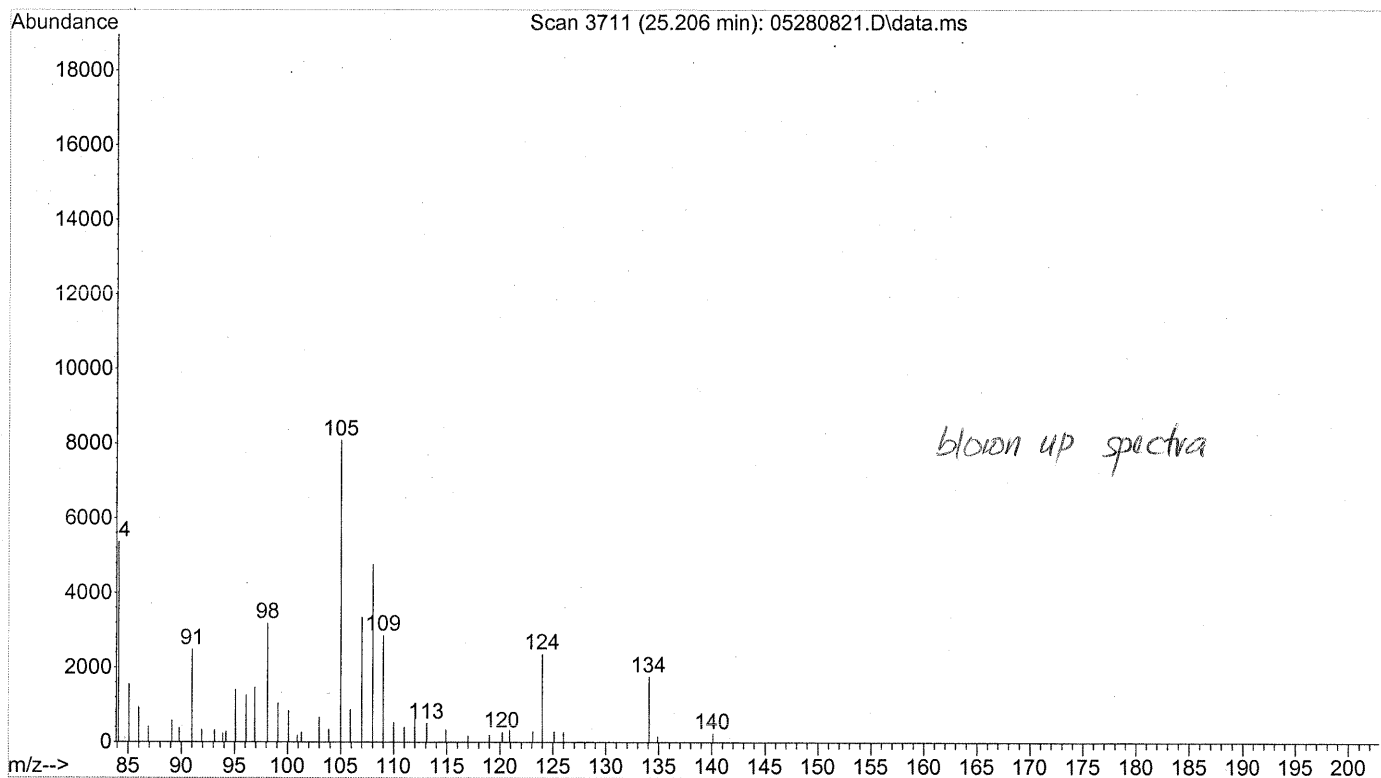
25.206min (-0.006) 0.15ng

response 15146

see blown up spectra

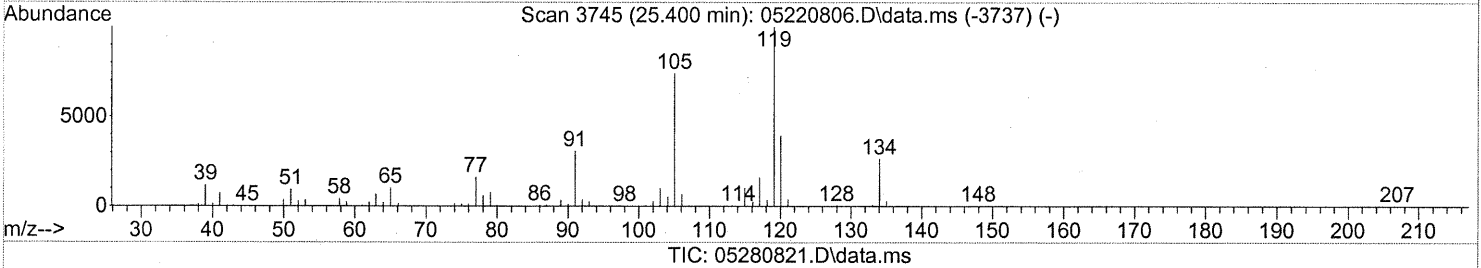
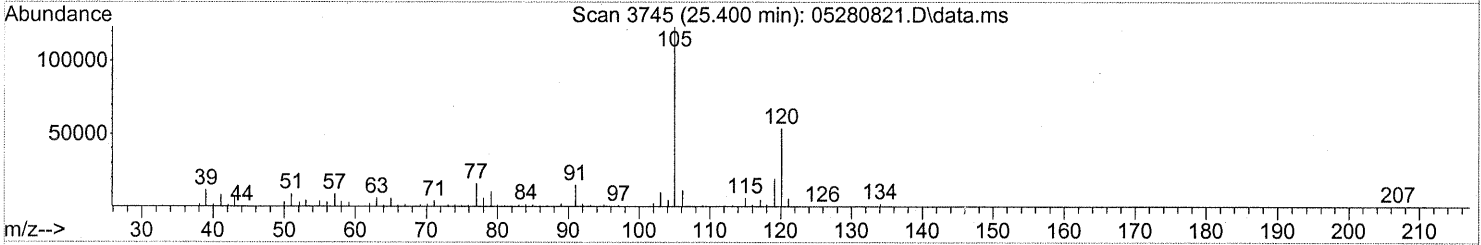
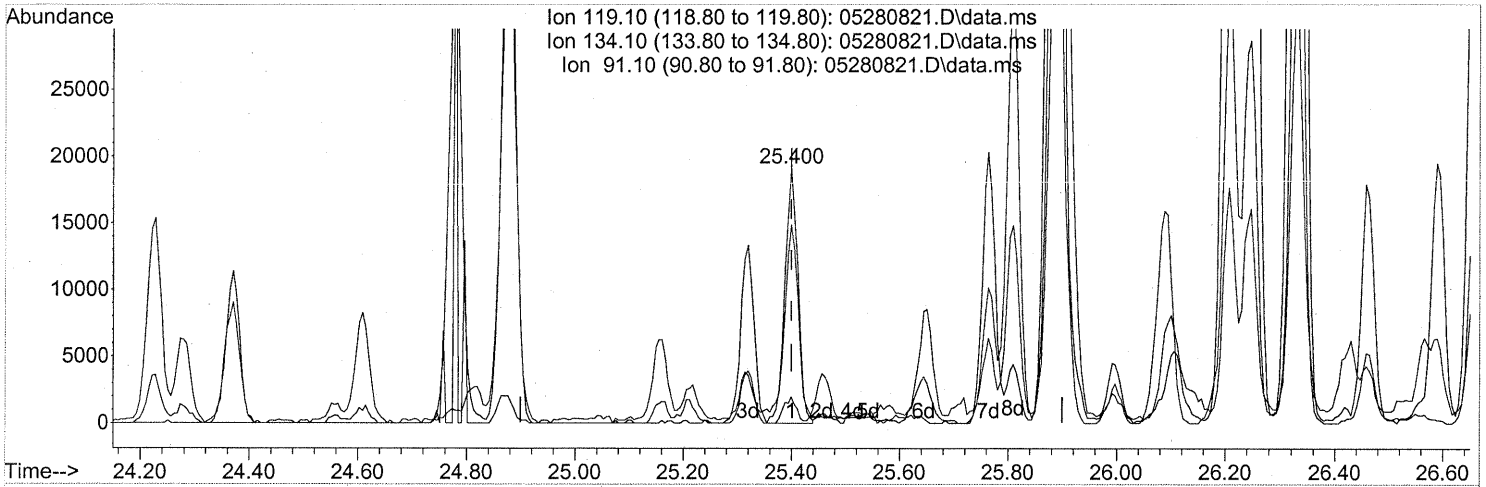
| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 134.10 | 20.90 | 18.70 |
| 91.10 | 14.60 | 31.08 |
| 0.00 | 0.00 | 0.00 |

File : J:\MS13\DATA\2008_05\28\05280821.D
Operator : WA
Acquired : 29 May 2008 00:53 using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0801483-030 (1000ml)
Misc Info : ENSR SG18B-05 (-3.2, 3.5)
Vial Number: 2



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.39ng

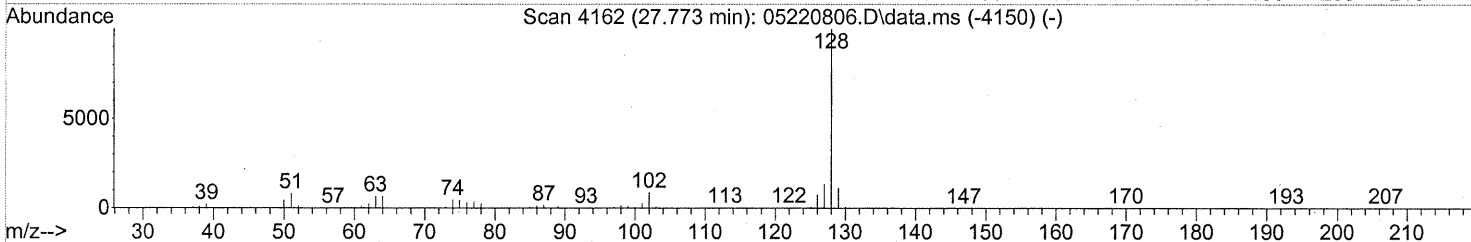
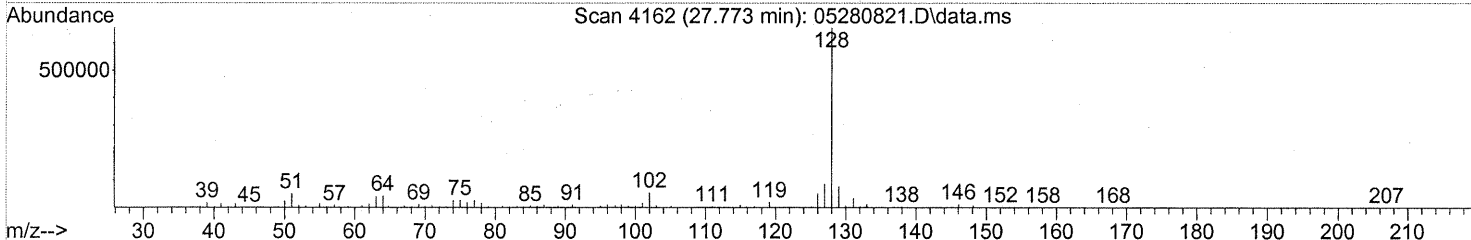
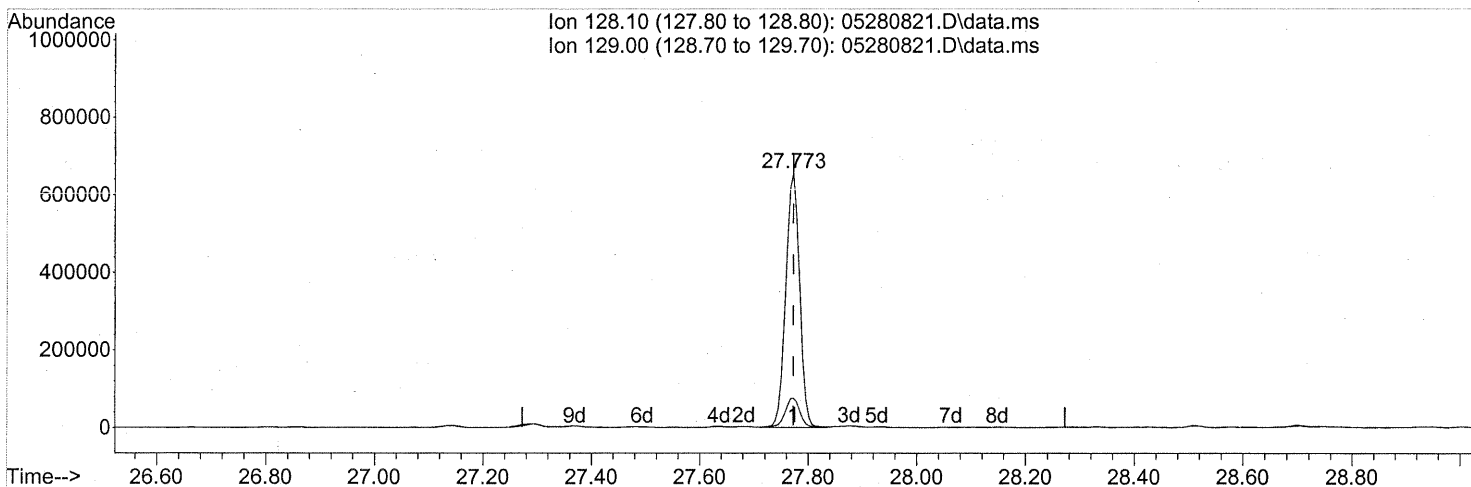
response 32178

| Ion | Exp% | Act% |
|--------|-------|--------|
| 119.10 | 100 | 100 |
| 134.10 | 27.20 | 9.70 |
| 91.10 | 27.10 | 76.99# |
| 0.00 | 0.00 | 0.00 |

1472

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280821.D\data.ms

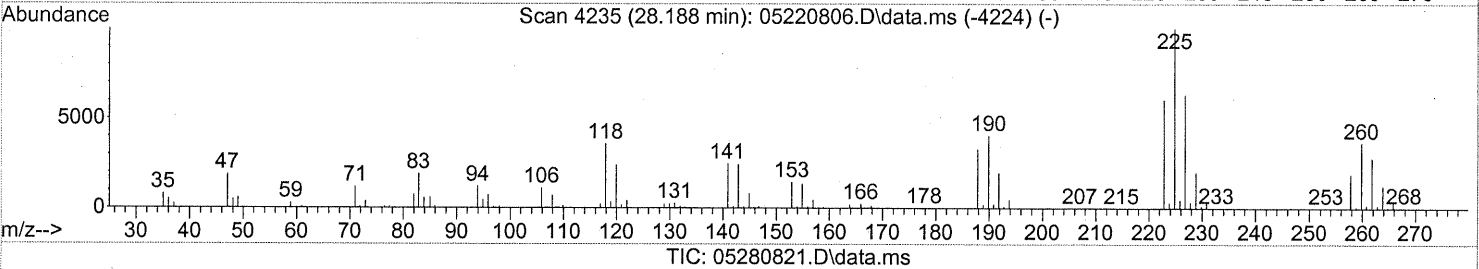
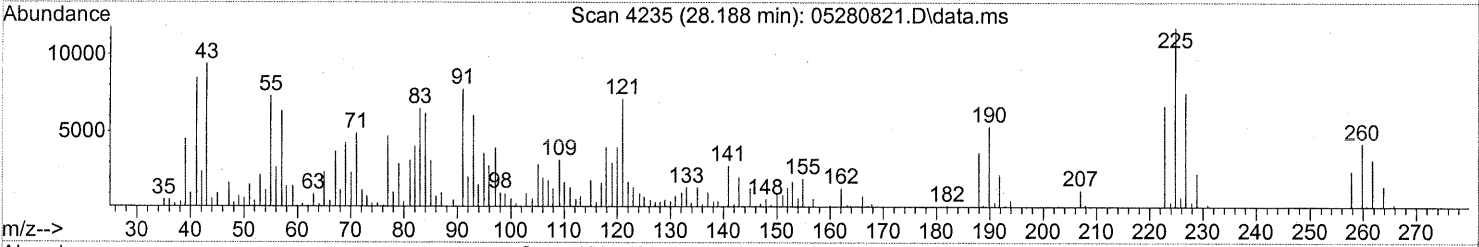
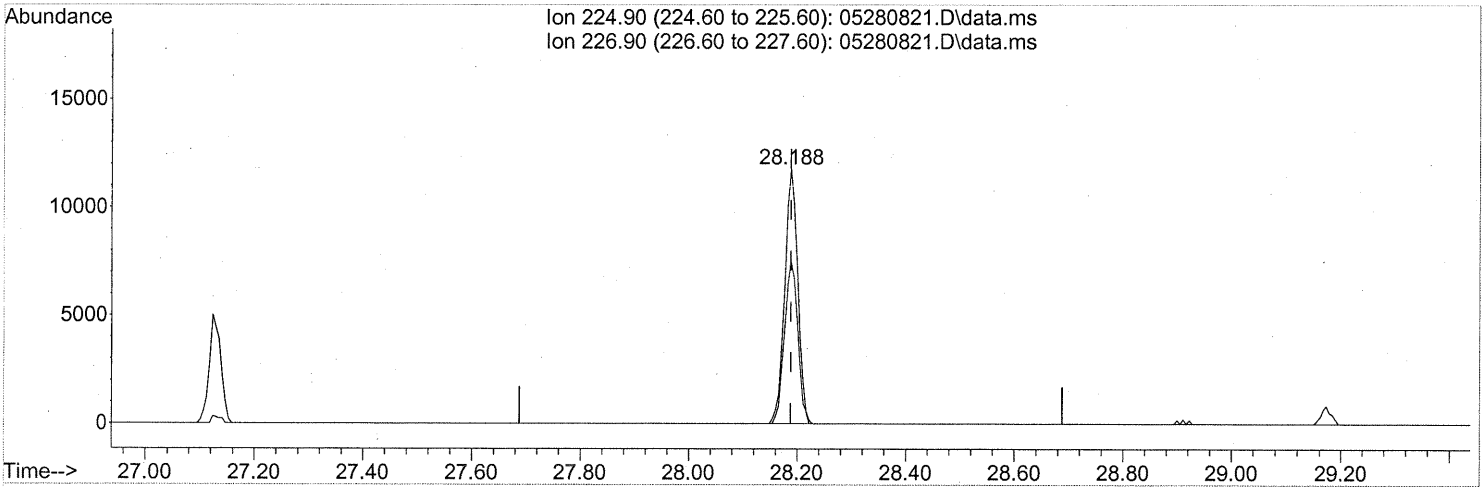
(95) Naphthalene (T)
 27.773min (-0.000) 11.25ng
 response 1158385

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 12.28 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1473

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 04:16:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

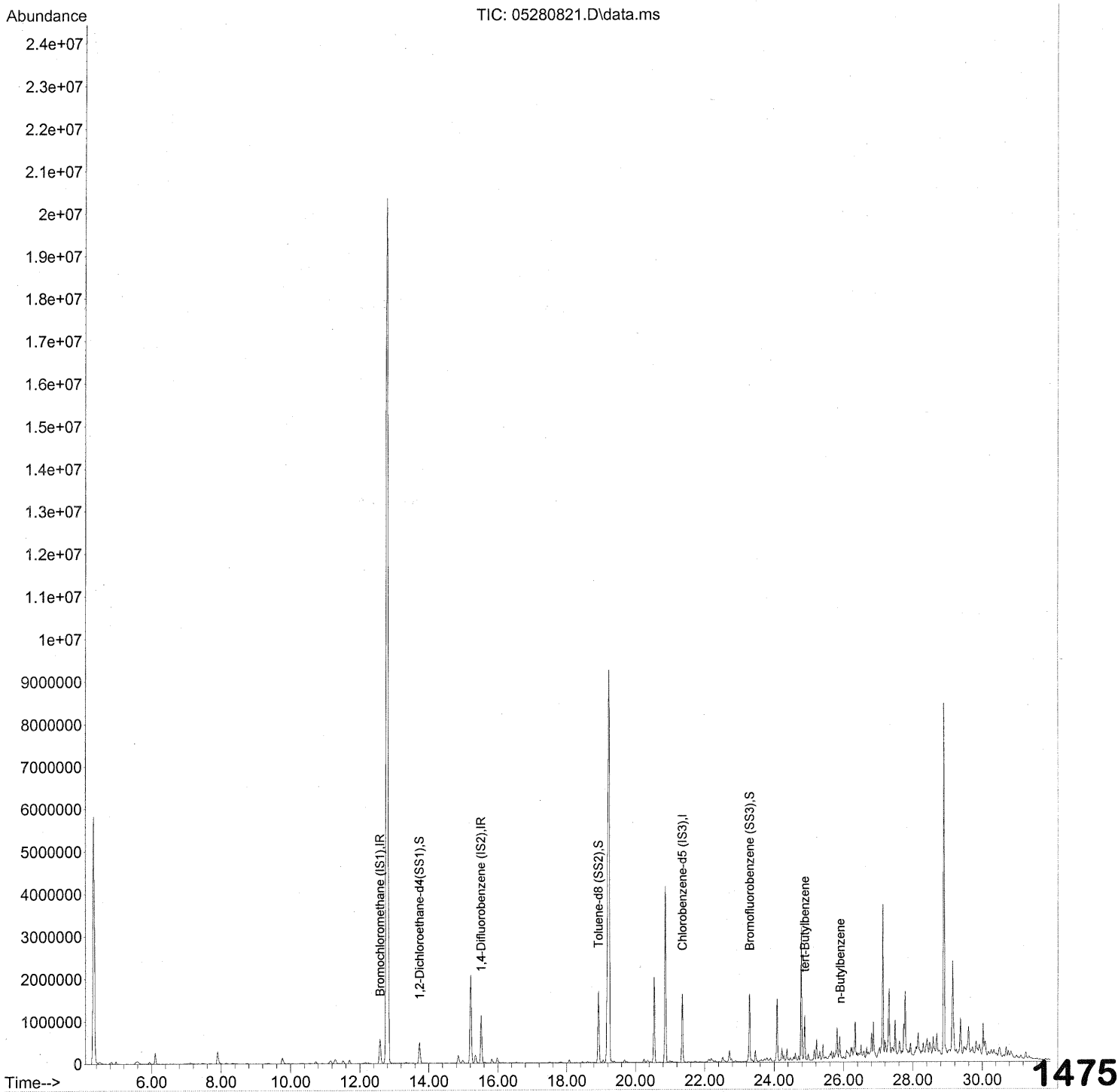
28.188min (-0.000) 0.88ng

response 19754

| Ion | Exp% | Act% |
|--------|-------|-------|
| 224.90 | 100 | 100 |
| 226.90 | 62.80 | 65.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 12:53 am
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:24:19 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 12:53 am
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

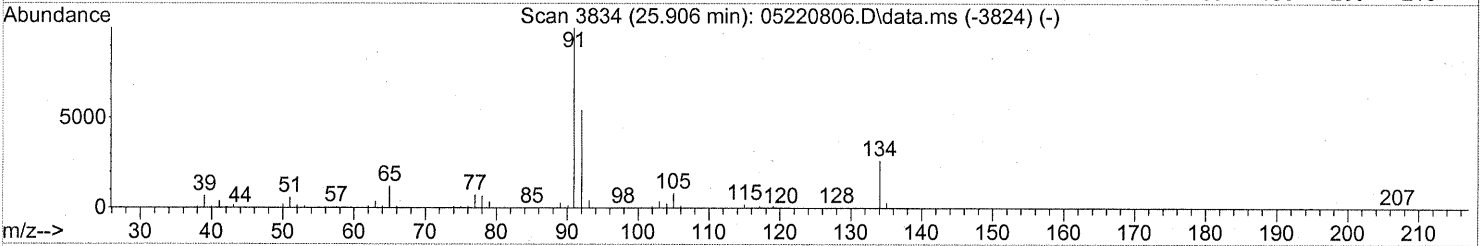
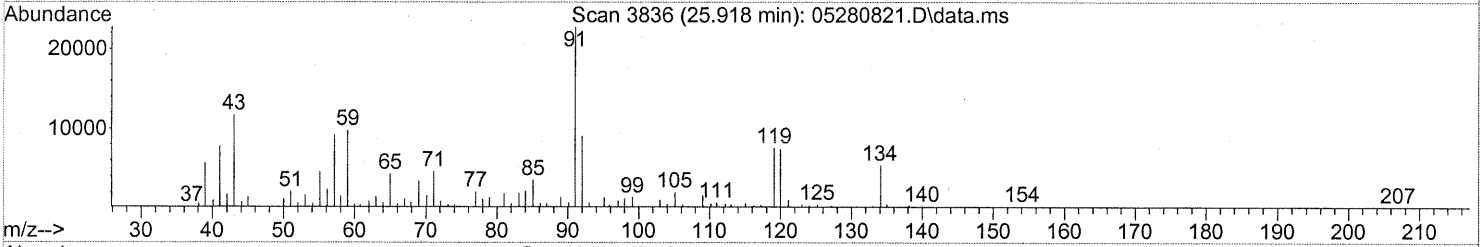
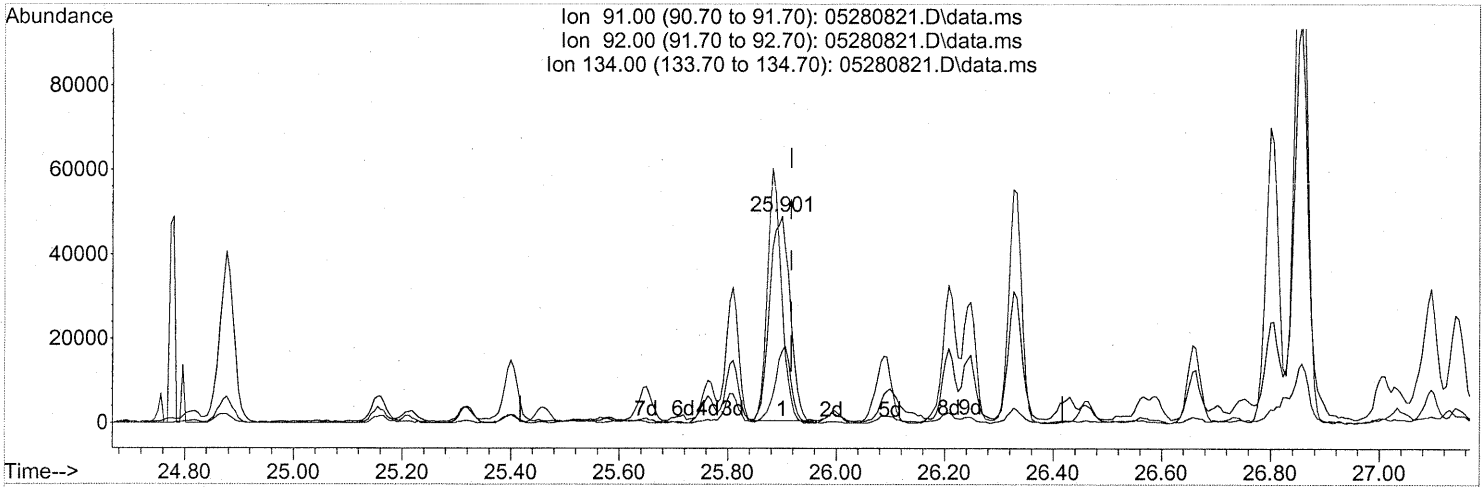
Quant Time: May 31 13:24:19 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|------------------------------------|--------|------|----------|---------------------|------------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 321448 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1328682 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 635385 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 500358 | 22.465 | ng | -0.02 |
| Spiked Amount | 25.000 | | | | Recovery = | 89.84% |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 1414292 | 24.784 | ng | -0.01 |
| Spiked Amount | 25.000 | | | | Recovery = | 99.12% |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 593994 | 25.598 | ng | 0.00 |
| Spiked Amount | 25.000 | | | | Recovery = | 102.40% |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 77594 | 1.040 ng | UR # | 65 |
| 8) n-Butylbenzene | 25.90 | 91 | 127127 | 1.541 ng | #M | 58 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280821.D
 Acq On : 29 May 2008 00:53
 Operator : WA
 Sample : P0801483-030 (1000ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 13:24:19 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

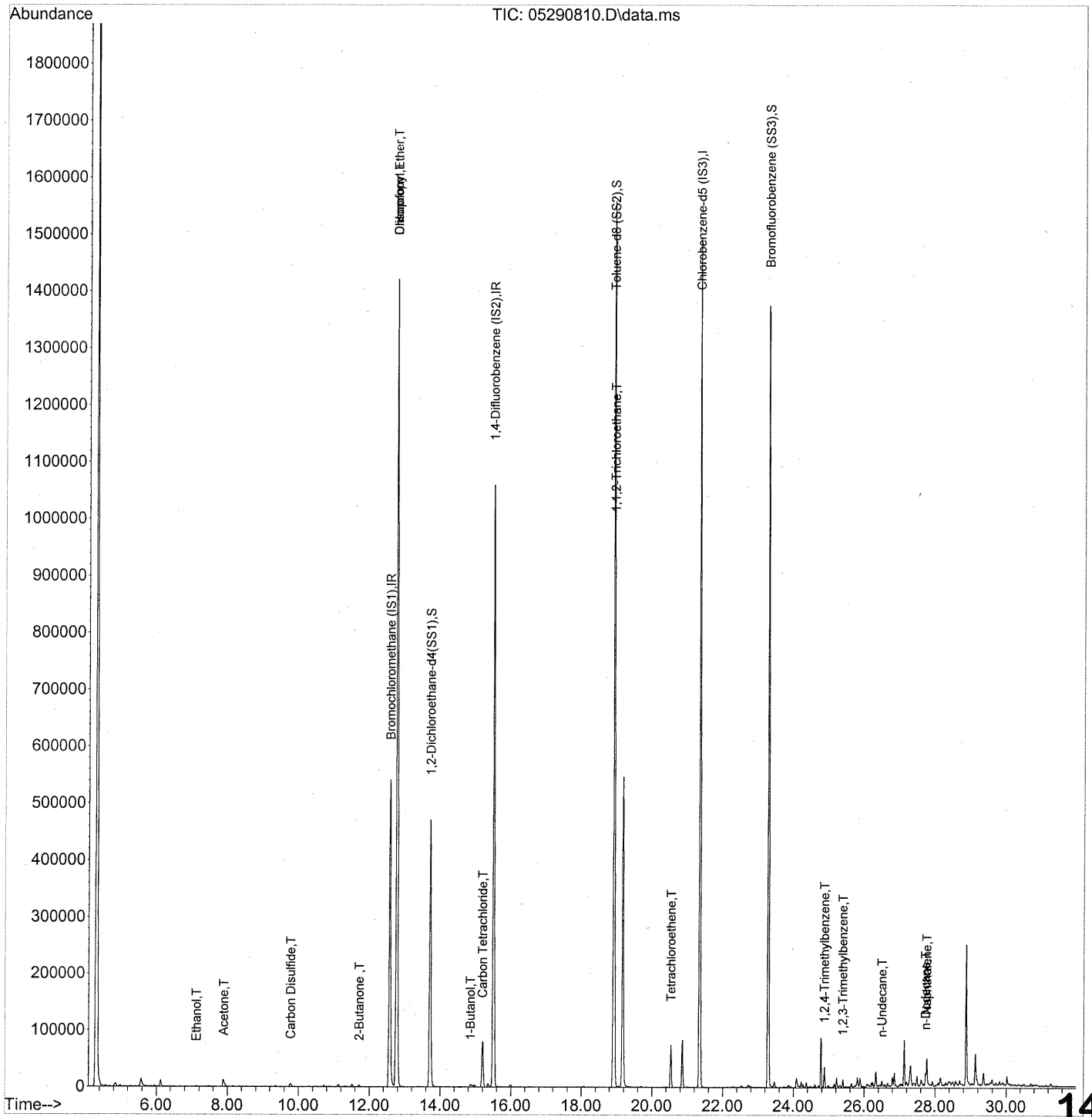


(8) n-Butylbenzene
 25.901min (-0.017) 1.54ng
 response 127127

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 29.65# |
| 134.00 | 28.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290810.D
 Acq On : 29 May 2008 11:28
 Operator : WA
 Sample : P0801483-030 Dil (50ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 20:15:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1478

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290810.D
 Acq On : 29 May 2008 11:28
 Operator : WA
 Sample : P0801483-030 Dil (50ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 20:15:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 284810 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1221456 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 578085 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---------------------------------|--------|-----|----------|--------|--------|-------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 486504 | 24.653 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 98.60% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1272930 | 24.518 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 98.08% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 523500 | 24.796 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.20% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.83 | 42 | 819 | N.D. | | |
| 3) Dichlorodifluoromethane | 4.98 | 85 | 2321 | N.D. | | |
| 4) Chloromethane | 0.00 | 50 | 0 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.12 | 45 | 1931 | 0.129 | ng | # 61 |
| 11) Acetonitrile | 7.46 | 41 | 742 | N.D. | | |
| 12) Acrolein | 7.68 | 56 | 215 | N.D. | | |
| 13) Acetone | 7.89 | 58 | 7889 | 0.515 | ng | # 84 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 863 | N.D. | | |
| 15) Isopropanol | 8.34 | 45 | 1089 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.29 | 59 | 380 | N.D. | | |
| 19) Methylene Chloride | 9.35 | 84 | 292 | N.D. | | |
| 20) Allyl Chloride | 0.00 | 41 | 0 | N.D. | | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | | |
| 22) Carbon Disulfide | 9.78 | 76 | 12806 | 0.197 | ng | 97 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 390 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 26) Vinyl Acetate | 11.32 | 86 | 88 | N.D. | | |
| 27) 2-Butanone | 11.71 | 72 | 1146 | 0.102 | ng | # 87 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.77 | 87 | 155826 | 11.364 | ng | # 1 |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 12.70 | 57 | 55 | N.D. | | |

1479

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290810.D
 Acq On : 29 May 2008 11:28
 Operator : WA
 Sample : P0801483-030 Dil (50ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 20:15:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.77 | 83 | 1491852 | 57.443 | ng | 100 |
| 34) Tetrahydrofuran | 13.40 | 72 | 54 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.71 | 62 | 192 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.86 | 56 | 5239 | 0.312 | ng | 100 |
| 41) Benzene | 14.99 | 78 | 4387 | N.D. | | |
| 42) Carbon Tetrachloride | 15.20 | 117 | 68424 | 2.778 | ng | 100 |
| 43) Cyclohexane | 15.35 | 84 | 53 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 0.00 | 83 | 0 | N.D. | | |
| 47) Trichloroethene | 16.53 | 130 | 192 | N.D. | | |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 186 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 111576 | 7.060 | ng | # 8 |
| 58) Toluene | 19.05 | 91 | 2134 | N.D. | | |
| 59) 2-Hexanone | 19.38 | 43 | 923 | N.D. | | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 0.00 | 43 | 0 | N.D. | | |
| 63) n-Octane | 0.00 | 57 | 0 | N.D. | | |
| 64) Tetrachloroethene | 20.54 | 166 | 27044 | 1.295 | ng | 99 |
| 65) Chlorobenzene | 21.35 | 112 | 57 | N.D. | | |
| 66) Ethylbenzene | 21.89 | 91 | 60 | N.D. | | |
| 67) m- & p-Xylene | 22.13 | 91 | 187 | N.D. | | |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.59 | 104 | 290 | N.D. | | |
| 70) o-Xylene | 22.72 | 91 | 1033 | N.D. | | |
| 71) n-Nonane | 22.96 | 43 | 416 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | N.D. | | |
| 74) Cumene | 23.47 | 105 | 55 | N.D. | | |
| 75) alpha-Pinene | 24.10 | 93 | 111 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 1491 | N.D. | | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 7606 | N.D. | | |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3799 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 5085 | N.D. | | |

1480

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290810.D
 Acq On : 29 May 2008 11:28
 Operator : WA
 Sample : P0801483-030 Dil (50ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

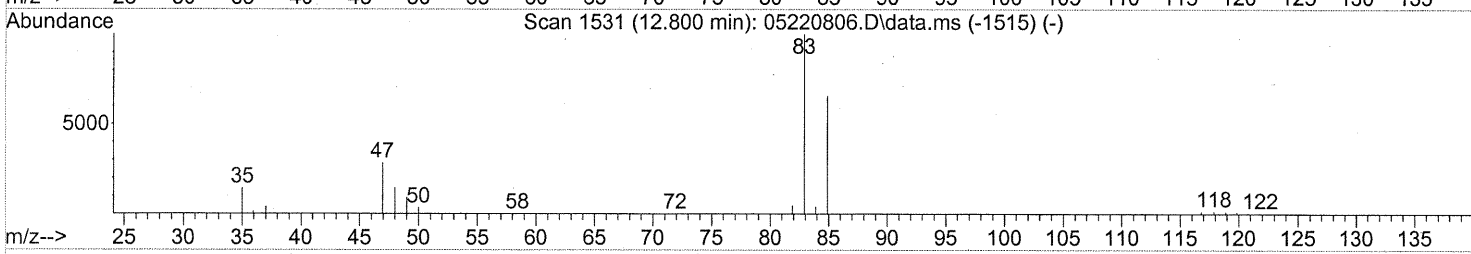
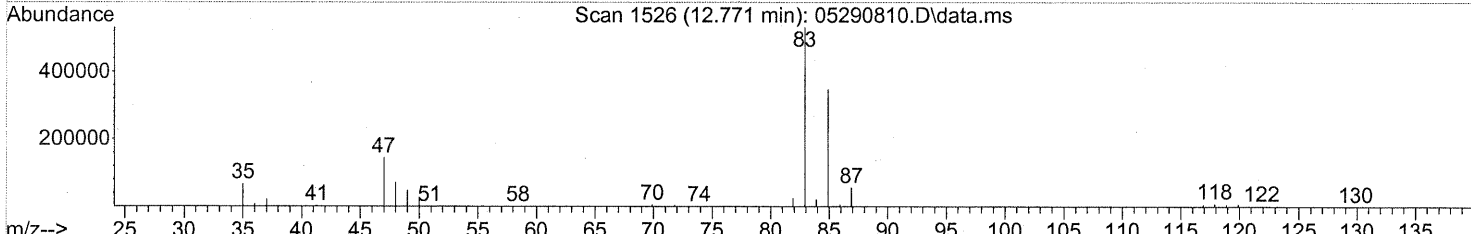
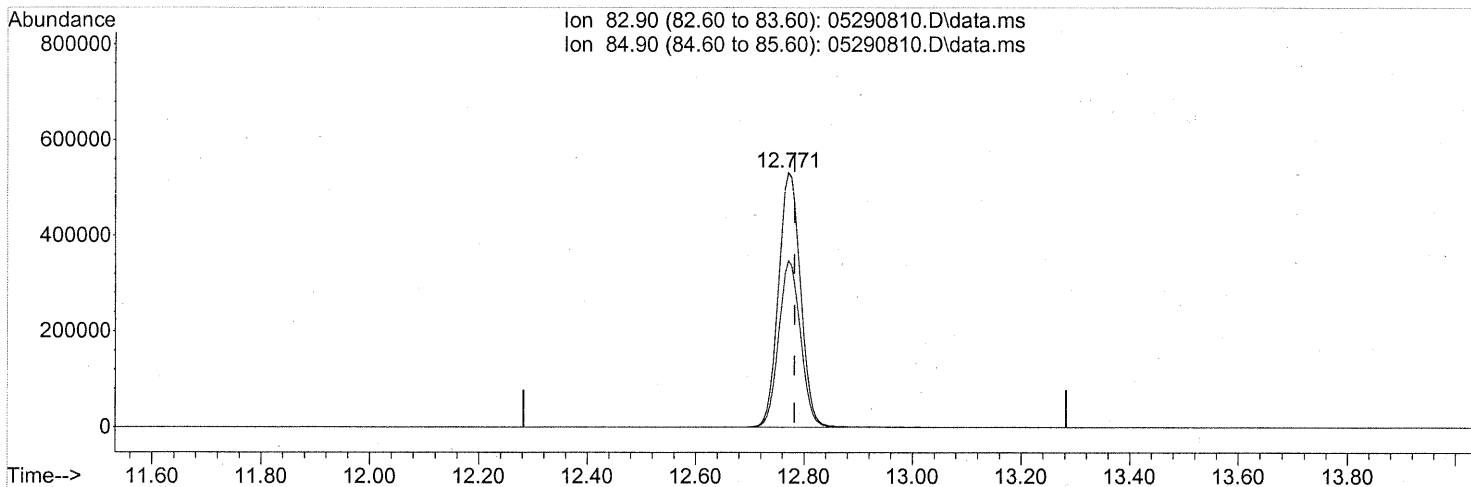
Quant Time: May 29 20:15:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 132 | N.D. | | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 4031 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 21651 | 0.305 | ng | 86 |
| 83) n-Decane | 24.99 | 57 | 1194 | N.D. | | |
| 84) Benzyl Chloride | 25.15 | 91 | 353 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.15 | 146 | 1020 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 1020 | N.D. | | |
| 87) sec-Butylbenzene | 25.21 | 105 | 425 | N.D. | | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 1125 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 7416 | 0.107 | ng | 80 |
| 90) 1,2-Dichlorobenzene | 25.15 | 146 | 1020 | N.D. | | |
| 91) d-Limonene | 25.57 | 68 | 136 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 4450 | 0.109 | ng | 81 |
| 94) 1,2,4-Trichlorobenzene | 0.00 | 180 | 0 | N.D. | | |
| 95) Naphthalene | 27.77 | 128 | 36406 | 0.389 | ng | 98 |
| 96) n-Dodecane | 27.73 | 57 | 7180 | 0.177 | ng | 79 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 564 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290810.D
 Acq On : 29 May 2008 11:28
 Operator : WA
 Sample : P0801483-030 Dil (50ml)
 Misc : ENSR SG18B-05 (-3.2, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 20:15:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.771min (-0.012) 57.44ng
 response 1491852

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 64.69 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | 0.050 | ND | 0.10 | 0.010 | |
| 74-87-3 | Chloromethane | ND | 0.10 | 0.050 | ND | 0.048 | 0.024 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | 0.050 | ND | 0.072 | 0.0072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.10 | 0.050 | ND | 0.039 | 0.020 | |
| 74-83-9 | Bromomethane | ND | 0.10 | 0.050 | ND | 0.026 | 0.013 | |
| 75-00-3 | Chloroethane | ND | 0.10 | 0.050 | ND | 0.038 | 0.019 | |
| 64-17-5 | Ethanol | 0.12 | 5.0 | 0.050 | 0.063 | 2.7 | 0.027 | J |
| 67-64-1 | Acetone | 0.36 | 5.0 | 0.073 | 0.15 | 2.1 | 0.031 | J |
| 75-69-4 | Trichlorofluoromethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0089 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | 0.070 | ND | 0.23 | 0.032 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | 0.50 | 0.074 | ND | 0.17 | 0.024 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | 0.050 | ND | 0.14 | 0.014 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.10 | 0.050 | ND | 0.032 | 0.016 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.10 | 0.056 | ND | 0.013 | 0.0073 | |
| 75-15-0 | Carbon Disulfide | ND | 0.50 | 0.12 | ND | 0.16 | 0.039 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.10 | 0.050 | ND | 0.028 | 0.014 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | 0.16 | ND | 1.4 | 0.045 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 0.50 | 0.050 | ND | 0.17 | 0.017 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.50 | 0.059 | ND | 0.12 | 0.014 | |
| 67-66-3 | Chloroform | ND | 0.10 | 0.059 | ND | 0.020 | 0.012 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/4/08

1483

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.50 | 0.051 | ND | 0.12 | 0.012 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 71-43-2 | Benzene | ND | 0.10 | 0.050 | ND | 0.031 | 0.016 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.10 | 0.050 | ND | 0.016 | 0.0080 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.50 | 0.050 | ND | 0.12 | 0.012 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.10 | 0.050 | ND | 0.022 | 0.011 | |
| 75-27-4 | Bromodichloromethane | ND | 0.10 | 0.050 | ND | 0.015 | 0.0075 | |
| 79-01-6 | Trichloroethene | ND | 0.10 | 0.050 | ND | 0.019 | 0.0093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | 0.061 | ND | 0.14 | 0.017 | |
| 80-62-6 | Methyl Methacrylate | ND | 0.50 | 0.075 | ND | 0.12 | 0.018 | |
| 142-82-5 | n-Heptane | ND | 0.50 | 0.064 | ND | 0.12 | 0.016 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.052 | ND | 0.11 | 0.011 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | 0.056 | ND | 0.12 | 0.014 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.063 | ND | 0.11 | 0.014 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 108-88-3 | Toluene | ND | 0.50 | 0.050 | ND | 0.13 | 0.013 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | 0.076 | ND | 0.12 | 0.019 | |
| 124-48-1 | Dibromochloromethane | ND | 0.10 | 0.068 | ND | 0.012 | 0.0080 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.10 | 0.054 | ND | 0.013 | 0.0070 | |
| 111-65-9 | n-Octane | ND | 0.50 | 0.050 | ND | 0.11 | 0.011 | |
| 127-18-4 | Tetrachloroethene | ND | 0.10 | 0.050 | ND | 0.015 | 0.0074 | |
| 108-90-7 | Chlorobenzene | ND | 0.10 | 0.051 | ND | 0.022 | 0.011 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By:

Date: 6/4/08

1484

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.062 | ND | 0.12 | 0.014 | |
| 179601-23-1 | m,p-Xylenes | ND | 0.50 | 0.13 | ND | 0.12 | 0.030 | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.076 | ND | 0.048 | 0.0074 | |
| 100-42-5 | Styrene | ND | 0.50 | 0.076 | ND | 0.12 | 0.018 | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.063 | ND | 0.12 | 0.015 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.064 | ND | 0.015 | 0.0093 | |
| 98-82-8 | Cumene | ND | 0.50 | 0.056 | ND | 0.10 | 0.011 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.052 | ND | 0.10 | 0.011 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | 0.057 | ND | 0.10 | 0.012 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.060 | ND | 0.10 | 0.012 | |
| 98-83-9 | alpha-Methylstyrene | ND | 0.50 | 0.073 | ND | 0.10 | 0.015 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.069 | ND | 0.10 | 0.014 | |
| 100-44-7 | Benzyl Chloride | ND | 0.10 | 0.086 | ND | 0.019 | 0.017 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.10 | 0.062 | ND | 0.017 | 0.010 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.10 | 0.056 | ND | 0.017 | 0.0093 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.058 | ND | 0.091 | 0.011 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | ND | 0.50 | 0.065 | ND | 0.091 | 0.012 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.10 | 0.066 | ND | 0.017 | 0.011 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.076 | ND | 0.052 | 0.0079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.076 | ND | 0.013 | 0.010 | |
| 91-20-3 | Naphthalene | 0.082 | 0.20 | 0.074 | 0.016 | 0.038 | 0.014 | J |
| 87-68-3 | Hexachlorobutadiene | ND | 0.10 | 0.090 | ND | 0.0094 | 0.0084 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |
| 104-51-8 | n-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

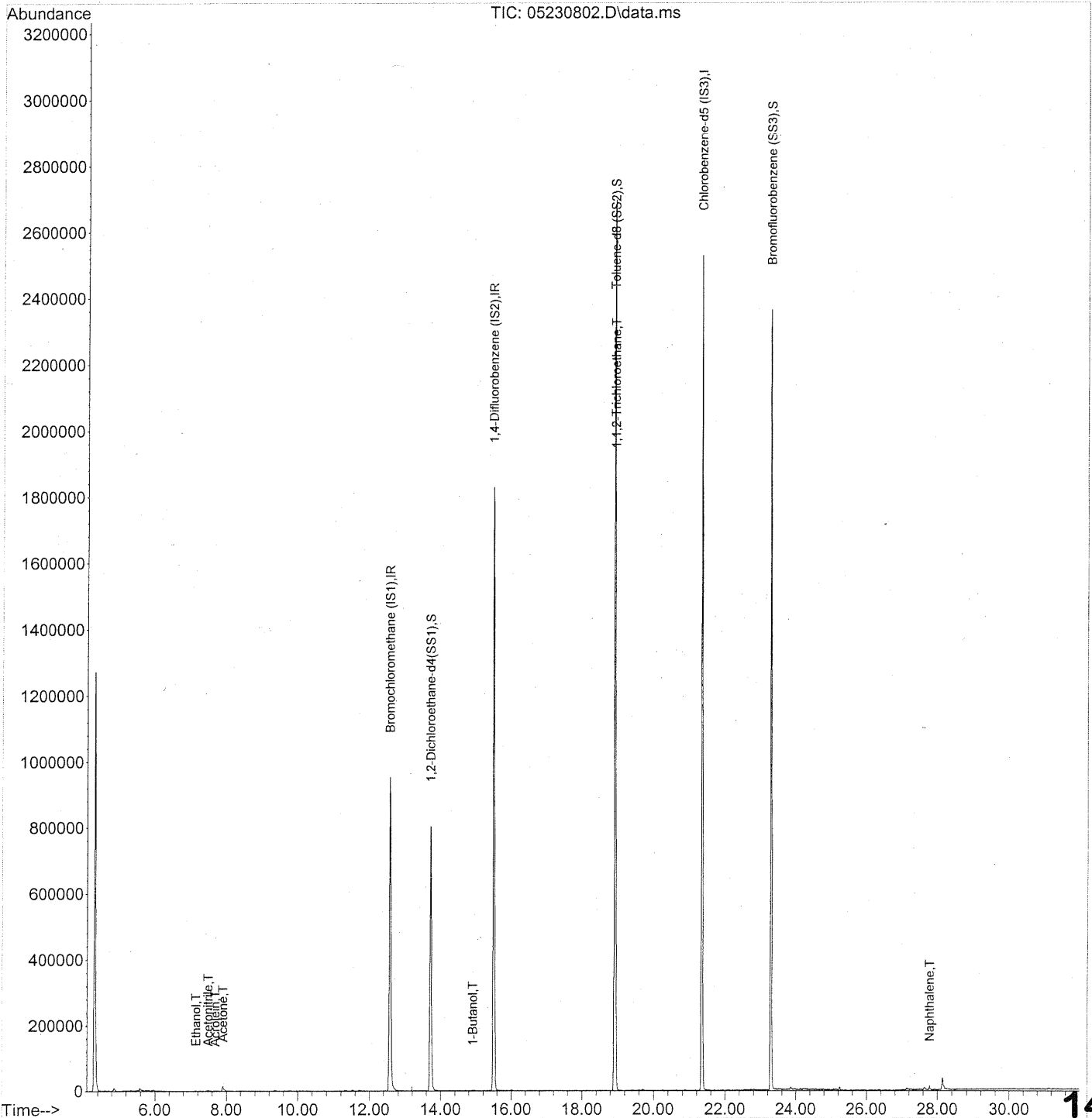
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08

1485

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230802.D
Acq On : 23 May 2008 9:08
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:22:43 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1486

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:22:43 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 501092 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2131510 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 985961 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------------|---------|----------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 838107 | 24.139 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | 96.56% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2219773 | 25.068 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | 100.28% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 891867 | 24.768 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | 99.08% | ✓ |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|----------|-------|--------|
| 2) Propene | 4.85 | 42 | 1519 | N.D. | | ✓ |
| 3) Dichlorodifluoromethane | 4.93 | 85 | 53 | N.D. | | |
| 4) Chloromethane | 0.00 | 50 | 0 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 6.52 | 94 | 72 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.15 | 45 | 3117m | 0.118 ng | | ✓ |
| 11) Acetonitrile | 7.49 | 41 | 5300m | 0.070 ng | | ✓ |
| 12) Acrolein | 7.68 | 56 | 995m | 0.053 ng | | ✓ |
| 13) Acetone | 7.90 | 58 | 9715 | 0.360 ng | | 85 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 230 | N.D. | | |
| 15) Isopropanol | 8.40 | 45 | 1381 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.36 | 59 | 128 | N.D. | | |
| 19) Methylene Chloride | 9.36 | 84 | 1358 | N.D. | | |
| 20) Allyl Chloride | 9.54 | 41 | 58 | N.D. | | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | | |
| 22) Carbon Disulfide | 9.79 | 76 | 3604 | N.D. | | |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.22 | 73 | 61 | N.D. | | |
| 26) Vinyl Acetate | 11.33 | 86 | 52 | N.D. | | |
| 27) 2-Butanone | 11.72 | 72 | 747 | N.D. | | |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 12.70 | 57 | 63 | N.D. | | |

MS 30/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:22:43 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------------------|-------|----------|
| 32) Chloroform | 12.57 | 83 | 70 | N.D. | | |
| 34) Tetrahydrofuran | 0.00 | 72 | 0 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.78 | 62 | 56 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 14.25 | 97 | 58 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.92 | 56 | 1539 | 0.053 | ng | # 79 |
| 41) Benzene | 14.98 | 78 | 1028 | N.D. | | |
| 42) Carbon Tetrachloride | 0.00 | 117 | 0 | N.D. | | |
| 43) Cyclohexane | 15.49 | 84 | 1560 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 0.00 | 83 | 0 | N.D. | | |
| 47) Trichloroethene | 16.54 | 130 | 117 | N.D. | | |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 57 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 194280 | 7.044 ng | | # 8 |
| 58) Toluene | 19.04 | 91 | 1020 | N.D. | | |
| 59) 2-Hexanone | 19.44 | 43 | 2223 | N.D. | | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.23 | 43 | 324 | N.D. | | |
| 63) n-Octane | 0.00 | 57 | 0 | N.D. | | |
| 64) Tetrachloroethene | 0.00 | 166 | 0 | N.D. | | |
| 65) Chlorobenzene | 21.39 | 112 | 267 | N.D. | | |
| 66) Ethylbenzene | 21.90 | 91 | 1104 | N.D. | | |
| 67) m- & p-Xylene | 22.12 | 91 | 1010 | N.D. | | |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.58 | 104 | 606 | N.D. | | |
| 70) o-Xylene | 22.71 | 91 | 355 | N.D. | | |
| 71) n-Nonane | 22.98 | 43 | 158 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | N.D. | | |
| 74) Cumene | 23.45 | 105 | 996 | N.D. | | |
| 75) alpha-Pinene | 23.86 | 93 | 224 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 752 | N.D. | | |
| 77) 3-Ethyltoluene | 24.22 | 105 | 3468 | N.D. | | |
| 78) 4-Ethyltoluene | 24.32 | 105 | 1382 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.36 | 105 | 1417 | N.D. | | |

NR

M 5/30/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:22:43 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|----------|-------|----------|
| 80) alpha-Methylstyrene | 24.57 | 118 | 376 | N.D. | | |
| 81) 2-Ethyltoluene | 24.60 | 105 | 1351 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.89 | 105 | 2184 | N.D. | | |
| 83) n-Decane | 24.99 | 57 | 119 | N.D. | | |
| 84) Benzyl Chloride | 25.05 | 91 | 1945 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1777 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 2624 | N.D. | | |
| 87) sec-Butylbenzene | 25.22 | 105 | 491 | N.D. | | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 390 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 767 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1056 | N.D. | | |
| 91) d-Limonene | 25.58 | 68 | 198 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 243 | N.D. | | |
| 93) n-Undecane | 26.51 | 57 | 478 | N.D. | | |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 2481 | N.D. | | |
| 95) Naphthalene | 27.78 | 128 | 13150 | 0.082 mg | | 98 |
| 96) n-Dodecane | 27.74 | 57 | 855 | N.D. | | |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 301 | N.D. | | |

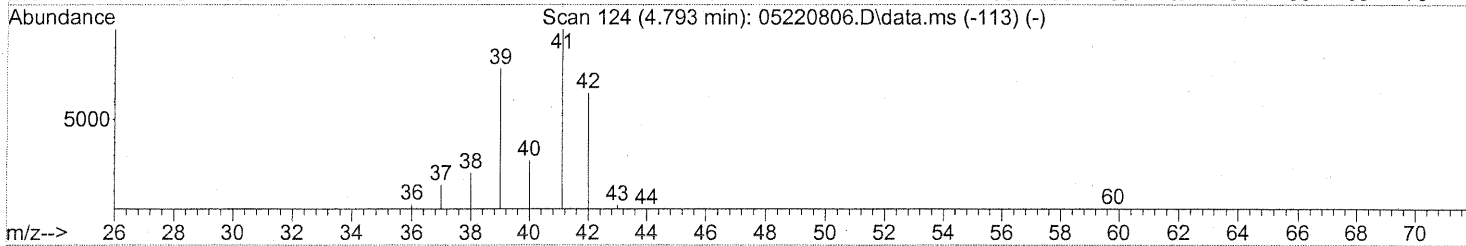
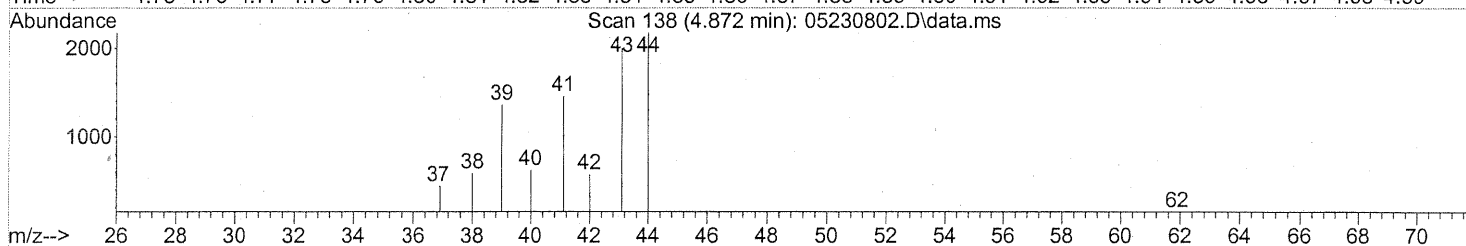
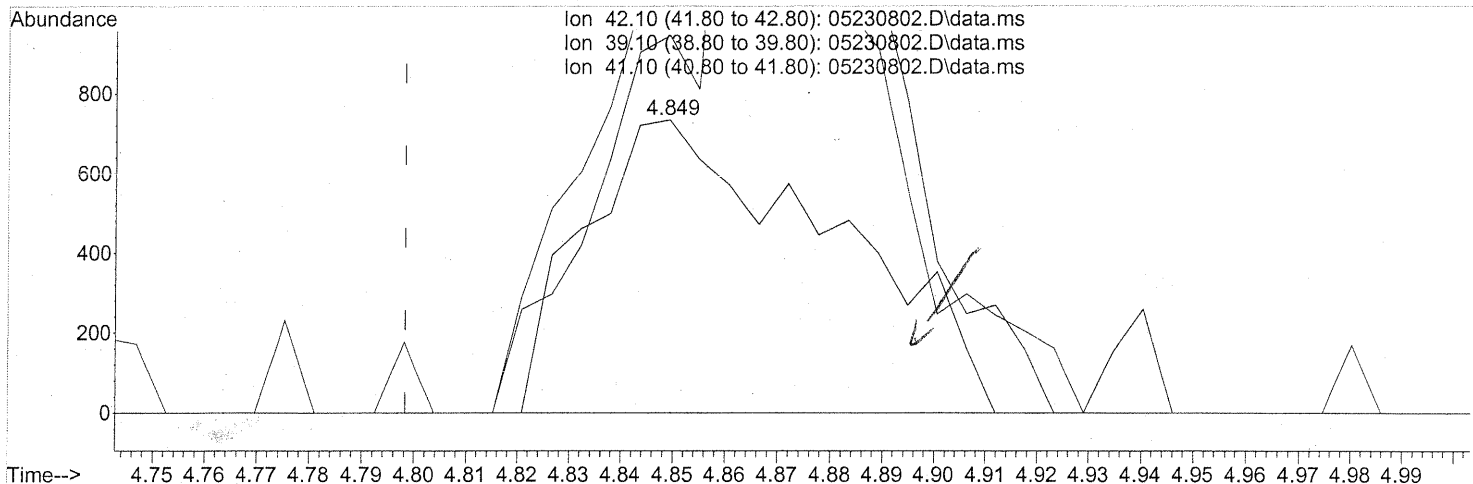
(#) = qualifier out of range (m) = manual integration (+) = signals summed

MS/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230802.D\data.ms

(2) Propene (T)
 4.849min (+0.051) 0.06ng
 response 2447

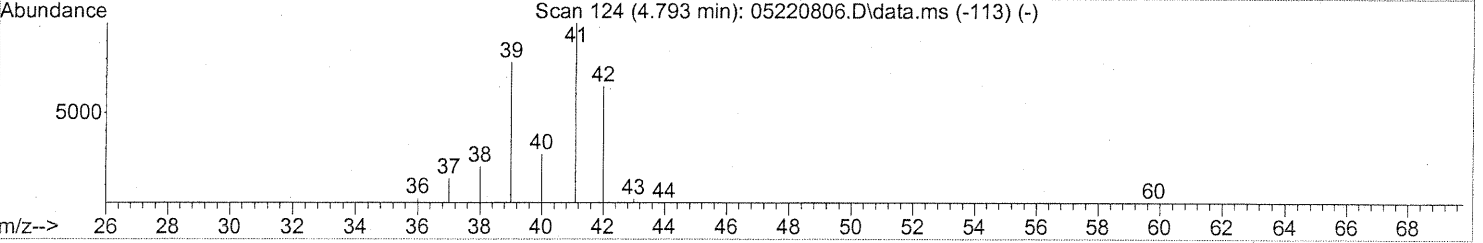
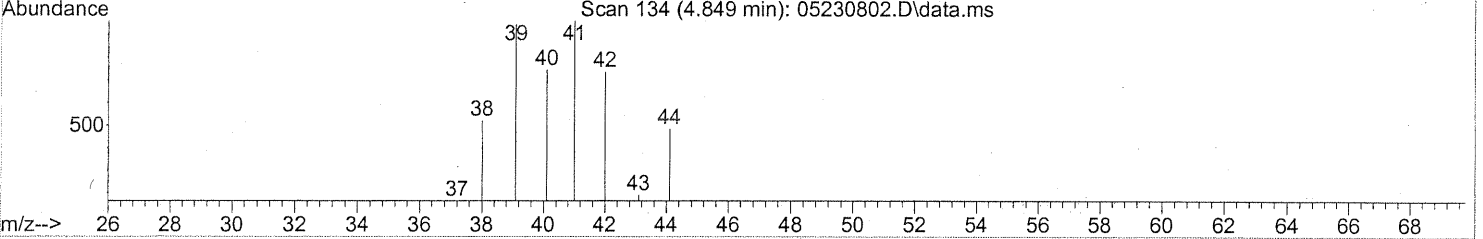
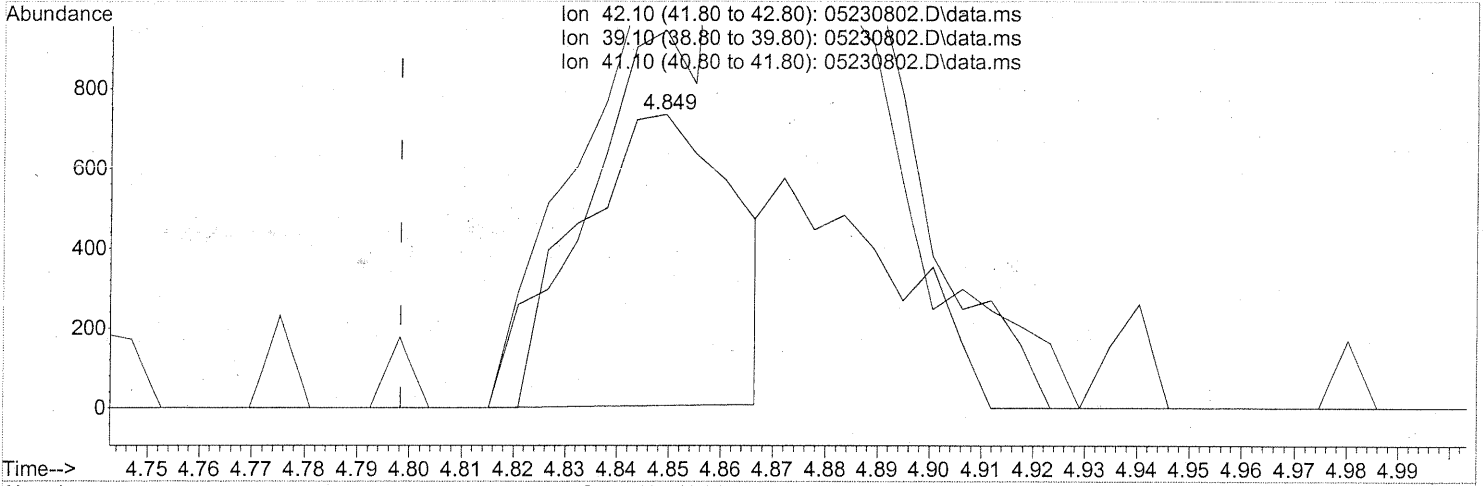
Shoulder interference

| Ion | Exp% | Act% |
|-------|--------|---------|
| 42.10 | 100 | 100 |
| 39.10 | 101.00 | 205.80# |
| 41.10 | 144.60 | 204.62# |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230802.D\data.ms

(2) Propene (T)
 4.849min (+0.051) 0.04ng m
 response 1519

| Ion | Exp% | Act% |
|-------|--------|---------|
| 42.10 | 100 | 100 |
| 39.10 | 101.00 | 331.53# |
| 41.10 | 144.60 | 329.62# |
| 0.00 | 0.00 | 0.00 |

*Remove shoulder
 interference
 MS/30/08*

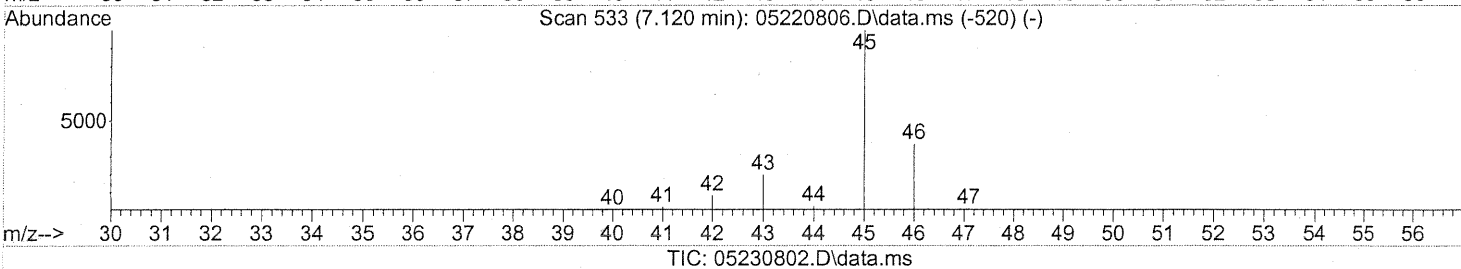
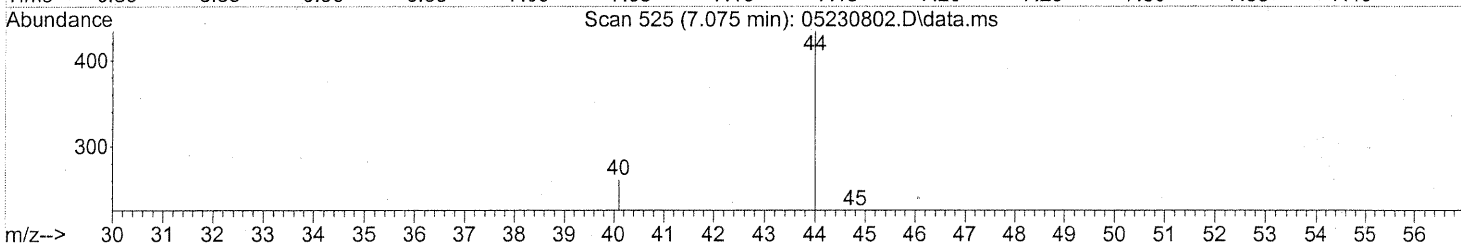
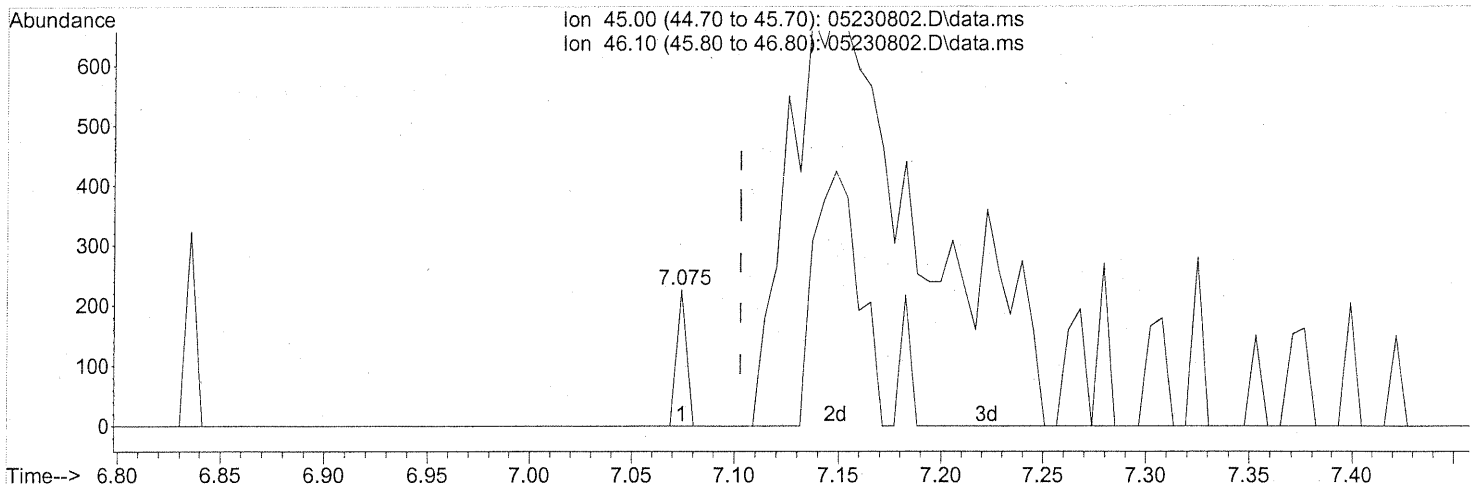
MS/30/08

1491

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.075min (-0.029) 0.00ng

response 77

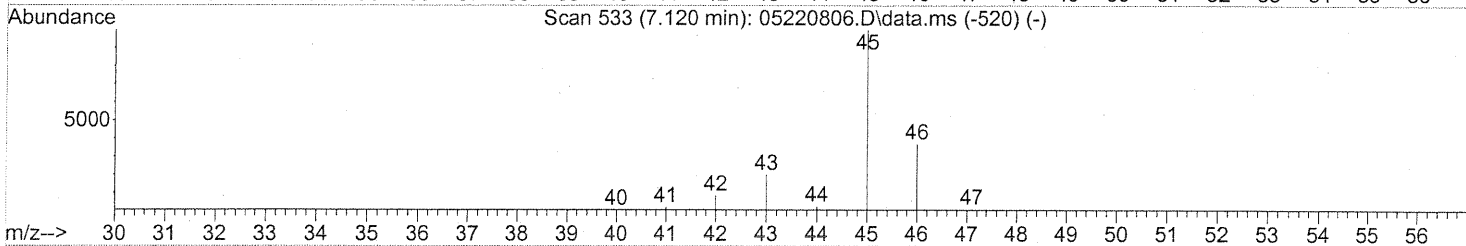
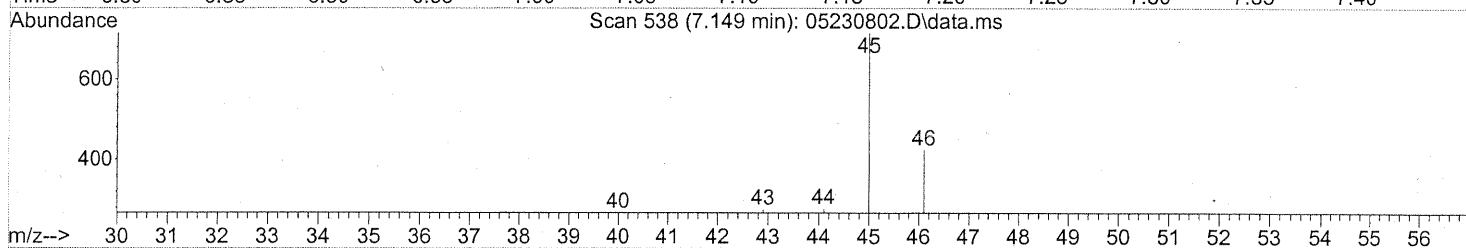
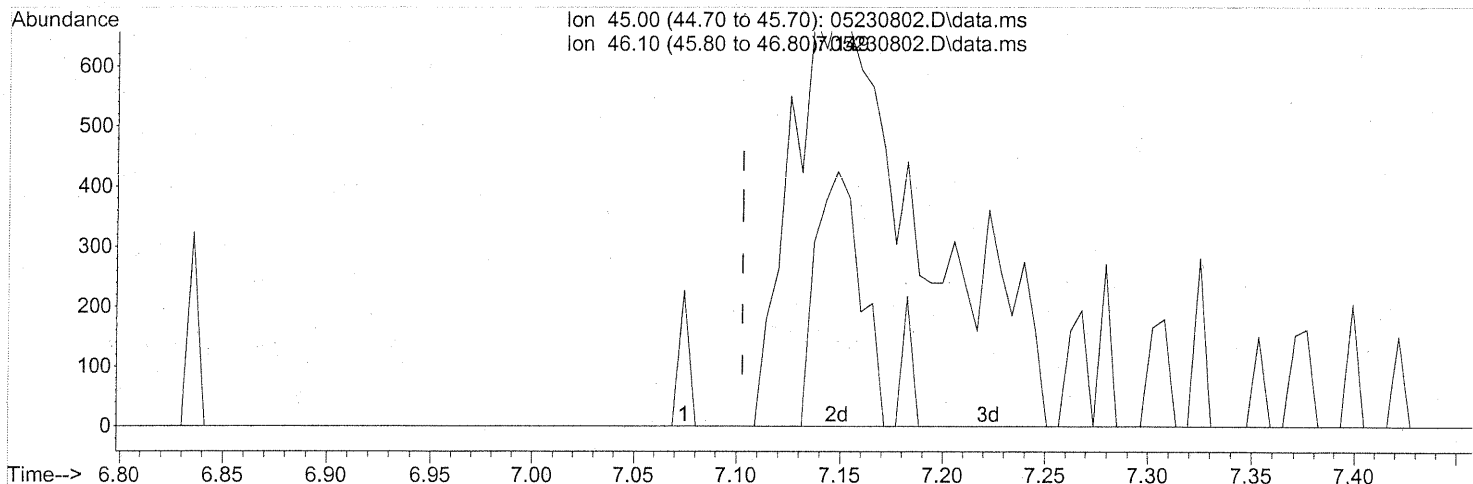
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

peak not integrated

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.149min (+0.045) 0.12ng m
 response 3117

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

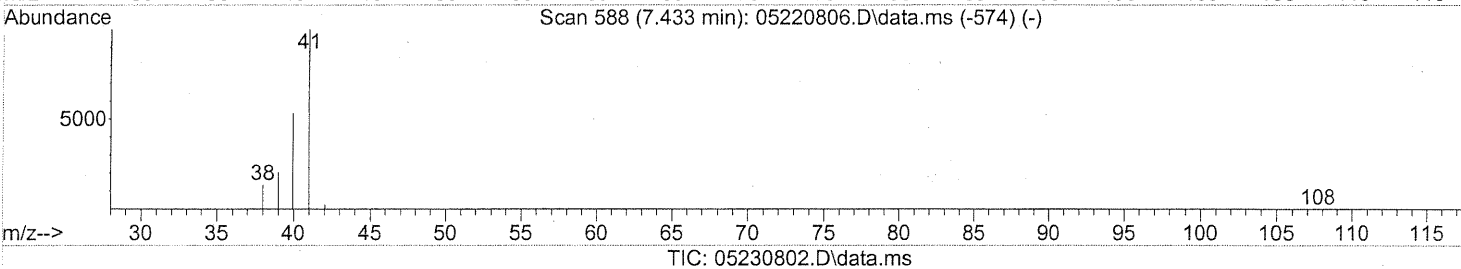
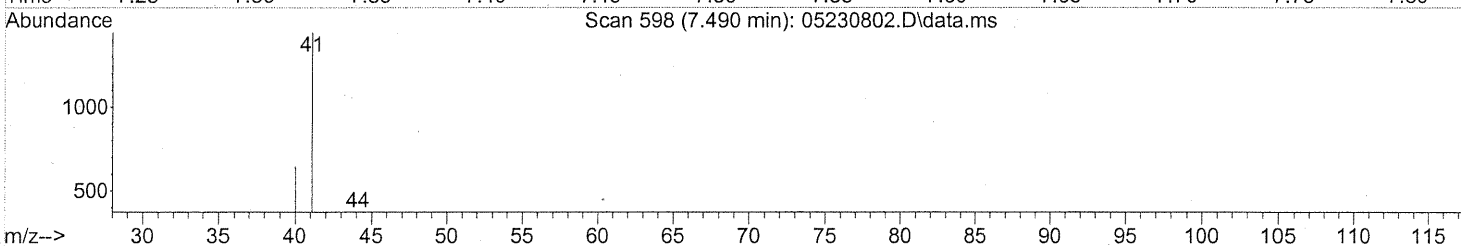
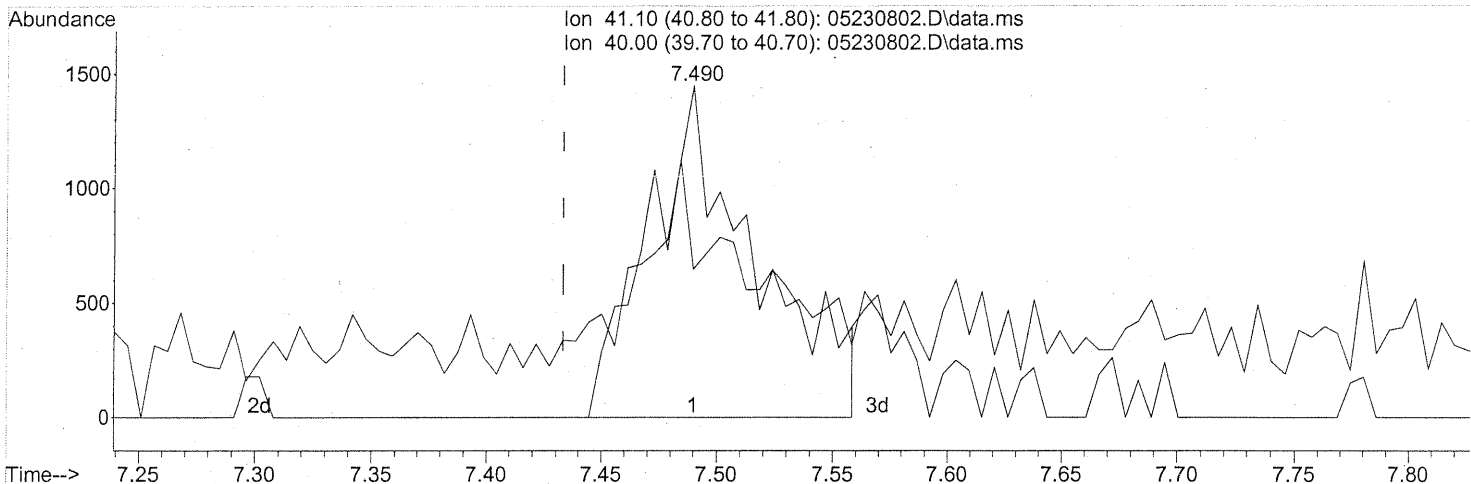
*Integrate peak
 5/30/08*

3/30/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.490min (+0.057) 0.06ng
 response 4649

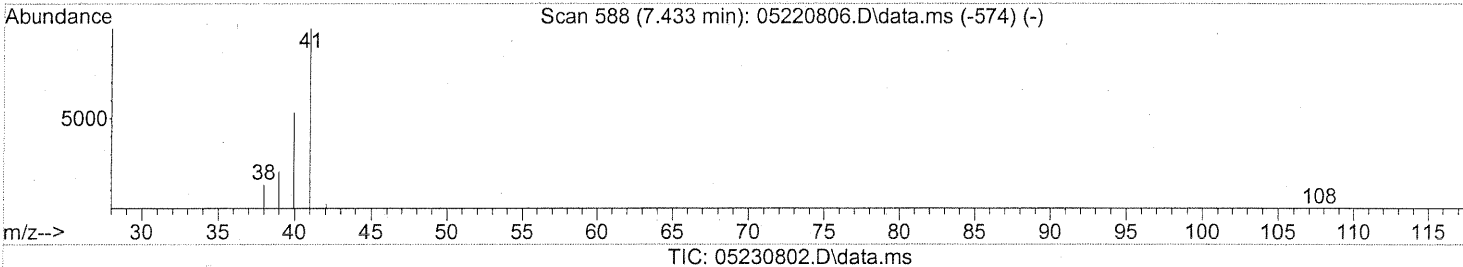
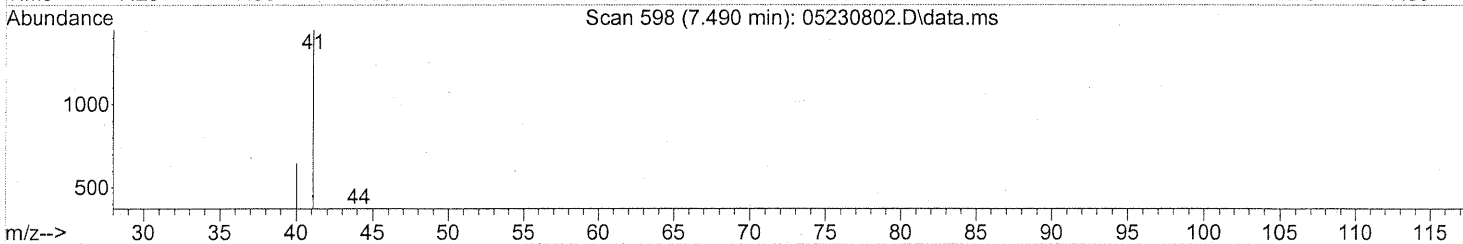
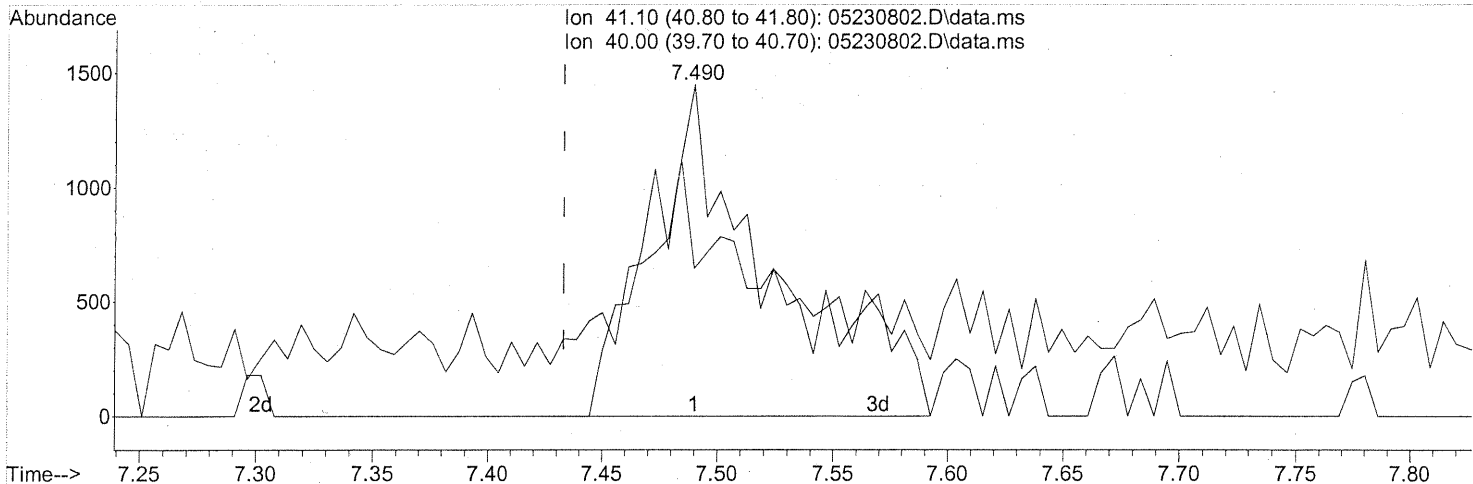
| Ion | Exp% | Act% |
|-------|-------|--------|
| 41.10 | 100 | 100 |
| 40.00 | 51.40 | 72.55# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

failing / split peak

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(11) Acetonitrile (T)
 7.490min (+0.057) 0.07ng m
 response 5300

| Ion | Exp% | Act% |
|-------|-------|-------|
| 41.10 | 100 | 100 |
| 40.00 | 51.40 | 63.64 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Integrate entire peak

MS/30/08

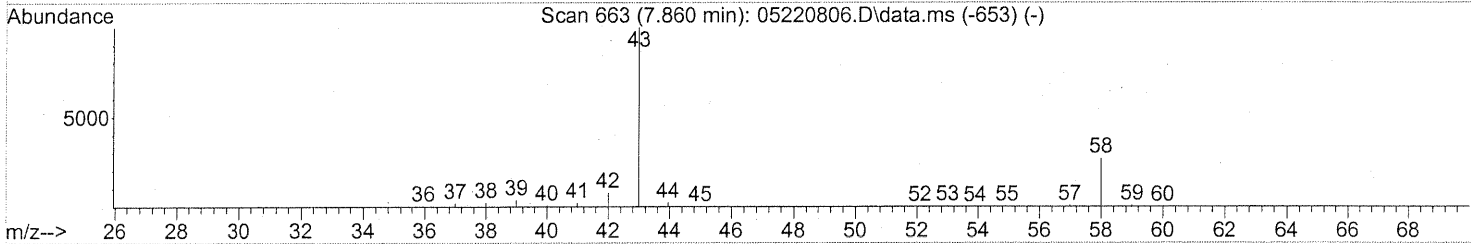
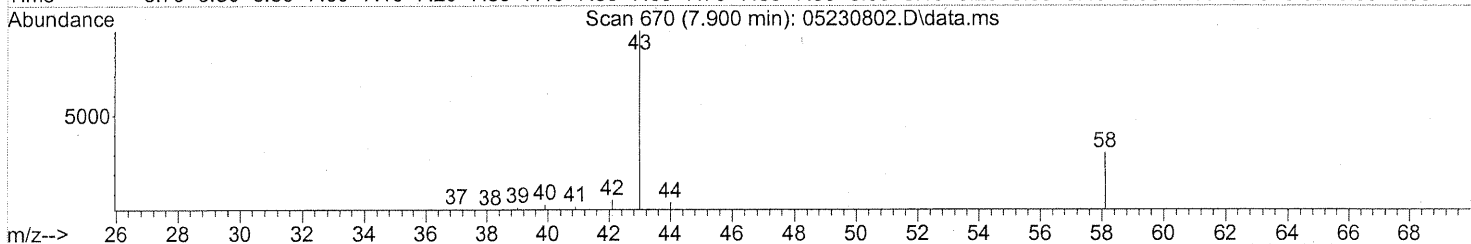
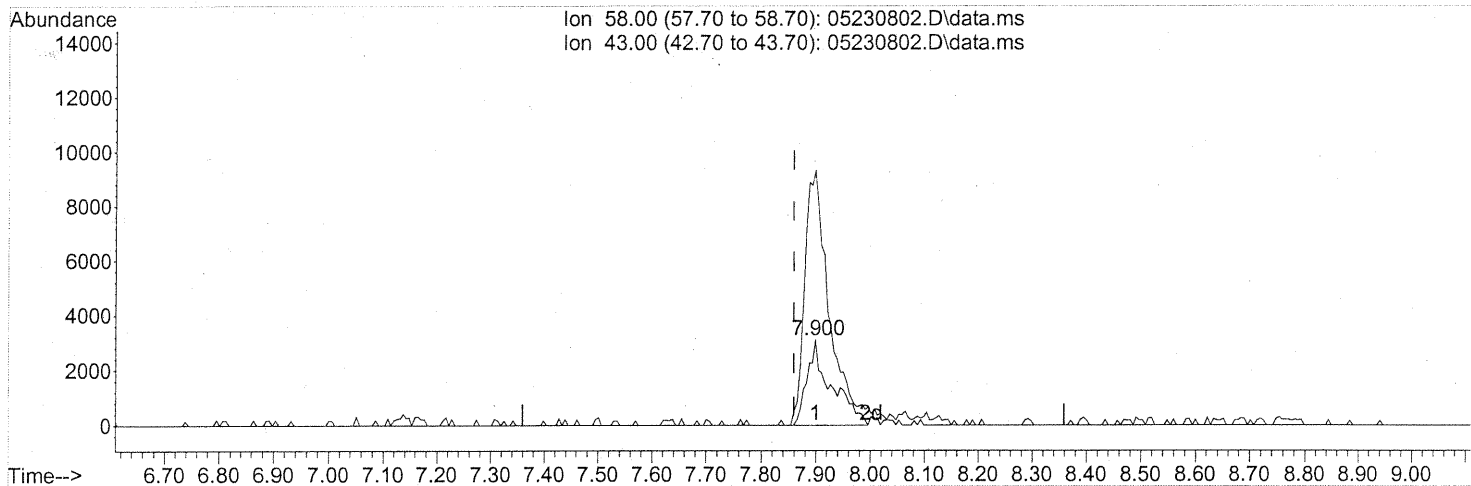
RT 5/30/08

1495

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230802.D\data.ms

(13) Acetone (T)
 7.900min (+0.040) 0.36ng
 response 9715

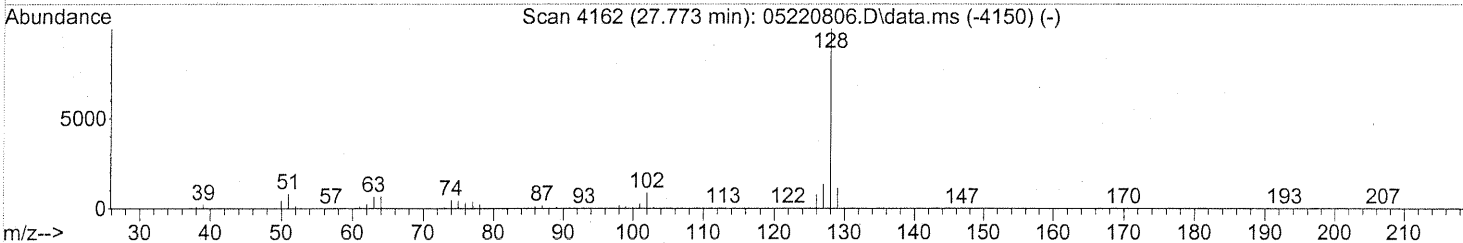
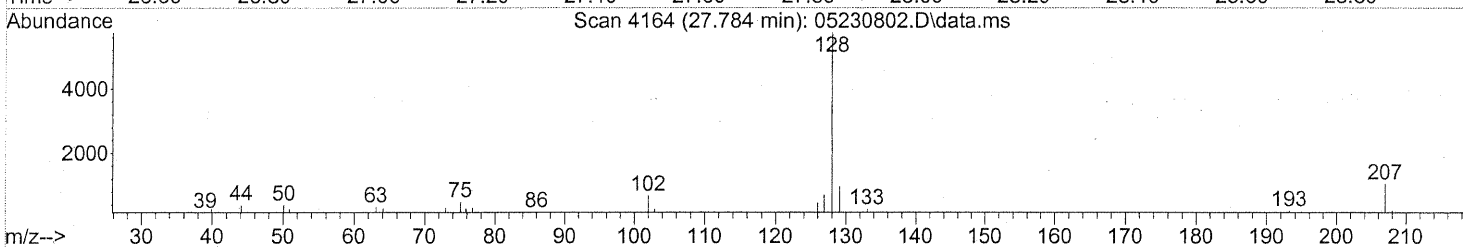
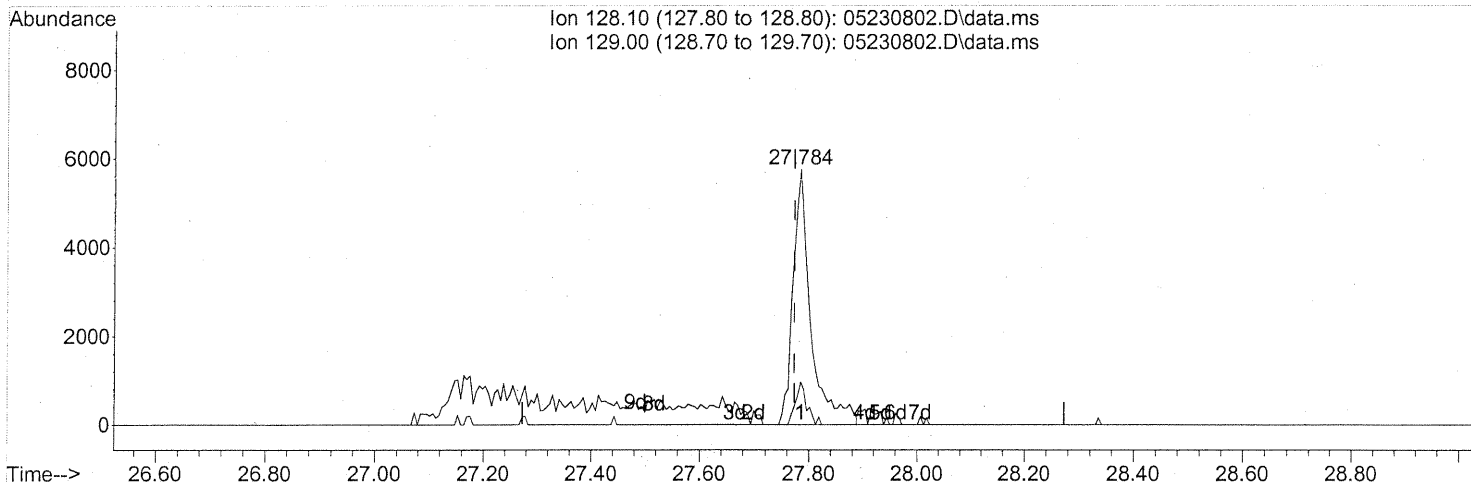
| Ion | Exp% | Act% |
|-------|--------|--------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 311.09 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1496

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:20:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



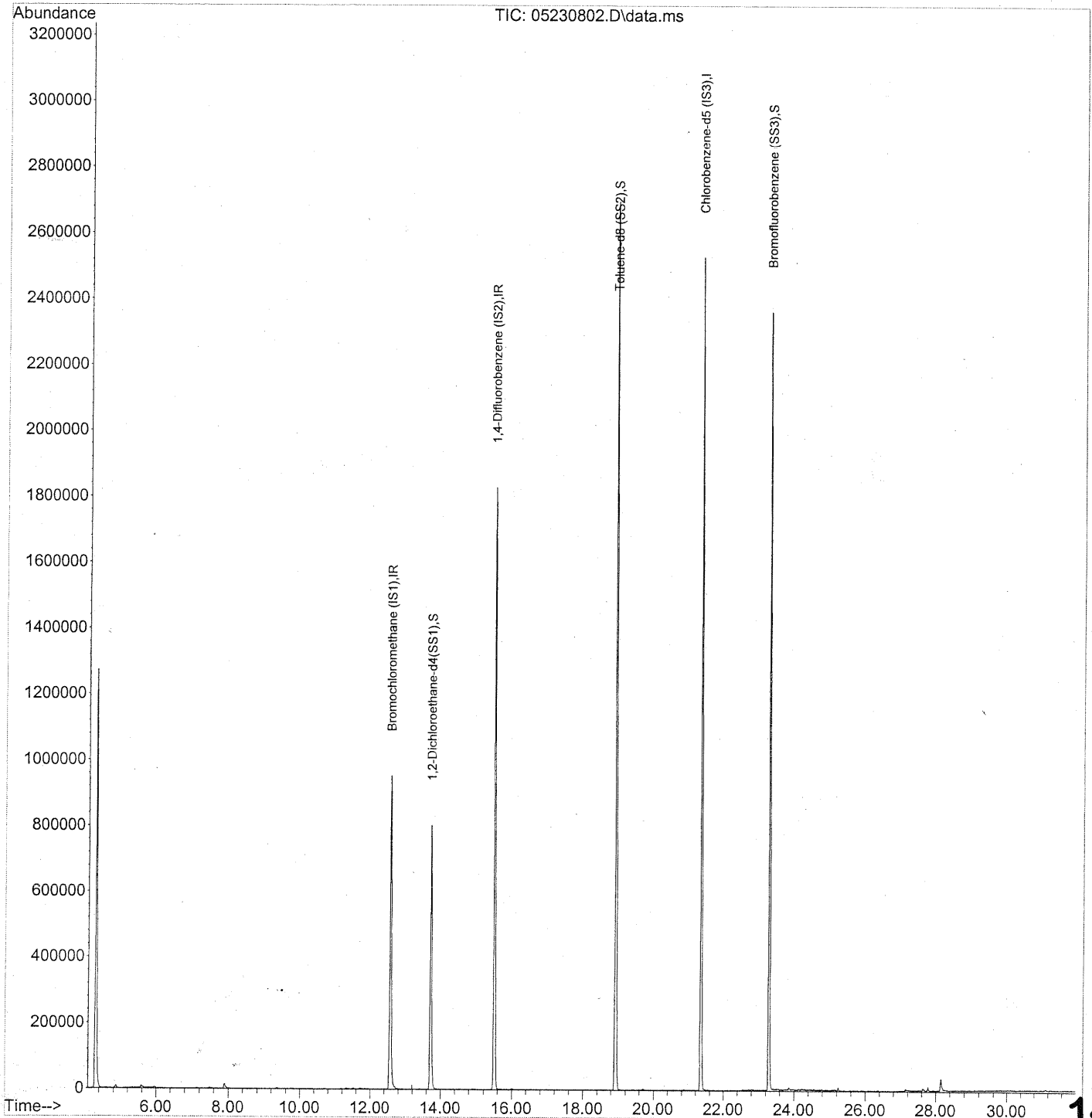
TIC: 05230802.D\data.ms

(95) Naphthalene (T)
 27.784min (+0.011) 0.08ng
 response 13150

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 10.69 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230802.D
Acq On : 23 May 2008 9:08
Operator : RTB
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 12:15:49 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



1498

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230802.D
 Acq On : 23 May 2008 9:08
 Operator : RTB
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 12:15:49 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|---------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 501092 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2131510 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 985961 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 838107 | 24.139 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 96.56% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2219773 | 25.068 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 100.28% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 891867 | 24.768 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.08% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.72 | 119 | 552 | | N.D. | Qvalue |
| 8) n-Butylbenzene | 25.91 | 91 | 1144 | | N.D. | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0801483
 CAS Sample ID: P080526-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | 0.050 | ND | 0.10 | 0.010 | |
| 74-87-3 | Chloromethane | ND | 0.10 | 0.050 | ND | 0.048 | 0.024 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | 0.050 | ND | 0.072 | 0.0072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.10 | 0.050 | ND | 0.039 | 0.020 | |
| 74-83-9 | Bromomethane | ND | 0.10 | 0.050 | ND | 0.026 | 0.013 | |
| 75-00-3 | Chloroethane | ND | 0.10 | 0.050 | ND | 0.038 | 0.019 | |
| 64-17-5 | Ethanol | ND | 5.0 | 0.050 | ND | 2.7 | 0.027 | |
| 67-64-1 | Acetone | 0.33 | 5.0 | 0.073 | 0.14 | 2.1 | 0.031 | J |
| 75-69-4 | Trichlorofluoromethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0089 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | 0.070 | ND | 0.23 | 0.032 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | 0.50 | 0.074 | ND | 0.17 | 0.024 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | 0.050 | ND | 0.14 | 0.014 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.10 | 0.050 | ND | 0.032 | 0.016 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.10 | 0.056 | ND | 0.013 | 0.0073 | |
| 75-15-0 | Carbon Disulfide | ND | 0.50 | 0.12 | ND | 0.16 | 0.039 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.10 | 0.050 | ND | 0.028 | 0.014 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | 0.16 | ND | 1.4 | 0.045 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 0.50 | 0.050 | ND | 0.17 | 0.017 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.50 | 0.059 | ND | 0.12 | 0.014 | |
| 67-66-3 | Chloroform | ND | 0.10 | 0.059 | ND | 0.020 | 0.012 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08 **1500**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result | MRL | MDL | Result | MRL | MDL | Data |
|------------|---------------------------|-------------------|-------------------|-------------------|--------|-------|--------|-----------|
| | | µg/m ³ | µg/m ³ | µg/m ³ | ppbV | ppbV | ppbV | Qualifier |
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.50 | 0.051 | ND | 0.12 | 0.012 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 71-43-2 | Benzene | ND | 0.10 | 0.050 | ND | 0.031 | 0.016 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.10 | 0.050 | ND | 0.016 | 0.0080 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.50 | 0.050 | ND | 0.12 | 0.012 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.10 | 0.050 | ND | 0.022 | 0.011 | |
| 75-27-4 | Bromodichloromethane | ND | 0.10 | 0.050 | ND | 0.015 | 0.0075 | |
| 79-01-6 | Trichloroethene | ND | 0.10 | 0.050 | ND | 0.019 | 0.0093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | 0.061 | ND | 0.14 | 0.017 | |
| 80-62-6 | Methyl Methacrylate | ND | 0.50 | 0.075 | ND | 0.12 | 0.018 | |
| 142-82-5 | n-Heptane | ND | 0.50 | 0.064 | ND | 0.12 | 0.016 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.052 | ND | 0.11 | 0.011 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | 0.056 | ND | 0.12 | 0.014 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.063 | ND | 0.11 | 0.014 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 108-88-3 | Toluene | ND | 0.50 | 0.050 | ND | 0.13 | 0.013 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | 0.076 | ND | 0.12 | 0.019 | |
| 124-48-1 | Dibromochloromethane | ND | 0.10 | 0.068 | ND | 0.012 | 0.0080 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.10 | 0.054 | ND | 0.013 | 0.0070 | |
| 111-65-9 | n-Octane | ND | 0.50 | 0.050 | ND | 0.11 | 0.011 | |
| 127-18-4 | Tetrachloroethene | ND | 0.10 | 0.050 | ND | 0.015 | 0.0074 | |
| 108-90-7 | Chlorobenzene | ND | 0.10 | 0.051 | ND | 0.022 | 0.011 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

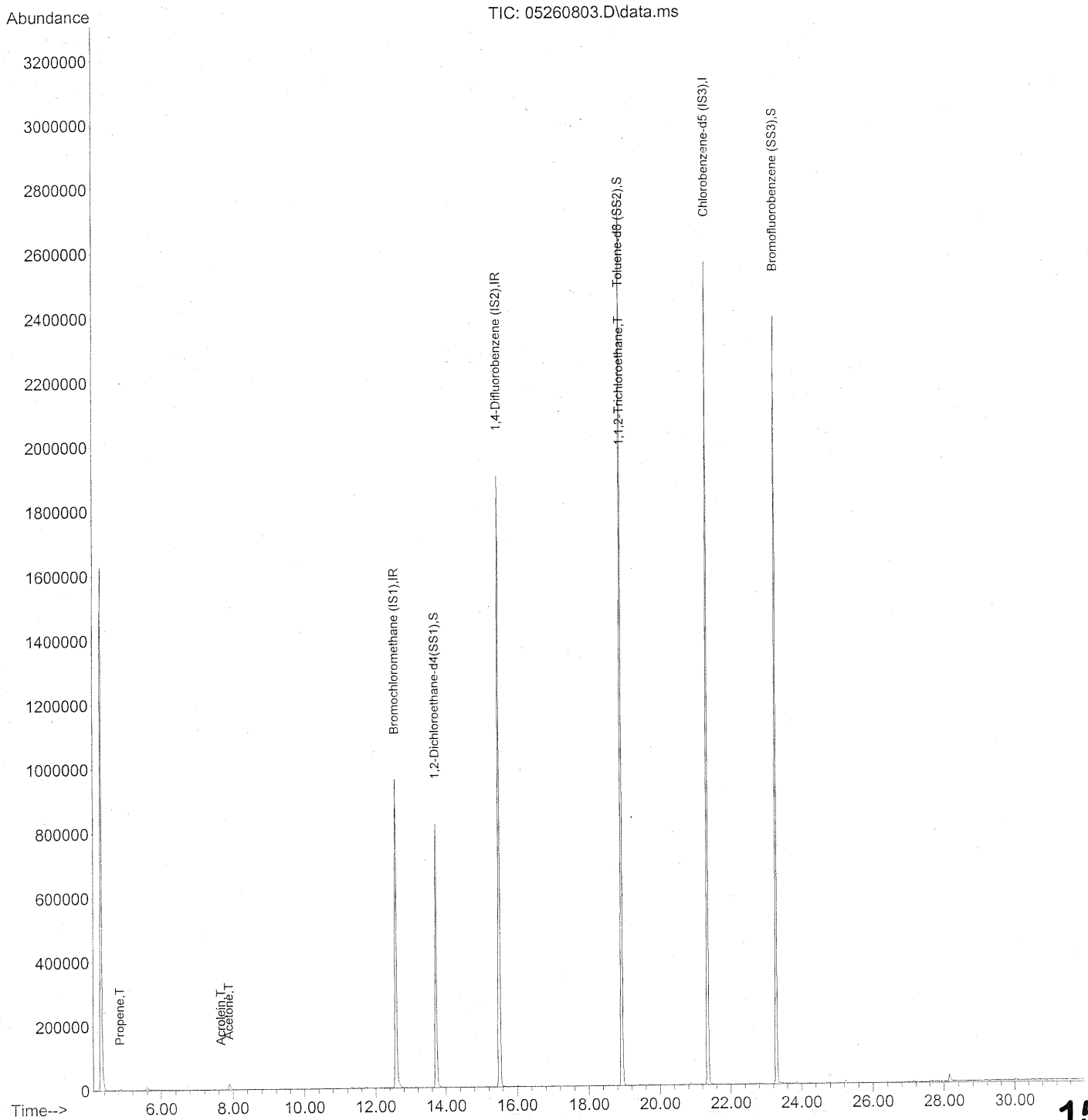
| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.062 | ND | 0.12 | 0.014 | |
| 179601-23-1 | m,p-Xylenes | ND | 0.50 | 0.13 | ND | 0.12 | 0.030 | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.076 | ND | 0.048 | 0.0074 | |
| 100-42-5 | Styrene | ND | 0.50 | 0.076 | ND | 0.12 | 0.018 | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.063 | ND | 0.12 | 0.015 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.064 | ND | 0.015 | 0.0093 | |
| 98-82-8 | Cumene | ND | 0.50 | 0.056 | ND | 0.10 | 0.011 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.052 | ND | 0.10 | 0.011 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | 0.057 | ND | 0.10 | 0.012 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.060 | ND | 0.10 | 0.012 | |
| 98-83-9 | alpha-Methylstyrene | ND | 0.50 | 0.073 | ND | 0.10 | 0.015 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.069 | ND | 0.10 | 0.014 | |
| 100-44-7 | Benzyl Chloride | ND | 0.10 | 0.086 | ND | 0.019 | 0.017 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.10 | 0.062 | ND | 0.017 | 0.010 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.10 | 0.056 | ND | 0.017 | 0.0093 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.058 | ND | 0.091 | 0.011 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | ND | 0.50 | 0.065 | ND | 0.091 | 0.012 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.10 | 0.066 | ND | 0.017 | 0.011 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.076 | ND | 0.052 | 0.0079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.076 | ND | 0.013 | 0.010 | |
| 91-20-3 | Naphthalene | ND | 0.20 | 0.074 | ND | 0.038 | 0.014 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.10 | 0.090 | ND | 0.0094 | 0.0084 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |
| 104-51-8 | n-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 10:50
Operator : WA
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 06:12:55 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260803.D
 Acq On : 26 May 2008 10:50
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 06:12:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 514960 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2207660 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 999894 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|-------|------|----------|--------------------|-------|-----------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 841415 | 23.581 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = 94.32% | | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2307105 | 25.691 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = 102.76% | | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 916400 | 25.095 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = 100.40% | | |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|------------------|-------|--------|
| 2) Propene | 4.86 | 42 | 2083 | 0.051 | ng | # 59 |
| 3) Dichlorodifluoromethane | 0.00 | 85 | 0 | N.D. | | |
| 4) Chloromethane | 0.00 | 50 | 0 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 6.55 | 94 | 117 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.15 | 45 | 983 | N.D. | | |
| 11) Acetonitrile | 7.51 | 41 | 1917 | N.D. | | |
| 12) Acrolein | 7.67 | 56 | 1124 | 0.058 | ng | # 15 |
| 13) Acetone | 7.89 | 58 | 9062 | <u>0.327</u> | ng | # 41 |
| 14) Trichlorofluoromethane | 0.00 | 101 | 0 | N.D. | | |
| 15) Isopropanol | 8.42 | 45 | 123 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.37 | 59 | 305 | N.D. | | |
| 19) Methylene Chloride | 9.37 | 84 | 1038 | N.D. | | |
| 20) Allyl Chloride | 0.00 | 41 | 0 | N.D. | | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | | |
| 22) Carbon Disulfide | 9.77 | 76 | 1108 | N.D. | | |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 26) Vinyl Acetate | 11.33 | 86 | 137 | N.D. | | |
| 27) 2-Butanone | 11.69 | 72 | 65 | N.D. | | |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 0.00 | 57 | 0 | N.D. | | |

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260803.D
 Acq On : 26 May 2008 10:50
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 06:12:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------------------|-------|----------|
| 32) Chloroform | 0.00 | 83 | 0 | | N.D. | |
| 34) Tetrahydrofuran | 0.00 | 72 | 0 | | N.D. | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | | N.D. | |
| 36) 1,2-Dichloroethane | 13.73 | 62 | 505 | | N.D. | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | | N.D. | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | | N.D. | |
| 40) 1-Butanol | 14.92 | 56 | 358 | | N.D. | |
| 41) Benzene | 14.98 | 78 | 953 | | N.D. | |
| 42) Carbon Tetrachloride | 0.00 | 117 | 0 | | N.D. | |
| 43) Cyclohexane | 15.50 | 84 | 1579 | | N.D. | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | | N.D. | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | | N.D. | |
| 46) Bromodichloromethane | 0.00 | 83 | 0 | | N.D. | |
| 47) Trichloroethene | 0.00 | 130 | 0 | | N.D. | |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | | N.D. | |
| 49) Isooctane | 16.61 | 57 | 208 | | N.D. | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | | N.D. | |
| 51) n-Heptane | 0.00 | 71 | 0 | | N.D. | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | | N.D. | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | | N.D. | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | | N.D. | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 200313 | 7.013 ng | NR# | 7 |
| 58) Toluene | 19.07 | 91 | 185 | | N.D. | |
| 59) 2-Hexanone | 19.40 | 43 | 688 | | N.D. | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | | N.D. | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | | N.D. | |
| 62) Butyl Acetate | 20.37 | 43 | 55 | | N.D. | |
| 63) n-Octane | 0.00 | 57 | 0 | | N.D. | |
| 64) Tetrachloroethene | 0.00 | 166 | 0 | | N.D. | |
| 65) Chlorobenzene | 21.41 | 112 | 59 | | N.D. | |
| 66) Ethylbenzene | 21.89 | 91 | 177 | | N.D. | |
| 67) m- & p-Xylene | 22.10 | 91 | 128 | | N.D. | |
| 68) Bromoform | 0.00 | 173 | 0 | | N.D. | |
| 69) Styrene | 22.60 | 104 | 201 | | N.D. | |
| 70) o-Xylene | 22.72 | 91 | 425 | | N.D. | |
| 71) n-Nonane | 22.97 | 43 | 73 | | N.D. | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | | N.D. | |
| 74) Cumene | 23.46 | 105 | 171 | | N.D. | |
| 75) alpha-Pinene | 24.32 | 93 | 59 | | N.D. | |
| 76) n-Propylbenzene | 24.10 | 91 | 101 | | N.D. | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 1192 | | N.D. | |
| 78) 4-Ethyltoluene | 24.27 | 105 | 420 | | N.D. | |
| 79) 1,3,5-Trimethylbenzene | 24.36 | 105 | 779 | | N.D. | |

1505

DA 5/28/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260803.D
 Acq On : 26 May 2008 10:50
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 06:12:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

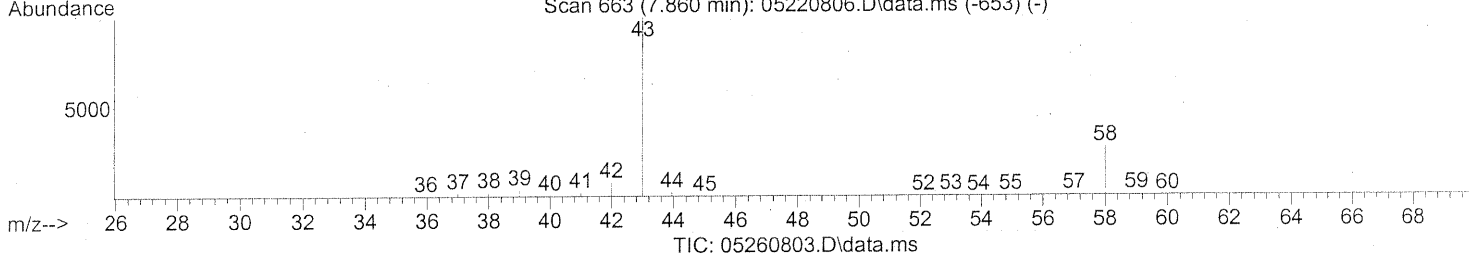
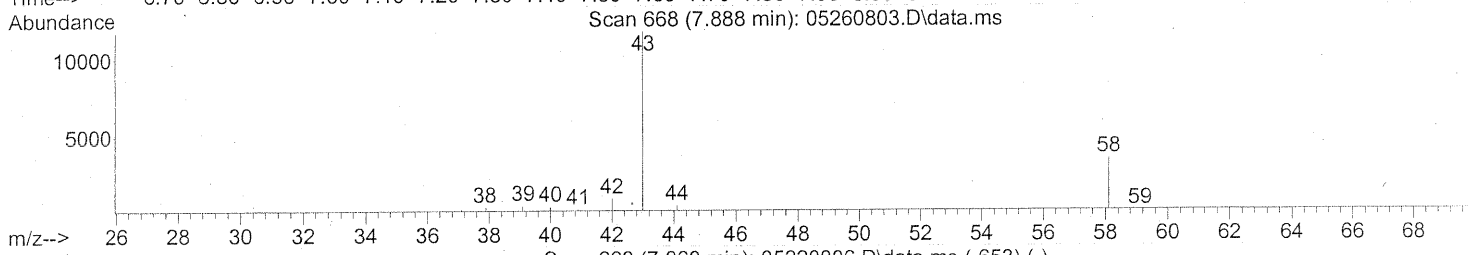
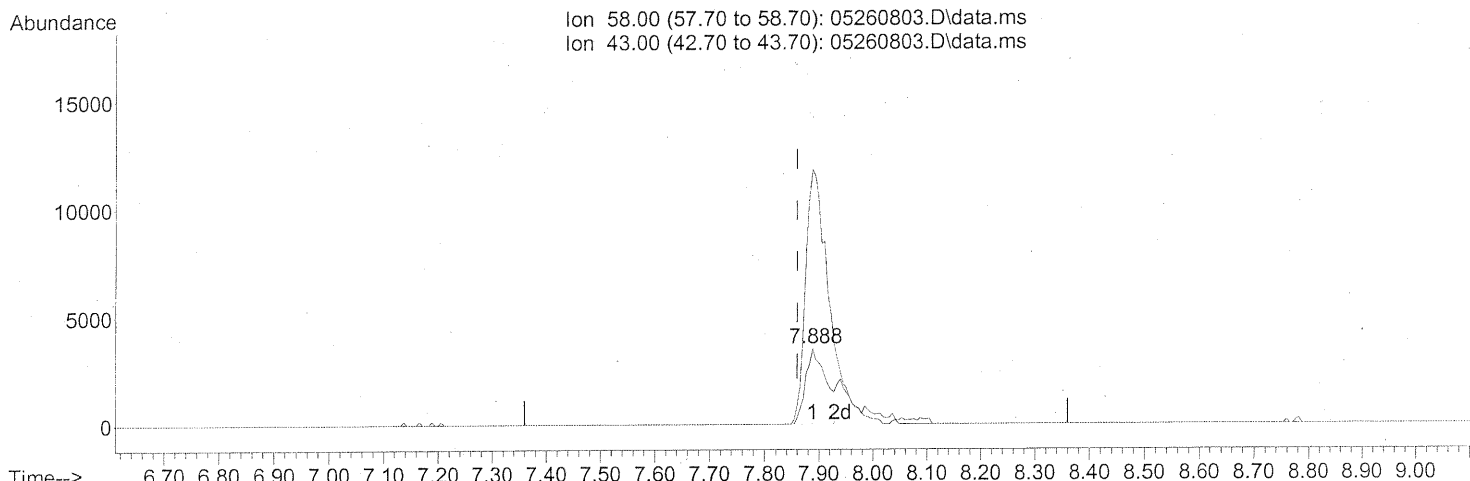
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|------|-------|----------|
| 80) alpha-Methylstyrene | 0.00 | 118 | 0 | | N.D. | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 1007 | | N.D. | |
| 82) 1,2,4-Trimethylbenzene | 24.87 | 105 | 643 | | N.D. | |
| 83) n-Decane | 25.14 | 57 | 75 | | N.D. | |
| 84) Benzyl Chloride | 25.06 | 91 | 836 | | N.D. | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 293 | | N.D. | |
| 86) 1,4-Dichlorobenzene | 25.17 | 146 | 801 | | N.D. | |
| 87) sec-Butylbenzene | 25.22 | 105 | 56 | | N.D. | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 115 | | N.D. | |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 277 | | N.D. | |
| 90) 1,2-Dichlorobenzene | 25.59 | 146 | 65 | | N.D. | |
| 91) d-Limonene | 0.00 | 68 | 0 | | N.D. | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | | N.D. | |
| 93) n-Undecane | 26.50 | 57 | 166 | | N.D. | |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 730 | | N.D. | |
| 95) Naphthalene | 27.80 | 128 | 4329 | | N.D. | |
| 96) n-Dodecane | 27.73 | 57 | 52 | | N.D. | |
| 97) Hexachloro-1,3-butadiene | 27.98 | 225 | 64 | | N.D. | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/28/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260803.D
 Acq On : 26 May 2008 10:50
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 06:12:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)

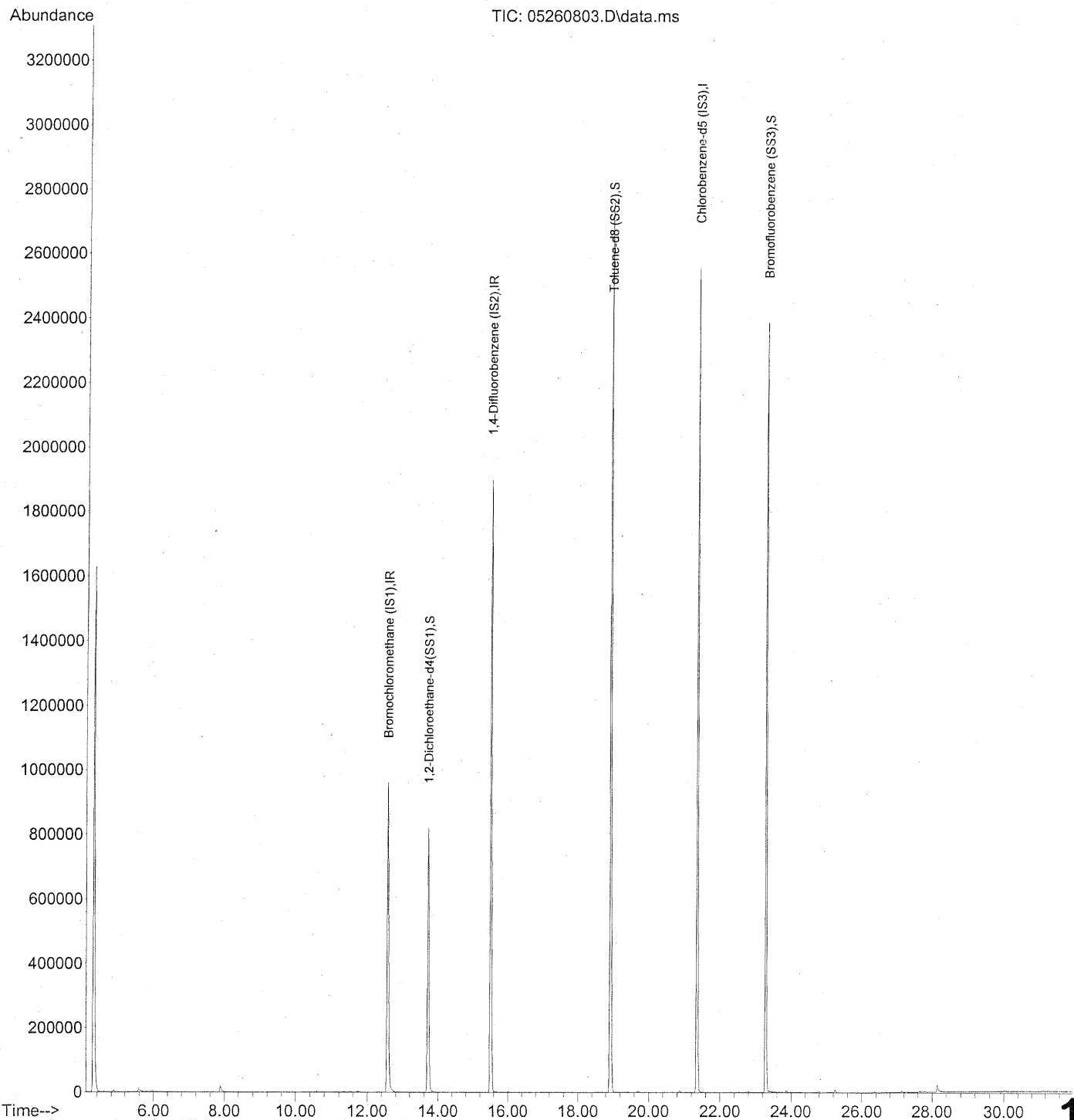
7.888min (+0.028) 0.33ng

response 9062

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 394.25# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 10:50 am
Operator : WA
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:02:05 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



1508

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260803.D
 Acq On : 26 May 2008 10:50 am
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:02:05 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|---------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 514960 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2207660 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 999894 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 841415 | 23.581 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 94.32% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2307105 | 25.691 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 102.76% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 916400 | 25.095 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.40% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.80 | 119 | 63 | N.D. | | Qvalue |
| 8) n-Butylbenzene | 25.92 | 91 | 75 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | 0.050 | ND | 0.10 | 0.010 | |
| 74-87-3 | Chloromethane | ND | 0.10 | 0.050 | ND | 0.048 | 0.024 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | 0.050 | ND | 0.072 | 0.0072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.10 | 0.050 | ND | 0.039 | 0.020 | |
| 74-83-9 | Bromomethane | ND | 0.10 | 0.050 | ND | 0.026 | 0.013 | |
| 75-00-3 | Chloroethane | ND | 0.10 | 0.050 | ND | 0.038 | 0.019 | |
| 64-17-5 | Ethanol | 1.0 | 5.0 | 0.050 | 0.55 | 2.7 | 0.027 | J |
| 67-64-1 | Acetone | 1.8 | 5.0 | 0.073 | 0.74 | 2.1 | 0.031 | J |
| 75-69-4 | Trichlorofluoromethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0089 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | 0.070 | ND | 0.23 | 0.032 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | 0.50 | 0.074 | ND | 0.17 | 0.024 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | 0.050 | ND | 0.14 | 0.014 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.10 | 0.050 | ND | 0.032 | 0.016 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.10 | 0.056 | ND | 0.013 | 0.0073 | |
| 75-15-0 | Carbon Disulfide | 0.29 | 0.50 | 0.12 | 0.093 | 0.16 | 0.039 | J |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.10 | 0.050 | ND | 0.028 | 0.014 | |
| 108-05-4 | Vinyl Acetate | 0.40 | 5.0 | 0.16 | 0.11 | 1.4 | 0.045 | J |
| 78-93-3 | 2-Butanone (MEK) | 0.35 | 0.50 | 0.050 | 0.12 | 0.17 | 0.017 | J |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.50 | 0.059 | ND | 0.12 | 0.014 | |
| 67-66-3 | Chloroform | 0.095 | 0.10 | 0.059 | 0.019 | 0.020 | 0.012 | J |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.50 | 0.051 | ND | 0.12 | 0.012 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 71-43-2 | Benzene | ND | 0.10 | 0.050 | ND | 0.031 | 0.016 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.10 | 0.050 | ND | 0.016 | 0.0080 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.50 | 0.050 | ND | 0.12 | 0.012 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.10 | 0.050 | ND | 0.022 | 0.011 | |
| 75-27-4 | Bromodichloromethane | ND | 0.10 | 0.050 | ND | 0.015 | 0.0075 | |
| 79-01-6 | Trichloroethene | ND | 0.10 | 0.050 | ND | 0.019 | 0.0093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | 0.061 | ND | 0.14 | 0.017 | |
| 80-62-6 | Methyl Methacrylate | ND | 0.50 | 0.075 | ND | 0.12 | 0.018 | |
| 142-82-5 | n-Heptane | ND | 0.50 | 0.064 | ND | 0.12 | 0.016 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.052 | ND | 0.11 | 0.011 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | 0.056 | ND | 0.12 | 0.014 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.063 | ND | 0.11 | 0.014 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 108-88-3 | Toluene | ND | 0.50 | 0.050 | ND | 0.13 | 0.013 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | 0.076 | ND | 0.12 | 0.019 | |
| 124-48-1 | Dibromochloromethane | ND | 0.10 | 0.068 | ND | 0.012 | 0.0080 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.10 | 0.054 | ND | 0.013 | 0.0070 | |
| 111-65-9 | n-Octane | ND | 0.50 | 0.050 | ND | 0.11 | 0.011 | |
| 127-18-4 | Tetrachloroethene | ND | 0.10 | 0.050 | ND | 0.015 | 0.0074 | |
| 108-90-7 | Chlorobenzene | ND | 0.10 | 0.051 | ND | 0.022 | 0.011 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08 **1511**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.062 | ND | 0.12 | 0.014 | |
| 179601-23-1 | m,p-Xylenes | ND | 0.50 | 0.13 | ND | 0.12 | 0.030 | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.076 | ND | 0.048 | 0.0074 | |
| 100-42-5 | Styrene | ND | 0.50 | 0.076 | ND | 0.12 | 0.018 | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.063 | ND | 0.12 | 0.015 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.064 | ND | 0.015 | 0.0093 | |
| 98-82-8 | Cumene | ND | 0.50 | 0.056 | ND | 0.10 | 0.011 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.052 | ND | 0.10 | 0.011 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | 0.057 | ND | 0.10 | 0.012 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.060 | ND | 0.10 | 0.012 | |
| 98-83-9 | alpha-Methylstyrene | ND | 0.50 | 0.073 | ND | 0.10 | 0.015 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.069 | ND | 0.10 | 0.014 | |
| 100-44-7 | Benzyl Chloride | ND | 0.10 | 0.086 | ND | 0.019 | 0.017 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.10 | 0.062 | ND | 0.017 | 0.010 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.10 | 0.056 | ND | 0.017 | 0.0093 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.058 | ND | 0.091 | 0.011 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | ND | 0.50 | 0.065 | ND | 0.091 | 0.012 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.10 | 0.066 | ND | 0.017 | 0.011 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.076 | ND | 0.052 | 0.0079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.076 | ND | 0.013 | 0.010 | |
| 91-20-3 | Naphthalene | ND | 0.20 | 0.074 | ND | 0.038 | 0.014 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.10 | 0.090 | ND | 0.0094 | 0.0084 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |
| 104-51-8 | n-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |

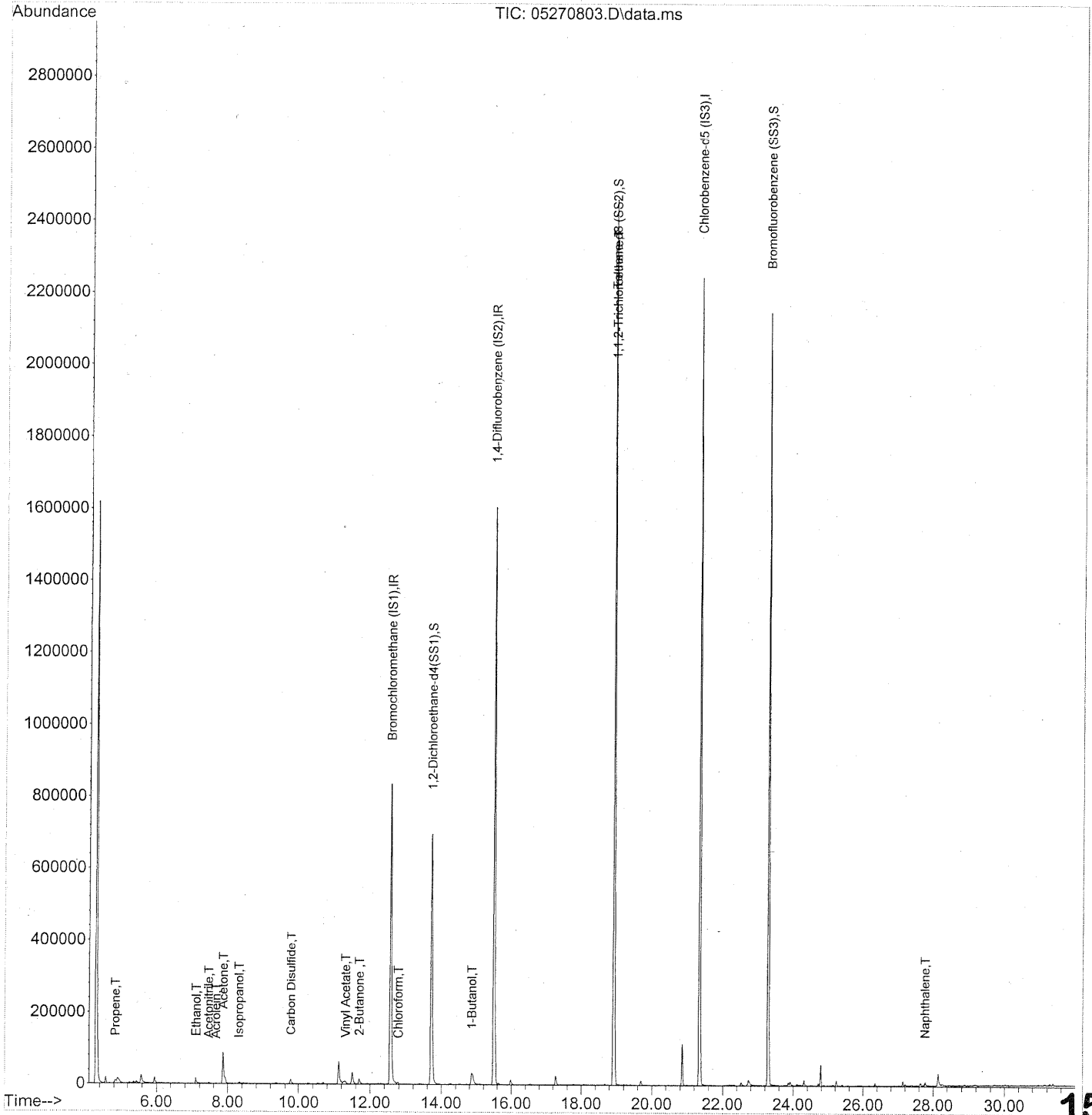
ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: CA Date: 6/4/08 **1512**

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 9:41
Operator : WA
Sample : CAS CAN QC Batch# 1151 (1.0L)
Misc : as MB (SC00641)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:22:08 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1513

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:22:08 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 436763 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1861684 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 860403 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 722789 | 23.883 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 95.52% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1989013 | 25.740 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.96% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 798839 | 25.422 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.68% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------|-------|--------|
| 2) Propene | 4.84 | 42 | 4148 | 0.120 | ng | # 73 |
| 3) Dichlorodifluoromethane | 4.99 | 85 | 352 | N.D. | | |
| 4) Chloromethane | 0.00 | 50 | 0 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 6.52 | 94 | 103 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.11 | 45 | 23808m | 1.037 | ng | J' |
| 11) Acetonitrile | 7.46 | 41 | 4167 | 0.063 | ng | 87 |
| 12) Acrolein | 7.67 | 56 | 2615 | 0.159 | ng | 86 |
| 13) Acetone | 7.87 | 58 | 41565 | 1.768 | ng | J# 42 |
| 14) Trichlorofluoromethane | 0.00 | 101 | 0 | N.D. | | |
| 15) Isopropanol | 8.32 | 45 | 14965m | 0.200 | ng | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.28 | 59 | 390 | N.D. | | |
| 19) Methylene Chloride | 9.37 | 84 | 959 | N.D. | | |
| 20) Allyl Chloride | 9.50 | 41 | 52 | N.D. | | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | | |
| 22) Carbon Disulfide | 9.78 | 76 | 28729 | 0.288 | ng | J' 99 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 11.22 | 73 | 86 | N.D. | | |
| 26) Vinyl Acetate | 11.32 | 86 | 1719 | 0.396 | ng | J# 43 |
| 27) 2-Butanone | 11.70 | 72 | 6028 | 0.351 | ng | J' 96 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.77 | 87 | 143 | N.D. | | |
| 30) Ethyl Acetate | 12.72 | 61 | 61 | N.D. | | |
| 31) n-Hexane | 12.70 | 57 | 215 | N.D. | | |

1514

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:22:08 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev (Min) |
|-------------------------------|-------|------|----------|------------|-----------|
| 32) Chloroform | 12.78 | 83 | 3774 | 0.095 ng | 97 |
| 34) Tetrahydrofuran | 13.40 | 72 | 201 | N.D. | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | |
| 36) 1,2-Dichloroethane | 13.71 | 62 | 420 | N.D. | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | |
| 40) 1-Butanol | 14.87 | 56 | 41394 | 1.618 ng | 89 |
| 41) Benzene | 14.97 | 78 | 1357 | N.D. | |
| 42) Carbon Tetrachloride | 15.18 | 117 | 55 | N.D. | |
| 43) Cyclohexane | 15.49 | 84 | 584 | N.D. | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | |
| 46) Bromodichloromethane | 0.00 | 83 | 0 | N.D. | |
| 47) Trichloroethene | 16.54 | 130 | 624 | N.D. | |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | |
| 49) Isooctane | 16.61 | 57 | 1049 | N.D. | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | |
| 53) 4-Methyl-2-pentanone | 17.80 | 58 | 701 | N.D. | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | |
| 55) 1,1,2-Trichloroethane | 18.93 | 97 | 176264 | 7.317 ng | 7 |
| 58) Toluene | 19.06 | 91 | 2713 | N.D. | |
| 59) 2-Hexanone | 19.38 | 43 | 2054 | N.D. | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | |
| 62) Butyl Acetate | 20.22 | 43 | 974 | N.D. | |
| 63) n-Octane | 20.36 | 57 | 54 | N.D. | |
| 64) Tetrachloroethene | 20.85 | 166 | 54 | N.D. | |
| 65) Chlorobenzene | 21.39 | 112 | 129 | N.D. | |
| 66) Ethylbenzene | 21.89 | 91 | 513 | N.D. | |
| 67) m- & p-Xylene | 22.10 | 91 | 1263 | N.D. | |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | |
| 69) Styrene | 22.57 | 104 | 376 | N.D. | |
| 70) o-Xylene | 22.73 | 91 | 1089 | N.D. | |
| 71) n-Nonane | 22.97 | 43 | 481 | N.D. | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | N.D. | |
| 74) Cumene | 23.49 | 105 | 186 | N.D. | |
| 75) alpha-Pinene | 23.96 | 93 | 241 | N.D. | |
| 76) n-Propylbenzene | 24.11 | 91 | 448 | N.D. | |
| 77) 3-Ethyltoluene | 24.22 | 105 | 785 | N.D. | |
| 78) 4-Ethyltoluene | 24.29 | 105 | 2035 | N.D. | |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 649 | N.D. | |

1515

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:22:08 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

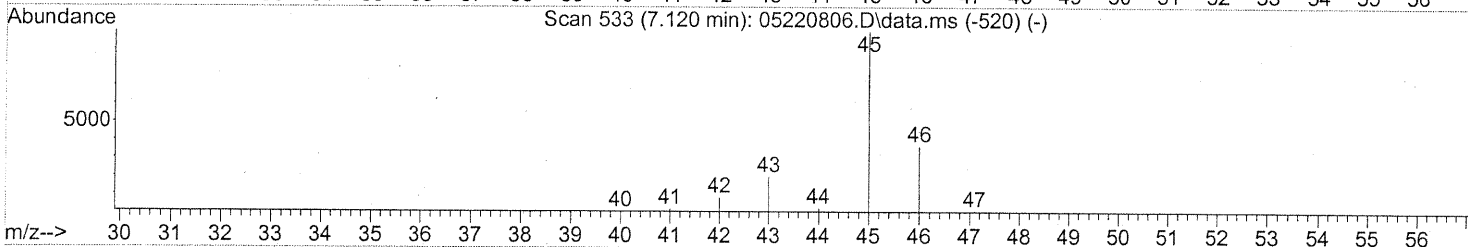
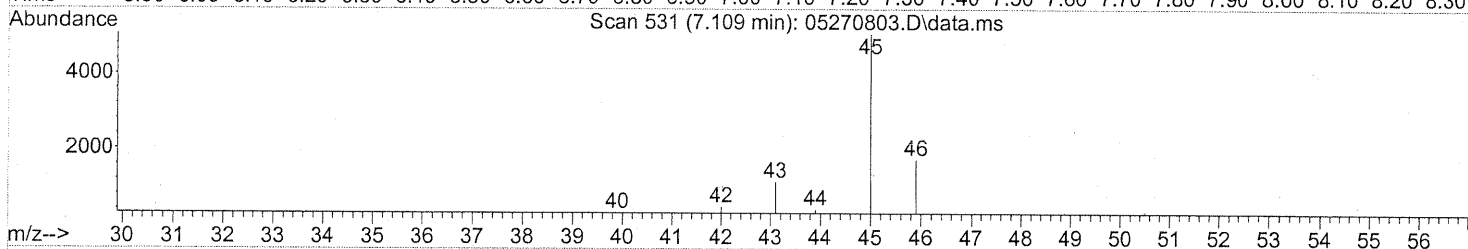
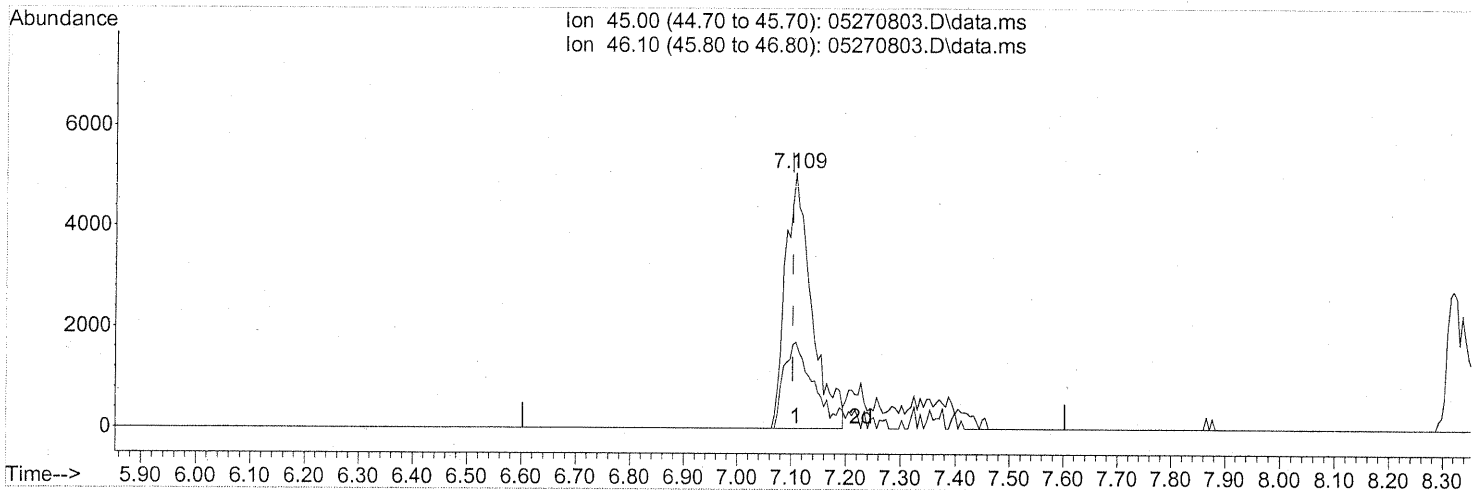
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|----------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 55 | N.D. | | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 348 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 645 | N.D. | | |
| 83) n-Decane | 24.98 | 57 | 577 | N.D. | | |
| 84) Benzyl Chloride | 25.06 | 91 | 1130 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1046 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1432 | N.D. | | |
| 87) sec-Butylbenzene | 25.22 | 105 | 57 | N.D. | | |
| 88) p-Isopropyltoluene | 25.41 | 119 | 1802 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 468 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.56 | 146 | 237 | N.D. | | |
| 91) d-Limonene | 25.58 | 68 | 241 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.49 | 57 | 422 | N.D. | | |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1340 | N.D. | | |
| 95) Naphthalene | 27.78 | 128 | 9048 | 0.065 ng | | 94 |
| 96) n-Dodecane | 27.73 | 57 | 299 | N.D. | | |
| 97) Hexachloro-1,3-butadiene | 0.00 | 225 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 10:35:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270803.D\data.ms

(10) Ethanol (T)
 7.109min (+0.006) 0.74ng
 response 16920

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.06 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

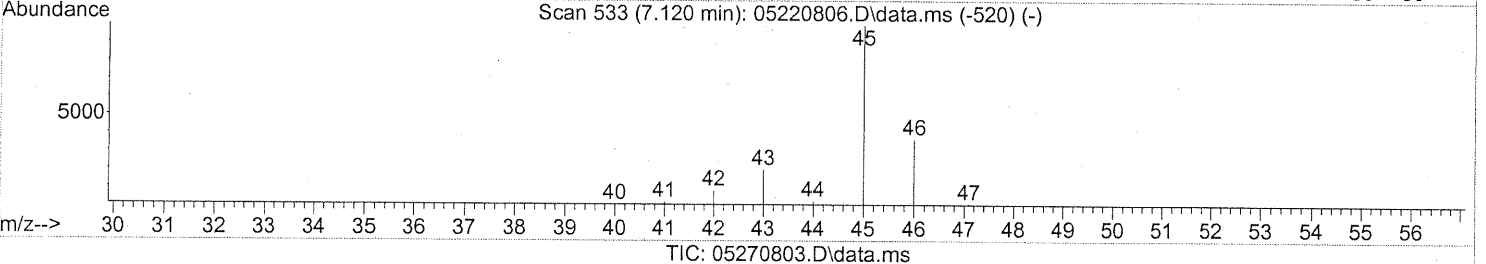
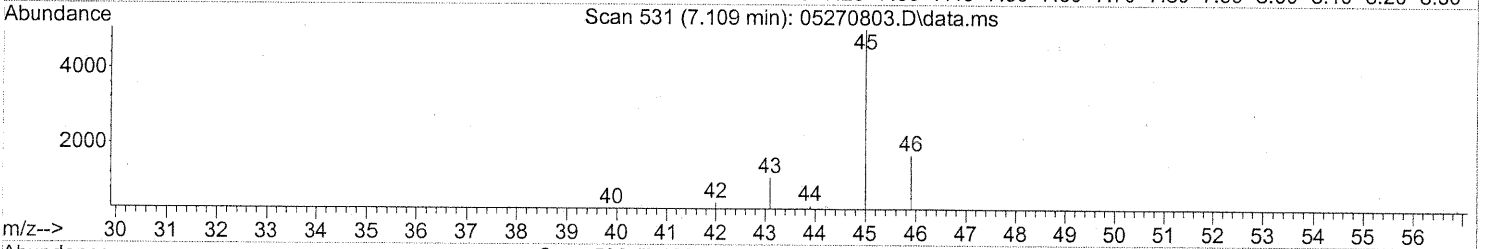
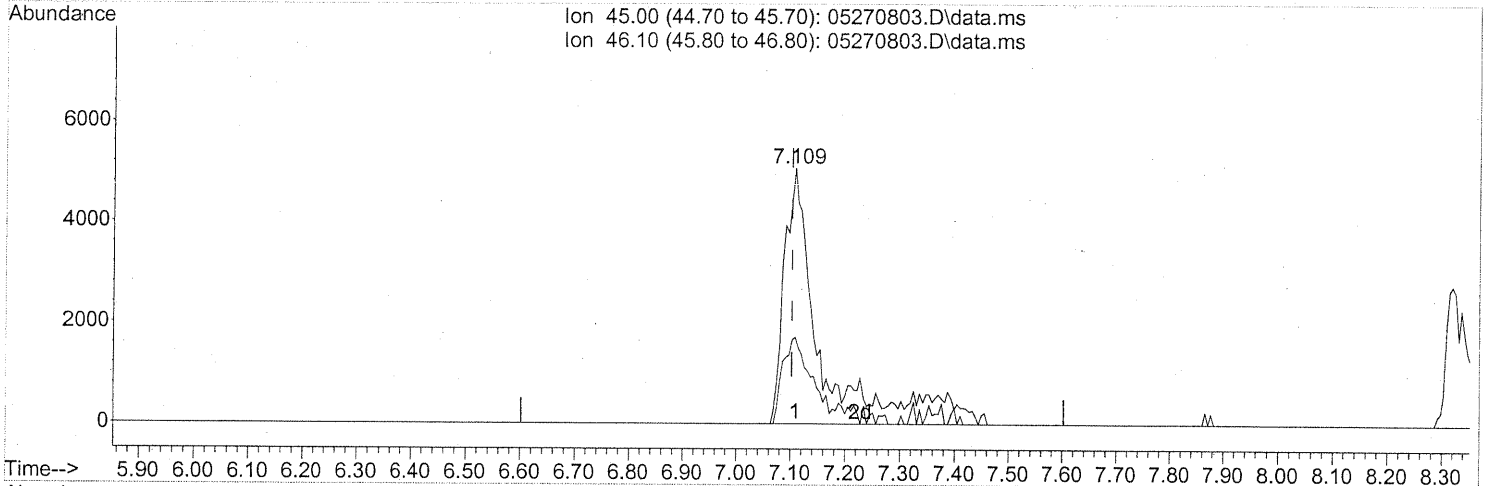
tailing

1517

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 10:35:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.109min (+0.006) 1.04ng m

response 23808

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 26.34 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

incl. tailing

ROI 5181/08

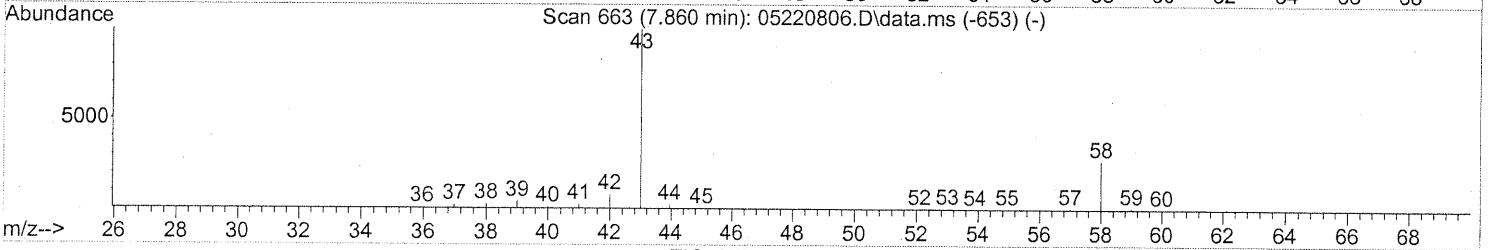
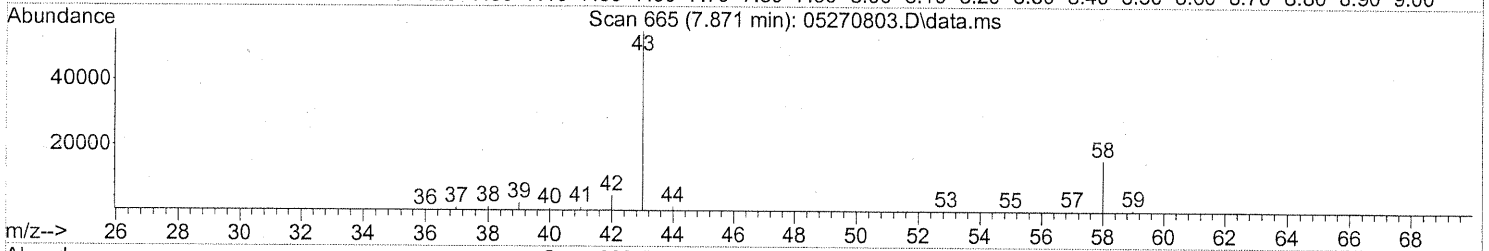
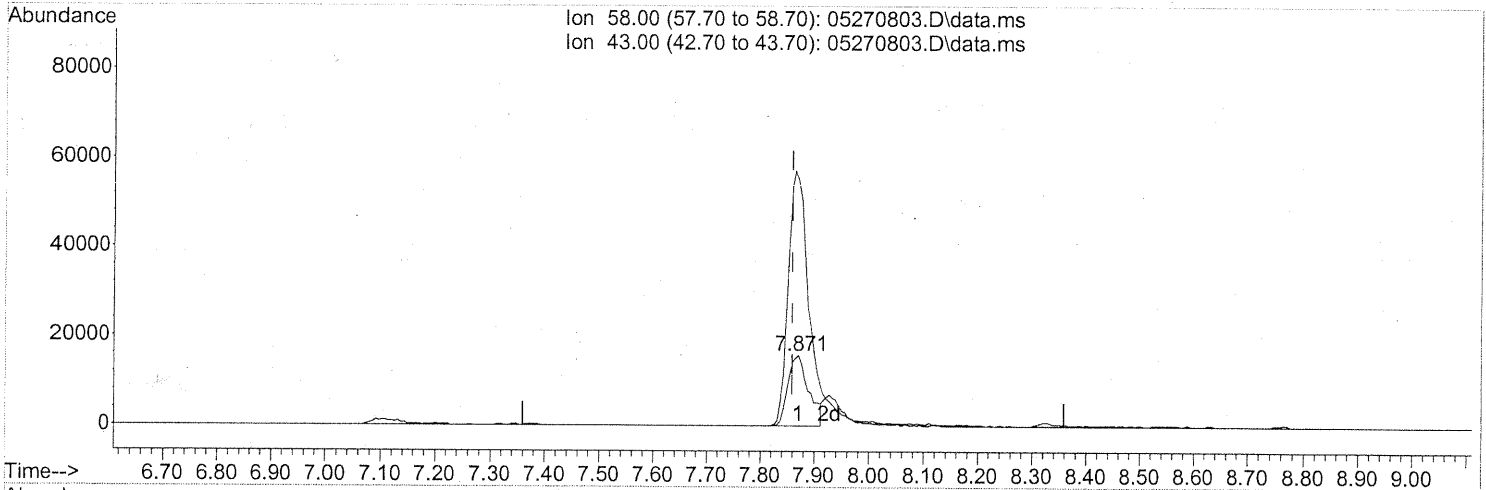
7/06/02/08

1518

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 10:35:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270803.D\data.ms

(13) Acetone (T)

7.871min (+0.011) 1.77ng

response 41565

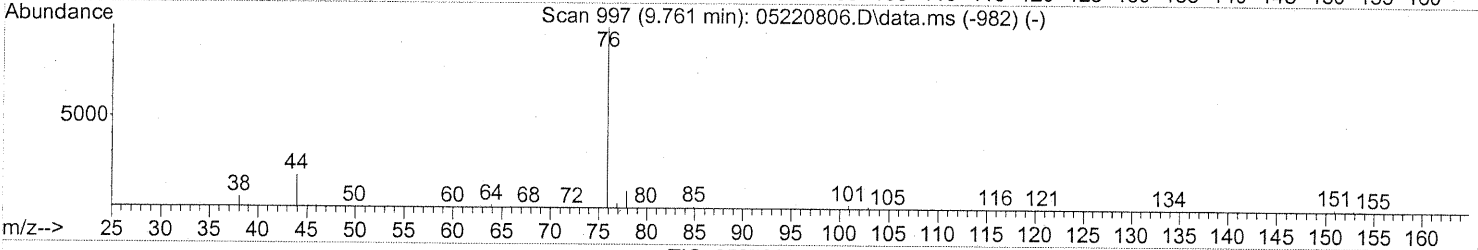
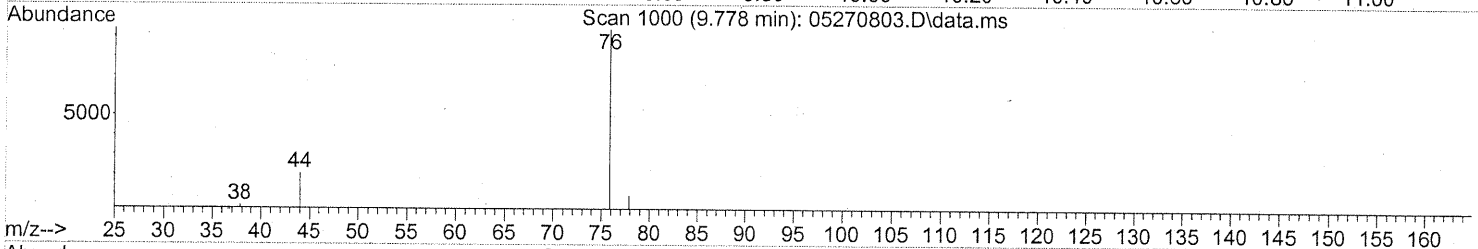
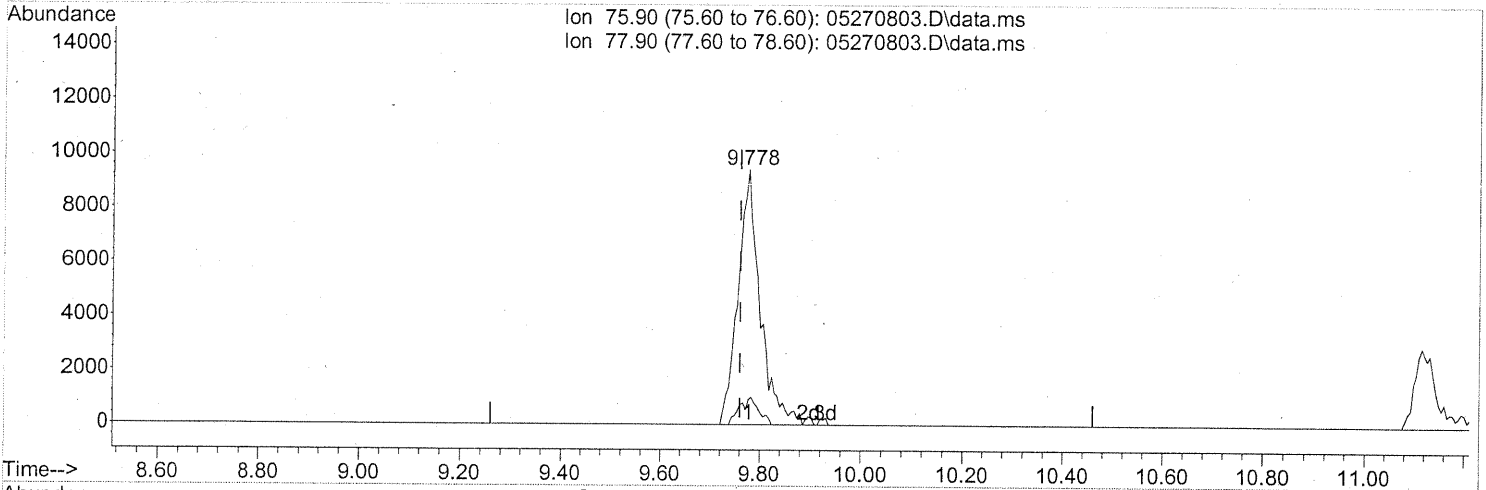
| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 393.43# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1519

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 10:35:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270803.D\data.ms

(22) Carbon Disulfide (T)

9.778min (+0.017) 0.29ng

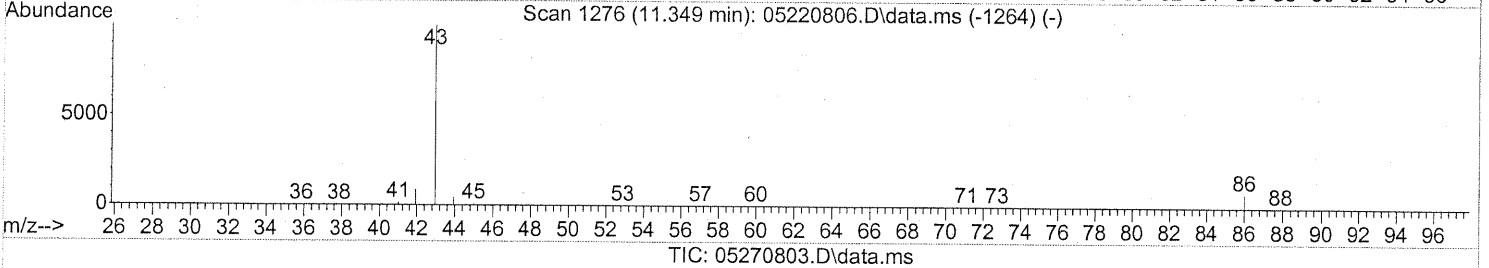
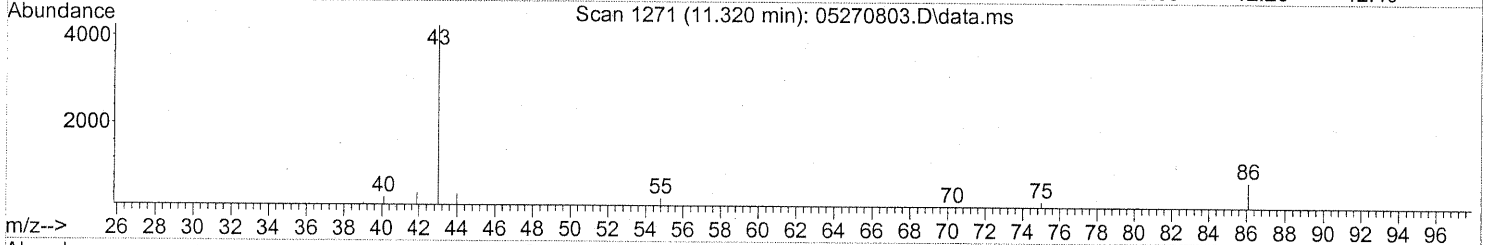
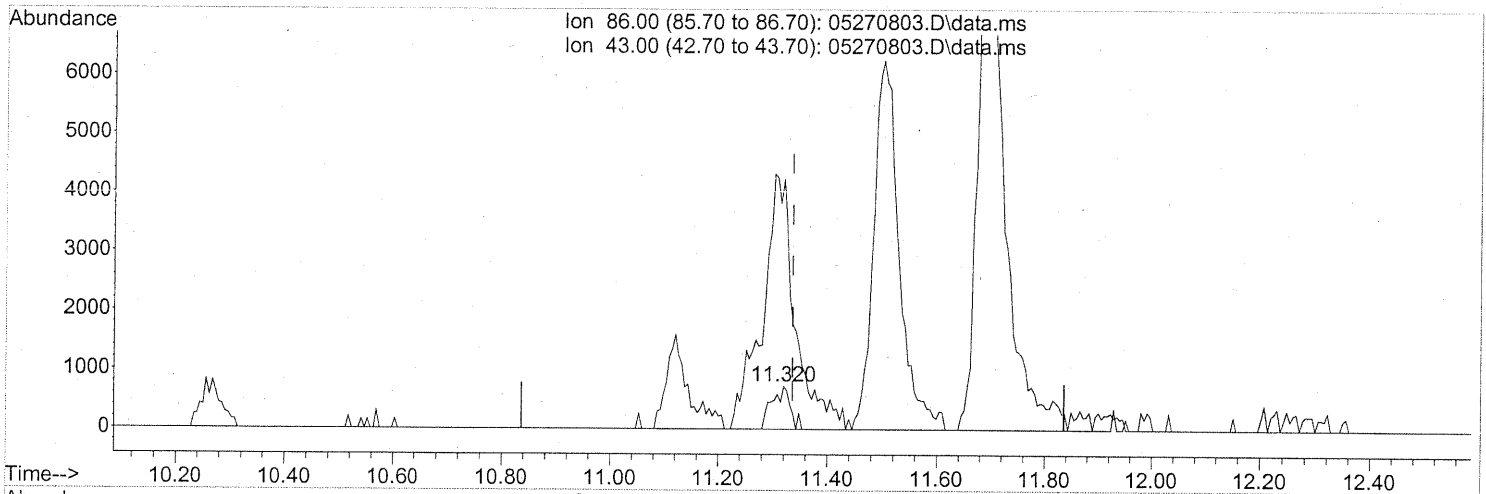
response 28729

| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 9.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 10:35:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.320min (-0.017) 0.40ng
 response 1719

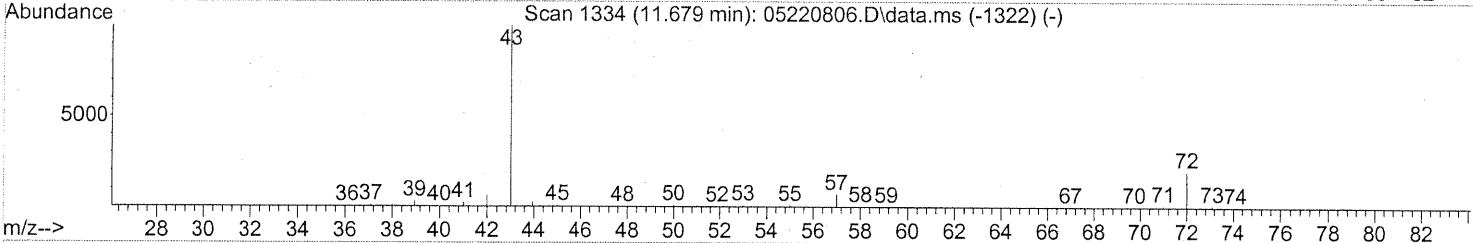
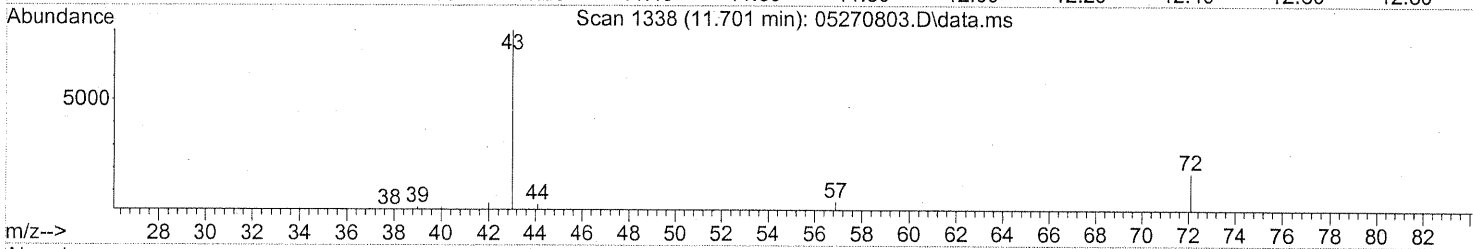
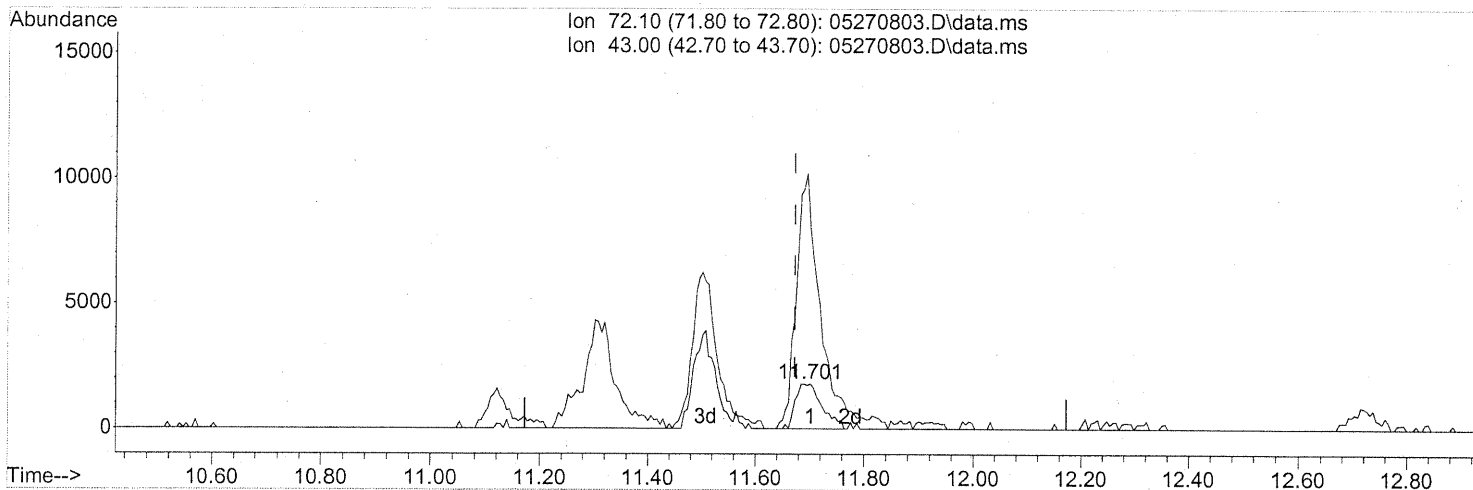
| Ion | Exp% | Act% |
|-------|---------|----------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 1058.35# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1521

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 10:35:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270803.D\data.ms

(27) 2-Butanone (T)

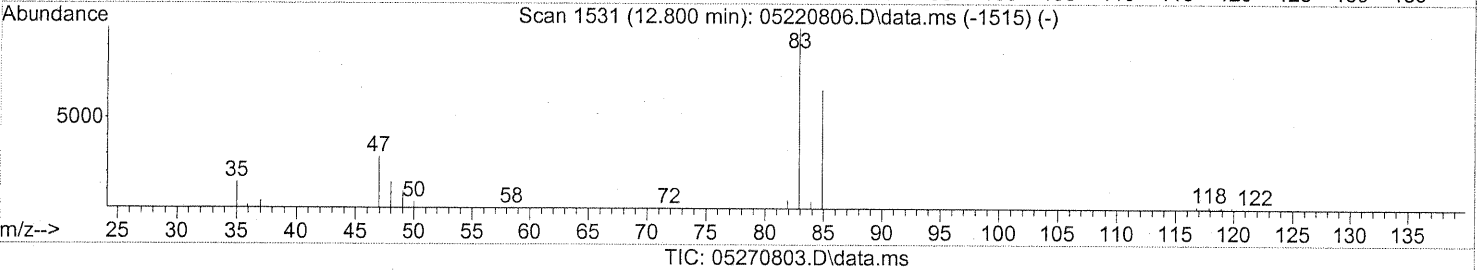
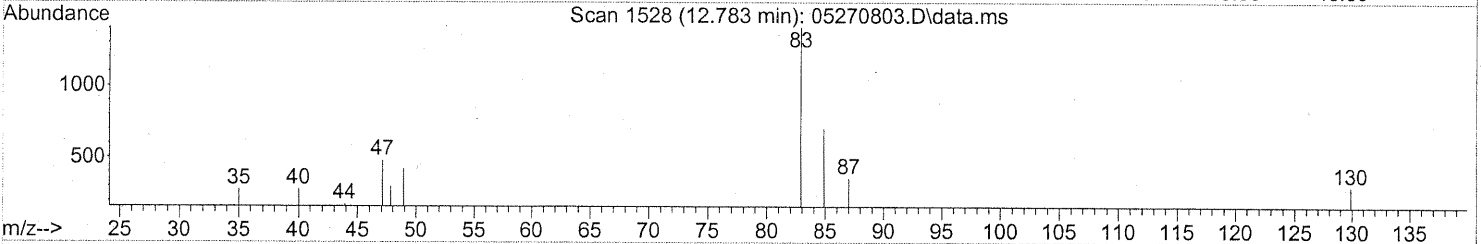
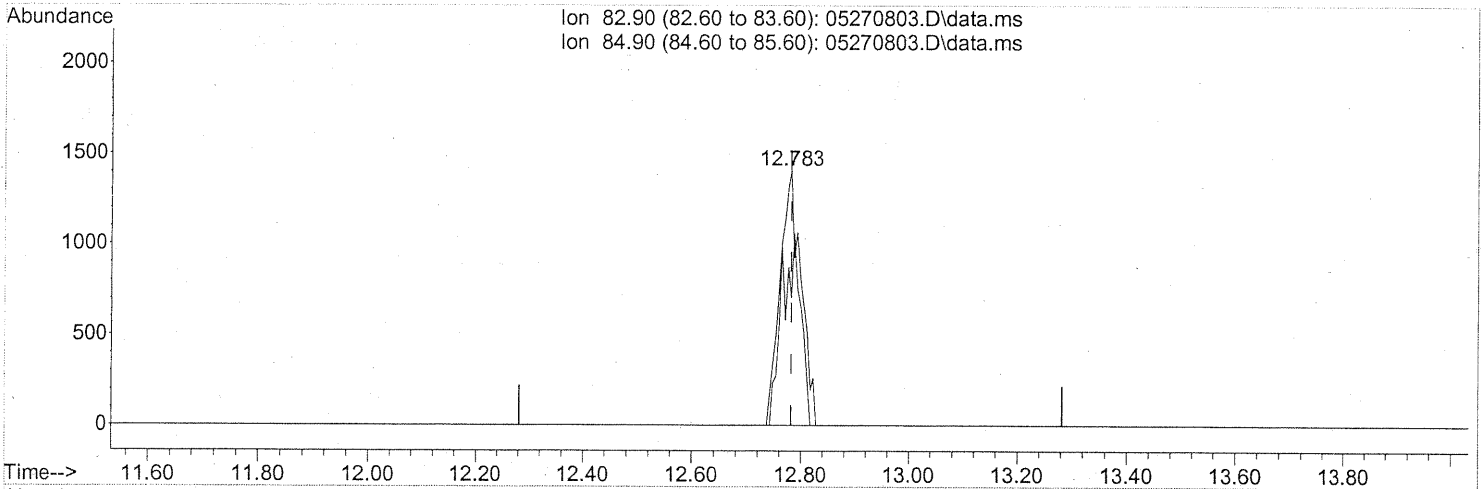
11.701min (+0.028) 0.35ng

response 6028

| Ion | Exp% | Act% |
|-------|--------|--------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 517.72 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 9:41
Operator : WA
Sample : CAS CAN QC Batch# 1151 (1.0L)
Misc : as MB (SC00641)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 10:35:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



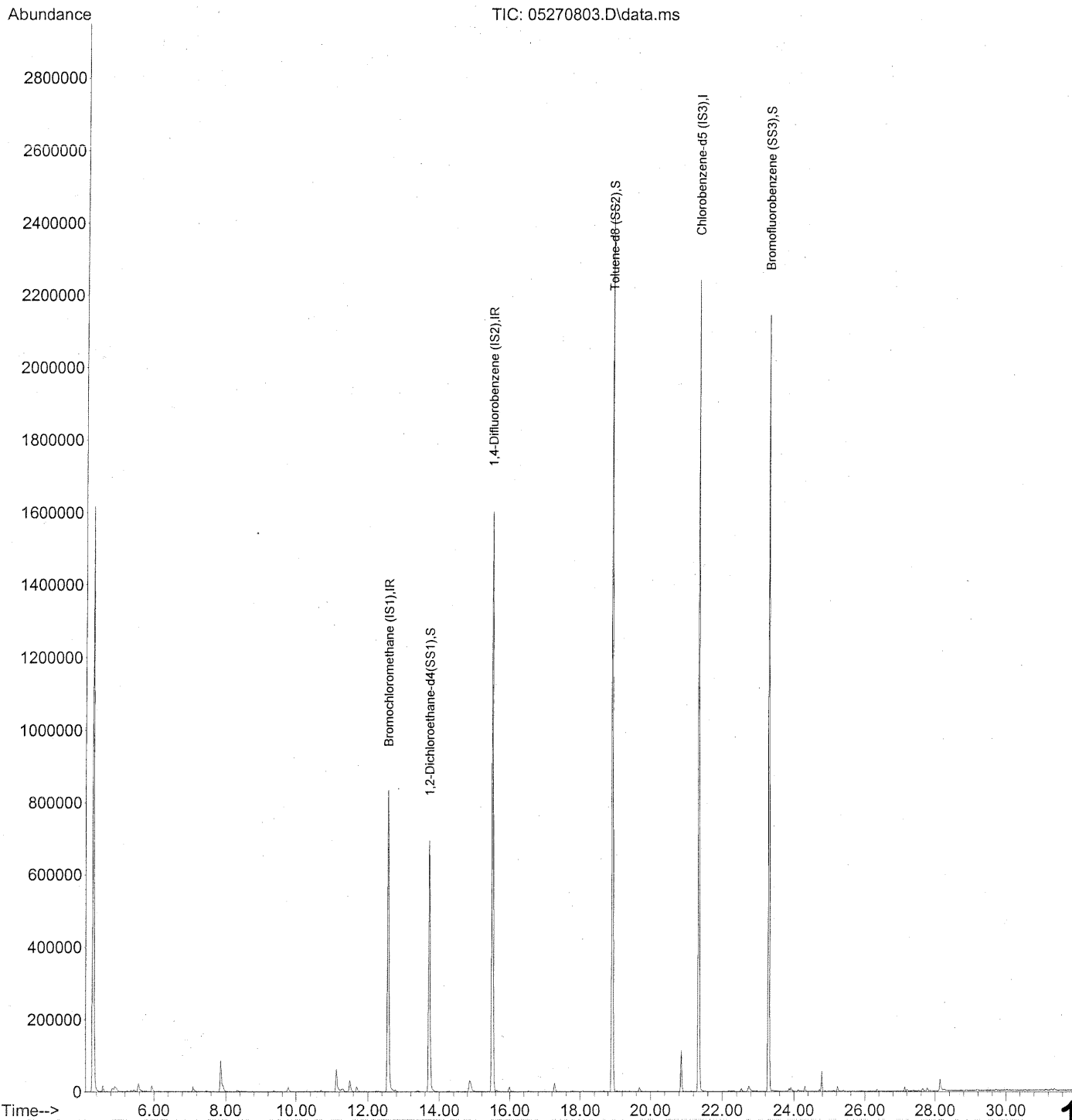
TIC: 05270803.D\data.ms

(32) Chloroform (T)
12.783min (-0.000) 0.09ng
response 3774

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 67.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41 am
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:12:29 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



1524

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270803.D
 Acq On : 27 May 2008 9:41 am
 Operator : WA
 Sample : CAS CAN QC Batch# 1151 (1.0L)
 Misc : as MB (SC00641)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:12:29 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 436763 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1861684 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 860403 | 25.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 722789 | 23.883 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 95.52% | |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1989013 | 25.740 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 102.96% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 798839 | 25.422 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 101.68% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 262 | | N.D. | Qvalue |
| 8) n-Butylbenzene | 25.93 | 91 | 791 | | N.D. | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | 0.050 | ND | 0.10 | 0.010 | |
| 74-87-3 | Chloromethane | ND | 0.10 | 0.050 | ND | 0.048 | 0.024 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | 0.050 | ND | 0.072 | 0.0072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.10 | 0.050 | ND | 0.039 | 0.020 | |
| 74-83-9 | Bromomethane | ND | 0.10 | 0.050 | ND | 0.026 | 0.013 | |
| 75-00-3 | Chloroethane | ND | 0.10 | 0.050 | ND | 0.038 | 0.019 | |
| 64-17-5 | Ethanol | ND | 5.0 | 0.050 | ND | 2.7 | 0.027 | |
| 67-64-1 | Acetone | 0.35 | 5.0 | 0.073 | 0.15 | 2.1 | 0.031 | J |
| 75-69-4 | Trichlorofluoromethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0089 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | 0.070 | ND | 0.23 | 0.032 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | 0.50 | 0.074 | ND | 0.17 | 0.024 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | 0.050 | ND | 0.14 | 0.014 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.10 | 0.050 | ND | 0.032 | 0.016 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.10 | 0.056 | ND | 0.013 | 0.0073 | |
| 75-15-0 | Carbon Disulfide | ND | 0.50 | 0.12 | ND | 0.16 | 0.039 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.10 | 0.050 | ND | 0.028 | 0.014 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | 0.16 | ND | 1.4 | 0.045 | |
| 78-93-3 | 2-Butanone (MEK) | 0.074 | 0.50 | 0.050 | 0.025 | 0.17 | 0.017 | J |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.50 | 0.059 | ND | 0.12 | 0.014 | |
| 67-66-3 | Chloroform | ND | 0.10 | 0.059 | ND | 0.020 | 0.012 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.50 | 0.051 | ND | 0.12 | 0.012 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 71-43-2 | Benzene | ND | 0.10 | 0.050 | ND | 0.031 | 0.016 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.10 | 0.050 | ND | 0.016 | 0.0080 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.50 | 0.050 | ND | 0.12 | 0.012 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.10 | 0.050 | ND | 0.022 | 0.011 | |
| 75-27-4 | Bromodichloromethane | ND | 0.10 | 0.050 | ND | 0.015 | 0.0075 | |
| 79-01-6 | Trichloroethene | ND | 0.10 | 0.050 | ND | 0.019 | 0.0093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | 0.061 | ND | 0.14 | 0.017 | |
| 80-62-6 | Methyl Methacrylate | ND | 0.50 | 0.075 | ND | 0.12 | 0.018 | |
| 142-82-5 | n-Heptane | ND | 0.50 | 0.064 | ND | 0.12 | 0.016 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.052 | ND | 0.11 | 0.011 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | 0.056 | ND | 0.12 | 0.014 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.063 | ND | 0.11 | 0.014 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 108-88-3 | Toluene | ND | 0.50 | 0.050 | ND | 0.13 | 0.013 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | 0.076 | ND | 0.12 | 0.019 | |
| 124-48-1 | Dibromochloromethane | ND | 0.10 | 0.068 | ND | 0.012 | 0.0080 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.10 | 0.054 | ND | 0.013 | 0.0070 | |
| 111-65-9 | n-Octane | ND | 0.50 | 0.050 | ND | 0.11 | 0.011 | |
| 127-18-4 | Tetrachloroethene | ND | 0.10 | 0.050 | ND | 0.015 | 0.0074 | |
| 108-90-7 | Chlorobenzene | ND | 0.10 | 0.051 | ND | 0.022 | 0.011 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08 **1527**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
CAS Sample ID: P080528-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.062 | ND | 0.12 | 0.014 | |
| 179601-23-1 | m,p-Xylenes | ND | 0.50 | 0.13 | ND | 0.12 | 0.030 | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.076 | ND | 0.048 | 0.0074 | |
| 100-42-5 | Styrene | ND | 0.50 | 0.076 | ND | 0.12 | 0.018 | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.063 | ND | 0.12 | 0.015 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.064 | ND | 0.015 | 0.0093 | |
| 98-82-8 | Cumene | ND | 0.50 | 0.056 | ND | 0.10 | 0.011 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.052 | ND | 0.10 | 0.011 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | 0.057 | ND | 0.10 | 0.012 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.060 | ND | 0.10 | 0.012 | |
| 98-83-9 | alpha-Methylstyrene | ND | 0.50 | 0.073 | ND | 0.10 | 0.015 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.069 | ND | 0.10 | 0.014 | |
| 100-44-7 | Benzyl Chloride | ND | 0.10 | 0.086 | ND | 0.019 | 0.017 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.10 | 0.062 | ND | 0.017 | 0.010 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.10 | 0.056 | ND | 0.017 | 0.0093 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.058 | ND | 0.091 | 0.011 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | ND | 0.50 | 0.065 | ND | 0.091 | 0.012 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.10 | 0.066 | ND | 0.017 | 0.011 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.076 | ND | 0.052 | 0.0079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.076 | ND | 0.013 | 0.010 | |
| 91-20-3 | Naphthalene | ND | 0.20 | 0.074 | ND | 0.038 | 0.014 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.10 | 0.090 | ND | 0.0094 | 0.0084 | |
| 98-06-6 | tert-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |
| 104-51-8 | n-Butylbenzene | ND | 0.20 | 0.050 | ND | 0.036 | 0.0091 | |

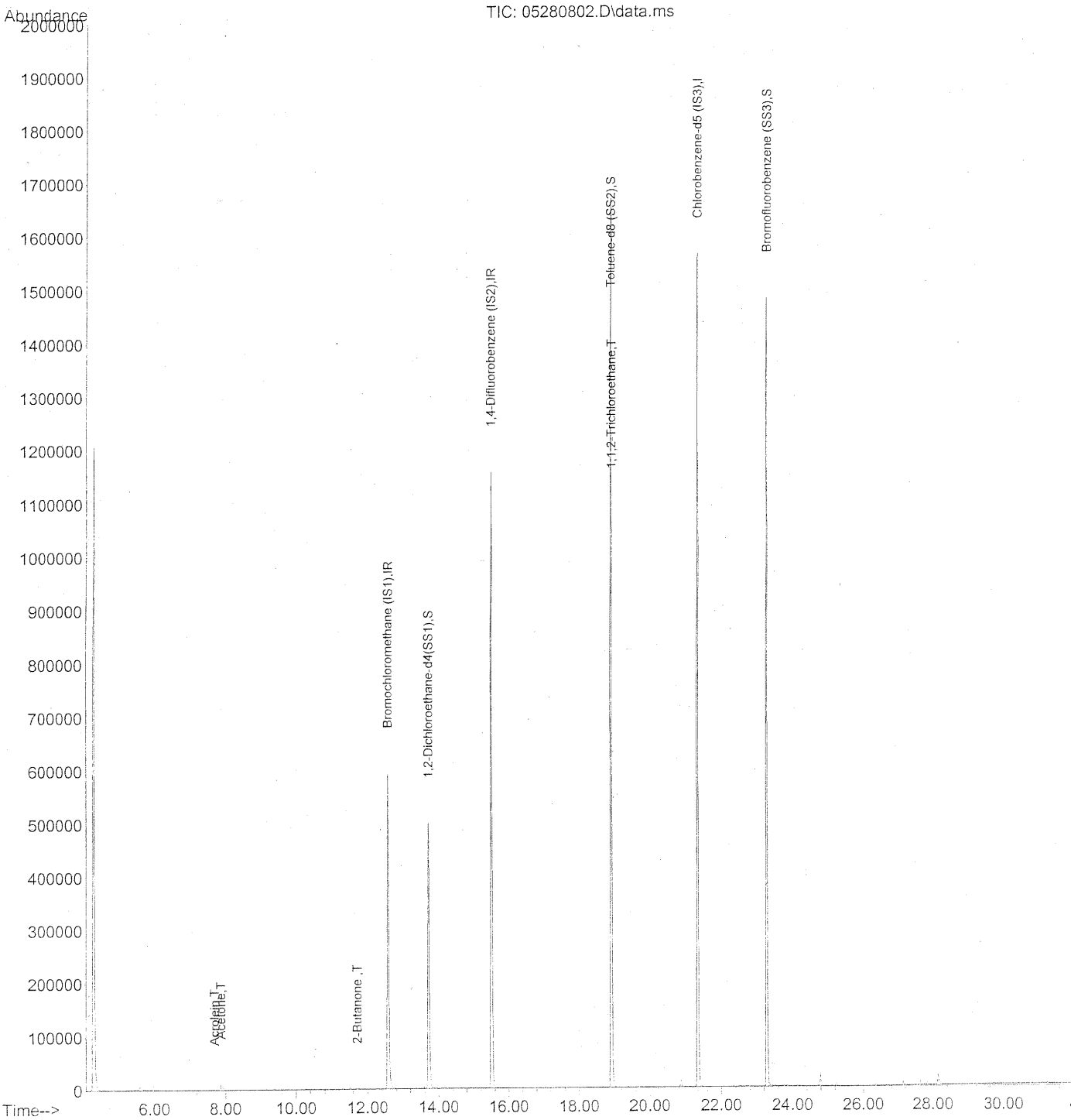
ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08 **1528**

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280802.D
Acq On : 28 May 2008 8:00
Operator : WA
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:59:02 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280802.D
 Acq On : 28 May 2008 8:00
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:59:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 322308 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1361725 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 618383 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev (Min) | Recovery |
|--------------------------------|-------|------|----------|--------|-------|-----------|-----------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 516956 | 23.148 | ng | 0.00 | 92.60% ✓ |
| Spiked Amount | | | | 25.000 | | | |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1418153 | 25.535 | ng | 0.00 | 102.16% ✓ |
| Spiked Amount | | | | 25.000 | | | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 581019 | 25.727 | ng | 0.00 | 102.92% ✓ |
| Spiked Amount | | | | 25.000 | | | |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|----------|-------|--------|
| 2) Propene | 4.86 | 42 | 1085 | N.D. | | |
| 3) Dichlorodifluoromethane | 0.00 | 85 | 0 | N.D. | | |
| 4) Chloromethane | 0.00 | 50 | 0 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.14 | 45 | 444 | N.D. | | |
| 11) Acetonitrile | 7.48 | 41 | 908 | N.D. | | |
| 12) Acrolein | 7.70 | 56 | 782 | 0.065 ng | # | 60 |
| 13) Acetone | 7.88 | 58 | 6107 | 0.352 ng | # | 19 |
| 14) Trichlorofluoromethane | 0.00 | 101 | 0 | N.D. | | |
| 15) Isopropanol | 8.36 | 45 | 58 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 9.35 | 59 | 204 | N.D. | | |
| 19) Methylene Chloride | 9.37 | 84 | 758 | N.D. | | |
| 20) Allyl Chloride | 0.00 | 41 | 0 | N.D. | | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | | |
| 22) Carbon Disulfide | 9.78 | 76 | 860 | N.D. | | |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 26) Vinyl Acetate | 11.33 | 86 | 91 | N.D. | | |
| 27) 2-Butanone | 11.72 | 72 | 940 | 0.074 ng | # | 84 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 0.00 | 57 | 0 | N.D. | | |

1530

5/29/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280802.D
 Acq On : 28 May 2008 8:00
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:59:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|-------------------------|-------|-----------|
| 32) Chloroform | 0.00 | 83 | 0 | | N.D. | |
| 34) Tetrahydrofuran | 0.00 | 72 | 0 | | N.D. | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | | N.D. | |
| 36) 1,2-Dichloroethane | 13.72 | 62 | 77 | | N.D. | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | | N.D. | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | | N.D. | |
| 40) 1-Butanol | 14.92 | 56 | 578 | | N.D. | |
| 41) Benzene | 14.97 | 78 | 1200 | | N.D. | |
| 42) Carbon Tetrachloride | 0.00 | 117 | 0 | | N.D. | |
| 43) Cyclohexane | 15.51 | 84 | 703 | | N.D. | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | | N.D. | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | | N.D. | |
| 46) Bromodichloromethane | 0.00 | 83 | 0 | | N.D. | |
| 47) Trichloroethene | 0.00 | 130 | 0 | | N.D. | |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | | N.D. | |
| 49) Isooctane | 16.62 | 57 | 55 | | N.D. | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | | N.D. | |
| 51) n-Heptane | 0.00 | 71 | 0 | | N.D. | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | | N.D. | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | | N.D. | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | | N.D. | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 124852 | 7.086 ng NR# | | 8 |
| 58) Toluene | 19.05 | 91 | 221 | | N.D. | |
| 59) 2-Hexanone | 19.39 | 43 | 1355 | | N.D. | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | | N.D. | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | | N.D. | |
| 62) Butyl Acetate | 20.20 | 43 | 55 | | N.D. | |
| 63) n-Octane | 0.00 | 57 | 0 | | N.D. | |
| 64) Tetrachloroethene | 0.00 | 166 | 0 | | N.D. | |
| 65) Chlorobenzene | 0.00 | 112 | 0 | | N.D. | |
| 66) Ethylbenzene | 21.89 | 91 | 54 | | N.D. | |
| 67) m- & p-Xylene | 22.13 | 91 | 71 | | N.D. | |
| 68) Bromoform | 0.00 | 173 | 0 | | N.D. | |
| 69) Styrene | 22.58 | 104 | 114 | | N.D. | |
| 70) o-Xylene | 22.71 | 91 | 193 | | N.D. | |
| 71) n-Nonane | 22.95 | 43 | 66 | | N.D. | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | | N.D. | |
| 74) Cumene | 23.48 | 105 | 373 | | N.D. | |
| 75) alpha-Pinene | 0.00 | 93 | 0 | | N.D. | |
| 76) n-Propylbenzene | 24.11 | 91 | 72 | | N.D. | |
| 77) 3-Ethyltoluene | 24.24 | 105 | 1007 | | N.D. | |
| 78) 4-Ethyltoluene | 24.30 | 105 | 465 | | N.D. | |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 491 | | N.D. | |

1531

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280802.D
Acq On : 28 May 2008 8:00
Operator : WA
Sample : TO-15 Method Blank (1.0L)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

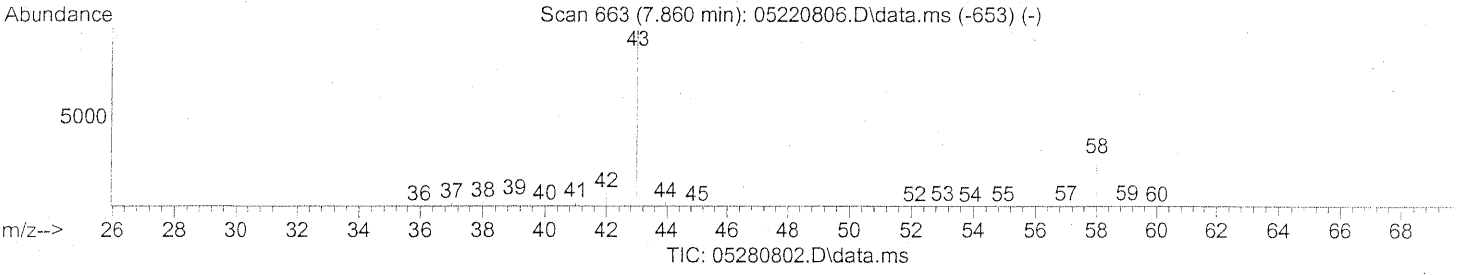
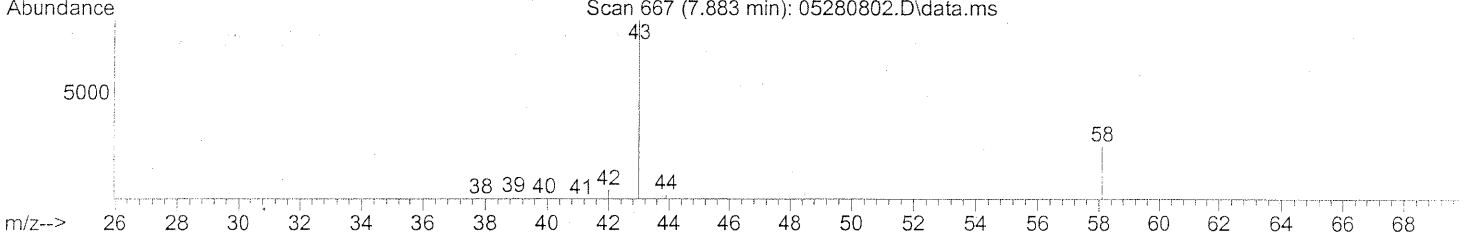
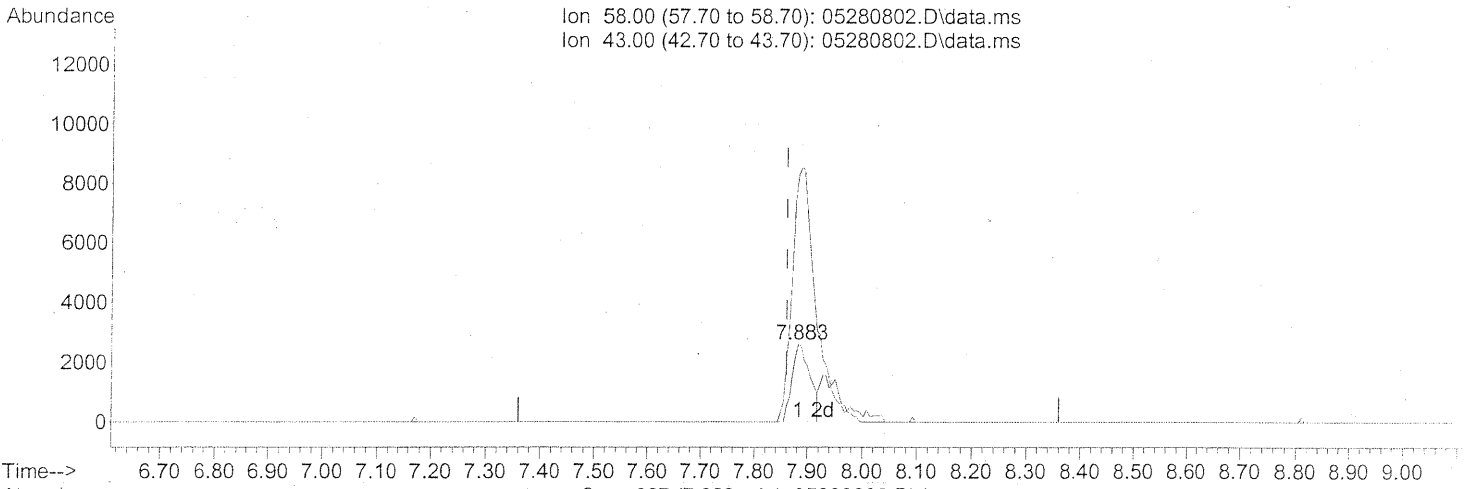
Quant Time: May 28 20:59:02 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|------|-------|----------|
| 80) alpha-Methylstyrene | 24.77 | 118 | 159 | | N.D. | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 273 | | N.D. | |
| 82) 1,2,4-Trimethylbenzene | 24.86 | 105 | 225 | | N.D. | |
| 83) n-Decane | 24.77 | 57 | 57 | | N.D. | |
| 84) Benzyl Chloride | 25.05 | 91 | 601 | | N.D. | |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 124 | | N.D. | |
| 86) 1,4-Dichlorobenzene | 25.17 | 146 | 606 | | N.D. | |
| 87) sec-Butylbenzene | 25.19 | 105 | 51 | | N.D. | |
| 88) p-Isopropyltoluene | 0.00 | 119 | 0 | | N.D. | |
| 89) 1,2,3-Trimethylbenzene | 25.19 | 105 | 51 | | N.D. | |
| 90) 1,2-Dichlorobenzene | 25.59 | 146 | 53 | | N.D. | |
| 91) d-Limonene | 0.00 | 68 | 0 | | N.D. | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | | N.D. | |
| 93) n-Undecane | 26.42 | 57 | 72 | | N.D. | |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 694 | | N.D. | |
| 95) Naphthalene | 27.78 | 128 | 4003 | | N.D. | |
| 96) n-Dodecane | 27.64 | 57 | 1511 | | N.D. | |
| 97) Hexachloro-1,3-butadiene | 0.00 | 225 | 0 | | N.D. | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280802.D
 Acq On : 28 May 2008 8:00
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:59:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)

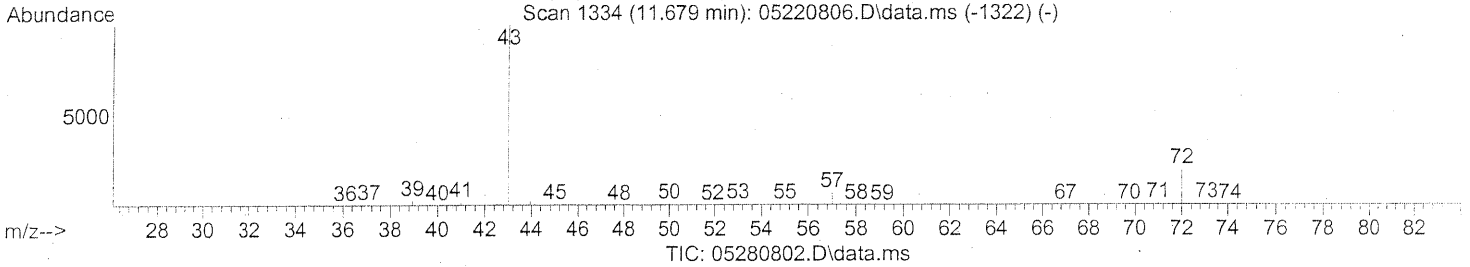
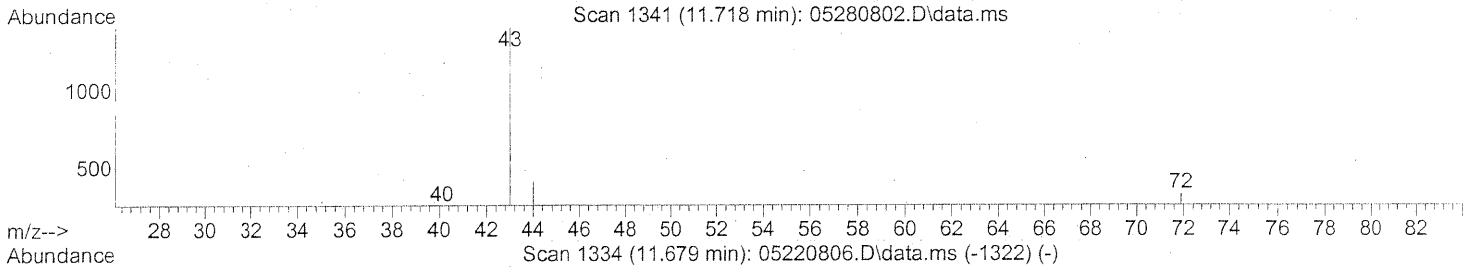
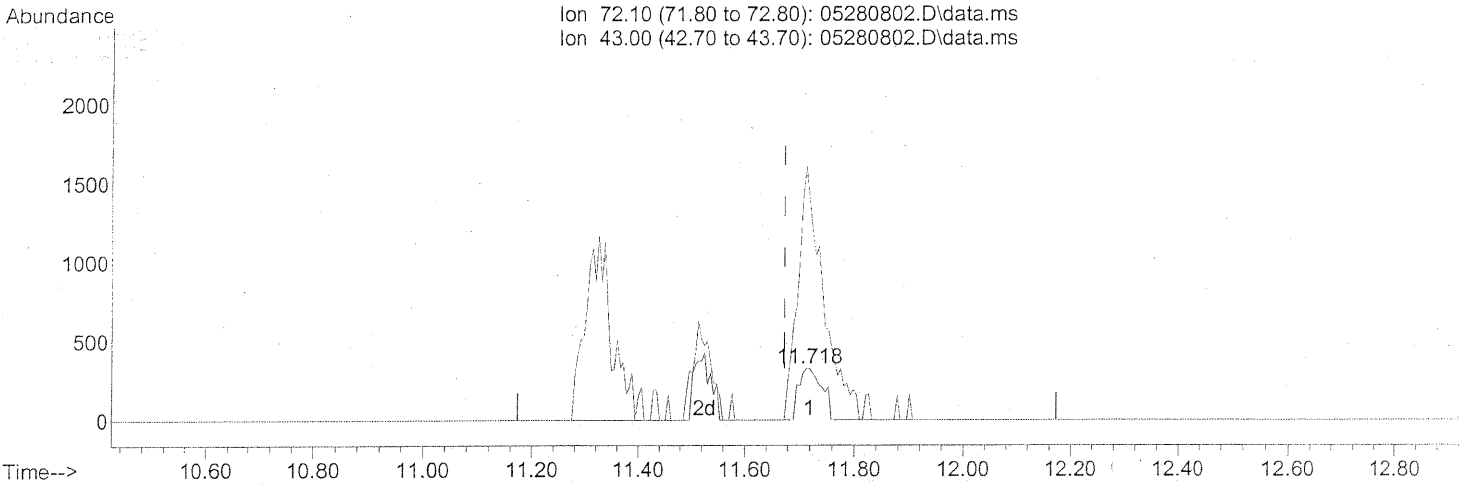
7.883min (+0.023) 0.35ng

response 6107

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 435.71# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280802.D
 Acq On : 28 May 2008 8:00
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:59:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

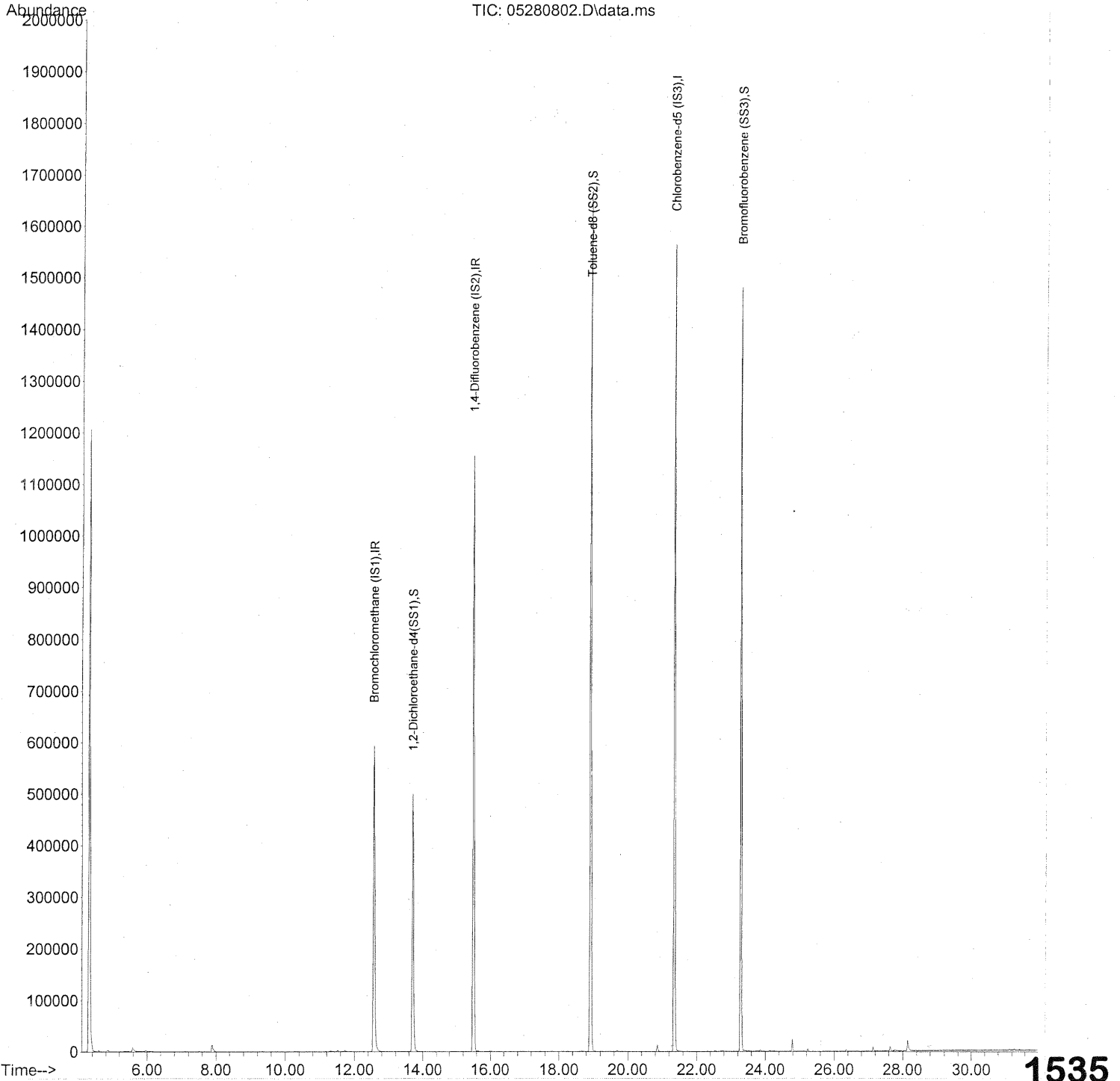


(27) 2-Butanone (T)
 11.718min (+0.045) 0.07ng
 response 940

| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 550.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280802.D
 Acq On : 28 May 2008 8:00 am
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:24:07 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280802.D
 Acq On : 28 May 2008 8:00 am
 Operator : WA
 Sample : TO-15 Method Blank (1.0L)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:24:07 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 322308 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1361725 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 618383 | 25.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 516956 | 23.148 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 92.60% | |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1418153 | 25.535 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 102.16% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 581019 | 25.727 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.92% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.90 | 119 | 56 | N.D. | | Qvalue |
| 8) n-Butylbenzene | 25.91 | 91 | 140 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

WA SB/108

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | ND | 0.50 | 0.050 | ND | 0.10 | 0.010 | |
| 74-87-3 | Chloromethane | ND | 0.10 | 0.050 | ND | 0.048 | 0.024 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 0.50 | 0.050 | ND | 0.072 | 0.0072 | |
| 75-01-4 | Vinyl Chloride | ND | 0.10 | 0.050 | ND | 0.039 | 0.020 | |
| 74-83-9 | Bromomethane | ND | 0.10 | 0.050 | ND | 0.026 | 0.013 | |
| 75-00-3 | Chloroethane | ND | 0.10 | 0.050 | ND | 0.038 | 0.019 | |
| 64-17-5 | Ethanol | ND | 5.0 | 0.050 | ND | 2.7 | 0.027 | |
| 67-64-1 | Acetone | 0.54 | 5.0 | 0.073 | 0.23 | 2.1 | 0.031 | J |
| 75-69-4 | Trichlorofluoromethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0089 | |
| 107-13-1 | Acrylonitrile | ND | 0.50 | 0.070 | ND | 0.23 | 0.032 | |
| 75-35-4 | 1,1-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | 0.50 | 0.074 | ND | 0.17 | 0.024 | |
| 75-09-2 | Methylene Chloride | ND | 0.50 | 0.050 | ND | 0.14 | 0.014 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 0.10 | 0.050 | ND | 0.032 | 0.016 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 0.10 | 0.056 | ND | 0.013 | 0.0073 | |
| 75-15-0 | Carbon Disulfide | ND | 0.50 | 0.12 | ND | 0.16 | 0.039 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 0.10 | 0.050 | ND | 0.028 | 0.014 | |
| 108-05-4 | Vinyl Acetate | ND | 5.0 | 0.16 | ND | 1.4 | 0.045 | |
| 78-93-3 | 2-Butanone (MEK) | ND | 0.50 | 0.050 | ND | 0.17 | 0.017 | |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 0.10 | 0.050 | ND | 0.025 | 0.013 | |
| 108-20-3 | Diisopropyl Ether | ND | 0.50 | 0.059 | ND | 0.12 | 0.014 | |
| 67-66-3 | Chloroform | ND | 0.10 | 0.059 | ND | 0.020 | 0.012 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/4/08 **1537**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|---------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 0.50 | 0.051 | ND | 0.12 | 0.012 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 0.10 | 0.050 | ND | 0.025 | 0.012 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 71-43-2 | Benzene | ND | 0.10 | 0.050 | ND | 0.031 | 0.016 | |
| 56-23-5 | Carbon Tetrachloride | ND | 0.10 | 0.050 | ND | 0.016 | 0.0080 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 0.50 | 0.050 | ND | 0.12 | 0.012 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 0.10 | 0.050 | ND | 0.022 | 0.011 | |
| 75-27-4 | Bromodichloromethane | ND | 0.10 | 0.050 | ND | 0.015 | 0.0075 | |
| 79-01-6 | Trichloroethene | ND | 0.10 | 0.050 | ND | 0.019 | 0.0093 | |
| 123-91-1 | 1,4-Dioxane | ND | 0.50 | 0.061 | ND | 0.14 | 0.017 | |
| 80-62-6 | Methyl Methacrylate | ND | 0.50 | 0.075 | ND | 0.12 | 0.018 | |
| 142-82-5 | n-Heptane | ND | 0.50 | 0.064 | ND | 0.12 | 0.016 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 0.50 | 0.052 | ND | 0.11 | 0.011 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 0.50 | 0.056 | ND | 0.12 | 0.014 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 0.50 | 0.063 | ND | 0.11 | 0.014 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 0.10 | 0.050 | ND | 0.018 | 0.0092 | |
| 108-88-3 | Toluene | ND | 0.50 | 0.050 | ND | 0.13 | 0.013 | |
| 591-78-6 | 2-Hexanone | ND | 0.50 | 0.076 | ND | 0.12 | 0.019 | |
| 124-48-1 | Dibromochloromethane | ND | 0.10 | 0.068 | ND | 0.012 | 0.0080 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 0.10 | 0.054 | ND | 0.013 | 0.0070 | |
| 111-65-9 | n-Octane | ND | 0.50 | 0.050 | ND | 0.11 | 0.011 | |
| 127-18-4 | Tetrachloroethene | ND | 0.10 | 0.050 | ND | 0.015 | 0.0074 | |
| 108-90-7 | Chlorobenzene | ND | 0.10 | 0.051 | ND | 0.022 | 0.011 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 5/29/08 **1538**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: Method Blank
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | ND | 0.50 | 0.062 | ND | 0.12 | 0.014 | |
| 179601-23-1 | m,p-Xylenes | ND | 0.50 | 0.13 | ND | 0.12 | 0.030 | |
| 75-25-2 | Bromoform | ND | 0.50 | 0.076 | ND | 0.048 | 0.0074 | |
| 100-42-5 | Styrene | ND | 0.50 | 0.076 | ND | 0.12 | 0.018 | |
| 95-47-6 | o-Xylene | ND | 0.50 | 0.063 | ND | 0.12 | 0.015 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 0.10 | 0.064 | ND | 0.015 | 0.0093 | |
| 98-82-8 | Cumene | ND | 0.50 | 0.056 | ND | 0.10 | 0.011 | |
| 103-65-1 | n-Propylbenzene | ND | 0.50 | 0.052 | ND | 0.10 | 0.011 | |
| 622-96-8 | 4-Ethyltoluene | ND | 0.50 | 0.057 | ND | 0.10 | 0.012 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 0.50 | 0.060 | ND | 0.10 | 0.012 | |
| 98-83-9 | alpha-Methylstyrene | ND | 0.50 | 0.073 | ND | 0.10 | 0.015 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 0.50 | 0.069 | ND | 0.10 | 0.014 | |
| 100-44-7 | Benzyl Chloride | ND | 0.10 | 0.086 | ND | 0.019 | 0.017 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 0.10 | 0.062 | ND | 0.017 | 0.010 | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 0.10 | 0.056 | ND | 0.017 | 0.0093 | |
| 135-98-8 | sec-Butylbenzene | ND | 0.50 | 0.058 | ND | 0.091 | 0.011 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | ND | 0.50 | 0.065 | ND | 0.091 | 0.012 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 0.10 | 0.066 | ND | 0.017 | 0.011 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 0.50 | 0.076 | ND | 0.052 | 0.0079 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 0.10 | 0.076 | ND | 0.013 | 0.010 | |
| 91-20-3 | Naphthalene | ND | 0.20 | 0.074 | ND | 0.038 | 0.014 | |
| 87-68-3 | Hexachlorobutadiene | ND | 0.10 | 0.090 | ND | 0.0094 | 0.0084 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

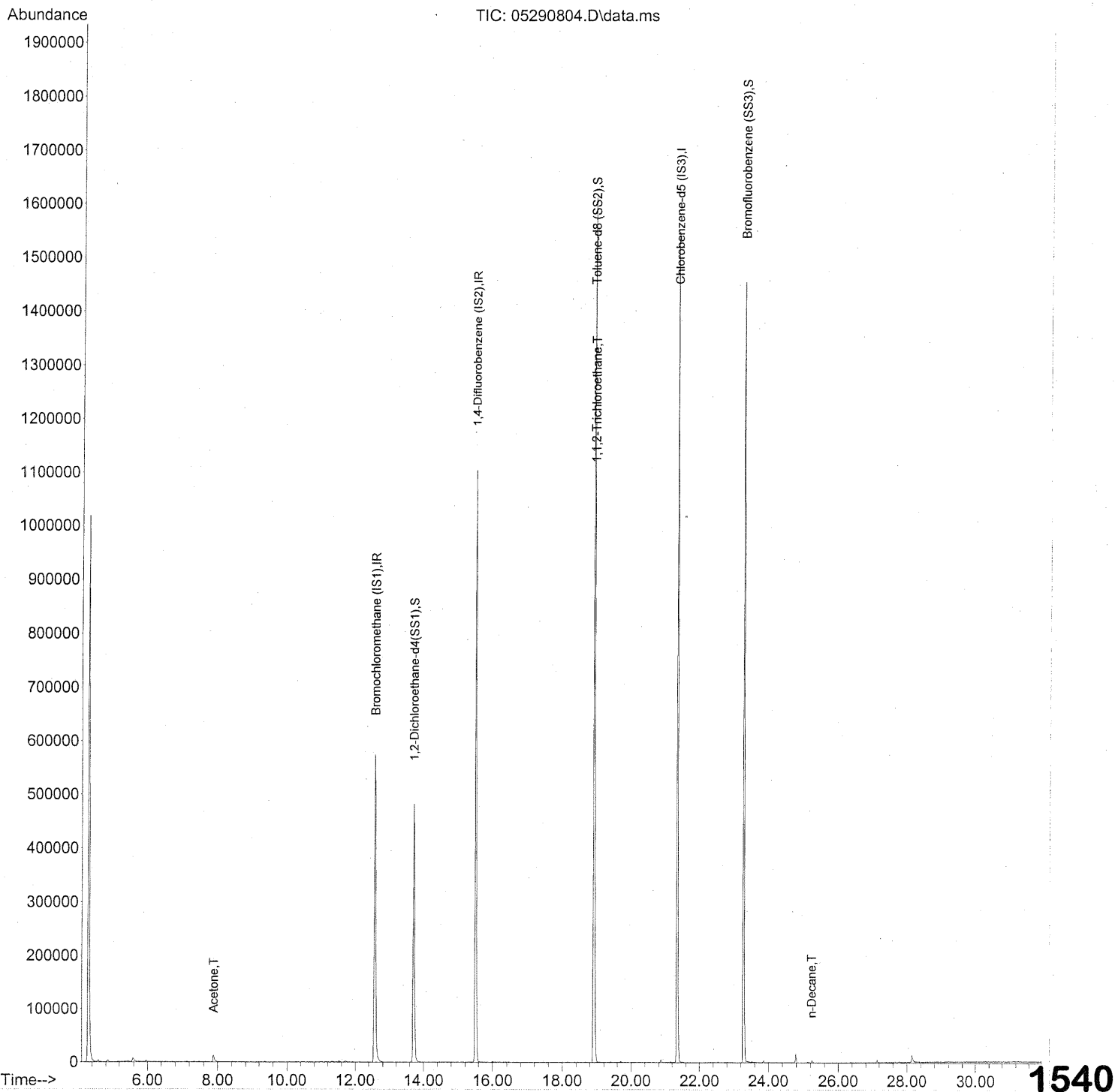
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Date: 6/4/08

1539

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290804.D
 Acq On : 29 May 2008 6:32 am
 Operator : WA
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:44:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290804.D
 Acq On : 29 May 2008 6:32 am
 Operator : WA
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:44:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 308064 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1301306 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 606309 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---------------------------------|--------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 502410 | 23.537 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 94.16% | |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1364782 | 25.064 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.24% | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 557996 | 25.200 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.80% | |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------|-------|--------|
| 2) Propene | 4.84 | 42 | 967 | N.D. | | |
| 3) Dichlorodifluoromethane | 0.00 | 85 | 0 | N.D. | | |
| 4) Chloromethane | 0.00 | 50 | 0 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.14 | 45 | 390 | N.D. | | |
| 11) Acetonitrile | 7.48 | 41 | 511 | N.D. | | |
| 12) Acrolein | 7.67 | 56 | 390 | N.D. | | |
| 13) Acetone | 7.89 | 58 | 8891 | 0.536 | ng | 99 |
| 14) Trichlorofluoromethane | 0.00 | 101 | 0 | N.D. | | |
| 15) Isopropanol | 0.00 | 45 | 0 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 0.00 | 96 | 0 | N.D. | | |
| 18) tert-Butanol | 0.00 | 59 | 0 | N.D. | | |
| 19) Methylene Chloride | 9.35 | 84 | 506 | N.D. | | |
| 20) Allyl Chloride | 9.36 | 41 | 52 | N.D. | | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | | |
| 22) Carbon Disulfide | 9.79 | 76 | 295 | N.D. | | |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 26) Vinyl Acetate | 11.33 | 86 | 58 | N.D. | | |
| 27) 2-Butanone | 11.71 | 72 | 490 | N.D. | | |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 0.00 | 57 | 0 | N.D. | | |

1541

WA 5/30/08

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290804.D
 Acq On : 29 May 2008 6:32 am
 Operator : WA
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:44:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------------------|-------|----------|
| 32) Chloroform | 0.00 | 83 | 0 | N.D. | | |
| 34) Tetrahydrofuran | 0.00 | 72 | 0 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.70 | 62 | 254 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.92 | 56 | 124 | N.D. | | |
| 41) Benzene | 14.97 | 78 | 1091 | N.D. | | |
| 42) Carbon Tetrachloride | 0.00 | 117 | 0 | N.D. | | |
| 43) Cyclohexane | 15.50 | 84 | 772 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 0.00 | 83 | 0 | N.D. | | |
| 47) Trichloroethene | 0.00 | 130 | 0 | N.D. | | |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | | |
| 49) Isooctane | 0.00 | 57 | 0 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 116823 | 6.938 ng | UR# | 8 |
| 58) Toluene | 19.05 | 91 | 67 | N.D. | | |
| 59) 2-Hexanone | 19.41 | 43 | 817 | N.D. | | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 0.00 | 43 | 0 | N.D. | | |
| 63) n-Octane | 0.00 | 57 | 0 | N.D. | | |
| 64) Tetrachloroethene | 0.00 | 166 | 0 | N.D. | | |
| 65) Chlorobenzene | 0.00 | 112 | 0 | N.D. | | |
| 66) Ethylbenzene | 0.00 | 91 | 0 | N.D. | | |
| 67) m- & p-Xylene | 22.41 | 91 | 61 | N.D. | | |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 0.00 | 104 | 0 | N.D. | | |
| 70) o-Xylene | 22.75 | 91 | 55 | N.D. | | |
| 71) n-Nonane | 22.74 | 43 | 78 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | N.D. | | |
| 74) Cumene | 23.48 | 105 | 141 | N.D. | | |
| 75) alpha-Pinene | 0.00 | 93 | 0 | N.D. | | |
| 76) n-Propylbenzene | 0.00 | 91 | 0 | N.D. | | |
| 77) 3-Ethyltoluene | 24.24 | 105 | 392 | N.D. | | |
| 78) 4-Ethyltoluene | 24.28 | 105 | 280 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 142 | N.D. | | |

1542

DA 5/30/08

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290804.D
 Acq On : 29 May 2008 6:32 am
 Operator : WA
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-05160801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:44:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

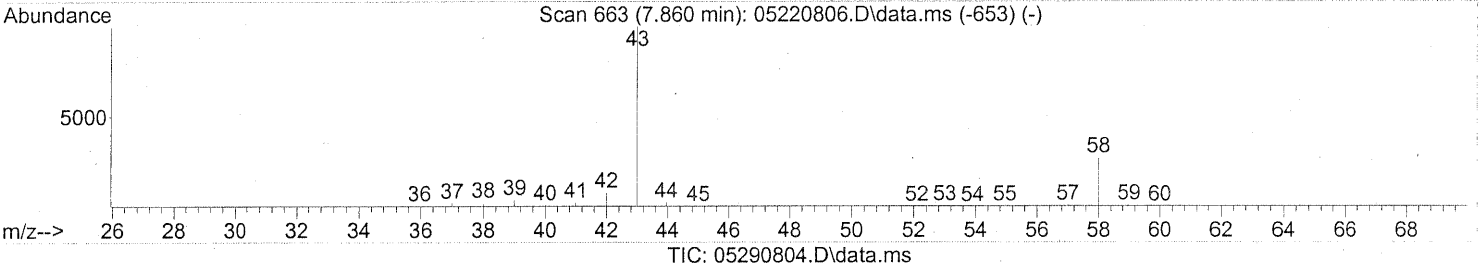
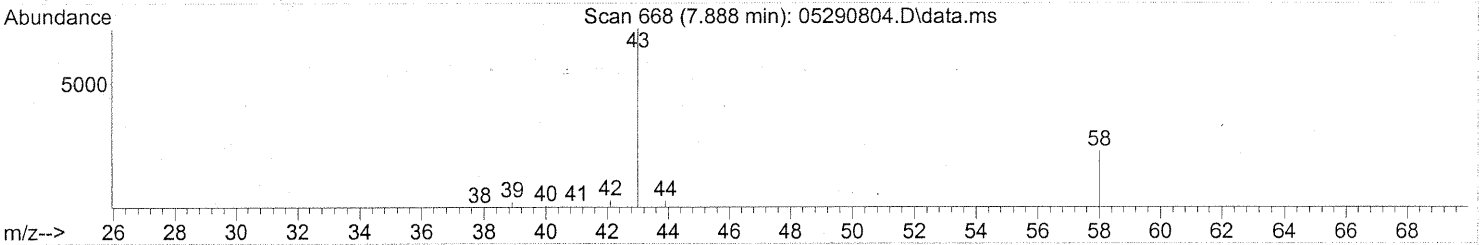
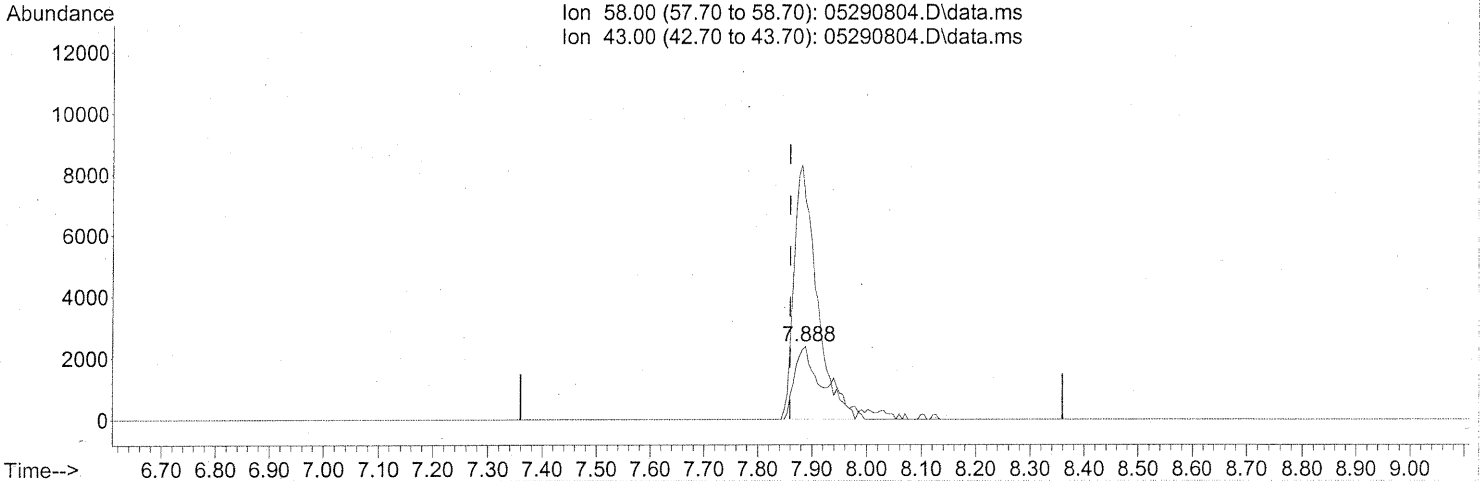
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|-------|-------|-----------|
| 80) alpha-Methylstyrene | 24.79 | 118 | 253 | N.D. | | |
| 81) 2-Ethyltoluene | 24.64 | 105 | 52 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.89 | 105 | 67 | N.D. | | |
| 83) n-Decane | 25.24 | 57 | 2937 | 0.072 | ng | # 50 |
| 84) Benzyl Chloride | 25.06 | 91 | 116 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.09 | 146 | 61 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 150 | N.D. | | |
| 87) sec-Butylbenzene | 24.89 | 105 | 67 | N.D. | | |
| 88) p-Isopropyltoluene | 0.00 | 119 | 0 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 0.00 | 105 | 0 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.16 | 146 | 150 | N.D. | | |
| 91) d-Limonene | 0.00 | 68 | 0 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.36 | 57 | 557 | N.D. | | |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 389 | N.D. | | |
| 95) Naphthalene | 27.78 | 128 | 2856 | N.D. | | |
| 96) n-Dodecane | 27.68 | 57 | 52 | N.D. | | |
| 97) Hexachloro-1,3-butadiene | 0.00 | 225 | 0 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 6:32 am
Operator : WA
Sample : TO-15 Method Blank (1000ml)
Misc : S20-05160801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:44:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.888min (+0.028) 0.54ng

response 8891

| Ion | Exp% | Act% |
|-------|--------|--------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 284.19 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1544

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 5/15 - 5/18/08
 Date(s) Received: 5/20/08
 Date(s) Analyzed: 5/23 - 5/29/08

| Client Sample ID | CAS Sample ID | 1,2-Dichloroethane-d4 | | Toluene-d8 | | Bromofluorobenzene | | Data Qualifier |
|--------------------|-----------------|-----------------------|-------------------|-------------|-------------------|--------------------|-------------------|----------------|
| | | % Recovered | Acceptance Limits | % Recovered | Acceptance Limits | % Recovered | Acceptance Limits | |
| Method Blank | P080523-MB | 97 | 70-130 | 100 | 70-130 | 99 | 70-130 | |
| Method Blank | P080526-MB | 94 | 70-130 | 103 | 70-130 | 100 | 70-130 | |
| Method Blank | P080527-MB | 96 | 70-130 | 103 | 70-130 | 102 | 70-130 | |
| Method Blank | P080528-MB | 93 | 70-130 | 102 | 70-130 | 103 | 70-130 | |
| Method Blank | P080529-MB | 94 | 70-130 | 100 | 70-130 | 101 | 70-130 | |
| Lab Control Sample | P080523-LCS | 95 | 70-130 | 99 | 70-130 | 101 | 70-130 | |
| Lab Control Sample | P080526-LCS | 92 | 70-130 | 99 | 70-130 | 102 | 70-130 | |
| Lab Control Sample | P080527-LCS | 95 | 70-130 | 101 | 70-130 | 102 | 70-130 | |
| Lab Control Sample | P080528-LCS | 91 | 70-130 | 100 | 70-130 | 104 | 70-130 | |
| Lab Control Sample | P080529-LCS | 93 | 70-130 | 101 | 70-130 | 103 | 70-130 | |
| SG76B-05 | P0801483-001 | 93 | 70-130 | 100 | 70-130 | 99 | 70-130 | |
| SG78B-05 | P0801483-002 | 98 | 70-130 | 100 | 70-130 | 98 | 70-130 | |
| SG78B-05 | P0801483-002DUP | 98 | 70-130 | 101 | 70-130 | 99 | 70-130 | |
| SG81B-05 | P0801483-003 | 98 | 70-130 | 100 | 70-130 | 99 | 70-130 | |
| SG79B-05 | P0801483-004 | 105 | 70-130 | 97 | 70-130 | 101 | 70-130 | |
| SG80B-05 | P0801483-005 | 100 | 70-130 | 101 | 70-130 | 100 | 70-130 | |
| SG26B-05 | P0801483-006 | 97 | 70-130 | 99 | 70-130 | 99 | 70-130 | |
| SG26B-05D | P0801483-007 | 98 | 70-130 | 100 | 70-130 | 100 | 70-130 | |
| SG28B-05D | P0801483-008 | 94 | 70-130 | 99 | 70-130 | 99 | 70-130 | |
| SG22B-05 | P0801483-009 | 96 | 70-130 | 98 | 70-130 | 100 | 70-130 | |
| SG86B-05 | P0801483-010 | 96 | 70-130 | 101 | 70-130 | 99 | 70-130 | |

Verified By: CA Date: 6/4/08 **1546**

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 2 of 2

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Date(s) Collected: 5/15 - 5/18/08
 Date(s) Received: 5/20/08
 Date(s) Analyzed: 5/23 - 5/29/08

| Client Sample ID | CAS Sample ID | 1,2-Dichloroethane-d4 | | Toluene-d8 | | Bromofluorobenzene | | Data Qualifier |
|------------------|-----------------|-----------------------|-------------------|-------------|-------------------|--------------------|-------------------|----------------|
| | | % Recovered | Acceptance Limits | % Recovered | Acceptance Limits | % Recovered | Acceptance Limits | |
| SG28B-05 | P0801483-011 | 99 | 70-130 | 101 | 70-130 | 99 | 70-130 | |
| SG62B-05 | P0801483-012 | 98 | 70-130 | 100 | 70-130 | 99 | 70-130 | |
| SG33B-05 | P0801483-013 | 92 | 70-130 | 98 | 70-130 | 102 | 70-130 | |
| SG82B-05 | P0801483-014 | 95 | 70-130 | 90 | 70-130 | 95 | 70-130 | |
| SG61B-05 | P0801483-015 | 96 | 70-130 | 102 | 70-130 | 100 | 70-130 | |
| SG83B-05D | P0801483-016 | 97 | 70-130 | 100 | 70-130 | 99 | 70-130 | |
| SG83B-05 | P0801483-017 | 94 | 70-130 | 101 | 70-130 | 100 | 70-130 | |
| SG27B-05 | P0801483-018 | 91 | 70-130 | 99 | 70-130 | 100 | 70-130 | |
| SG27B-05 | P0801483-018DUP | 89 | 70-130 | 99 | 70-130 | 102 | 70-130 | |
| SG32B-05 | P0801483-019 | 94 | 70-130 | 100 | 70-130 | 99 | 70-130 | |
| SG63B-05 | P0801483-020 | 93 | 70-130 | 97 | 70-130 | 100 | 70-130 | |
| SG16B-05 | P0801483-021 | 91 | 70-130 | 101 | 70-130 | 105 | 70-130 | |
| SG12B-05 | P0801483-022 | 90 | 70-130 | 94 | 70-130 | 101 | 70-130 | |
| SG08B-05 | P0801483-023 | 89 | 70-130 | 98 | 70-130 | 101 | 70-130 | |
| SG09B-05 | P0801483-024 | 88 | 70-130 | 97 | 70-130 | 102 | 70-130 | |
| SG11B-05 | P0801483-025 | 88 | 70-130 | 98 | 70-130 | 103 | 70-130 | |
| SG10B-05 | P0801483-026 | 89 | 70-130 | 99 | 70-130 | 103 | 70-130 | |
| SG07B-05 | P0801483-027 | 89 | 70-130 | 99 | 70-130 | 102 | 70-130 | |
| SG07B-05D | P0801483-028 | 92 | 70-130 | 99 | 70-130 | 103 | 70-130 | |
| SG17B-05 | P0801483-029 | 92 | 70-130 | 98 | 70-130 | 103 | 70-130 | |
| SG18B-05 | P0801483-030 | 90 | 70-130 | 99 | 70-130 | 102 | 70-130 | |

Verified By: CU Date: 6/4/08 **1547**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-----------|--|--------------------|--------------|------------|-----------------------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 25.5 | 20.5 | 80 | 69-117 | |
| 74-87-3 | Chloromethane | 24.5 | 18.5 | 76 | 53-131 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 26.0 | 22.0 | 85 | 58-133 | |
| 75-01-4 | Vinyl Chloride | 24.8 | 21.3 | 86 | 61-127 | |
| 74-83-9 | Bromomethane | 25.0 | 22.4 | 90 | 67-124 | |
| 75-00-3 | Chloroethane | 25.0 | 22.4 | 90 | 69-123 | |
| 64-17-5 | Ethanol | 23.8 | 18.9 | 79 | 56-137 | |
| 67-64-1 | Acetone | 26.8 | 23.9 | 89 | 63-116 | |
| 75-69-4 | Trichlorofluoromethane | 26.3 | 22.5 | 86 | 71-120 | |
| 107-13-1 | Acrylonitrile | 25.5 | 23.7 | 93 | 74-129 | |
| 75-35-4 | 1,1-Dichloroethene | 27.8 | 24.6 | 88 | 77-116 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 25.8 | 23.6 | 91 | 35-141 | |
| 75-09-2 | Methylene Chloride | 27.8 | 23.0 | 83 | 71-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 26.8 | 29.8 | 111 | 75-127 | |
| 76-13-1 | Trichlorotrifluoroethane | 27.8 | 24.0 | 86 | 63-129 | |
| 75-15-0 | Carbon Disulfide | 25.0 | 21.1 | 84 | 72-122 | |
| 156-60-5 | trans-1,2-Dichloroethene | 26.5 | 23.9 | 90 | 74-118 | |
| 75-34-3 | 1,1-Dichloroethane | 26.8 | 23.7 | 88 | 74-118 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 26.8 | 23.5 | 88 | 72-119 | |
| 108-05-4 | Vinyl Acetate | 25.3 | 30.2 | 119 | 32-163 | |
| 78-93-3 | 2-Butanone (MEK) | 27.0 | 23.8 | 88 | 71-122 | |
| 156-59-2 | cis-1,2-Dichloroethene | 27.0 | 23.5 | 87 | 74-117 | |
| 108-20-3 | Diisopropyl Ether | 26.3 | 22.8 | 87 | 70-131 | |
| 67-66-3 | Chloroform | 29.8 | 26.5 | 89 | 72-113 | |

Verified By: CA Date: 6/4/08 **1548**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/08
Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|------------|---------------------------|--------------------|--------------|------------|-----------------------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | 26.0 | 23.4 | 90 | 74-123 | |
| 107-06-2 | 1,2-Dichloroethane | 26.3 | 22.3 | 85 | 72-117 | |
| 71-55-6 | 1,1,1-Trichloroethane | 26.8 | 23.5 | 88 | 78-114 | |
| 71-43-2 | Benzene | 27.0 | 23.5 | 87 | 73-111 | |
| 56-23-5 | Carbon Tetrachloride | 26.0 | 24.2 | 93 | 78-126 | |
| 994-05-8 | tert-Amyl Methyl Ether | 26.0 | 23.8 | 92 | 81-118 | |
| 78-87-5 | 1,2-Dichloropropane | 26.5 | 23.6 | 89 | 78-117 | |
| 75-27-4 | Bromodichloromethane | 27.8 | 25.5 | 92 | 77-120 | |
| 79-01-6 | Trichloroethene | 27.3 | 22.0 | 81 | 80-116 | |
| 123-91-1 | 1,4-Dioxane | 27.5 | 23.9 | 87 | 79-122 | |
| 80-62-6 | Methyl Methacrylate | 25.8 | 24.6 | 95 | 79-128 | |
| 142-82-5 | n-Heptane | 26.8 | 24.1 | 90 | 77-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 25.0 | 23.8 | 95 | 78-112 | |
| 108-10-1 | 4-Methyl-2-pentanone | 27.5 | 23.2 | 84 | 78-128 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 28.0 | 28.0 | 100 | 81-121 | |
| 79-00-5 | 1,1,2-Trichloroethane | 26.3 | 23.9 | 91 | 80-117 | |
| 108-88-3 | Toluene | 26.5 | 23.2 | 88 | 76-116 | |
| 591-78-6 | 2-Hexanone | 26.3 | 21.9 | 83 | 69-131 | |
| 124-48-1 | Dibromochloromethane | 27.0 | 25.7 | 95 | 80-128 | |
| 106-93-4 | 1,2-Dibromoethane | 26.3 | 24.2 | 92 | 79-122 | |
| 111-65-9 | n-Octane | 26.0 | 24.0 | 92 | 78-122 | |
| 127-18-4 | Tetrachloroethene | 26.0 | 22.8 | 88 | 77-118 | |
| 108-90-7 | Chlorobenzene | 26.5 | 23.3 | 88 | 78-117 | |

Verified By: *CR* Date: 6/4/08 **1549**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080523-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

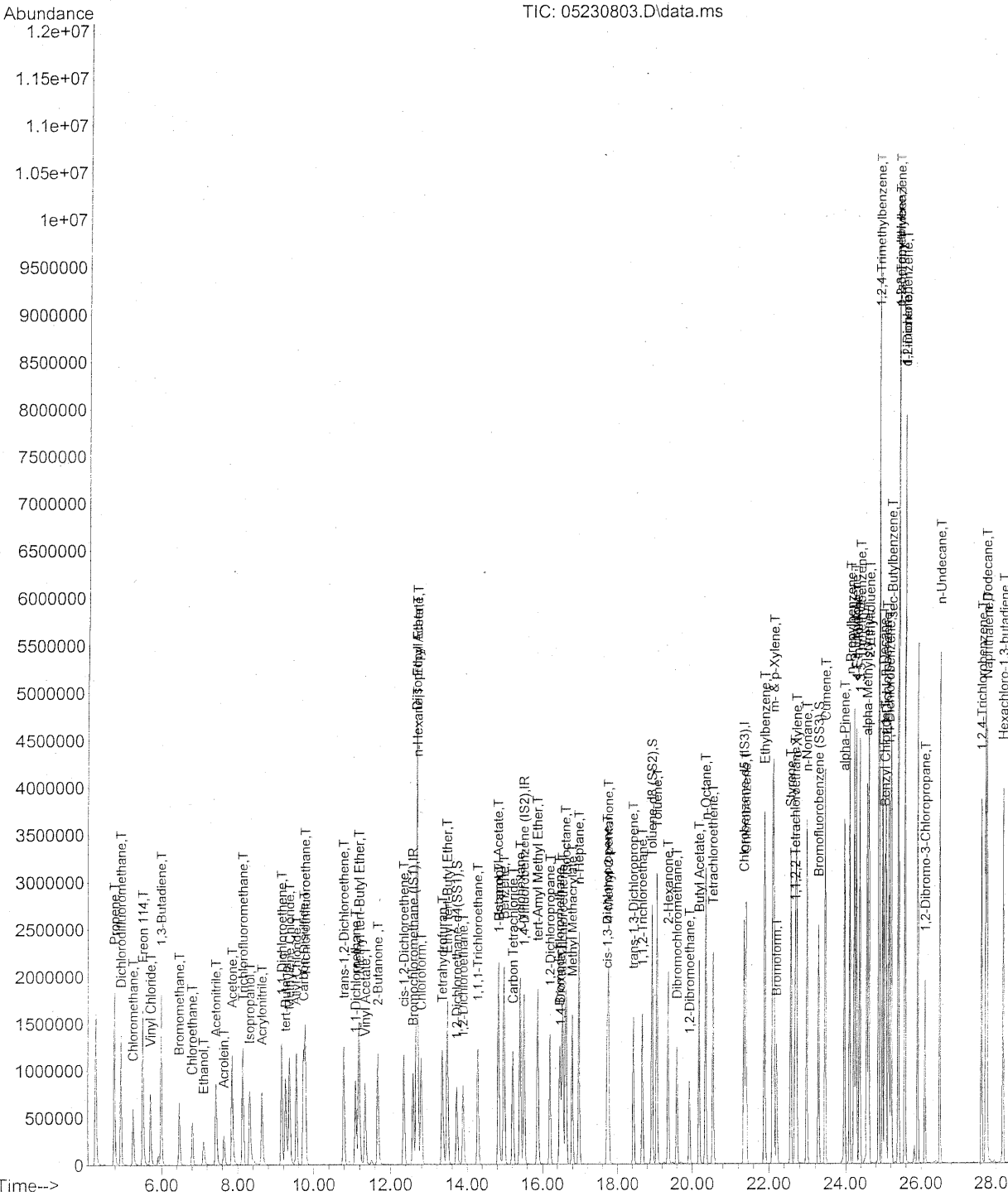
Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/23/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-------------|-------------------------------|--------------------|--------------|------------|-----------------------------|-------------------|
| 100-41-4 | Ethylbenzene | 26.3 | 23.6 | 90 | 79-116 | |
| 179601-23-1 | m,p-Xylenes | 62.5 | 56.0 | 90 | 80-117 | |
| 75-25-2 | Bromoform | 31.3 | 31.6 | 101 | 77-128 | |
| 100-42-5 | Styrene | 26.3 | 23.7 | 90 | 80-124 | |
| 95-47-6 | o-Xylene | 29.8 | 26.6 | 89 | 80-116 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 29.8 | 29.5 | 99 | 79-120 | |
| 98-82-8 | Cumene | 27.0 | 24.4 | 90 | 81-119 | |
| 103-65-1 | n-Propylbenzene | 26.3 | 24.2 | 92 | 82-120 | |
| 622-96-8 | 4-Ethyltoluene | 26.5 | 24.4 | 92 | 80-119 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 26.0 | 23.2 | 89 | 80-120 | |
| 98-83-9 | alpha-Methylstyrene | 25.5 | 21.3 | 84 | 54-146 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 26.0 | 24.1 | 93 | 80-122 | |
| 100-44-7 | Benzyl Chloride | 25.8 | 29.2 | 113 | 85-131 | |
| 541-73-1 | 1,3-Dichlorobenzene | 25.5 | 23.5 | 92 | 81-117 | |
| 106-46-7 | 1,4-Dichlorobenzene | 26.3 | 24.2 | 92 | 81-119 | |
| 135-98-8 | sec-Butylbenzene | 26.8 | 24.7 | 92 | 80-124 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 28.8 | 27.9 | 97 | 78-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 25.8 | 23.8 | 92 | 81-122 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25.8 | 27.5 | 107 | 91-136 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 26.0 | 24.4 | 94 | 75-138 | |
| 91-20-3 | Naphthalene | 26.3 | 23.8 | 90 | 76-143 | |
| 87-68-3 | Hexachlorobutadiene | 26.3 | 24.1 | 92 | 72-128 | |
| 98-06-6 | tert-Butylbenzene | 26.3 | 24.5 | 93 | 70-130 | |
| 104-51-8 | n-Butylbenzene | 26.8 | 24.9 | 93 | 70-130 | |

Verified By: *CR* Date: 6/4/08 **1550**

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230803.D
 Acq On : 23 May 2008 9:49 am
 Operator : RTB
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 23 10:21:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230803.D
 Acq On : 23 May 2008 9:49 am
 Operator : RTB
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 23 10:21:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 505476 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2137808 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1018747 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---------------------------------|--------|-----|---------|----------|----|---------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 832555 | 23.771 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 95.08% |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2267268 | 24.781 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 99.12% |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 938794 | 25.233 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 100.92% |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.78 | 42 | 864697 | 21.660 | ng | 89 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 1507080 | 20.481 | ng | 99 |
| 4) Chloromethane | 5.26 | 50 | 882265 | 18.516 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 796338 | 22.000 | ng | 99 |
| 6) Vinyl Chloride | 5.71 | 62 | 1016145 | 21.314 | ng | 97 |
| 7) 1,3-Butadiene | 5.99 | 54 | 1010123 | 28.484 | ng | # 79 |
| 8) Bromomethane | 6.48 | 94 | 595490 | 22.429 | ng | 98 |
| 9) Chloroethane | 6.81 | 64 | 507318 | 22.401 | ng | 95 |
| 10) Ethanol | 7.11 | 45 | 501208 | 18.859 | ng | 94 |
| 11) Acetonitrile | 7.43 | 41 | 1425023 | 18.541 | ng | 97 |
| 12) Acrolein | 7.64 | 56 | 419258 | 22.083 | ng | 97 |
| 13) Acetone | 7.85 | 58 | 649454 | 23.868 | ng | # 66 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1419551 | 22.485 | ng | 99 |
| 15) Isopropanol | 8.31 | 45 | 1703015 | 19.624 | ng | 96 |
| 16) Acrylonitrile | 8.63 | 53 | 980617 | 23.668 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.15 | 96 | 683496 | 24.612 | ng | # 79 |
| 18) tert-Butanol | 9.25 | 59 | 1744089 | 23.628 | ng | 95 |
| 19) Methylene Chloride | 9.36 | 84 | 699508 | 23.002 | ng | # 81 |
| 20) Allyl Chloride | 9.54 | 41 | 1207918 | 29.769 | ng | 99 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 688918 | 23.996 | ng | 93 |
| 22) Carbon Disulfide | 9.76 | 76 | 2439536 | 21.140 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 1075851 | 23.917 | ng | 85 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1251865 | 23.724 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 2070864 | 23.535 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 152042 | 30.234 | ng | # 87 |
| 27) 2-Butanone | 11.67 | 72 | 473317 | 23.833 | ng | 93 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 1009431 | 23.480 | ng | 84 |
| 29) Diisopropyl Ether | 12.68 | 87 | 554947 | 22.804 | ng | # 87 |
| 30) Ethyl Acetate | 12.69 | 61 | 279477 | 26.068 | ng | 77 |
| 31) n-Hexane | 12.70 | 57 | 1290444 | 23.854 | ng | 89 |

1552

RTB
 5/23/08

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230803.D
Acq On : 23 May 2008 9:49 am
Operator : RTB
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 23 10:21:19 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.79 | 83 | 1221501 | 26.501 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 438180 | 23.079 | ng | 93 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 796479 | 23.371 | ng # | 75 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 994076 | 22.323 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1142614 | 23.469 | ng | 97 |
| 39) Isopropyl Acetate | 14.83 | 61 | 457266 | 25.042 | ng # | 52 |
| 40) 1-Butanol | 14.84 | 56 | 530136 | 18.041 | ng # | 51 |
| 41) Benzene | 14.99 | 78 | 2631099 | 23.505 | ng | 100 |
| 42) Carbon Tetrachloride | 15.22 | 117 | 1041736 | 24.165 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 1019989 | 23.424 | ng # | 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1914554 | 23.843 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 708287 | 23.649 | ng | 98 |
| 46) Bromodichloromethane | 16.46 | 83 | 965512 | 25.518 | ng | 99 |
| 47) Trichloroethene | 16.54 | 130 | 755857 | 22.012 | ng | 100 |
| 48) 1,4-Dioxane | 16.49 | 88 | 505466 | 23.942 | ng | 82 |
| 49) Isooctane | 16.62 | 57 | 3030623 | 23.615 | ng | 81 |
| 50) Methyl Methacrylate | 16.80 | 100 | 275007 | 24.586 | ng | 89 |
| 51) n-Heptane | 16.98 | 71 | 715375 | 24.052 | ng # | 80 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 1060948 | 23.844 | ng | 100 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 690748 | 23.242 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 1076106 | 28.035 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 661851 | 23.927 | ng | 98 |
| 58) Toluene | 19.07 | 91 | 2887739 | 23.219 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 1878450 | 21.920 | ng | 83 |
| 60) Dibromochloromethane | 19.60 | 129 | 861901 | 25.658 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.94 | 107 | 787133 | 24.180 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 2097138 | 24.110 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 659148 | 23.964 | ng | 90 |
| 64) Tetrachloroethene | 20.55 | 166 | 840127 | 22.829 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 1944315 | 23.319 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 3370013 | 23.632 | ng | 95 |
| 67) m- & p-Xylene | 22.13 | 91 | 5342381 | 56.006 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 789625 | 31.590 | ng | 100 |
| 69) Styrene | 22.57 | 104 | 2024074 | 23.738 | ng | 97 |
| 70) o-Xylene | 22.72 | 91 | 2736093 | 26.572 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1734231 | 23.719 | ng # | 83 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 1265561 | 29.490 | ng | 98 |
| 74) Cumene | 23.47 | 105 | 3351392 | 24.441 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1656879 | 23.369 | ng | 96 |
| 76) n-Propylbenzene | 24.10 | 91 | 4219617 | 24.185 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3471536 | 23.786 | ng | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3321083 | 24.408 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 2851047 | 23.193 | ng | 100 |

1553

Post/23/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230803.D
 Acq On : 23 May 2008 9:49 am
 Operator : RTB
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 23 10:21:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

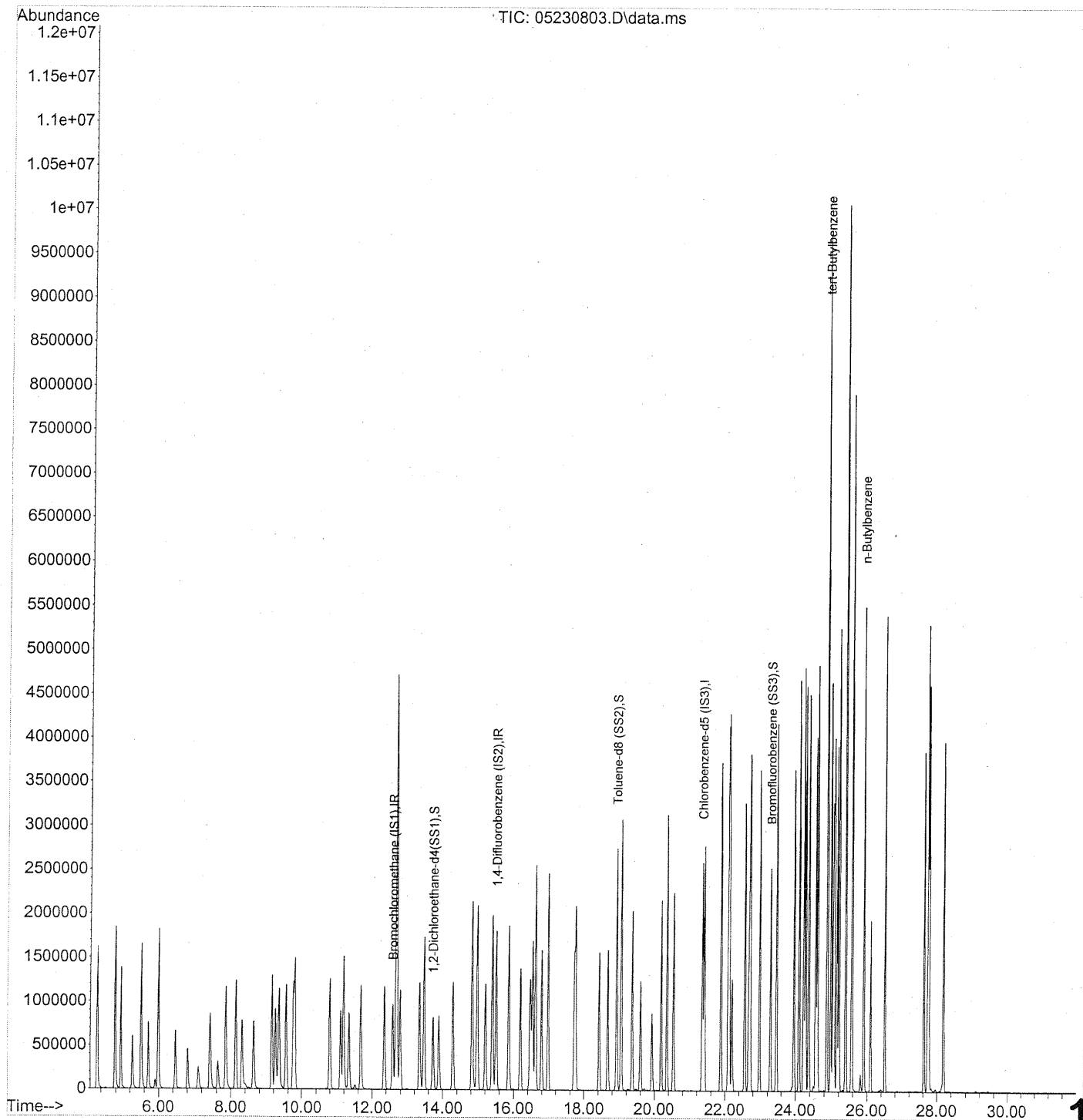
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1418909 | 21.320 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3416989 | 23.101 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 3013451 | 24.079 | ng | 100 |
| 83) n-Decane | 24.99 | 57 | 1699540 | 24.682 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 2454581 | 29.229 | ng | 98 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1841725 | 23.538 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1832477 | 24.158 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 3946200 | 24.670 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3679810 | 27.947 | ng | 95 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 3210743 | 26.219 | ng | 99 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1763682 | 23.766 | ng | 100 |
| 91) d-Limonene | 25.58 | 68 | 1037161 | 20.802 | ng | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 633722 | 27.517 | ng | 94 |
| 93) n-Undecane | 26.50 | 57 | 1788404 | 24.816 | ng | 84 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1327925 | 24.431 | ng | 95 |
| 95) Naphthalene | 27.77 | 128 | 3922552 | 23.763 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1730865 | 24.151 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 872073 | 24.102 | ng | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Handwritten signature: Pios/23/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230803.D
 Acq On : 23 May 2008 9:49
 Operator : RTB
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:16:54 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



1555

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230803.D
 Acq On : 23 May 2008 9:49
 Operator : RTB
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 03 12:16:54 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|---------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 505476 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2137808 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1018747 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 832555 | 23.771 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 95.08% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2267268 | 24.781 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 99.12% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 938794 | 25.233 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.92% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 2931439 | 24.504 | ng | 98 |
| 8) n-Butylbenzene | 25.91 | 91 | 3293427 | 24.894 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/26/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-----------|--|--------------------|--------------|------------|-----------------------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 25.5 | 21.2 | 83 | 69-117 | |
| 74-87-3 | Chloromethane | 24.5 | 21.7 | 89 | 53-131 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 26.0 | 23.0 | 88 | 58-133 | |
| 75-01-4 | Vinyl Chloride | 24.8 | 22.1 | 89 | 61-127 | |
| 74-83-9 | Bromomethane | 25.0 | 24.1 | 96 | 67-124 | |
| 75-00-3 | Chloroethane | 25.0 | 23.4 | 94 | 69-123 | |
| 64-17-5 | Ethanol | 23.8 | 19.7 | 83 | 56-137 | |
| 67-64-1 | Acetone | 26.8 | 22.6 | 84 | 63-116 | |
| 75-69-4 | Trichlorofluoromethane | 26.3 | 22.6 | 86 | 71-120 | |
| 107-13-1 | Acrylonitrile | 25.5 | 24.1 | 95 | 74-129 | |
| 75-35-4 | 1,1-Dichloroethene | 27.8 | 24.8 | 89 | 77-116 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 25.8 | 23.7 | 92 | 35-141 | |
| 75-09-2 | Methylene Chloride | 27.8 | 23.7 | 85 | 71-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 26.8 | 28.9 | 108 | 75-127 | |
| 76-13-1 | Trichlorotrifluoroethane | 27.8 | 24.5 | 88 | 63-129 | |
| 75-15-0 | Carbon Disulfide | 25.0 | 21.9 | 88 | 72-122 | |
| 156-60-5 | trans-1,2-Dichloroethene | 26.5 | 24.2 | 91 | 74-118 | |
| 75-34-3 | 1,1-Dichloroethane | 26.8 | 24.0 | 90 | 74-118 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 26.8 | 23.9 | 89 | 72-119 | |
| 108-05-4 | Vinyl Acetate | 25.3 | 30.2 | 119 | 32-163 | |
| 78-93-3 | 2-Butanone (MEK) | 27.0 | 23.9 | 89 | 71-122 | |
| 156-59-2 | cis-1,2-Dichloroethene | 27.0 | 23.8 | 88 | 74-117 | |
| 108-20-3 | Diisopropyl Ether | 26.3 | 23.1 | 88 | 70-131 | |
| 67-66-3 | Chloroform | 29.8 | 26.8 | 90 | 72-113 | |

Verified By: CA Date: 6/4/08 **1557**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS | Data Qualifier |
|------------|---------------------------|--------------------|--------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 637-92-3 | Ethyl tert-Butyl Ether | 26.0 | 23.3 | 90 | 74-123 | |
| 107-06-2 | 1,2-Dichloroethane | 26.3 | 22.1 | 84 | 72-117 | |
| 71-55-6 | 1,1,1-Trichloroethane | 26.8 | 24.2 | 90 | 78-114 | |
| 71-43-2 | Benzene | 27.0 | 24.2 | 90 | 73-111 | |
| 56-23-5 | Carbon Tetrachloride | 26.0 | 24.9 | 96 | 78-126 | |
| 994-05-8 | tert-Amyl Methyl Ether | 26.0 | 24.1 | 93 | 81-118 | |
| 78-87-5 | 1,2-Dichloropropane | 26.5 | 23.8 | 90 | 78-117 | |
| 75-27-4 | Bromodichloromethane | 27.8 | 25.8 | 93 | 77-120 | |
| 79-01-6 | Trichloroethene | 27.3 | 23.1 | 85 | 80-116 | |
| 123-91-1 | 1,4-Dioxane | 27.5 | 25.4 | 92 | 79-122 | |
| 80-62-6 | Methyl Methacrylate | 25.8 | 25.3 | 98 | 79-128 | |
| 142-82-5 | n-Heptane | 26.8 | 24.7 | 92 | 77-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 25.0 | 24.1 | 96 | 78-112 | |
| 108-10-1 | 4-Methyl-2-pentanone | 27.5 | 24.1 | 88 | 78-128 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 28.0 | 28.6 | 102 | 81-121 | |
| 79-00-5 | 1,1,2-Trichloroethane | 26.3 | 24.6 | 94 | 80-117 | |
| 108-88-3 | Toluene | 26.5 | 23.9 | 90 | 76-116 | |
| 591-78-6 | 2-Hexanone | 26.3 | 23.6 | 90 | 69-131 | |
| 124-48-1 | Dibromochloromethane | 27.0 | 27.0 | 100 | 80-128 | |
| 106-93-4 | 1,2-Dibromoethane | 26.3 | 25.2 | 96 | 79-122 | |
| 111-65-9 | n-Octane | 26.0 | 24.3 | 93 | 78-122 | |
| 127-18-4 | Tetrachloroethene | 26.0 | 24.0 | 92 | 77-118 | |
| 108-90-7 | Chlorobenzene | 26.5 | 24.6 | 93 | 78-117 | |

Verified By: Date: 6/4/08 **1558**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080526-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

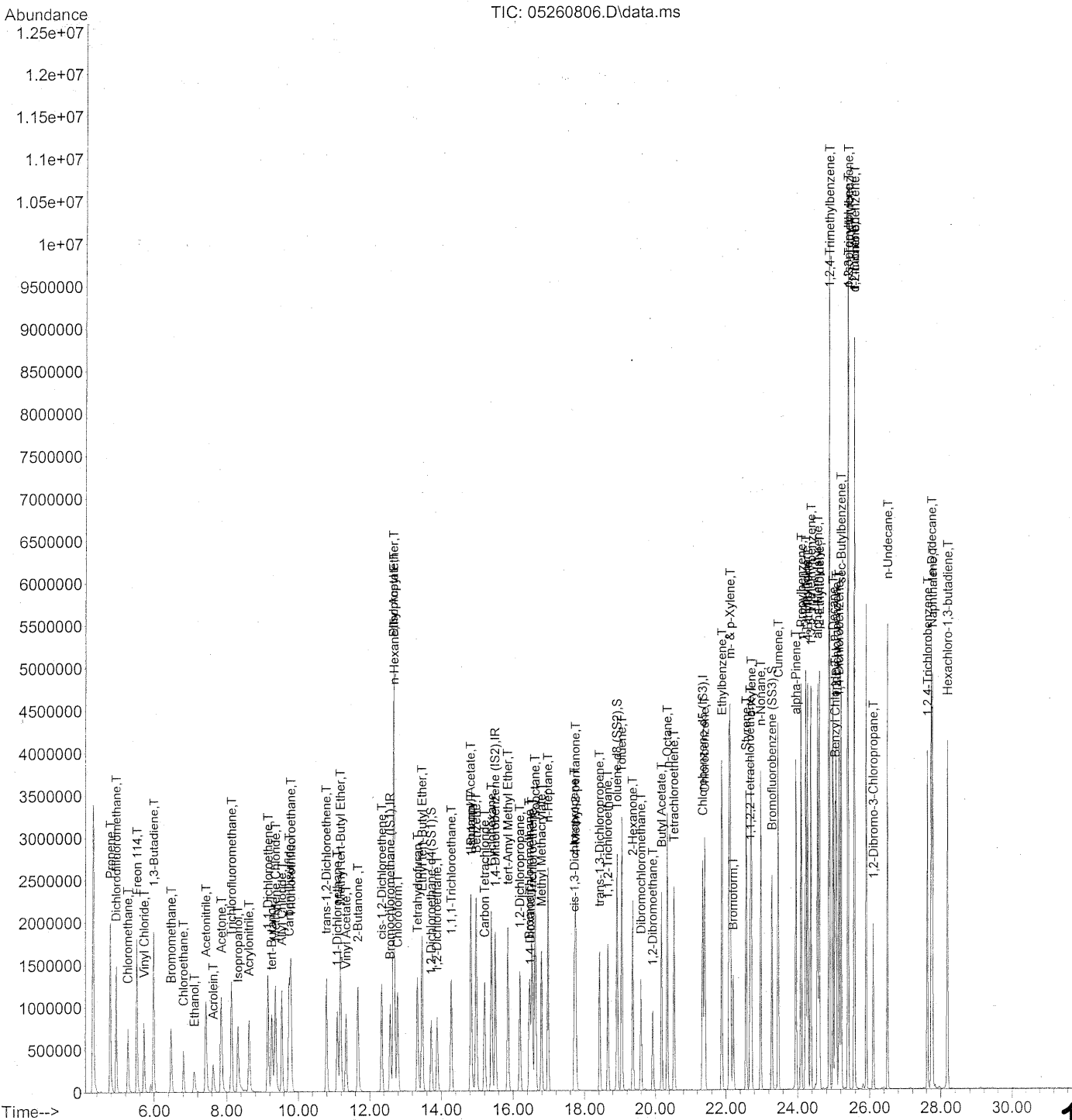
Date Collected: NA
Date Received: NA
Date Analyzed: 5/26/08
Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-------------|-------------------------------|--------------------|--------------|------------|-----------------------------|-------------------|
| 100-41-4 | Ethylbenzene | 26.3 | 24.5 | 93 | 79-116 | |
| 179601-23-1 | m,p-Xylenes | 62.5 | 58.0 | 93 | 80-117 | |
| 75-25-2 | Bromoform | 31.3 | 33.4 | 107 | 77-128 | |
| 100-42-5 | Styrene | 26.3 | 25.2 | 96 | 80-124 | |
| 95-47-6 | o-Xylene | 29.8 | 27.3 | 92 | 80-116 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 29.8 | 30.0 | 101 | 79-120 | |
| 98-82-8 | Cumene | 27.0 | 25.0 | 93 | 81-119 | |
| 103-65-1 | n-Propylbenzene | 26.3 | 24.6 | 94 | 82-120 | |
| 622-96-8 | 4-Ethyltoluene | 26.5 | 25.1 | 95 | 80-119 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 26.0 | 24.0 | 92 | 80-120 | |
| 98-83-9 | alpha-Methylstyrene | 25.5 | 24.6 | 96 | 54-146 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 26.0 | 24.7 | 95 | 80-122 | |
| 100-44-7 | Benzyl Chloride | 25.8 | 29.7 | 115 | 85-131 | |
| 541-73-1 | 1,3-Dichlorobenzene | 25.5 | 24.3 | 95 | 81-117 | |
| 106-46-7 | 1,4-Dichlorobenzene | 26.3 | 25.0 | 95 | 81-119 | |
| 135-98-8 | sec-Butylbenzene | 26.8 | 25.2 | 94 | 80-124 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 28.8 | 28.6 | 99 | 78-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 25.8 | 24.4 | 95 | 81-122 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25.8 | 27.6 | 107 | 91-136 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 26.0 | 25.3 | 97 | 75-138 | |
| 91-20-3 | Naphthalene | 26.3 | 25.1 | 95 | 76-143 | |
| 87-68-3 | Hexachlorobutadiene | 26.3 | 24.9 | 95 | 72-128 | |
| 98-06-6 | tert-Butylbenzene | 26.3 | 26.7 | 102 | 70-130 | |
| 104-51-8 | n-Butylbenzene | 26.8 | 21.7 | 81 | 70-130 | |

Verified By: CA Date: 6/4/08 **1559**

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 14:34
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-05220806
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 12:10:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1560

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260806.D
 Acq On : 26 May 2008 14:34
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 12:10:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 540353 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2242155 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1044731 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 862114 | 23.026 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 92.12% | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2327503 | 24.806 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.24% | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 972459 | 25.487 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.96% | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 936642 | 21.947 | ng | 90 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 1669273 | 21.221 | ng | 100 |
| 4) Chloromethane | 5.26 | 50 | 1103161 | 21.658 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 888757 | 22.968 | ng | 100 |
| 6) Vinyl Chloride | 5.71 | 62 | 1123774 | 22.050 | ng | 95 |
| 7) 1,3-Butadiene | 5.99 | 54 | 1098780 | 28.984 | ng | # 79 |
| 8) Bromomethane | 6.48 | 94 | 685229 | 24.143 | ng | 99 |
| 9) Chloroethane | 6.81 | 64 | 566677 | 23.407 | ng | 96 |
| 10) Ethanol | 7.11 | 45 | 561066 | 19.748 | ng | 94 |
| 11) Acetonitrile | 7.43 | 41 | 1916736 | 23.330 | ng | 97 |
| 12) Acrolein | 7.64 | 56 | 463227 | 22.824 | ng | 98 |
| 13) Acetone | 7.86 | 58 | 658223 | 22.629 | ng | # 66 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1524385 | 22.588 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 1859724m | 20.046 | ng | |
| 16) Acrylonitrile | 8.63 | 53 | 1065700 | 24.062 | ng | 99 |
| 17) 1,1-Dichloroethene | 9.15 | 96 | 735868 | 24.788 | ng | # 77 |
| 18) tert-Butanol | 9.25 | 59 | 1871878 | 23.722 | ng | 92 |
| 19) Methylene Chloride | 9.36 | 84 | 769402 | 23.668 | ng | # 78 |
| 20) Allyl Chloride | 9.54 | 41 | 1253770 | 28.904 | ng | 100 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 752981 | 24.535 | ng | 91 |
| 22) Carbon Disulfide | 9.75 | 76 | 2706757 | 21.942 | ng | 97 |
| 23) trans-1,2-Dichloroethene | 10.79 | 61 | 1162009 | 24.165 | ng | 83 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1356375 | 24.045 | ng | 96 |
| 25) Methyl tert-Butyl Ether | 11.18 | 73 | 2249599 | 23.916 | ng | 85 |
| 26) Vinyl Acetate | 11.34 | 86 | 162202 | 30.172 | ng | # 83 |
| 27) 2-Butanone | 11.67 | 72 | 508315 | 23.943 | ng | # 89 |
| 28) cis-1,2-Dichloroethene | 12.34 | 61 | 1096047 | 23.849 | ng | 83 |
| 29) Diisopropyl Ether | 12.68 | 87 | 600646 | 23.089 | ng | # 81 |
| 30) Ethyl Acetate | 12.68 | 61 | 305683 | 26.672 | ng | 78 |
| 31) n-Hexane | 12.70 | 57 | 1378393 | 23.836 | ng | 80 |

1561

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260806.D
 Acq On : 26 May 2008 14:34
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 12:10:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.79 | 83 | 1319152 | 26.772 | ng | 99 |
| 34) Tetrahydrofuran | 13.35 | 72 | 488206 | 24.054 | ng # | 91 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 849250 | 23.311 | ng # | 75 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 1053310 | 22.126 | ng | 97 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1236154 | 24.208 | ng | 96 |
| 39) Isopropyl Acetate | 14.83 | 61 | 481429 | 25.138 | ng # | 53 |
| 40) 1-Butanol | 14.84 | 56 | 674033 | 21.871 | ng # | 64 |
| 41) Benzene | 14.98 | 78 | 2839293 | 24.185 | ng | 100 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 1124810 | 24.878 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 1116051 | 24.438 | ng # | 74 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 2028633 | 24.088 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.19 | 63 | 748746 | 23.836 | ng | 99 |
| 46) Bromodichloromethane | 16.46 | 83 | 1021880 | 25.751 | ng | 99 |
| 47) Trichloroethene | 16.54 | 130 | 832978 | 23.129 | ng | 99 |
| 48) 1,4-Dioxane | 16.49 | 88 | 561648 | 25.365 | ng | 80 |
| 49) Isooctane | 16.62 | 57 | 3237976 | 24.056 | ng | 83 |
| 50) Methyl Methacrylate | 16.79 | 100 | 296609 | 25.283 | ng | 91 |
| 51) n-Heptane | 16.98 | 71 | 771892 | 24.745 | ng # | 79 |
| 52) cis-1,3-Dichloropropene | 17.72 | 75 | 1126557 | 24.140 | ng | 100 |
| 53) 4-Methyl-2-pentanone | 17.76 | 58 | 751441 | 24.108 | ng | 79 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 1150207 | 28.571 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 713644 | 24.599 | ng | 98 |
| 58) Toluene | 19.06 | 91 | 3054215 | 23.947 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 2070932 | 23.565 | ng | 84 |
| 60) Dibromochloromethane | 19.60 | 129 | 929381 | 26.979 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 842735 | 25.244 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 2270126 | 25.449 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 684805 | 24.278 | ng | 89 |
| 64) Tetrachloroethene | 20.54 | 166 | 907451 | 24.045 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 2105443 | 24.624 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 3579733 | 24.478 | ng | 95 |
| 67) m- & p-Xylene | 22.12 | 91 | 5673920 | 58.003 | ng | 93 |
| 68) Bromoform | 22.21 | 173 | 855689 | 33.381 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 2200138 | 25.161 | ng | 98 |
| 70) o-Xylene | 22.72 | 91 | 2885373 | 27.325 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1780284 | 23.744 | ng # | 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.68 | 83 | 1319773 | 29.988 | ng | 98 |
| 74) Cumene | 23.47 | 105 | 3521216 | 25.041 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1783296 | 24.527 | ng | 96 |
| 76) n-Propylbenzene | 24.10 | 91 | 4407120 | 24.631 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3641135 | 24.328 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3499858 | 25.082 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 3028612 | 24.025 | ng | 100 |

1562

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260806.D
 Acq On : 26 May 2008 14:34
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

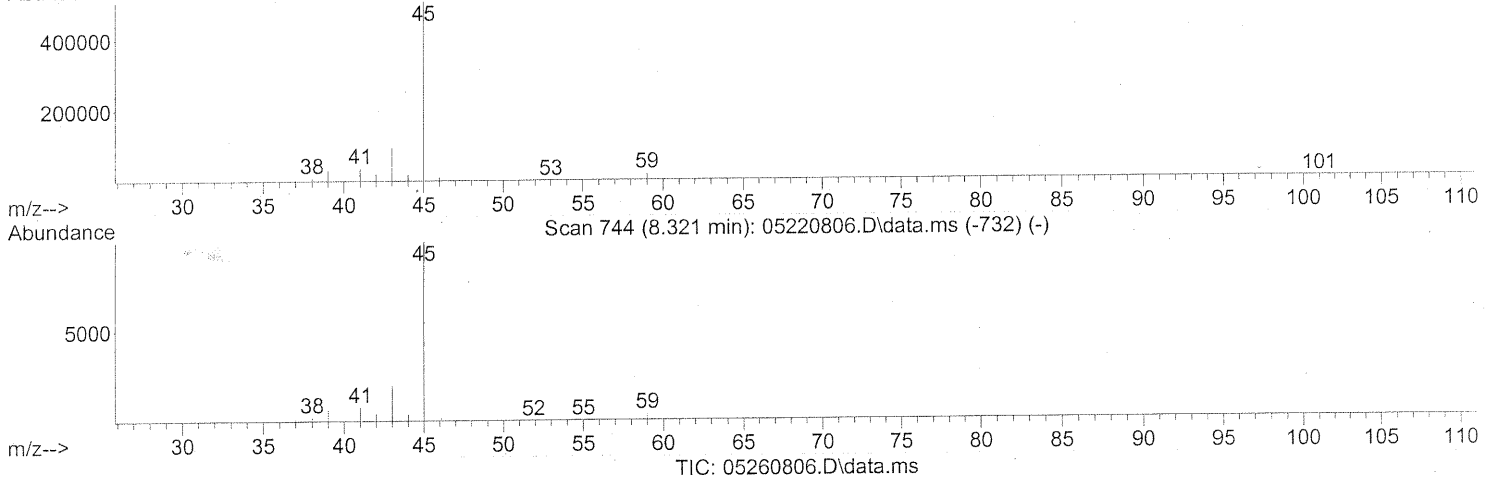
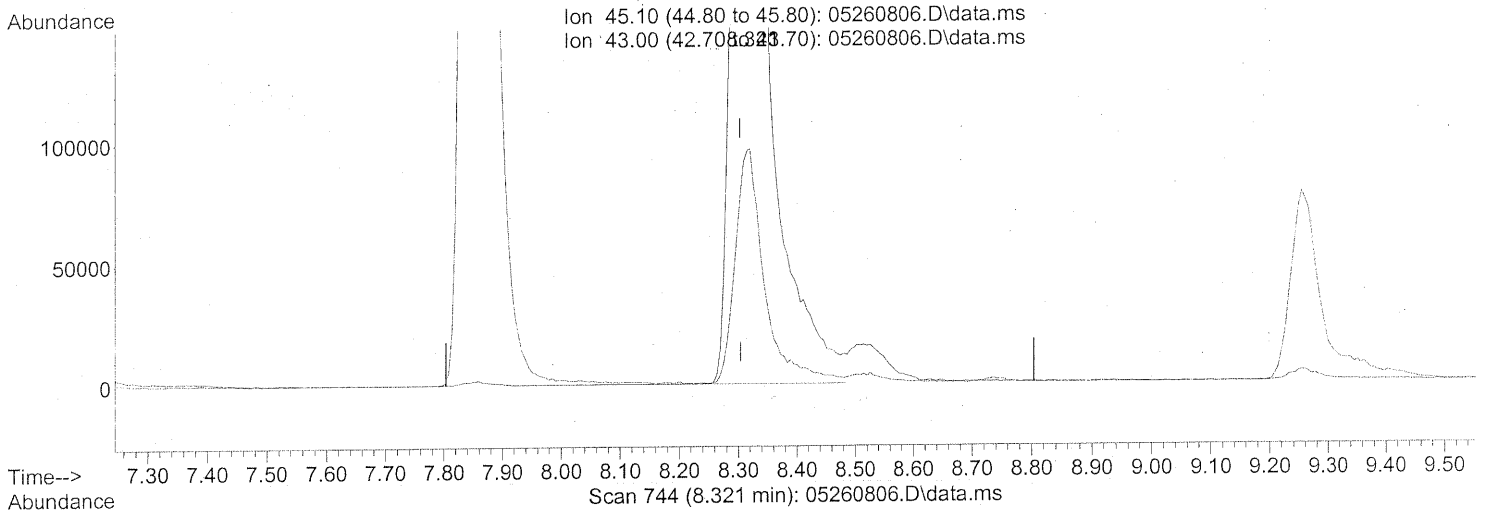
Quant Time: May 28 12:10:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1676671 | 24.567 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3566715 | 23.514 | ng | 99 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 3169829 | 24.698 | ng | 99 |
| 83) n-Decane | 24.98 | 57 | 1751965 | 24.810 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 2561450 | 29.743 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1947994 | 24.277 | ng | 99 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 1942843 | 24.976 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 4126770 | 25.157 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3855475 | 28.553 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 3336940 | 26.572 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1855420 | 24.381 | ng | 100 |
| 91) d-Limonene | 25.58 | 68 | 1233807 | 24.130 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 652971 | 27.647 | ng | 95 |
| 93) n-Undecane | 26.50 | 57 | 1849215 | 25.022 | ng | 83 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1412616 | 25.343 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 4253656 | 25.128 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1802155 | 24.520 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 925025 | 24.930 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260806.D
 Acq On : 26 May 2008 14:34
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 26 15:08:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



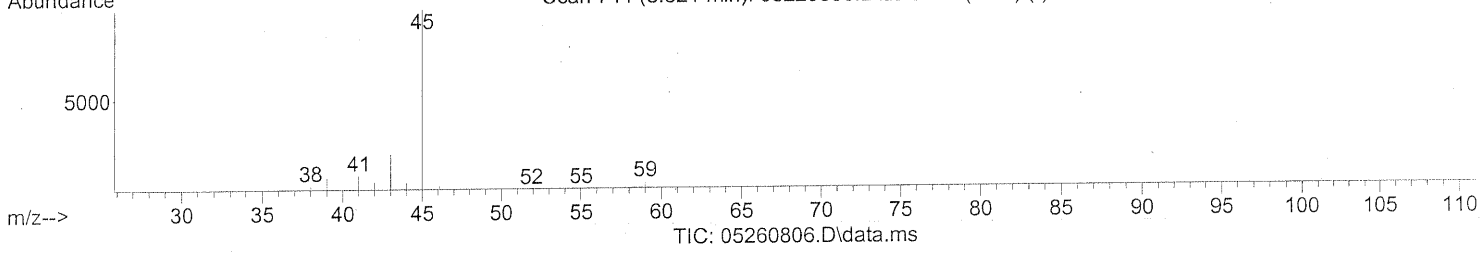
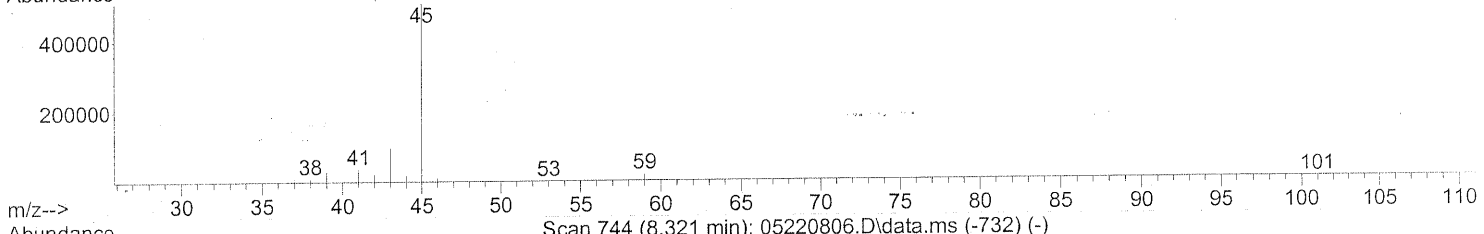
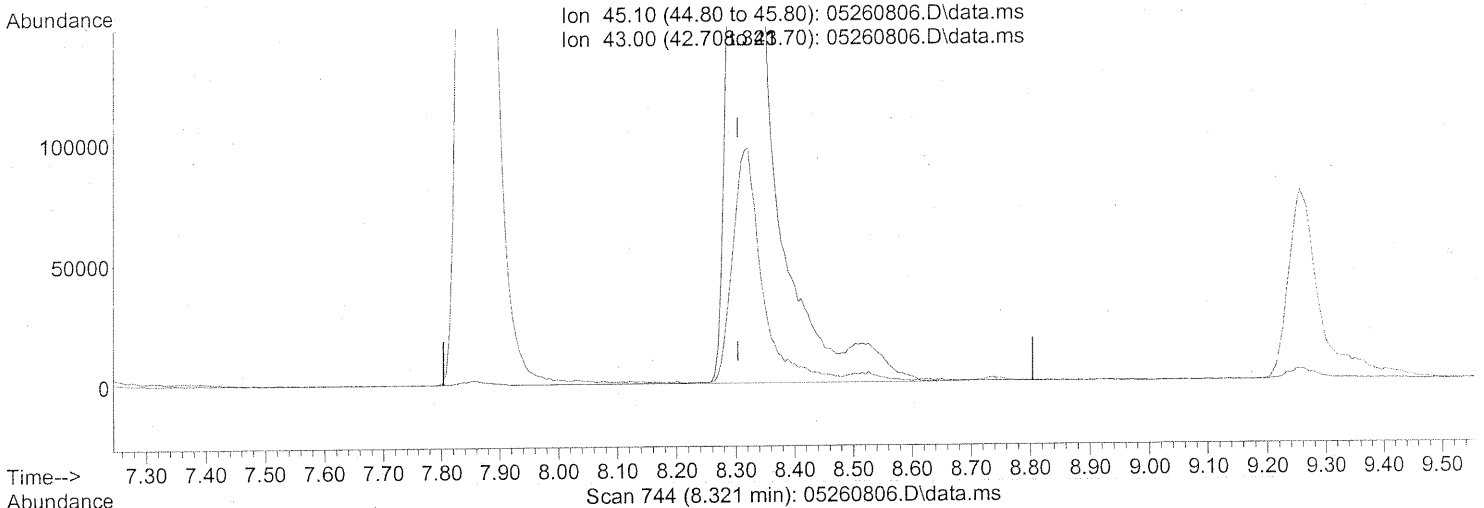
(15) Isopropanol (T)
 8.321min (+0.017) 19.28ng
 response 1788266

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 18.77 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

split peaks

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260806.D
 Acq On : 26 May 2008 14:34
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 26 15:08:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(15) Isopropanol (T)
 8.321min (+0.017) 20.05ng m
 response 1859724

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 18.05 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

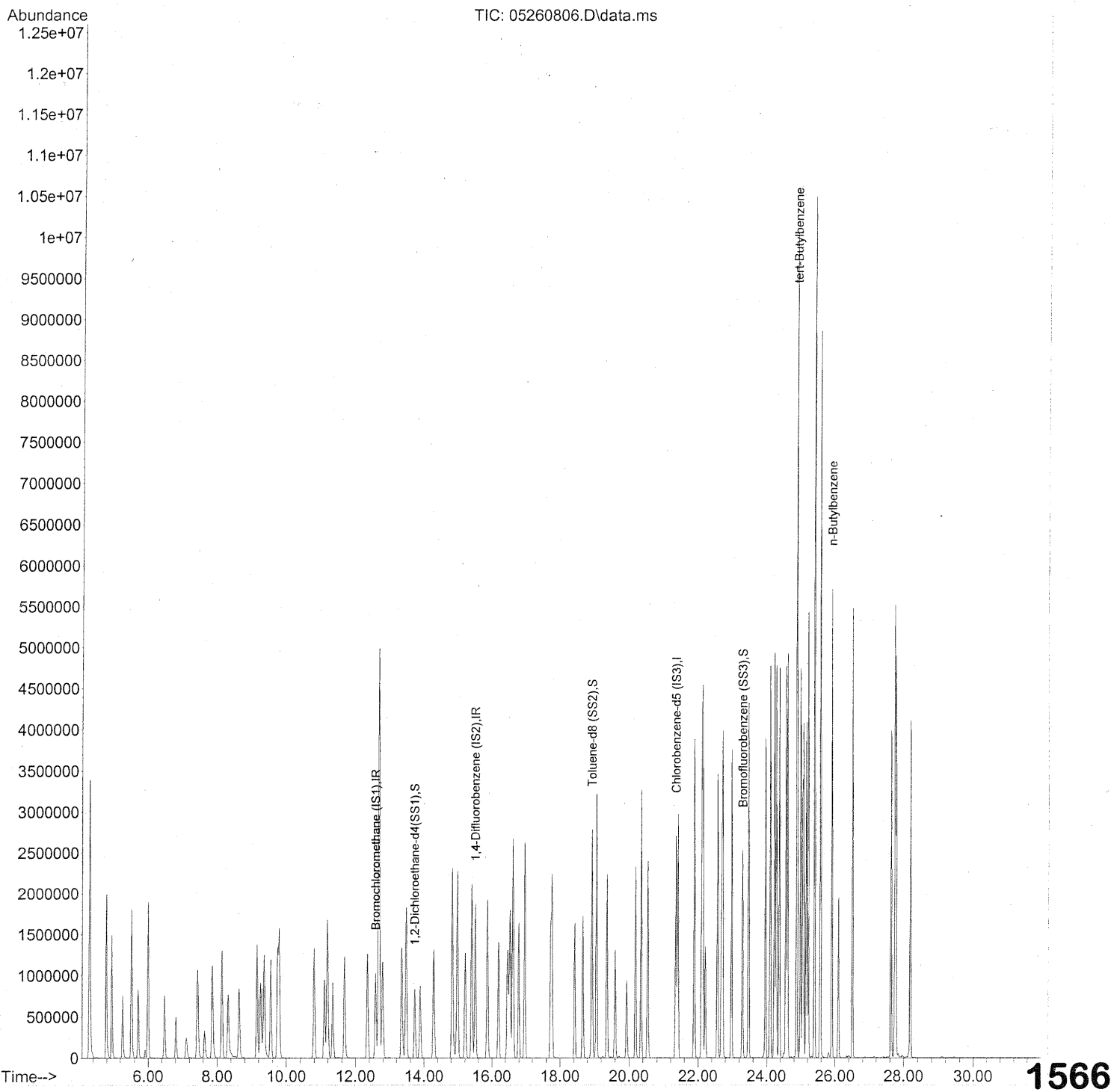
int. whole peaks

WA 5/28/08

06/02/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260806.D
 Acq On : 26 May 2008 2:34 pm
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 13:02:07 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260806.D
 Acq On : 26 May 2008 2:34 pm
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 13:02:07 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 540353 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2242155 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1044731 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 862114 | 23.026 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 92.12% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2327503 | 24.806 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 99.24% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 972459 | 25.487 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.96% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 3063013 | 24.967 | ng | 98 |
| 8) n-Butylbenzene | 25.91 | 91 | 3411507 | 25.145 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

DA 5/31/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-----------|--|--------------------|--------------|------------|-----------------------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 25.5 | 20.5 | 80 | 69-117 | |
| 74-87-3 | Chloromethane | 24.5 | 20.8 | 85 | 53-131 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 26.0 | 21.3 | 82 | 58-133 | |
| 75-01-4 | Vinyl Chloride | 24.8 | 20.8 | 84 | 61-127 | |
| 74-83-9 | Bromomethane | 25.0 | 21.8 | 87 | 67-124 | |
| 75-00-3 | Chloroethane | 25.0 | 21.6 | 86 | 69-123 | |
| 64-17-5 | Ethanol | 23.8 | 19.0 | 80 | 56-137 | |
| 67-64-1 | Acetone | 26.8 | 21.7 | 81 | 63-116 | |
| 75-69-4 | Trichlorofluoromethane | 26.3 | 22.0 | 84 | 71-120 | |
| 107-13-1 | Acrylonitrile | 25.5 | 23.5 | 92 | 74-129 | |
| 75-35-4 | 1,1-Dichloroethene | 27.8 | 24.1 | 87 | 77-116 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 25.8 | 23.6 | 91 | 35-141 | |
| 75-09-2 | Methylene Chloride | 27.8 | 22.9 | 82 | 71-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 26.8 | 28.5 | 106 | 75-127 | |
| 76-13-1 | Trichlorotrifluoroethane | 27.8 | 23.5 | 85 | 63-129 | |
| 75-15-0 | Carbon Disulfide | 25.0 | 21.5 | 86 | 72-122 | |
| 156-60-5 | trans-1,2-Dichloroethene | 26.5 | 23.7 | 89 | 74-118 | |
| 75-34-3 | 1,1-Dichloroethane | 26.8 | 23.4 | 87 | 74-118 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 26.8 | 23.4 | 87 | 72-119 | |
| 108-05-4 | Vinyl Acetate | 25.3 | 28.3 | 112 | 32-163 | |
| 78-93-3 | 2-Butanone (MEK) | 27.0 | 23.4 | 87 | 71-122 | |
| 156-59-2 | cis-1,2-Dichloroethene | 27.0 | 23.2 | 86 | 74-117 | |
| 108-20-3 | Diisopropyl Ether | 26.3 | 22.6 | 86 | 70-131 | |
| 67-66-3 | Chloroform | 29.8 | 26.3 | 88 | 72-113 | |

Verified By: CA Date: 6/4/08 **1568**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|------------|---------------------------|--------------------|--------------|------------|-----------------------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | 26.0 | 23.1 | 89 | 74-123 | |
| 107-06-2 | 1,2-Dichloroethane | 26.3 | 22.2 | 84 | 72-117 | |
| 71-55-6 | 1,1,1-Trichloroethane | 26.8 | 23.2 | 87 | 78-114 | |
| 71-43-2 | Benzene | 27.0 | 23.5 | 87 | 73-111 | |
| 56-23-5 | Carbon Tetrachloride | 26.0 | 23.9 | 92 | 78-126 | |
| 994-05-8 | tert-Amyl Methyl Ether | 26.0 | 23.5 | 90 | 81-118 | |
| 78-87-5 | 1,2-Dichloropropane | 26.5 | 23.6 | 89 | 78-117 | |
| 75-27-4 | Bromodichloromethane | 27.8 | 25.6 | 92 | 77-120 | |
| 79-01-6 | Trichloroethene | 27.3 | 22.0 | 81 | 80-116 | |
| 123-91-1 | 1,4-Dioxane | 27.5 | 24.5 | 89 | 79-122 | |
| 80-62-6 | Methyl Methacrylate | 25.8 | 24.6 | 95 | 79-128 | |
| 142-82-5 | n-Heptane | 26.8 | 24.1 | 90 | 77-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 25.0 | 23.7 | 95 | 78-112 | |
| 108-10-1 | 4-Methyl-2-pentanone | 27.5 | 23.6 | 86 | 78-128 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 28.0 | 27.6 | 99 | 81-121 | |
| 79-00-5 | 1,1,2-Trichloroethane | 26.3 | 23.6 | 90 | 80-117 | |
| 108-88-3 | Toluene | 26.5 | 23.5 | 89 | 76-116 | |
| 591-78-6 | 2-Hexanone | 26.3 | 23.3 | 89 | 69-131 | |
| 124-48-1 | Dibromochloromethane | 27.0 | 25.8 | 96 | 80-128 | |
| 106-93-4 | 1,2-Dibromoethane | 26.3 | 24.2 | 92 | 79-122 | |
| 111-65-9 | n-Octane | 26.0 | 24.0 | 92 | 78-122 | |
| 127-18-4 | Tetrachloroethene | 26.0 | 23.2 | 89 | 77-118 | |
| 108-90-7 | Chlorobenzene | 26.5 | 23.7 | 89 | 78-117 | |

Verified By: Date: 6/4/08 **1569**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080527-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

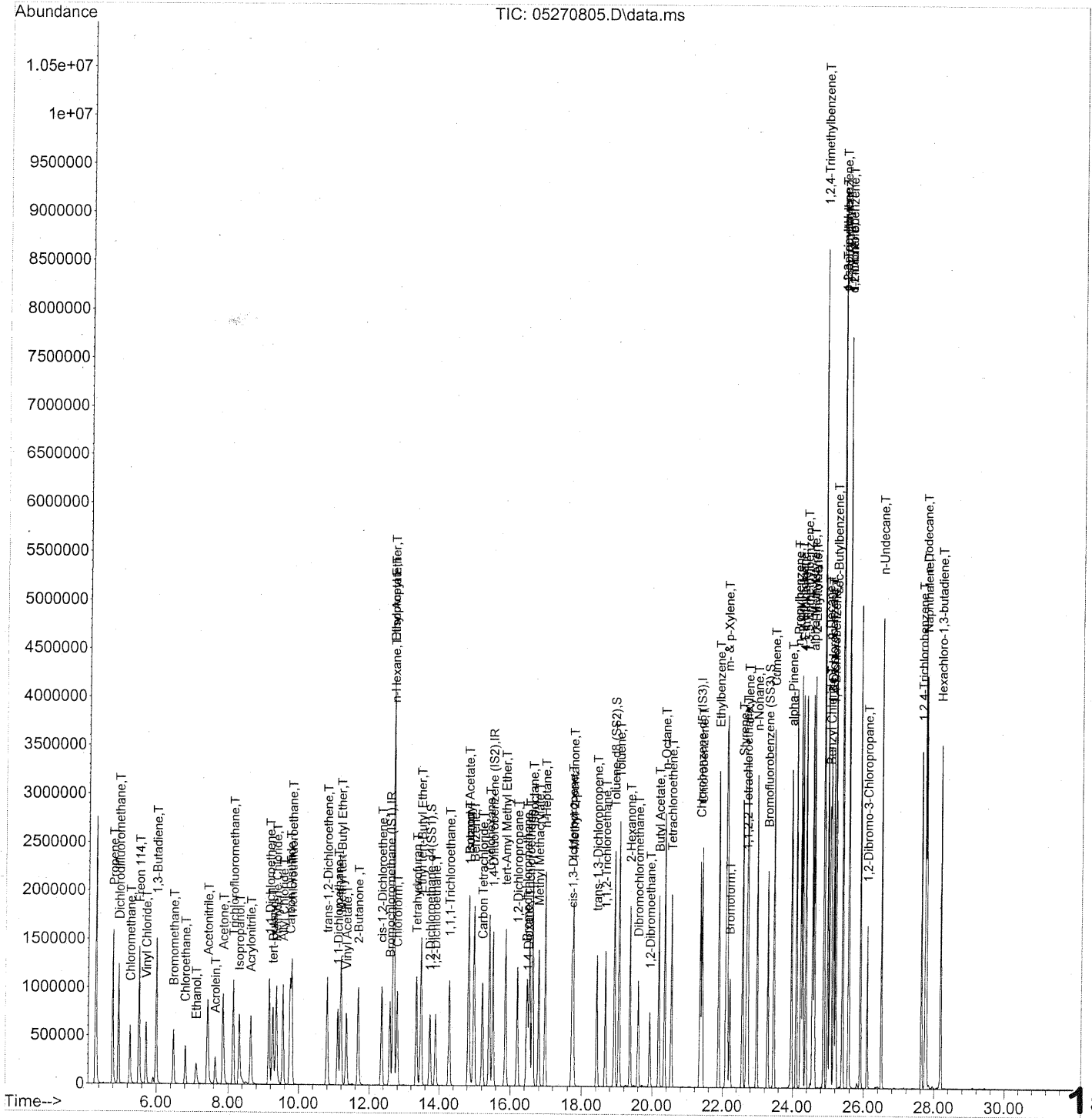
Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/27/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-------------|-------------------------------|--------------------|--------------|------------|-----------------------------|-------------------|
| 100-41-4 | Ethylbenzene | 26.3 | 23.9 | 91 | 79-116 | |
| 179601-23-1 | m,p-Xylenes | 62.5 | 57.1 | 91 | 80-117 | |
| 75-25-2 | Bromoform | 31.3 | 31.9 | 102 | 77-128 | |
| 100-42-5 | Styrene | 26.3 | 24.6 | 94 | 80-124 | |
| 95-47-6 | o-Xylene | 29.8 | 26.8 | 90 | 80-116 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 29.8 | 29.9 | 100 | 79-120 | |
| 98-82-8 | Cumene | 27.0 | 24.7 | 91 | 81-119 | |
| 103-65-1 | n-Propylbenzene | 26.3 | 24.6 | 94 | 82-120 | |
| 622-96-8 | 4-Ethyltoluene | 26.5 | 25.0 | 94 | 80-119 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 26.0 | 23.9 | 92 | 80-120 | |
| 98-83-9 | alpha-Methylstyrene | 25.5 | 24.5 | 96 | 54-146 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 26.0 | 24.8 | 95 | 80-122 | |
| 100-44-7 | Benzyl Chloride | 25.8 | 29.4 | 114 | 85-131 | |
| 541-73-1 | 1,3-Dichlorobenzene | 25.5 | 24.0 | 94 | 81-117 | |
| 106-46-7 | 1,4-Dichlorobenzene | 26.3 | 24.7 | 94 | 81-119 | |
| 135-98-8 | sec-Butylbenzene | 26.8 | 25.1 | 94 | 80-124 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 28.8 | 28.7 | 100 | 78-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 25.8 | 24.4 | 95 | 81-122 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25.8 | 27.8 | 108 | 91-136 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 26.0 | 25.2 | 97 | 75-138 | |
| 91-20-3 | Naphthalene | 26.3 | 25.6 | 97 | 76-143 | |
| 87-68-3 | Hexachlorobutadiene | 26.3 | 24.5 | 93 | 72-128 | |
| 98-06-6 | tert-Butylbenzene | 26.3 | 25.1 | 95 | 70-130 | |
| 104-51-8 | n-Butylbenzene | 26.8 | 25.6 | 96 | 70-130 | |

Verified By: Date: 6/4/08 **1570**

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270805.D
Acq On : 27 May 2008 11:38
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-05220806
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 10:27:21 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1571

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 10:27:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 443735 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1884243 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 889366 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---------------------------------|--------|-----|----------|-----------|----|------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 732945 | 23.839 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 95.36% | | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2021972 | 25.315 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 101.24% | | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 832011 | 25.616 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 102.48% | | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 737006 | 21.030 | ng | 89 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 1324624 | 20.506 | ng | 99 |
| 4) Chloromethane | 5.27 | 50 | 871124 | 20.826 | ng | 98 |
| 5) Freon 114 | 5.52 | 135 | 678295 | 21.346 | ng | 100 |
| 6) Vinyl Chloride | 5.72 | 62 | 871418 | 20.821 | ng | 95 |
| 7) 1,3-Butadiene | 6.00 | 54 | 857217 | 27.535 | ng | # 78 |
| 8) Bromomethane | 6.48 | 94 | 507425 | 21.771 | ng | 100 |
| 9) Chloroethane | 6.81 | 64 | 429088 | 21.583 | ng | 95 |
| 10) Ethanol | 7.11 | 45 | 444359m | 19.046 | ng | |
| 11) Acetonitrile | 7.43 | 41 | 1504419 | 22.298 | ng | 96 |
| 12) Acrolein | 7.64 | 56 | 365339 | 21.920 | ng | 98 |
| 13) Acetone | 7.86 | 58 | 517975 | 21.684 | ng | # 63 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1218011 | 21.978 | ng | 99 |
| 15) Isopropanol | 8.32 | 45 | 1549352m | 20.337 | ng | |
| 16) Acrylonitrile | 8.63 | 53 | 854575 | 23.496 | ng | 99 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 586645 | 24.064 | ng | # 79 |
| 18) tert-Butanol | 9.26 | 59 | 1528227 | 23.584 | ng | 95 |
| 19) Methylene Chloride | 9.36 | 84 | 611623 | 22.911 | ng | # 81 |
| 20) Allyl Chloride | 9.55 | 41 | 1014234 | 28.473 | ng | 99 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 591094 | 23.453 | ng | 93 |
| 22) Carbon Disulfide | 9.76 | 76 | 2174352 | 21.464 | ng | 97 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 933902 | 23.650 | ng | 84 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1086203 | 23.449 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 1804346 | 23.359 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 124912 | 28.295 | ng | # 91 |
| 27) 2-Butanone | 11.68 | 72 | 408134 | 23.410 | ng | 95 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 875412 | 23.196 | ng | 83 |
| 29) Diisopropyl Ether | 12.69 | 87 | 482183 | 22.571 | ng | # 88 |
| 30) Ethyl Acetate | 12.69 | 61 | 242814 | 25.800 | ng | 76 |
| 31) n-Hexane | 12.70 | 57 | 1138181 | 23.967 | ng | 1572 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 10:27:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.79 | 83 | 1062188 | 26.251 | ng | 99 |
| 34) Tetrahydrofuran | 13.35 | 72 | 398418 | 23.904 | ng | 93 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 691656 | 23.119 | ng | # 75 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 869496 | 22.242 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 997531 | 23.246 | ng | 97 |
| 39) Isopropyl Acetate | 14.83 | 61 | 399805 | 24.841 | ng | # 48 |
| 40) 1-Butanol | 14.84 | 56 | 548344 | 21.172 | ng | # 60 |
| 41) Benzene | 14.99 | 78 | 2316805 | 23.483 | ng | 100 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 909696 | 23.942 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 898391 | 23.408 | ng | # 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1662824 | 23.495 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 623833 | 23.632 | ng | 99 |
| 46) Bromodichloromethane | 16.46 | 83 | 852409 | 25.560 | ng | 100 |
| 47) Trichloroethene | 16.54 | 130 | 666568 | 22.024 | ng | 98 |
| 48) 1,4-Dioxane | 16.49 | 88 | 455515 | 24.479 | ng | 81 |
| 49) Isooctane | 16.62 | 57 | 2638780 | 23.328 | ng | 81 |
| 50) Methyl Methacrylate | 16.79 | 100 | 242933 | 24.641 | ng | 89 |
| 51) n-Heptane | 16.98 | 71 | 630468 | 24.050 | ng | # 80 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 929640 | 23.705 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 619169 | 23.637 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 935126 | 27.641 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 575315 | 23.598 | ng | 97 |
| 58) Toluene | 19.07 | 91 | 2554567 | 23.528 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 1742329 | 23.289 | ng | 83 |
| 60) Dibromochloromethane | 19.60 | 129 | 755334 | 25.757 | ng | 98 |
| 61) 1,2-Dibromoethane | 19.94 | 107 | 687162 | 24.179 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 1905922 | 25.099 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 576520 | 24.010 | ng | 90 |
| 64) Tetrachloroethene | 20.54 | 166 | 744368 | 23.170 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 1726345 | 23.717 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 2977224 | 23.914 | ng | 95 |
| 67) m- & p-Xylene | 22.13 | 91 | 4757988 | 57.136 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 696675 | 31.926 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 1829658 | 24.579 | ng | 98 |
| 70) o-Xylene | 22.72 | 91 | 2413549 | 26.849 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1527943 | 23.938 | ng | # 83 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 1120474 | 29.907 | ng | 98 |
| 74) Cumene | 23.47 | 105 | 2956483 | 24.698 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1499266 | 24.223 | ng | 96 |
| 76) n-Propylbenzene | 24.10 | 91 | 3753446 | 24.643 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3074068 | 24.127 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 2964922 | 24.960 | ng | 99 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 2561376 | 23.868 | ng | 100 |

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Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

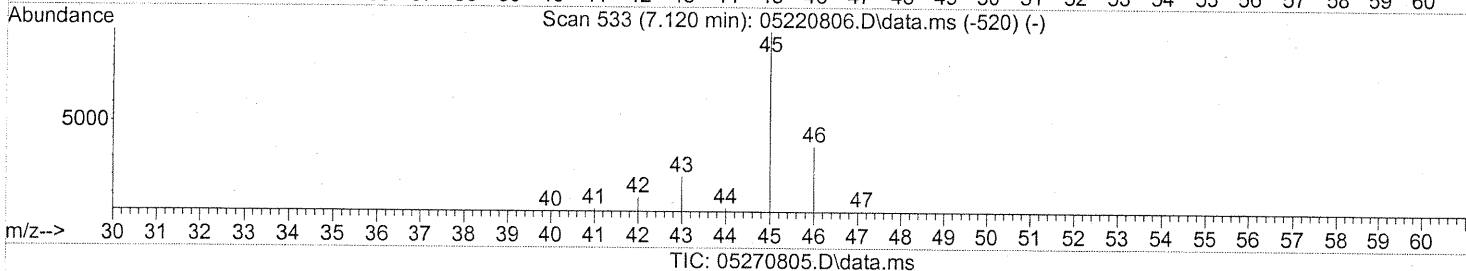
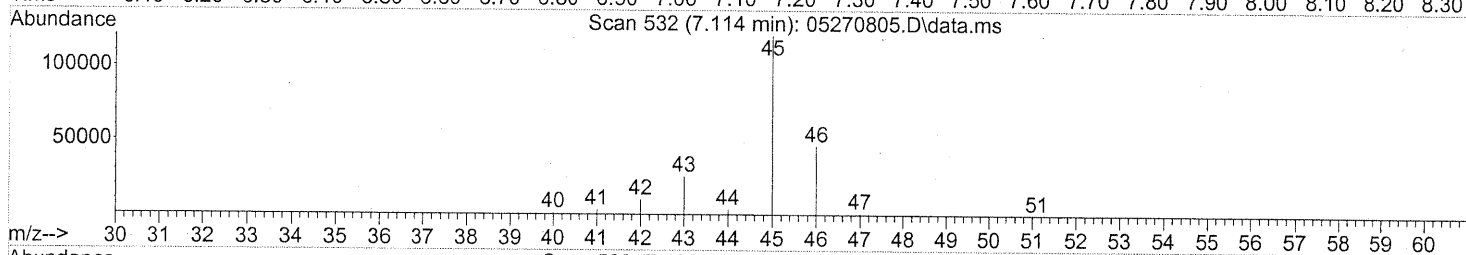
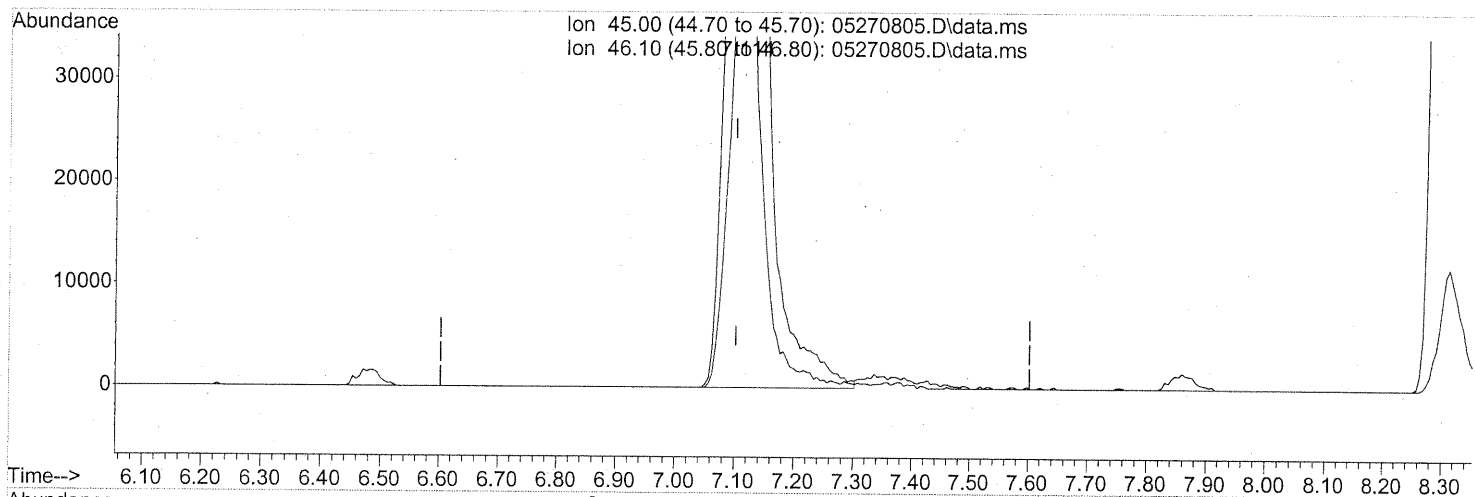
Quant Time: May 31 10:27:21 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1421520 | 24.467 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3040989 | 23.550 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 2711907 | 24.821 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 1510740 | 25.132 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 2152000 | 29.354 | ng | 98 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1641458 | 24.030 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1635626 | 24.700 | ng | 100 |
| 87) sec-Butylbenzene | 25.21 | 105 | 3511008 | 25.142 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3302450 | 28.730 | ng | 95 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 2864991 | 26.799 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1577926 | 24.357 | ng | 100 |
| 91) d-Limonene | 25.58 | 68 | 1065359 | 24.475 | ng | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 558559 | 27.781 | ng | 94 |
| 93) n-Undecane | 26.50 | 57 | 1604062 | 25.496 | ng | 84 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1195452 | 25.194 | ng | 95 |
| 95) Naphthalene | 27.77 | 128 | 3691477 | 25.616 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1579856 | 25.251 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 775076 | 24.538 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 12:30:16 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



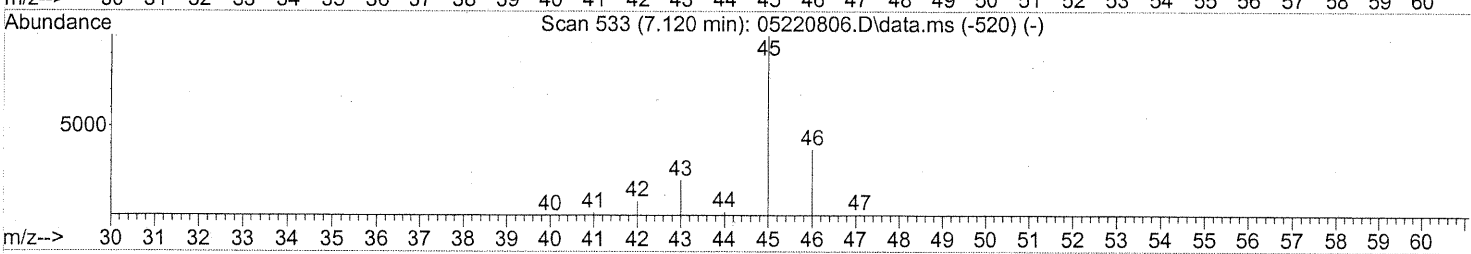
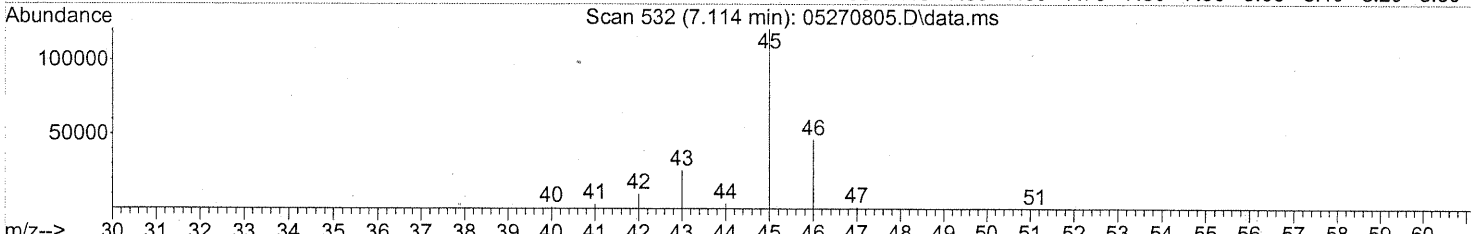
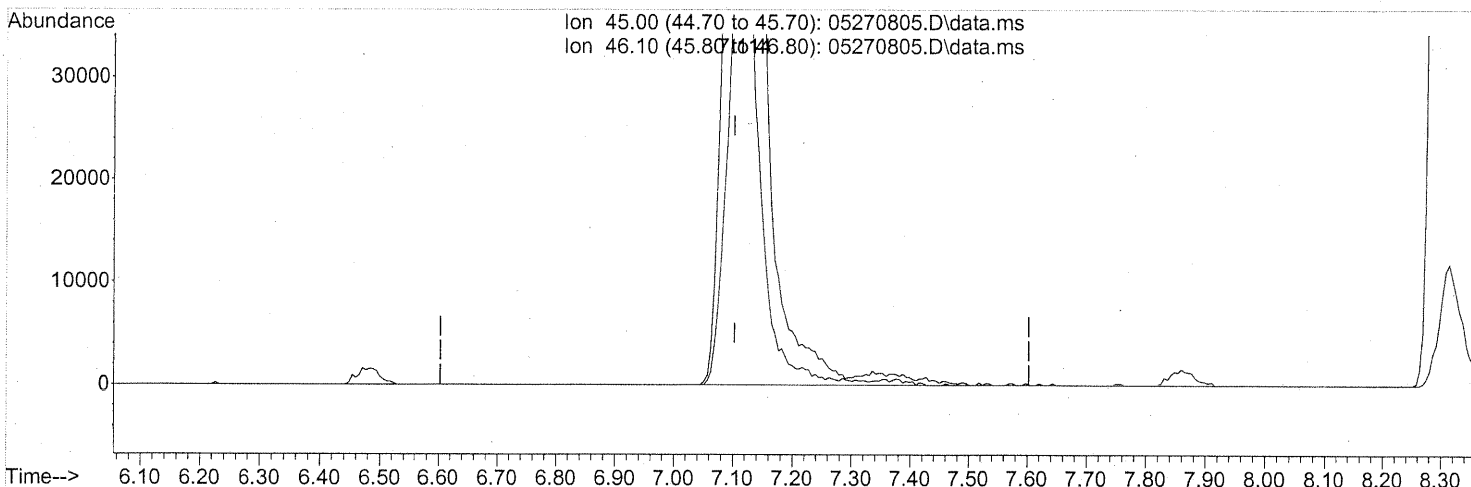
(10) Ethanol (T)
 7.114min (+0.011) 18.70ng
 response 436346

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.75 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

tailing

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 12:30:16 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.114min (+0.011) 19.05ng m

response 444359

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.07 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

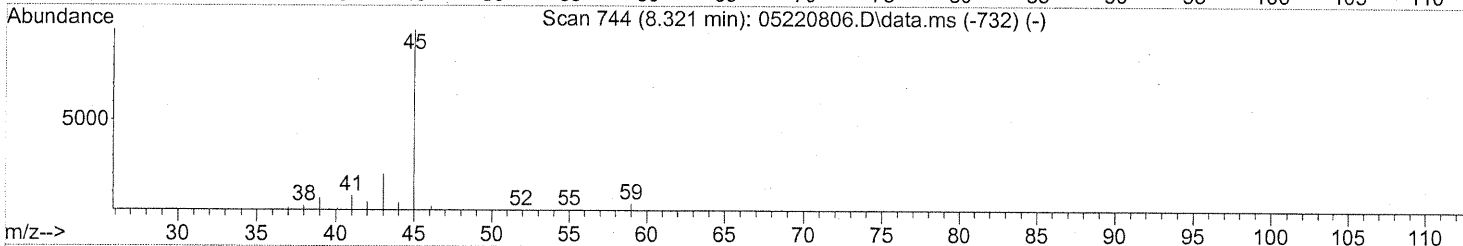
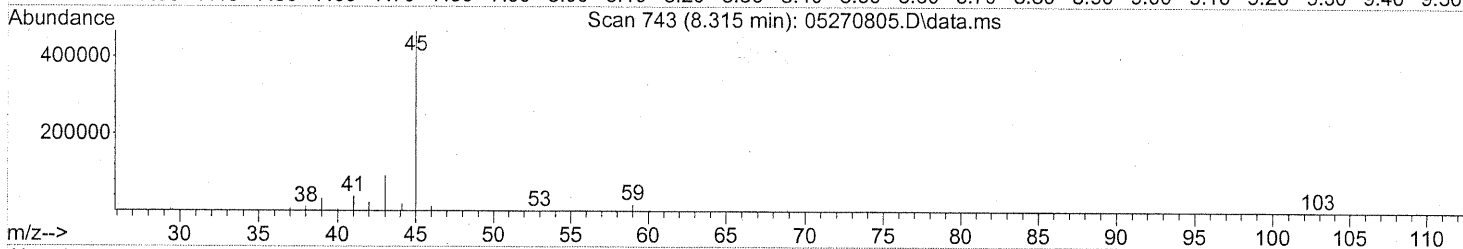
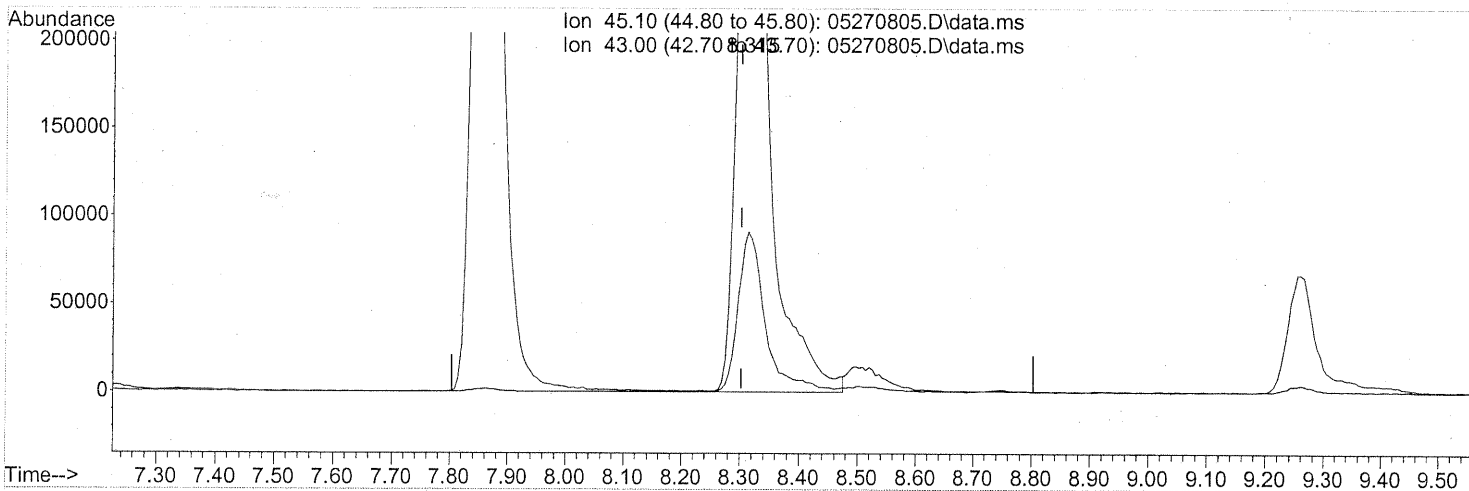
incl. tailing
WA 5/31/08

F 05/02/08

1576

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 12:30:16 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270805.D\data.ms

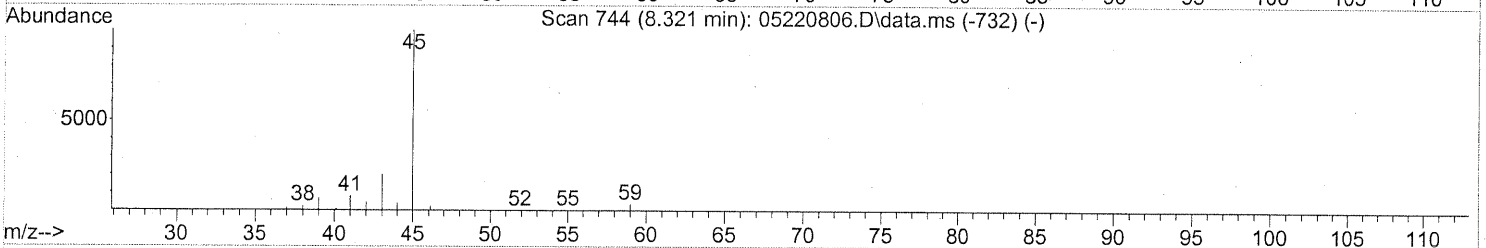
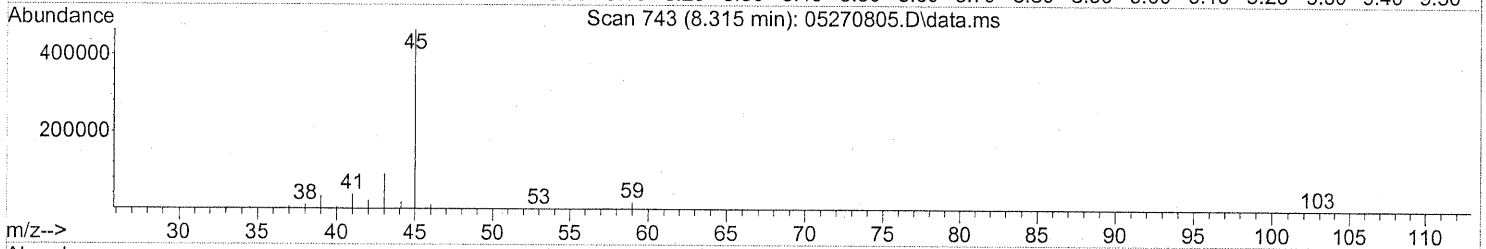
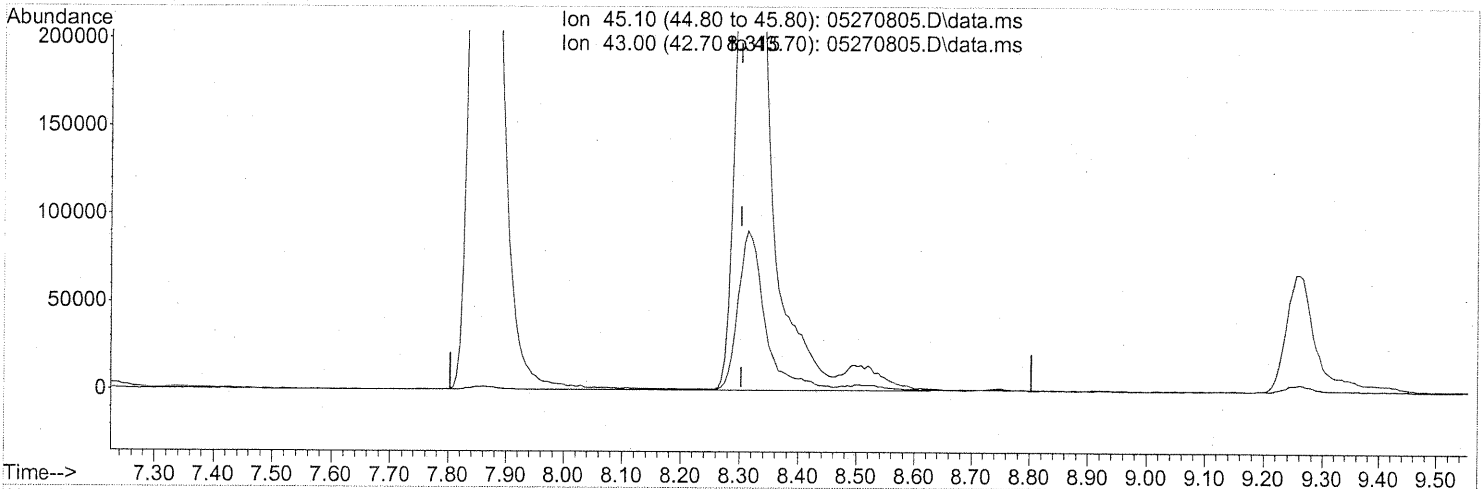
(15) Isopropanol (T)
 8.315min (+0.011) 19.50ng
 response 1485864

split tailing

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 19.13 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 12:30:16 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(15) Isopropanol (T)
 8.315min (+0.011) 20.34ng m
 response 1549352

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 18.35 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

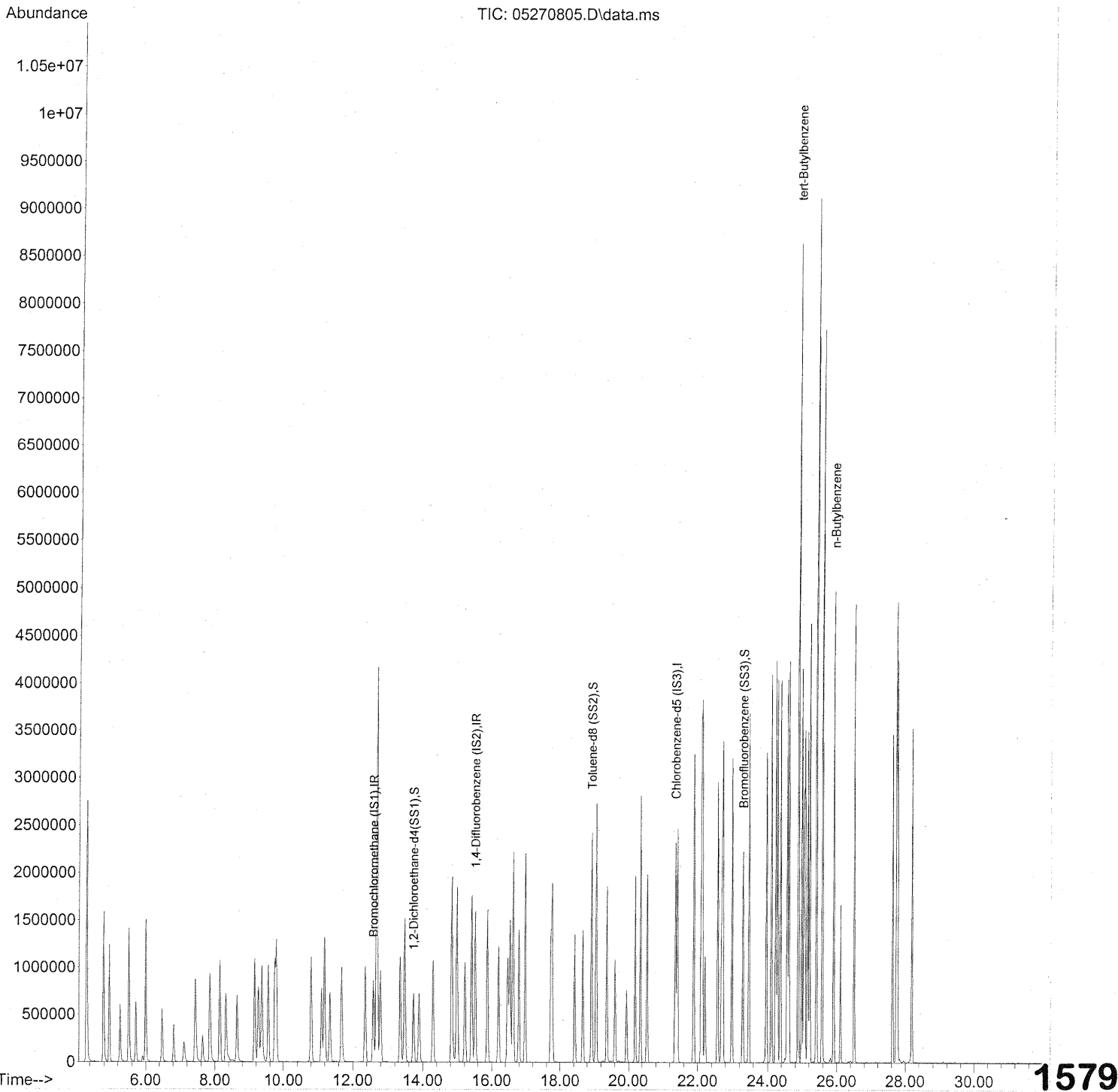
int. whole peaks
WA 5/27/08

5/26/08

1578

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38 am
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 13:12:31 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270805.D
 Acq On : 27 May 2008 11:38 am
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 13:12:31 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 443735 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1884243 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 889366 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 732945 | 23.839 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 95.36% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2021972 | 25.315 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 101.24% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 832011 | 25.616 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.48% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 2619235 | 25.079 | ng | 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 2959702 | 25.626 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

WA 5/31/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-----------|--|--------------------|--------------|------------|-----------------------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 25.5 | 20.7 | 81 | 69-117 | |
| 74-87-3 | Chloromethane | 24.5 | 20.2 | 82 | 53-131 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 26.0 | 21.0 | 81 | 58-133 | |
| 75-01-4 | Vinyl Chloride | 24.8 | 20.4 | 82 | 61-127 | |
| 74-83-9 | Bromomethane | 25.0 | 22.0 | 88 | 67-124 | |
| 75-00-3 | Chloroethane | 25.0 | 22.0 | 88 | 69-123 | |
| 64-17-5 | Ethanol | 23.8 | 18.5 | 78 | 56-137 | |
| 67-64-1 | Acetone | 26.8 | 21.6 | 81 | 63-116 | |
| 75-69-4 | Trichlorofluoromethane | 26.3 | 21.9 | 83 | 71-120 | |
| 107-13-1 | Acrylonitrile | 25.5 | 23.1 | 91 | 74-129 | |
| 75-35-4 | 1,1-Dichloroethene | 27.8 | 24.3 | 87 | 77-116 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 25.8 | 23.6 | 91 | 35-141 | |
| 75-09-2 | Methylene Chloride | 27.8 | 22.8 | 82 | 71-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 26.8 | 28.4 | 106 | 75-127 | |
| 76-13-1 | Trichlorotrifluoroethane | 27.8 | 24.1 | 87 | 63-129 | |
| 75-15-0 | Carbon Disulfide | 25.0 | 21.6 | 86 | 72-122 | |
| 156-60-5 | trans-1,2-Dichloroethene | 26.5 | 23.4 | 88 | 74-118 | |
| 75-34-3 | 1,1-Dichloroethane | 26.8 | 23.3 | 87 | 74-118 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 26.8 | 23.3 | 87 | 72-119 | |
| 108-05-4 | Vinyl Acetate | 25.3 | 30.2 | 119 | 32-163 | |
| 78-93-3 | 2-Butanone (MEK) | 27.0 | 23.1 | 86 | 71-122 | |
| 156-59-2 | cis-1,2-Dichloroethene | 27.0 | 22.9 | 85 | 74-117 | |
| 108-20-3 | Diisopropyl Ether | 26.3 | 22.3 | 85 | 70-131 | |
| 67-66-3 | Chloroform | 29.8 | 25.8 | 87 | 72-113 | |

Verified By:

Date: 6/4/08

1581

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS | Data Qualifier |
|------------|---------------------------|--------------------|--------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 637-92-3 | Ethyl tert-Butyl Ether | 26.0 | 22.9 | 88 | 74-123 | |
| 107-06-2 | 1,2-Dichloroethane | 26.3 | 21.4 | 81 | 72-117 | |
| 71-55-6 | 1,1,1-Trichloroethane | 26.8 | 23.8 | 89 | 78-114 | |
| 71-43-2 | Benzene | 27.0 | 23.9 | 89 | 73-111 | |
| 56-23-5 | Carbon Tetrachloride | 26.0 | 24.6 | 95 | 78-126 | |
| 994-05-8 | tert-Amyl Methyl Ether | 26.0 | 23.9 | 92 | 81-118 | |
| 78-87-5 | 1,2-Dichloropropane | 26.5 | 23.5 | 89 | 78-117 | |
| 75-27-4 | Bromodichloromethane | 27.8 | 25.8 | 93 | 77-120 | |
| 79-01-6 | Trichloroethene | 27.3 | 22.7 | 83 | 80-116 | |
| 123-91-1 | 1,4-Dioxane | 27.5 | 25.3 | 92 | 79-122 | |
| 80-62-6 | Methyl Methacrylate | 25.8 | 25.2 | 98 | 79-128 | |
| 142-82-5 | n-Heptane | 26.8 | 24.1 | 90 | 77-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 25.0 | 24.1 | 96 | 78-112 | |
| 108-10-1 | 4-Methyl-2-pentanone | 27.5 | 23.9 | 87 | 78-128 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 28.0 | 28.3 | 101 | 81-121 | |
| 79-00-5 | 1,1,2-Trichloroethane | 26.3 | 24.3 | 92 | 80-117 | |
| 108-88-3 | Toluene | 26.5 | 23.6 | 89 | 76-116 | |
| 591-78-6 | 2-Hexanone | 26.3 | 23.0 | 87 | 69-131 | |
| 124-48-1 | Dibromochloromethane | 27.0 | 26.4 | 98 | 80-128 | |
| 106-93-4 | 1,2-Dibromoethane | 26.3 | 24.5 | 93 | 79-122 | |
| 111-65-9 | n-Octane | 26.0 | 23.6 | 91 | 78-122 | |
| 127-18-4 | Tetrachloroethene | 26.0 | 23.7 | 91 | 77-118 | |
| 108-90-7 | Chlorobenzene | 26.5 | 24.0 | 91 | 78-117 | |

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080528-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

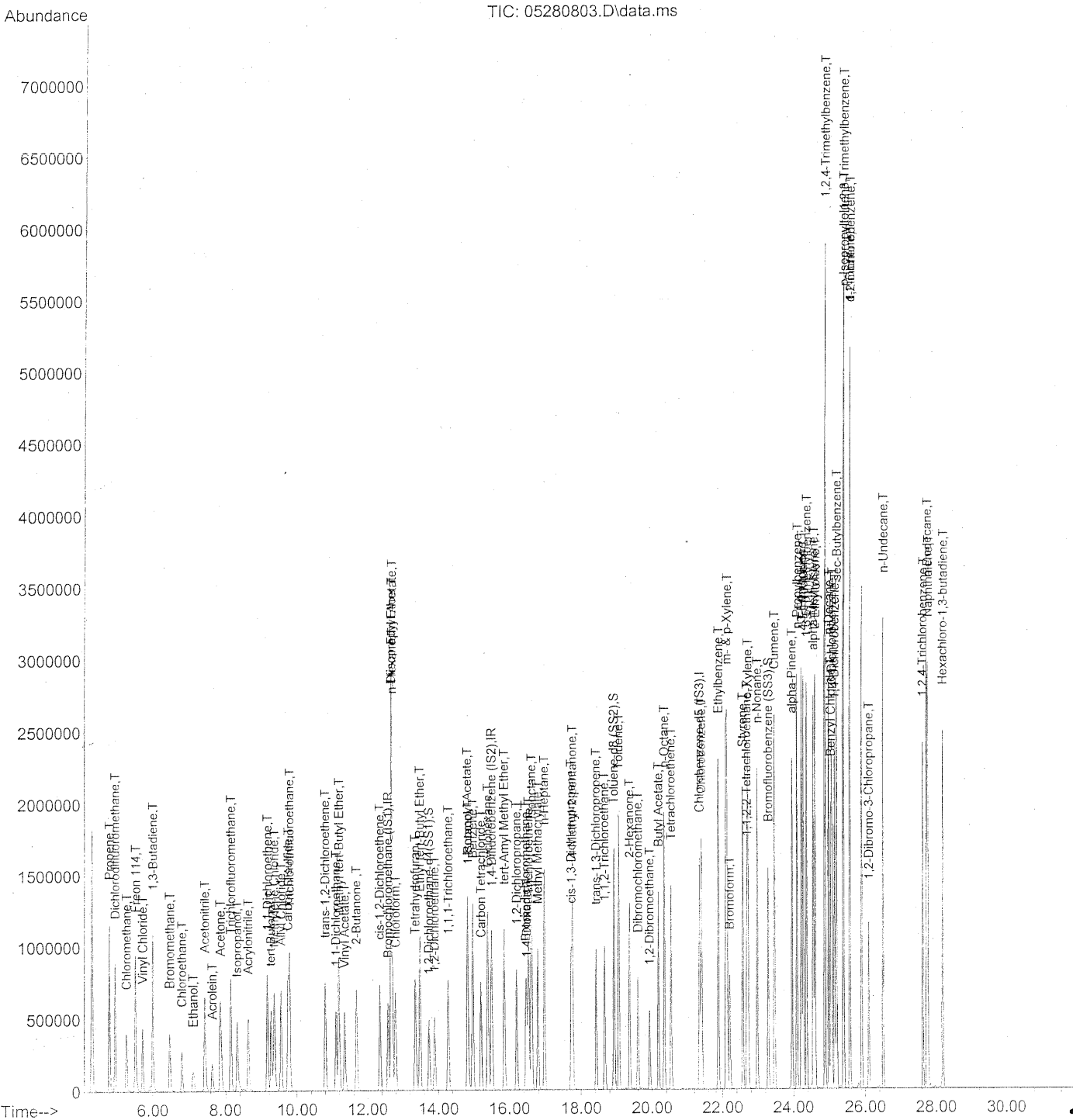
Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/28/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS | Data Qualifier |
|-------------|-------------------------------|--------------------|--------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 100-41-4 | Ethylbenzene | 26.3 | 24.0 | 91 | 79-116 | |
| 179601-23-1 | m,p-Xylenes | 62.5 | 57.1 | 91 | 80-117 | |
| 75-25-2 | Bromoform | 31.3 | 32.9 | 105 | 77-128 | |
| 100-42-5 | Styrene | 26.3 | 24.6 | 94 | 80-124 | |
| 95-47-6 | o-Xylene | 29.8 | 26.8 | 90 | 80-116 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 29.8 | 29.7 | 100 | 79-120 | |
| 98-82-8 | Cumene | 27.0 | 24.6 | 91 | 81-119 | |
| 103-65-1 | n-Propylbenzene | 26.3 | 24.3 | 92 | 82-120 | |
| 622-96-8 | 4-Ethyltoluene | 26.5 | 24.6 | 93 | 80-119 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 26.0 | 23.6 | 91 | 80-120 | |
| 98-83-9 | alpha-Methylstyrene | 25.5 | 23.9 | 94 | 54-146 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 26.0 | 24.3 | 93 | 80-122 | |
| 100-44-7 | Benzyl Chloride | 25.8 | 29.2 | 113 | 85-131 | |
| 541-73-1 | 1,3-Dichlorobenzene | 25.5 | 23.8 | 93 | 81-117 | |
| 106-46-7 | 1,4-Dichlorobenzene | 26.3 | 24.4 | 93 | 81-119 | |
| 135-98-8 | sec-Butylbenzene | 26.8 | 24.7 | 92 | 80-124 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 28.8 | 28.1 | 98 | 78-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 25.8 | 23.9 | 93 | 81-122 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25.8 | 27.8 | 108 | 91-136 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 26.0 | 25.2 | 97 | 75-138 | |
| 91-20-3 | Naphthalene | 26.3 | 25.3 | 96 | 76-143 | |
| 87-68-3 | Hexachlorobutadiene | 26.3 | 24.9 | 95 | 72-128 | |
| 98-06-6 | tert-Butylbenzene | 26.3 | 24.5 | 93 | 70-130 | |
| 104-51-8 | n-Butylbenzene | 26.8 | 24.9 | 93 | 70-130 | |

Verified By: Date: 6/4/08 **1583**

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280803.D
 Acq On : 28 May 2008 8:51
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 21:02:42 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280803.D
 Acq On : 28 May 2008 8:51
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 21:02:42 2008
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 324220 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 1332376 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 629262 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------------|-------|------|----------|------------|-------|----------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 509188 | 22.666 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | | 90.68% |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1414049 | 25.021 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | | 100.08% |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 597816 | 26.013 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | | 104.04% |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 545427 | 21.300 | ng | 91 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 977702 | 20.715 | ng | 100 |
| 4) Chloromethane | 5.28 | 50 | 616373 | 20.168 | ng | 96 |
| 5) Freon 114 | 5.53 | 135 | 488693 | 21.048 | ng | 99 |
| 6) Vinyl Chloride | 5.72 | 62 | 623471 | 20.388 | ng | 96 |
| 7) 1,3-Butadiene | 6.00 | 54 | 600374 | 26.394 | ng | # 80 |
| 8) Bromomethane | 6.48 | 94 | 374052 | 21.964 | ng | 99 |
| 9) Chloroethane | 6.82 | 64 | 319709 | 22.009 | ng | 96 |
| 10) Ethanol | 7.12 | 45 | 316102m | 18.543 | ng | |
| 11) Acetonitrile | 7.43 | 41 | 1095954 | 22.232 | ng | 96 |
| 12) Acrolein | 7.64 | 56 | 266711 | 21.902 | ng | 98 |
| 13) Acetone | 7.86 | 58 | 377742 | 21.643 | ng | # 66 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 888247 | 21.935 | ng | 99 |
| 15) Isopropanol | 8.32 | 45 | 1124608m | 20.204 | ng | |
| 16) Acrylonitrile | 8.63 | 53 | 614351 | 23.118 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 432825 | 24.299 | ng | # 77 |
| 18) tert-Butanol | 9.26 | 59 | 1115608 | 23.563 | ng | 93 |
| 19) Methylene Chloride | 9.36 | 84 | 443771 | 22.751 | ng | # 79 |
| 20) Allyl Chloride | 9.55 | 41 | 739181 | 28.401 | ng | 100 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 444432 | 24.134 | ng | 92 |
| 22) Carbon Disulfide | 9.76 | 76 | 1598854 | 21.601 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 674060 | 23.362 | ng | 83 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 787882 | 23.278 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 1315231 | 23.303 | ng | 85 |
| 26) Vinyl Acetate | 11.35 | 86 | 97306 | 30.167 | ng | # 83 |
| 27) 2-Butanone | 11.68 | 72 | 294431 | 23.113 | ng | # 89 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 632723 | 22.946 | ng | 81 |
| 29) Diisopropyl Ether | 12.68 | 87 | 347808 | 22.282 | ng | # 81 |
| 30) Ethyl Acetate | 12.69 | 61 | 171857 | 24.992 | ng | 75 |
| 31) n-Hexane | 12.70 | 57 | 798499 | 23.013 | ng | 88 |

1585

5/29/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280803.D
 Acq On : 28 May 2008 8:51
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 21:02:42 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.80 | 83 | 762124 | 25.778 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 284958 | 23.399 | ng # | 91 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 501069 | 22.923 | ng # | 73 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 610233 | 21.364 | ng | 97 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 721904 | 23.791 | ng | 96 |
| 39) Isopropyl Acetate | 14.83 | 61 | 283100 | 24.876 | ng # | 52 |
| 40) 1-Butanol | 14.84 | 56 | 394220 | 21.526 | ng # | 65 |
| 41) Benzene | 14.99 | 78 | 1664497 | 23.859 | ng | 100 |
| 42) Carbon Tetrachloride | 15.22 | 117 | 660923 | 24.600 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 648442 | 23.894 | ng # | 74 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1195668 | 23.892 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 439061 | 23.521 | ng | 100 |
| 46) Bromodichloromethane | 16.46 | 83 | 608085 | 25.786 | ng | 100 |
| 47) Trichloroethene | 16.54 | 130 | 485309 | 22.677 | ng | 99 |
| 48) 1,4-Dioxane | 16.49 | 88 | 332240 | 25.250 | ng | 80 |
| 49) Isooctane | 16.62 | 57 | 1896937 | 23.716 | ng | 83 |
| 50) Methyl Methacrylate | 16.79 | 100 | 175674 | 25.199 | ng | 91 |
| 51) n-Heptane | 16.98 | 71 | 446979 | 24.113 | ng # | 79 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 668316 | 24.100 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 443355 | 23.936 | ng | 79 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 678162 | 28.348 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 418324 | 24.266 | ng | 97 |
| 58) Toluene | 19.06 | 91 | 1809440 | 23.554 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 1218900 | 23.027 | ng | 84 |
| 60) Dibromochloromethane | 19.60 | 129 | 547691 | 26.396 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 492398 | 24.488 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 1335464 | 24.856 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 400604 | 23.580 | ng | 89 |
| 64) Tetrachloroethene | 20.54 | 166 | 539292 | 23.725 | ng | 99 |
| 65) Chlorobenzene | 21.41 | 112 | 1235718 | 23.994 | ng | 99 |
| 66) Ethylbenzene | 21.89 | 91 | 2113955 | 23.999 | ng | 95 |
| 67) m- & p-Xylene | 22.12 | 91 | 3362418 | 57.068 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 508232 | 32.917 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 1294435 | 24.577 | ng | 98 |
| 70) o-Xylene | 22.71 | 91 | 1705054 | 26.808 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1044898 | 23.137 | ng # | 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 786064 | 29.654 | ng | 97 |
| 74) Cumene | 23.46 | 105 | 2087093 | 24.642 | ng | 98 |
| 75) alpha-Pinene | 23.96 | 93 | 1062732 | 24.267 | ng | 98 |
| 76) n-Propylbenzene | 24.10 | 91 | 2621224 | 24.323 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 2168285 | 24.052 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 2066718 | 24.590 | ng | 99 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 1789831 | 23.573 | ng | 100 |

1586

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280803.D
 Acq On : 28 May 2008 8:51
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

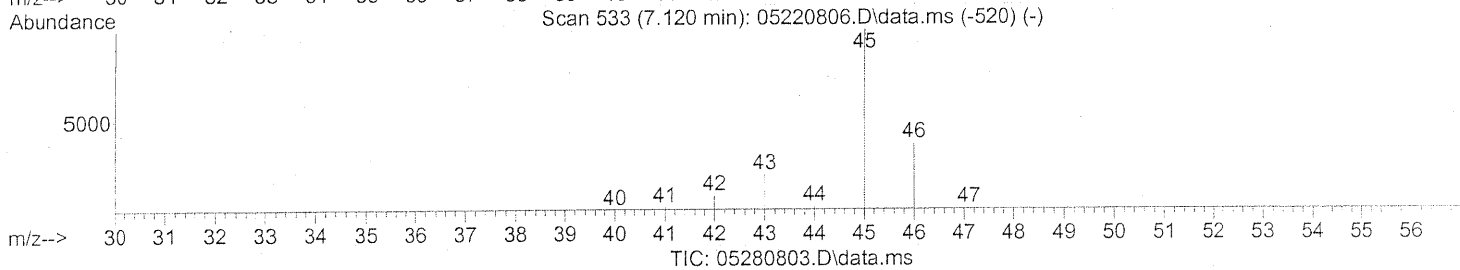
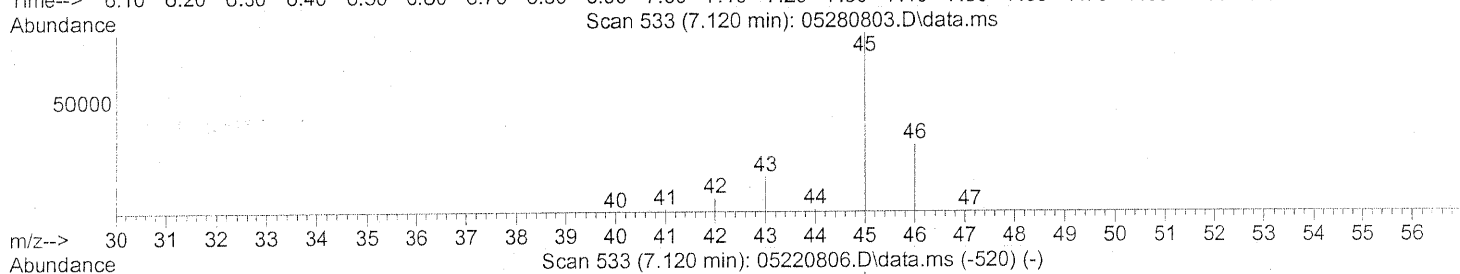
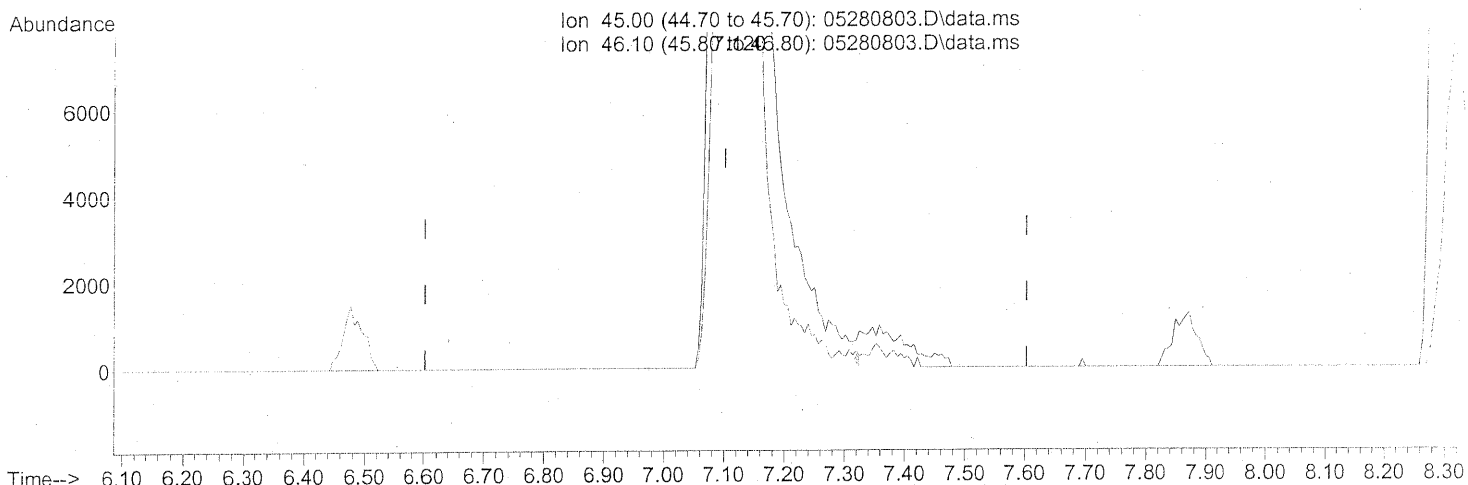
Quant Time: May 28 21:02:42 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 983689 | 23.929 | ng | 99 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 2120470 | 23.209 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 1877018 | 24.281 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 1034728 | 24.328 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 1513697 | 29.182 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1151882 | 23.833 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1145136 | 24.441 | ng | 100 |
| 87) sec-Butylbenzene | 25.21 | 105 | 2438535 | 24.681 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 2282967 | 28.070 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 1969093 | 26.033 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1095472 | 23.899 | ng | 100 |
| 91) d-Limonene | 25.58 | 68 | 719889 | 23.375 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 394810 | 27.754 | ng | 96 |
| 93) n-Undecane | 26.50 | 57 | 1094171 | 24.581 | ng | 83 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 846684 | 25.219 | ng | 95 |
| 95) Naphthalene | 27.77 | 128 | 2576963 | 25.274 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1088912 | 24.598 | ng | 81 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 556045 | 24.880 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280803.D
 Acq On : 28 May 2008 8:51
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 21:01:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



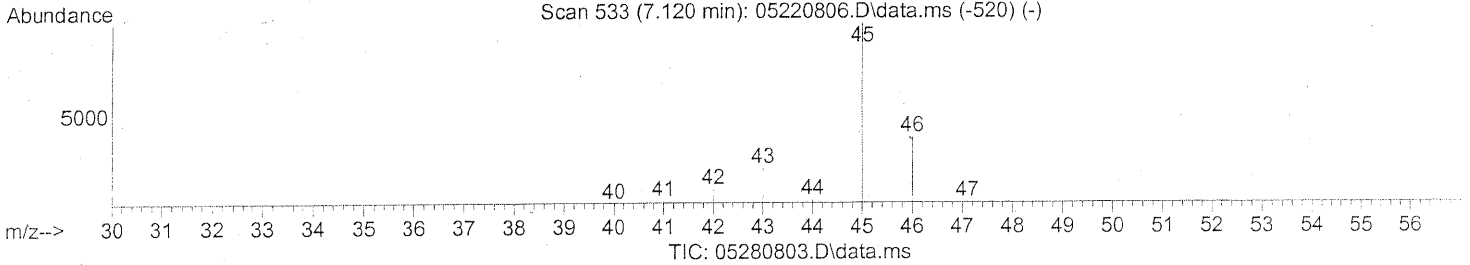
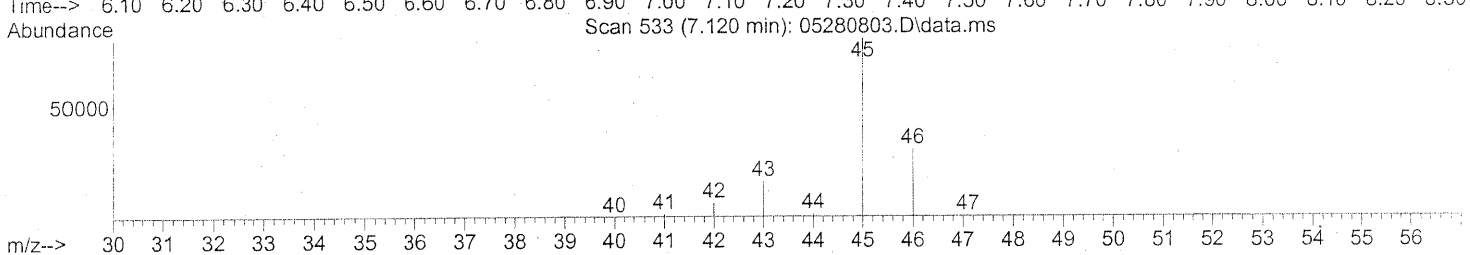
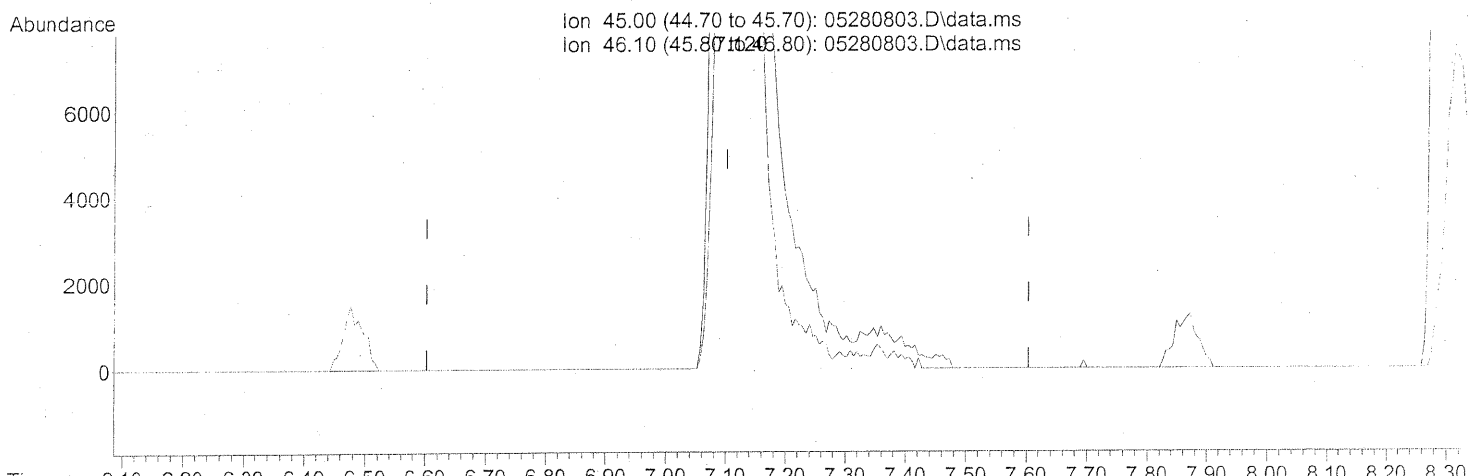
(10) Ethanol (T)
 7.120min (+0.017) 18.24ng
 response 310874

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 38.56 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

split peaks

Data Path : J:\MS13\DATA\2008_05\28\
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 Operator : WA
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 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 21:01:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.120min (+0.017) 18.54ng m
 response 316102

int. whole peaks

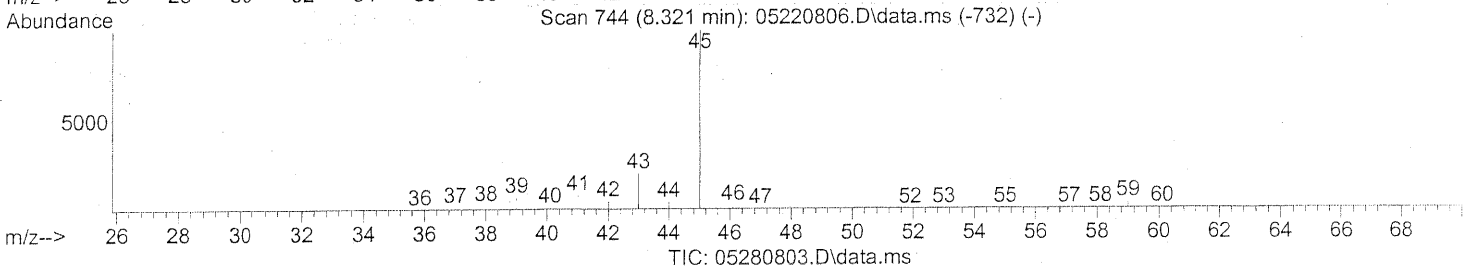
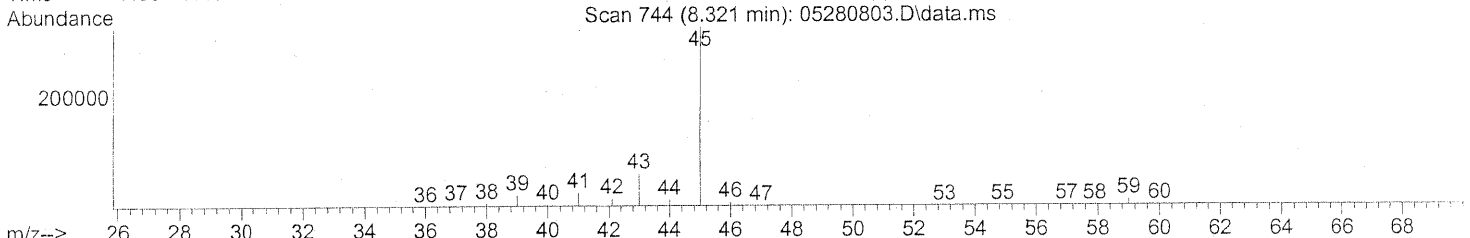
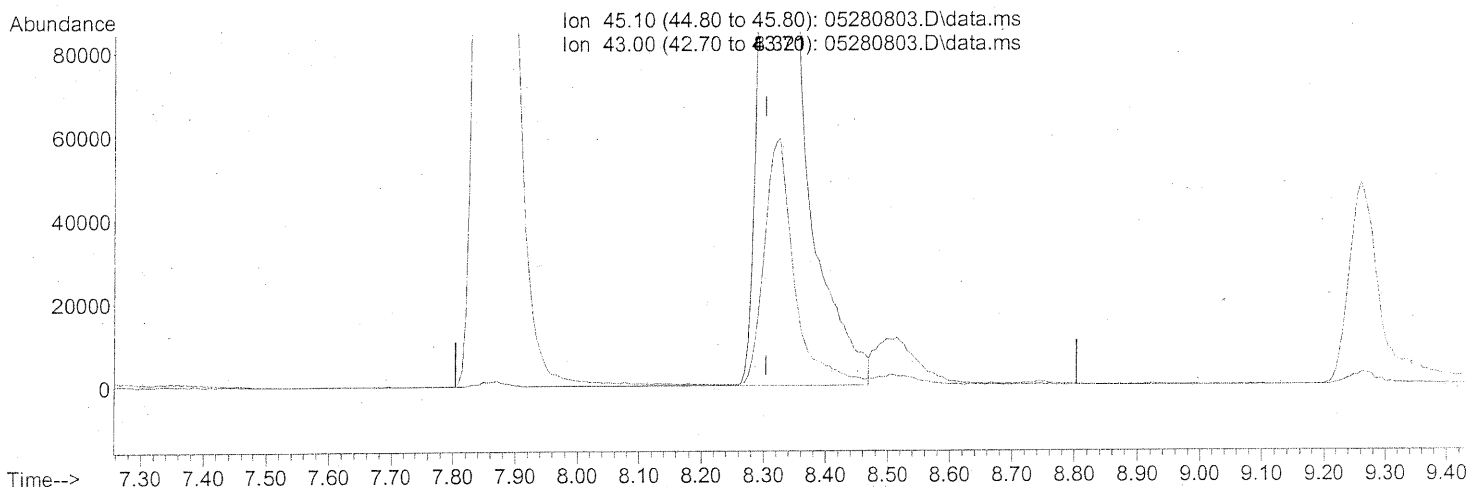
WA 5/29/08

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.92 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

7/06/02/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280803.D
 Acq On : 28 May 2008 8:51
 Operator : WA
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 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 21:01:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



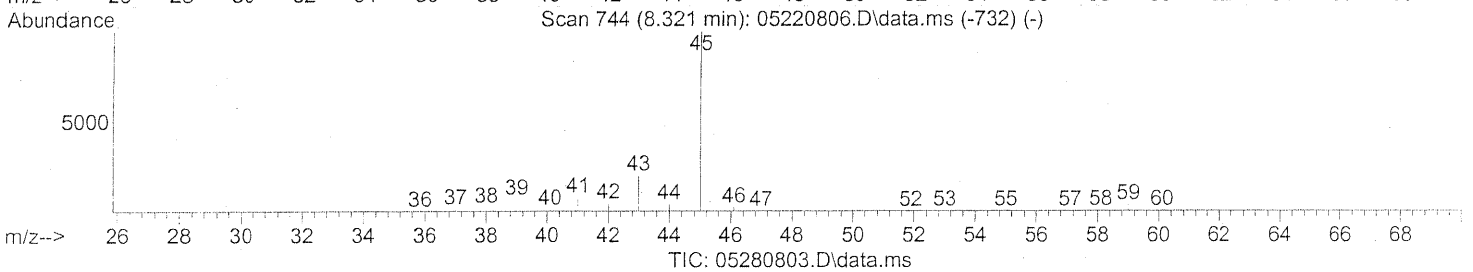
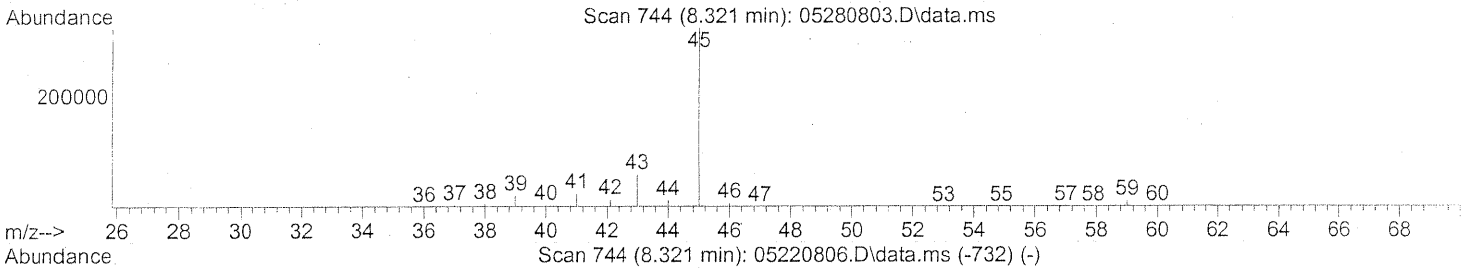
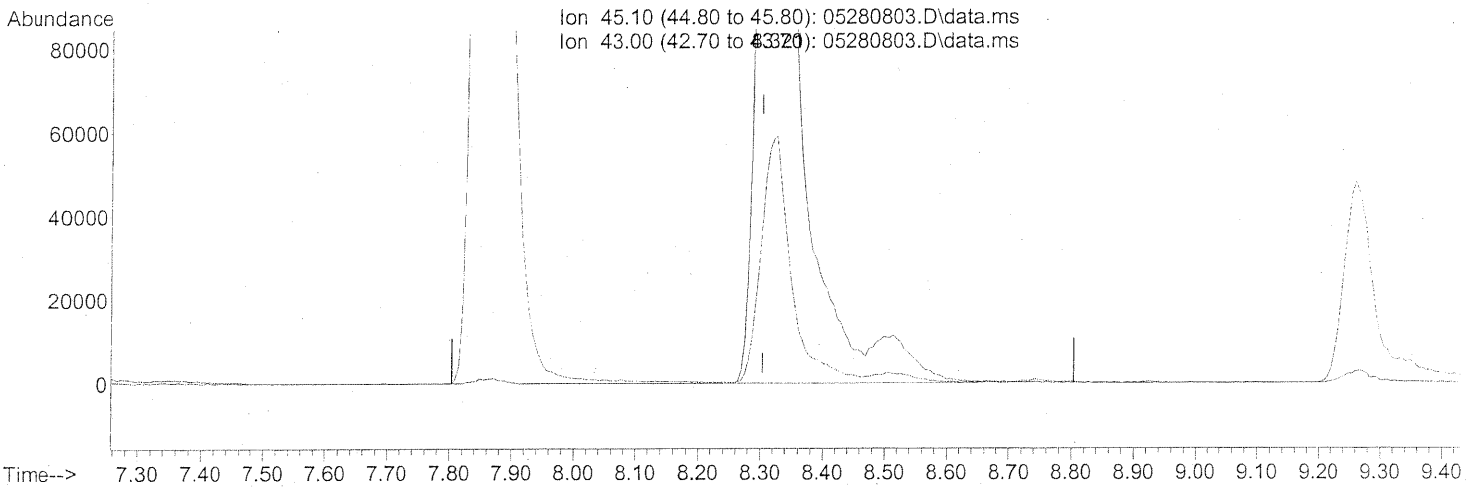
(15) Isopropanol (T)
 8.321min (+0.017) 19.24ng
 response 1070812

split peaks

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 18.81 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
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 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 28 21:01:25 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(15) Isopropanol (T)
 8.321min (+0.017) 20.20ng m
 response 1124608

int. whole plates

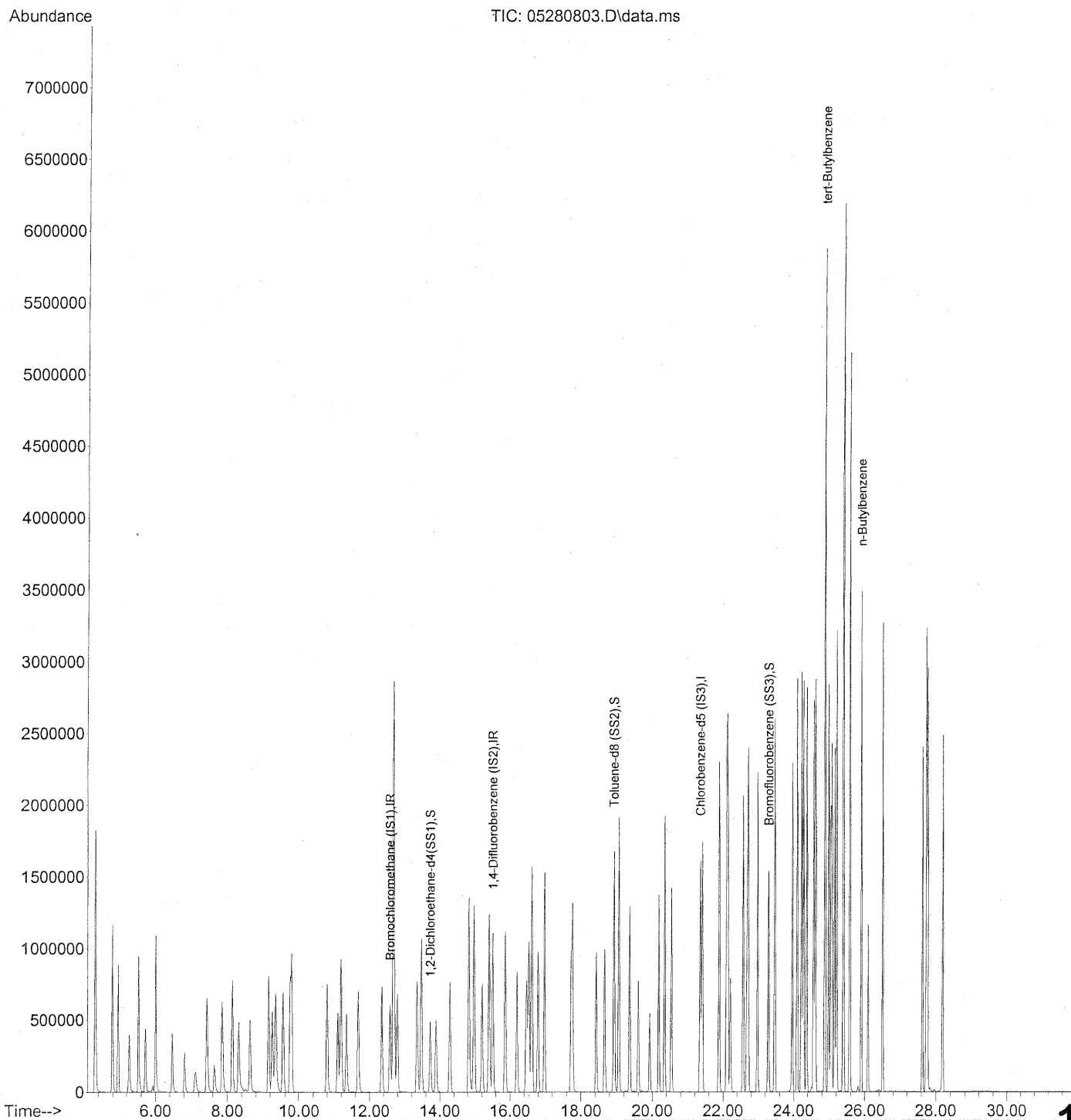
BA 5/29/08

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 17.91 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Bochler

Data Path : J:\MS13\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 8:51 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-05220806
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 13:24:09 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280803.D
 Acq On : 28 May 2008 8:51 am
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05220806
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 31 13:24:09 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 324220 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 1332376 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 629262 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 509188 | 22.666 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 90.68% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 1414049 | 25.021 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 100.08% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 597816 | 26.013 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 104.04% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 1809158 | 24.483 | ng | 98 |
| 8) n-Butylbenzene | 25.91 | 91 | 2037416 | 24.932 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS | Data Qualifier |
|-----------|--|--------------------|--------------|------------|----------------------|-------------------|
| | | | | | Acceptance Limits | |
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 25.5 | 20.7 | 81 | 69-117 | |
| 74-87-3 | Chloromethane | 24.5 | 21.4 | 87 | 53-131 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | 26.0 | 22.0 | 85 | 58-133 | |
| 75-01-4 | Vinyl Chloride | 24.8 | 21.3 | 86 | 61-127 | |
| 74-83-9 | Bromomethane | 25.0 | 23.4 | 94 | 67-124 | |
| 75-00-3 | Chloroethane | 25.0 | 23.0 | 92 | 69-123 | |
| 64-17-5 | Ethanol | 23.8 | 20.4 | 86 | 56-137 | |
| 67-64-1 | Acetone | 26.8 | 21.5 | 80 | 63-116 | |
| 75-69-4 | Trichlorofluoromethane | 26.3 | 22.6 | 86 | 71-120 | |
| 107-13-1 | Acrylonitrile | 25.5 | 24.0 | 94 | 74-129 | |
| 75-35-4 | 1,1-Dichloroethene | 27.8 | 24.7 | 89 | 77-116 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 25.8 | 24.3 | 94 | 35-141 | |
| 75-09-2 | Methylene Chloride | 27.8 | 22.6 | 81 | 71-113 | |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | 26.8 | 28.7 | 107 | 75-127 | |
| 76-13-1 | Trichlorotrifluoroethane | 27.8 | 24.2 | 87 | 63-129 | |
| 75-15-0 | Carbon Disulfide | 25.0 | 21.2 | 85 | 72-122 | |
| 156-60-5 | trans-1,2-Dichloroethene | 26.5 | 23.1 | 87 | 74-118 | |
| 75-34-3 | 1,1-Dichloroethane | 26.8 | 23.2 | 87 | 74-118 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 26.8 | 23.1 | 86 | 72-119 | |
| 108-05-4 | Vinyl Acetate | 25.3 | 28.9 | 114 | 32-163 | |
| 78-93-3 | 2-Butanone (MEK) | 27.0 | 23.7 | 88 | 71-122 | |
| 156-59-2 | cis-1,2-Dichloroethene | 27.0 | 23.0 | 85 | 74-117 | |
| 108-20-3 | Diisopropyl Ether | 26.3 | 22.7 | 86 | 70-131 | |
| 67-66-3 | Chloroform | 29.8 | 26.4 | 89 | 72-113 | |

Verified By: Date: 6/4/08 **1594**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P080529-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/29/08
 Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|------------|---------------------------|--------------------|--------------|------------|-----------------------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | 26.0 | 23.4 | 90 | 74-123 | |
| 107-06-2 | 1,2-Dichloroethane | 26.3 | 22.1 | 84 | 72-117 | |
| 71-55-6 | 1,1,1-Trichloroethane | 26.8 | 23.3 | 87 | 78-114 | |
| 71-43-2 | Benzene | 27.0 | 23.7 | 88 | 73-111 | |
| 56-23-5 | Carbon Tetrachloride | 26.0 | 23.9 | 92 | 78-126 | |
| 994-05-8 | tert-Amyl Methyl Ether | 26.0 | 24.1 | 93 | 81-118 | |
| 78-87-5 | 1,2-Dichloropropane | 26.5 | 23.6 | 89 | 78-117 | |
| 75-27-4 | Bromodichloromethane | 27.8 | 25.2 | 91 | 77-120 | |
| 79-01-6 | Trichloroethene | 27.3 | 22.4 | 82 | 80-116 | |
| 123-91-1 | 1,4-Dioxane | 27.5 | 24.8 | 90 | 79-122 | |
| 80-62-6 | Methyl Methacrylate | 25.8 | 24.7 | 96 | 79-128 | |
| 142-82-5 | n-Heptane | 26.8 | 24.2 | 90 | 77-117 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 25.0 | 23.7 | 95 | 78-112 | |
| 108-10-1 | 4-Methyl-2-pentanone | 27.5 | 23.9 | 87 | 78-128 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 28.0 | 27.7 | 99 | 81-121 | |
| 79-00-5 | 1,1,2-Trichloroethane | 26.3 | 23.9 | 91 | 80-117 | |
| 108-88-3 | Toluene | 26.5 | 24.0 | 91 | 76-116 | |
| 591-78-6 | 2-Hexanone | 26.3 | 23.4 | 89 | 69-131 | |
| 124-48-1 | Dibromochloromethane | 27.0 | 26.3 | 97 | 80-128 | |
| 106-93-4 | 1,2-Dibromoethane | 26.3 | 24.8 | 94 | 79-122 | |
| 111-65-9 | n-Octane | 26.0 | 24.3 | 93 | 78-122 | |
| 127-18-4 | Tetrachloroethene | 26.0 | 23.7 | 91 | 77-118 | |
| 108-90-7 | Chlorobenzene | 26.5 | 24.2 | 91 | 78-117 | |

Verified By: UA Date: 6/4/08 **1595**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: ENSR
Client Sample ID: Lab Control Sample
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
CAS Sample ID: P080529-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

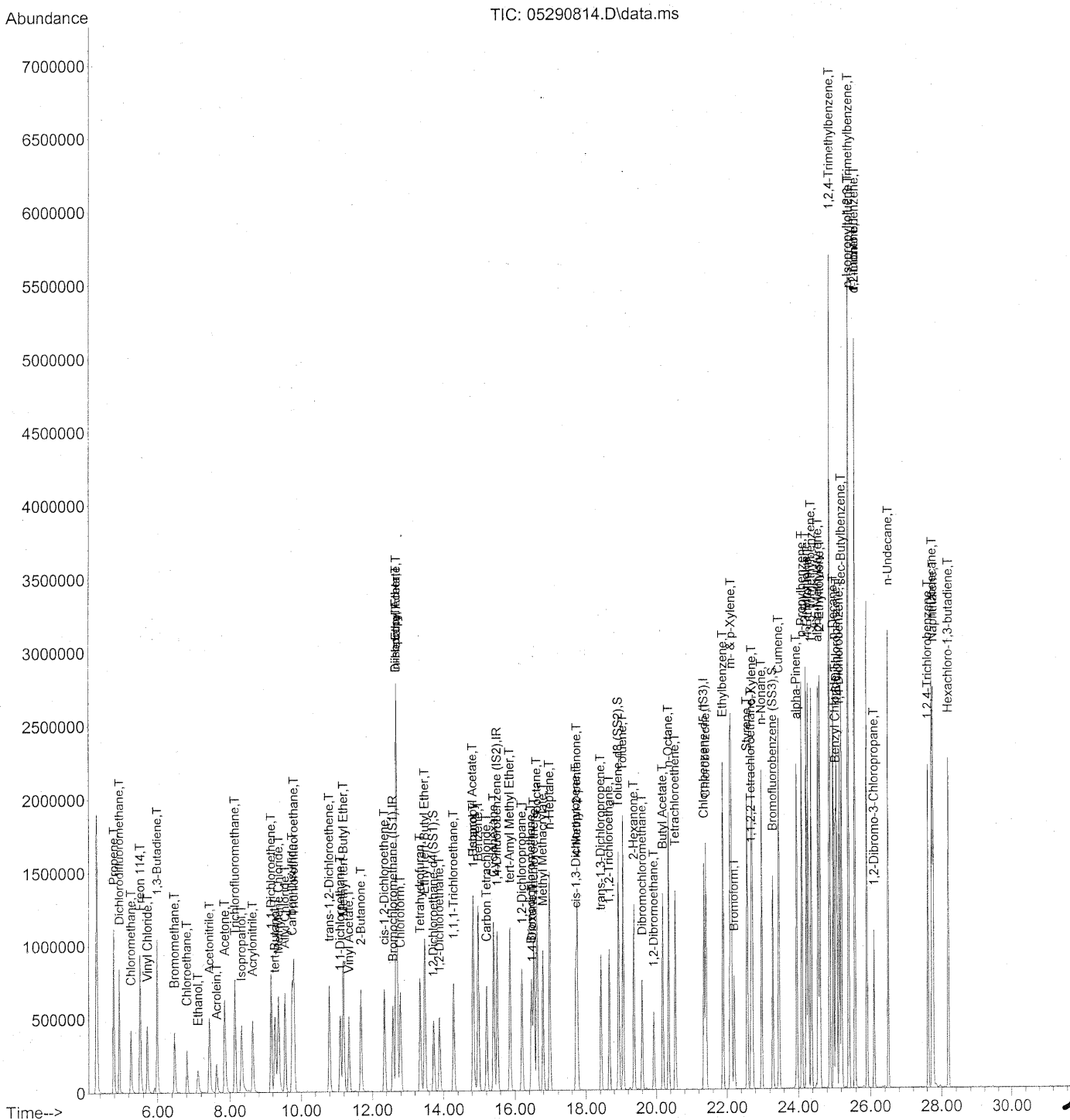
Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: NA Liter(s)

| CAS # | Compound | Spike Amount ng | Result ng | % Recovery | CAS Acceptance Limits | Data Qualifier |
|-------------|-------------------------------|--------------------|--------------|------------|-----------------------------|-------------------|
| 100-41-4 | Ethylbenzene | 26.3 | 24.3 | 92 | 79-116 | |
| 179601-23-1 | m,p-Xylenes | 62.5 | 57.3 | 92 | 80-117 | |
| 75-25-2 | Bromoform | 31.3 | 33.0 | 105 | 77-128 | |
| 100-42-5 | Styrene | 26.3 | 25.1 | 95 | 80-124 | |
| 95-47-6 | o-Xylene | 29.8 | 27.1 | 91 | 80-116 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 29.8 | 29.6 | 99 | 79-120 | |
| 98-82-8 | Cumene | 27.0 | 25.2 | 93 | 81-119 | |
| 103-65-1 | n-Propylbenzene | 26.3 | 24.8 | 94 | 82-120 | |
| 622-96-8 | 4-Ethyltoluene | 26.5 | 25.0 | 94 | 80-119 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 26.0 | 23.9 | 92 | 80-120 | |
| 98-83-9 | alpha-Methylstyrene | 25.5 | 24.9 | 98 | 54-146 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 26.0 | 24.7 | 95 | 80-122 | |
| 100-44-7 | Benzyl Chloride | 25.8 | 28.9 | 112 | 85-131 | |
| 541-73-1 | 1,3-Dichlorobenzene | 25.5 | 23.8 | 93 | 81-117 | |
| 106-46-7 | 1,4-Dichlorobenzene | 26.3 | 24.6 | 94 | 81-119 | |
| 135-98-8 | sec-Butylbenzene | 26.8 | 25.0 | 93 | 80-124 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | 28.8 | 28.5 | 99 | 78-124 | |
| 95-50-1 | 1,2-Dichlorobenzene | 25.8 | 24.0 | 93 | 81-122 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25.8 | 27.0 | 105 | 91-136 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 26.0 | 24.2 | 93 | 75-138 | |
| 91-20-3 | Naphthalene | 26.3 | 24.6 | 94 | 76-143 | |
| 87-68-3 | Hexachlorobutadiene | 26.3 | 23.6 | 90 | 72-128 | |

Verified By: CA Date: 6/4/08 **1596**

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290814.D
Acq On : 29 May 2008 15:26
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-05290805
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 20:12:32 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1597

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290814.D
 Acq On : 29 May 2008 15:26
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05290805
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 20:12:32 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 309118 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1295487 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 597618 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 497413 | 23.223 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 92.88% | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1351585 | 25.182 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.72% | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 561117 | 25.709 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.84% | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 535128 | 21.919 | ng | 91 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 933632 | 20.748 | ng | 100 |
| 4) Chloromethane | 5.27 | 50 | 622797 | 21.373 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 487018 | 22.001 | ng | 100 |
| 6) Vinyl Chloride | 5.71 | 62 | 620077 | 21.268 | ng | 96 |
| 7) 1,3-Butadiene | 5.99 | 54 | 624314 | 28.787 | ng | # 80 |
| 8) Bromomethane | 6.48 | 94 | 379740 | 23.388 | ng | 98 |
| 9) Chloroethane | 6.81 | 64 | 318435 | 22.992 | ng | 95 |
| 10) Ethanol | 7.11 | 45 | 330791m | 20.353 | ng | |
| 11) Acetonitrile | 7.43 | 41 | 927634 | 19.737 | ng | 98 |
| 12) Acrolein | 7.64 | 56 | 260707 | 22.455 | ng | 99 |
| 13) Acetone | 7.86 | 58 | 358372 | 21.536 | ng | # 67 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 873309 | 22.620 | ng | 99 |
| 15) Isopropanol | 8.32 | 45 | 1114206 | 20.995 | ng | 95 |
| 16) Acrylonitrile | 8.63 | 53 | 607430 | 23.974 | ng | 99 |
| 17) 1,1-Dichloroethene | 9.15 | 96 | 419486 | 24.701 | ng | # 78 |
| 18) tert-Butanol | 9.26 | 59 | 1098969 | 24.345 | ng | 92 |
| 19) Methylene Chloride | 9.36 | 84 | 420810 | 22.628 | ng | # 78 |
| 20) Allyl Chloride | 9.54 | 41 | 710986 | 28.652 | ng | 100 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 425009 | 24.207 | ng | 93 |
| 22) Carbon Disulfide | 9.76 | 76 | 1496427 | 21.205 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 634782 | 23.076 | ng | 84 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 747042 | 23.150 | ng | 96 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 1241162 | 23.065 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 88880 | 28.901 | ng | # 86 |
| 27) 2-Butanone | 11.68 | 72 | 287589 | 23.679 | ng | # 92 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 605891 | 23.046 | ng | 81 |
| 29) Diisopropyl Ether | 12.68 | 87 | 337279 | 22.663 | ng | # 83 |
| 30) Ethyl Acetate | 12.69 | 61 | 171839 | 26.210 | ng | 79 |
| 31) n-Hexane | 12.70 | 57 | 754564 | 22.809 | ng | 89 |

1598

WA sbq/08

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290814.D
 Acq On : 29 May 2008 15:26
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05290805
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 20:12:32 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.79 | 83 | 743548 | 26.378 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 274678 | 23.657 | ng | 93 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 486836 | 23.360 | ng # | 74 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 601343 | 22.081 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 686945 | 23.283 | ng | 96 |
| 39) Isopropyl Acetate | 14.83 | 61 | 275655 | 24.911 | ng # | 49 |
| 40) 1-Butanol | 14.84 | 56 | 404695 | 22.727 | ng # | 66 |
| 41) Benzene | 14.99 | 78 | 1608991 | 23.720 | ng | 100 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 625037 | 23.926 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 605582 | 22.950 | ng # | 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1170705 | 24.059 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 428198 | 23.593 | ng | 100 |
| 46) Bromodichloromethane | 16.46 | 83 | 578158 | 25.215 | ng | 99 |
| 47) Trichloroethene | 16.54 | 130 | 466025 | 22.396 | ng | 100 |
| 48) 1,4-Dioxane | 16.49 | 88 | 317665 | 24.829 | ng | 81 |
| 49) Isooctane | 16.62 | 57 | 1834248 | 23.585 | ng | 82 |
| 50) Methyl Methacrylate | 16.80 | 100 | 167265 | 24.676 | ng # | 88 |
| 51) n-Heptane | 16.98 | 71 | 436582 | 24.223 | ng # | 79 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 638941 | 23.697 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.76 | 58 | 430272 | 23.891 | ng | 79 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 644210 | 27.696 | ng | 99 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 400268 | 23.879 | ng | 99 |
| 58) Toluene | 19.06 | 91 | 1749637 | 23.982 | ng | 97 |
| 59) 2-Hexanone | 19.37 | 43 | 1178759 | 23.448 | ng | 84 |
| 60) Dibromochloromethane | 19.60 | 129 | 518273 | 26.301 | ng | 98 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 474047 | 24.824 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 1294242 | 25.364 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 391413 | 24.258 | ng | 89 |
| 64) Tetrachloroethene | 20.54 | 166 | 512398 | 23.735 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 1185079 | 24.229 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 2029355 | 24.259 | ng | 95 |
| 67) m- & p-Xylene | 22.12 | 91 | 3207311 | 57.317 | ng | 93 |
| 68) Bromoform | 22.21 | 173 | 484302 | 33.028 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 1253473 | 25.059 | ng | 97 |
| 70) o-Xylene | 22.71 | 91 | 1634929 | 27.066 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1016397 | 23.698 | ng | 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 745872 | 29.627 | ng | 98 |
| 74) Cumene | 23.46 | 105 | 2025906 | 25.186 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1020703 | 24.541 | ng | 96 |
| 76) n-Propylbenzene | 24.10 | 91 | 2534517 | 24.763 | ng | 98 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 2084720 | 24.349 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 1995109 | 24.995 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 1722713 | 23.890 | ng | 100 |

1599

WA 5/29/08

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290814.D
 Acq On : 29 May 2008 15:26
 Operator : WA
 Sample : 25ng TO-15 LCS
 Misc : S20-05160801/S20-05290805
 ALS Vial : 15 Sample Multiplier: 1

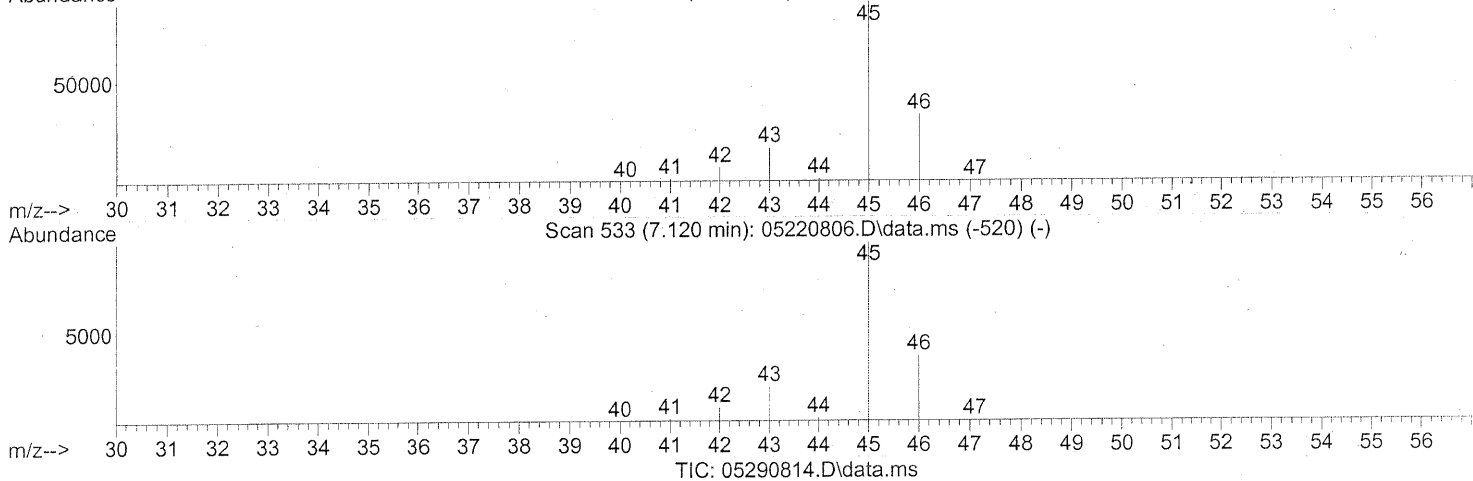
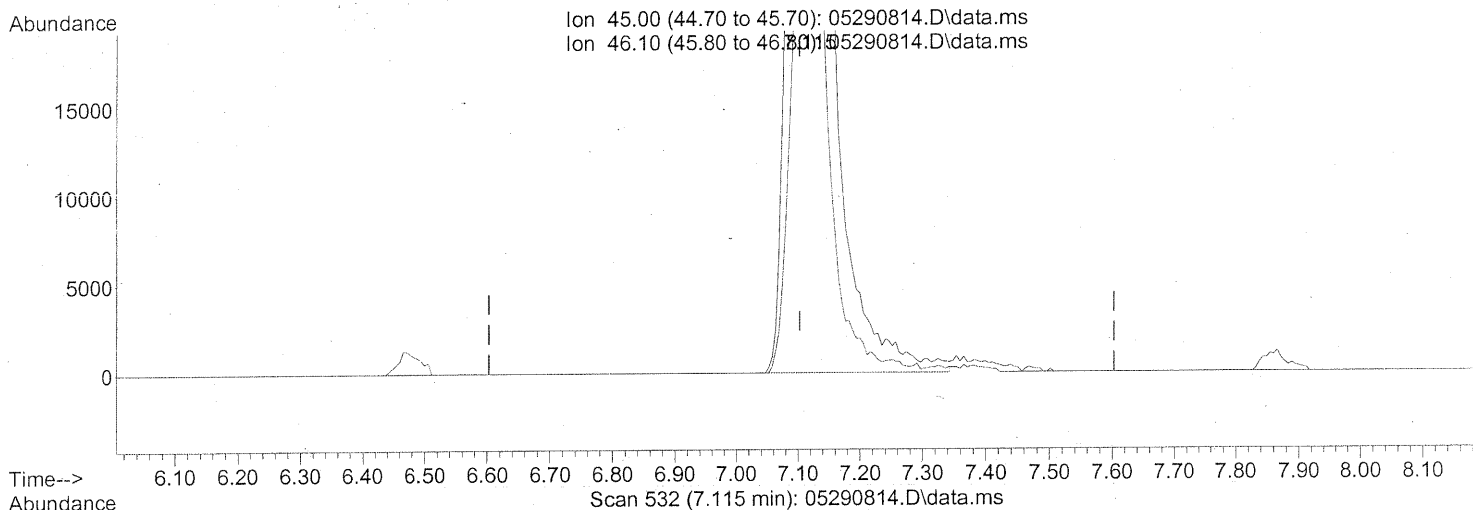
Quant Time: May 29 20:12:32 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 971308 | 24.879 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 2047935 | 23.602 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 1811828 | 24.679 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 997632 | 24.698 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 1423155 | 28.889 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1092624 | 23.804 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1094208 | 24.591 | ng | 100 |
| 87) sec-Butylbenzene | 25.21 | 105 | 2348680 | 25.030 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 2202252 | 28.511 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 1898913 | 26.434 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1045440 | 24.015 | ng | 99 |
| 91) d-Limonene | 25.58 | 68 | 719136 | 24.587 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 365115 | 27.025 | ng | 95 |
| 93) n-Undecane | 26.50 | 57 | 1039937 | 24.599 | ng | 83 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 770404 | 24.162 | ng | 95 |
| 95) Naphthalene | 27.77 | 128 | 2384261 | 24.622 | ng | 98 |
| 96) n-Dodecane | 27.74 | 57 | 972843 | 23.139 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 501216 | 23.614 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290814.D
Acq On : 29 May 2008 15:26
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-05290805
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 15:55:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



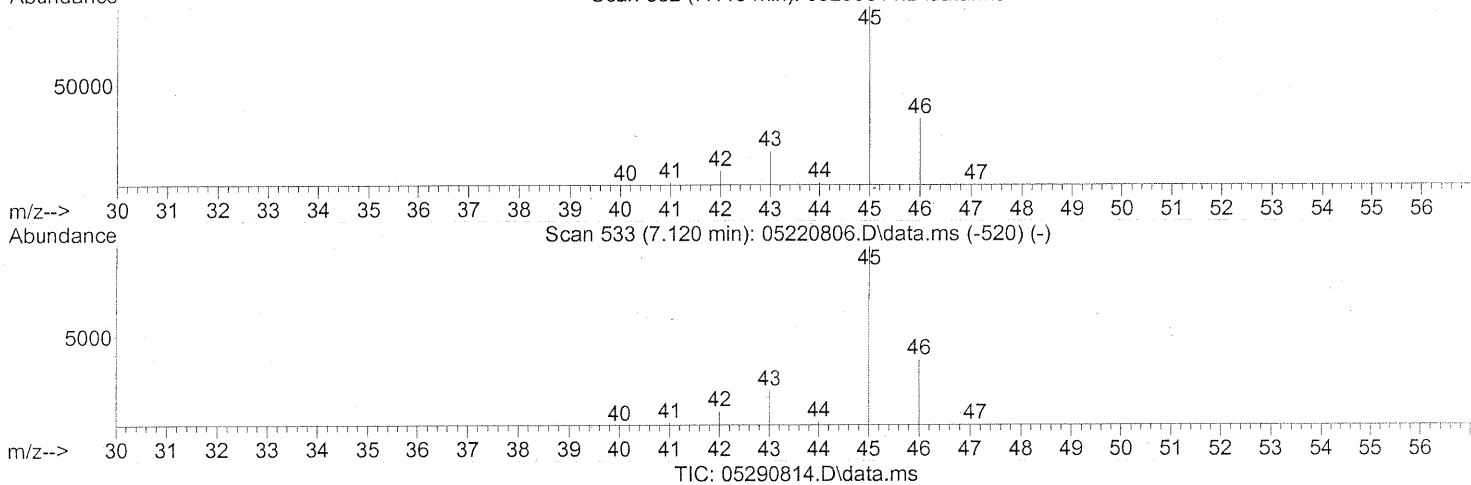
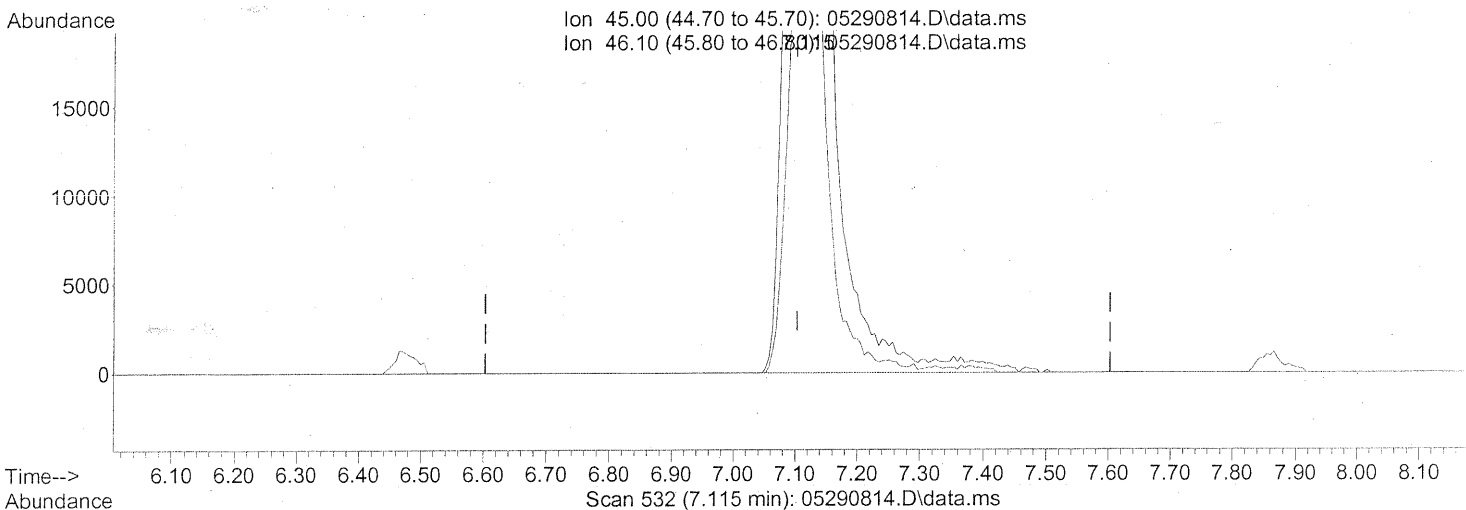
(10) Ethanol (T)
7.115min (+0.011) 20.12ng
response 327008

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

tailing

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290814.D
Acq On : 29 May 2008 15:26
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05160801/S20-05290805
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 29 15:55:14 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.115min (+0.011) 20.35ng m

response 330791

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.39 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

incl tailing

WA 5/29/08

EM 5/30/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: ENSR

Client Sample ID: SG78B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15

Date Collected: 5/15/08

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 5/20/08

Analyst: Rusty Bravo/Wida Ang

Date Analyzed: 5/23/08 & 5/26/08

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 0.050 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC00379

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| Compound | Sample Result | | Duplicate Sample Result | | Average $\mu\text{g}/\text{m}^3$ | % RPD | RPD Limit | Data Qualifier |
|--|--------------------------|-------|--------------------------|-------|----------------------------------|------------|-----------|----------------|
| | $\mu\text{g}/\text{m}^3$ | ppbV | $\mu\text{g}/\text{m}^3$ | ppbV | | | | |
| Dichlorodifluoromethane (CFC 12) | 2.24 | 0.454 | 2.87 | 0.581 | 2.555 | 25 | 25 | J |
| Chloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| Bromomethane | ND | ND | ND | ND | - | - | 25 | |
| Chloroethane | ND | ND | ND | ND | - | - | 25 | |
| Ethanol | 15.6 | 8.29 | 17.0 | 9.02 | 16.3 | 9 | 25 | J, B |
| Acetone | 18.5 | 7.80 | 22.9 | 9.65 | 20.7 | 21 | 25 | J, B |
| Trichlorofluoromethane | ND | ND | ND | ND | - | - | 25 | |
| Acrylonitrile | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethene | 4.49 | 1.13 | 5.81 | 1.47 | 5.15 | 26 | 25 | D |
| 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | ND | ND | ND | - | - | 25 | |
| Methylene Chloride | 10.4 | 2.98 | 11.6 | 3.34 | 11 | 11 | 25 | J |
| 3-Chloro-1-propene (Allyl Chloride) | ND | ND | ND | ND | - | - | 25 | |
| Trichlorotrifluoroethane | ND | ND | ND | ND | - | - | 25 | |
| Carbon Disulfide | ND | ND | ND | ND | - | - | 25 | |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Methyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Acetate | ND | ND | ND | ND | - | - | 25 | |
| 2-Butanone (MEK) | 5.02 | 1.70 | 5.97 | 2.03 | 5.495 | 17 | 25 | J |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Diisopropyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Chloroform | 7,180 | 1,470 | 7,210 | 1,480 | 7195 | 0.4 | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: UA

Date: 6/4/08

1603

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: ENSR

Client Sample ID: SG78B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15

Date Collected: 5/15/08

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 5/20/08

Analyst: Rusty Bravo/Wida Ang

Date Analyzed: 5/23/08 & 5/26/08

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 0.050 Liter(s)

Test Notes:

0.020 Liter(s)

Container ID: SC00379

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-----------------------------|-------------------|-------|-------------------------|------|------------------------------|-----------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Ethyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Benzene | 3.70 | 1.16 | 4.62 | 1.45 | 4.16 | 22 | 25 | |
| Carbon Tetrachloride | 7.43 | 1.18 | 9.44 | 1.50 | 8.435 | 24 | 25 | |
| tert-Amyl Methyl Ether | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloropropane | ND | ND | ND | ND | - | - | 25 | |
| Bromodichloromethane | 32.8 | 4.90 | 43.1 | 6.44 | 37.95 | 27 | 25 | D |
| Trichloroethene | 72.0 | 13.4 | 93.9 | 17.5 | 82.95 | 26 | 25 | D |
| 1,4-Dioxane | ND | ND | ND | ND | - | - | 25 | |
| Methyl Methacrylate | ND | ND | ND | ND | - | - | 25 | |
| n-Heptane | ND | ND | ND | ND | - | - | 25 | |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 4-Methyl-2-pentanone | ND | ND | ND | ND | - | - | 25 | |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Toluene | 3.63 | 0.964 | 4.19 | 1.11 | 3.91 | 14 | 25 | J |
| 2-Hexanone | ND | ND | ND | ND | - | - | 25 | |
| Dibromochloromethane | 18.9 | 2.22 | 25.0 | 2.94 | 21.95 | 28 | 25 | D |
| 1,2-Dibromoethane | ND | ND | ND | ND | - | - | 25 | |
| n-Octane | ND | ND | ND | ND | - | - | 25 | |
| Tetrachloroethene | 102 | 15.1 | 136 | 20.0 | 119 | 29 | 25 | D |
| Chlorobenzene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: *LM*

Date: 5/26/08

1604

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: ENSR

Client Sample ID: SG78B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo/Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00379

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 5/23/08 & 5/26/08
 Volume(s) Analyzed: 0.050 Liter(s)
 0.020 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| Compound | Sample Result | | Duplicate | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-------------------------------|-------------------|-------|-------------------|-------|------------------------------|-----------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Ethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| m,p-Xylenes | 5.91 | 1.36 | 7.89 | 1.82 | 6.9 | 29 | 25 | J, D |
| Bromoform | 25.0 | 2.42 | 34.2 | 3.31 | 29.6 | 31 | 25 | D |
| Styrene | ND | ND | ND | ND | - | - | 25 | |
| o-Xylene | 2.90 | 0.669 | 3.93 | 0.904 | 3.415 | 30 | 25 | J, D |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | - | - | 25 | |
| Cumene | ND | ND | ND | ND | - | - | 25 | |
| n-Propylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Ethyltoluene | ND | ND | ND | ND | - | - | 25 | |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| alpha-Methylstyrene | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trimethylbenzene | ND | ND | 2.74 | 0.557 | - | - | 25 | |
| Benzyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,4-Dichlorobenzene | 3.00 | 0.500 | 3.89 | 0.648 | 3.445 | 26 | 25 | J, D |
| sec-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Isopropyltoluene (p-Cymene) | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Naphthalene | ND | ND | ND | ND | - | - | 25 | |
| Hexachlorobutadiene | ND | ND | ND | ND | - | - | 25 | |
| tert-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |
| n-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits; however, results below the method reporting limit are estimated as specified.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

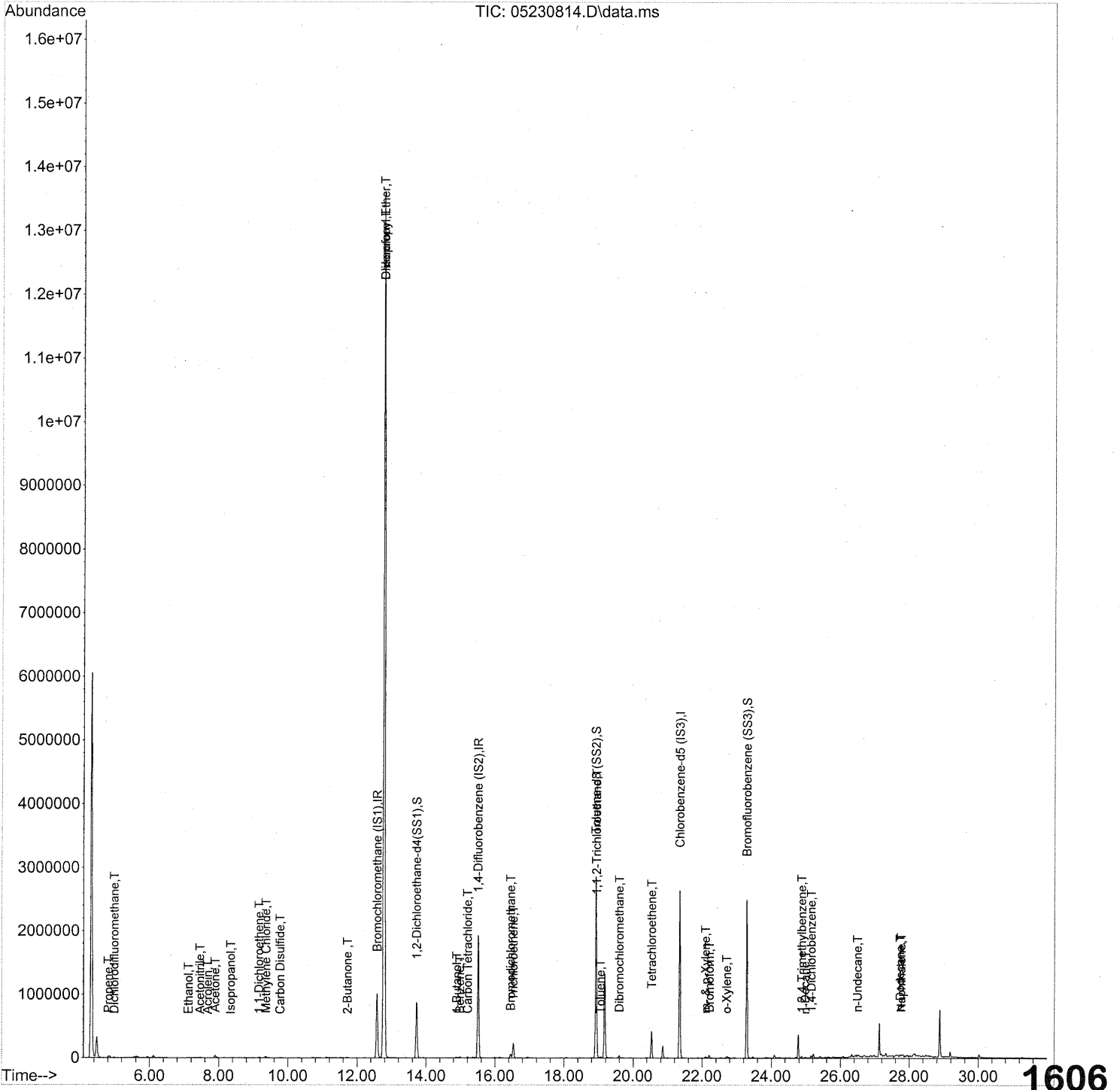
Verified By:

Date: 6/4/08

1605

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:50:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:50:20 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 524459 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2224929 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1039261 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|------------|---------|----|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 889709 | 24.483 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 97.92% | | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 2359769 | 25.283 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 101.12% | | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 941646 | 24.810 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery = | 99.24% | | ✓ |

Target Compounds

| | | | | | Qvalue | |
|------------------------------|-------|-----|---------|-----------|--------|----|
| 2) Propene | 4.82 | 42 | 9549 | 0.231 ng | # | 37 |
| 3) Dichlorodifluoromethane | 4.99 | 85 | 6631 | 0.087 ng | | 98 |
| 4) Chloromethane | 5.31 | 50 | 2012 | N.D. ✓ | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. ✓ | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. ✓ | | |
| 7) 1,3-Butadiene | 5.95 | 54 | 135 | N.D. ✓ | | |
| 8) Bromomethane | 6.52 | 94 | 459 | N.D. ✓ | | |
| 9) Chloroethane | 6.84 | 64 | 620 | N.D. ✓ | | |
| 10) Ethanol | 7.12 | 45 | 14198m | 0.515 ng | | |
| 11) Acetonitrile | 7.46 | 41 | 7661 | 0.096 ng | | 84 |
| 12) Acrolein | 7.68 | 56 | 1346 | 0.068 ng | | 97 |
| 13) Acetone | 7.89 | 58 | 19591 | 0.694 ng | # | 69 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 2977 | N.D. ✓ | | |
| 15) Isopropanol | 8.35 | 45 | 4571 | 0.051 ng | | 99 |
| 16) Acrylonitrile | 8.68 | 53 | 71 | N.D. ✓ | | |
| 17) 1,1-Dichloroethene | 9.17 | 96 | 5078 | 0.176 ng | # | 79 |
| 18) tert-Butanol | 9.32 | 59 | 1228 | N.D. ✓ | | |
| 19) Methylene Chloride | 9.37 | 84 | 11087 | 0.351 ng | | 92 |
| 20) Allyl Chloride | 9.46 | 41 | 423 | N.D. ✓ | | |
| 21) Trichlorotrifluoroethane | 9.79 | 151 | 186 | N.D. ✓ | | |
| 22) Carbon Disulfide | 9.77 | 76 | 9412 | 0.079 ng | | 98 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. ✓ | | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 1991 | N.D. ✓ | | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. ✓ | | |
| 26) Vinyl Acetate | 0.00 | 86 | 0 | N.D. ✓ | | |
| 27) 2-Butanone | 11.72 | 72 | 3729 | 0.181 ng | # | 1 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. ✓ | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 1608082 | 63.688 ng | NR # | 1 |
| 30) Ethyl Acetate | 12.78 | 61 | 126 | N.D. ✓ | | |
| 31) n-Hexane | 12.69 | 57 | 1345 | N.D. ✓ | | |

1607

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:50:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------------------|-----------|----------|
| 32) Chloroform | 12.78 | 83 | 14309517 | 299.211 | ng su dil | 97 |
| 34) Tetrahydrofuran | 0.00 | 72 | 0 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | ✓ | |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 135 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | ✓ | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.89 | 56 | 13408 | 0.438 | ng | 84 |
| 41) Benzene | 14.99 | 78 | 16286 | 0.140 | ng | 98 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 12823 | 0.286 | ng | 96 |
| 43) Cyclohexane | 15.39 | 84 | 578 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | ✓ | |
| 45) 1,2-Dichloropropane | 16.21 | 63 | 1064 | N.D. | ✓ | |
| 46) Bromodichloromethane | 16.46 | 83 | 51423m | 1.306 | ng | |
| 47) Trichloroethene | 16.53 | 130 | 101701 | 2.846 | ng | 98 |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | ✓ | |
| 49) Isooctane | 16.63 | 57 | 1472 | N.D. | | |
| 50) Methyl Methacrylate | 16.70 | 100 | 140 | N.D. | ✓ | |
| 51) n-Heptane | 16.97 | 71 | 94 | N.D. | ✓ | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. | ✓ | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 206560 | 7.175 | ng NR# | 8 |
| 58) Toluene | 19.05 | 91 | 16084 | 0.127 | ng | 94 |
| 59) 2-Hexanone | 19.39 | 43 | 1692 | N.D. | ✓ | |
| 60) Dibromochloromethane | 19.60 | 129 | 25996 | 0.759 | ng | 100 |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.20 | 43 | 164 | N.D. | | |
| 63) n-Octane | 20.36 | 57 | 238 | N.D. | ✓ | |
| 64) Tetrachloroethene | 20.54 | 166 | 154331 | 4.111 | ng | 99 |
| 65) Chlorobenzene | 21.40 | 112 | 2233 | N.D. | ✓ | |
| 66) Ethylbenzene | 21.89 | 91 | 6158 | N.D. | ✓ | |
| 67) m- & p-Xylene | 22.10 | 91 | 23274 | 0.239 | ng | 94 |
| 68) Bromoform | 22.21 | 173 | 26434 | 1.037 | ng | 97 |
| 69) Styrene | 22.58 | 104 | 1013 | N.D. | ✓ | |
| 70) o-Xylene | 22.71 | 91 | 12550 | 0.119 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1235 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.77 | 83 | 166 | N.D. | ✓ | |
| 74) Cumene | 23.47 | 105 | 738 | N.D. | ✓ | |
| 75) alpha-Pinene | 23.97 | 93 | 655 | N.D. | | |
| 76) n-Propylbenzene | 24.10 | 91 | 3403 | N.D. | ✓ | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 5595 | N.D. | | |
| 78) 4-Ethyltoluene | 24.27 | 105 | 4483 | N.D. | ✓ | |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 2258 | N.D. | ✓ | |

1608

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:50:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

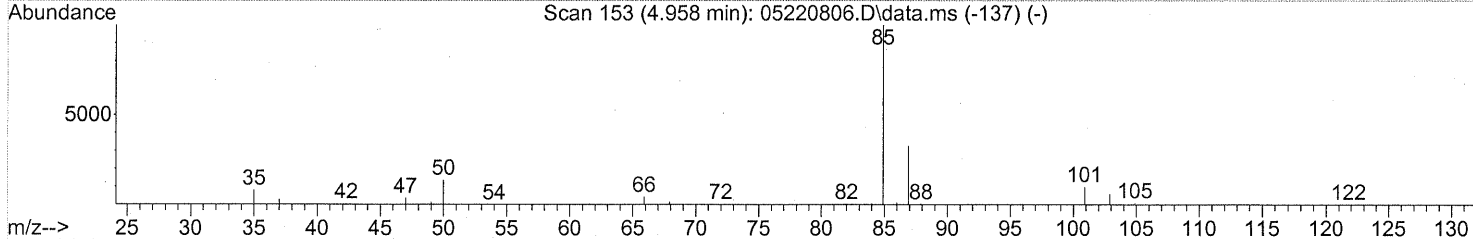
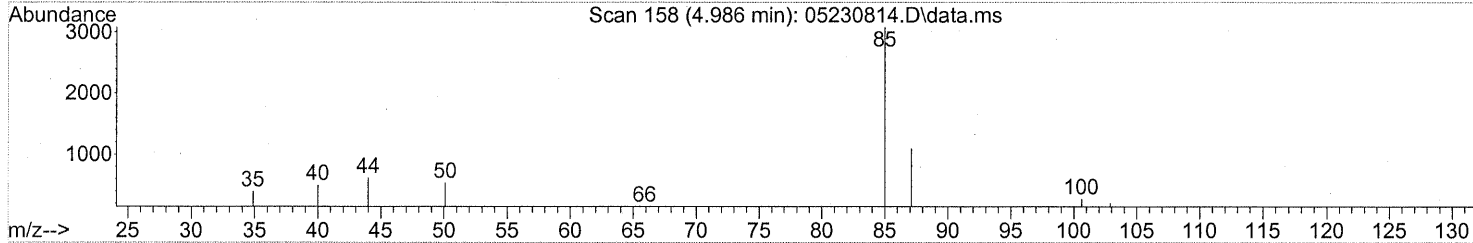
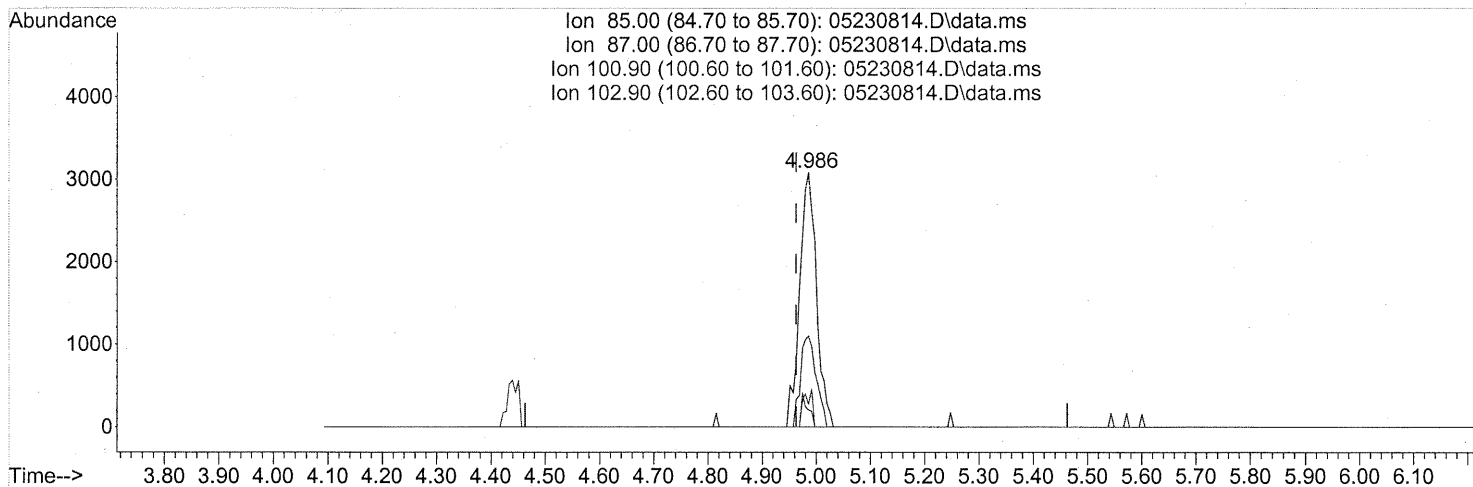
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|----------|-------|-----------|
| 80) alpha-Methylstyrene | 24.57 | 118 | 311 | N.D. | ✓ | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3893 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 10564 | 0.083 ng | | 92 |
| 83) n-Decane | 24.98 | 57 | 3646 | 0.052 ng | # | 52 |
| 84) Benzyl Chloride | 25.05 | 91 | 146 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 781 | N.D. | ✓ | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 9141 | 0.118 ng | | 95 |
| 87) sec-Butylbenzene | 25.21 | 105 | 632 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | 25.41 | 119 | 2312 | N.D. | ✓ | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 3609 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1876 | N.D. | ✓ | |
| 91) d-Limonene | 25.57 | 68 | 2518 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 12306 | 0.167 ng | | 73 |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 2349 | N.D. | ✓ | |
| 95) Naphthalene | 27.77 | 128 | 11855 | 0.070 ng | | 98 |
| 96) n-Dodecane | 27.73 | 57 | 10465 | 0.143 ng | # | 72 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 236 | N.D. | ✓ | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 18:48:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.986min (+0.023) 0.09ng

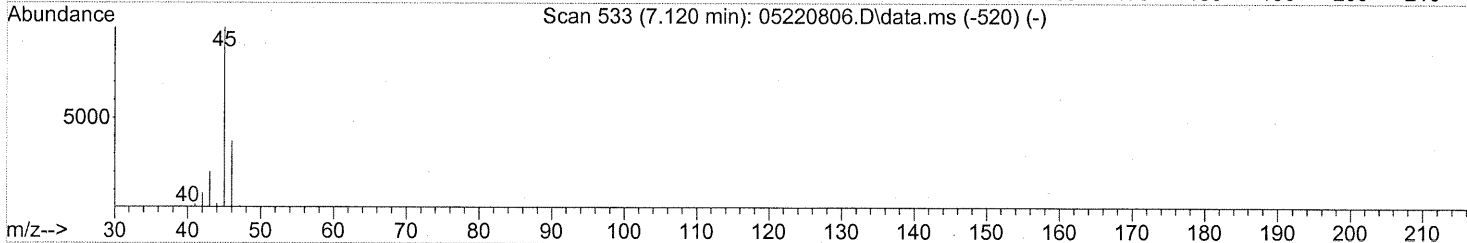
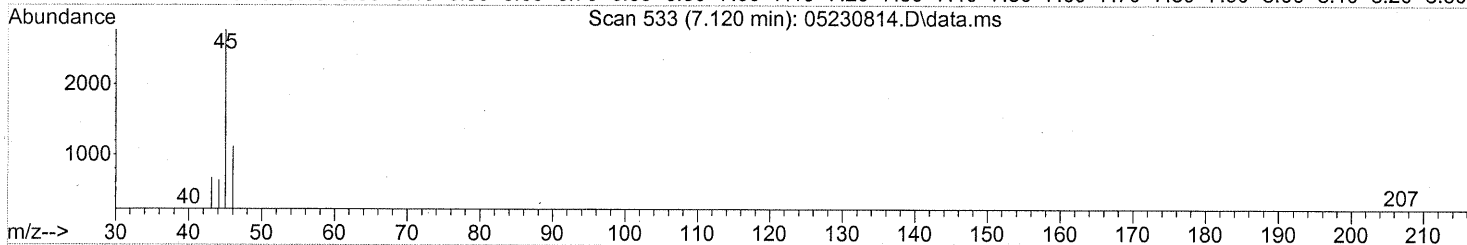
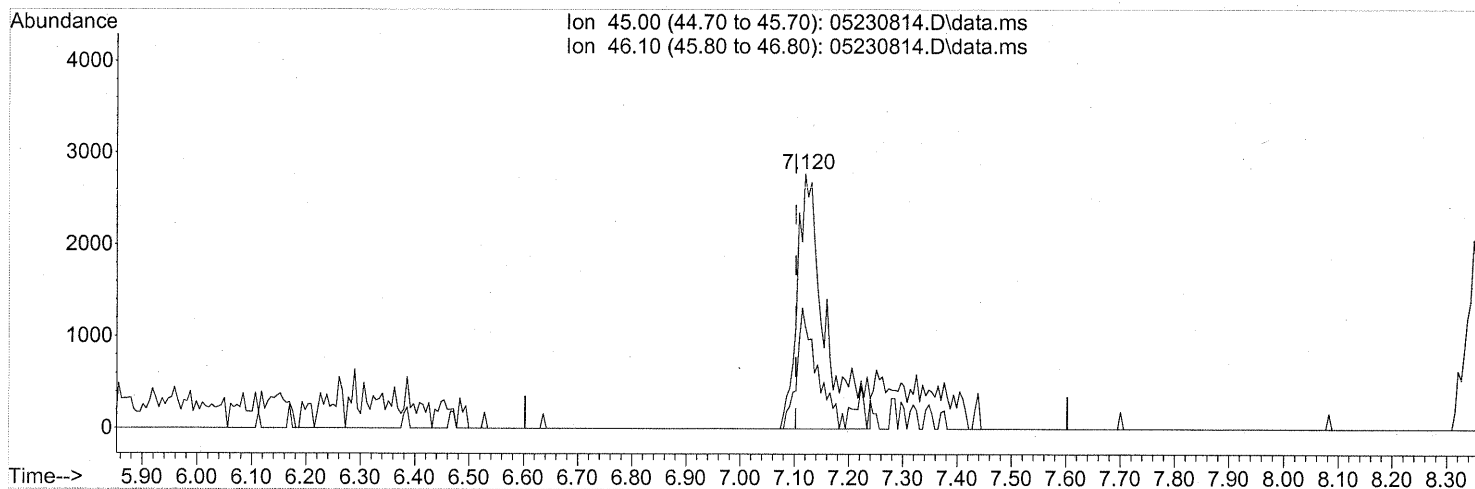
response 6631

| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 33.46 |
| 100.90 | 9.30 | 7.39 |
| 102.90 | 6.00 | 5.34 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230814.D
Acq On : 23 May 2008 18:19
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 18:48:19 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.120min (+0.017) 0.36ng

response 9929

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 34.11 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

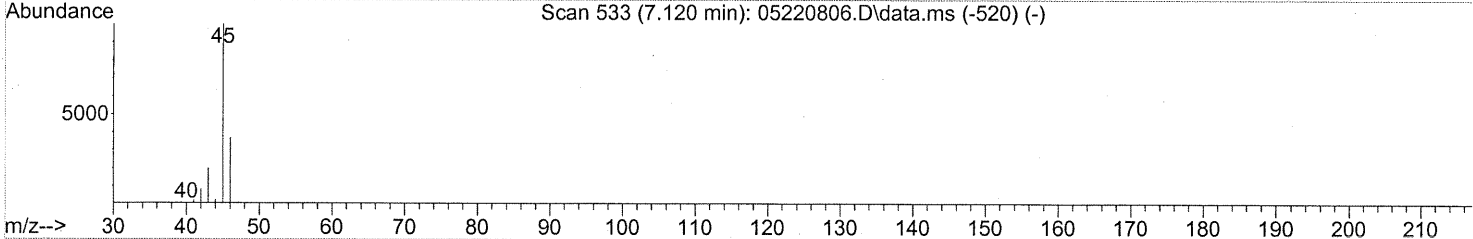
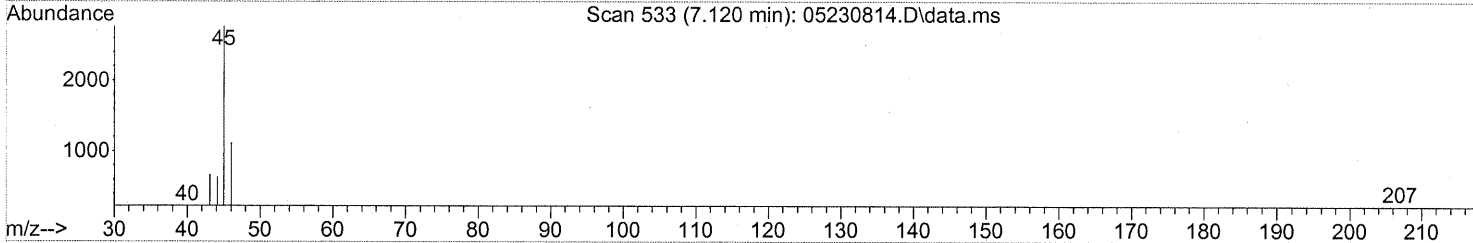
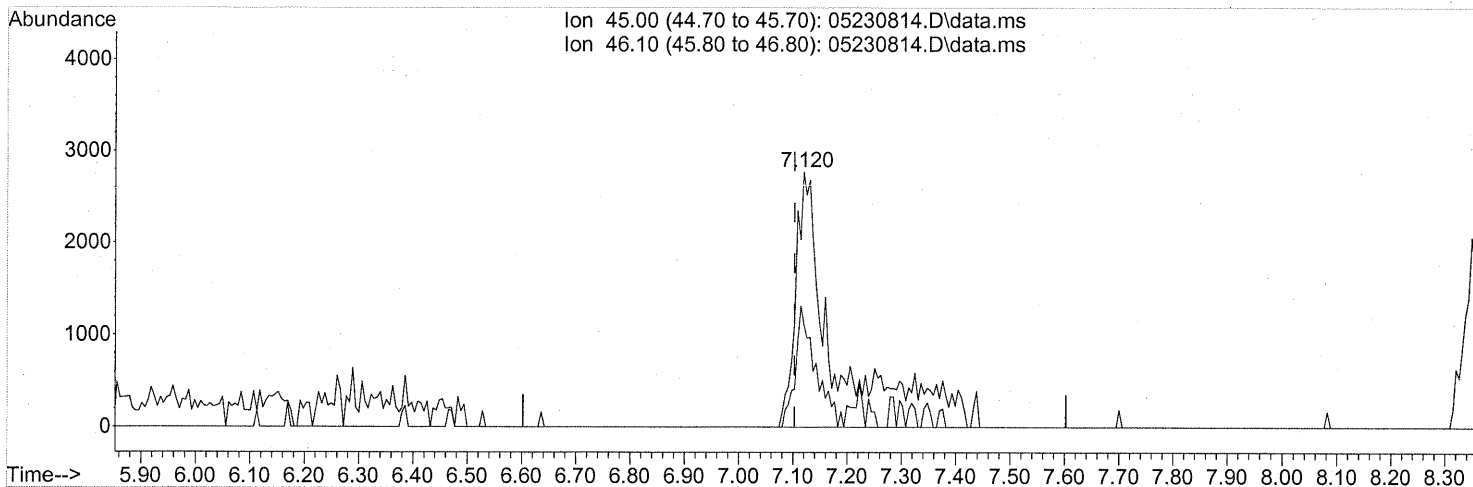
split peaks

1611

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 18:48:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)
 7.120min (+0.017) 0.51ng m
 response 14198

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 23.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

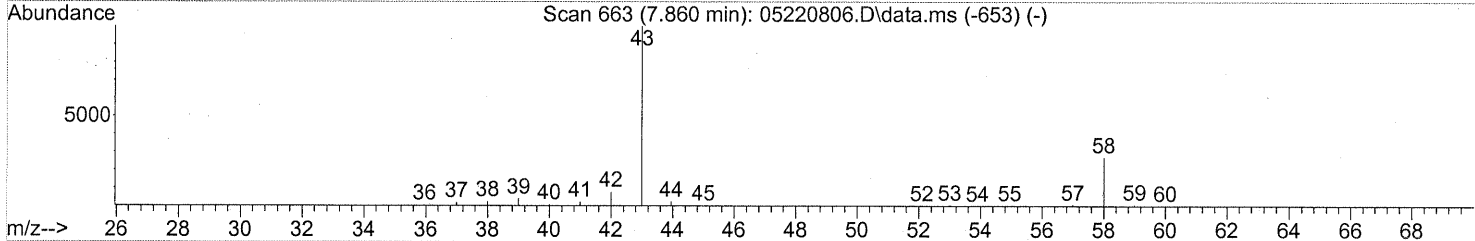
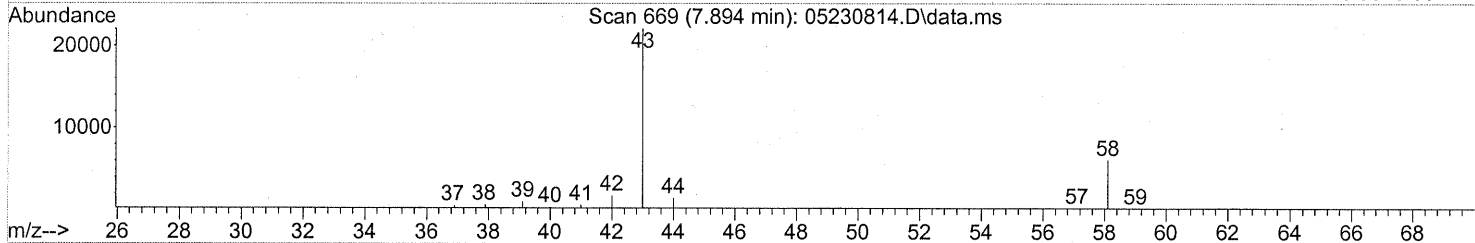
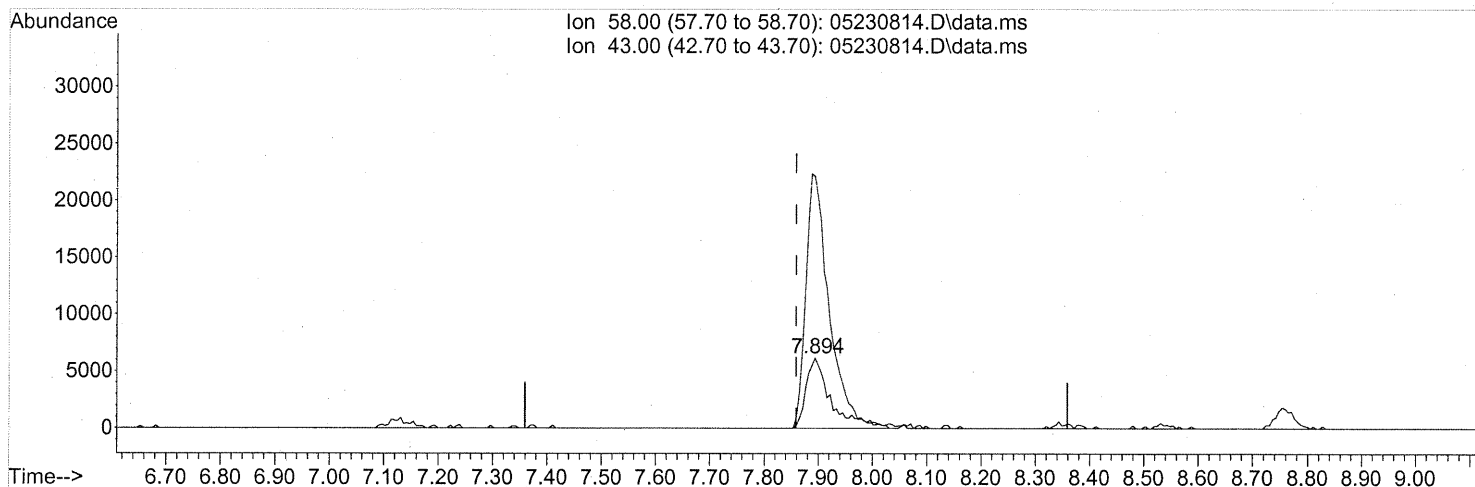
int. whole peaks
RT 5/30/08
P 06/02/08

1612

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230814.D\data.ms

(13) Acetone (T)

7.894min (+0.034) 0.69ng

response 19591

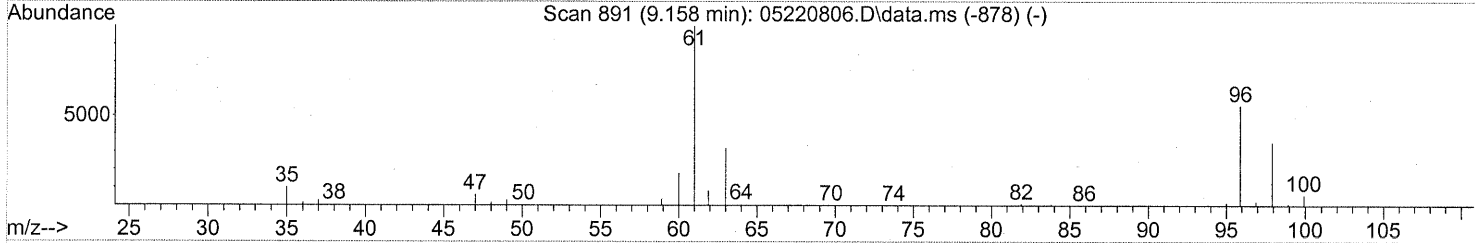
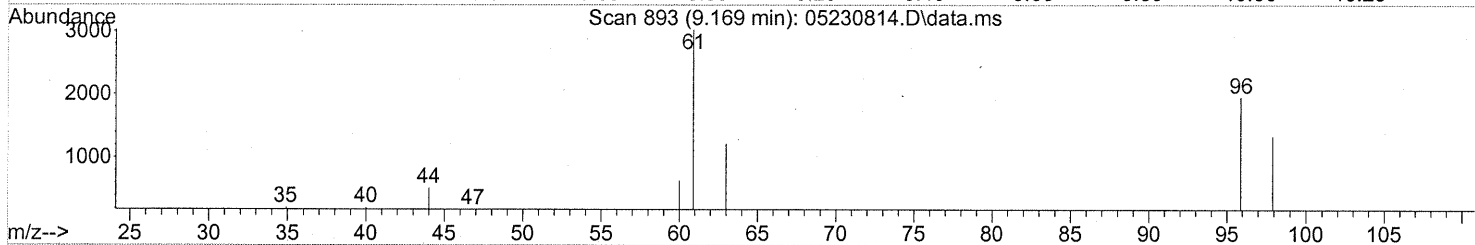
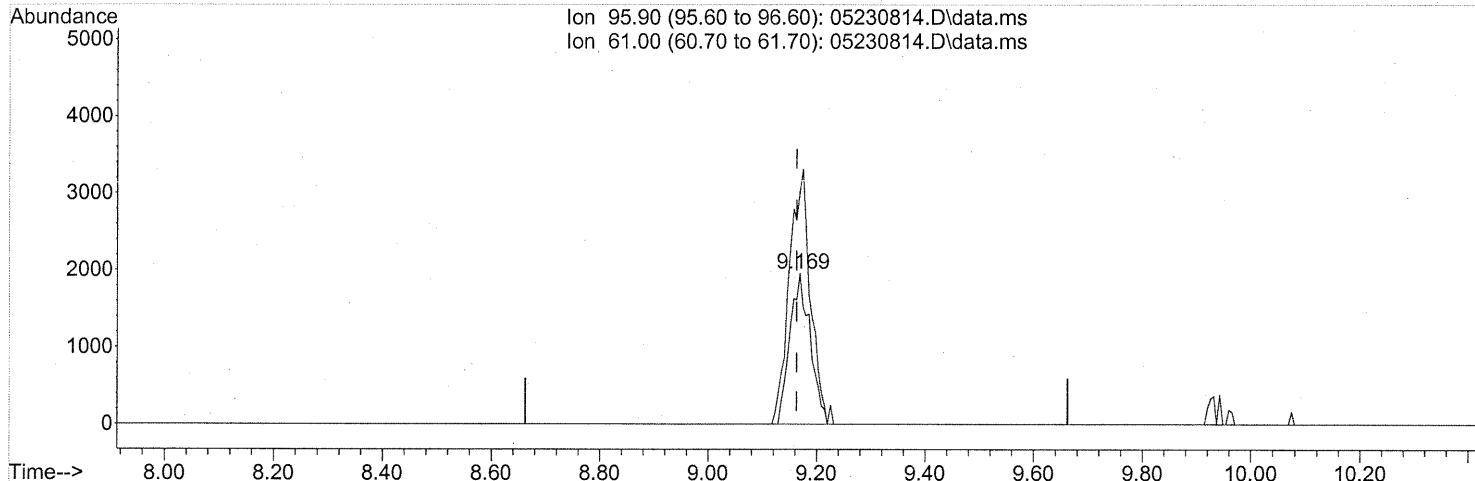
| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 341.15# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1613

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.169min (+0.006) 0.18ng

response 5078

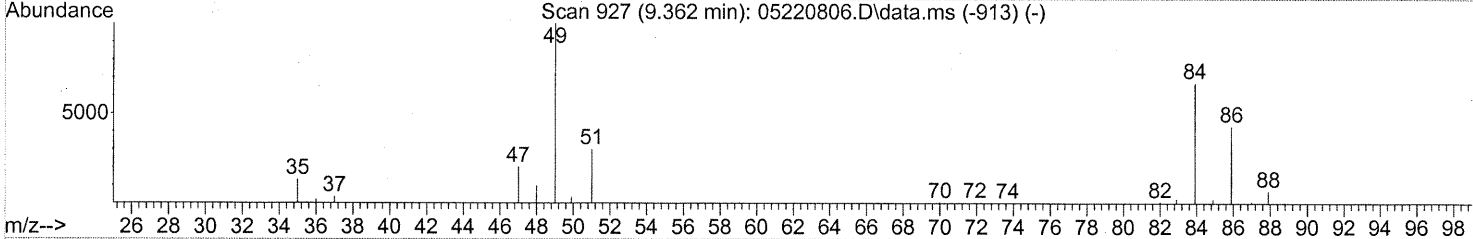
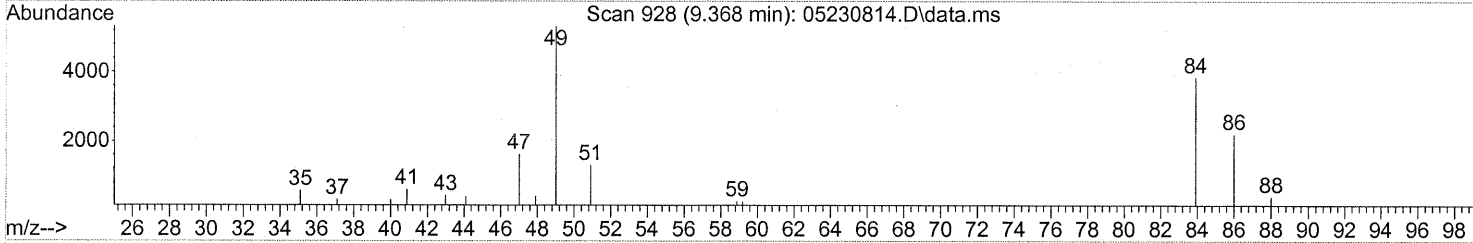
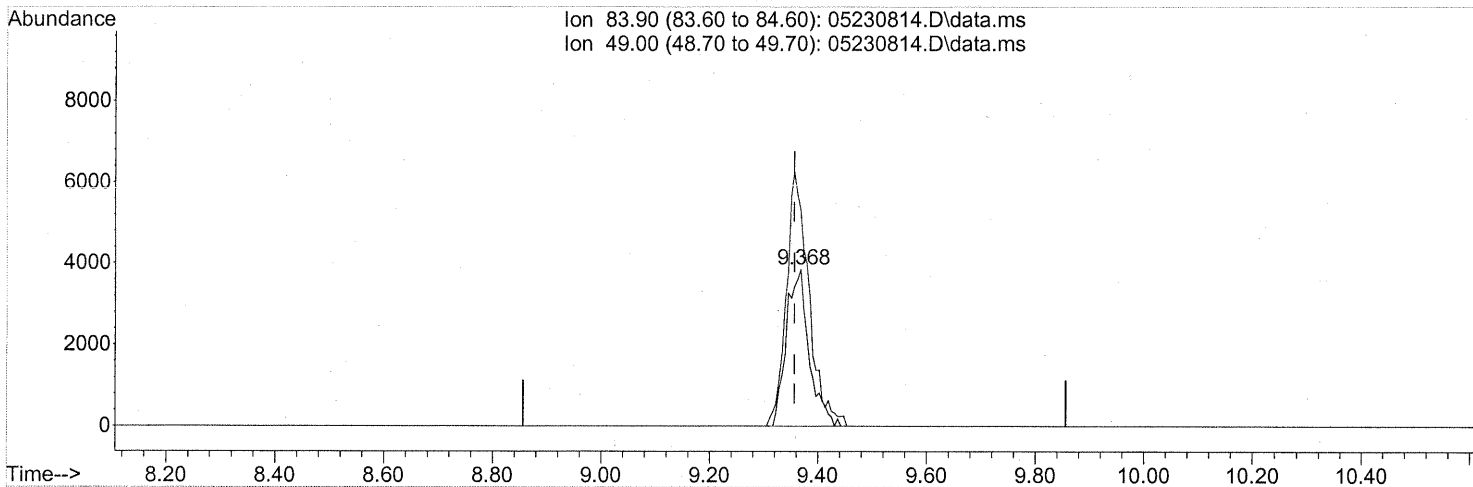
| Ion | Exp% | Act% |
|-------|--------|---------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 176.57# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1614

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.368min (+0.011) 0.35ng

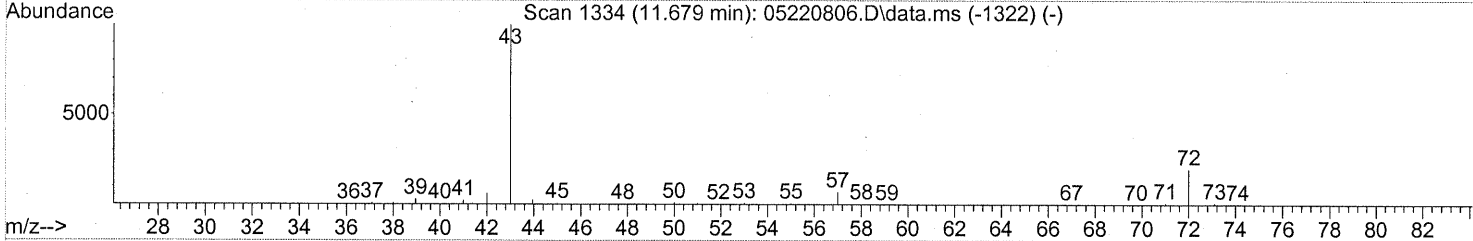
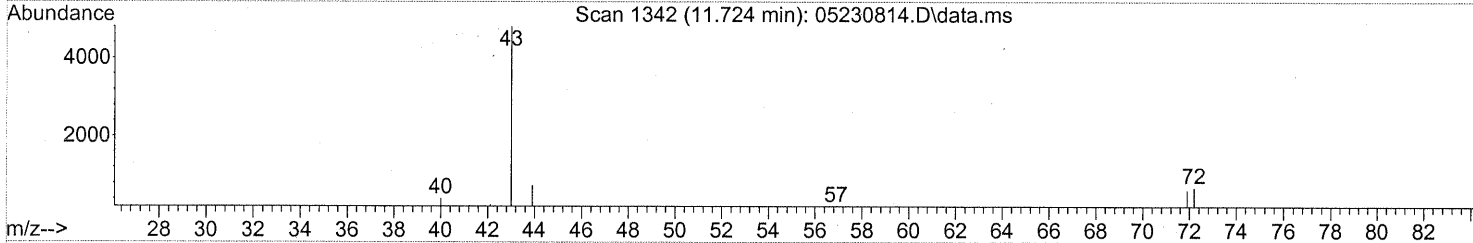
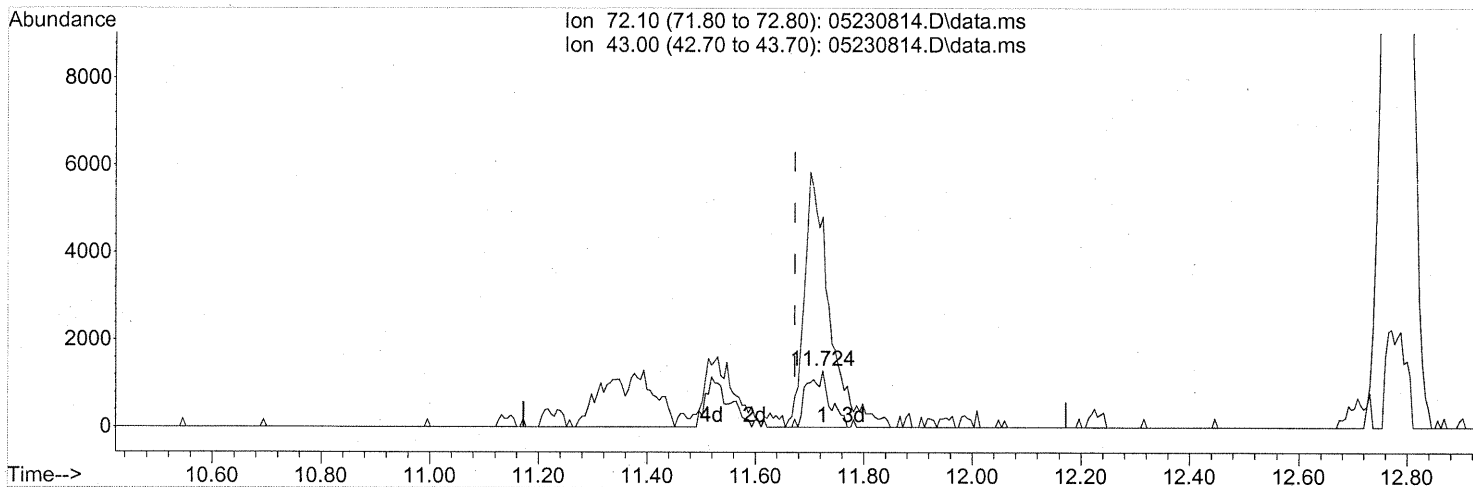
response 11087

| Ion | Exp% | Act% |
|-------|--------|--------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 162.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)
 11.724min (+0.051) 0.18ng
 response 3729

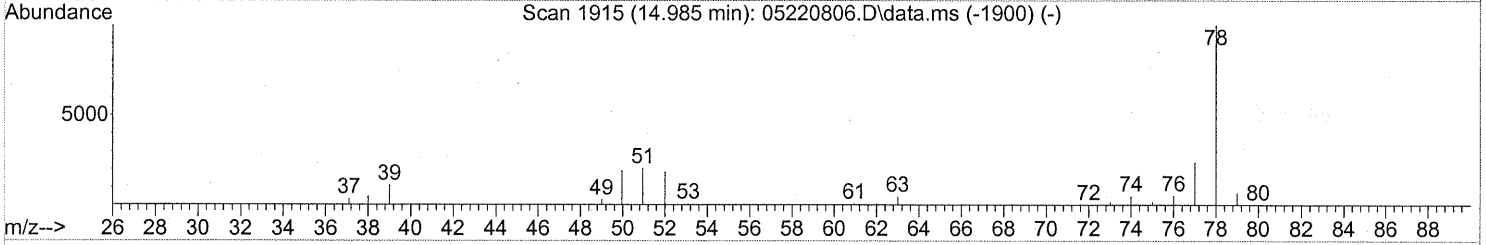
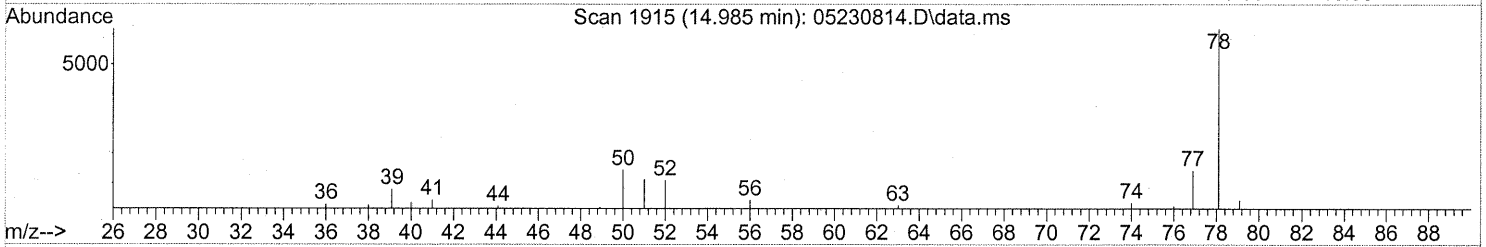
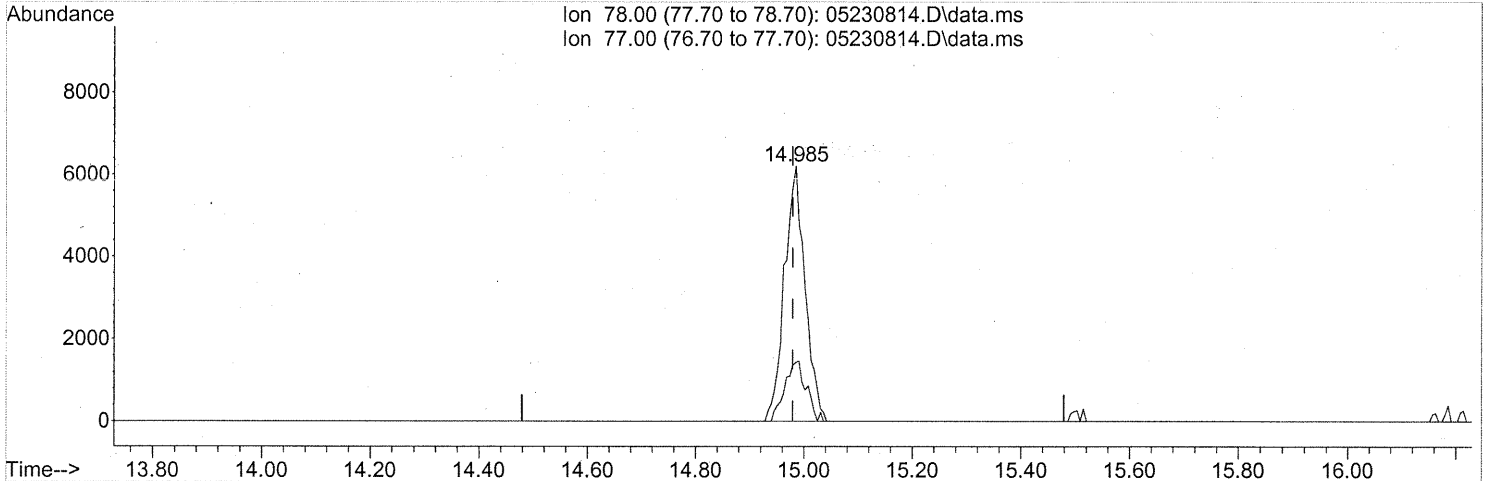
| Ion | Exp% | Act% |
|-------|--------|-------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1616

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230814.D
Acq On : 23 May 2008 18:19
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05230814.D\data.ms

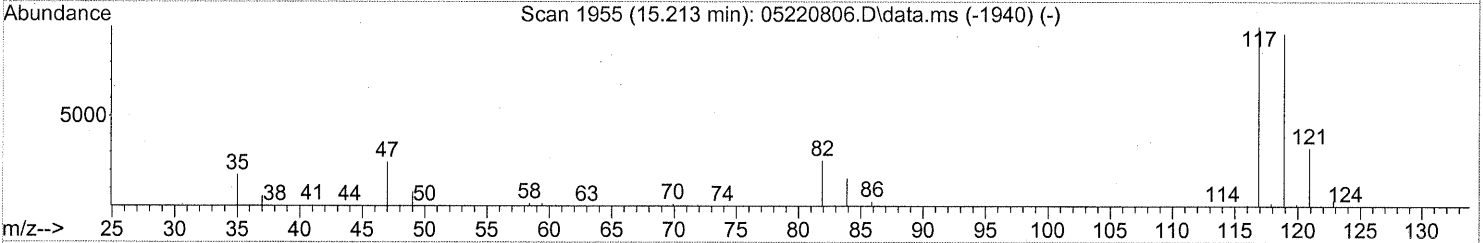
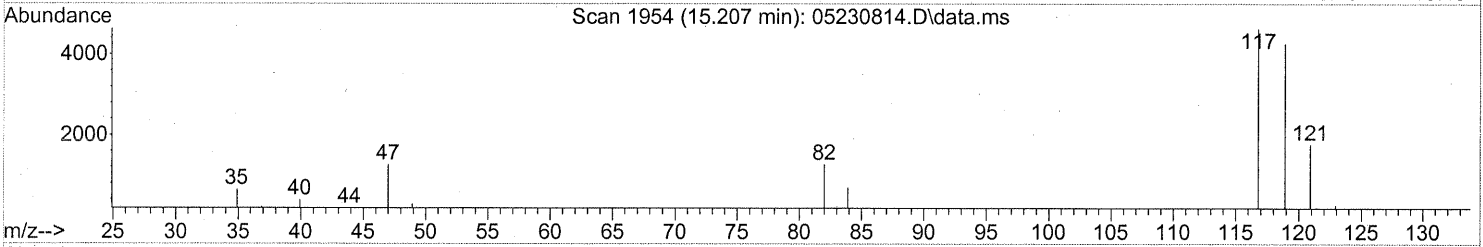
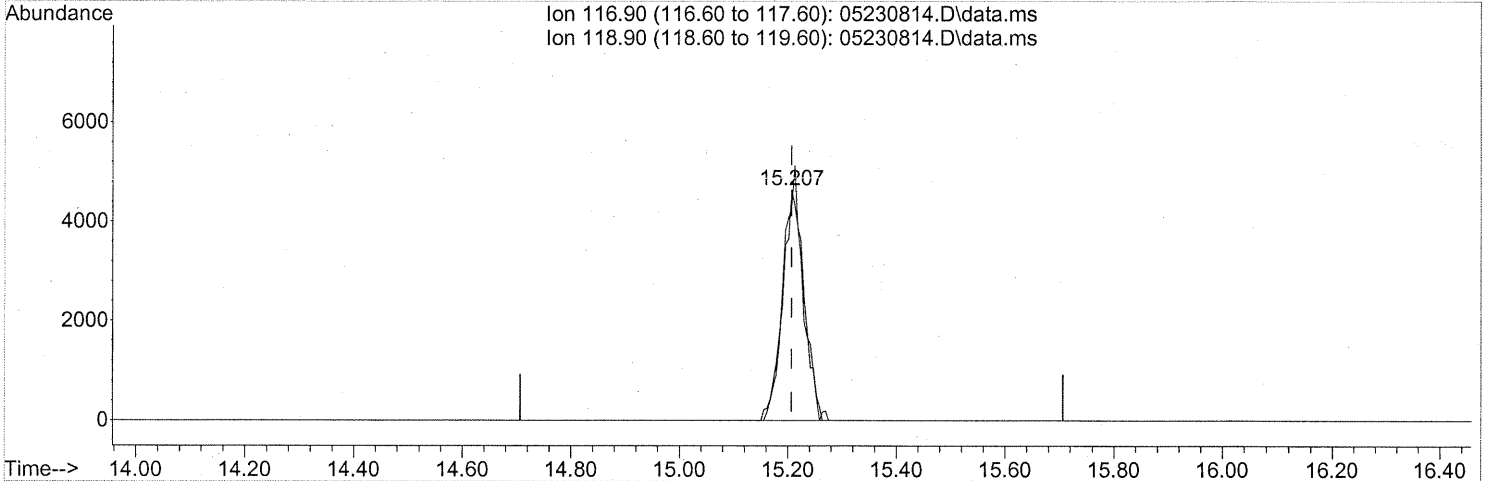
(41) Benzene (T)
14.985min (+0.006) 0.14ng
response 16286

| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 24.51 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230814.D\data.ms

(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.29ng

response 12823

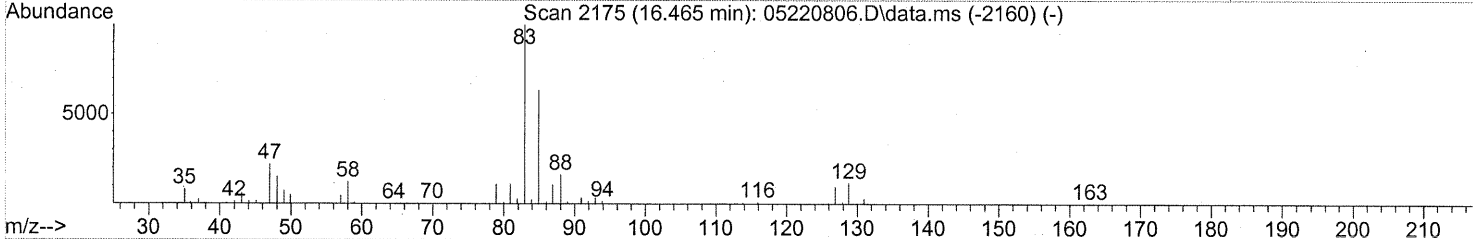
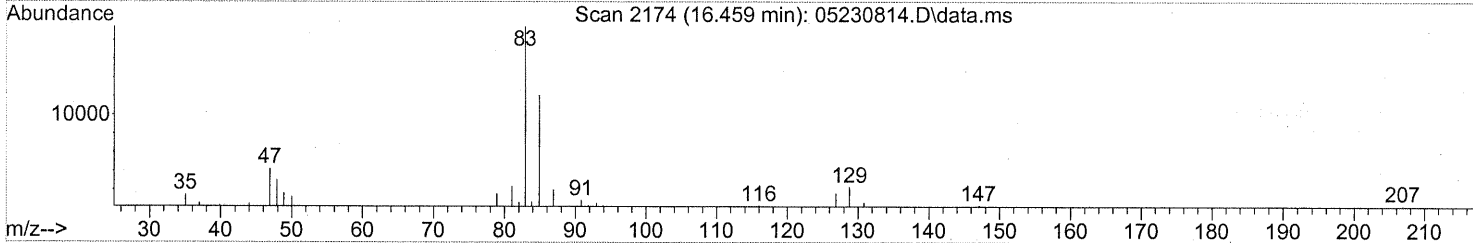
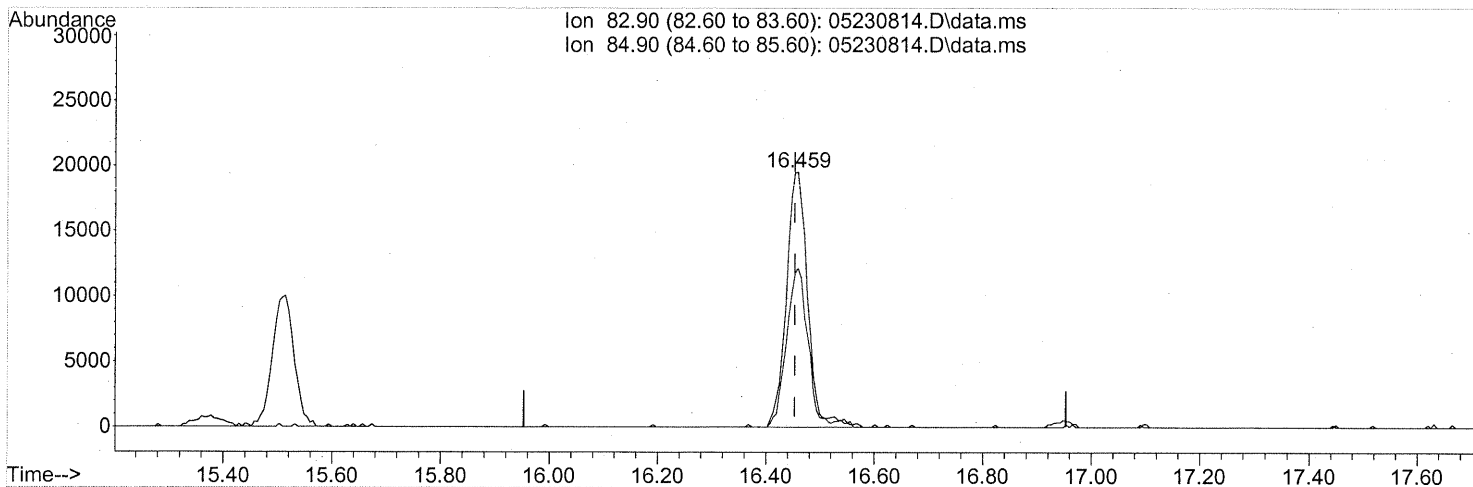
| Ion | Exp% | Act% |
|--------|-------|--------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 100.36 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1618

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230814.D
Acq On : 23 May 2008 18:19
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 1.35ng

response 53099

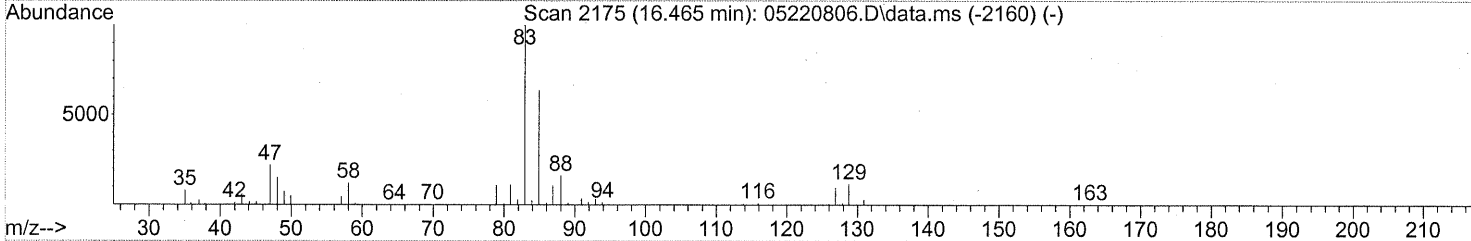
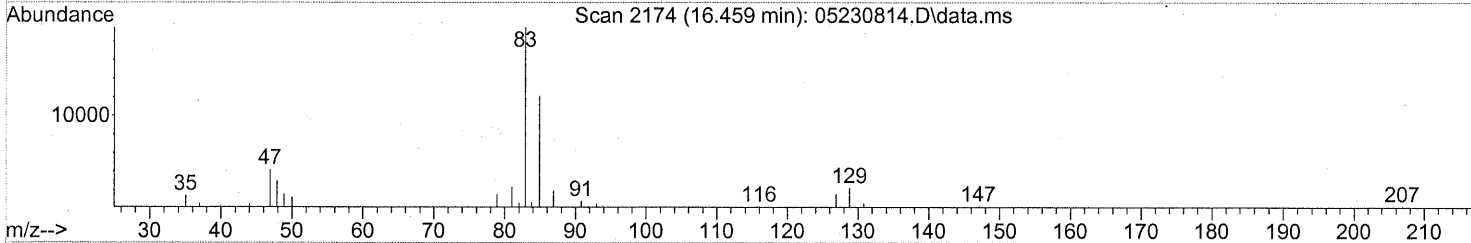
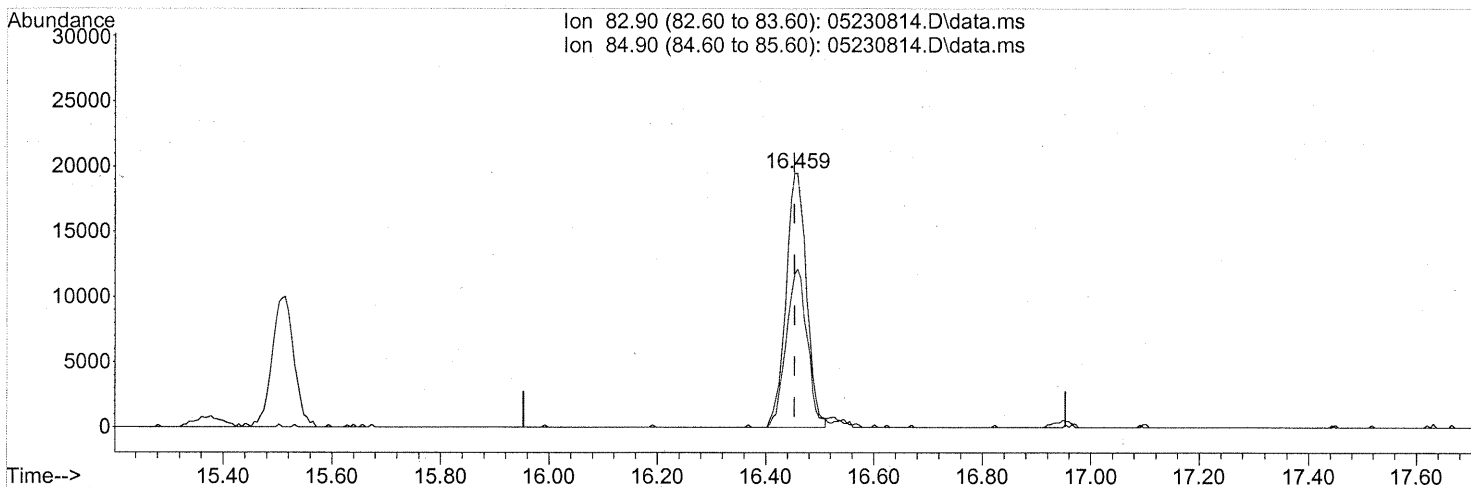
| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 62.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

tailing

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 1.31ng m

response 51423

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 64.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

10% tailing

PA 5/30/08

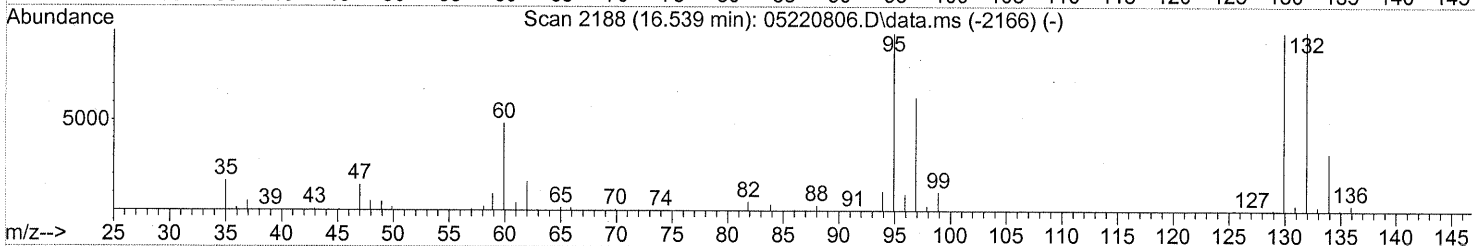
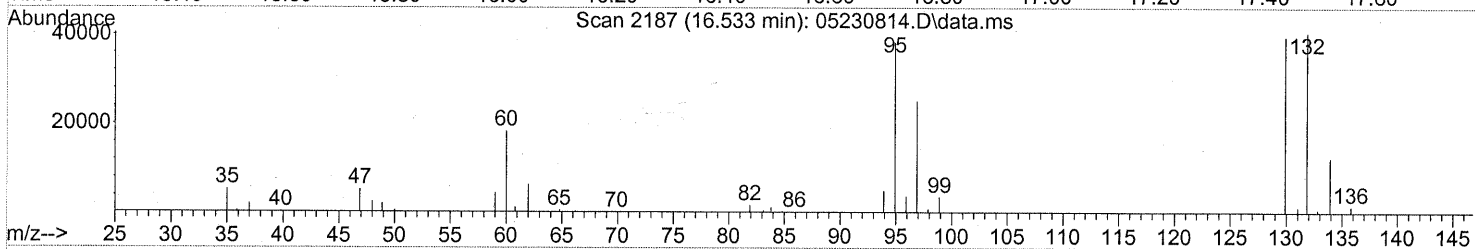
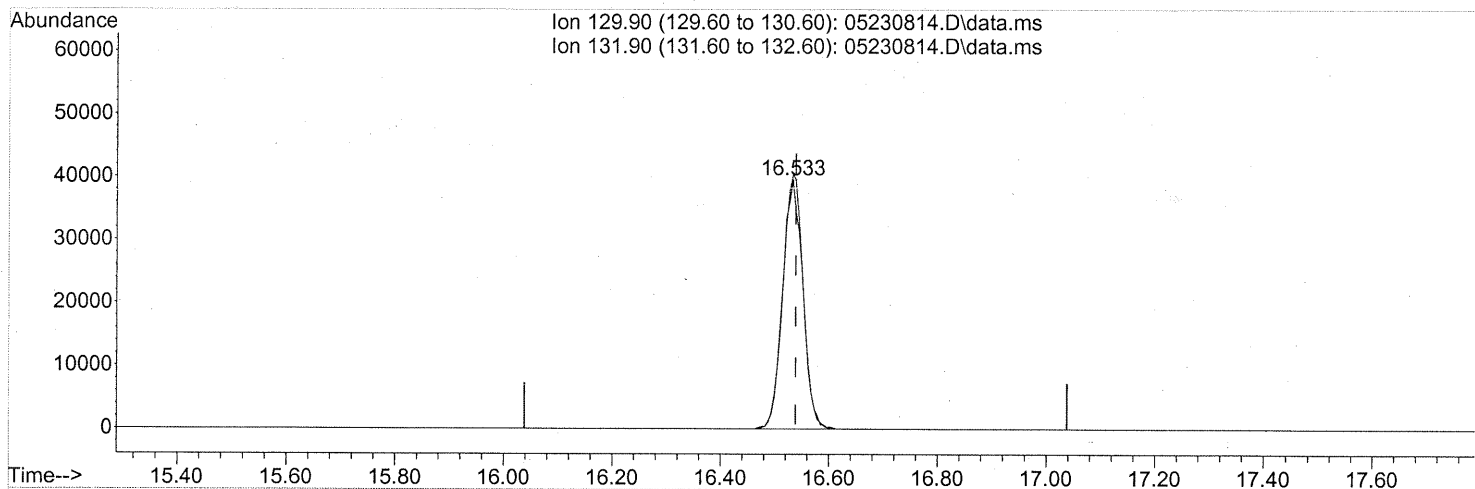
P 06/04/08

1620

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230814.D\data.ms

(47) Trichloroethene (T)
 16.533min (-0.006) 2.85ng
 response 101701

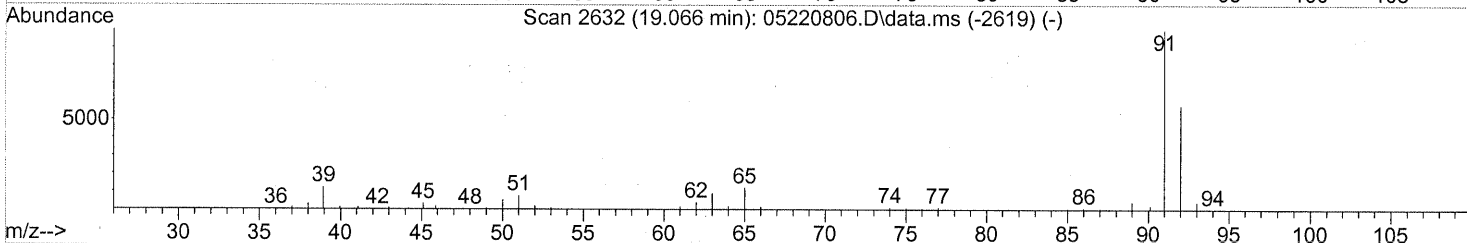
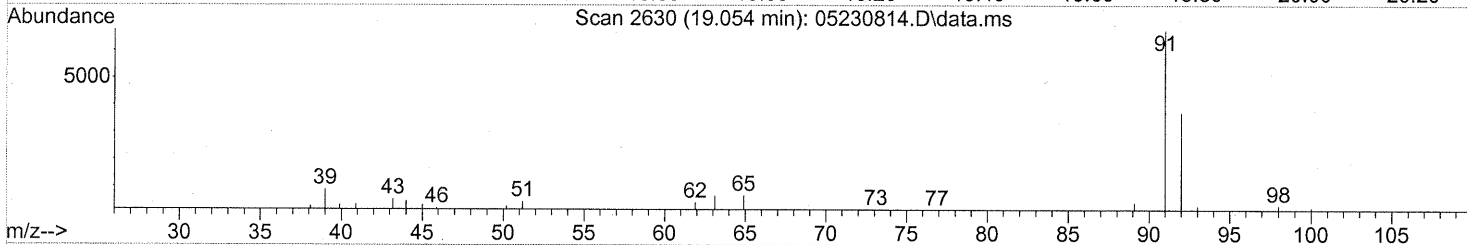
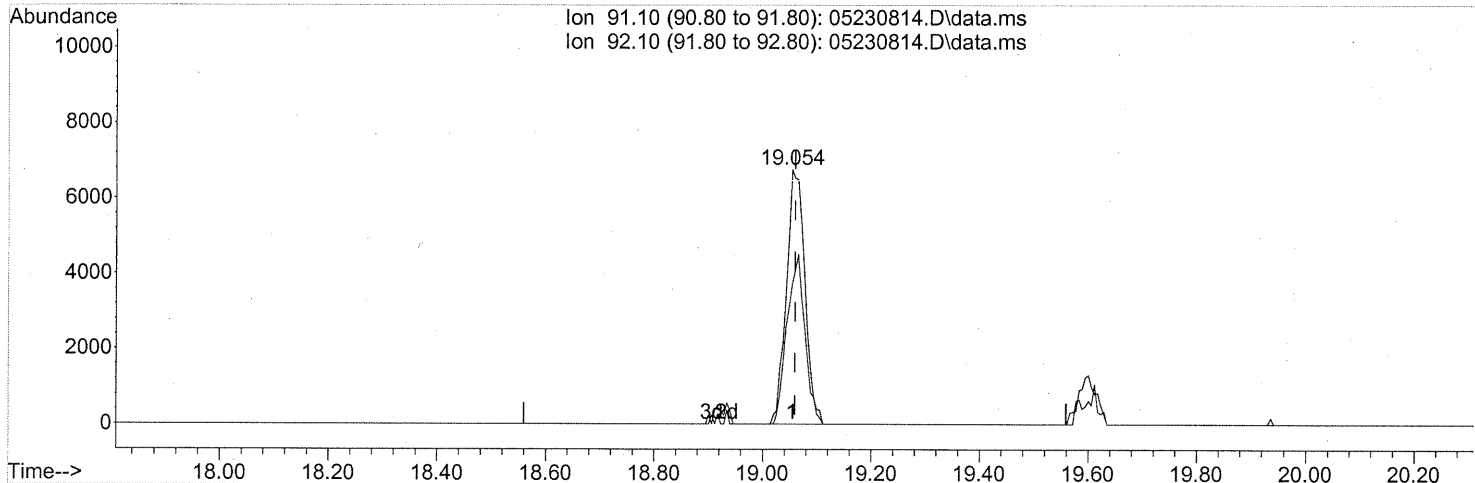
| Ion | Exp% | Act% |
|--------|--------|--------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 103.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1621

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230814.D\data.ms

(58) Toluene (T)

19.054min (-0.006) 0.13ng

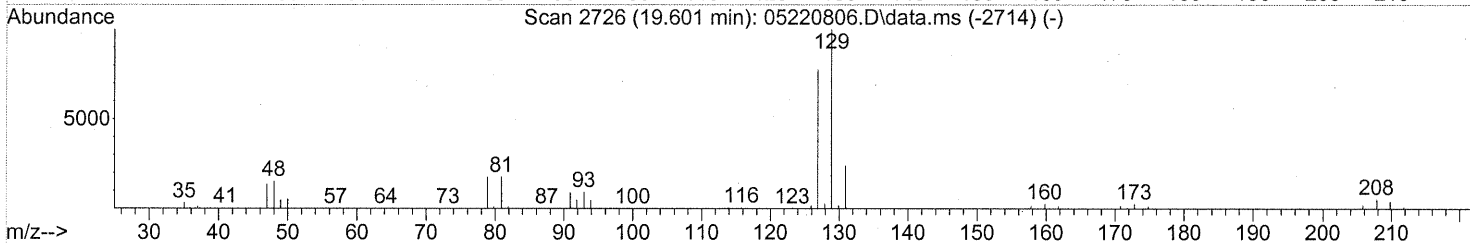
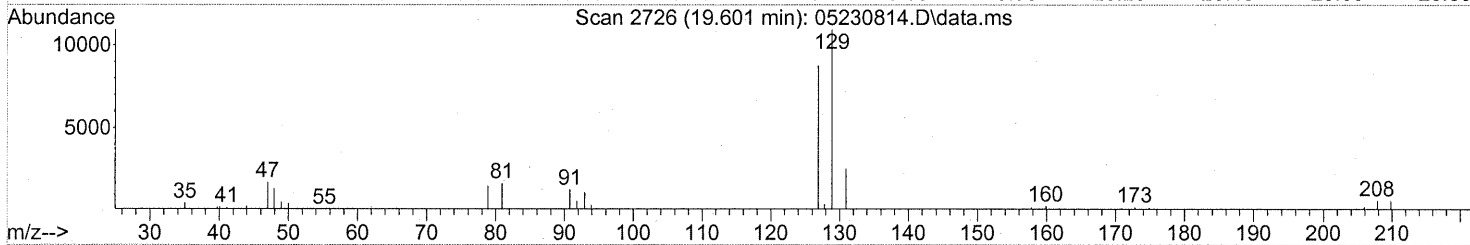
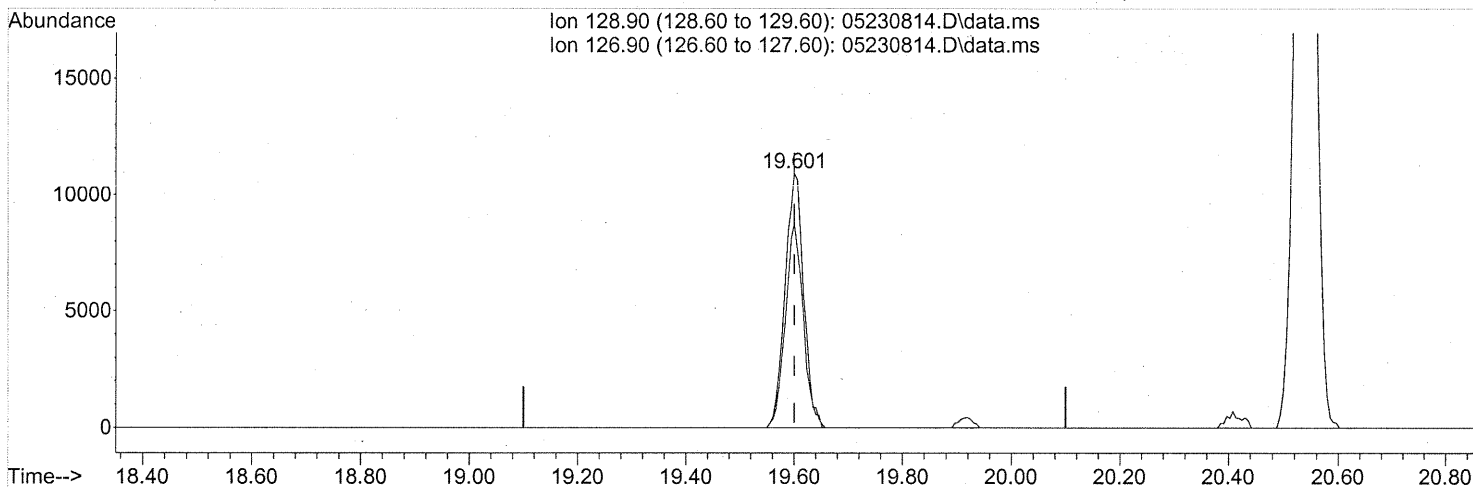
response 16084

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 64.40 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230814.D\data.ms

(60) Dibromochloromethane (T)

19.601min (-0.000) 0.76ng

response 25996

Ion Exp% Act%

128.90 100 100

126.90 76.90 77.31

0.00 0.00 0.00

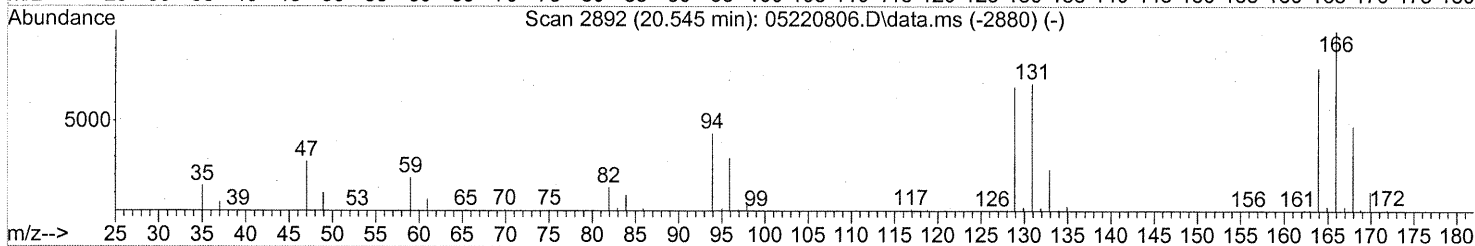
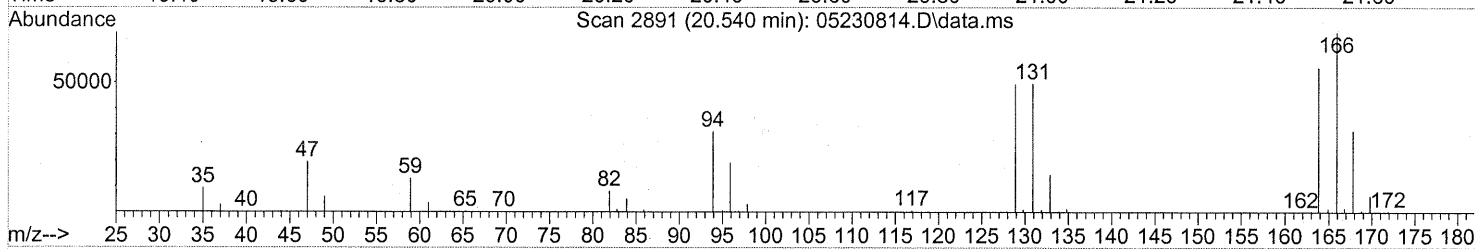
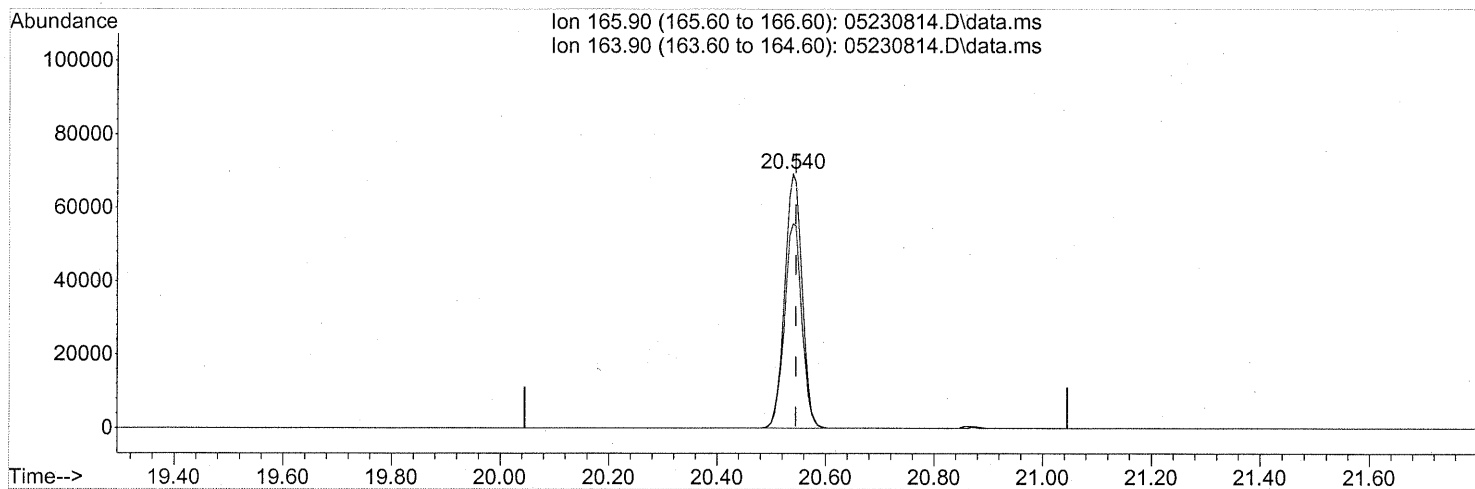
0.00 0.00 0.00

1623

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 4.11ng

response 154331

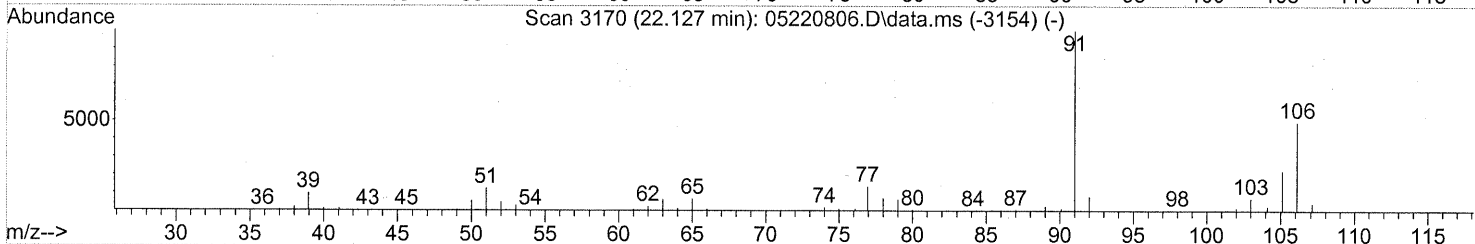
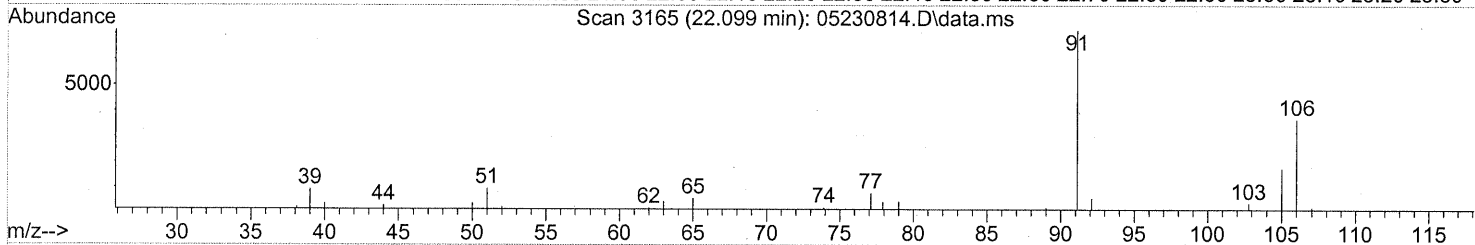
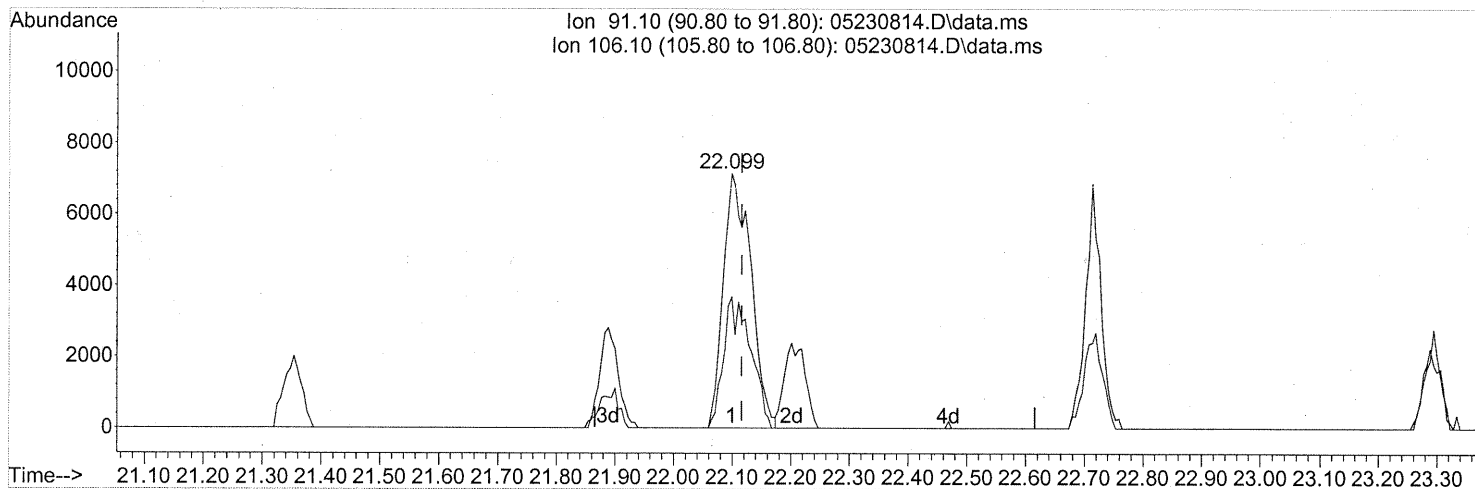
| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 79.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1624

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230814.D\data.ms

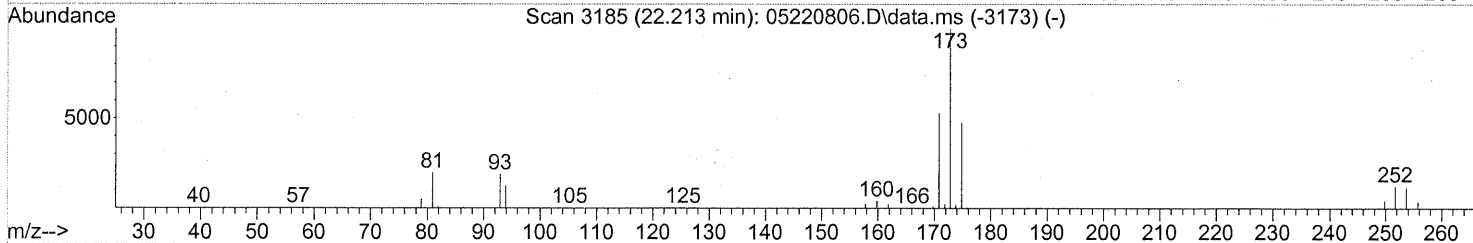
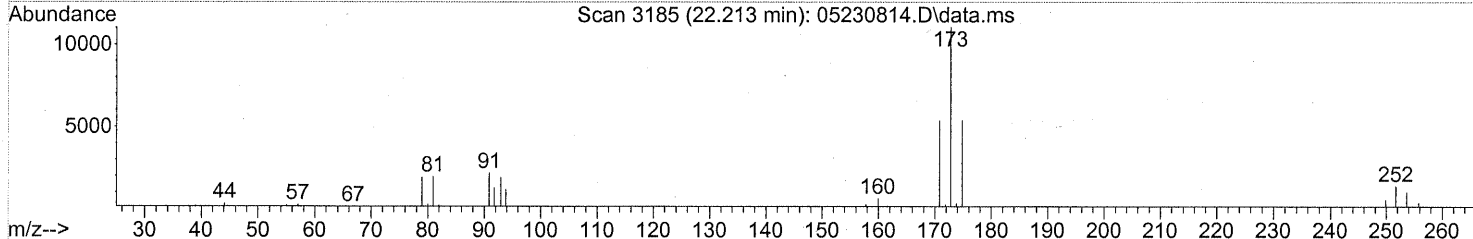
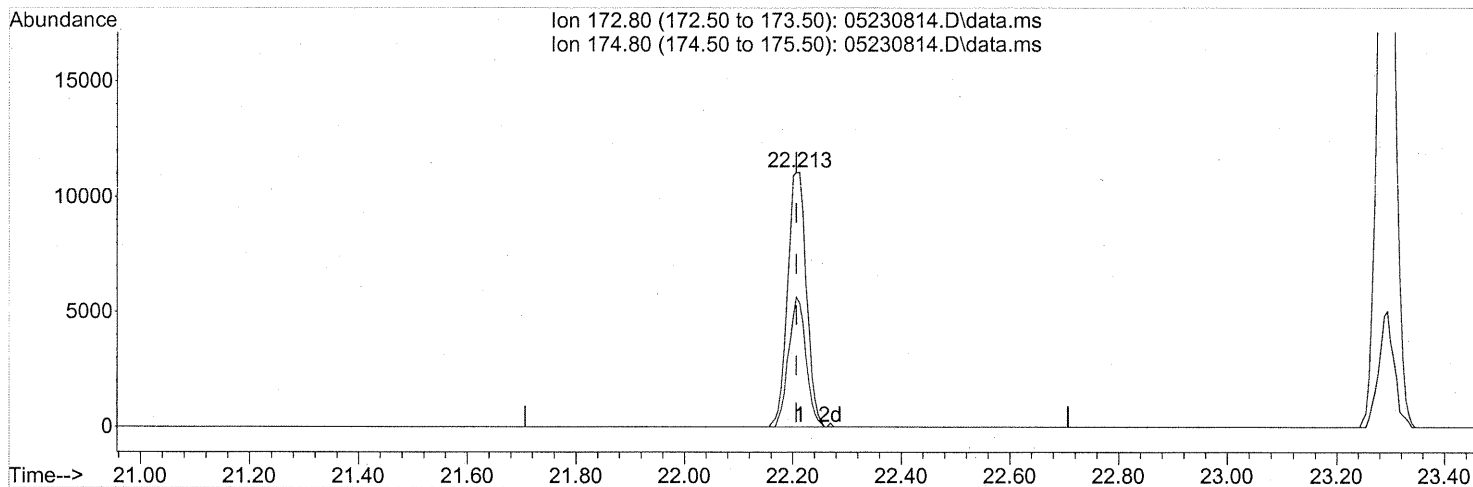
(67) m- & p-Xylene (T)
 22.099min (-0.017) 0.24ng
 response 23274

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 50.52 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(68) Bromoform (T)

22.213min (+0.006) 1.04ng

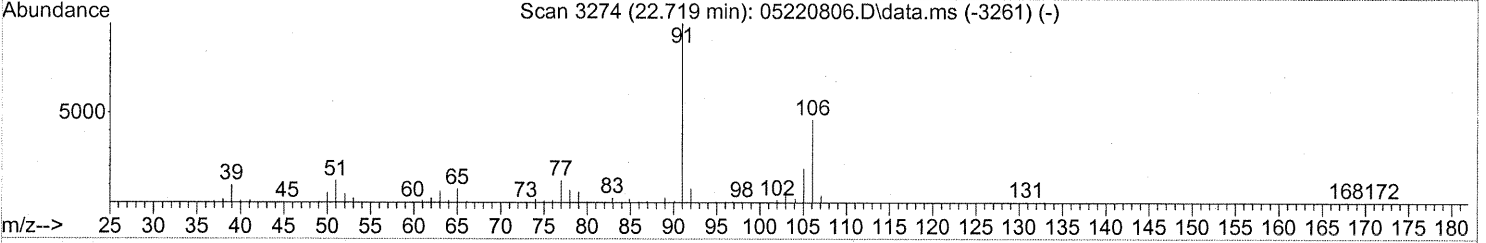
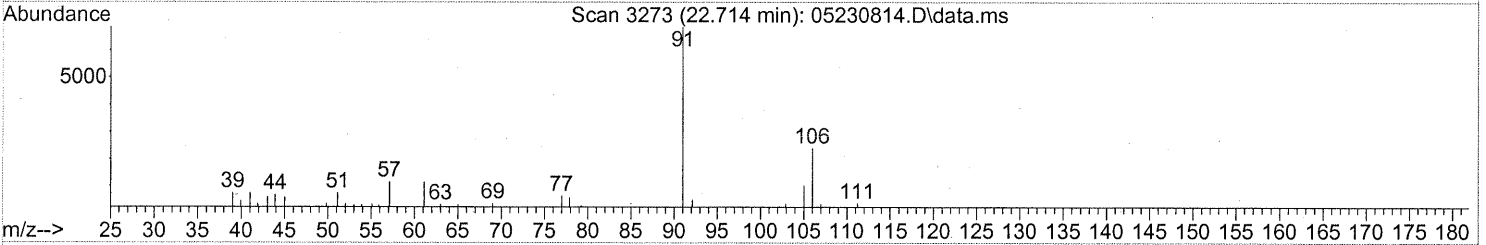
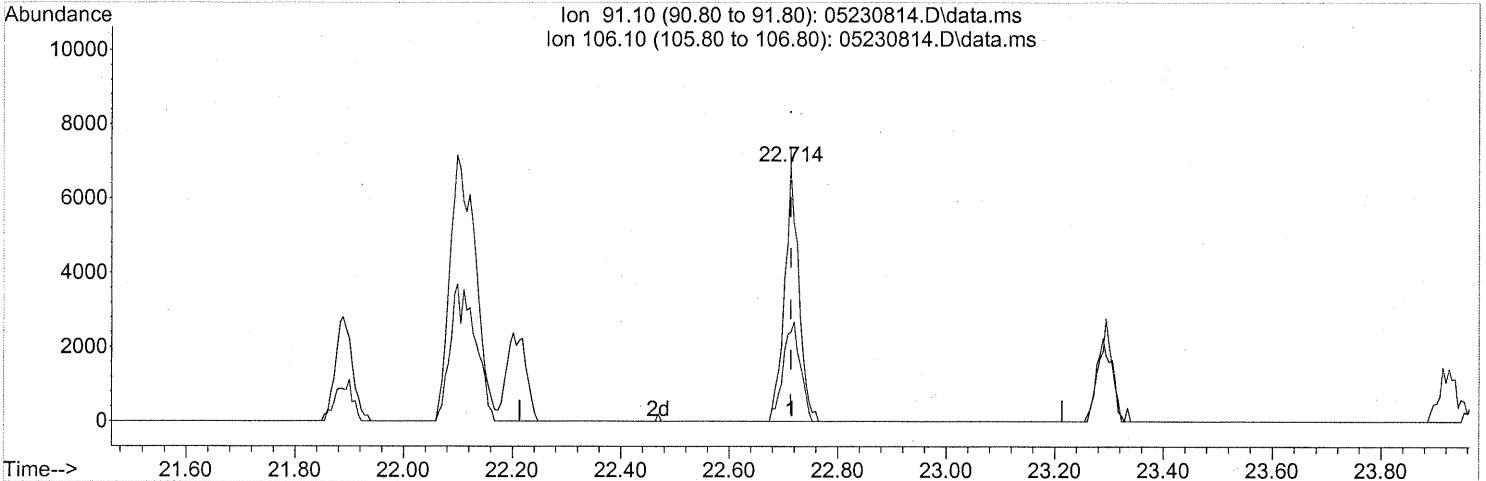
response 26434

| Ion | Exp% | Act% |
|--------|-------|-------|
| 172.80 | 100 | 100 |
| 174.80 | 49.40 | 47.18 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.714min (-0.000) 0.12ng
 response 12550

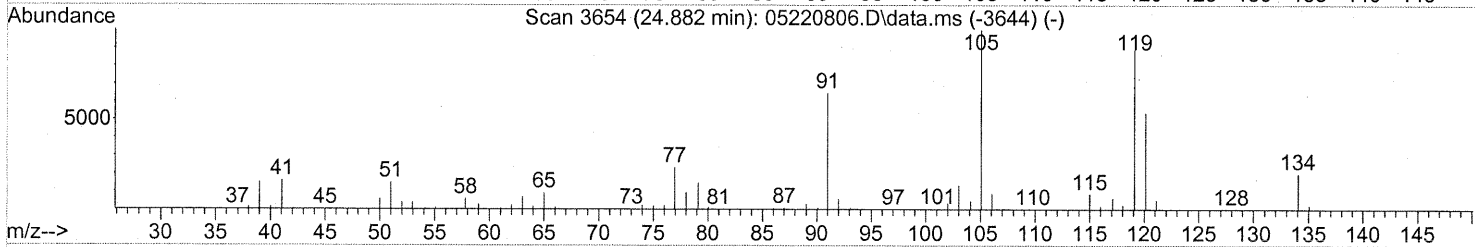
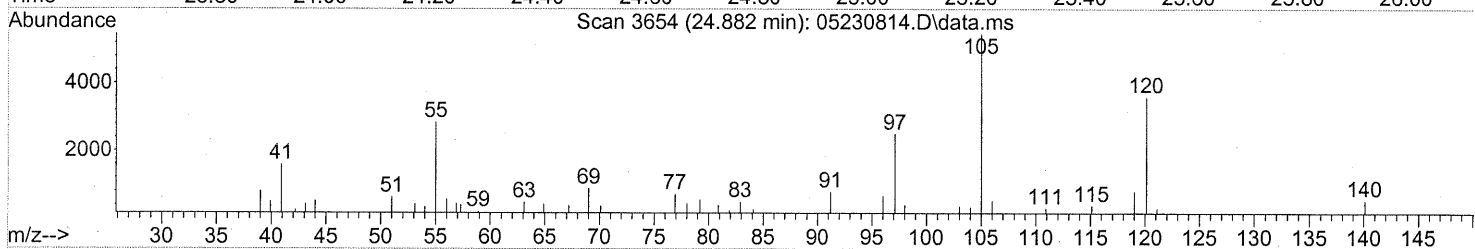
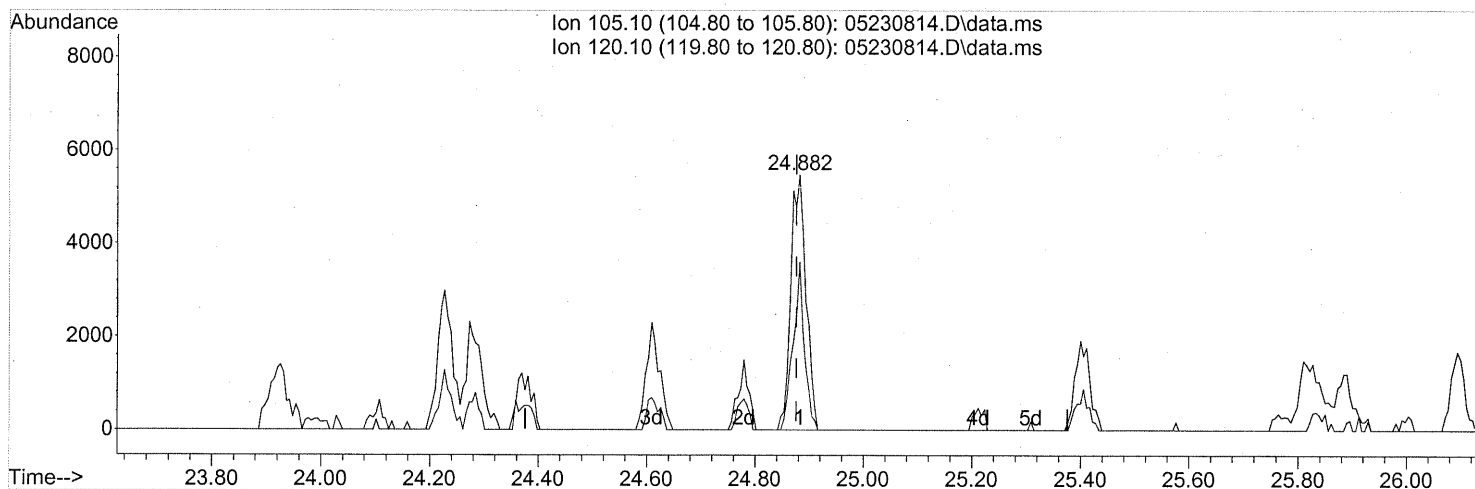
| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 46.66 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1627

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.882min (+0.006) 0.08ng

response 10564

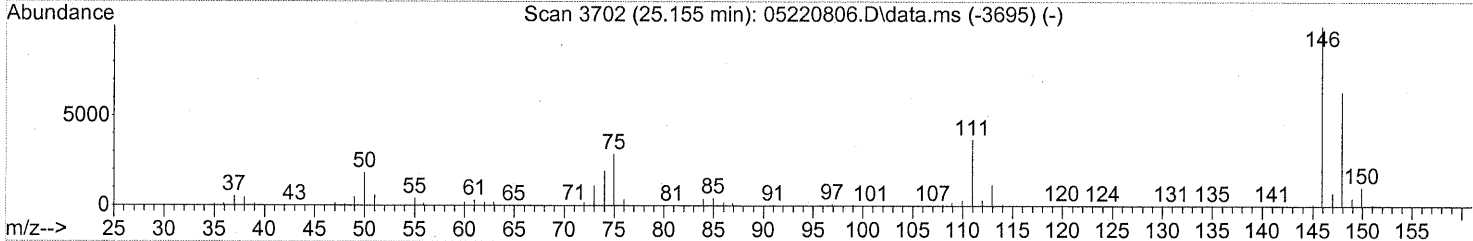
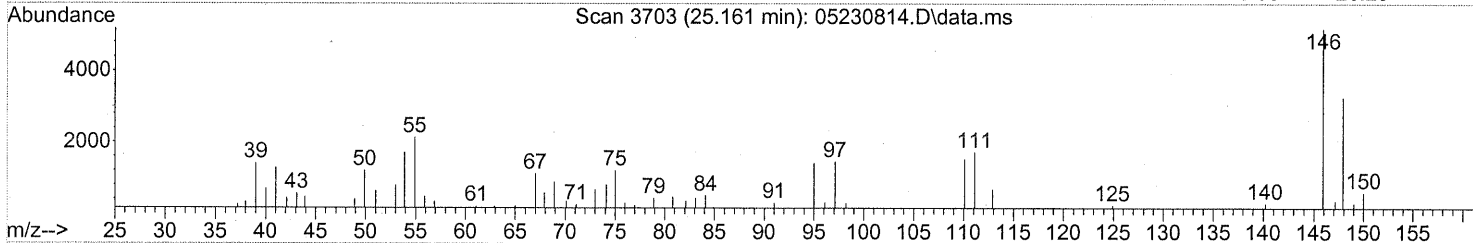
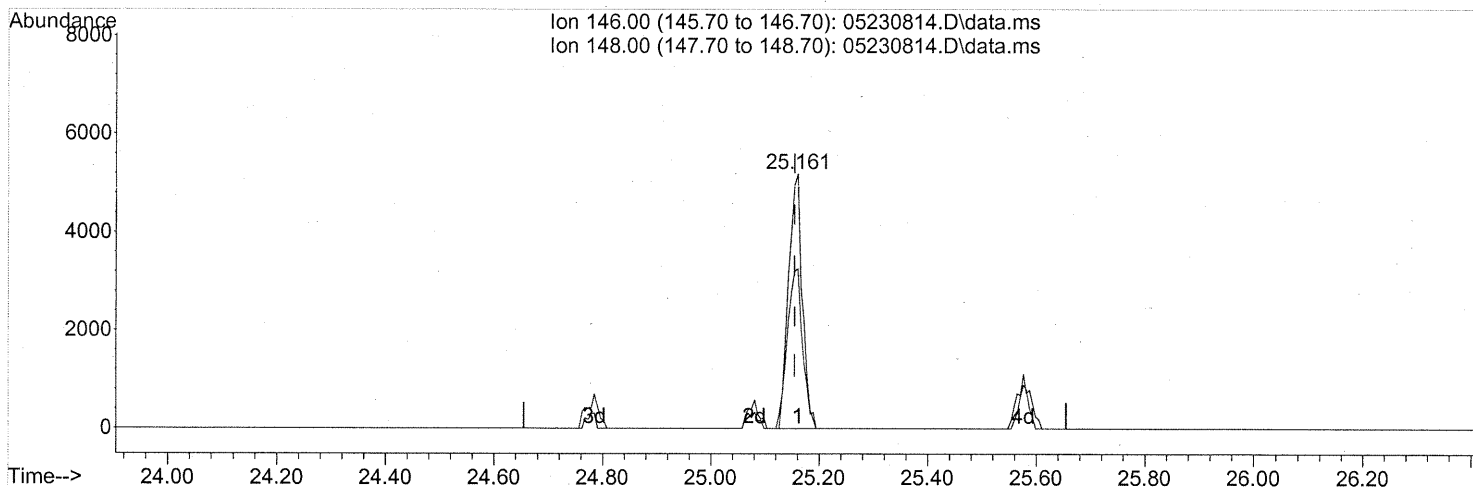
| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 48.53 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1628

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 29 09:46:39 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05230814.D\data.ms

(86) 1,4-Dichlorobenzene (T)

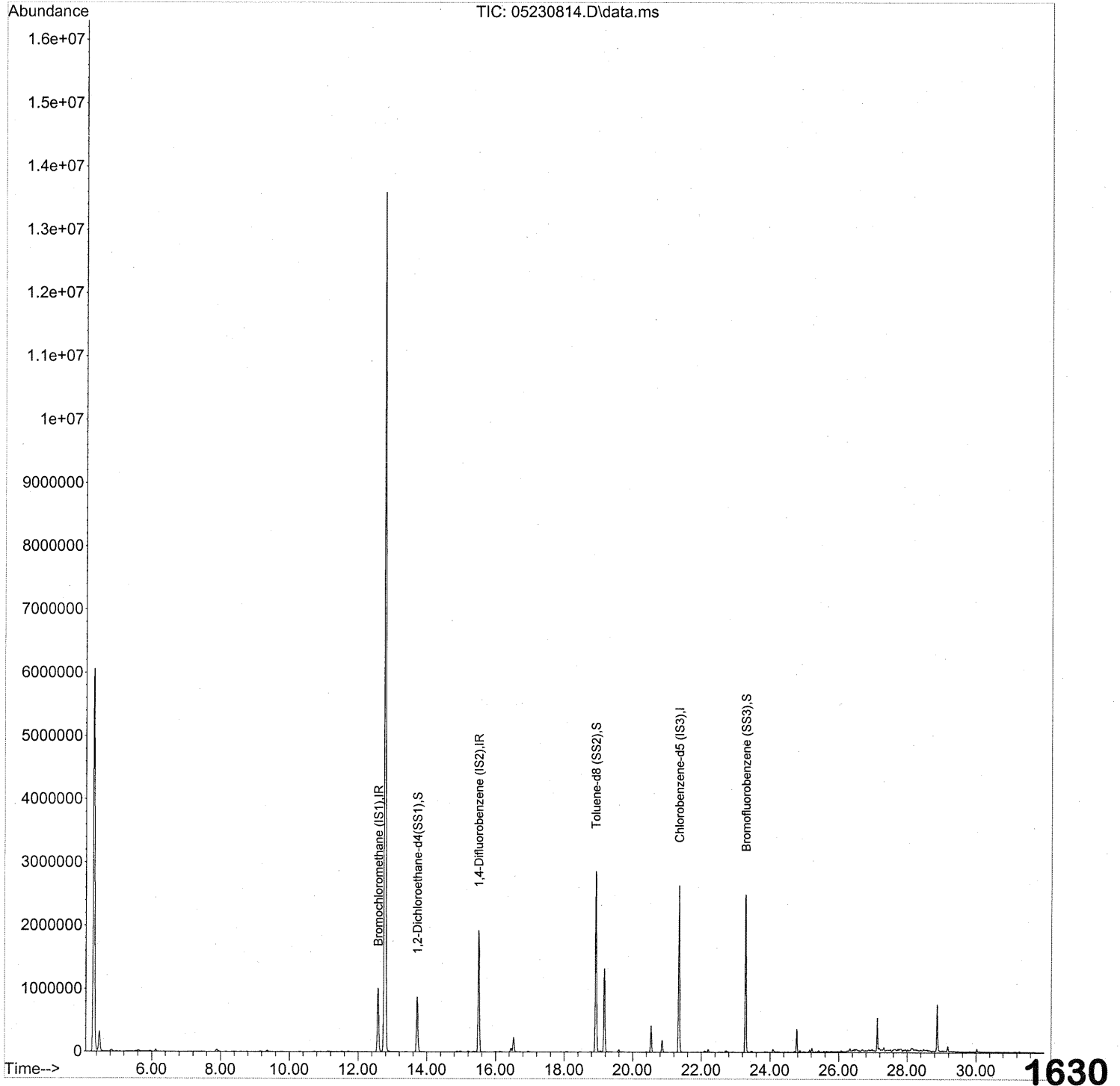
25.161min (+0.006) 0.12ng

response 9141

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 68.44 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230814.D
Acq On : 23 May 2008 18:19
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 17:09:39 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230814.D
 Acq On : 23 May 2008 18:19
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 17:09:39 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

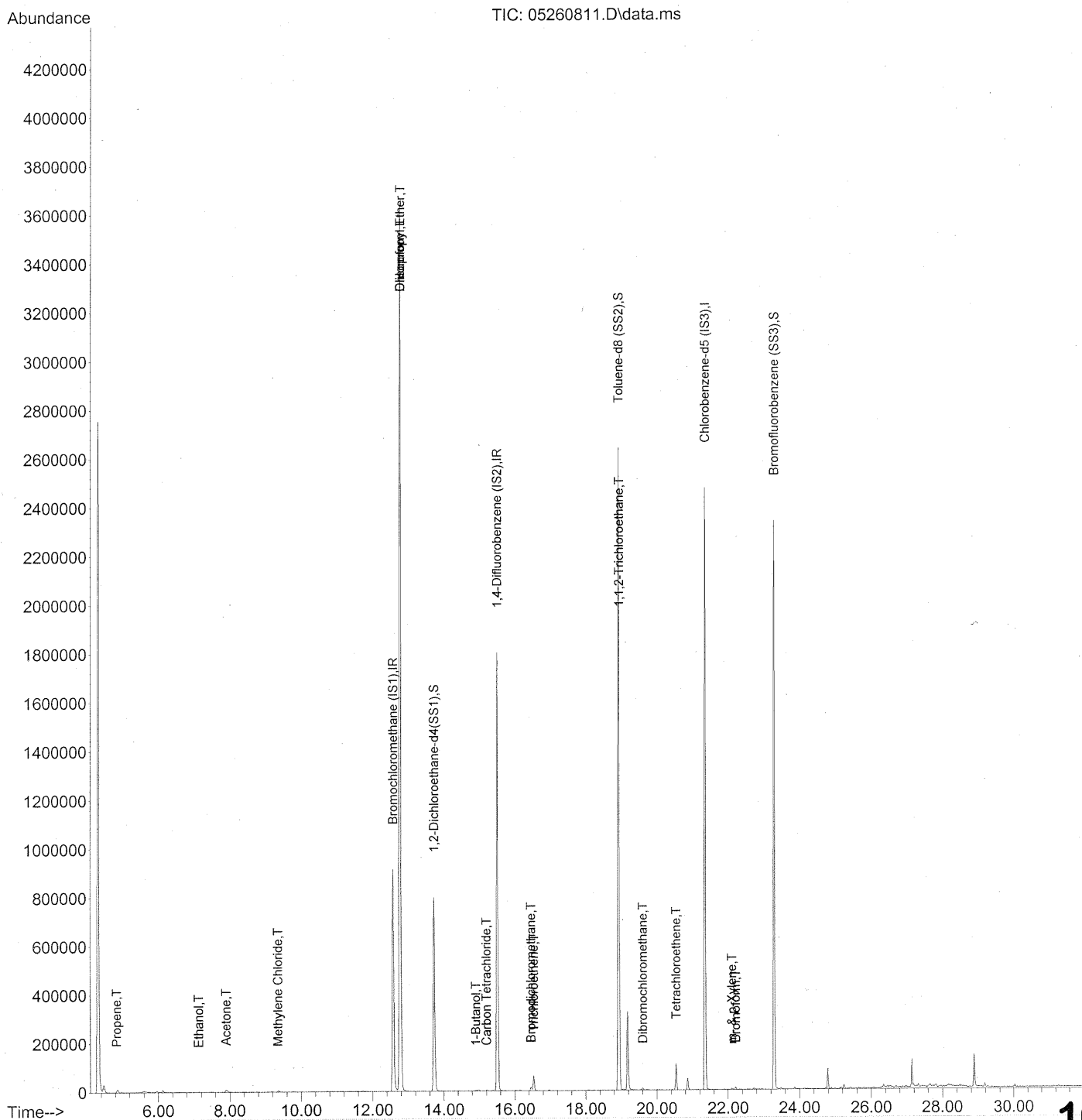
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 524459 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2224929 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1039261 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 889709 | 24.483 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 97.92% | |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 2359769 | 25.283 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 101.12% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 941646 | 24.810 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.24% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 1508 | N.D. | | Qvalue |
| 8) n-Butylbenzene | 25.91 | 91 | 2632 | N.D. | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1631

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260811.D
 Acq On : 26 May 2008 18:36
 Operator : WA
 Sample : P0801483-002 Dup Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1632

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260811.D
 Acq On : 26 May 2008 18:36
 Operator : WA
 Sample : P0801483-002 Dup Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 481030 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2083930 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 966660 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 825383 | 24.764 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.04% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2201127 | 25.354 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.40% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 885689 | 25.088 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.36% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.83 | 42 | 2997 | 0.079 | ng | # 35 |
| 3) Dichlorodifluoromethane | 4.99 | 85 | 1740 | N.D. | | |
| 4) Chloromethane | 5.34 | 50 | 310 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 6.53 | 94 | 131 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.13 | 45 | 2152 | 0.085 | ng | 69 |
| 11) Acetonitrile | 7.48 | 41 | 2036 | N.D. | | |
| 12) Acrolein | 7.67 | 56 | 59 | N.D. | | |
| 13) Acetone | 7.89 | 58 | 6803 | 0.263 | ng | 89 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 686 | N.D. | | |
| 15) Isopropanol | 8.36 | 45 | 1103 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 9.17 | 96 | 1193 | N.D. | | |
| 18) tert-Butanol | 9.30 | 59 | 64 | N.D. | | |
| 19) Methylene Chloride | 9.35 | 84 | 3458 | 0.119 | ng | 93 |
| 20) Allyl Chloride | 0.00 | 41 | 0 | N.D. | | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | | |
| 22) Carbon Disulfide | 9.77 | 76 | 4096 | N.D. | | |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 11.08 | 63 | 188 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 26) Vinyl Acetate | 0.00 | 86 | 0 | N.D. | | |
| 27) 2-Butanone | 11.71 | 72 | 720 | N.D. | | |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 400867 | 17.310 | ng | # 1 |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 12.71 | 57 | 59 | N.D. | | |

1633

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260811.D
 Acq On : 26 May 2008 18:36
 Operator : WA
 Sample : P0801483-002 Dup Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 3832385 | 87.370 | ng | 100 |
| 34) Tetrahydrofuran | 0.00 | 72 | 0 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.73 | 62 | 756 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.90 | 56 | 3427 | 0.120 | ng | 87 |
| 41) Benzene | 14.99 | 78 | 5236 | N.D. | | |
| 42) Carbon Tetrachloride | 15.20 | 117 | 3177 | 0.076 | ng | 96 |
| 43) Cyclohexane | 15.49 | 84 | 1421 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 45) 1,2-Dichloropropane | 16.21 | 63 | 64 | N.D. | | |
| 46) Bromodichloromethane | 16.46 | 83 | 12859 | 0.349 | ng | 99 |
| 47) Trichloroethene | 16.53 | 130 | 26756 | 0.799 | ng | 98 |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | | |
| 49) Isooctane | 16.62 | 57 | 243 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 190892 | 7.080 | ng | # 8 |
| 58) Toluene | 19.07 | 91 | 4691 | N.D. | | |
| 59) 2-Hexanone | 19.42 | 43 | 109 | N.D. | | |
| 60) Dibromochloromethane | 19.60 | 129 | 6448 | 0.202 | ng | 100 |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.35 | 43 | 214 | N.D. | | |
| 63) n-Octane | 0.00 | 57 | 0 | N.D. | | |
| 64) Tetrachloroethene | 20.54 | 166 | 40602 | 1.163 | ng | 97 |
| 65) Chlorobenzene | 21.40 | 112 | 500 | N.D. | | |
| 66) Ethylbenzene | 21.89 | 91 | 1812 | N.D. | | |
| 67) m- & p-Xylene | 22.10 | 91 | 6012 | 0.066 | ng | 91 |
| 68) Bromoform | 22.21 | 173 | 6349 | 0.268 | ng | 97 |
| 69) Styrene | 22.58 | 104 | 108 | N.D. | | |
| 70) o-Xylene | 22.72 | 91 | 3377 | N.D. | | |
| 71) n-Nonane | 22.97 | 43 | 62 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | N.D. | | |
| 74) Cumene | 23.29 | 105 | 1342 | N.D. | | |
| 75) alpha-Pinene | 23.85 | 93 | 55 | N.D. | | |
| 76) n-Propylbenzene | 24.11 | 91 | 866 | N.D. | | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 1068 | N.D. | | |
| 78) 4-Ethyltoluene | 24.28 | 105 | 1108 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 536 | N.D. | | |

1634

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260811.D
Acq On : 26 May 2008 18:36
Operator : WA
Sample : P0801483-002 Dup Dil (20ml)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:19 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

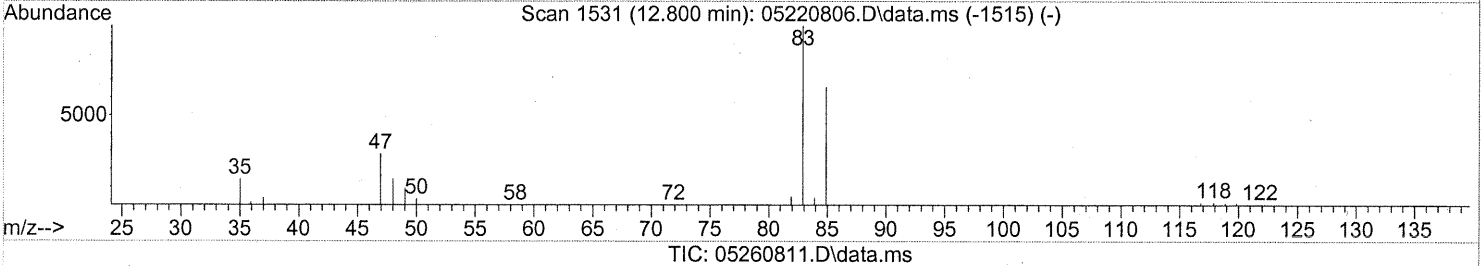
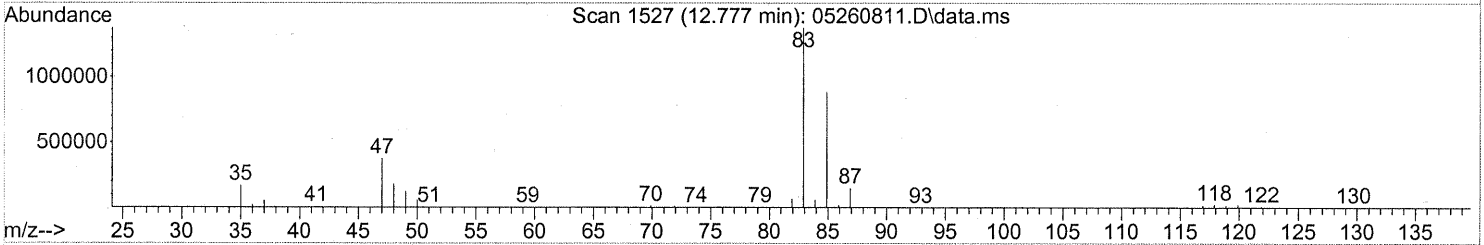
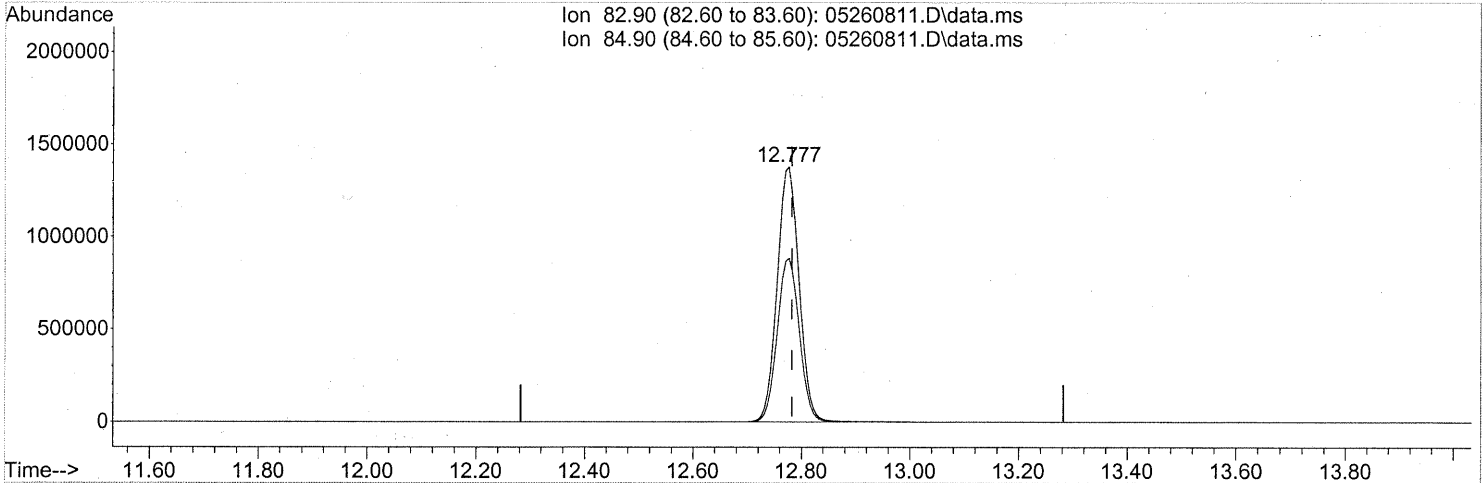
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|------|-------|----------|
| 80) alpha-Methylstyrene | 24.77 | 118 | 1632 | | N.D. | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 899 | | N.D. | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 2685 | | N.D. | |
| 83) n-Decane | 24.98 | 57 | 1588 | | N.D. | |
| 84) Benzyl Chloride | 25.09 | 91 | 51 | | N.D. | |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 189 | | N.D. | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 2649 | | N.D. | |
| 87) sec-Butylbenzene | 25.42 | 105 | 983 | | N.D. | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 748 | | N.D. | |
| 89) 1,2,3-Trimethylbenzene | 25.42 | 105 | 983 | | N.D. | |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 391 | | N.D. | |
| 91) d-Limonene | 25.58 | 68 | 484 | | N.D. | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | | N.D. | |
| 93) n-Undecane | 26.51 | 57 | 3133 | | N.D. | |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 569 | | N.D. | |
| 95) Naphthalene | 27.78 | 128 | 4041 | | N.D. | |
| 96) n-Dodecane | 27.74 | 57 | 3343 | | N.D. | |
| 97) Hexachloro-1,3-butadiene | 0.00 | 225 | 0 | | N.D. | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260811.D
 Acq On : 26 May 2008 18:36
 Operator : WA
 Sample : P0801483-002 Dup Dil (20ml)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 06:13:19 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(32) Chloroform (T)
 12.777min (-0.006) 87.37ng
 response 3832385

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 64.63 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: ENSR

Client Sample ID: SG27B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-018DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00931

Date Collected: 5/16/08

Date Received: 5/20/08

Date Analyzed: 5/27 - 5/28/08

Volume(s) Analyzed: 0.50 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

| Compound | Sample Result | | Duplicate Sample Result | | Average $\mu\text{g}/\text{m}^3$ | % RPD | RPD Limit | Data Qualifier |
|--|--------------------------|--------|--------------------------|--------|----------------------------------|------------|-----------|----------------|
| | $\mu\text{g}/\text{m}^3$ | ppbV | $\mu\text{g}/\text{m}^3$ | ppbV | | | | |
| Dichlorodifluoromethane (CFC 12) | 2.03 | 0.410 | 2.02 | 0.408 | 2.025 | 0.5 | 25 | |
| Chloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| Bromomethane | ND | ND | ND | ND | - | - | 25 | |
| Chloroethane | ND | ND | ND | ND | - | - | 25 | |
| Ethanol | 6.33 | 3.36 | 6.36 | 3.38 | 6.345 | 0.5 | 25 | J, B |
| Acetone | 14.4 | 6.08 | 15.0 | 6.31 | 14.7 | 4 | 25 | J, B |
| Trichlorofluoromethane | 1.10 | 0.196 | 1.02 | 0.182 | 1.06 | 8 | 25 | |
| Acrylonitrile | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethene | 1.65 | 0.416 | 1.63 | 0.412 | 1.64 | 1 | 25 | |
| 2-Methyl-2-Propanol (tert-Butyl Alcohol) | 0.876 | 0.289 | 0.588 | 0.194 | 0.732 | 39 | 25 | J, D |
| Methylene Chloride | 0.206 | 0.0593 | 0.186 | 0.0535 | 0.196 | 10 | 25 | J |
| 3-Chloro-1-propene (Allyl Chloride) | ND | ND | ND | ND | - | - | 25 | |
| Trichlorotrifluoroethane | 0.461 | 0.0602 | 0.485 | 0.0633 | 0.473 | 5 | 25 | |
| Carbon Disulfide | 0.976 | 0.314 | 0.993 | 0.319 | 0.9845 | 2 | 25 | J, B |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethane | 0.229 | 0.0566 | 0.219 | 0.0542 | 0.224 | 4 | 25 | J |
| Methyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Acetate | 5.97 | 1.70 | 5.88 | 1.67 | 5.925 | 2 | 25 | J, B |
| 2-Butanone (MEK) | 5.05 | 1.71 | 5.08 | 1.72 | 5.065 | 0.6 | 25 | B |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Diisopropyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Chloroform | 944 | 193 | 944 | 193 | 944 | 0 | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

D = Duplicate precision not within the specified limits; however, the results are below the method reporting limit and estimated as specified.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/4/08

1637

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: ENSR

Client Sample ID: SG27B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-018DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00931

Date Collected: 5/16/08

Date Received: 5/20/08

Date Analyzed: 5/27 - 5/28/08

Volume(s) Analyzed: 0.50 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-----------------------------|-------------------|--------|-------------------------|--------|------------------------------|------------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Ethyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Benzene | 2.20 | 0.688 | 2.21 | 0.693 | 2.205 | 0.5 | 25 | |
| Carbon Tetrachloride | 9.72 | 1.55 | 9.59 | 1.53 | 9.655 | 1 | 25 | |
| tert-Amyl Methyl Ether | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloropropane | 0.216 | 0.0467 | 0.196 | 0.0424 | 0.206 | 10 | 25 | J |
| Bromodichloromethane | 0.647 | 0.0967 | 0.657 | 0.0982 | 0.652 | 2 | 25 | |
| Trichloroethene | 0.734 | 0.137 | 0.784 | 0.146 | 0.759 | 7 | 25 | |
| 1,4-Dioxane | ND | ND | ND | ND | - | - | 25 | |
| Methyl Methacrylate | ND | ND | ND | ND | - | - | 25 | |
| n-Heptane | ND | ND | ND | ND | - | - | 25 | |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 4-Methyl-2-pentanone | 0.199 | 0.0486 | 0.292 | 0.0713 | 0.2455 | 38 | 25 | J, D |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Toluene | 2.74 | 0.727 | 2.75 | 0.731 | 2.745 | 0.4 | 25 | |
| 2-Hexanone | 0.538 | 0.131 | 0.501 | 0.122 | 0.5195 | 7 | 25 | J |
| Dibromochloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromoethane | ND | ND | ND | ND | - | - | 25 | |
| n-Octane | ND | ND | ND | ND | - | - | 25 | |
| Tetrachloroethene | 6.41 | 0.946 | 6.52 | 0.961 | 6.465 | 2 | 25 | |
| Chlorobenzene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

D = Duplicate precision not within the specified limits; however the results below the method reporting limit are estimated as specified.

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: ENSR

Client Sample ID: SG27B-05

Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

CAS Sample ID: P0801483-018DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00931

Date Collected: 5/16/08

Date Received: 5/20/08

Date Analyzed: 5/27 - 5/28/08

Volume(s) Analyzed: 0.50 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-------------------------------|-------------------|--------|-------------------------|--------|------------------------------|------------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Ethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| m,p-Xylenes | 0.488 | 0.112 | 0.471 | 0.109 | 0.4795 | 4 | 25 | J |
| Bromoform | ND | ND | ND | ND | - | - | 25 | |
| Styrene | ND | ND | ND | ND | - | - | 25 | |
| o-Xylene | 0.256 | 0.0589 | 0.209 | 0.0482 | 0.2325 | 20 | 25 | J |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | - | - | 25 | |
| Cumene | ND | ND | ND | ND | - | - | 25 | |
| n-Propylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Ethyltoluene | ND | ND | ND | ND | - | - | 25 | |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| alpha-Methylstyrene | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trimethylbenzene | 0.432 | 0.0878 | 0.425 | 0.0865 | 0.4285 | 2 | 25 | J |
| Benzyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,4-Dichlorobenzene | 12.5 | 2.08 | 12.4 | 2.06 | 12.45 | 0.8 | 25 | |
| sec-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Isopropyltoluene (p-Cymene) | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Naphthalene | 2.32 | 0.443 | 2.25 | 0.430 | 2.285 | 3 | 25 | |
| Hexachlorobutadiene | 2.67 | 0.250 | 2.71 | 0.254 | 2.69 | 1 | 25 | |
| tert-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |
| n-Butylbenzene | 0.183 | 0.0333 | 0.222 | 0.0405 | 0.2025 | 19 | 25 | J, M |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

M = Matrix interference due to coelution with a non-target compound; results may be biased high.

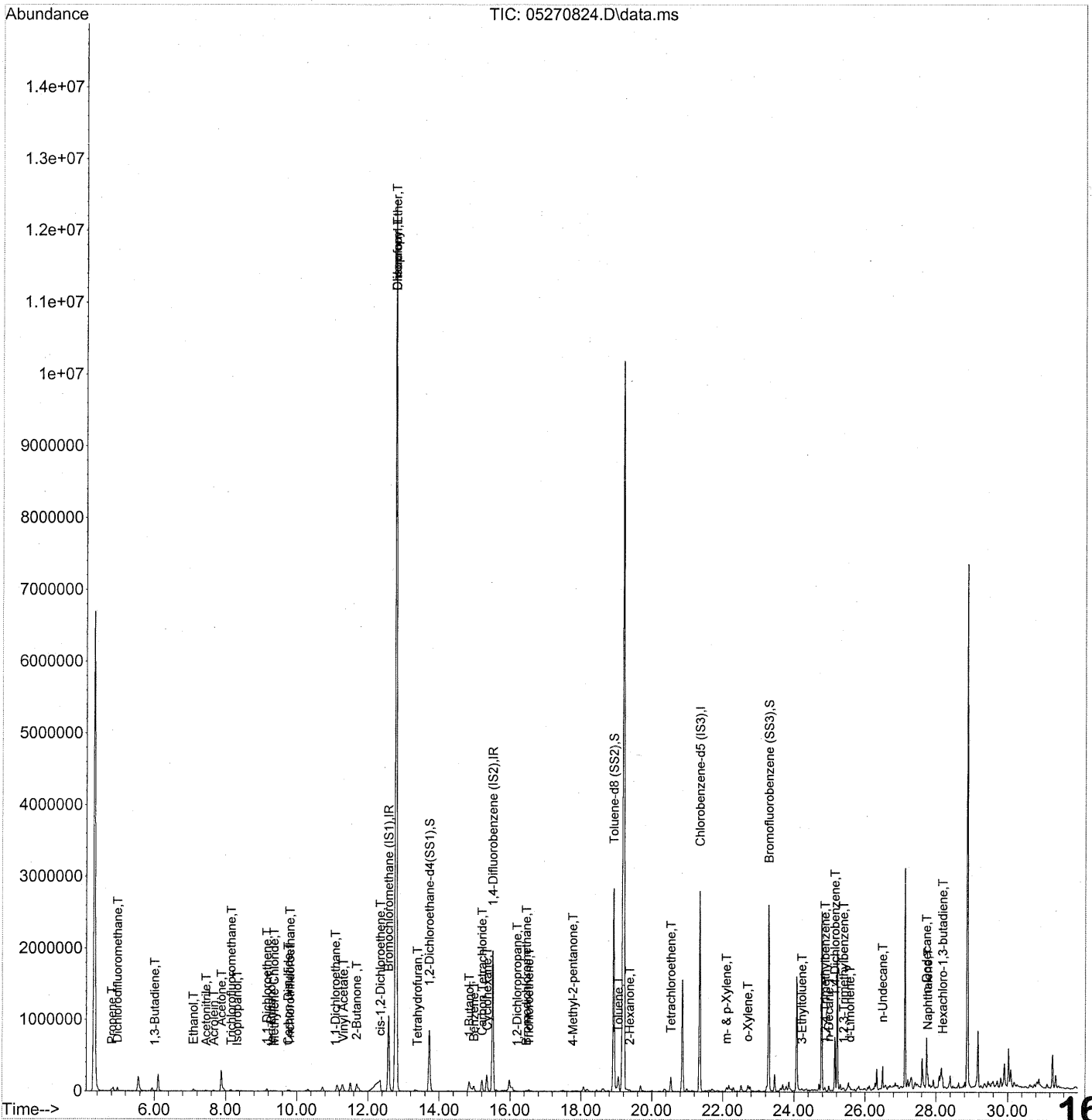
Verified By:

Date: 6/4/08

1639

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:57:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1640

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:57:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 563725 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2340601 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1086433 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 871825 | 22.320 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 89.28% | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2406143 | 24.660 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 98.64% | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 1009783 | 25.450 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.80% | |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|---------|--------|----|---------|
| 2) Propene | 4.81 | 42 | 15825 | 0.355 | ng | # 63 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 49890 | 0.608 | ng | 99 |
| 4) Chloromethane | 5.27 | 50 | 63 | N.D. | ✓ | |
| 5) Freon 114 | 5.54 | 135 | 1137 | N.D. | ✓ | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 6.01 | 54 | 2333 | 0.059 | ng | # 69 |
| 8) Bromomethane | 6.48 | 94 | 487 | N.D. | ✓ | |
| 9) Chloroethane | 6.83 | 64 | 436 | N.D. | ✓ | |
| 10) Ethanol | 7.10 | 45 | 56755m | 1.915 | ng | |
| 11) Acetonitrile | 7.45 | 41 | 20237 | 0.236 | ng | 99 |
| 12) Acrolein | 7.67 | 56 | 12664 | 0.598 | ng | 97 |
| 13) Acetone | 7.88 | 58 | 136990 | 4.514 | ng | # 66 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 21671 | 0.308 | ng | 98 |
| 15) Isopropanol | 8.33 | 45 | 24607 | 0.254 | ng | 92 |
| 16) Acrylonitrile | 8.67 | 53 | 768 | N.D. | ✓ | |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 15230 | 0.492 | ng | # 75 |
| 18) tert-Butanol | 9.28 | 59 | 19693m | 0.239 | ng | |
| 19) Methylene Chloride | 9.36 | 84 | 1902 | 0.056 | ng | 83 |
| 20) Allyl Chloride | 9.53 | 41 | 81 | N.D. | ✓ | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 4669 | 0.146 | ng | 90 |
| 22) Carbon Disulfide | 9.76 | 76 | 38417 | 0.299 | ng | 97 |
| 23) trans-1,2-Dichloroethene | 10.74 | 61 | 929 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 3874 | 0.066 | ng | # 46 |
| 25) Methyl tert-Butyl Ether | 11.15 | 73 | 1434 | N.D. | ✓ | |
| 26) Vinyl Acetate | 11.31 | 86 | 9927 | 1.770 | ng | # 1 |
| 27) 2-Butanone | 11.68 | 72 | 33873 | 1.529 | ng | # 42 |
| 28) cis-1,2-Dichloroethene | 12.34 | 61 | 2568 | 0.054 | ng | NR # 21 |
| 29) Diisopropyl Ether | 12.78 | 87 | 1515990 | 55.859 | ng | NR # 1 |
| 30) Ethyl Acetate | 12.71 | 61 | 200 | N.D. | | |
| 31) n-Hexane | 12.70 | 57 | 1259 | N.D. | | |

1641

WA 6/3/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:57:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-----------------------|-------------|----------|
| 32) Chloroform | 12.78 | 83 | 13576107 | 264.102 ng | <i>acid</i> | 98 |
| 34) Tetrahydrofuran | 13.39 | 72 | 2231 | 0.105 | ng # | 42 |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | ✓ | |
| 36) 1,2-Dichloroethane | 13.73 | 62 | 428 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 601 | N.D. | ✓ | |
| 39) Isopropyl Acetate | 14.93 | 61 | 62 | N.D. | | |
| 40) 1-Butanol | 14.85 | 56 | 142307 | 4.423 | ng | 89 |
| 41) Benzene | 14.99 | 78 | 81697 | 0.667 | ng | 98 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 136344 | 2.889 | ng | 99 |
| 43) Cyclohexane | 15.35 | 84 | 13458 | 0.282 | ng # | 1 |
| 44) tert-Amyl Methyl Ether | 15.84 | 73 | 3158 | N.D. | ✓ | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 1923 | 0.059 | ng | 96 |
| 46) Bromodichloromethane | 16.46 | 83 | 8199 | 0.198 | ng | 97 |
| 47) Trichloroethene | 16.53 | 130 | 8870 | 0.236 | ng | 95 |
| 48) 1,4-Dioxane | 16.50 | 88 | 54 | N.D. | ✓ | |
| 49) Isooctane | 16.60 | 57 | 4106 | N.D. | | |
| 50) Methyl Methacrylate | 16.81 | 100 | 57 | N.D. | ✓ | |
| 51) n-Heptane | 16.99 | 71 | 540 | N.D. | ✓ | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 2869 | 0.088 | ng | 70 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 56 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.68 | 97 | 888 | N.D. | ✓ | |
| 58) Toluene | 19.06 | 91 | 109977 | 0.829 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 13842 | 0.151 | ng | 80 |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | ✓ | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.19 | 43 | 593 | N.D. | | |
| 63) n-Octane | 20.34 | 57 | 972 | N.D. | ✓ | |
| 64) Tetrachloroethene | 20.54 | 166 | 77042 | 1.963 | ng | 97 |
| 65) Chlorobenzene | 21.40 | 112 | 557 | N.D. | ✓ | |
| 66) Ethylbenzene | 21.88 | 91 | 5604 | N.D. | ✓ | |
| 67) m- & p-Xylene | 22.10 | 91 | 14413 | 0.142 | ng | 87 |
| 68) Bromoform | 22.21 | 173 | 132 | N.D. | ✓ | |
| 69) Styrene | 22.57 | 104 | 2271 | N.D. | ✓ | |
| 70) o-Xylene | 22.71 | 91 | 6872 | 0.063 | ng | 73 |
| 71) n-Nonane | 22.99 | 43 | 2844 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 114 | N.D. | ✓ | |
| 74) Cumene | 23.45 | 105 | 1632 | N.D. | ✓ | |
| 75) alpha-Pinene | 23.95 | 93 | 2112 | N.D. | | |
| 76) n-Propylbenzene | 24.09 | 91 | 6273 | N.D. | ✓ | |
| 77) 3-Ethyltoluene | 24.22 | 105 | 9163 | 0.059 | ng | 97 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 5371 | N.D. | ✓ | |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 4994 | N.D. | ✓ | |

1642

WA 6/3/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:57:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

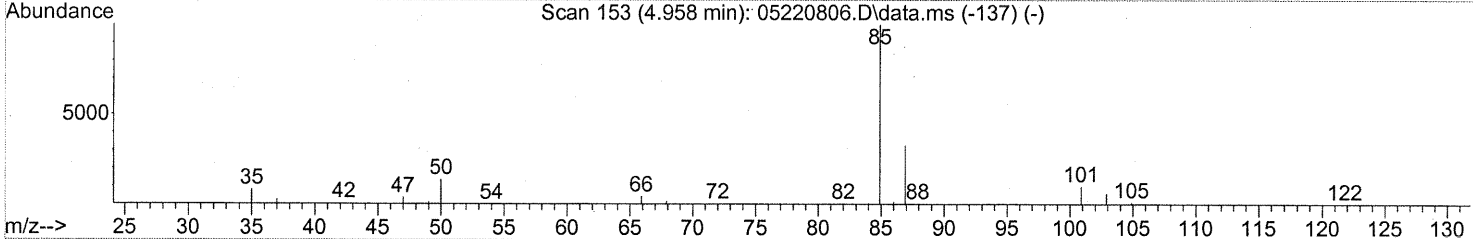
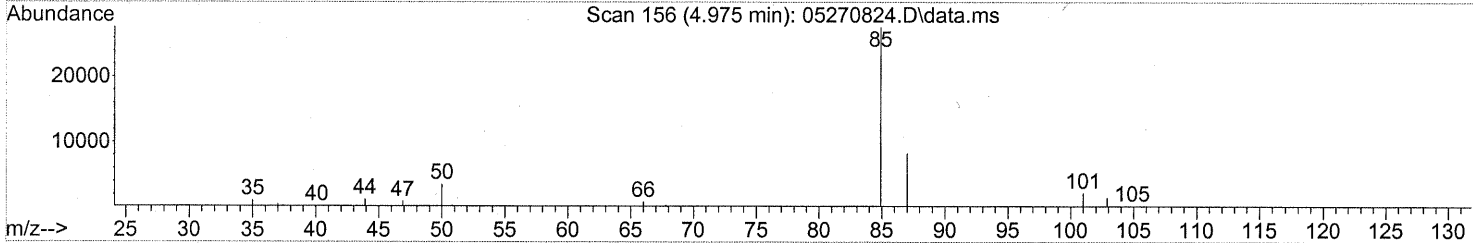
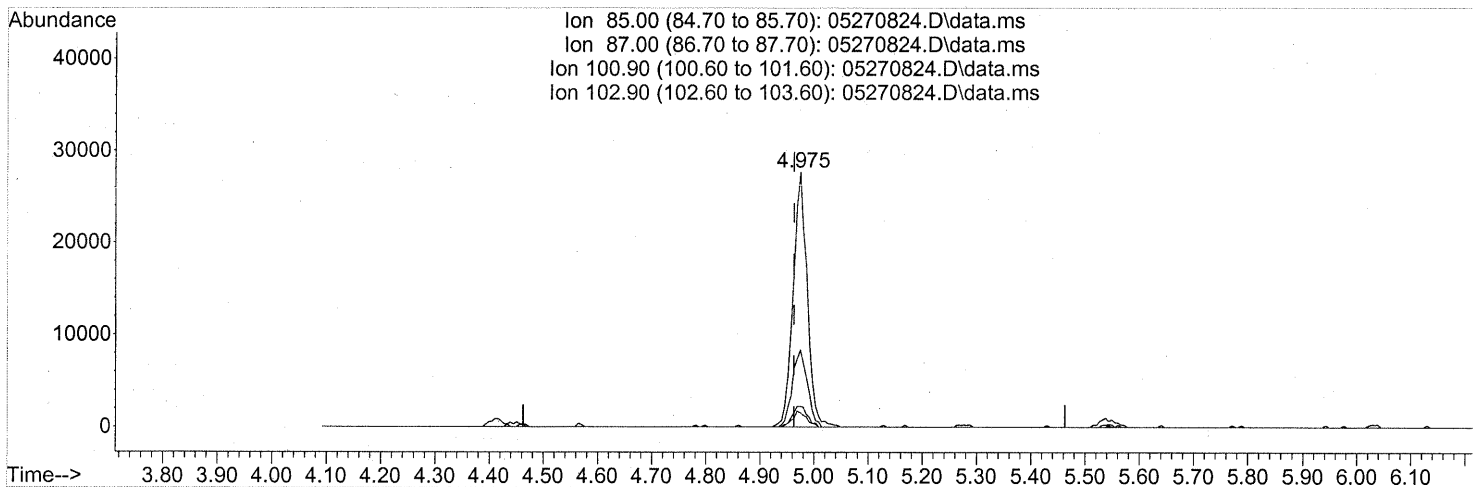
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.55 | 118 | 1552 | N.D. | ✓ | |
| 81) 2-Ethyltoluene | 24.60 | 105 | 5659 | N.D. | ✓ | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 17117 | 0.128 | ng | 87 |
| 83) n-Decane | 24.98 | 57 | 26134 | 0.356 | ng | 72 |
| 84) Benzyl Chloride | 25.05 | 91 | 1219 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 888 | N.D. | ✓ | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 301860 | 3.732 | ng | 99 |
| 87) sec-Butylbenzene | 25.20 | 105 | 1500 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | 25.39 | 119 | 3982 | N.D. | ✓ | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 7534 | 0.058 | ng | 84 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1179 | N.D. | ✓ | |
| 91) d-Limonene | 25.57 | 68 | 10199 | 0.192 | ng | 94 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.50 | 157 | 513 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 116062 | 1.510 | ng | 79 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 1498 | N.D. | ✓ | |
| 95) Naphthalene | 27.77 | 128 | 119462 | 0.679 | ng | 93 |
| 96) n-Dodecane | 27.73 | 57 | 224062 | 2.932 | ng | 84 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 31483 | 0.816 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 0.61ng

response 49890

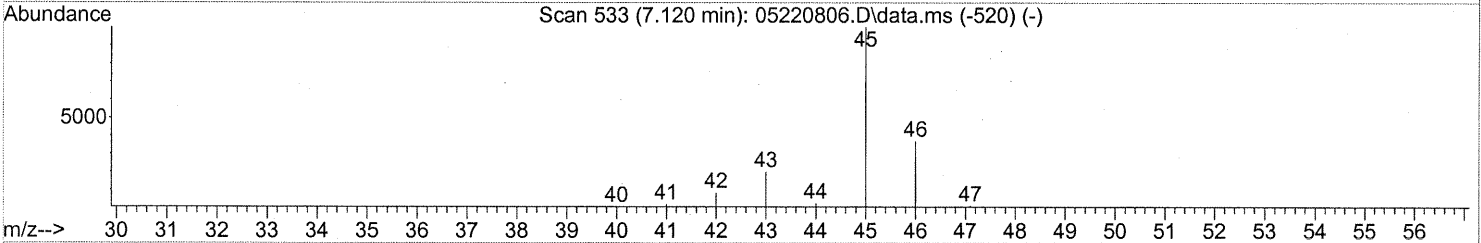
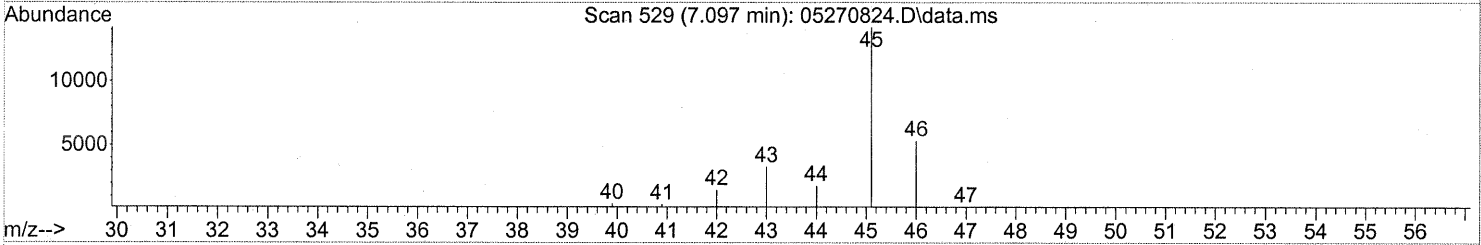
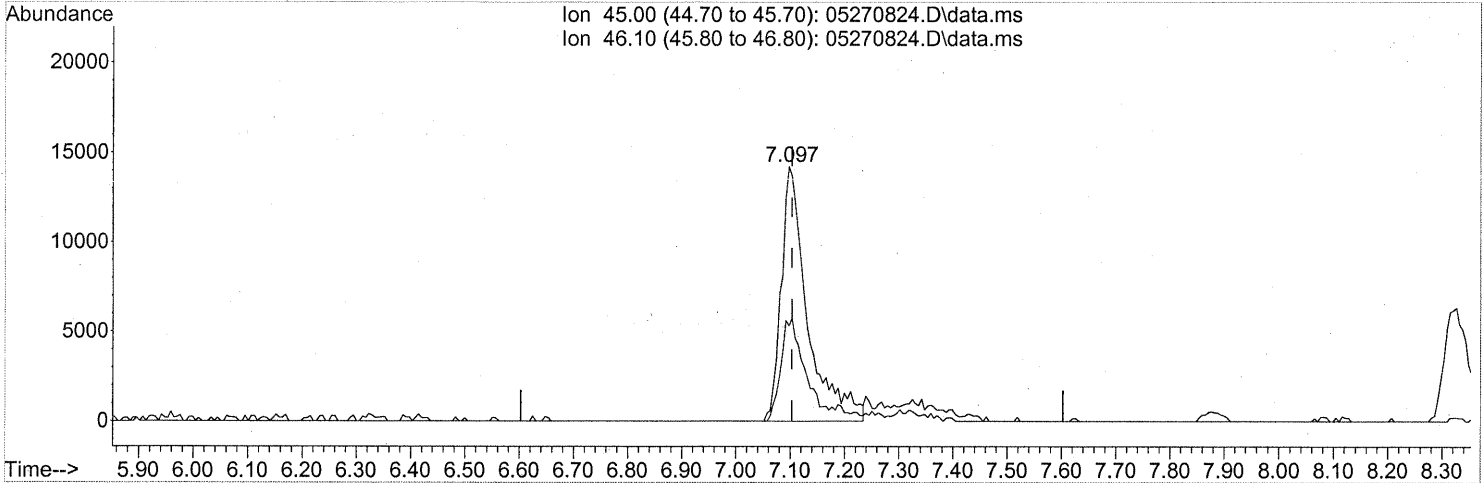
| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 32.16 |
| 100.90 | 9.30 | 8.58 |
| 102.90 | 6.00 | 6.00 |

1644

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 1.60ng
 response 47506

split peaks

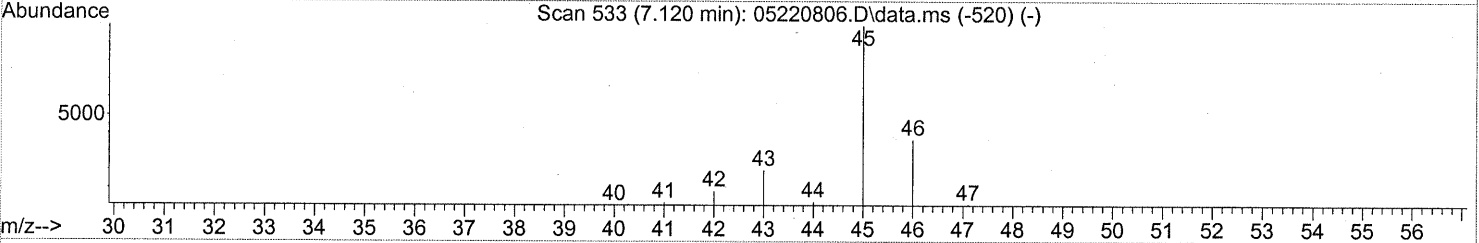
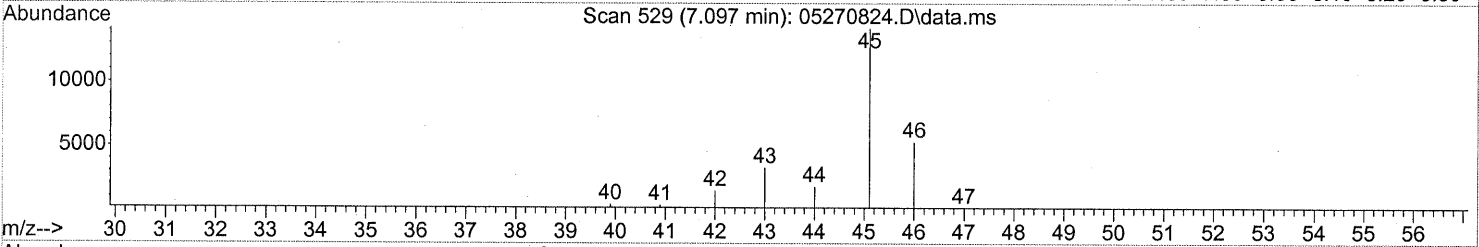
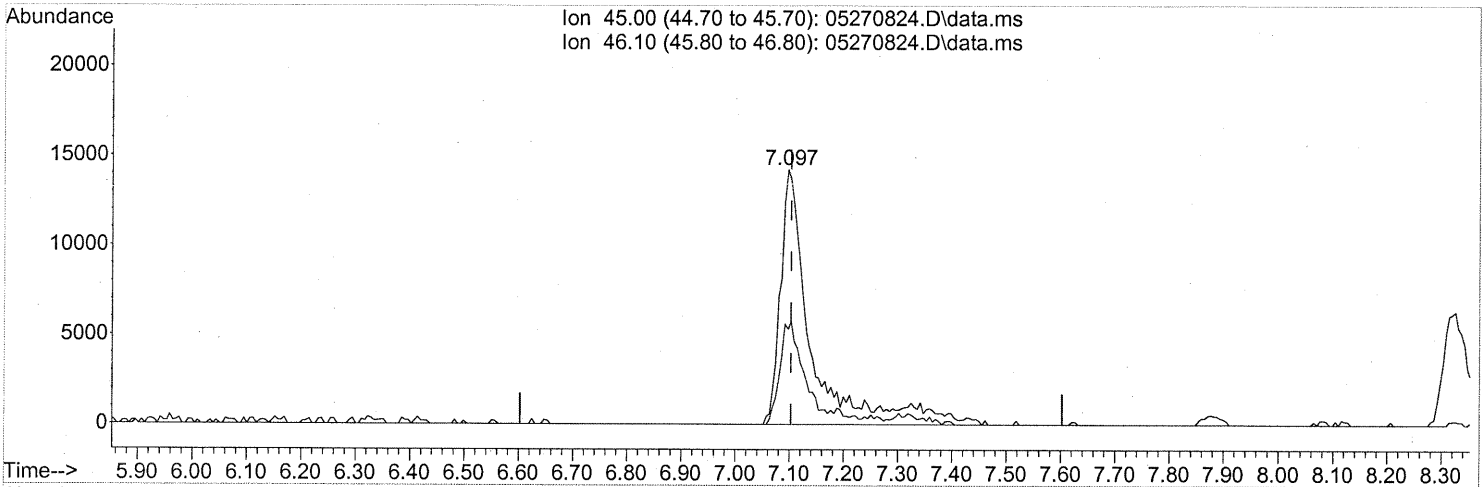
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 41.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1645

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(10) Ethanol (T)
 7.097min (-0.006) 1.91ng m
 response 56755

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 34.46 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

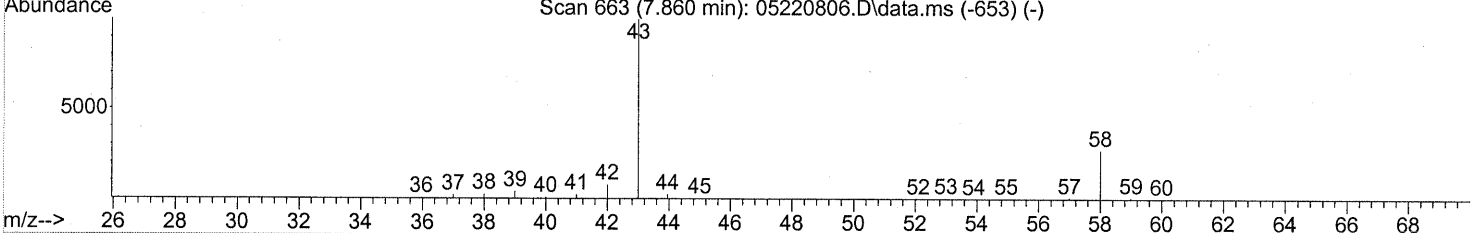
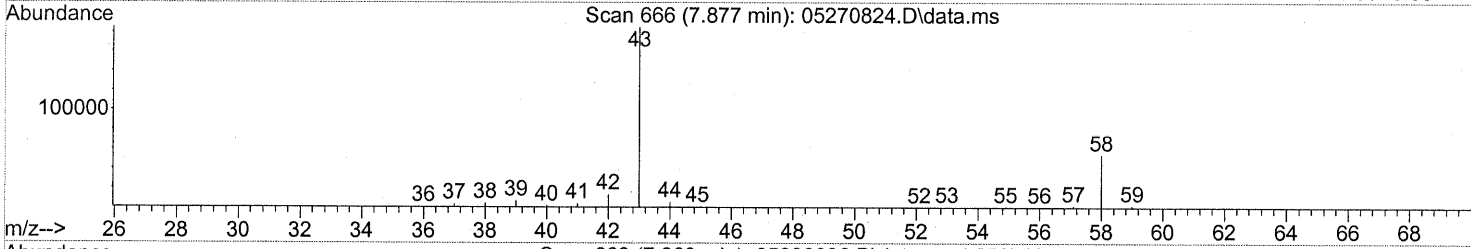
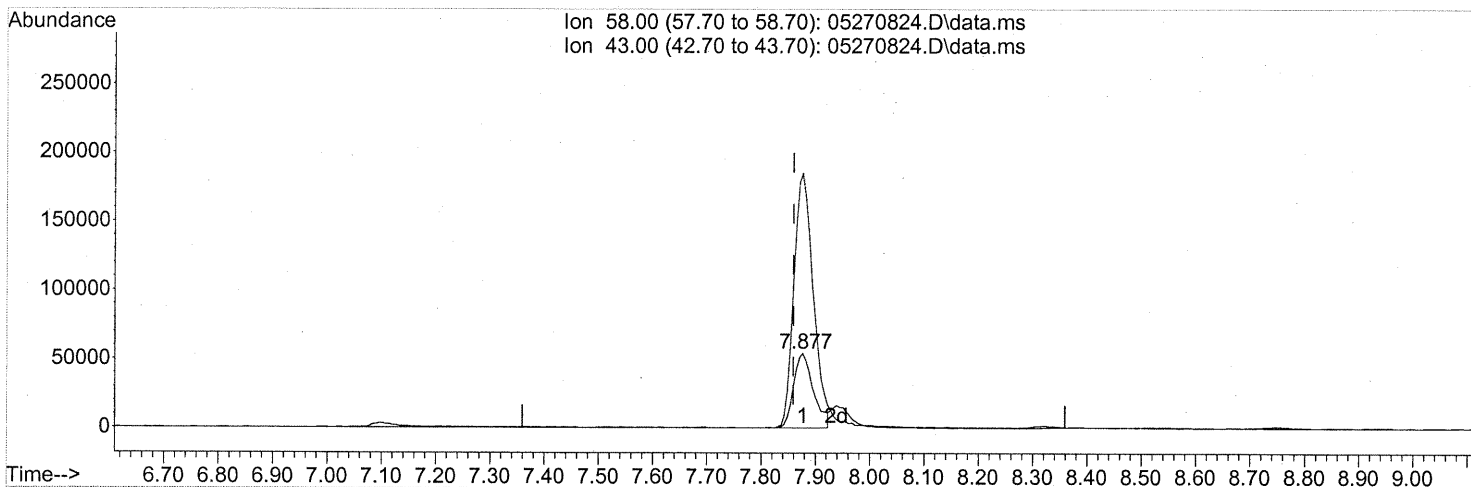
int. whole peaks
WA 6/2/08

1646

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(13) Acetone (T)
 7.877min (+0.017) 4.51ng
 response 136990

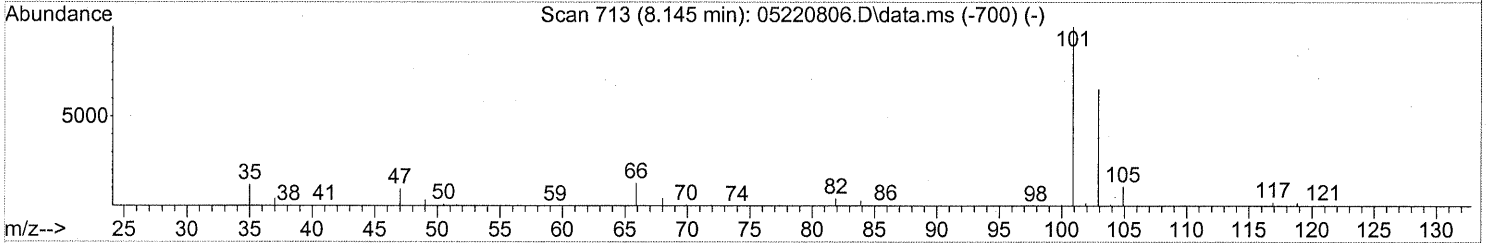
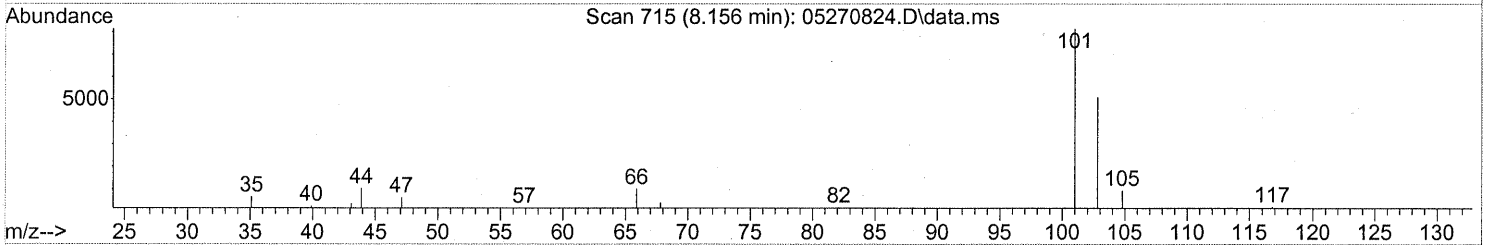
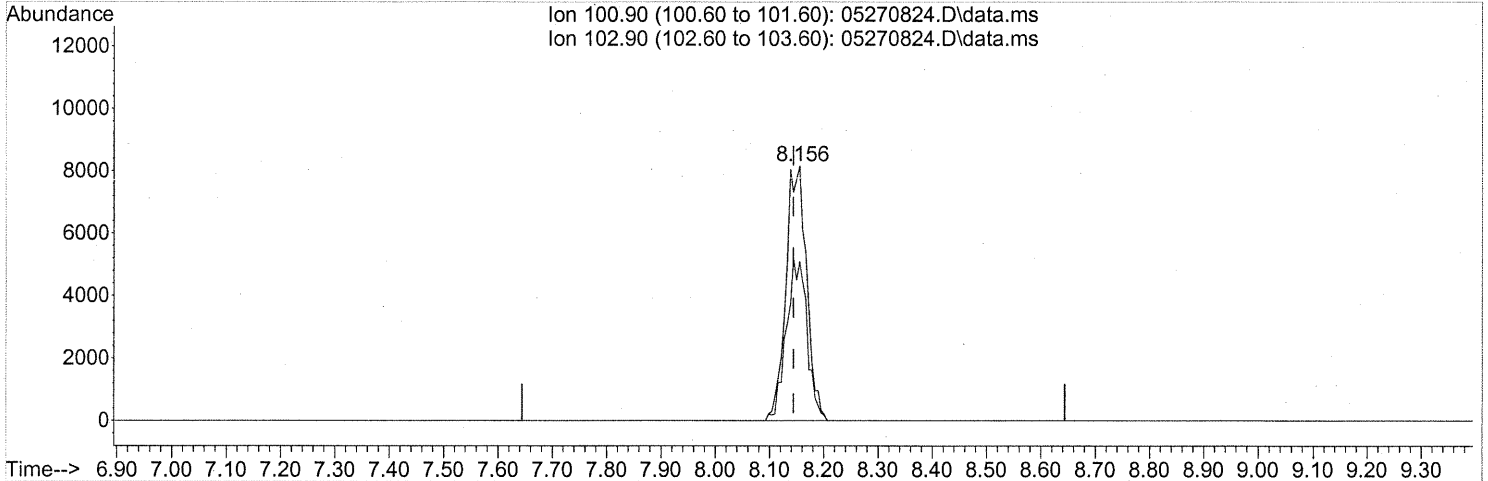
| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 348.19# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1647

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(14) Trichlorofluoromethane (T)

8.156min (+0.011) 0.31ng

response 21671

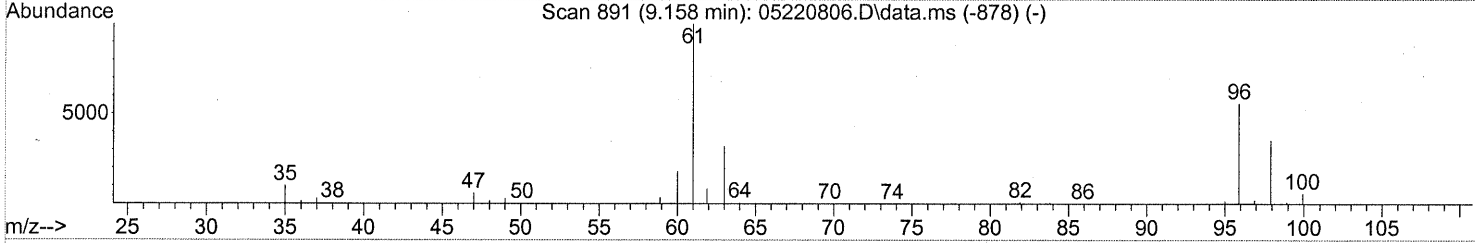
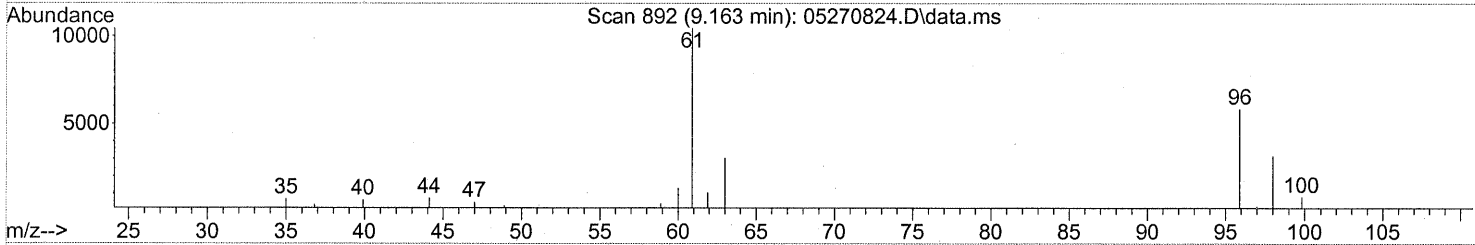
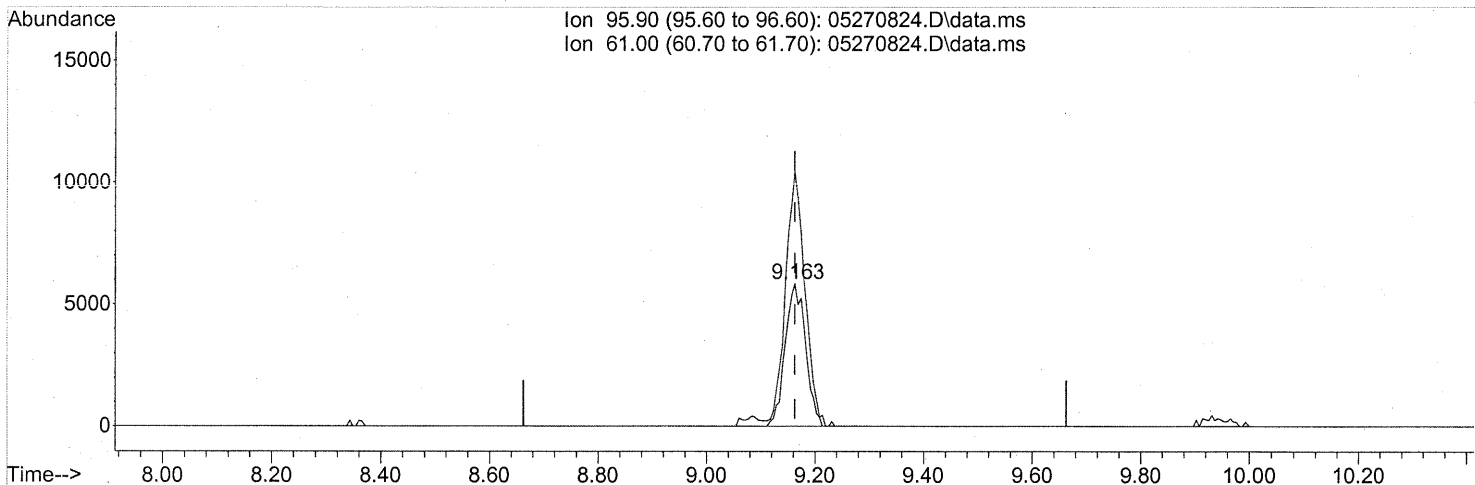
| Ion | Exp% | Act% |
|--------|-------|-------|
| 100.90 | 100 | 100 |
| 102.90 | 64.80 | 63.54 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1648

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 0.49ng

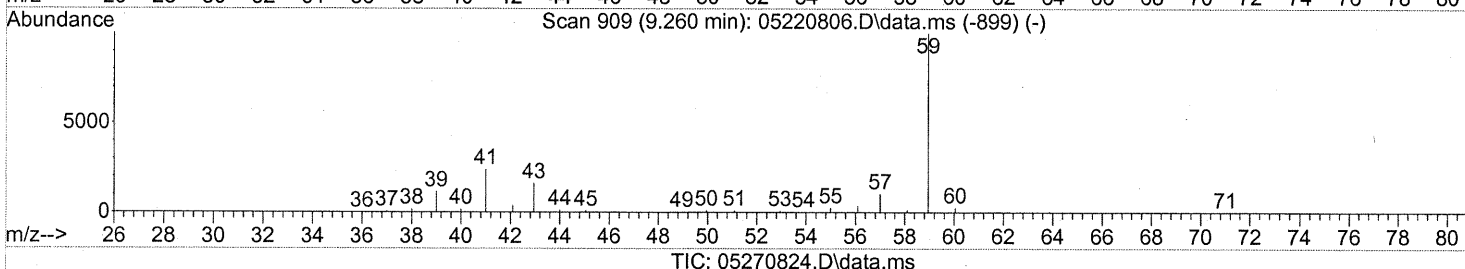
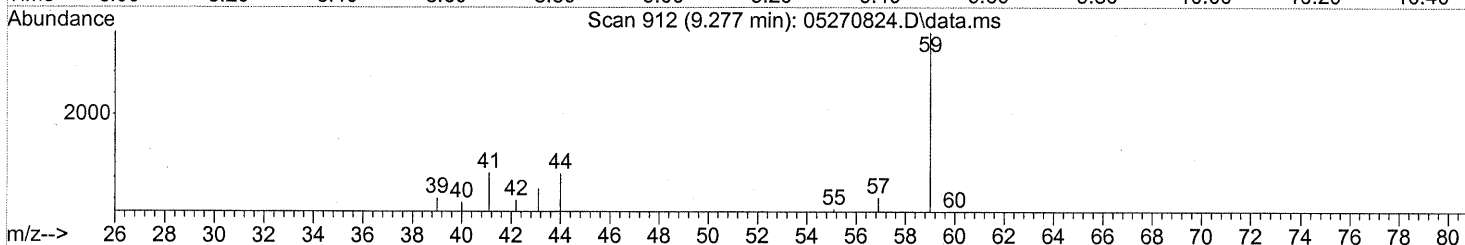
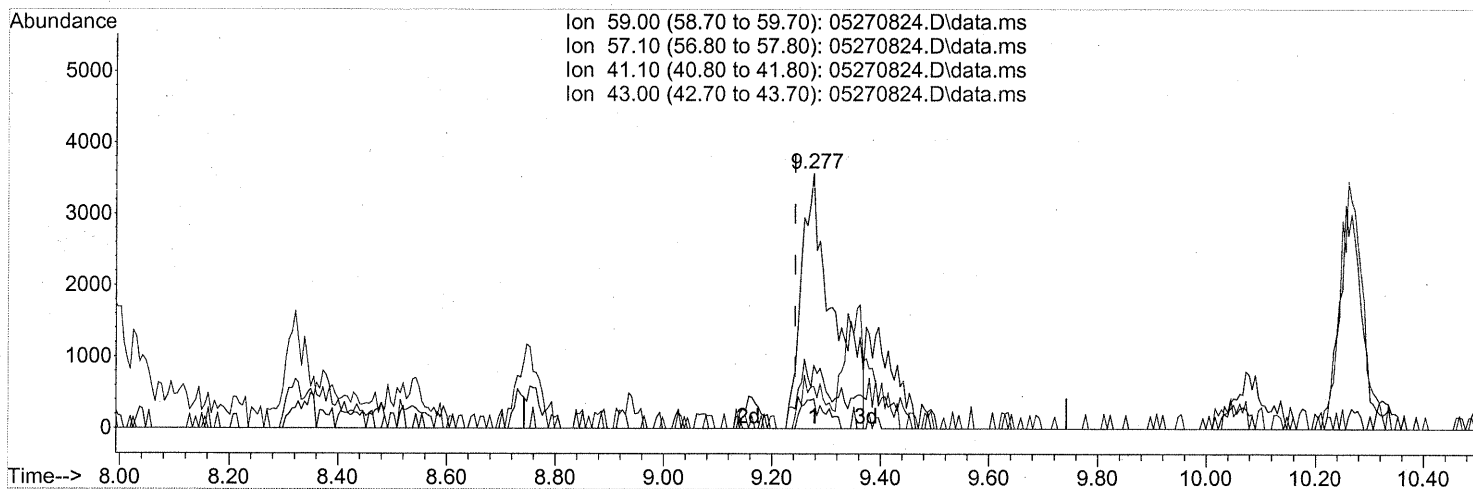
response 15230

| Ion | Exp% | Act% |
|-------|--------|---------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 170.49# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.277min (+0.034) 0.18ng

response 14597

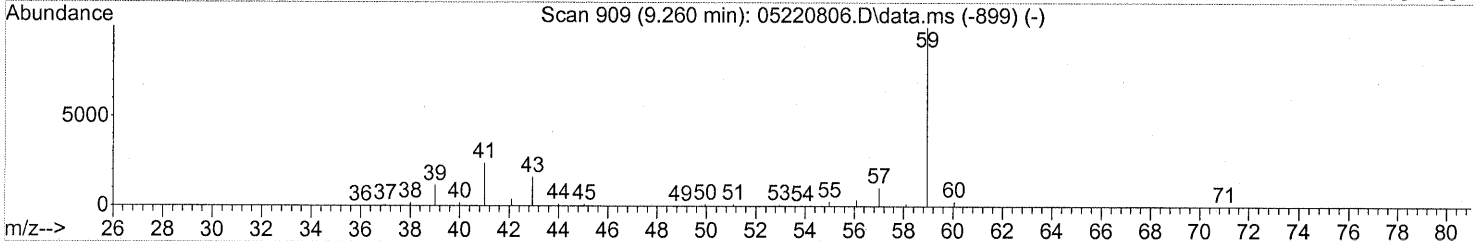
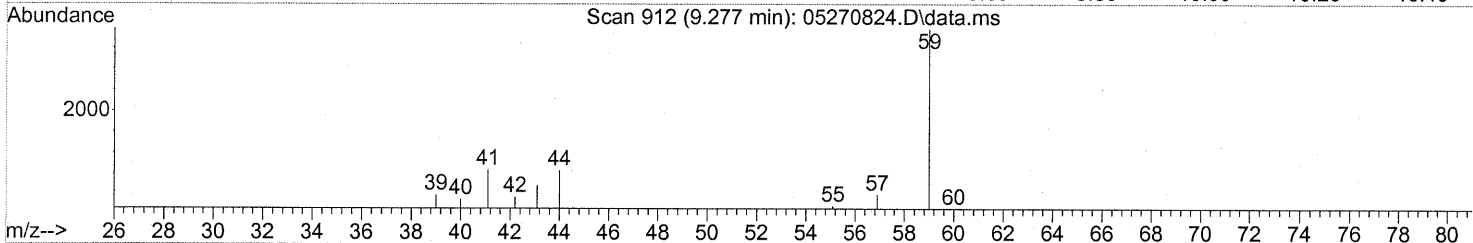
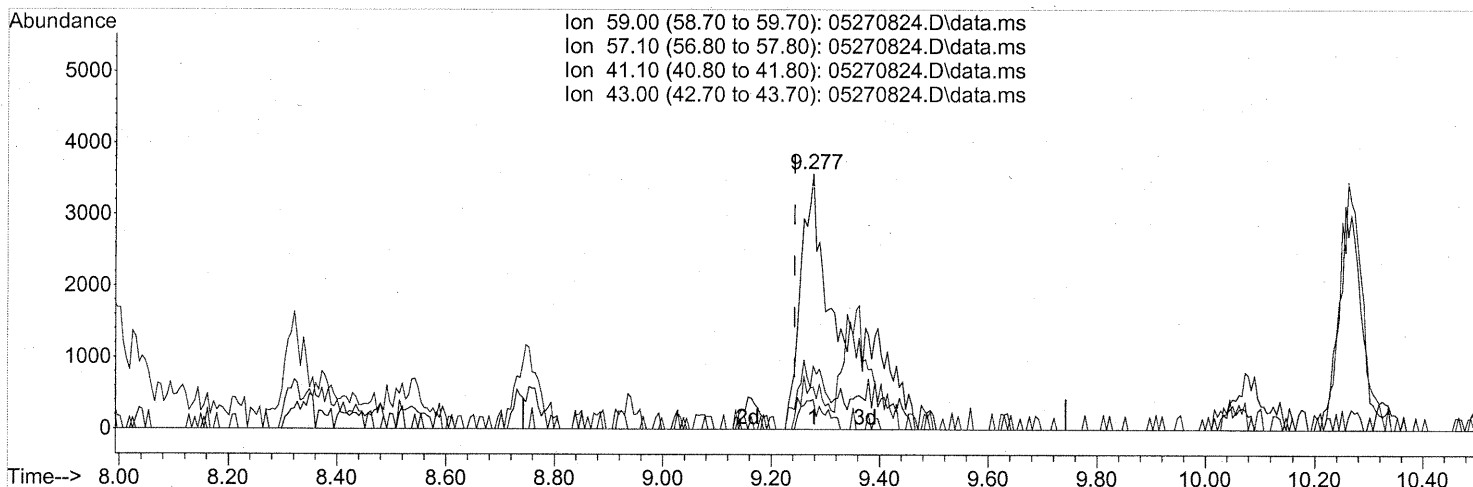
split peaks

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 8.72 |
| 41.10 | 20.10 | 15.40 |
| 43.00 | 12.30 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 1:55
Operator : WA
Sample : P0801483-018 Dup (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 12:36:27 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.277min (+0.034) 0.24ng m

response 19693

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 6.46 |
| 41.10 | 20.10 | 11.42 |
| 43.00 | 12.30 | 0.00 |

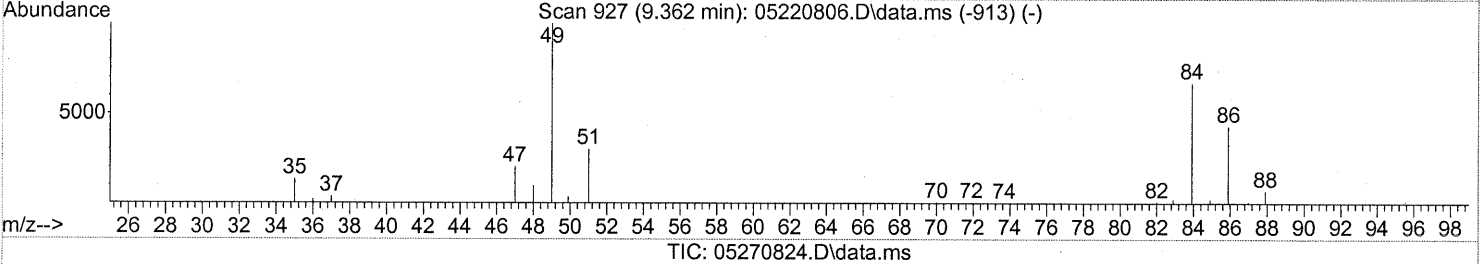
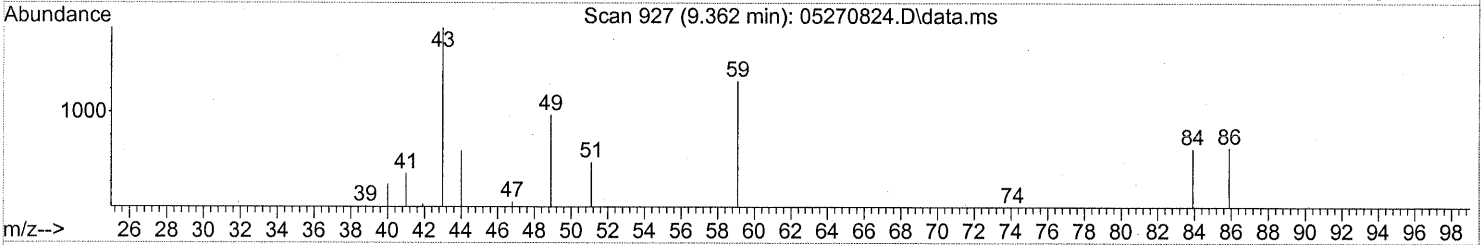
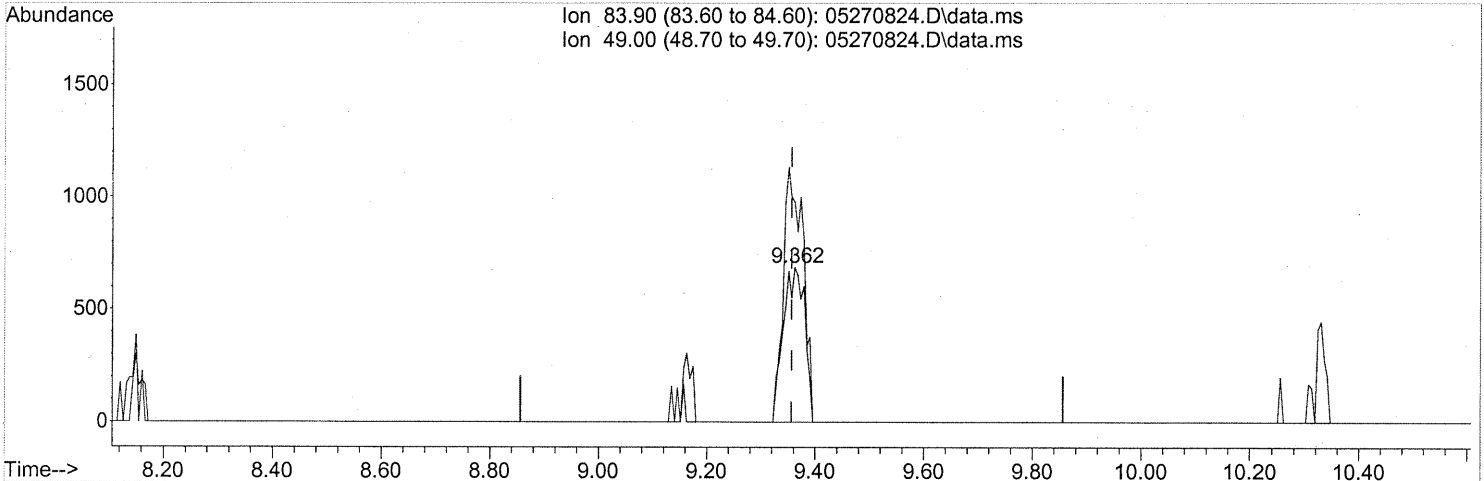
int. whole peales

pot 6/13/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.06ng

response 1902

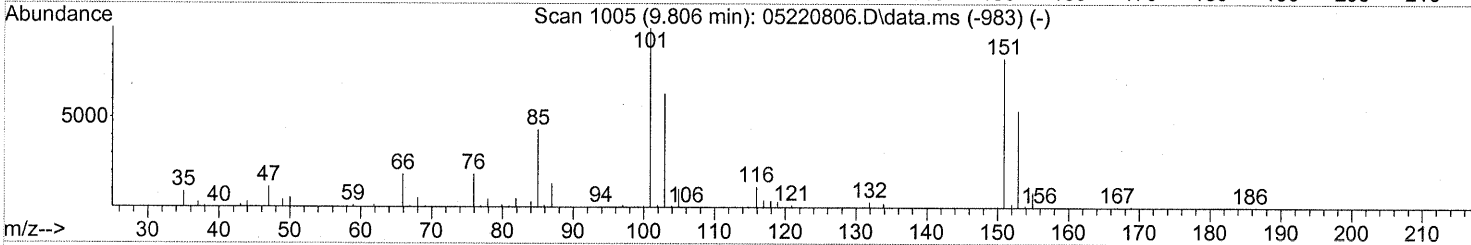
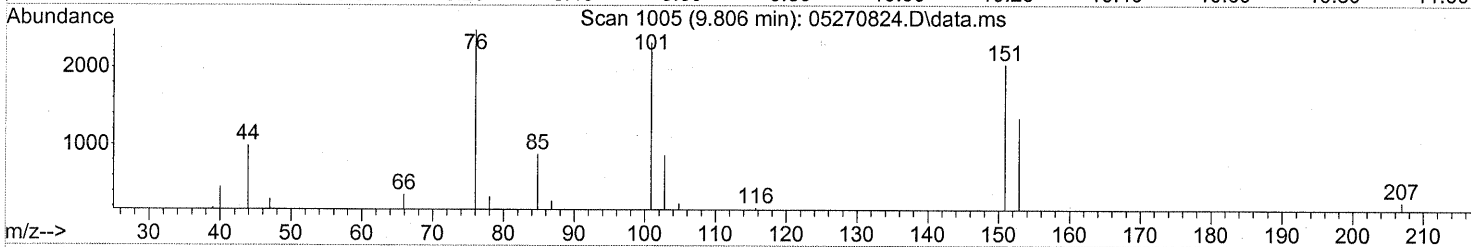
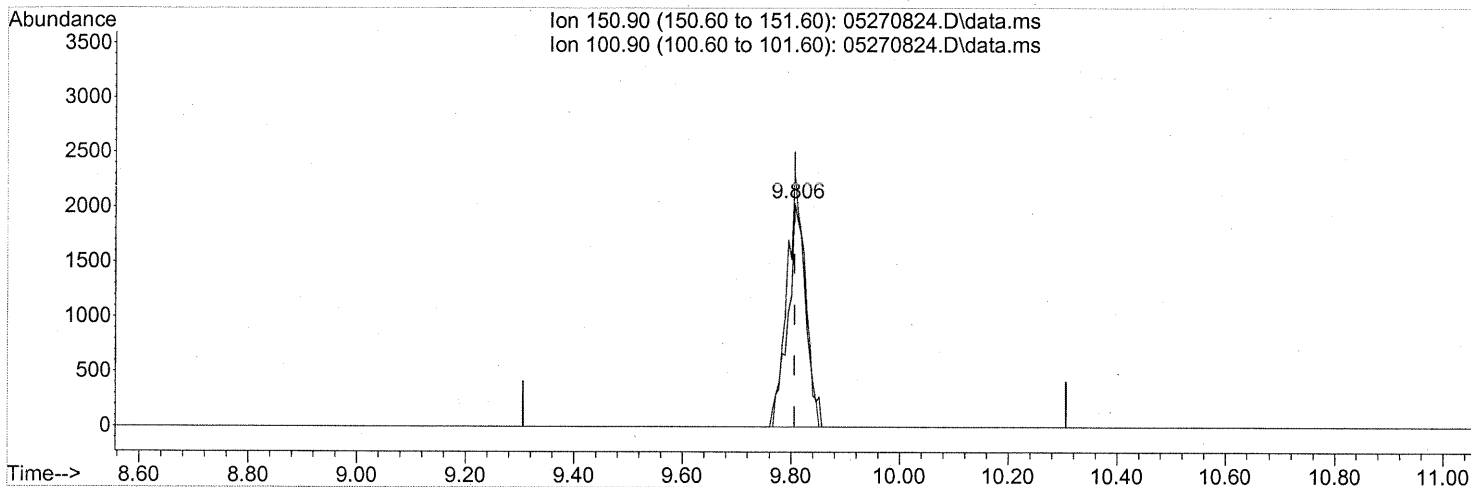
| Ion | Exp% | Act% |
|-------|--------|--------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 149.84 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1652

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.15ng

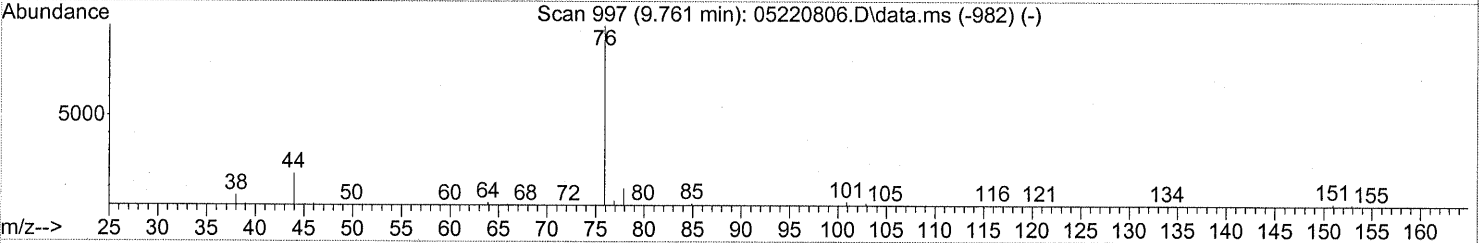
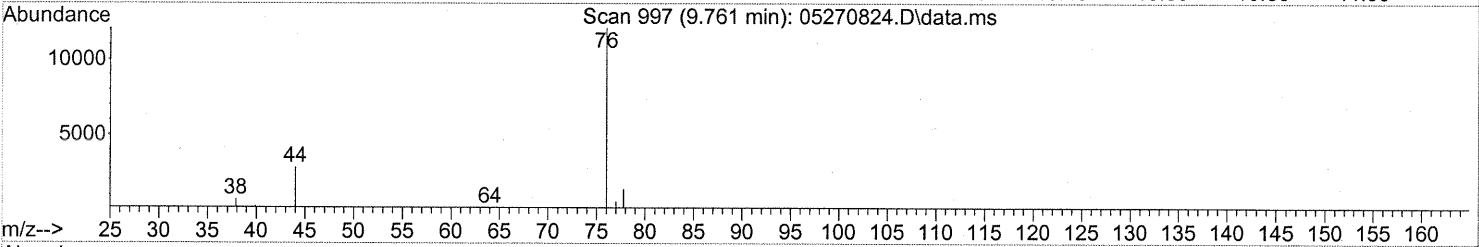
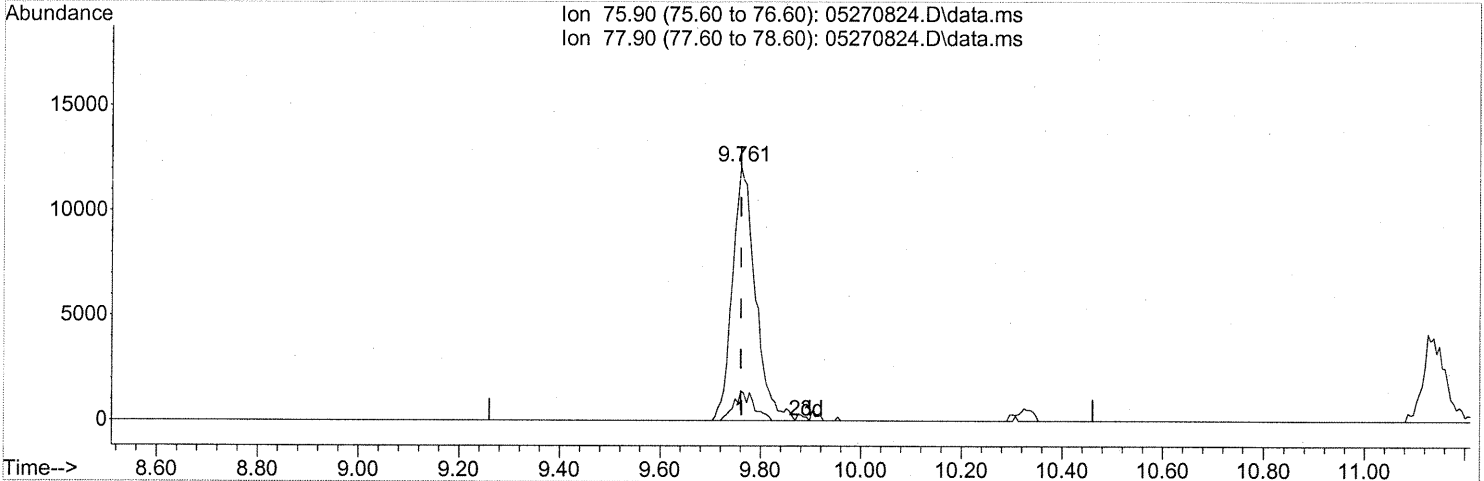
response 4669

| Ion | Exp% | Act% |
|--------|--------|--------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 115.06 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(22) Carbon Disulfide (T)

9.761min (-0.000) 0.30ng

response 38417

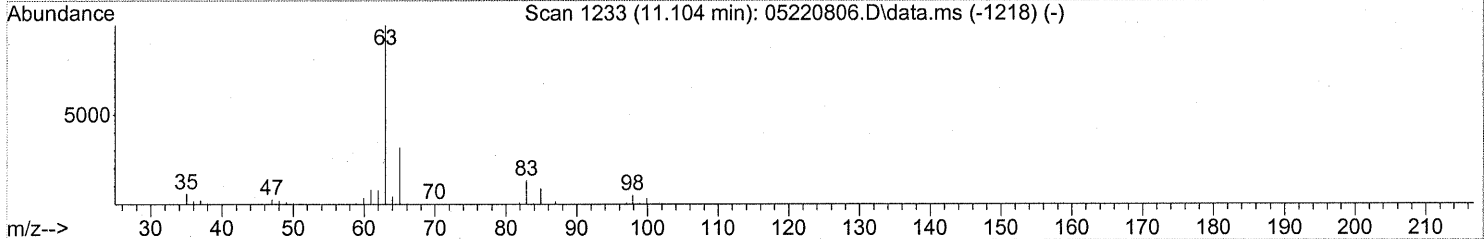
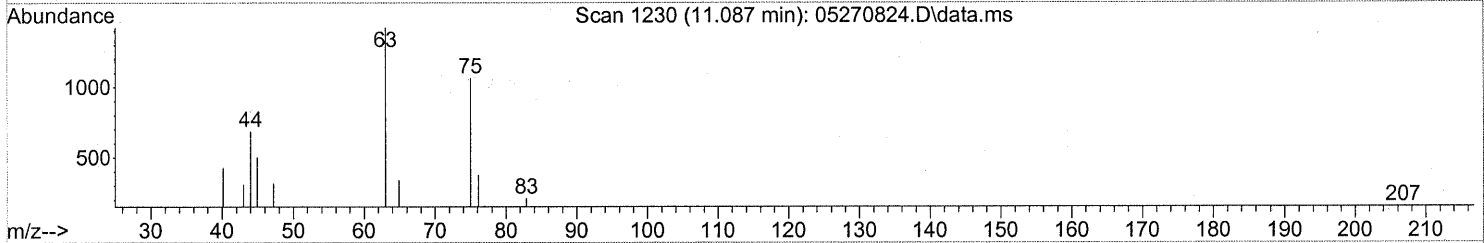
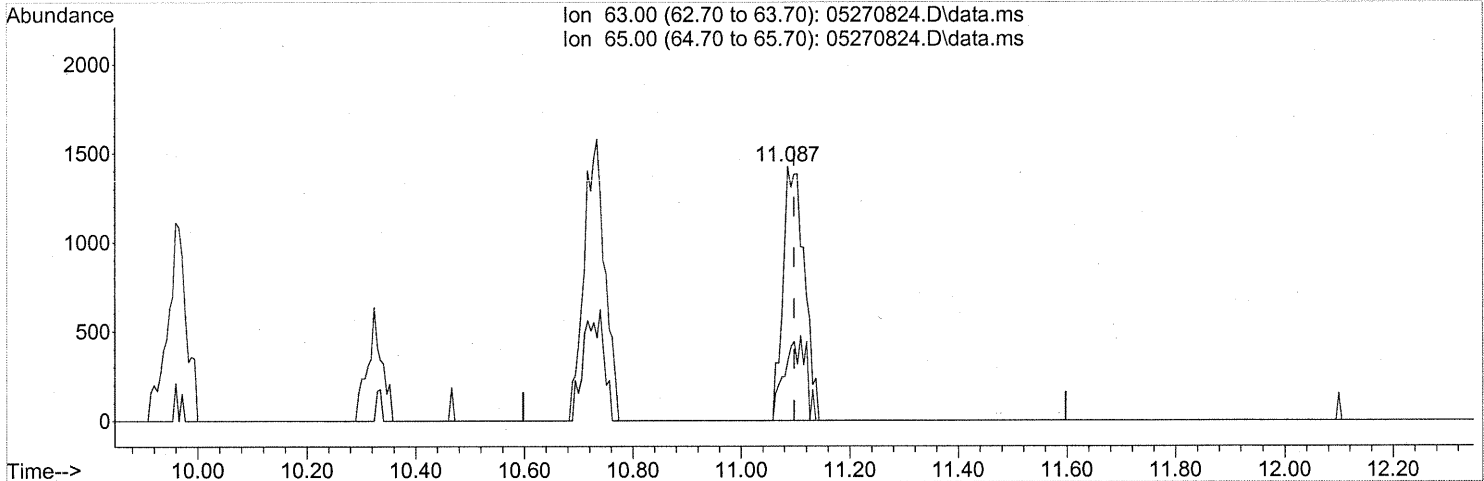
| Ion | Exp% | Act% |
|-------|------|------|
| 75.90 | 100 | 100 |
| 77.90 | 8.70 | 9.87 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1654

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(24) 1,1-Dichloroethane (T)

11.087min (-0.011) 0.07ng

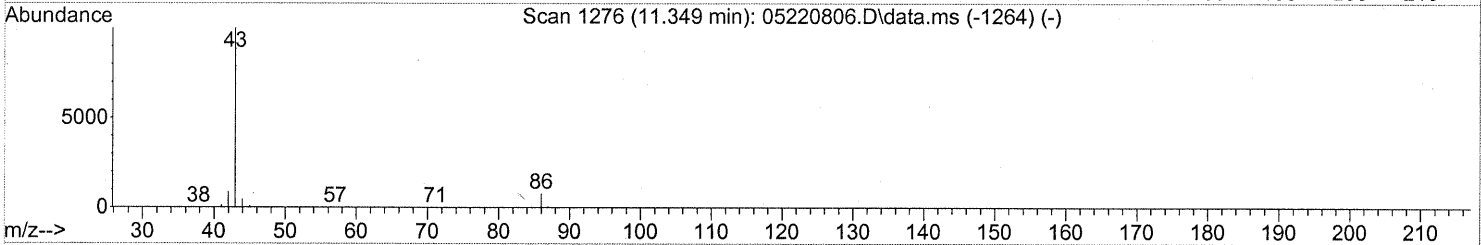
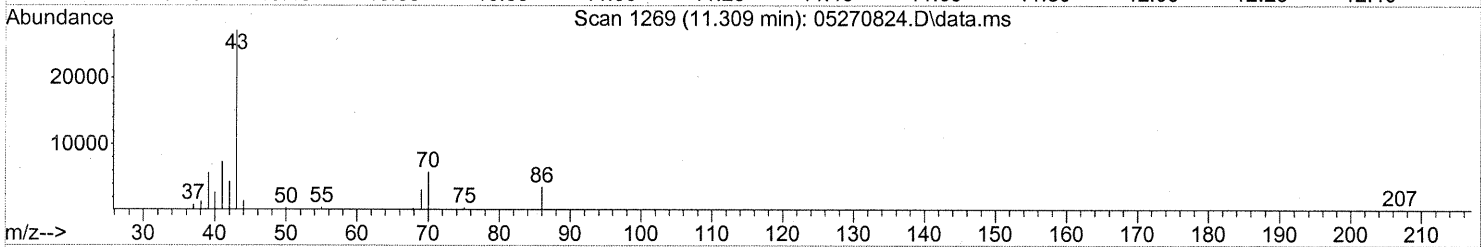
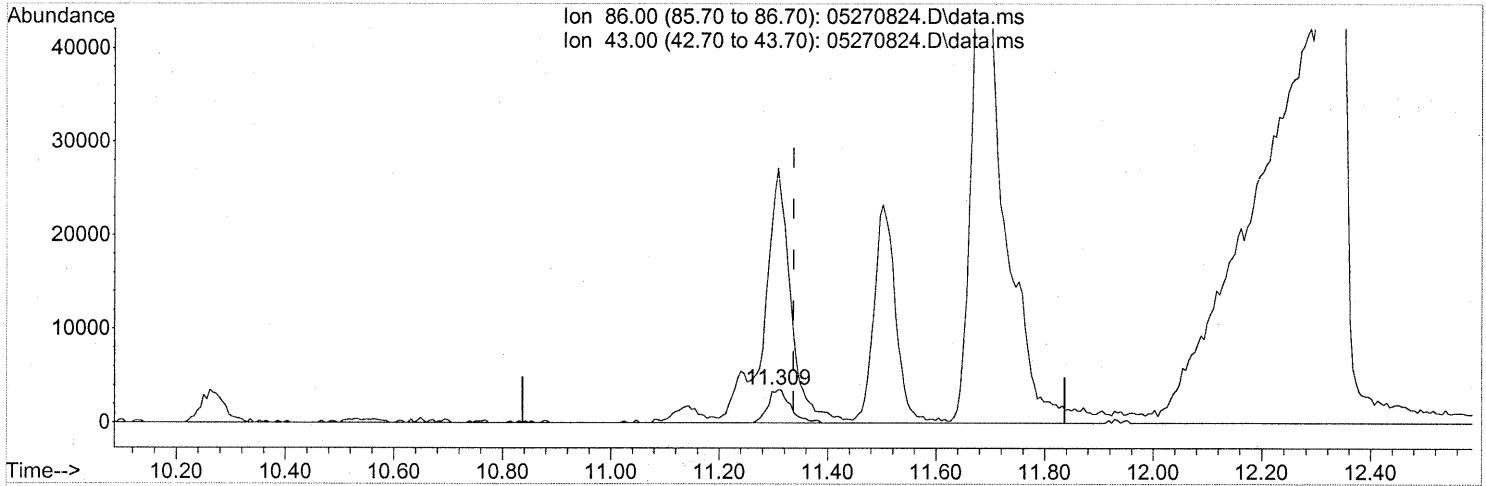
response 3874

| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 65.00 | 29.10 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 1:55
Operator : WA
Sample : P0801483-018 Dup (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



TIC: 05270824.D\data.ms

(26) Vinyl Acetate (T)

11.309min (-0.028) 1.77ng

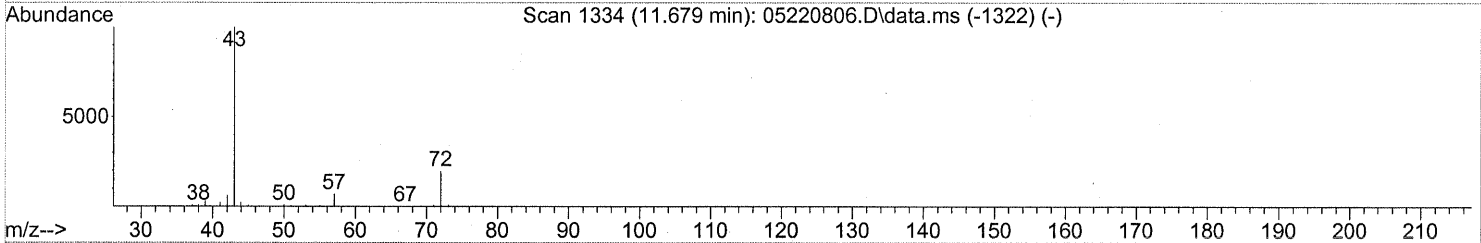
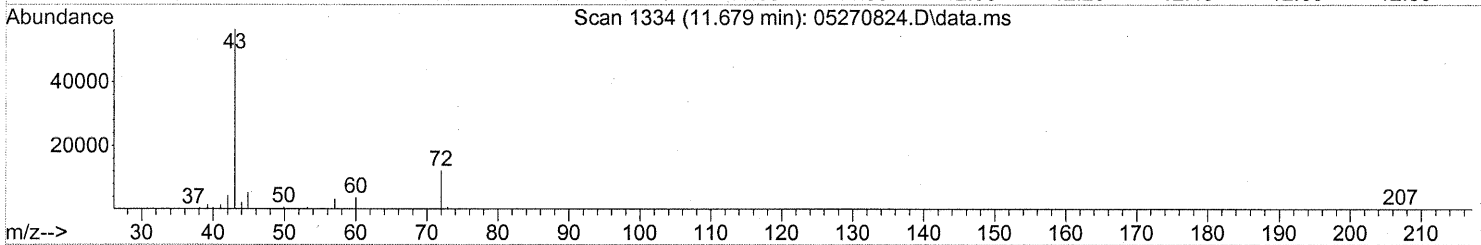
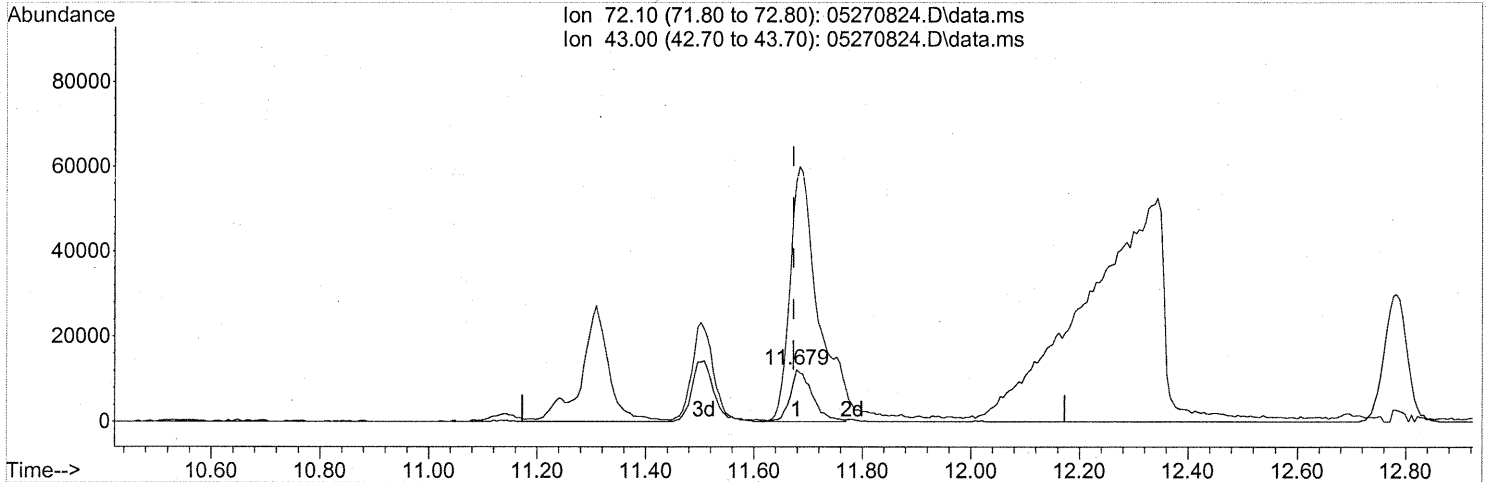
response 9927

| Ion | Exp% | Act% |
|-------|---------|---------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 786.38# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(27) 2-Butanone (T)

11.679min (+0.006) 1.53ng

response 33873

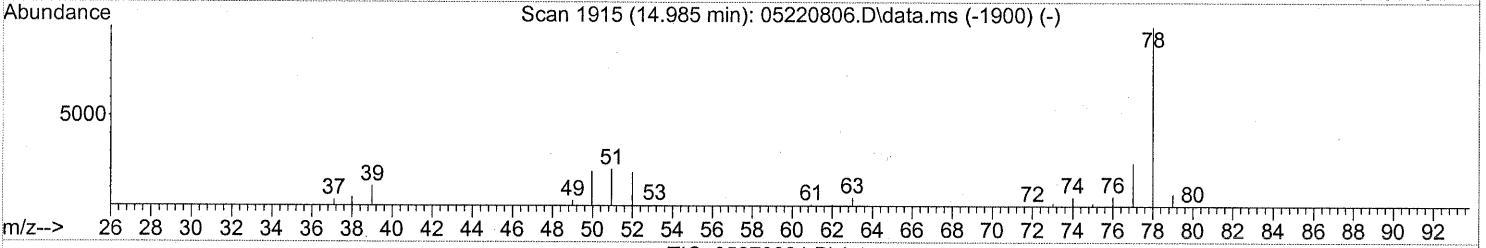
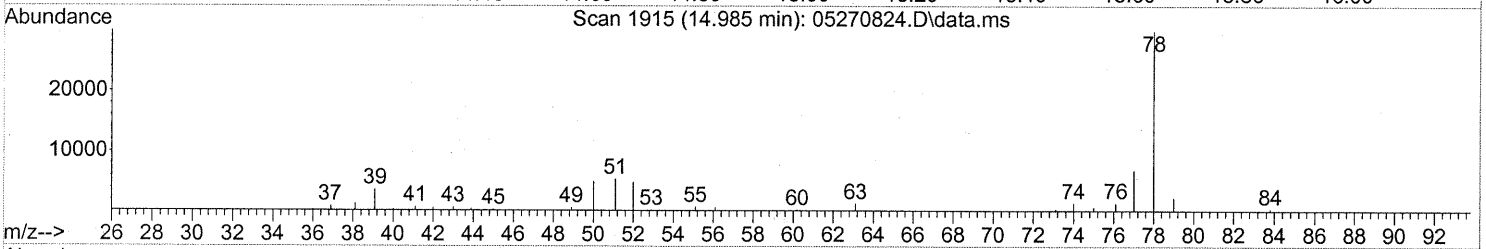
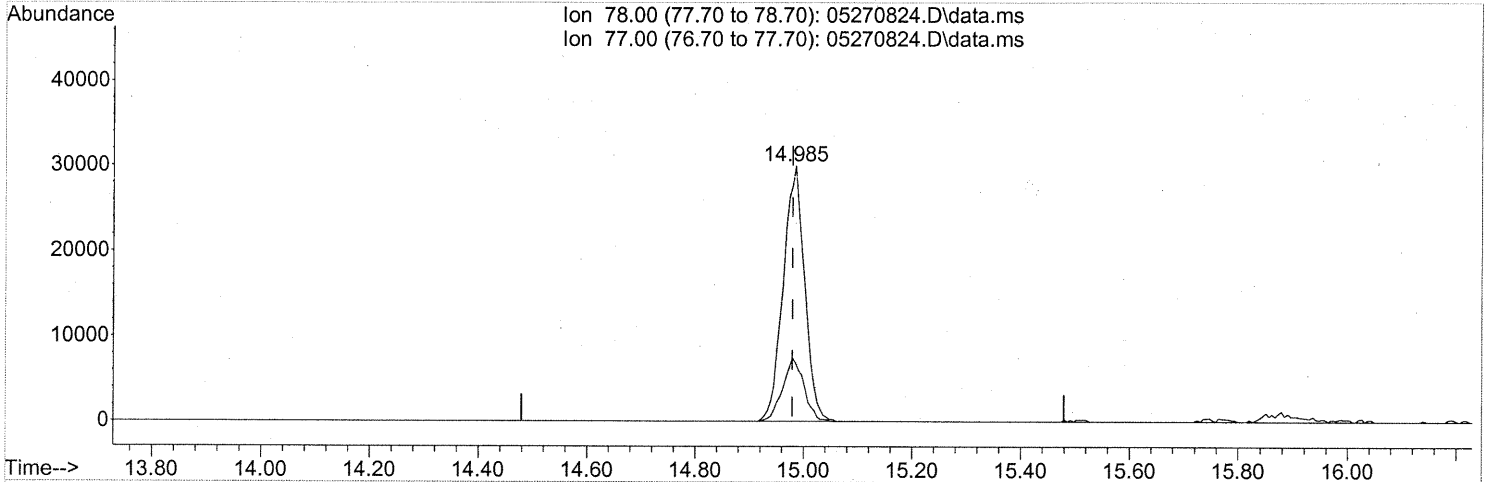
| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 667.38# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1657

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 1:55
Operator : WA
Sample : P0801483-018 Dup (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(41) Benzene (T)

14.985min (+0.006) 0.67ng

response 81697

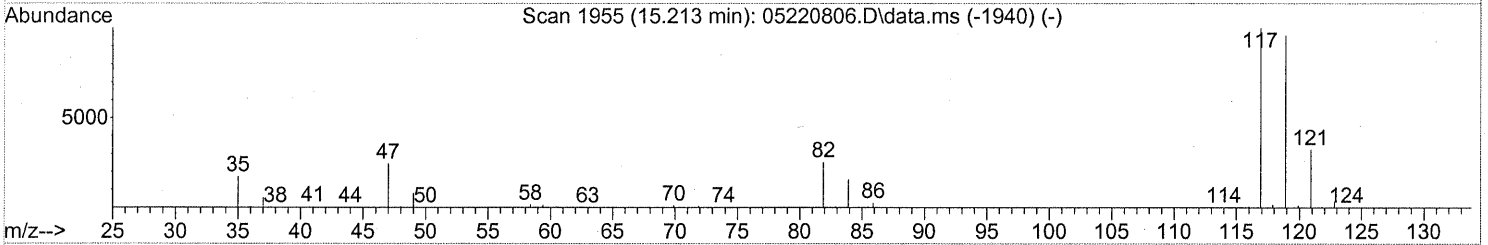
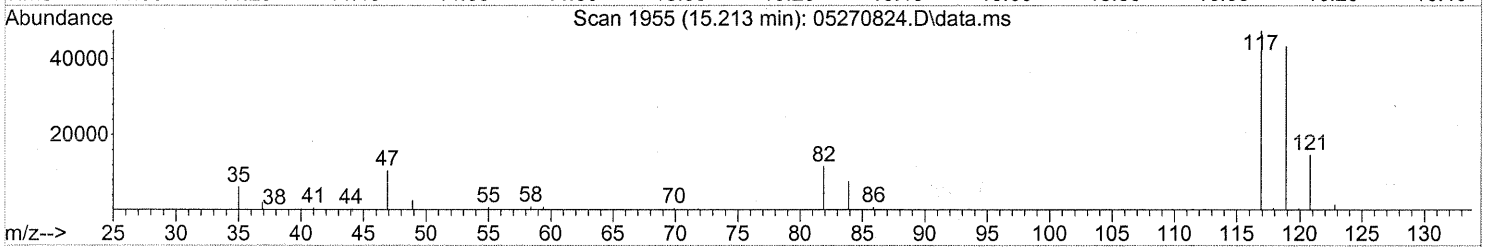
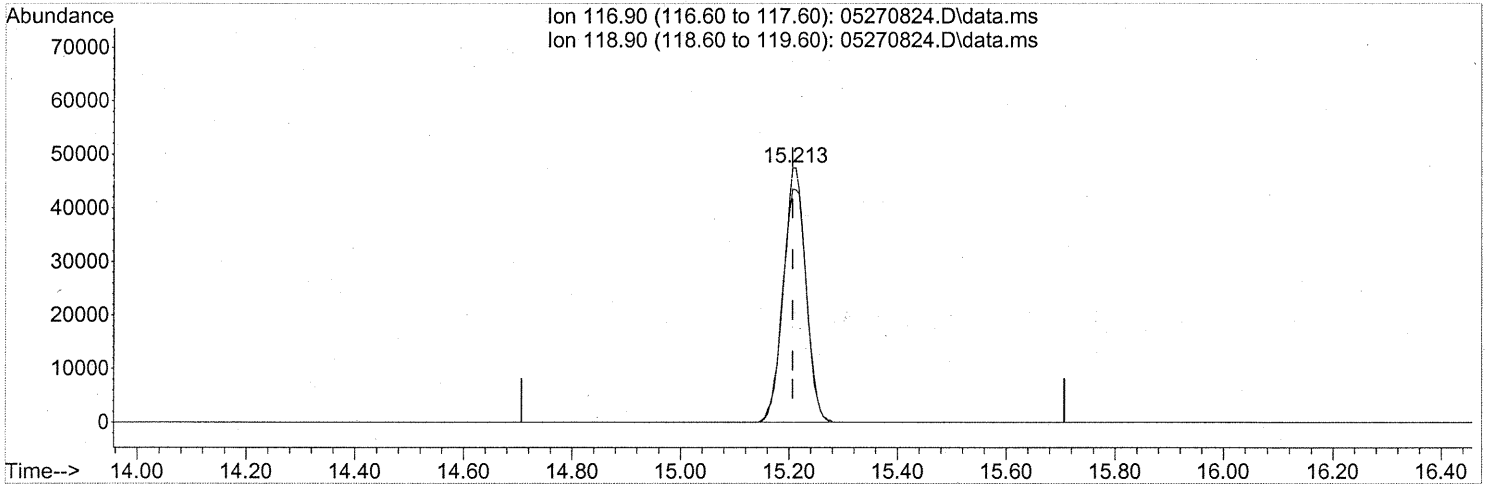
| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 24.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1658

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(42) Carbon Tetrachloride (T)

15.213min (+0.006) 2.89ng

response 136344

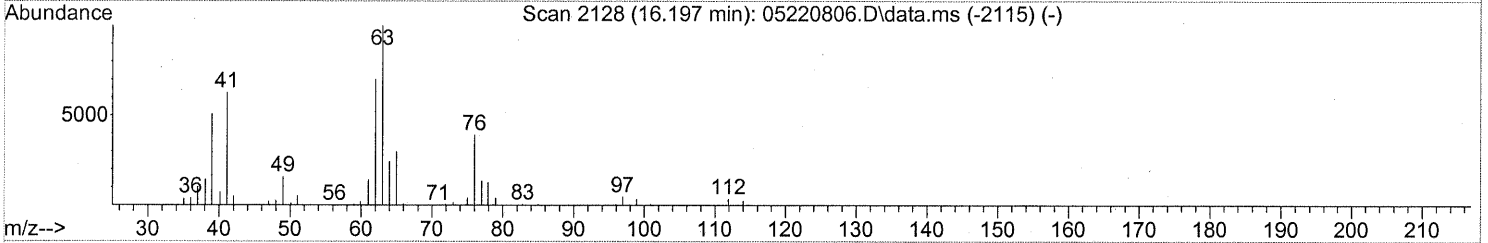
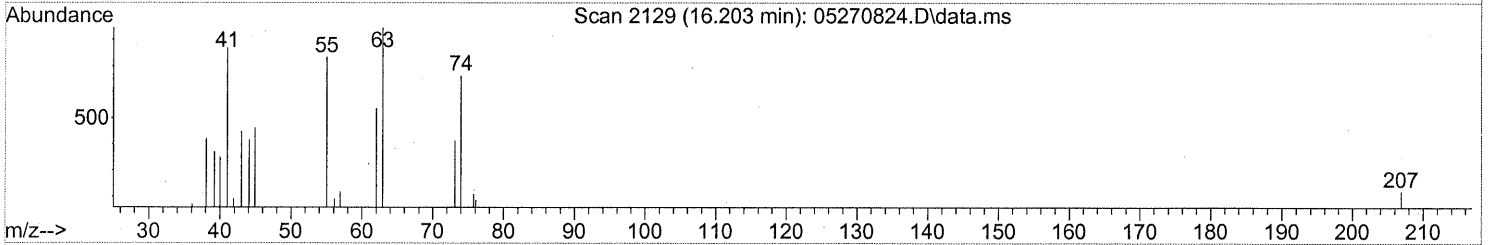
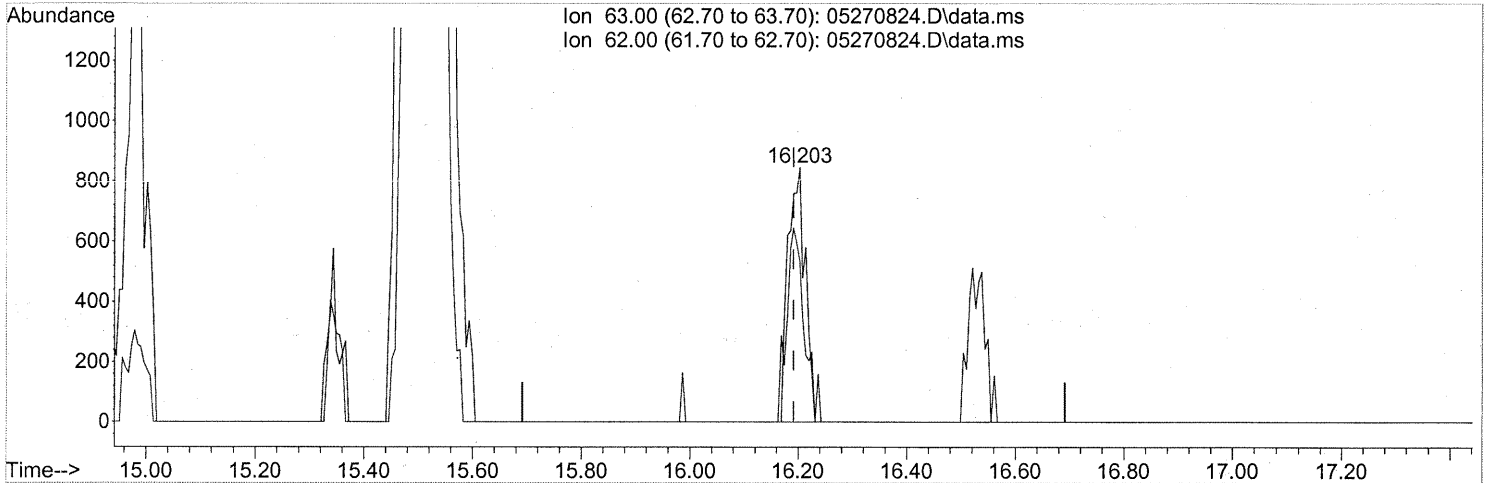
| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 96.09 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1659

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(45) 1,2-Dichloropropane (T)

16.203min (+0.011) 0.06ng

response 1923

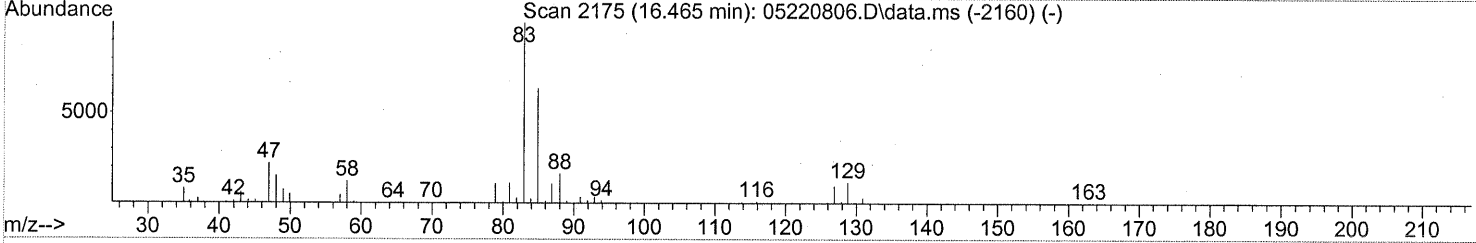
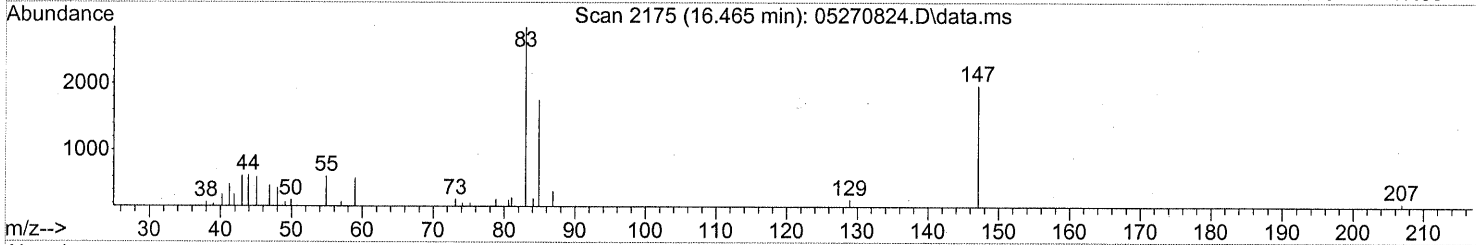
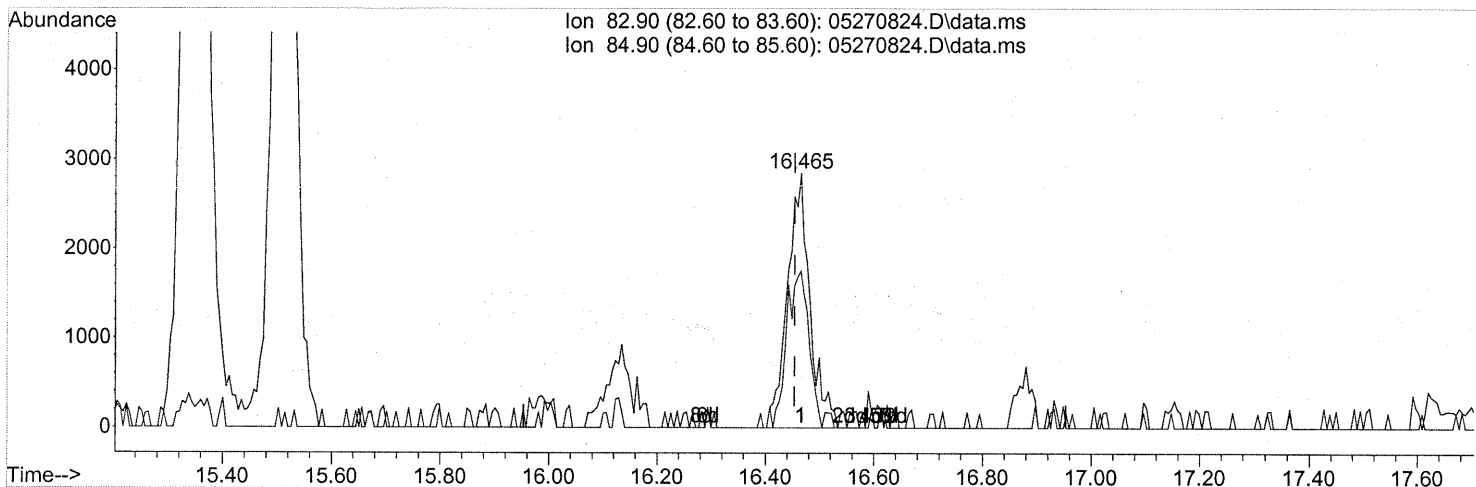
| Ion | Exp% | Act% |
|-------|-------|-------|
| 63.00 | 100 | 100 |
| 62.00 | 71.30 | 74.26 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1660

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(46) Bromodichloromethane (T)

16.465min (+0.011) 0.20ng

response 8199

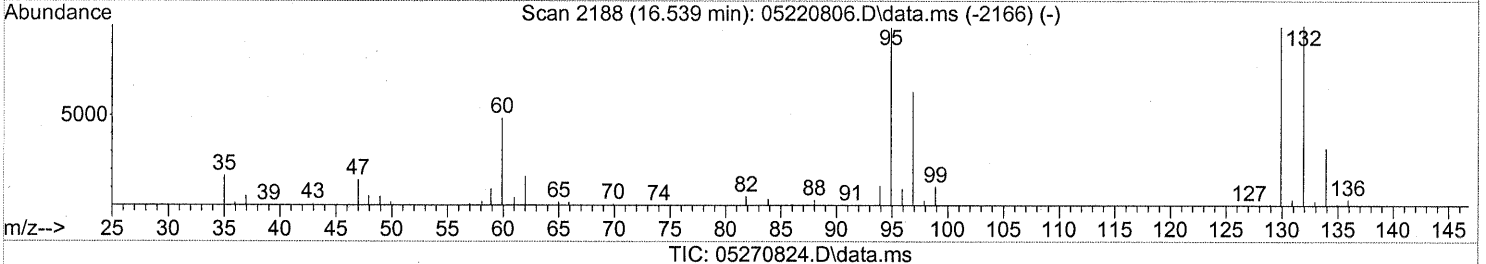
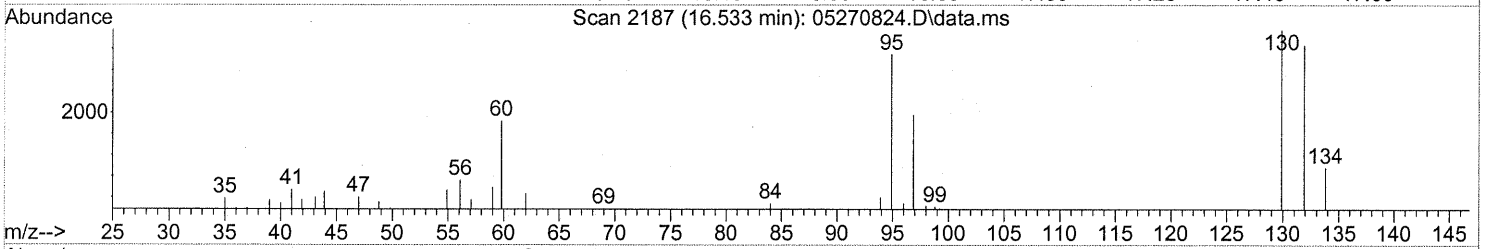
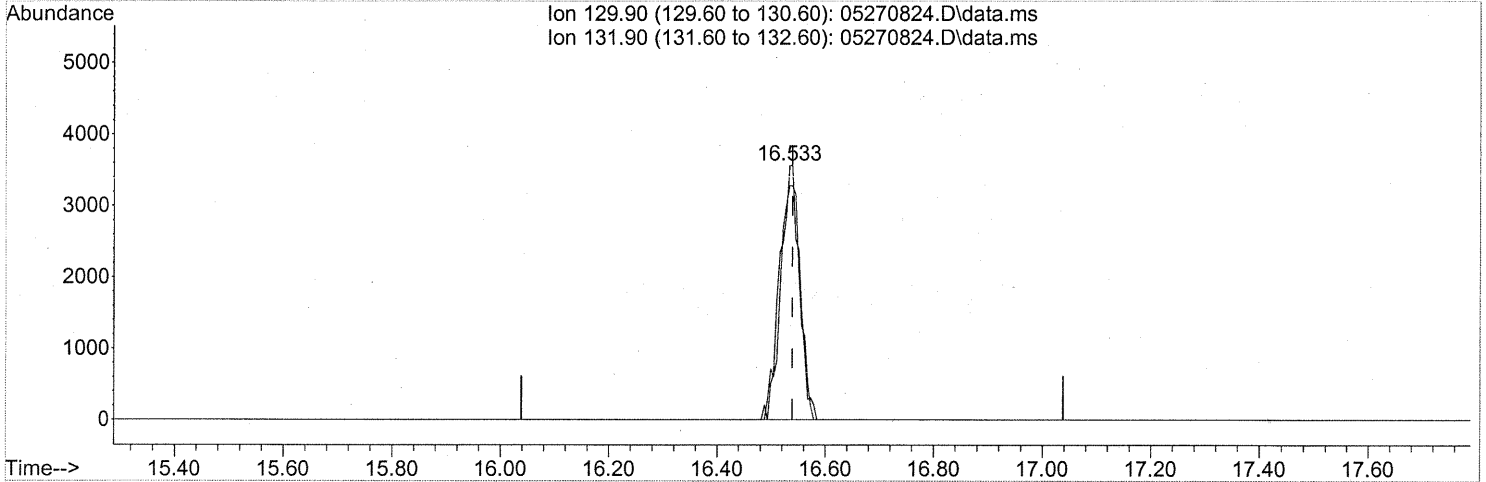
| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 61.11 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1661

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(47) Trichloroethene (T)
 16.533min (-0.006) 0.24ng
 response 8870

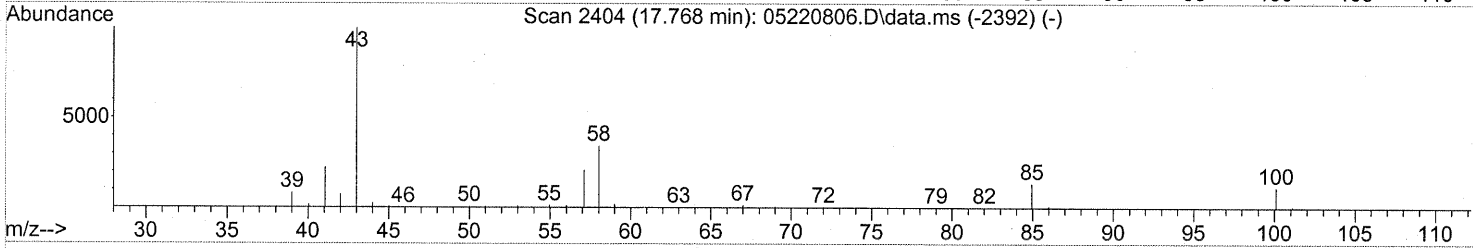
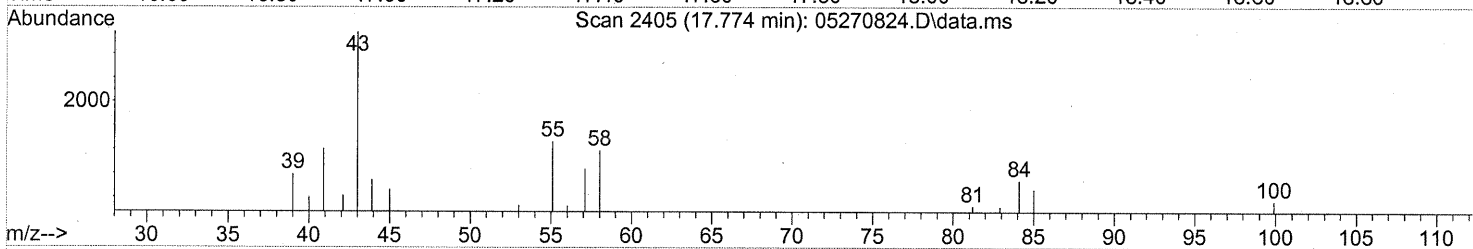
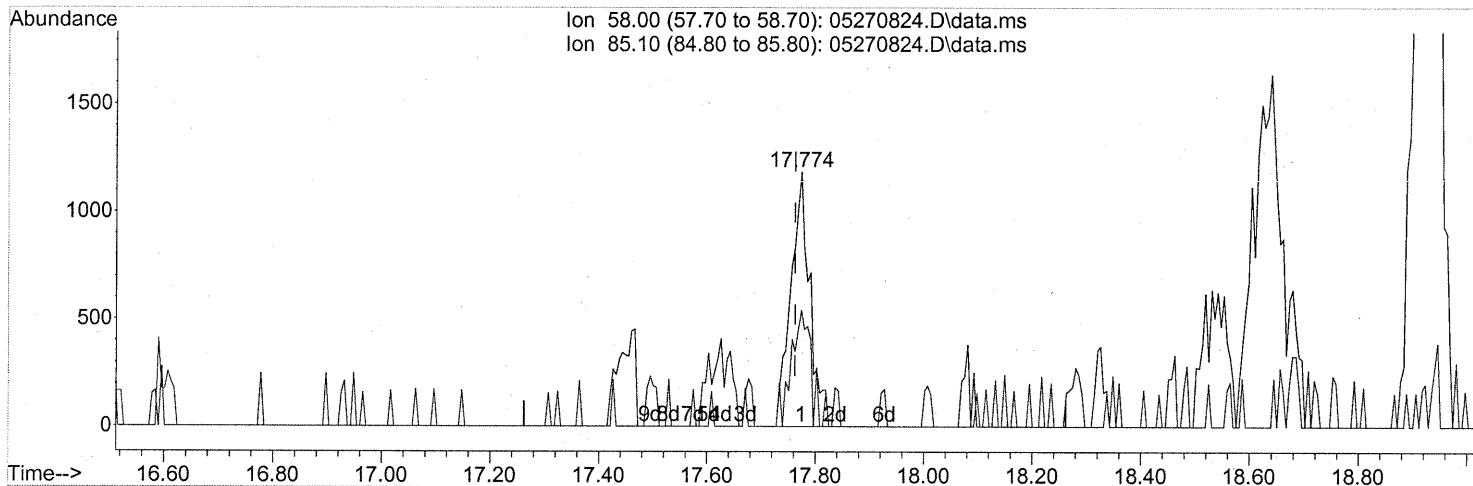
| Ion | Exp% | Act% |
|--------|--------|-------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 95.73 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1662

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.774min (+0.011) 0.09ng

response 2869

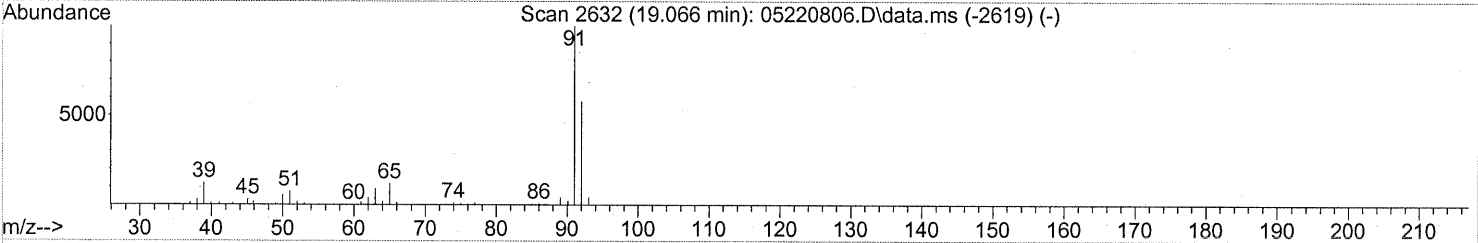
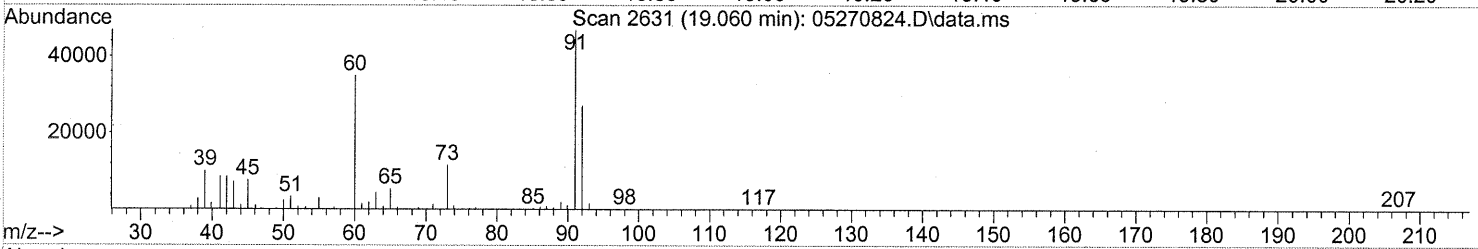
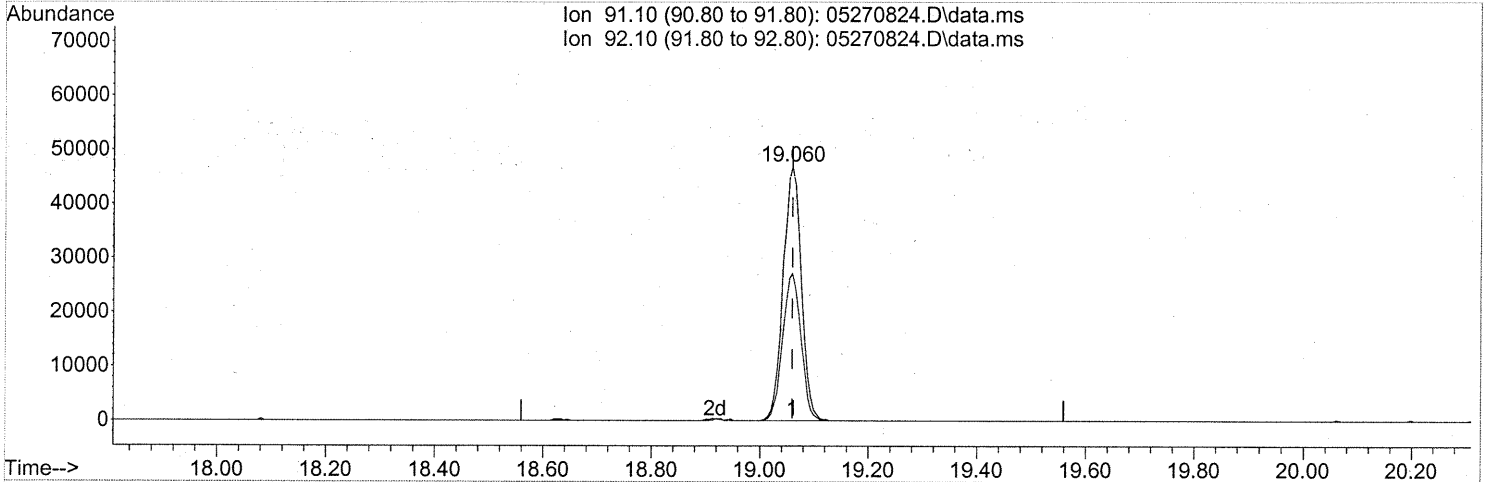
| Ion | Exp% | Act% |
|-------|-------|-------|
| 58.00 | 100 | 100 |
| 85.10 | 30.10 | 46.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1663

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 0.83ng

response 109977

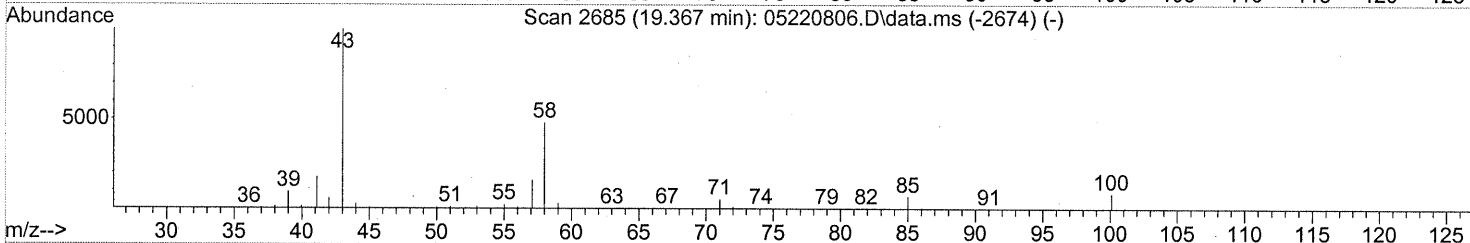
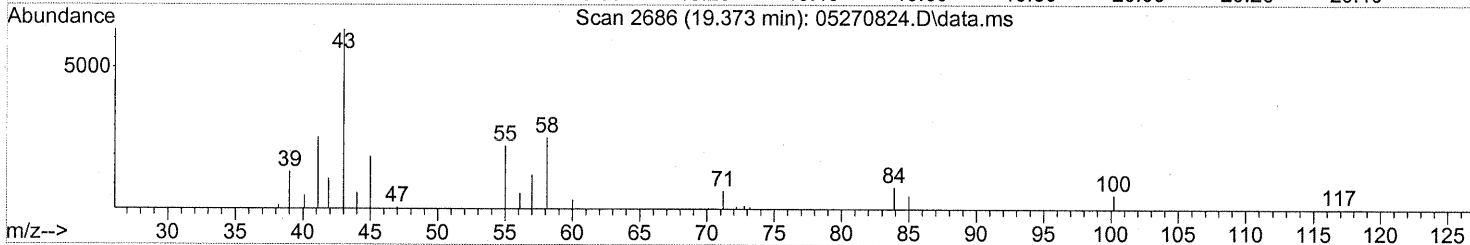
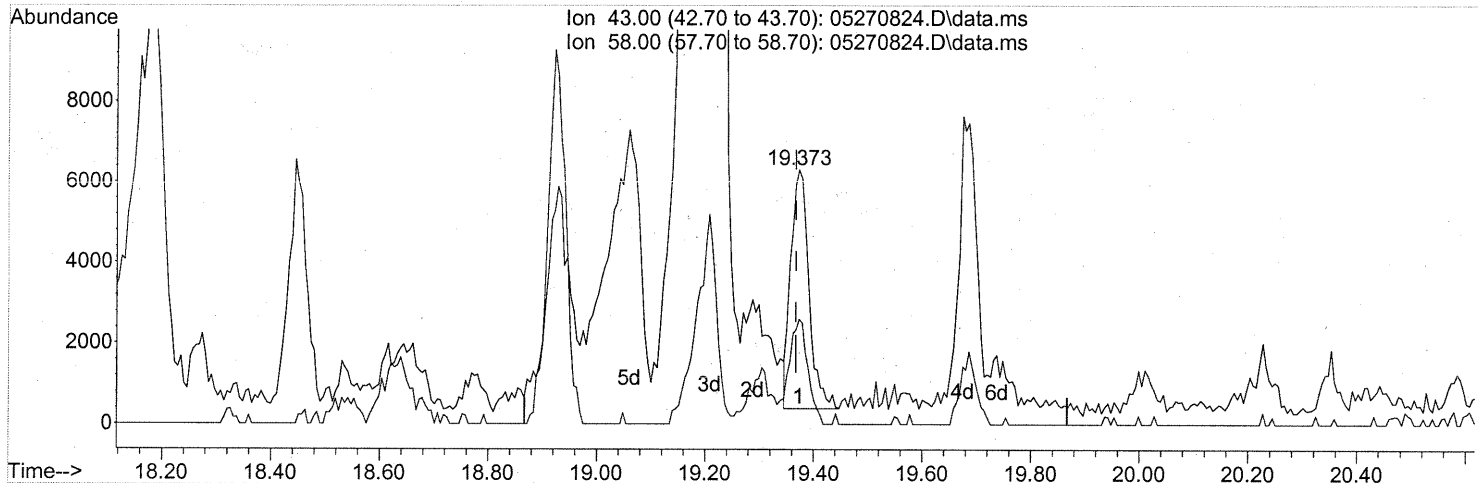
| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 58.32 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1664

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.373min (+0.006) 0.15ng

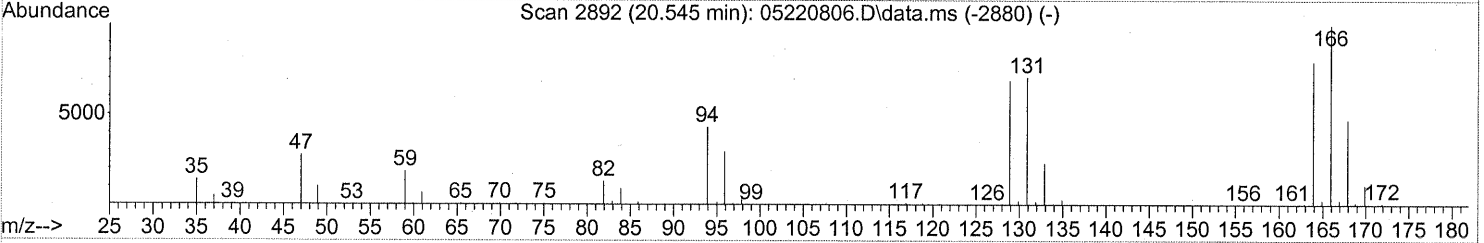
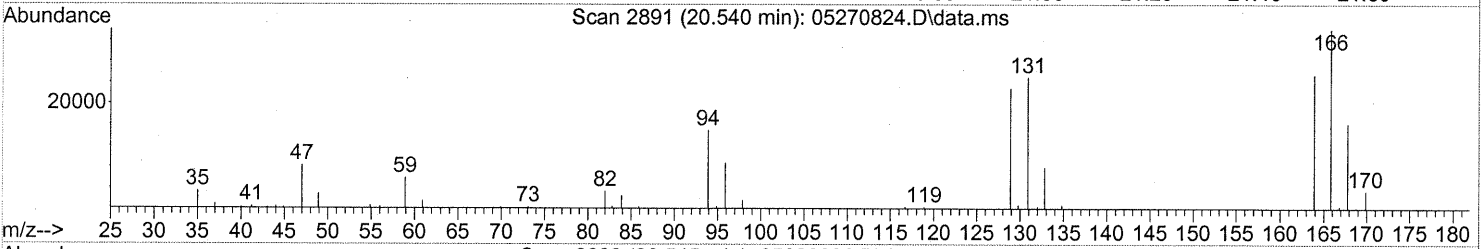
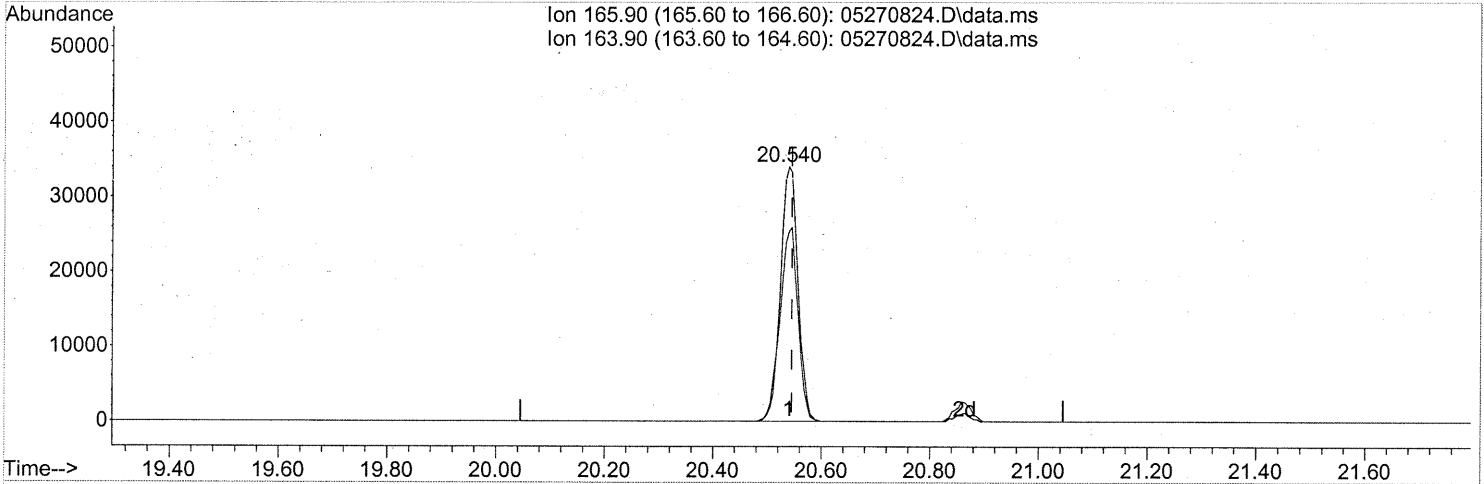
response 13842

| Ion | Exp% | Act% |
|-------|-------|-------|
| 43.00 | 100 | 100 |
| 58.00 | 61.70 | 46.21 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 1.96ng

response 77042

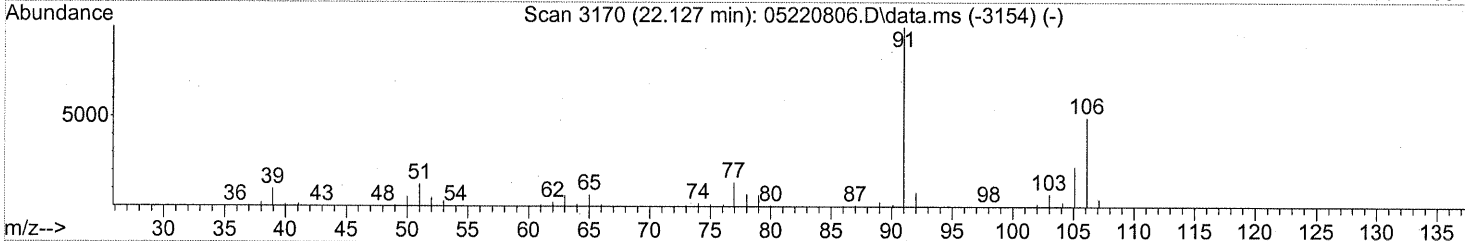
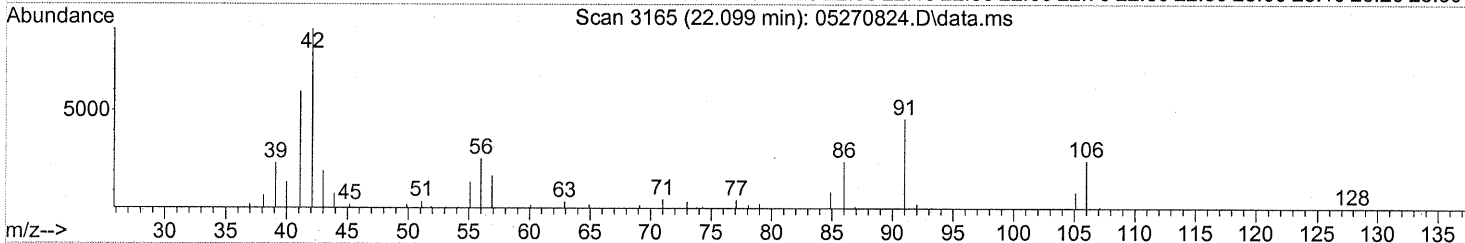
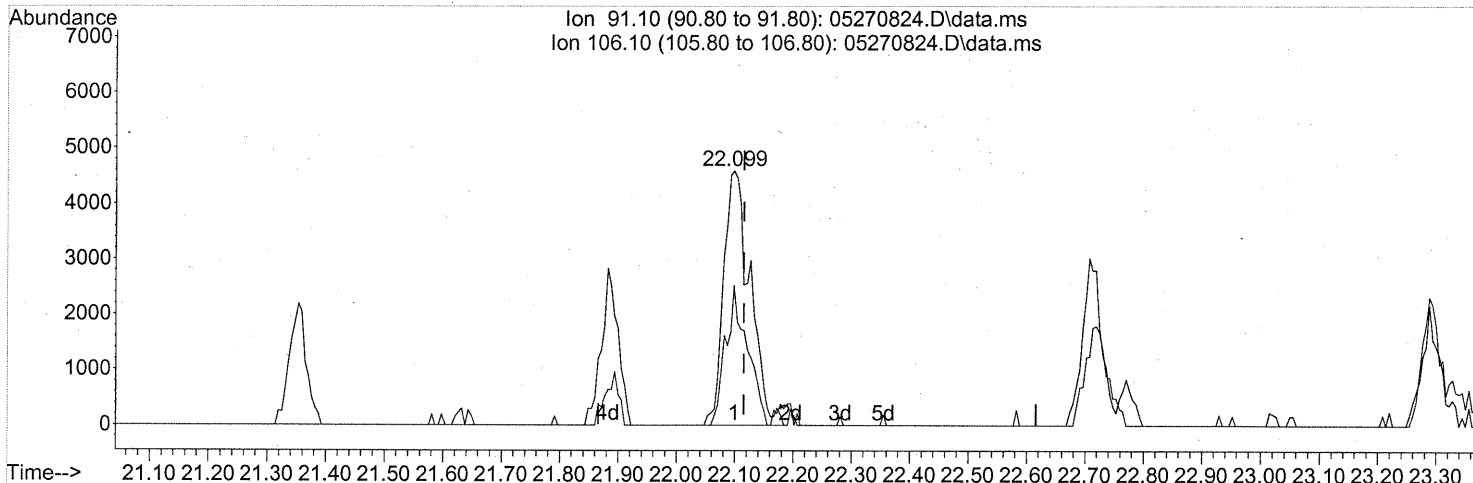
| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 76.38 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1666

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(67) m- & p-Xylene (T)

22.099min (-0.017) 0.14ng

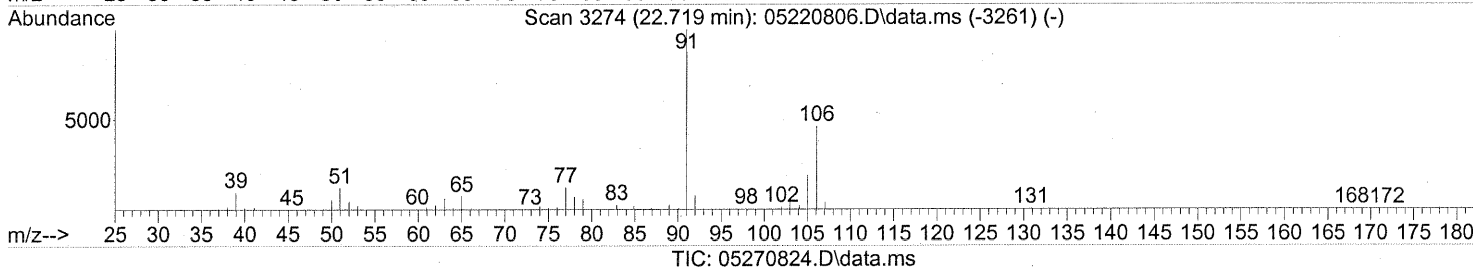
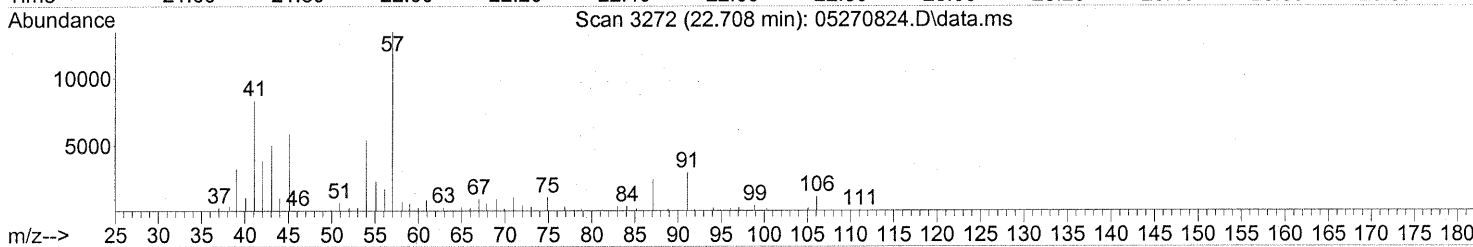
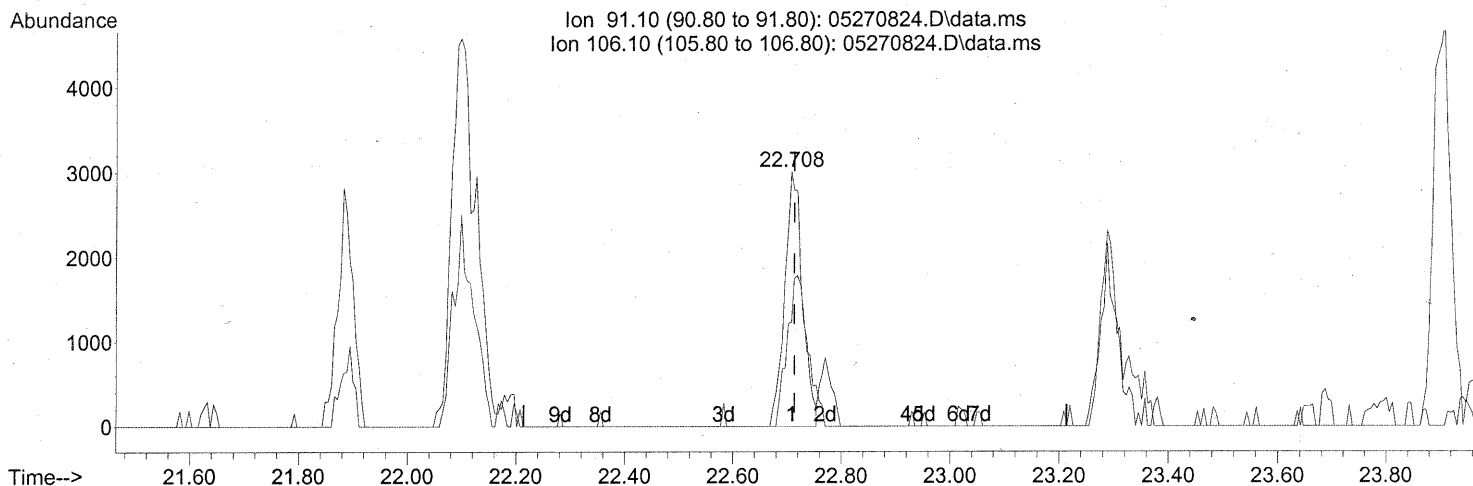
response 14413

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 45.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55 am
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 03 10:57:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



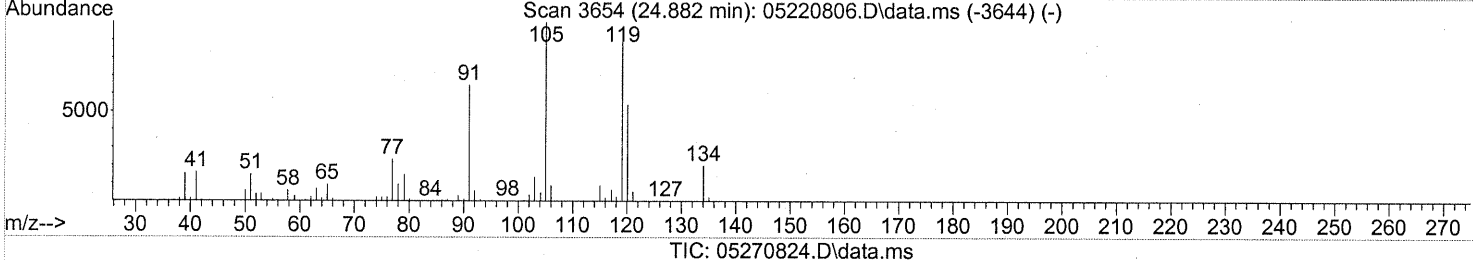
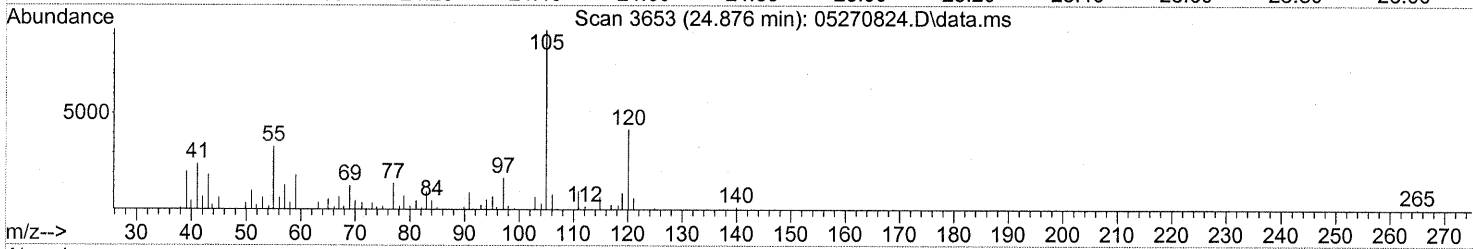
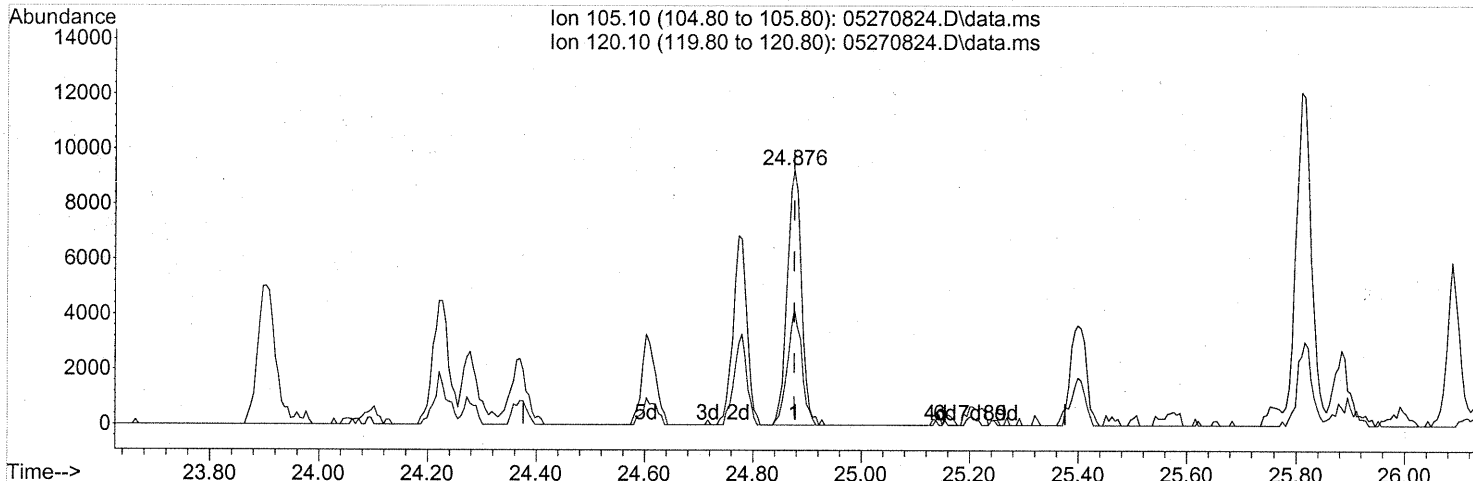
(70) o-Xylene (T)
 22.708min (-0.006) 0.06ng
 response 6872

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 69.02 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.13ng

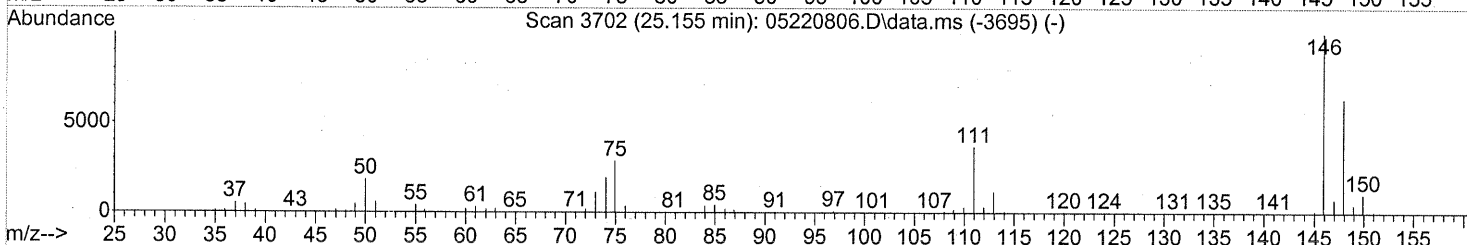
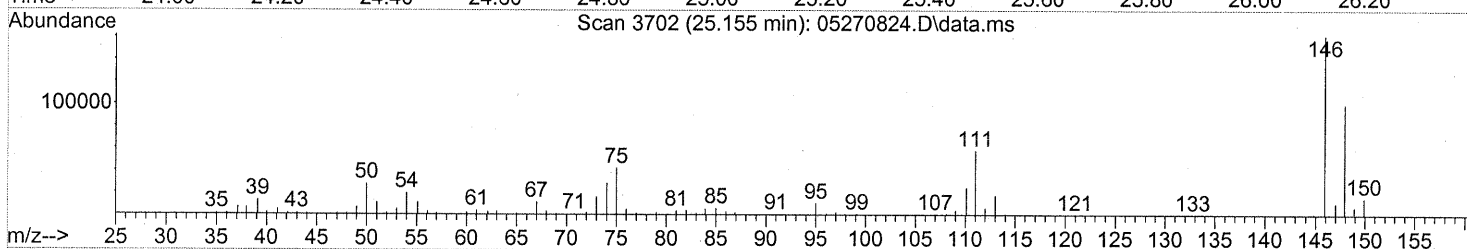
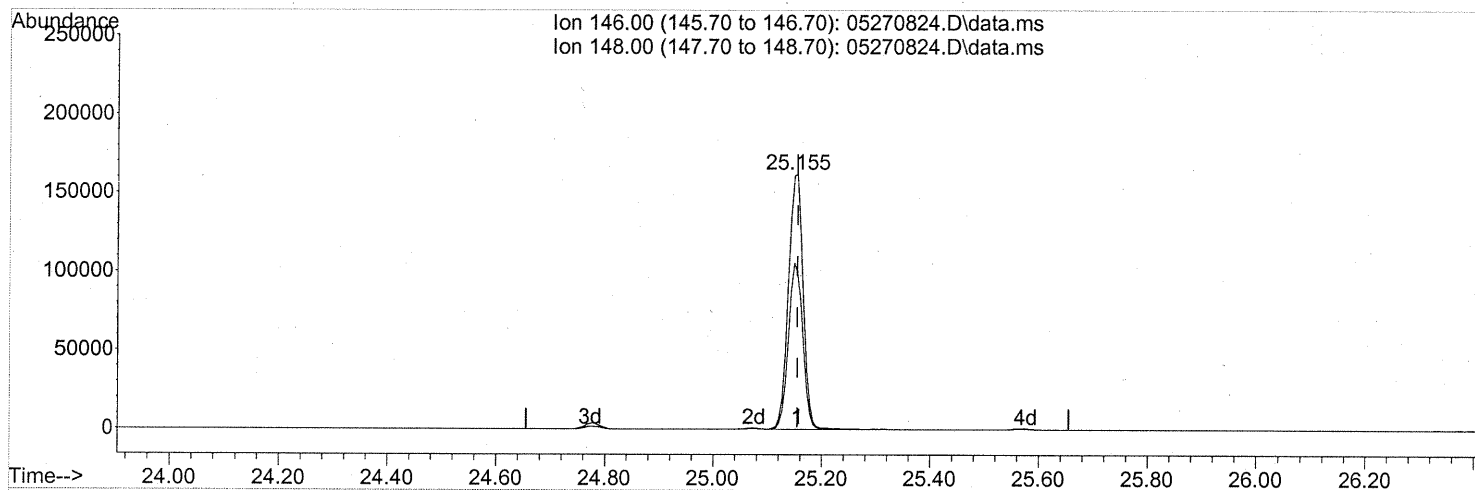
response 17117

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 44.89 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05270824.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 3.73ng

response 301860

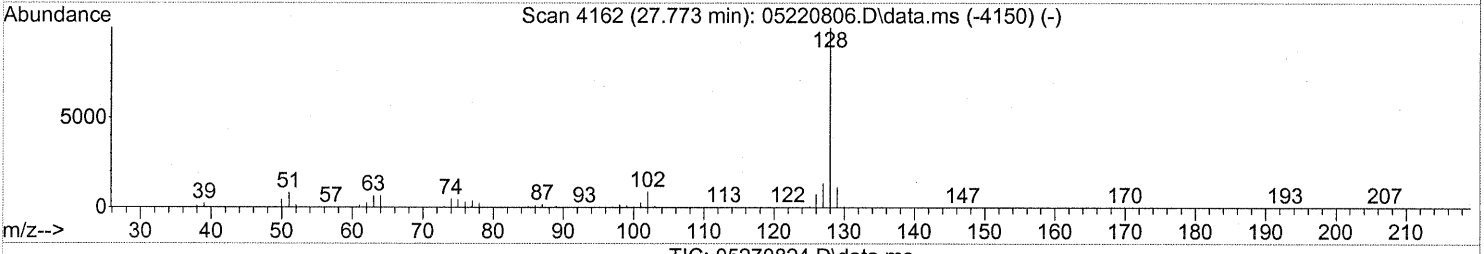
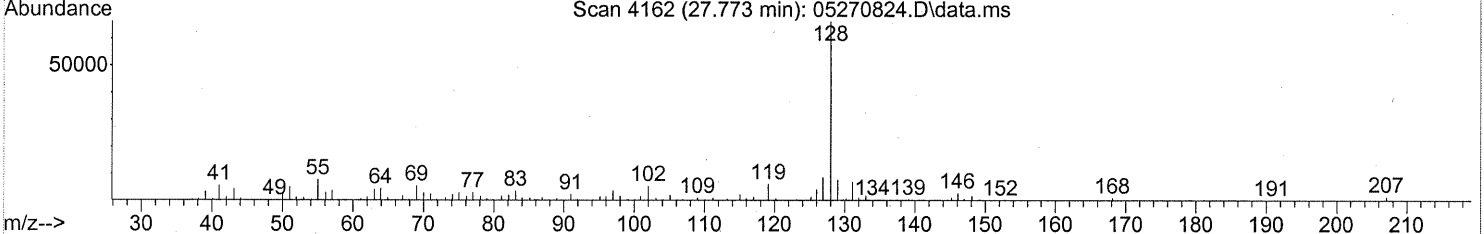
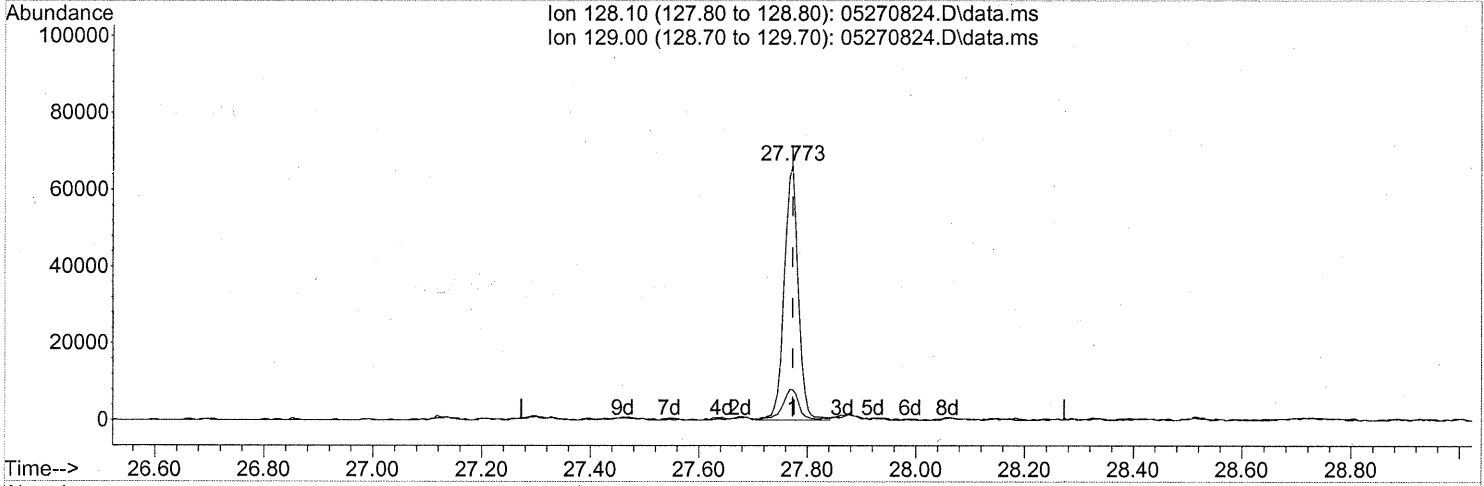
| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 63.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1670

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 1:55
Operator : WA
Sample : P0801483-018 Dup (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



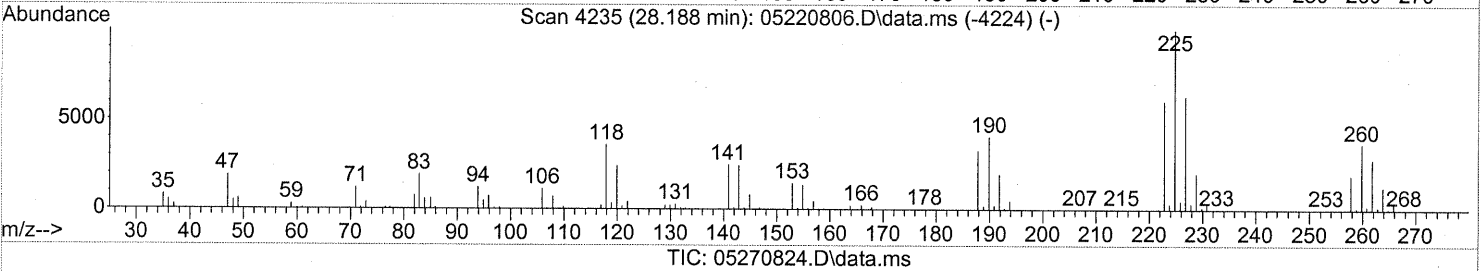
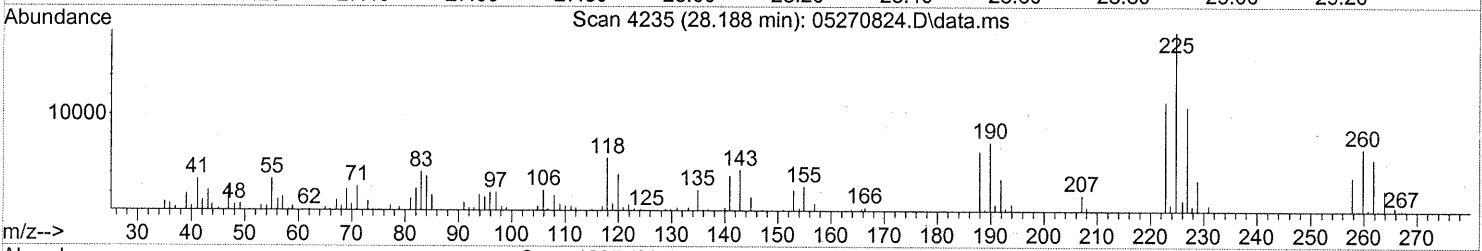
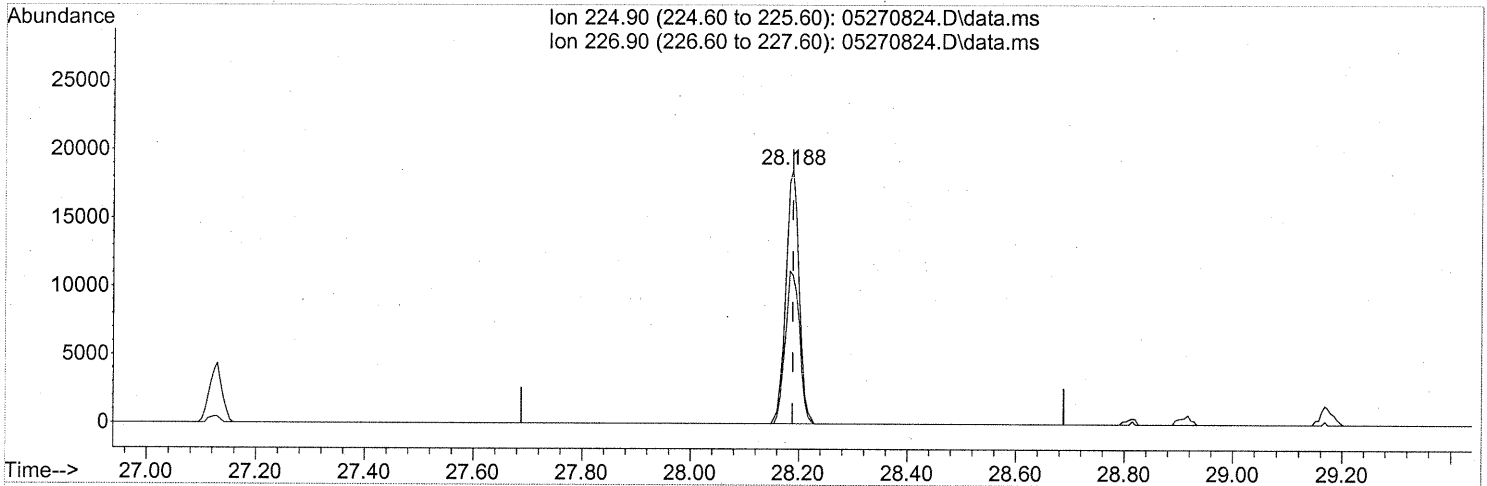
(95) Naphthalene (T)
27.773min (-0.000) 0.68ng
response 119462

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 14.11 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:14:10 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

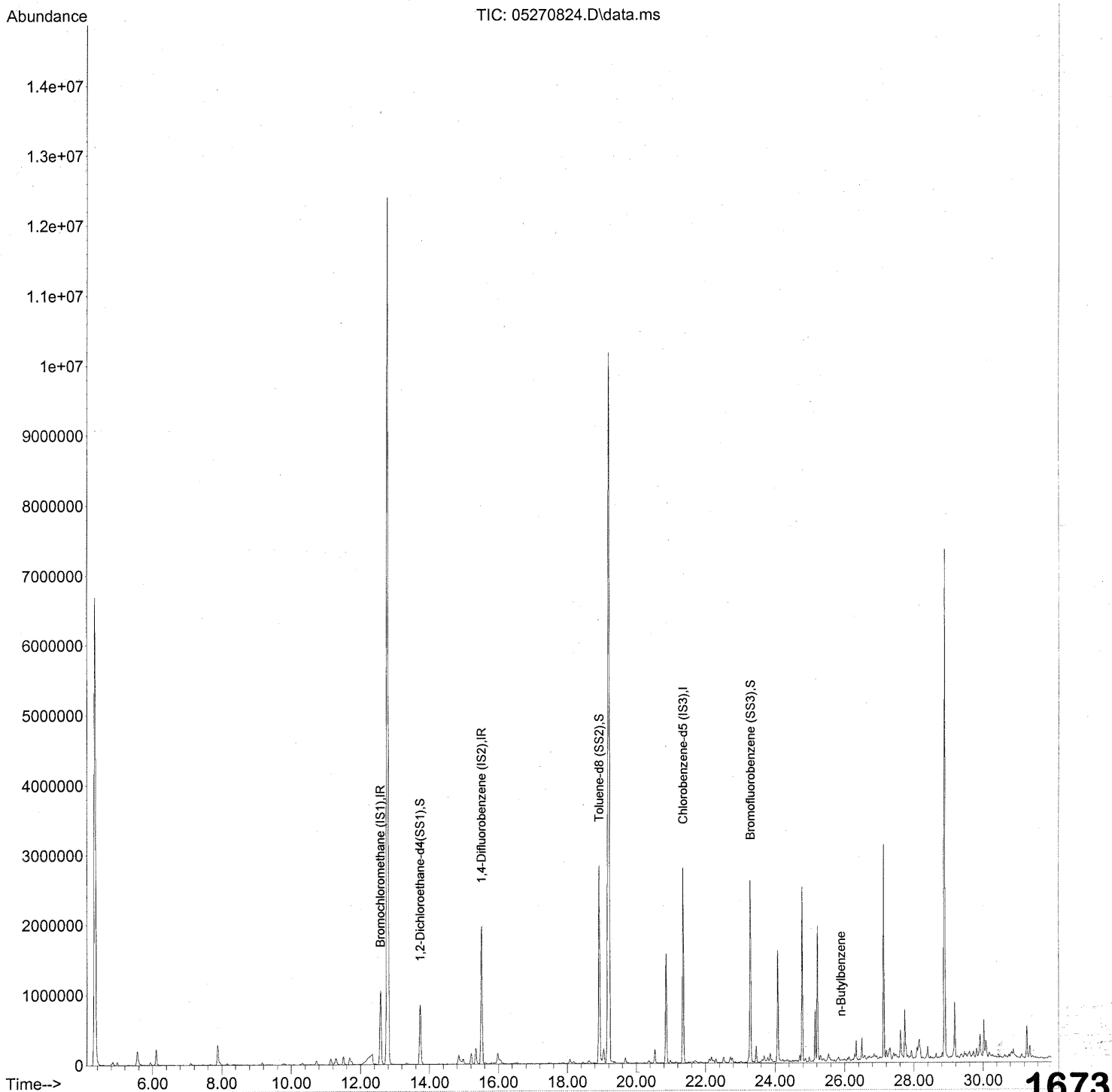
28.188min (-0.000) 0.82ng

response 31483

| Ion | Exp% | Act% |
|--------|-------|-------|
| 224.90 | 100 | 100 |
| 226.90 | 62.80 | 64.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 1:55 am
Operator : WA
Sample : P0801483-018 Dup (500ml)
Misc : ENSR SG27B-05 (-3.7, 3.6)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 13:13:09 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



1673

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55 am
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 13:13:09 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

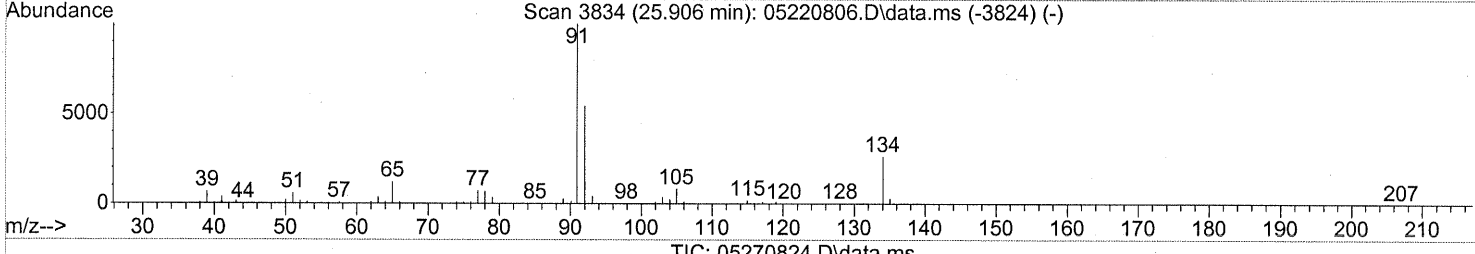
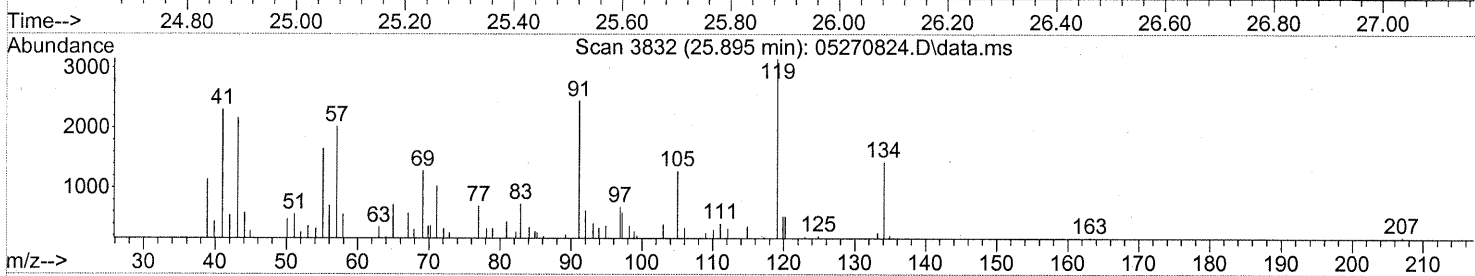
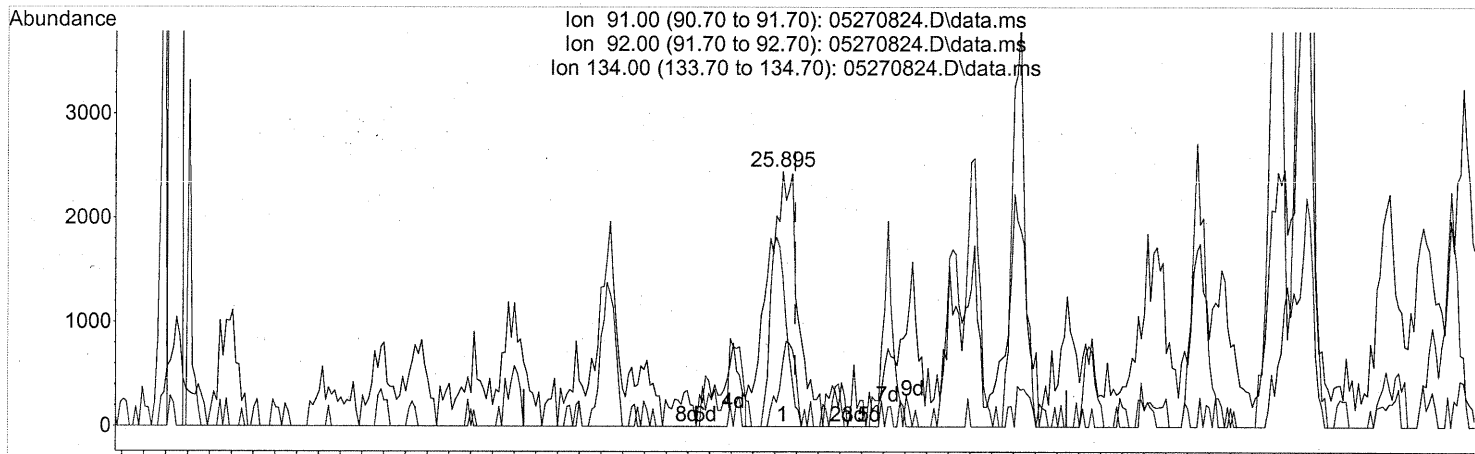
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 563725 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 2340601 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1086433 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 871825 | 22.320 | ng | -0.02 |
| Spiked Amount | 25.000 | | | Recovery | = | 89.28% |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2406143 | 24.660 | ng | -0.01 |
| Spiked Amount | 25.000 | | | Recovery | = | 98.64% |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 1009783 | 25.450 | ng | 0.00 |
| Spiked Amount | 25.000 | | | Recovery | = | 101.80% |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 2185 | N.D. | | Qvalue |
| 8) n-Butylbenzene | 25.89 | 91 | 9422 | 0.067 ng | # | 58 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270824.D
 Acq On : 28 May 2008 1:55
 Operator : WA
 Sample : P0801483-018 Dup (500ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 13:13:09 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



(8) n-Butylbenzene

25.895min (-0.023) 0.07ng

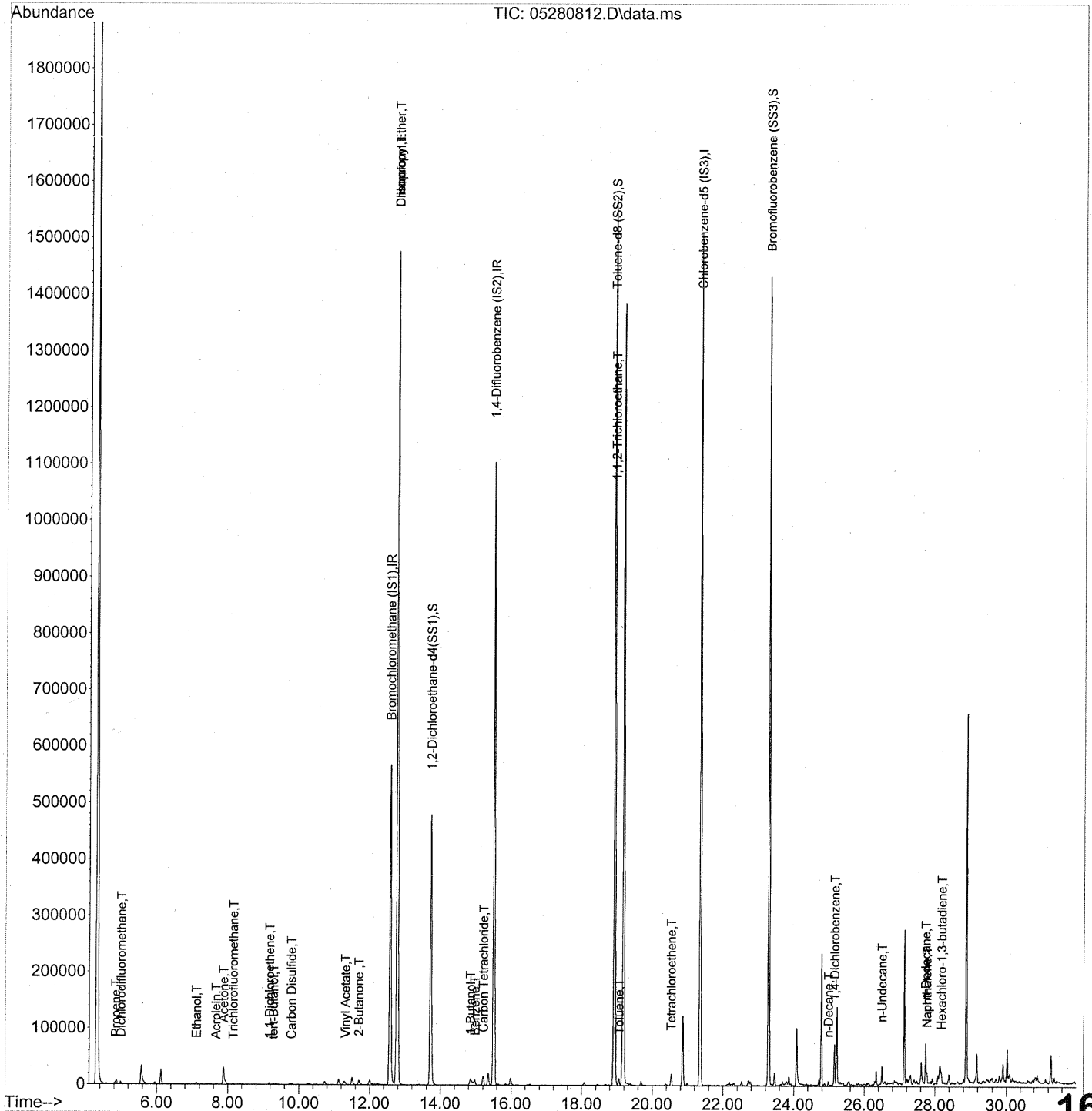
response 9422

| Ion | Exp% | Act% |
|--------|-------|--------|
| 91.00 | 100 | 100 |
| 92.00 | 55.70 | 17.66# |
| 134.00 | 28.80 | 40.46# |
| 0.00 | 0.00 | 0.00 |

1675

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280812.D
 Acq On : 28 May 2008 18:40
 Operator : WA
 Sample : P0801483-018 Dup Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



1676

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280812.D
 Acq On : 28 May 2008 18:40
 Operator : WA
 Sample : P0801483-018 Dup Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 298483 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1275076 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 589222 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 491359 | 23.758 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 95.04% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1315051 | 24.851 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.40% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 542972 | 25.232 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.92% | ✓ |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.84 | 42 | 2062 | 0.087 | ng | # 41 |
| 3) Dichlorodifluoromethane | 4.99 | 85 | 5024 | 0.116 | ng | 98 |
| 4) Chloromethane | 5.34 | 50 | 126 | N.D. | | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | | |
| 10) Ethanol | 7.11 | 45 | 4804 | 0.306 | ng | 86 |
| 11) Acetonitrile | 7.47 | 41 | 2204 | N.D. | | |
| 12) Acrolein | 7.67 | 56 | 1210 | 0.108 | ng | 95 |
| 13) Acetone | 7.88 | 58 | 19680 | 1.225 | ng | 96 |
| 14) Trichlorofluoromethane | 8.15 | 101 | 2107 | 0.057 | ng | 83 |
| 15) Isopropanol | 8.34 | 45 | 2066 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | | |
| 17) 1,1-Dichloroethene | 9.17 | 96 | 1360 | 0.083 | ng | # 87 |
| 18) tert-Butanol | 9.29 | 59 | 2259 | 0.052 | ng | # 90 |
| 19) Methylene Chloride | 9.36 | 84 | 459 | N.D. | | |
| 20) Allyl Chloride | 0.00 | 41 | 0 | N.D. | | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 130 | N.D. | | |
| 22) Carbon Disulfide | 9.78 | 76 | 3967 | 0.058 | ng | 85 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 24) 1,1-Dichloroethane | 0.00 | 63 | 0 | N.D. | | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | | |
| 26) Vinyl Acetate | 11.32 | 86 | 503 | 0.169 | ng | # 28 |
| 27) 2-Butanone | 11.70 | 72 | 3063 | 0.261 | ng | 98 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | | |
| 29) Diisopropyl Ether | 12.78 | 87 | 159617 | 11.108 | ng | # 1 |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 0.00 | 57 | 0 | N.D. | | |

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DA 6/2/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280812.D
 Acq On : 28 May 2008 18:40
 Operator : WA
 Sample : P0801483-018 Dup Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 1548527 | 56.894 | ng | 99 |
| 34) Tetrahydrofuran | 13.41 | 72 | 60 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.74 | 62 | 54 | N.D. | | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.85 | 56 | 13469 | 0.769 | ng | 97 |
| 41) Benzene | 14.98 | 78 | 9576 | 0.143 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 13342 | 0.519 | ng | 98 |
| 43) Cyclohexane | 15.39 | 84 | 55 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 15.88 | 73 | 176 | N.D. | | |
| 45) 1,2-Dichloropropane | 0.00 | 63 | 0 | N.D. | | |
| 46) Bromodichloromethane | 16.46 | 83 | 603 | N.D. | | |
| 47) Trichloroethene | 16.53 | 130 | 980 | N.D. | | |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | | |
| 49) Isooctane | 16.61 | 57 | 61 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. | | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 115760 | 7.017 | ng | # 8 |
| 58) Toluene | 19.06 | 91 | 11517 | 0.160 | ng | 97 |
| 59) 2-Hexanone | 19.38 | 43 | 1768 | N.D. | | |
| 60) Dibromochloromethane | 0.00 | 129 | 0 | N.D. | | |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | | |
| 62) Butyl Acetate | 20.19 | 43 | 308 | N.D. | | |
| 63) n-Octane | 20.35 | 57 | 81 | N.D. | | |
| 64) Tetrachloroethene | 20.53 | 166 | 7684 | 0.361 | ng | 95 |
| 65) Chlorobenzene | 0.00 | 112 | 0 | N.D. | | |
| 66) Ethylbenzene | 21.89 | 91 | 739 | N.D. | | |
| 67) m- & p-Xylene | 22.10 | 91 | 1791 | N.D. | | |
| 68) Bromoform | 0.00 | 173 | 0 | N.D. | | |
| 69) Styrene | 22.58 | 104 | 232 | N.D. | | |
| 70) o-Xylene | 22.71 | 91 | 1031 | N.D. | | |
| 71) n-Nonane | 22.98 | 43 | 1044 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.33 | 83 | 62 | N.D. | | |
| 74) Cumene | 23.47 | 105 | 433 | N.D. | | |
| 75) alpha-Pinene | 23.96 | 93 | 53 | N.D. | | |
| 76) n-Propylbenzene | 24.09 | 91 | 320 | N.D. | | |
| 77) 3-Ethyltoluene | 24.22 | 105 | 1387 | N.D. | | |
| 78) 4-Ethyltoluene | 24.28 | 105 | 1060 | N.D. | | |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 732 | N.D. | | |

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Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280812.D
 Acq On : 28 May 2008 18:40
 Operator : WA
 Sample : P0801483-018 Dup Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

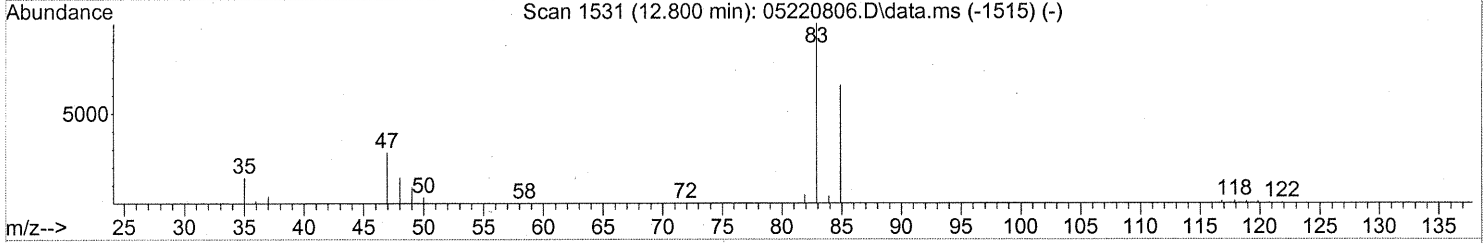
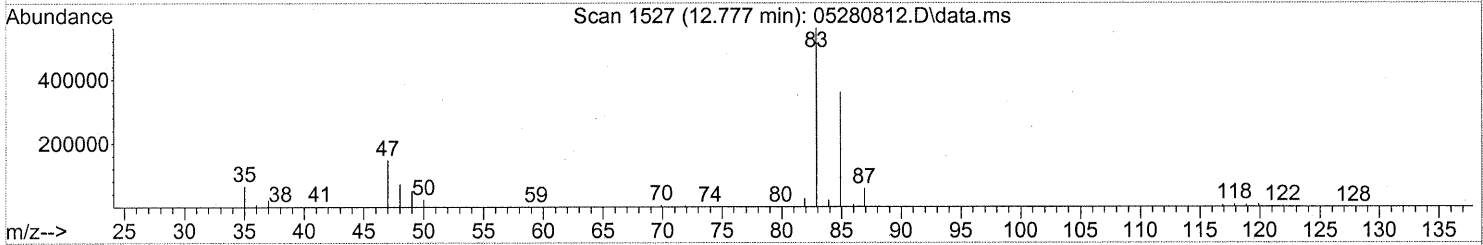
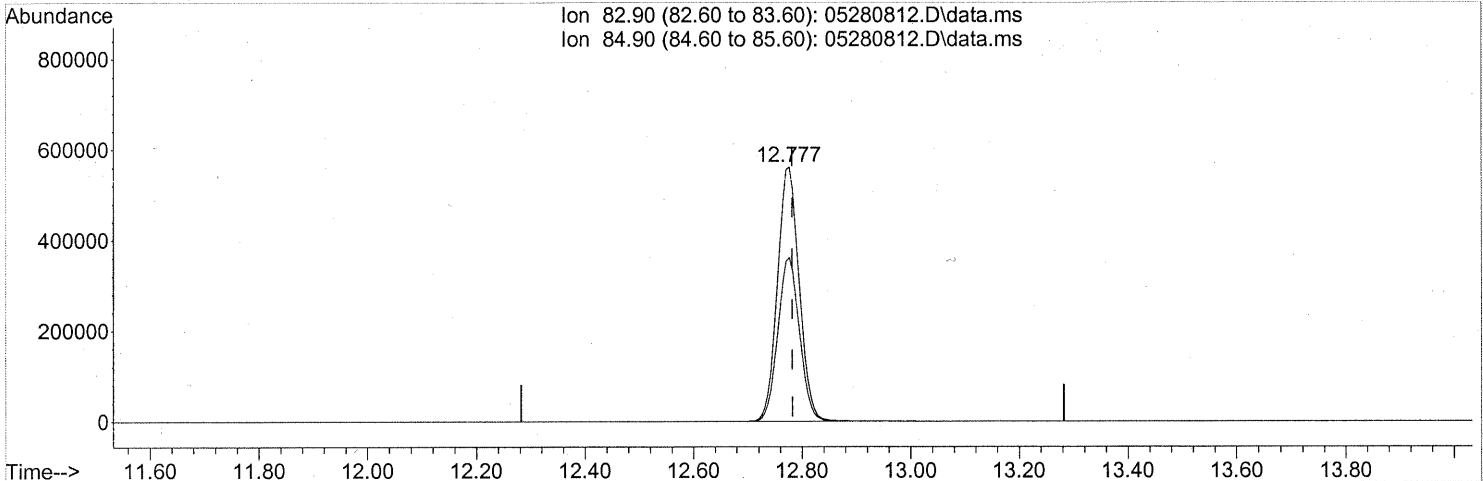
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|-------|-------|-----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 248 | N.D. | | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 952 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 2173 | N.D. | | |
| 83) n-Decane | 24.98 | 57 | 2587 | 0.065 | ng | 81 |
| 84) Benzyl Chloride | 25.04 | 91 | 650 | N.D. | | |
| 85) 1,3-Dichlorobenzene | 25.09 | 146 | 173 | N.D. | | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 31541 | 0.719 | ng | 100 |
| 87) sec-Butylbenzene | 25.21 | 105 | 140 | N.D. | | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 508 | N.D. | | |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 1058 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 355 | N.D. | | |
| 91) d-Limonene | 25.56 | 68 | 944 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. | | |
| 93) n-Undecane | 26.50 | 57 | 11604 | 0.278 | ng | 71 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 633 | N.D. | | |
| 95) Naphthalene | 27.77 | 128 | 14730 | 0.154 | ng | 99 |
| 96) n-Dodecane | 27.73 | 57 | 22000 | 0.531 | ng | 77 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 3268 | 0.156 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280812.D
 Acq On : 28 May 2008 18:40
 Operator : WA
 Sample : P0801483-018 Dup Dil (100ml)
 Misc : ENSR SG27B-05 (-3.7, 3.6)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 29 04:15:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



TIC: 05280812.D\data.ms

(32) Chloroform (T)

12.777min (-0.006) 56.89ng

response 1548527

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 64.18 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05230801.D
 Date Analyzed: 5/23/08
 Time Analyzed: 08:26

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (CBZ) | |
|-------------------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 24 Hour Standard | 507961 | 12.59 | 2149451 | 15.52 | 1005118 | 21.35 |
| Upper Limit | 711145 | 12.92 | 3009231 | 15.85 | 1407165 | 21.68 |
| Lower Limit | 304777 | 12.26 | 1289671 | 15.19 | 603071 | 21.02 |

Client Sample ID

| Client Sample ID | IS1 (BCM) AREA # | IS1 (BCM) RT # | IS2 (DFB) AREA # | IS2 (DFB) RT # | IS3 (CBZ) AREA # | IS3 (CBZ) RT # |
|-----------------------------|------------------|----------------|------------------|----------------|------------------|----------------|
| 01 Method Blank | 501092 | 12.58 | 2131510 | 15.51 | 985961 | 21.35 |
| 02 Lab Control Sample | 505476 | 12.59 | 2137808 | 15.52 | 1018747 | 21.35 |
| 03 SG76B-05 | 544273 | 12.58 | 2295502 | 15.51 | 1066690 | 21.35 |
| 04 SG78B-05 | 530786 | 12.58 | 2293187 | 15.51 | 1081463 | 21.35 |
| 05 SG78B-05 (Lab Duplicate) | 524459 | 12.58 | 2224929 | 15.51 | 1039261 | 21.35 |
| 06 SG81B-05 | 461344 | 12.58 | 1986639 | 15.51 | 938952 | 21.35 |
| 07 SG79B-05 | 390666 | 12.58 | 1900726 | 15.51 | 922168 | 21.35 |
| 08 SG80B-05 | 455877 | 12.58 | 2060083 | 15.51 | 959920 | 21.35 |
| 09 SG26B-05 | 458203 | 12.58 | 1987985 | 15.51 | 946143 | 21.35 |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Verified By: Date: 6/4/08 **1681**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05260801.D
 Date Analyzed: 5/26/08
 Time Analyzed: 09:27

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (CBZ) | |
|-------------------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 24 Hour Standard | 547571 | 12.59 | 2313827 | 15.52 | 1052805 | 21.35 |
| Upper Limit | 766599 | 12.92 | 3239358 | 15.85 | 1473927 | 21.68 |
| Lower Limit | 328543 | 12.26 | 1388296 | 15.19 | 631683 | 21.02 |

Client Sample ID

| Client Sample ID | IS1 (BCM) AREA # | IS1 (BCM) RT # | IS2 (DFB) AREA # | IS2 (DFB) RT # | IS3 (CBZ) AREA # | IS3 (CBZ) RT # |
|--|------------------|----------------|------------------|----------------|------------------|----------------|
| 01 Method Blank | 514960 | 12.58 | 2207660 | 15.51 | 999894 | 21.35 |
| 02 Lab Control Sample | 540353 | 12.58 | 2242155 | 15.51 | 1044731 | 21.35 |
| 03 SG61B-05 | 494589 | 12.58 | 2116782 | 15.51 | 982080 | 21.35 |
| 04 SG78B-05 (Dilution) | 493460 | 12.58 | 2115084 | 15.51 | 978318 | 21.35 |
| 05 SG78B-05 (Lab Duplicate - Dilution) | 481030 | 12.58 | 2083930 | 15.51 | 966660 | 21.35 |
| 06 SG81B-05 (Dilution) | 474371 | 12.58 | 2060003 | 15.51 | 950062 | 21.35 |
| 07 SG80B-05 (Dilution) | 470350 | 12.58 | 2015265 | 15.51 | 944470 | 21.35 |
| 08 SG26B-05 (Dilution) | 461165 | 12.58 | 1984701 | 15.51 | 928554 | 21.35 |
| 09 SG26B-05D | 432519 | 12.58 | 1890721 | 15.51 | 895550 | 21.35 |
| 10 SG26B-05D (Dilution) | 452319 | 12.58 | 1975820 | 15.51 | 906180 | 21.35 |
| 11 SG28B-05D | 434582 | 12.58 | 1840194 | 15.51 | 878797 | 21.35 |
| 12 SG28B-05D (Dilution) | 446839 | 12.58 | 1934163 | 15.51 | 896144 | 21.35 |
| 13 SG22B-05 | 435098 | 12.58 | 1879188 | 15.51 | 901484 | 21.35 |
| 14 SG86B-05 | 447794 | 12.58 | 1909931 | 15.51 | 893874 | 21.35 |
| 15 SG86B-05 (Dilution) | 459021 | 12.58 | 1987046 | 15.51 | 916855 | 21.35 |
| 16 SG28B-05 | 447700 | 12.58 | 1942165 | 15.51 | 907711 | 21.35 |
| 17 SG62B-05 | 449032 | 12.58 | 1922962 | 15.51 | 906926 | 21.35 |
| 18 SG76B-05 (Dilution) | 448384 | 12.57 | 1916566 | 15.51 | 879323 | 21.35 |
| 19 | | | | | | |
| 20 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Verified By: CA

Date: 6/4/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05270801.D
 Date Analyzed: 5/27/08
 Time Analyzed: 07:30

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (CBZ) | |
|-------------------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 24 Hour Standard | 452637 | 12.59 | 1917052 | 15.52 | 909333 | 21.35 |
| Upper Limit | 633692 | 12.92 | 2683873 | 15.85 | 1273066 | 21.68 |
| Lower Limit | 271582 | 12.26 | 1150231 | 15.19 | 545600 | 21.02 |

Client Sample ID

| Client Sample ID | IS1 (BCM) AREA # | IS1 (BCM) RT # | IS2 (DFB) AREA # | IS2 (DFB) RT # | IS3 (CBZ) AREA # | IS3 (CBZ) RT # |
|-----------------------------|------------------|----------------|------------------|----------------|------------------|----------------|
| 01 Method Blank | 436763 | 12.58 | 1861684 | 15.51 | 860403 | 21.35 |
| 02 Lab Control Sample | 443735 | 12.59 | 1884243 | 15.51 | 889366 | 21.35 |
| 03 SG22B-05 (Dilution) | 524387 | 12.58 | 2253280 | 15.51 | 1058339 | 21.35 |
| 04 SG62B-05 (Dilution) | 499212 | 12.58 | 2099195 | 15.51 | 997534 | 21.35 |
| 05 SG61B-05 (Dilution) | 480054 | 12.58 | 2046521 | 15.51 | 970167 | 21.35 |
| 06 SG83B-05D | 463175 | 12.58 | 1975601 | 15.51 | 942315 | 21.35 |
| 07 SG83B-05D (Dilution) | 457316 | 12.58 | 1922557 | 15.51 | 909590 | 21.35 |
| 08 SG82B-05 | 458314 | 12.58 | 1954879 | 15.51 | 1018129 | 21.35 |
| 09 SG82B-05 (Dilution) | 493378 | 12.58 | 2089356 | 15.51 | 981540 | 21.35 |
| 10 SG63B-05 | 476389 | 12.58 | 1976297 | 15.51 | 975336 | 21.35 |
| 11 SG27B-05 | 514732 | 12.58 | 2168190 | 15.51 | 1024484 | 21.35 |
| 12 SG16B-05 | 528439 | 12.58 | 2230556 | 15.51 | 1064161 | 21.35 |
| 13 SG12B-05 | 548178 | 12.58 | 2341654 | 15.51 | 1158324 | 21.35 |
| 14 SG08B-05 | 568180 | 12.58 | 2384709 | 15.51 | 1120415 | 21.35 |
| 15 SG09B-05 | 569671 | 12.59 | 2383351 | 15.52 | 1142118 | 21.35 |
| 16 SG11B-05 | 572443 | 12.58 | 2406322 | 15.51 | 1114220 | 21.35 |
| 17 SG10B-05 | 570758 | 12.58 | 2408496 | 15.51 | 1112436 | 21.35 |
| 18 SG27B-05 (Lab Duplicate) | 563725 | 12.58 | 2340601 | 15.51 | 1086433 | 21.35 |
| 19 SG07B-05 | 554275 | 12.58 | 2315124 | 15.51 | 1089370 | 21.35 |
| 20 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Verified By: Date: 6/4/08 **1683**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05280801.D
 Date Analyzed: 5/28/08
 Time Analyzed: 07:18

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (CBZ) | |
|-------------------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 24 Hour Standard | 337782 | 12.58 | 1418631 | 15.51 | 650717 | 21.35 |
| Upper Limit | 472895 | 12.91 | 1986083 | 15.84 | 911004 | 21.68 |
| Lower Limit | 202669 | 12.25 | 851179 | 15.18 | 390430 | 21.02 |

Client Sample ID

| Client Sample ID | IS1 (BCM) | IS2 (DFB) | IS3 (CBZ) |
|--|-----------|-----------|-----------|
| 01 Method Blank | 322308 | 12.58 | 618383 |
| 02 Lab Control Sample | 324220 | 12.59 | 629262 |
| 03 SG83B-05 | 314404 | 12.58 | 613875 |
| 04 SG83B-05 (Dilution) | 308951 | 12.57 | 601748 |
| 05 SG32B-05 | 297813 | 12.58 | 589313 |
| 06 SG63B-05 (Dilution) | 289623 | 12.58 | 585745 |
| 07 SG12B-05 (Dilution) | 296307 | 12.57 | 598563 |
| 08 SG32B-05 (Dilution) | 298012 | 12.57 | 583916 |
| 09 SG27B-05 (Dilution) | 297312 | 12.58 | 593640 |
| 10 SG27B-05 (Lab Duplicate - Dilution) | 298483 | 12.58 | 589222 |
| 11 SG08B-05 (Dilution) | 294588 | 12.57 | 597369 |
| 12 SG09B-05 (Dilution) | 295481 | 12.57 | 590604 |
| 13 SG11B-05 (Dilution) | 295607 | 12.58 | 588130 |
| 14 SG10B-05 (Dilution) | 292578 | 12.58 | 590099 |
| 15 SG07B-05 (Dilution) | 292730 | 12.58 | 587873 |
| 16 SG07B-05D | 304032 | 12.58 | 610655 |
| 17 SG07B-05D (Dilution) | 300693 | 12.58 | 594738 |
| 18 SG17B-05 | 306641 | 12.58 | 617431 |
| 19 SG18B-05 | 321448 | 12.59 | 635385 |
| 20 SG33B-05 | 321929 | 12.58 | 646785 |

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

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Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Verified By: Date: 6/4/08

1684

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: ENSR
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483

Internal Standard Area and RT Summary

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister(s)
 Test Notes:

Lab File ID: 05290802.D
 Date Analyzed: 5/29/08
 Time Analyzed: 05:09

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (CBZ) | |
|-------------------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 24 Hour Standard | 326447 | 12.59 | 1381121 | 15.52 | 649243 | 21.35 |
| Upper Limit | 457026 | 12.92 | 1933569 | 15.85 | 908940 | 21.68 |
| Lower Limit | 195868 | 12.26 | 828673 | 15.19 | 389546 | 21.02 |

Client Sample ID

| Client Sample ID | IS1 (BCM) | IS2 (DFB) | IS3 (CBZ) |
|------------------------|--------------|---------------|--------------|
| 01 Method Blank | 308064 12.58 | 1301306 15.51 | 606309 21.35 |
| 02 SG18B-05 (Dilution) | 284810 12.58 | 1221456 15.51 | 578085 21.35 |
| 03 SG28B-05 (Dilution) | 278758 12.58 | 1211479 15.51 | 562185 21.35 |
| 04 Lab Control Sample | 309118 12.59 | 1295487 15.51 | 597618 21.35 |
| 05 | | | |
| 06 | | | |
| 07 | | | |
| 08 | | | |
| 09 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 17 | | | |
| 18 | | | |
| 19 | | | |
| 20 | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area
 AREA LOWER LIMIT = 60% of internal standard area
 RT UPPER LIMIT = 0.33 minutes of internal standard RT
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

Verified By: Date: 6/4/08 **1685**

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS13\METHODS\
 Method File : R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:20:46 2008
 Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
 25 =05220806.D 50 =05220807.D 100 =05220808.D

| Compound | 0.1 | 0.5 | 1.0 | 5.0 | 25 | 50 | 100 | Avg | %RSD |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1) IR Bromochloromethane (I | 2.996 | 2.142 | 1.885 | 1.694 | 1.693 | 1.735 | 1.676 | 1.974 | 24.32 |
| 2) Propene | 4.403 | 4.247 | 3.956 | 3.401 | 3.313 | 3.156 | 2.998 | 3.639 | 15.31 |
| 3) Dichlorodifluoromet | 2.957 | 3.067 | 2.796 | 2.018 | 2.332 | 2.045 | 1.281 | 2.357 | 26.99 |
| 4) Chloromethane | 2.153 | 2.139 | 1.885 | 1.633 | 1.610 | 1.556 | 1.557 | 1.790 | 14.92 |
| 5) Freon 114 | 2.718 | 2.689 | 2.542 | 2.163 | 2.207 | 2.119 | 2.068 | 2.358 | 11.93 |
| 6) Vinyl Chloride | 1.659 | 1.954 | 1.730 | 1.666 | 1.787 | 1.769 | 1.713 | 1.754 | 5.72 |
| 7) 1,3-Butadiene | 1.626 | 1.472 | 1.337 | 1.161 | 1.224 | 1.203 | 1.169 | 1.313 | 13.46 |
| 8) Bromomethane | 1.226 | 1.327 | 1.162 | 1.041 | 1.050 | 1.032 | 1.003 | 1.120 | 10.85 |
| 9) Chloroethane | 1.635 | 1.517 | 1.362 | 1.140 | 1.191 | 1.186 | 1.170 | 1.314 | 14.85 |
| 10) Ethanol | 6.122 | 4.022 | 3.645 | 3.315 | 3.213 | 3.203 | 3.086 | 3.801 | 28.24 |
| 11) Acetonitrile | 0.968 | 1.081 | 0.964 | 0.844 | 0.914 | 0.909 | 0.893 | 0.939 | 8.07 |
| 12) Acrolein | 1.963 | 1.497 | 1.180 | 1.172 | 1.172 | 1.146 | 1.118 | 1.346 | 24.71 |
| 13) Acetone | 3.673 | 3.687 | 3.177 | 2.901 | 2.908 | 2.808 | 2.702 | 3.122 | 13.04 |
| 14) Trichlorofluorometh | 5.776 | 5.067 | 4.561 | 3.546 | 4.053 | 3.658 | 3.384 | 4.292 | 20.66 |
| 15) Isopropanol | 1.923 | 2.234 | 2.145 | 1.930 | 2.079 | 2.050 | 1.983 | 2.049 | 5.60 |
| 16) Acrylonitrile | 1.512 | 1.582 | 1.406 | 1.279 | 1.305 | 1.283 | 1.247 | 1.373 | 9.48 |
| 17) 1,1-Dichloroethene | 4.223 | 4.305 | 3.973 | 3.489 | 3.769 | 3.668 | 2.128 | 3.651 | 20.07 |
| 18) tert-Butanol | 1.910 | 1.686 | 1.599 | 1.344 | 1.368 | 1.329 | 1.293 | 1.504 | 15.50 |
| 19) Methylene Chloride | 1.466 | 1.992 | 1.865 | 1.947 | 2.252 | 2.275 | 2.251 | 2.007 | 14.50 |
| 20) Allyl Chloride | 1.781 | 1.592 | 1.471 | 1.292 | 1.301 | 1.276 | 1.227 | 1.420 | 14.40 |
| 21) Trichlorotrifluoroe | 7.391 | 6.305 | 5.692 | 5.153 | 5.306 | 5.151 | 4.955 | 5.707 | 15.23 |
| 22) Carbon Disulfide | 2.502 | 2.491 | 2.233 | 2.074 | 2.138 | 2.086 | 2.050 | 2.225 | 8.75 |
| 23) trans-1,2-Dichloroe | 2.778 | 3.083 | 2.737 | 2.443 | 2.471 | 2.415 | 2.342 | 2.610 | 10.19 |
| 24) 1,1-Dichloroethane | 4.983 | 4.864 | 4.518 | 4.093 | 4.135 | 4.014 | 3.857 | 4.352 | 10.10 |
| 25) Methyl tert-Butyl E | 1.137 | 1.125 | 0.977 | 0.900 | 0.951 | 0.923 | 0.862 | 0.982 | 24.15 |
| 26) Vinyl Acetate | 2.376 | 2.444 | 2.222 | 1.960 | 2.018 | 1.960 | 1.904 | 2.126 | 11.00 |
| 27) 2-Butanone | 1.432 | 1.325 | 1.184 | 1.109 | 1.151 | 1.136 | 1.089 | 1.204 | 10.33 |
| 28) cis-1,2-Dichloroeth | 0.496 | 0.589 | 0.542 | 0.495 | 0.531 | 0.538 | 0.521 | 0.530 | 10.55 |
| 29) Diisopropyl Ether | 3.007 | 2.923 | 2.684 | 2.497 | 2.603 | 2.562 | 2.454 | 2.676 | 6.03 |
| 30) Ethyl Acetate | | | | | | | | | 7.93 |
| 31) n-Hexane | | | | | | | | | |

05/22/08

Method Path : J:\MS13\METHODS\
 Method File : R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:20:46 2008
 Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
 25 =05220806.D 50 =05220807.D 100 =05220808.D

| Compound | 0.1 | 0.5 | 1.0 | 5.0 | 25 | 50 | 100 | Avg | %RSD |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 32) T Chloroform | 2.691 | 2.730 | 2.328 | 2.094 | 2.109 | 2.037 | 1.968 | 2.280 | 13.80 |
| 33) S 1,2-Dichloroethane | 1.794 | 1.789 | 1.787 | 1.711 | 1.716 | 1.686 | 1.643 | 1.732 | 3.40 |
| 34) T Tetrahydrofuran | 1.021 | 1.099 | 0.975 | 0.873 | 0.917 | 0.866 | 0.821 | 0.939 | 10.44 |
| 35) T Ethyl tert-Butyl Et | 1.797 | 1.942 | 1.697 | 1.574 | 1.637 | 1.594 | 1.558 | 1.686 | 8.30 |
| 36) T 1,2-Dichloroethane | 2.524 | 2.601 | 2.310 | 2.054 | 2.082 | 1.969 | 1.877 | 2.202 | 12.72 |
| -----ISTD----- | | | | | | | | | |
| 37) IR 1,4-Difluorobenzene (| 0.651 | 0.628 | 0.604 | 0.535 | 0.535 | 0.522 | 0.511 | 0.569 | 9.96 |
| 38) T 1,1,1-Trichloroetha | 0.187 | 0.233 | 0.196 | 0.205 | 0.227 | 0.225 | 0.221 | 0.214 | 8.22 |
| 39) T Isopropyl Acetate | 0.277 | 0.375 | 0.316 | 0.325 | 0.370 | 0.375 | 0.367 | 0.344 | 11.13 |
| 40) T 1-Butanol | 1.560 | 1.436 | 1.299 | 1.209 | 1.254 | 1.224 | 1.181 | 1.309 | 10.62 |
| 41) T Benzene | 0.497 | 0.547 | 0.505 | 0.483 | 0.507 | 0.498 | 0.491 | 0.504 | 4.12 |
| 42) T Carbon Tetrachlorid | 0.567 | 0.593 | 0.522 | 0.468 | 0.478 | 0.468 | 0.468 | 0.509 | 10.32 |
| 43) T Cyclohexane | 1.002 | 1.053 | 0.908 | 0.885 | 0.923 | 0.910 | 0.891 | 0.939 | 6.77 |
| 44) T tert-Amyl Methyl Et | 0.363 | 0.416 | 0.357 | 0.321 | 0.336 | 0.330 | 0.329 | 0.350 | 9.41 |
| 45) T 1,2-Dichloropropane | 0.439 | 0.509 | 0.447 | 0.421 | 0.433 | 0.428 | 0.420 | 0.442 | 7.00 |
| 46) T Bromodichloromethan | 0.530 | 0.487 | 0.406 | 0.352 | 0.352 | 0.341 | 0.344 | 0.402 | 19.24 |
| 47) T Trichloroethene | 0.276 | 0.274 | 0.245 | 0.229 | 0.237 | 0.234 | 0.233 | 0.247 | 8.06 |
| 48) T 1,4-Dioxane | 1.679 | 1.676 | 1.522 | 1.389 | 1.455 | 1.415 | 1.368 | 1.501 | 8.71 |
| 49) T Isooctane | 0.122 | 0.144 | 0.120 | 0.125 | 0.137 | 0.134 | 0.133 | 0.131 | 6.68 |
| 50) T Methyl Methacrylate | 0.343 | 0.392 | 0.351 | 0.330 | 0.347 | 0.337 | 0.335 | 0.348 | 5.94 |
| 51) T n-Heptane | 0.487 | 0.576 | 0.503 | 0.497 | 0.534 | 0.527 | 0.518 | 0.520 | 5.69 |
| 52) T cis-1,3-Dichloropro | 0.341 | 0.373 | 0.338 | 0.330 | 0.354 | 0.350 | 0.346 | 0.348 | 3.98 |
| 53) T 4-Methyl-2-pentanone | 0.405 | 0.443 | 0.423 | 0.435 | 0.483 | 0.480 | 0.474 | 0.449 | 6.78 |
| 54) T trans-1,3-Dichlorop | 0.341 | 0.367 | 0.322 | 0.306 | 0.315 | 0.308 | 0.307 | 0.323 | 6.97 |
| 55) T 1,1,2-Trichloroetha | 0.281 | 2.276 | 2.255 | 2.249 | 2.226 | 2.198 | 2.231 | 2.245 | 1.31 |
| 56) I Chlorobenzene-d5 (IS3 | 3.463 | 3.565 | 3.084 | 2.836 | 2.899 | 2.799 | 2.718 | 3.052 | 11.02 |
| 57) S Toluene-d8 (SS2) | 1.912 | 2.227 | 2.158 | 2.079 | 2.193 | 2.120 | 2.032 | 2.103 | 5.10 |
| 58) T Toluene | 0.768 | 0.914 | 0.816 | 0.790 | 0.839 | 0.817 | 0.826 | 0.824 | 5.59 |
| 59) T 2-Hexanone | 0.797 | 0.908 | 0.827 | 0.763 | 0.777 | 0.757 | 0.764 | 0.799 | 6.75 |
| 60) T Dibromochloromethan | | | | | | | | | |
| 61) T 1,2-Dibromoethane | | | | | | | | | |

15/22/08

1688

Method Path : J:\MS13\METHODS\
Method File : R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:20:46 2008
Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
25 =05220806.D 50 =05220807.D 100 =05220808.D

| Compound | 0.1 | 0.5 | 1.0 | 5.0 | 25 | 50 | 100 | Avg | %RSD |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 62) T Butyl Acetate | 1.835 | 2.349 | 2.145 | 2.075 | 2.250 | 2.180 | 2.107 | 2.135 | 7.54 |
| 63) T n-Octane | 0.690 | 0.724 | 0.697 | 0.630 | 0.668 | 0.658 | 0.658 | 0.675 | 4.61 |
| 64) T Tetrachloroethene | 1.085 | 1.019 | 0.880 | 0.821 | 0.845 | 0.823 | 0.850 | 0.903 | 11.64 |
| 65) T Chlorobenzene | 2.246 | 2.309 | 2.117 | 1.922 | 1.949 | 1.899 | 1.880 | 2.046 | 8.66 |
| 66) T Ethylbenzene | 3.745 | 3.906 | 3.547 | 3.348 | 3.482 | 3.344 | 3.125 | 3.500 | 7.51 |
| 67) T m- & p-Xylene | 2.410 | 2.681 | 2.348 | 2.213 | 2.355 | 2.268 | 2.110 | 2.341 | 7.71 |
| 68) T Bromoform | 0.579 | 0.613 | 0.562 | 0.598 | 0.655 | 0.639 | 0.648 | 0.613 | 5.82 |
| 69) T Styrene | 2.121 | 2.195 | 2.060 | 2.004 | 2.140 | 2.085 | 2.043 | 2.092 | 3.08 |
| 70) T o-Xylene | 2.664 | 2.842 | 2.526 | 2.396 | 2.503 | 2.421 | 2.337 | 2.527 | 6.91 |
| 71) T n-Nonane | 1.672 | 2.020 | 1.792 | 1.739 | 1.842 | 1.775 | 1.720 | 1.794 | 6.32 |
| 72) T 1,1,2,2-Tetrachloro | 0.868 | 1.052 | 1.008 | 1.065 | 1.132 | 1.118 | 1.129 | 1.053 | 8.89 |
| 73) S Bromofluorobenzene | 0.879 | 0.895 | 0.904 | 0.922 | 0.931 | 0.923 | 0.937 | 0.913 | 2.31 |
| 74) T Cumene | 3.579 | 3.802 | 3.406 | 3.191 | 3.337 | 3.227 | 3.014 | 3.365 | 7.78 |
| 75) T alpha-Pinene | 1.711 | 1.882 | 1.729 | 1.649 | 1.760 | 1.737 | 1.710 | 1.740 | 4.10 |
| 76) T n-Propylbenzene | 4.479 | 4.773 | 4.364 | 4.149 | 4.410 | 4.159 | 3.638 | 4.282 | 8.26 |
| 77) T 3-Ethyltoluene | 3.439 | 4.011 | 3.499 | 3.424 | 3.723 | 3.619 | 3.356 | 3.582 | 6.34 |
| 78) T 4-Ethyltoluene | 3.313 | 3.625 | 3.464 | 3.345 | 3.467 | 3.254 | 2.904 | 3.339 | 6.82 |
| 79) T 1,3,5-Trimethylbenz | 3.271 | 3.262 | 2.995 | 2.895 | 3.052 | 2.926 | 2.715 | 3.017 | 6.64 |
| 80) T alpha-Methylstyrene | 1.492 | 1.654 | 1.560 | 1.590 | 1.761 | 1.707 | 1.668 | 1.633 | 5.63 |
| 81) T 2-Ethyltoluene | 3.480 | 3.971 | 3.697 | 3.585 | 3.795 | 3.604 | 3.275 | 3.630 | 6.15 |
| 82) T 1,2,4-Trimethylbenz | 2.969 | 3.317 | 3.051 | 2.998 | 3.261 | 3.129 | 2.774 | 3.071 | 6.00 |
| 83) T n-Decane | 1.469 | 1.883 | 1.664 | 1.676 | 1.805 | 1.722 | 1.610 | 1.690 | 7.92 |
| 84) T Benzyl Chloride | 1.352 | 1.768 | 1.759 | 2.062 | 2.524 | 2.527 | 2.433 | 2.061 | 22.15 |
| 85) T 1,3-Dichlorobenzene | 1.803 | 2.130 | 1.917 | 1.862 | 1.975 | 1.911 | 1.843 | 1.920 | 5.64 |
| 86) T 1,4-Dichlorobenzene | 1.816 | 1.998 | 1.870 | 1.813 | 1.915 | 1.840 | 1.778 | 1.861 | 4.01 |
| 87) T sec-Butylbenzene | 3.801 | 4.526 | 3.960 | 3.887 | 4.095 | 3.871 | 3.337 | 3.925 | 9.05 |
| 88) T p-Isopropyltoluene | 2.977 | 3.482 | 3.289 | 3.207 | 3.536 | 3.341 | 2.786 | 3.231 | 8.33 |
| 89) T 1,2,3-Trimethylbenz | 2.738 | 3.261 | 2.991 | 2.972 | 3.228 | 3.108 | 2.737 | 3.005 | 7.06 |
| 90) T 1,2-Dichlorobenzene | 1.726 | 2.007 | 1.837 | 1.791 | 1.907 | 1.829 | 1.651 | 1.821 | 6.39 |
| 91) T d-Limonene | 1.100 | 1.225 | 1.189 | 1.192 | 1.343 | 1.306 | 1.210 | 1.224 | 6.56 |
| 92) T 1,2-Dibromo-3-Chlor | 0.385 | 0.514 | 0.509 | 0.578 | 0.658 | 0.651 | 0.661 | 0.565 | 18.20 |
| 93) T n-Undecane | 1.496 | 1.930 | 1.742 | 1.747 | 1.891 | 1.846 | 1.727 | 1.768 | 8.14 |

05/24/08
Page: 3

Method Path : J:\MS13\METHODS\
 Method File : R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:20:46 2008
 Response Via : Initial Calibration

Calibration Files
 0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
 25 =05220806.D 50 =05220807.D 100 =05220808.D

| Compound | 0.1 | 0.5 | 1.0 | 5.0 | 25 | 50 | 100 | Avg | %RSD |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 94) T 1,2,4-Trichlorobenz | 1.301 | 1.433 | 1.284 | 1.255 | 1.354 | 1.350 | 1.360 | 1.334 | 4.44 |
| 95) T Naphthalene | 3.935 | 4.205 | 4.040 | 3.994 | 4.350 | 4.182 | 3.650 | 4.051 | 5.59 |
| 96) T n-Dodecane | 1.445 | 1.924 | 1.703 | 1.694 | 1.896 | 1.875 | 1.775 | 1.759 | 9.45 |
| 97) T Hexachloro-1,3-buta | 0.850 | 0.960 | 0.856 | 0.844 | 0.884 | 0.894 | 0.928 | 0.888 | 4.87 |

(#) = Out of Range

05/22/08

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: **S20-05210809**
 20ng/L Std. ID: **S20-05210806**
 200ng/L Std. ID: **S20-05210804**

| Dilution Factors: | | | | | Working STD Conc.(ng/L): | ICAL Concentrations (Primary Source) | | | | | | |
|---------------------------|---------------------------|---------|--------|----------------|-----------------------------|--------------------------------------|-------|-------|------|-------|------|-------|
| 5 50 250 | | | | | | 4 | 20 | 20 | 20 | 200 | 200 | 200 |
| Source Std. | Primary Working Standards | | | Injection (L): | | 0.025 | 0.025 | 0.050 | 0.25 | 0.125 | 0.25 | 0.50 |
| Compounds | mg/m ³ | 200ng/L | 20ng/L | 4ng/L | ICAL Points: | 0.1ng | 0.5ng | 1ng | 5ng | 25ng | 50ng | 100ng |
| Propene | 1.08 | 216 | 21.6 | 4.32 | | 0.108 | 0.540 | 1.08 | 5.40 | 27.0 | 54.0 | 108 |
| Dichlorodifluoromethane | 1.04 | 208 | 20.8 | 4.16 | | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 |
| Chloromethane | 1.02 | 204 | 20.4 | 4.08 | | 0.102 | 0.510 | 1.02 | 5.10 | 25.5 | 51.0 | 102 |
| Freon-114 | 1.07 | 214 | 21.4 | 4.28 | | 0.107 | 0.535 | 1.07 | 5.35 | 26.8 | 53.5 | 107 |
| Vinyl Chloride | 1.03 | 206 | 20.6 | 4.12 | | 0.103 | 0.515 | 1.03 | 5.15 | 25.8 | 51.5 | 103 |
| 1,3-Butadiene | 1.09 | 218 | 21.8 | 4.36 | | 0.109 | 0.545 | 1.09 | 5.45 | 27.3 | 54.5 | 109 |
| Bromomethane | 1.05 | 210 | 21.0 | 4.20 | | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 |
| Chloroethane | 1.05 | 210 | 21.0 | 4.20 | | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 |
| Ethanol | 0.91 | 182 | 18.2 | 3.64 | | 0.091 | 0.455 | 0.910 | 4.55 | 22.8 | 45.5 | 91.0 |
| Acetonitrile | 0.980 | 196 | 19.6 | 3.92 | | 0.098 | 0.490 | 0.980 | 4.90 | 24.5 | 49.0 | 98.0 |
| Acrolein | 0.960 | 192 | 19.2 | 3.84 | | 0.096 | 0.480 | 0.960 | 4.80 | 24.0 | 48.0 | 96.0 |
| Acetone | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| Trichlorofluoromethane | 1.04 | 208 | 20.8 | 4.16 | | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 |
| Isopropanol | 1.03 | 206 | 20.6 | 4.12 | | 0.103 | 0.515 | 1.03 | 5.15 | 25.8 | 51.5 | 103 |
| Acrylonitrile | 1.010 | 202 | 20.2 | 4.04 | | 0.101 | 0.505 | 1.01 | 5.05 | 25.3 | 50.5 | 101 |
| 1,1-Dichloroethene | 1.13 | 226 | 22.6 | 4.52 | | 0.113 | 0.565 | 1.13 | 5.65 | 28.3 | 56.5 | 113 |
| tert-Butanol | 1.020 | 204 | 20.4 | 4.08 | | 0.102 | 0.510 | 1.02 | 5.10 | 25.5 | 51.0 | 102 |
| Methylene Chloride | 1.12 | 224 | 22.4 | 4.48 | | 0.112 | 0.560 | 1.12 | 5.60 | 28.0 | 56.0 | 112 |
| Allyl Chloride | 1.05 | 210 | 21.0 | 4.20 | | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 |
| Trichlorotrifluoroethane | 1.14 | 228 | 22.8 | 4.56 | | 0.114 | 0.570 | 1.14 | 5.70 | 28.5 | 57.0 | 114 |
| Carbon Disulfide | 1.00 | 200 | 20.0 | 4.00 | | 0.100 | 0.500 | 1.00 | 5.00 | 25.0 | 50.0 | 100 |
| trans-1,2-Dichloroethene | 1.10 | 220 | 22.0 | 4.40 | | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 |
| 1,1-Dichloroethane | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| Methyl tert-Butyl Ether | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| Vinyl Acetate | 0.98 | 196 | 19.6 | 3.92 | | 0.098 | 0.490 | 0.980 | 4.90 | 24.5 | 49.0 | 98.0 |
| 2-Butanone | 1.12 | 224 | 22.4 | 4.48 | | 0.112 | 0.560 | 1.12 | 5.60 | 28.0 | 56.0 | 112 |
| cis-1,2-Dichloroethene | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| Diisopropyl Ether | 1.03 | 206 | 20.6 | 4.12 | | 0.103 | 0.515 | 1.03 | 5.15 | 25.8 | 51.5 | 103 |
| Ethyl Acetate | 1.27 | 254 | 25.4 | 5.08 | | 0.127 | 0.635 | 1.27 | 6.35 | 31.8 | 63.5 | 127 |
| n-Hexane | 1.12 | 224 | 22.4 | 4.48 | | 0.112 | 0.560 | 1.12 | 5.60 | 28.0 | 56.0 | 112 |
| Chloroform | 1.29 | 258 | 25.8 | 5.16 | | 0.129 | 0.645 | 1.29 | 6.45 | 32.3 | 64.5 | 129 |
| Tetrahydrofuran | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| Ethyl tert-Butyl Ether | 1.05 | 210 | 21.0 | 4.20 | | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 |
| 1,2-Dichloroethane | 1.10 | 220 | 22.0 | 4.40 | | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 |
| 1,1,1-Trichloroethane | 1.10 | 220 | 22.0 | 4.40 | | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 |
| Isopropyl Acetate | 1.010 | 202 | 20.2 | 4.04 | | 0.101 | 0.505 | 1.01 | 5.05 | 25.3 | 50.5 | 101 |
| 1-Butanol | 0.910 | 182 | 18.2 | 3.64 | | 0.091 | 0.455 | 0.910 | 4.55 | 22.8 | 45.5 | 91.0 |
| Benzene | 1.10 | 220 | 22.0 | 4.40 | | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 |
| Carbon Tetrachloride | 1.07 | 214 | 21.4 | 4.28 | | 0.107 | 0.535 | 1.07 | 5.35 | 26.8 | 53.5 | 107 |
| Cyclohexane | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| tert-Amyl Methyl Ether | 1.04 | 208 | 20.8 | 4.16 | | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 |
| 1,2-Dichloropropane | 1.09 | 218 | 21.8 | 4.36 | | 0.109 | 0.545 | 1.09 | 5.45 | 27.3 | 54.5 | 109 |
| Bromodichloromethane | 1.15 | 230 | 23.0 | 4.60 | | 0.115 | 0.575 | 1.15 | 5.75 | 28.8 | 57.5 | 115 |
| Trichloroethene | 1.14 | 228 | 22.8 | 4.56 | | 0.114 | 0.570 | 1.14 | 5.70 | 28.5 | 57.0 | 114 |
| 1,4-Dioxane | 1.15 | 230 | 23.0 | 4.60 | | 0.115 | 0.575 | 1.15 | 5.75 | 28.8 | 57.5 | 115 |
| Isooctane | 1.04 | 208 | 20.8 | 4.16 | | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 |
| Methyl Methacrylate | 1.06 | 212 | 21.2 | 4.24 | | 0.106 | 0.530 | 1.06 | 5.30 | 26.5 | 53.0 | 106 |
| n-Heptane | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| cis-1,3-Dichloropropene | 1.04 | 208 | 20.8 | 4.16 | | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 |
| 4-Methyl-2-pentanone | 1.05 | 210 | 21.0 | 4.20 | | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 |
| trans-1,3-Dichloropropene | 1.16 | 232 | 23.2 | 4.64 | | 0.116 | 0.580 | 1.16 | 5.80 | 29.0 | 58.0 | 116 |
| 1,1,2-Trichloroethane | 1.09 | 218 | 21.8 | 4.36 | | 0.109 | 0.545 | 1.09 | 5.45 | 27.3 | 54.5 | 109 |
| Toluene | 1.10 | 220 | 22.0 | 4.40 | | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 |
| 2-Hexanone | 1.02 | 204 | 20.4 | 4.08 | | 0.102 | 0.510 | 1.02 | 5.10 | 25.5 | 51.0 | 102 |
| Dibromochloromethane | 1.11 | 222 | 22.2 | 4.44 | | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 |
| 1,2-Dibromoethane | 1.09 | 218 | 21.8 | 4.36 | | 0.109 | 0.545 | 1.09 | 5.45 | 27.3 | 54.5 | 109 |
| n-Butyl Acetate | 1.05 | 210 | 21.0 | 4.20 | | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 |
| n-Octane | 1.04 | 208 | 20.8 | 4.16 | | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 |
| Tetrachloroethene | 1.09 | 218 | 21.8 | 4.36 | | 0.109 | 0.545 | 1.09 | 5.45 | 27.3 | 54.5 | 109 |
| Chlorobenzene | 1.10 | 220 | 22.0 | 4.40 | | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 |
| Ethylbenzene | 1.08 | 216 | 21.6 | 4.32 | | 0.108 | 0.540 | 1.08 | 5.40 | 27.0 | 54.0 | 108 |
| m-&p-Xylene | 2.58 | 516 | 51.6 | 10.32 | | 0.258 | 1.29 | 2.58 | 12.9 | 64.5 | 129 | 258 |

8/05/22/08

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-05210809
 20ng/L Std. ID: S20-05210806
 200ng/L Std. ID: S20-05210804

| Compounds | Source Std. mg/m ³ | Dilution Factors: | | | Working STD Conc.(ng/L): Injection (L): ICAL Points: | ICAL Concentrations (Primary Source) | | | | | | |
|-----------------------------|----------------------------------|-------------------|--------|-------|---|--------------------------------------|-------|------|------|-------|------|------|
| | | 5 | 50 | 250 | | 4 | 20 | 20 | 20 | 200 | 200 | 200 |
| | | 200ng/L | 20ng/L | 4ng/L | | 0.025 | 0.025 | 0.05 | 0.25 | 0.125 | 0.25 | 0.50 |
| Bromoform | 1.31 | 262 | 26.2 | 5.24 | 0.131 | 0.655 | 1.31 | 6.55 | 32.8 | 65.5 | 131 | |
| Styrene | 1.08 | 216 | 21.6 | 4.32 | 0.108 | 0.540 | 1.08 | 5.40 | 27.0 | 54.0 | 108 | |
| o-Xylene | 1.22 | 244 | 24.4 | 4.88 | 0.122 | 0.610 | 1.22 | 6.10 | 30.5 | 61.0 | 122 | |
| n-Nonane | 1.03 | 206 | 20.6 | 4.12 | 0.103 | 0.515 | 1.03 | 5.15 | 25.8 | 51.5 | 103 | |
| 1,1,2,2-Tetrachloroethane | 1.23 | 246 | 24.6 | 4.92 | 0.123 | 0.615 | 1.23 | 6.15 | 30.8 | 61.5 | 123 | |
| Cumene | 1.08 | 216 | 21.6 | 4.32 | 0.108 | 0.540 | 1.08 | 5.40 | 27.0 | 54.0 | 108 | |
| alpha-Pinene | 1.06 | 212 | 21.2 | 4.24 | 0.106 | 0.530 | 1.06 | 5.30 | 26.5 | 53.0 | 106 | |
| n-Propylbenzene | 1.05 | 210 | 21.0 | 4.20 | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 | |
| 3-Ethyltoluene | 1.02 | 204 | 20.4 | 4.08 | 0.102 | 0.510 | 1.02 | 5.10 | 25.5 | 51.0 | 102 | |
| 4-Ethyltoluene | 1.11 | 222 | 22.2 | 4.44 | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 | |
| 1,3,5-Trimethylbenzene | 1.08 | 216 | 21.6 | 4.32 | 0.108 | 0.540 | 1.08 | 5.40 | 27.0 | 54.0 | 108 | |
| alpha-Methylstyrene | 1.02 | 204 | 20.4 | 4.08 | 0.102 | 0.510 | 1.02 | 5.10 | 25.5 | 51.0 | 102 | |
| 2-Ethyltoluene | 0.990 | 198 | 19.8 | 3.96 | 0.099 | 0.495 | 0.990 | 4.95 | 24.8 | 49.5 | 99.0 | |
| 1,2,4-Trimethylbenzene | 1.10 | 220 | 22.0 | 4.40 | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 | |
| n-Decane | 1.04 | 208 | 20.8 | 4.16 | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 | |
| Benzyl Chloride | 1.07 | 214 | 21.4 | 4.28 | 0.107 | 0.535 | 1.07 | 5.35 | 26.8 | 53.5 | 107 | |
| 1,3-Dichlorobenzene | 1.06 | 212 | 21.2 | 4.24 | 0.106 | 0.530 | 1.06 | 5.30 | 26.5 | 53.0 | 106 | |
| 1,4-Dichlorobenzene | 1.10 | 220 | 22.0 | 4.40 | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 | |
| sec-Butylbenzene | 1.07 | 214 | 21.4 | 4.28 | 0.107 | 0.535 | 1.07 | 5.35 | 26.8 | 53.5 | 107 | |
| p-Isopropyltoluene | 1.180 | 236 | 23.6 | 4.72 | 0.118 | 0.590 | 1.18 | 5.90 | 29.5 | 59.0 | 118 | |
| 1,2,3-Trimethylbenzene | 1.10 | 220 | 22.0 | 4.40 | 0.110 | 0.550 | 1.10 | 5.50 | 27.5 | 55.0 | 110 | |
| 1,2-Dichlorobenzene | 1.08 | 216 | 21.6 | 4.32 | 0.108 | 0.540 | 1.08 | 5.40 | 27.0 | 54.0 | 108 | |
| d-Limonene | 1.06 | 212 | 21.2 | 4.24 | 0.106 | 0.530 | 1.06 | 5.30 | 26.5 | 53.0 | 106 | |
| 1,2-Dibromo-3-chloropropane | 1.04 | 208 | 20.8 | 4.16 | 0.104 | 0.520 | 1.04 | 5.20 | 26.0 | 52.0 | 104 | |
| n-Undecane | 1.05 | 210 | 21.0 | 4.20 | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 | |
| 1,2,4-Trichlorobenzene | 1.12 | 224 | 22.4 | 4.48 | 0.112 | 0.560 | 1.12 | 5.60 | 28.0 | 56.0 | 112 | |
| Naphthalene | 1.05 | 210 | 21.0 | 4.20 | 0.105 | 0.525 | 1.05 | 5.25 | 26.3 | 52.5 | 105 | |
| n-Dodecane | 1.06 | 212 | 21.2 | 4.24 | 0.106 | 0.530 | 1.06 | 5.30 | 26.5 | 53.0 | 106 | |
| Hexachloro-1,3-butadiene | 1.11 | 222 | 22.2 | 4.44 | 0.111 | 0.555 | 1.11 | 5.55 | 27.8 | 55.5 | 111 | |

*Enter Information in the Solid Shaded Areas ONLY.

Post 12/08

Method Path : J:\MS13\METHODS\
Method File : R13052208.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Thu May 22 11:20:46 2008
Response Via : Initial Calibration

| # | ID | Conc | ISTD Conc | Path\File |
|---|-----|------|--------------|------------------------------------|
| 1 | 0.1 | 0 | 25 | J:\MS13\DATA\2008_05\22\05220802.D |
| 2 | 0.5 | 1 | 25 | J:\MS13\DATA\2008_05\22\05220803.D |
| 3 | 1.0 | 1 | 25 | J:\MS13\DATA\2008_05\22\05220804.D |
| 4 | 5.0 | 5 | 25 | J:\MS13\DATA\2008_05\22\05220805.D |
| 5 | 25 | 27 | 25 | J:\MS13\DATA\2008_05\22\05220806.D |
| 6 | 50 | 54 | 25 | J:\MS13\DATA\2008_05\22\05220807.D |
| 7 | 100 | 108 | 25 | J:\MS13\DATA\2008_05\22\05220808.D |

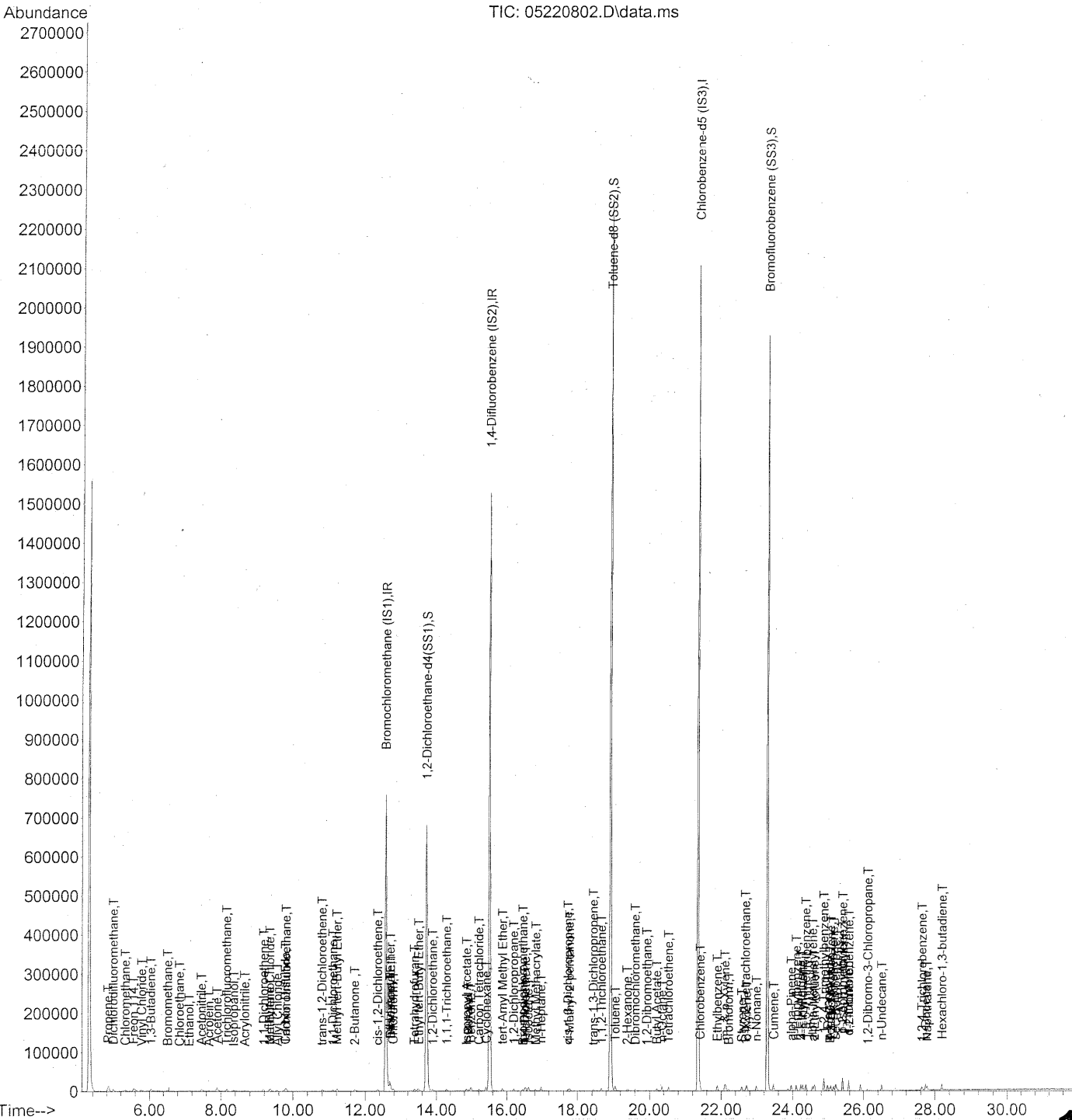
| # | ID | Update Time | Quant Time | Acquisition Time |
|---|-----|-------------------|-------------------|---------------------|
| 1 | 0.1 | May 22 11:12 2008 | May 22 10:30 2008 | 22 May 2008 3:56 am |
| 2 | 0.5 | May 22 11:12 2008 | May 22 11:00 2008 | 22 May 2008 4:37 am |
| 3 | 1.0 | May 22 11:13 2008 | May 22 11:05 2008 | 22 May 2008 5:18 am |
| 4 | 5.0 | May 22 11:13 2008 | May 22 11:07 2008 | 22 May 2008 5:58 am |
| 5 | 25 | May 22 11:12 2008 | May 22 11:09 2008 | 22 May 2008 6:39 am |
| 6 | 50 | May 22 11:18 2008 | May 22 11:18 2008 | 22 May 2008 7:20 am |
| 7 | 100 | May 22 11:20 2008 | May 22 11:19 2008 | 22 May 2008 8:01 am |

R13052208.M Thu May 22 11:36:36 2008

5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220802.D
 Acq On : 22 May 2008 3:56 am
 Operator : RTB
 Sample : 0.1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210809
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 391084 | 25.000 | ng | -0.03 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1729052 | 25.000 | ng | -0.02 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 807664 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 701754 | 22.375 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 89.48% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1842585 | 25.453 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 101.80% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 709723 | 28.489 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 113.96% | ✓ |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|-------|-------|----|--------|
| 2) Propene | 4.83 | 42 | 5061 | 0.156 | ng | # 48 |
| 3) Dichlorodifluoromethane | 4.99 | 85 | 7164 | 0.121 | ng | 95 |
| 4) Chloromethane | 5.32 | 50 | 4719 | 0.096 | ng | 98 |
| 5) Freon 114 | 5.55 | 135 | 3603 | 0.125 | ng | 90 |
| 6) Vinyl Chloride | 5.78 | 62 | 4379 | 0.095 | ng | 98 |
| 7) 1,3-Butadiene | 6.04 | 54 | 2828 | 0.080 | ng | # 64 |
| 8) Bromomethane | 6.52 | 94 | 2671 | 0.121 | ng | 91 |
| 9) Chloroethane | 6.85 | 64 | 2013 | 0.106 | ng | 89 |
| 10) Ethanol | 7.13 | 45 | 2327 | 0.105 | ng | 69 |
| 11) Acetonitrile | 7.46 | 41 | 9386m | 0.162 | ng | |
| 12) Acrolein | 7.67 | 56 | 1454 | 0.093 | ng | 88 |
| 13) Acetone | 7.89 | 58 | 5705 | 0.264 | ng | 88 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 5976 | 0.129 | ng | 93 |
| 15) Isopropanol | 8.36 | 45 | 9307m | 0.127 | ng | |
| 16) Acrylonitrile | 8.66 | 53 | 3038m | 0.090 | ng | |
| 17) 1,1-Dichloroethene | 9.18 | 96 | 2673 | 0.124 | ng | # 83 |
| 18) tert-Butanol | 9.35 | 59 | 6738m | 0.111 | ng | |
| 19) Methylene Chloride | 9.36 | 84 | 3346 | 0.135 | ng | 94 |
| 20) Allyl Chloride | 9.56 | 41 | 2408 | 0.072 | ng | # 62 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 3176m | 0.160 | ng | |
| 22) Carbon Disulfide | 9.78 | 76 | 11562 | 0.125 | ng | 99 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 4305 | 0.114 | ng | 83 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 4824 | 0.110 | ng | 79 |
| 25) Methyl tert-Butyl Ether | 11.21 | 73 | 8652 | 0.120 | ng | 79 |
| 26) Vinyl Acetate | 0.00 | 86 | 0 | N.D. | | |
| 27) 2-Butanone | 11.71 | 72 | 1992 | 0.131 | ng | 95 |
| 28) cis-1,2-Dichloroethene | 12.34 | 61 | 4126 | 0.116 | ng | 75 |
| 29) Diisopropyl Ether | 12.70 | 87 | 2307 | 0.116 | ng | # 69 |
| 30) Ethyl Acetate | 12.71 | 61 | 986m | 0.104 | ng | |
| 31) n-Hexane | 12.70 | 57 | 5268 | 0.107 | ng | 99 |

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Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220802.D
 Acq On : 22 May 2008 3:56 am
 Operator : RTB
 Sample : 0.1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210809
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|-------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 5431 | 0.149 | ng | 92 |
| 34) Tetrahydrofuran | 13.39 | 72 | 1773 | 0.117 | ng # | 84 |
| 35) Ethyl tert-Butyl Ether | 13.50 | 87 | 2951 | 0.113 | ng # | 71 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 4343 | 0.120 | ng | 90 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 4950 | 0.137 | ng | 88 |
| 39) Isopropyl Acetate | 14.86 | 61 | 1308 | 0.083 | ng # | 10 |
| 40) 1-Butanol | 14.91 | 56 | 1741 | 0.074 | ng | 96 |
| 41) Benzene | 14.98 | 78 | 11869 | 0.129 | ng | 95 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 3678 | 0.121 | ng | 99 |
| 43) Cyclohexane | 15.42 | 84 | 4351 | 0.128 | ng # | 76 |
| 44) tert-Amyl Methyl Ether | 15.88 | 73 | 7209 | 0.110 | ng | 95 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 2736 | 0.104 | ng | 97 |
| 46) Bromodichloromethane | 16.46 | 83 | 3490 | 0.112 | ng | 89 |
| 47) Trichloroethene | 16.53 | 130 | 4177 | 0.185 | ng | 94 |
| 48) 1,4-Dioxane | 16.51 | 88 | 2194m | 0.135 | ng | |
| 49) Isooctane | 16.61 | 57 | 12078 | 0.111 | ng | 80 |
| 50) Methyl Methacrylate | 16.82 | 100 | 897m | 0.108 | ng | |
| 51) n-Heptane | 16.98 | 71 | 2634 | 0.104 | ng # | 82 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 3506 | 0.098 | ng | 91 |
| 53) 4-Methyl-2-pentanone | 17.78 | 58 | 2473 | 0.099 | ng | 88 |
| 54) trans-1,3-Dichloropropene | 18.44 | 75 | 3250 | 0.105 | ng | 90 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 2567 | 0.116 | ng | 87 |
| 58) Toluene | 19.06 | 91 | 12306 | 0.135 | ng | 98 |
| 59) 2-Hexanone | 19.38 | 43 | 6301 | 0.093 | ng | 79 |
| 60) Dibromochloromethane | 19.61 | 129 | 2754 | 0.126 | ng | 80 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 2806 | 0.131 | ng | 92 |
| 62) Butyl Acetate | 20.20 | 43 | 6226 | 0.092 | ng | 86 |
| 63) n-Octane | 20.35 | 57 | 2319 | 0.109 | ng | 83 |
| 64) Tetrachloroethene | 20.53 | 166 | 3819 | 0.168 | ng | 82 |
| 65) Chlorobenzene | 21.41 | 112 | 7983 | 0.142 | ng | 95 |
| 66) Ethylbenzene | 21.89 | 91 | 13068 | 0.129 | ng | 92 |
| 67) m- & p-Xylene | 22.10 | 91 | 20087 | 0.296 | ng | 91 |
| 68) Bromoform | 22.21 | 173 | 2452 | 0.163 | ng | 90 |
| 69) Styrene | 22.58 | 104 | 7400 | 0.126 | ng | 96 |
| 70) o-Xylene | 22.71 | 91 | 10499 | 0.144 | ng | 85 |
| 71) n-Nonane | 22.98 | 43 | 5563 | 0.095 | ng | 90 |
| 72) 1,1,2,2-Tetrachloroethane | 22.68 | 83 | 3449 | 0.099 | ng | 85 |
| 74) Cumene | 23.47 | 105 | 12486 | 0.135 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 5861 | 0.119 | ng | 76 |
| 76) n-Propylbenzene | 24.10 | 91 | 15192 | 0.122 | ng | 97 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 11331 | 0.112 | ng | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 11881 | 0.128 | ng | 98 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 11413 | 0.138 | ng | 96 |

1696

Handwritten signature
 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

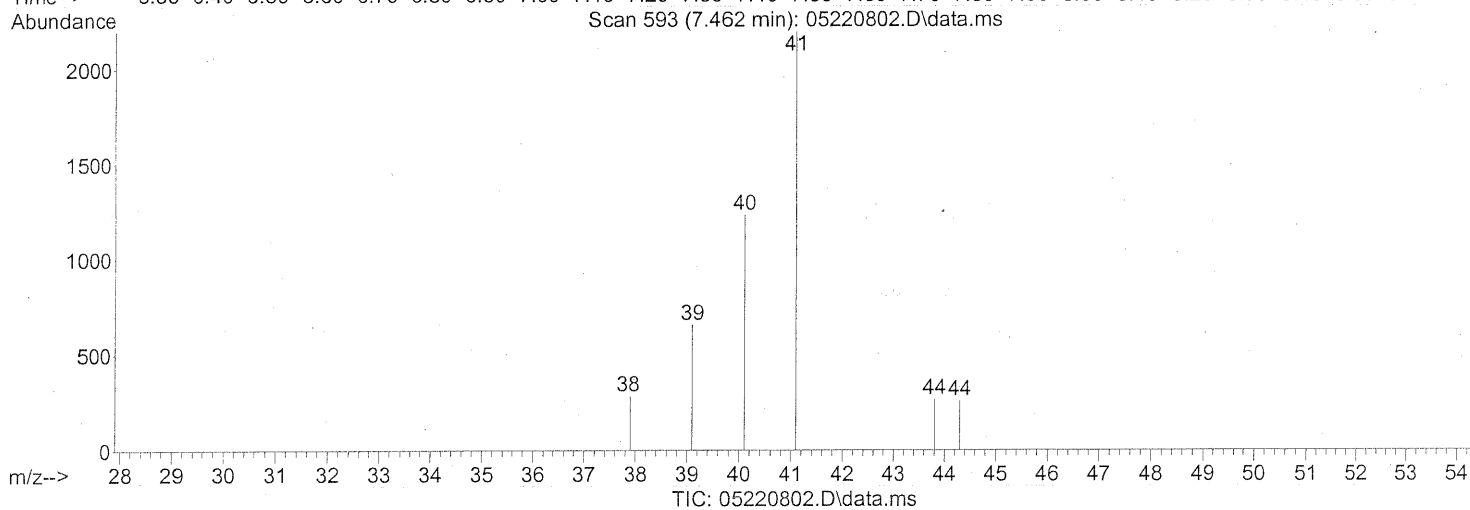
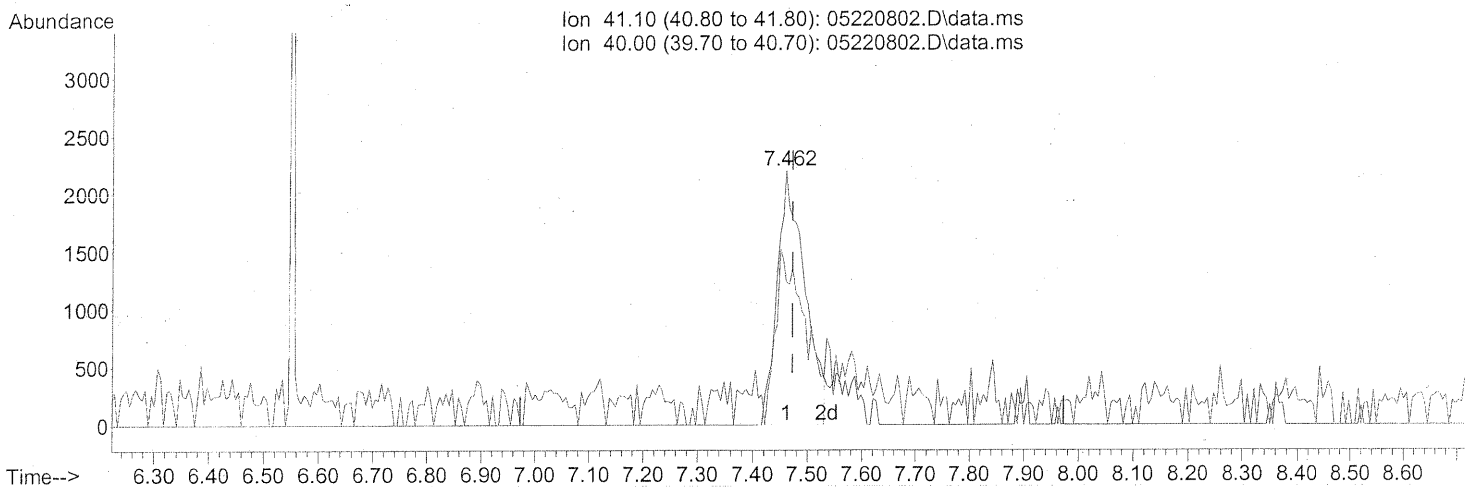
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 4915 | 0.112 | ng | 97 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 11131 | 0.110 | ng | 87 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 10550 | 0.113 | ng | 98 |
| 83) n-Decane | 24.98 | 57 | 4936 | 0.096 | ng | 78 |
| 84) Benzyl Chloride | 25.05 | 91 | 4673 | 0.073 | ng | 85 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 6174 | 0.122 | ng | 98 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 6453 | 0.133 | ng | 98 |
| 87) sec-Butylbenzene | 25.21 | 105 | 13141 | 0.120 | ng | 99 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 11350 | 0.119 | ng | 89 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 9730 | 0.106 | ng | 99 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 6021 | 0.116 | ng | 97 |
| 91) d-Limonene | 25.58 | 68 | 3768 | 0.089 | ng | 86 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 1294 | 0.094 | ng # | 79 |
| 93) n-Undecane | 26.50 | 57 | 5074 | 0.094 | ng | 82 |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 4707 | 0.147 | ng | 98 |
| 95) Naphthalene | 27.78 | 128 | 13348 | 0.129 | ng | 90 |
| 96) n-Dodecane | 27.74 | 57 | 4947 | 0.090 | ng | 78 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 3048 | 0.147 | ng | 89 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Handwritten signature
5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(11) Acetonitrile (T)

7.462min (-0.011) 0.13ng

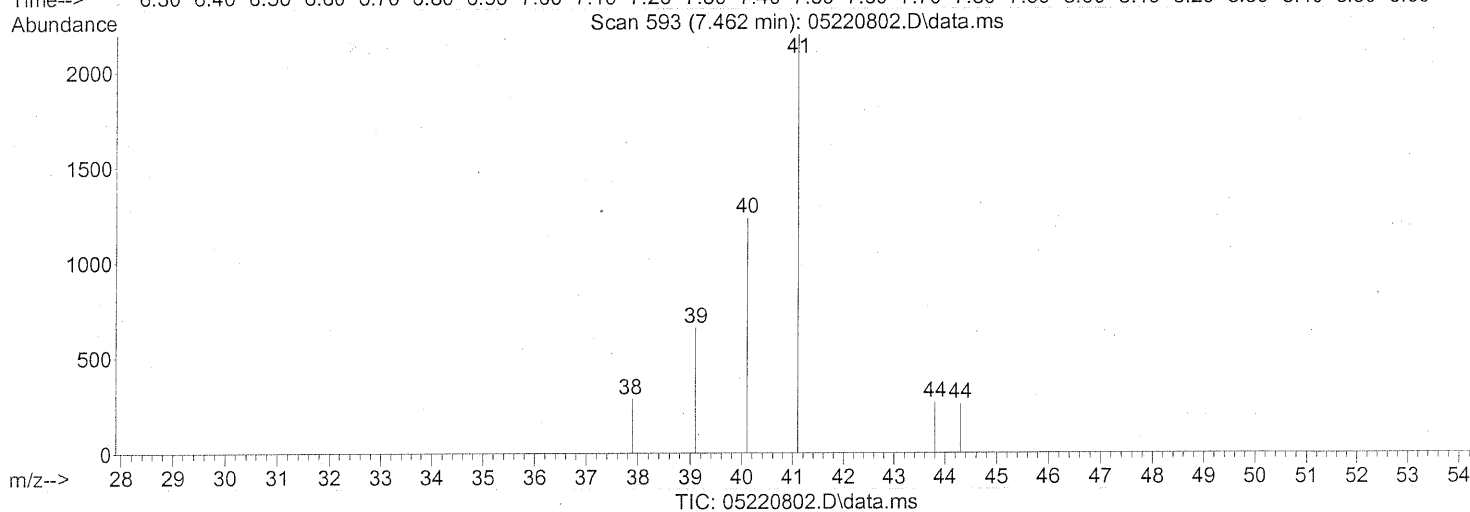
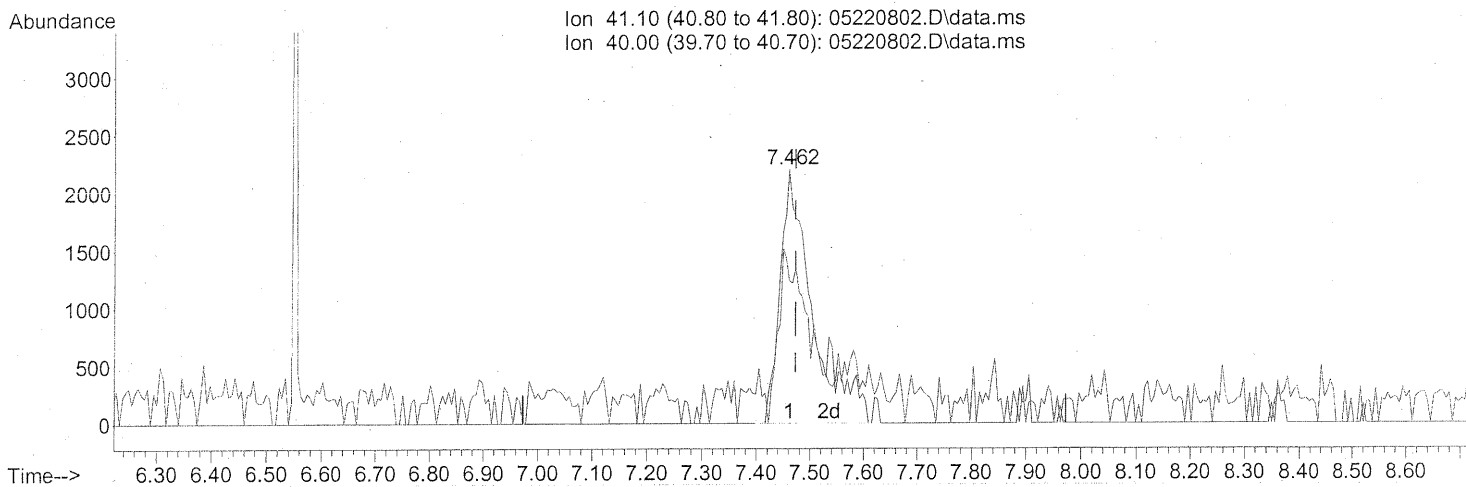
response 7728

TAILING

| Ion | Exp% | Act% |
|-------|-------|--------|
| 41.10 | 100 | 100 |
| 40.00 | 51.40 | 76.95# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



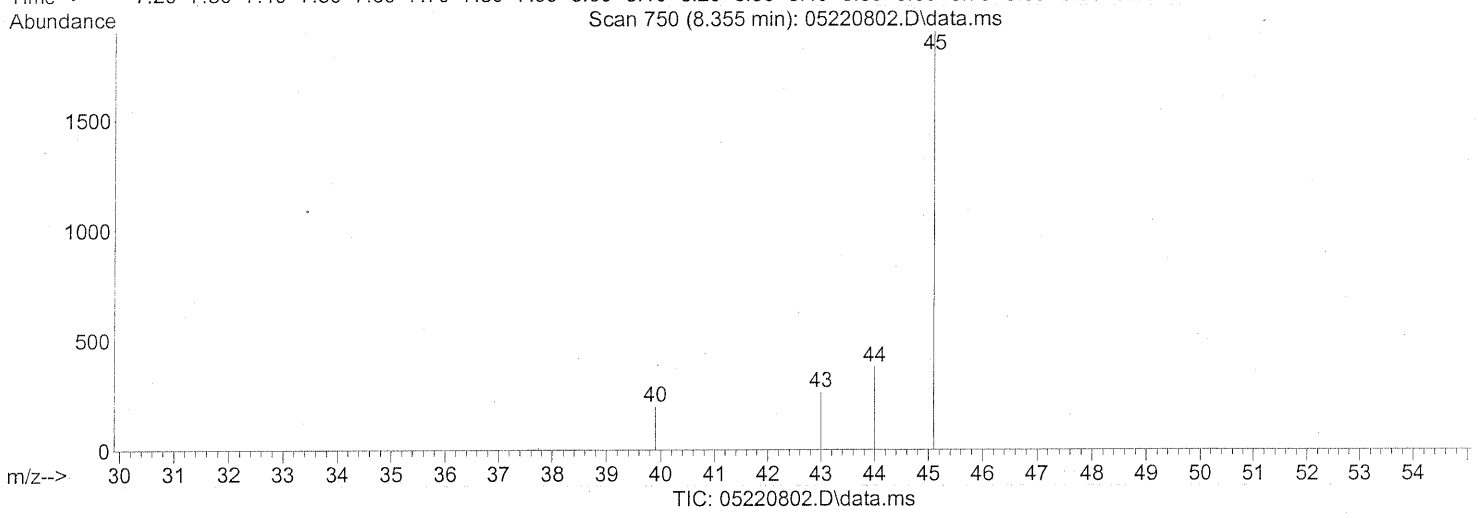
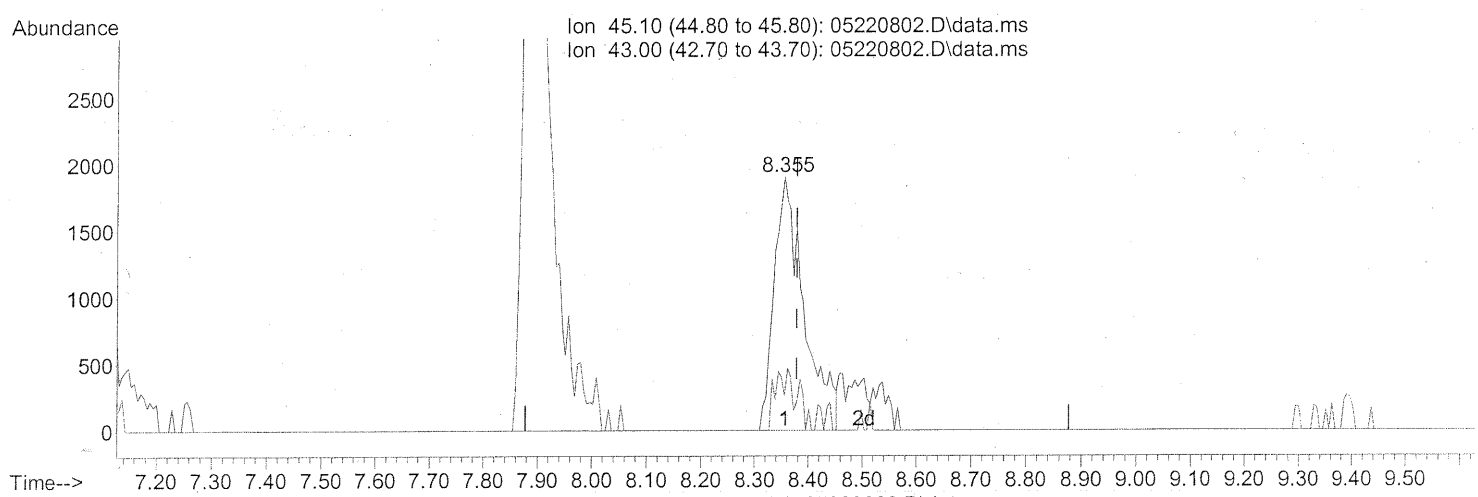
(11) Acetonitrile (T)
7.462min (-0.011) 0.16ng m
response 9386

| Ion | Exp% | Act% |
|-------|-------|-------|
| 41.10 | 100 | 100 |
| 40.00 | 51.40 | 63.36 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

ADDED TAILING
R 5/22/08
Tom 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



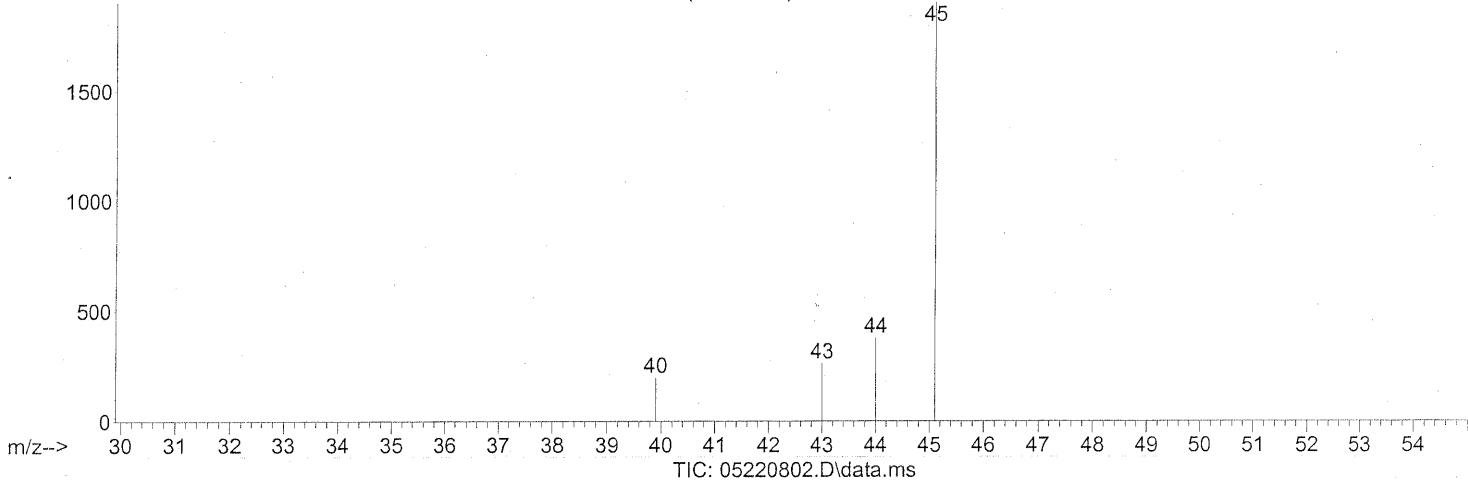
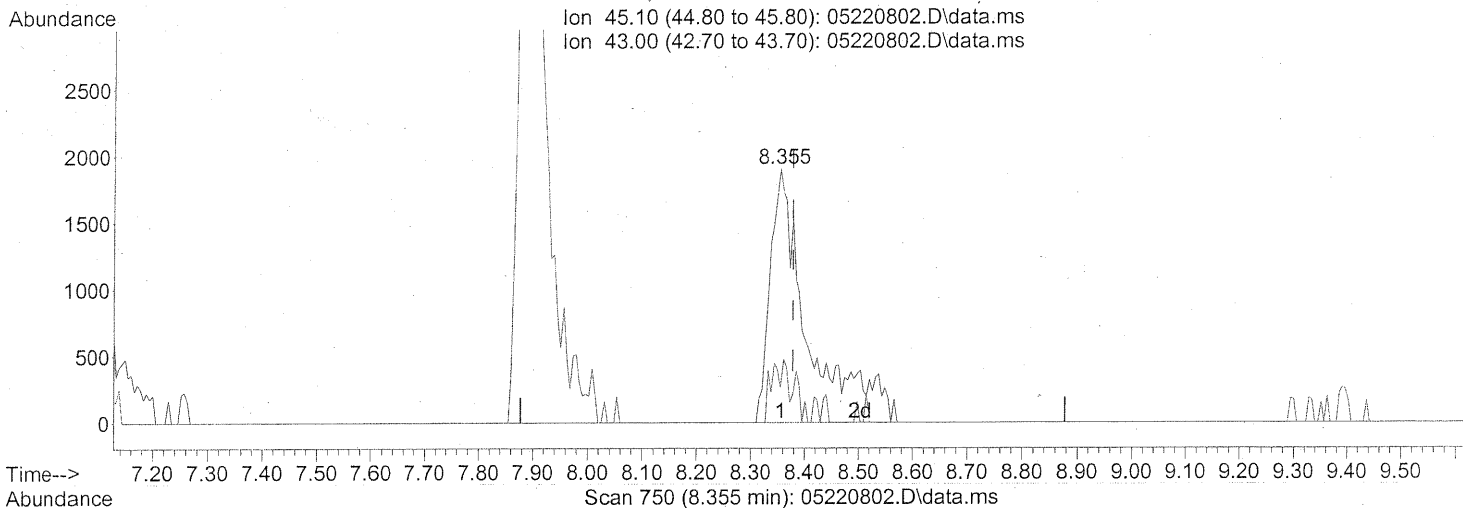
(15) Isopropanol (T)
8.355min (-0.023) 0.10ng
response 7356

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 12.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

TAILING

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.355min (-0.023) 0.13ng m

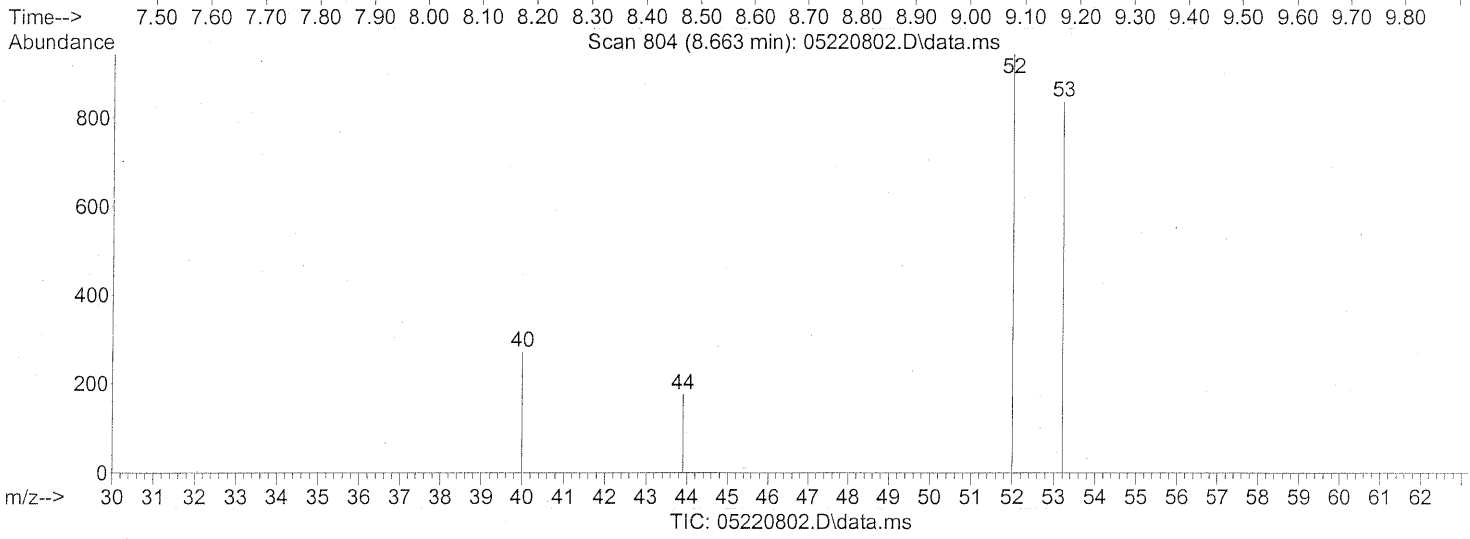
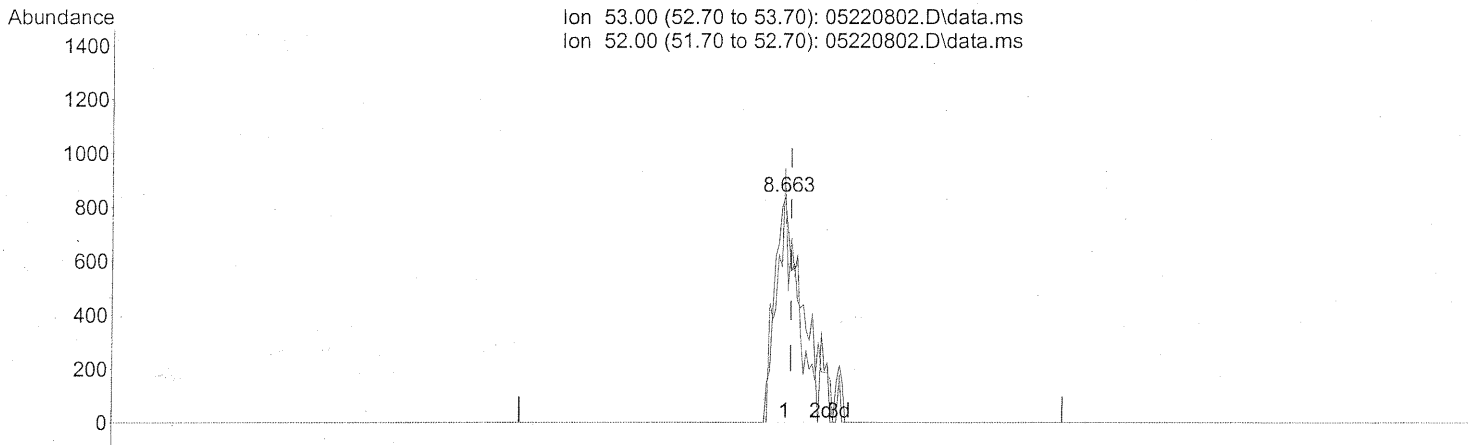
response 9307

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 10.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

ADDED TAILING
8/05/22/08
Em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.663min (-0.011) 0.08ng

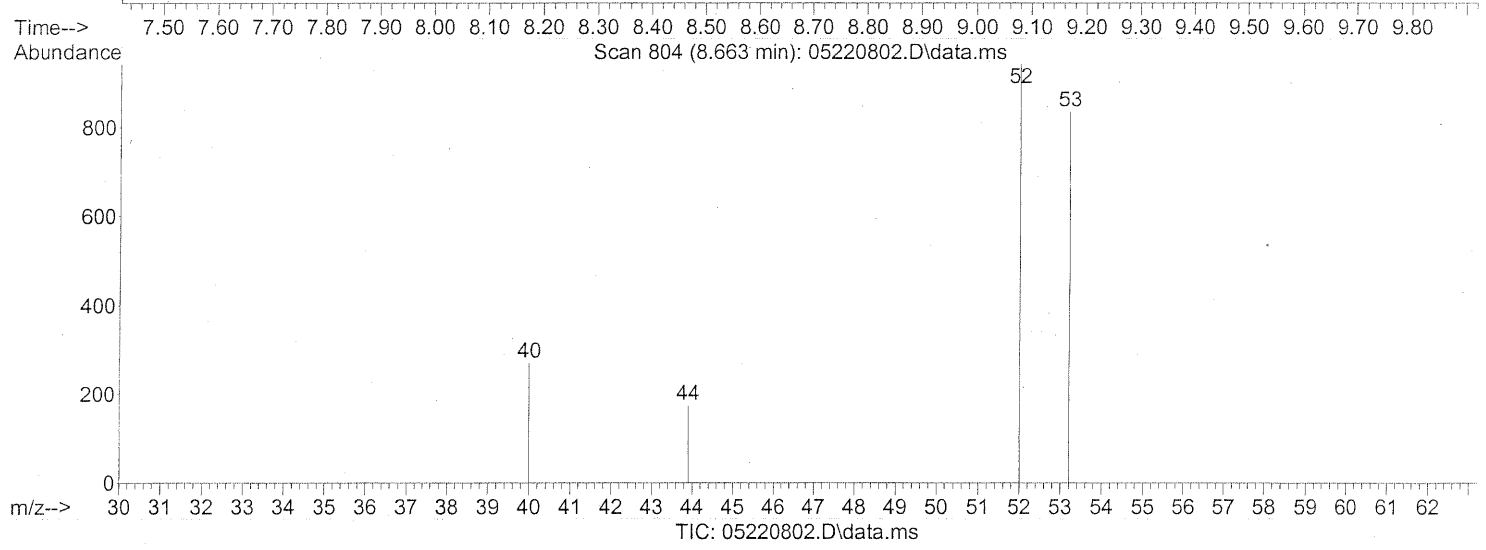
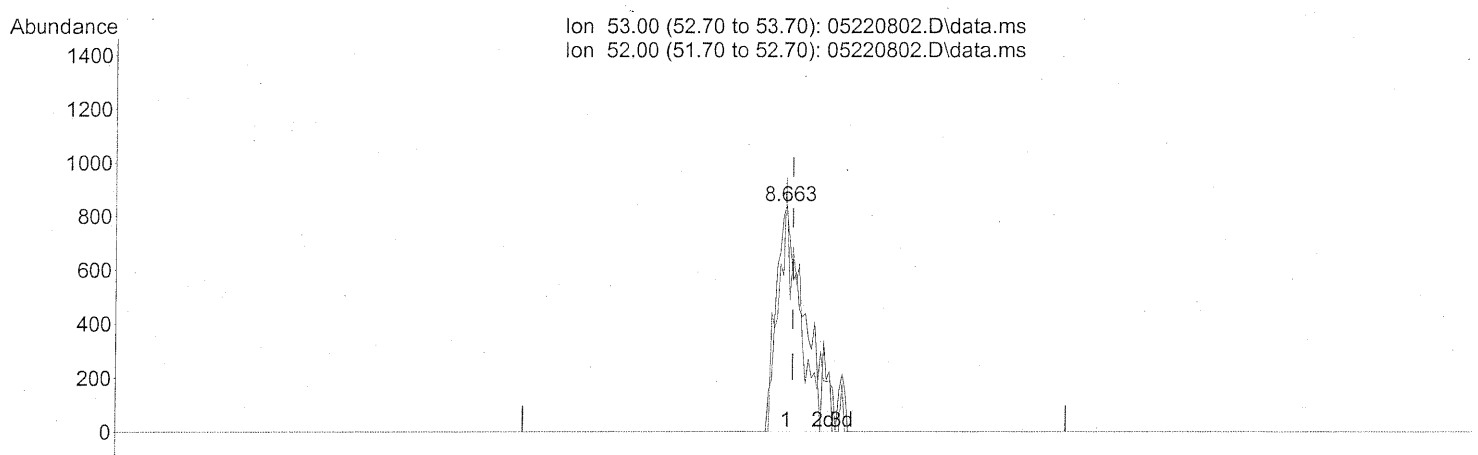
response 2779

TAILING

| Ion | Exp% | Act% |
|-------|-------|-------|
| 53.00 | 100 | 100 |
| 52.00 | 82.50 | 87.08 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



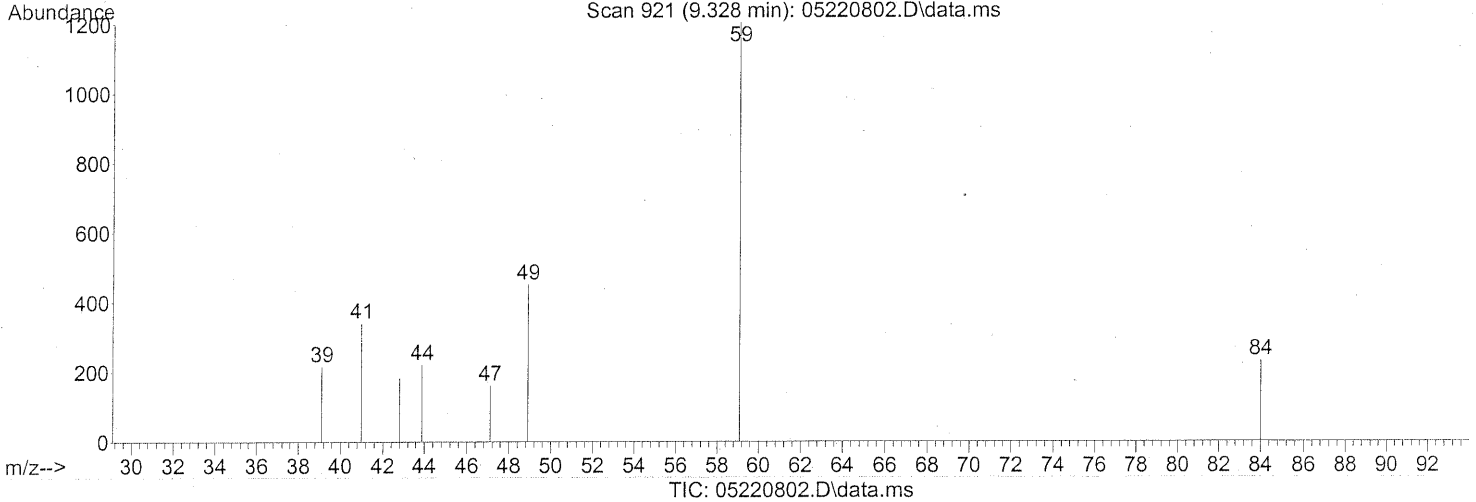
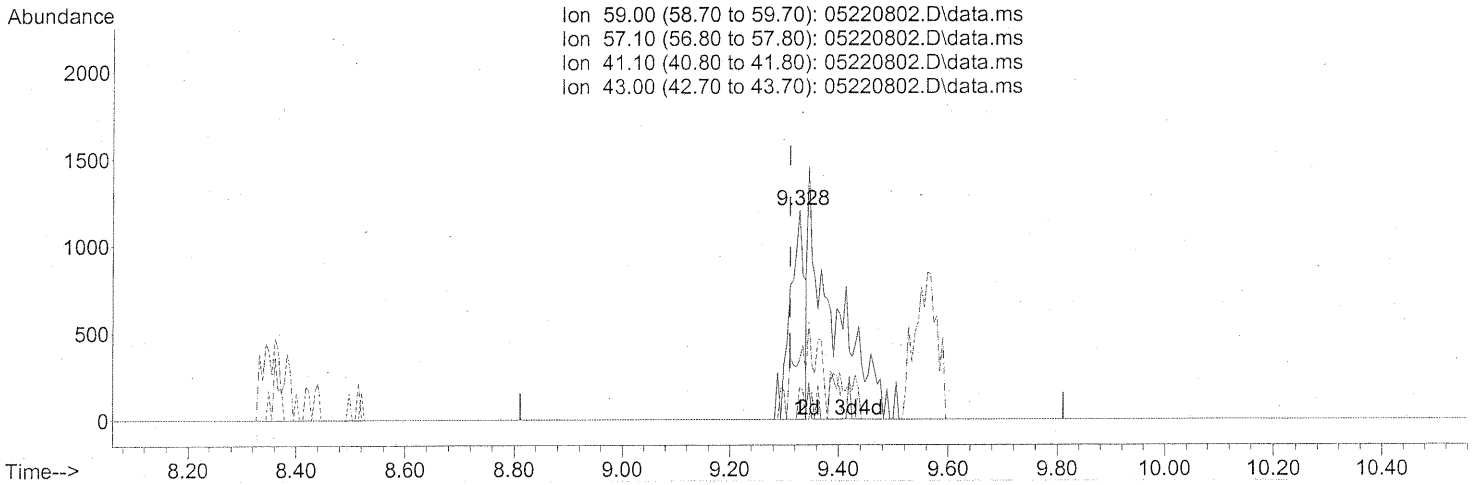
(16) Acrylonitrile (T)
8.663min (-0.011) 0.09ng m
response 3038

| Ion | Exp% | Act% |
|-------|-------|-------|
| 53.00 | 100 | 100 |
| 52.00 | 82.50 | 79.66 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

ADDED TAILING
8/05/22/08
8m 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220802.D
 Acq On : 22 May 2008 3:56 am
 Operator : RTB
 Sample : 0.1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210809
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.328min (+0.017) 0.04ng

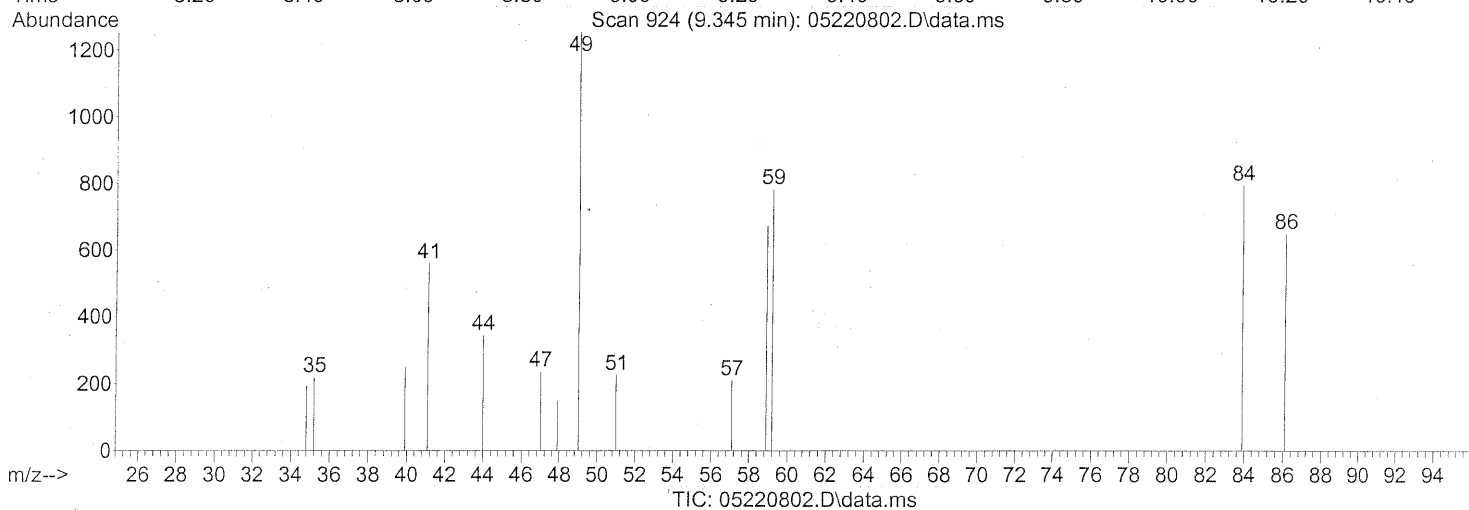
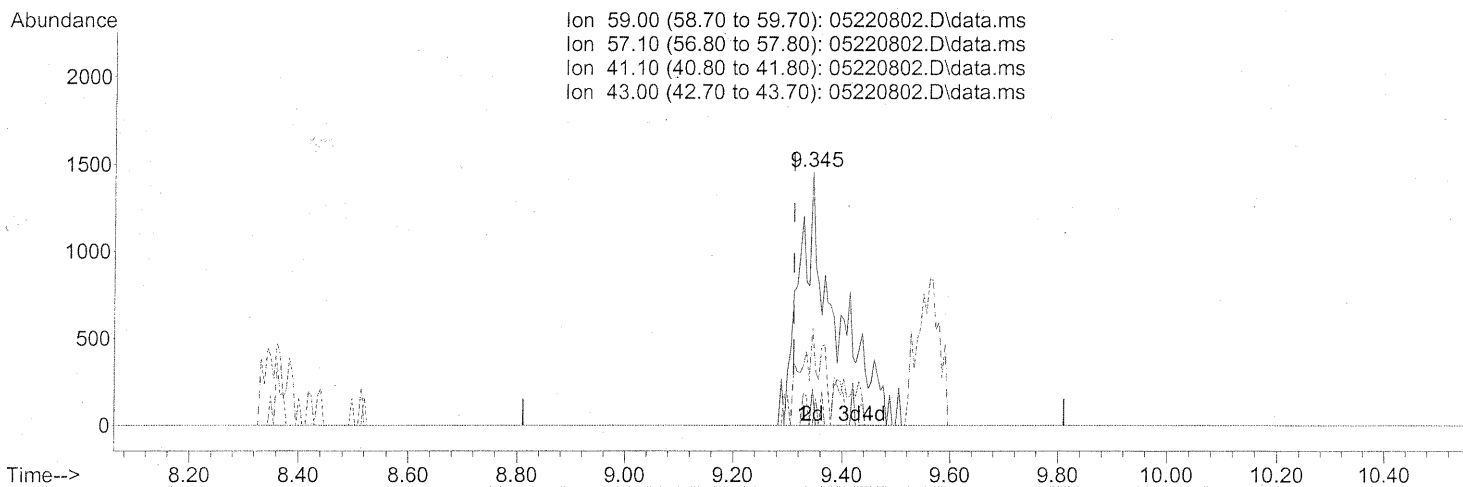
response 2180

SPLIT PEAK

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 0.00 |
| 41.10 | 20.10 | 31.33 |
| 43.00 | 12.30 | 5.55 |

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(18) tert-Butanol (T)
9.345min (+0.034) 0.11ng m
response 6738

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 0.00 |
| 41.10 | 20.10 | 10.14 |
| 43.00 | 12.30 | 1.80 |

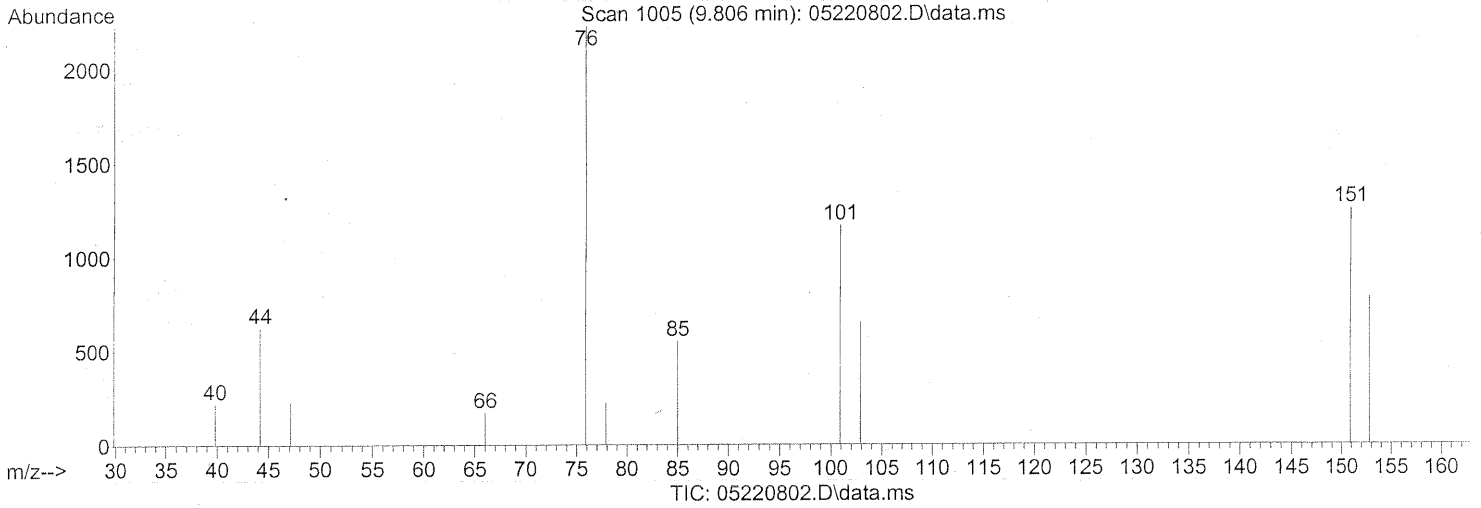
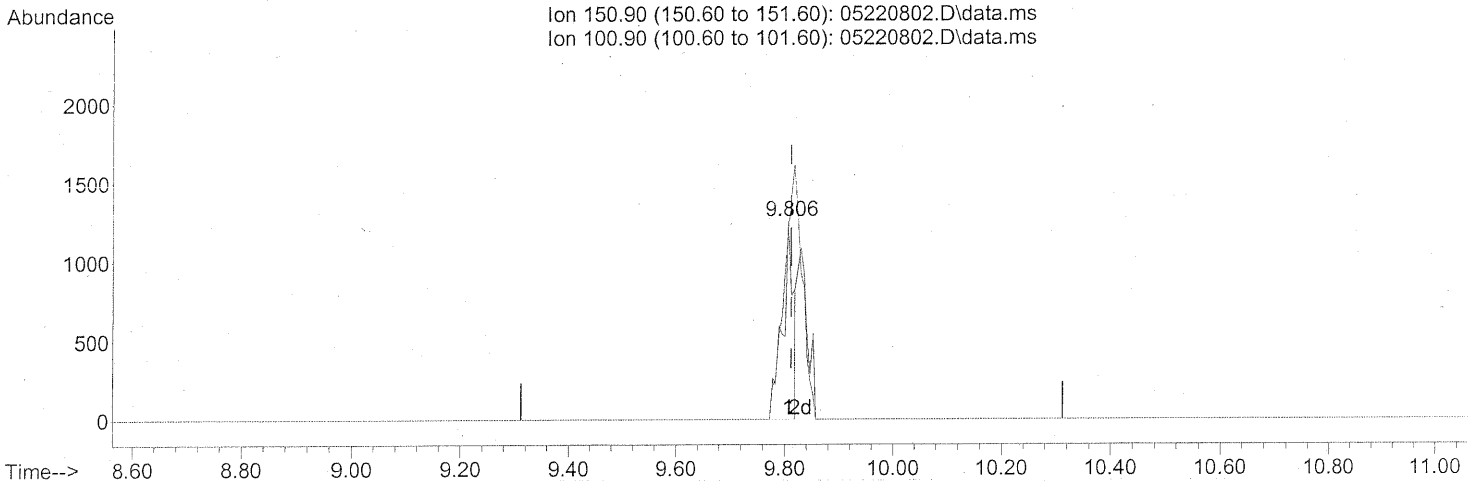
INT. THE WHOLE PEAK

4/05/22/08

RTB 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (-0.005) 0.09ng

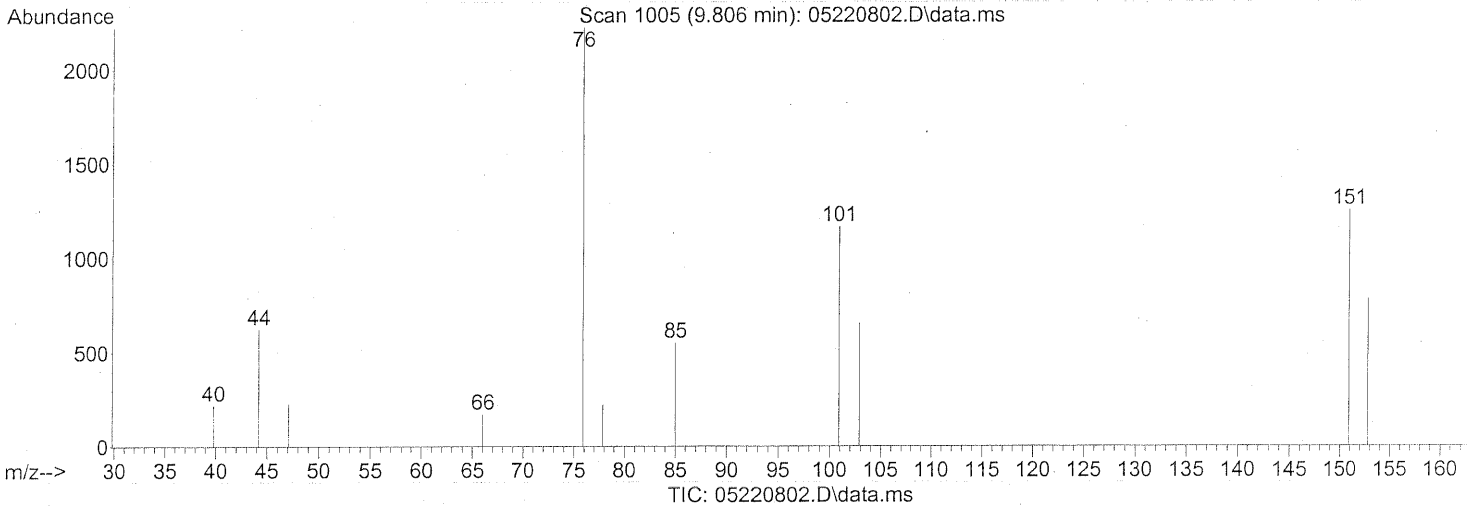
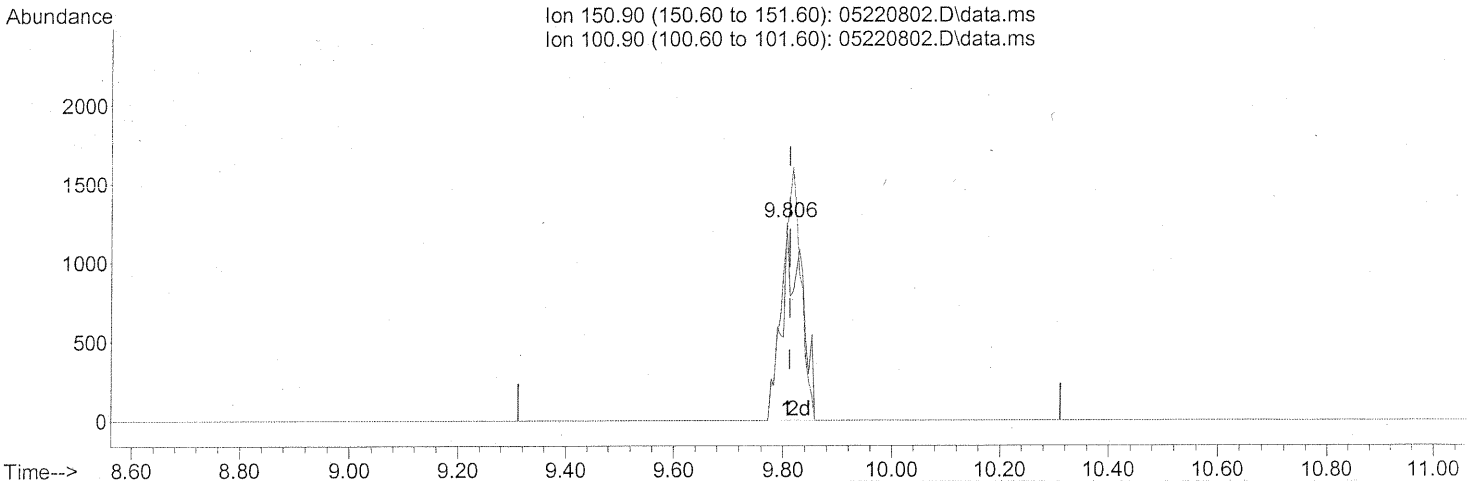
response 1705

| Ion | Exp% | Act% |
|--------|--------|-------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

SPLIT PEAK

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (-0.005) 0.16ng m

response 3176

| Ion | Exp% | Act% |
|--------|--------|-------|
| 150.90 | 100 | 100 |
| 100.90 | 126.50 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

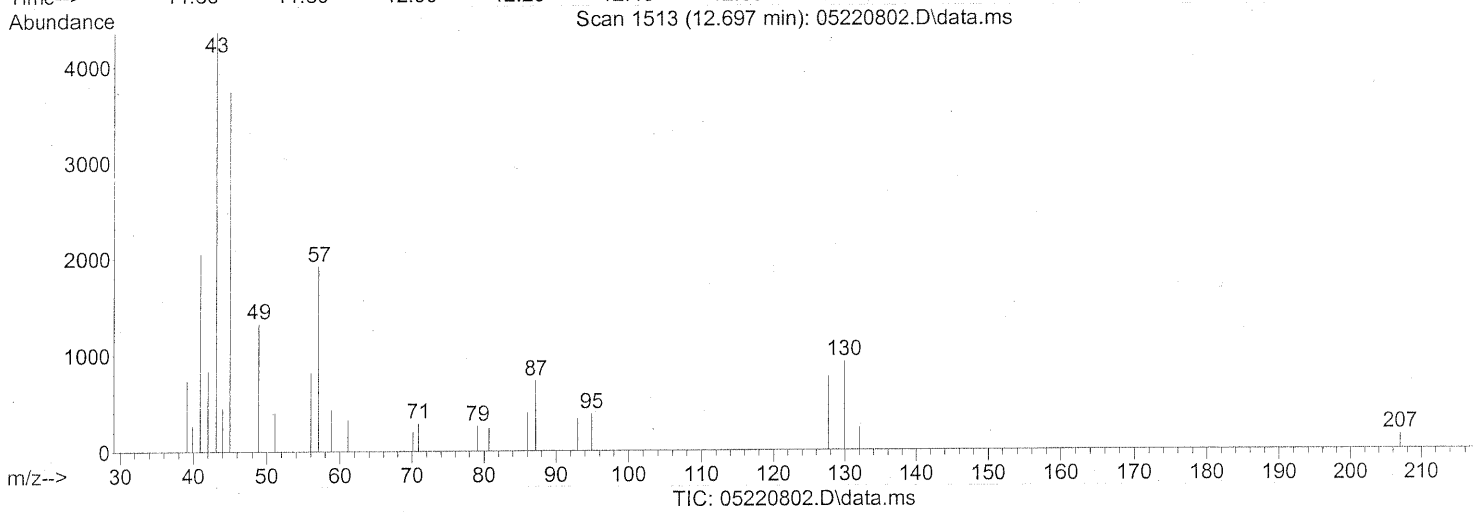
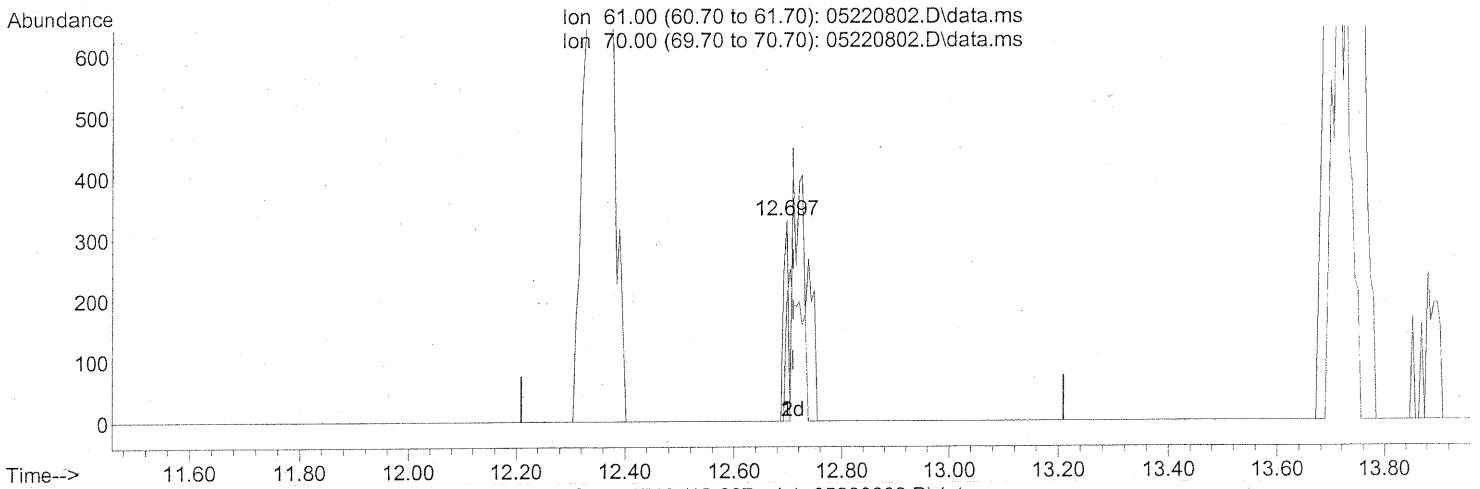
INT. THE WHOLE PEAK

5/22/08

Em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



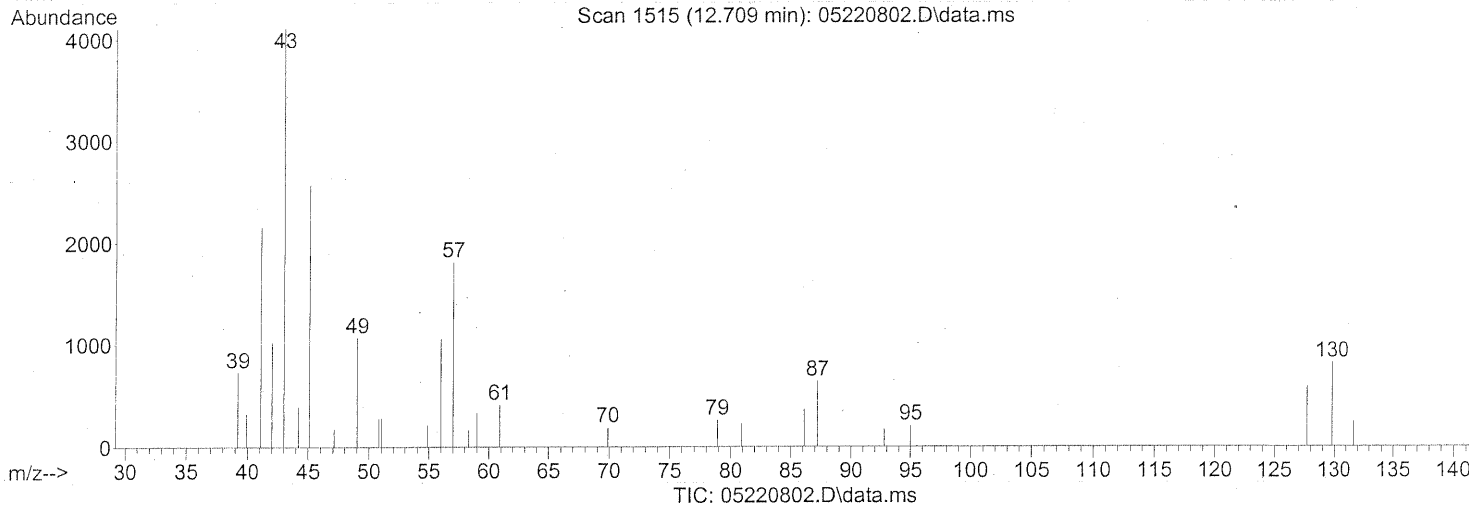
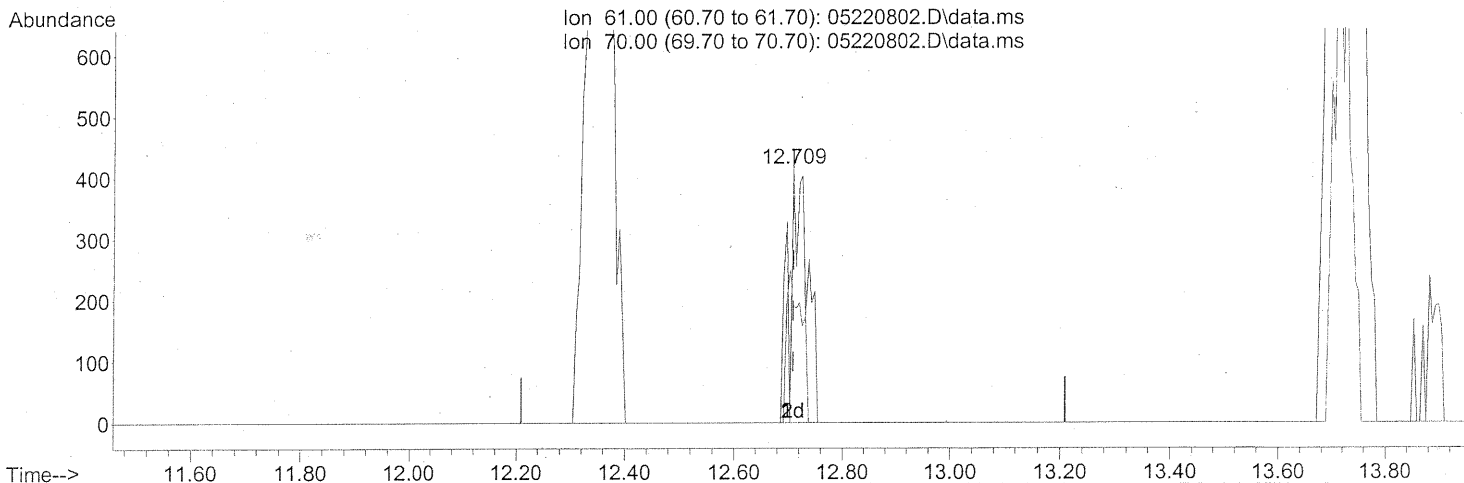
(30) Ethyl Acetate (T)
12.697min (-0.012) 0.02ng
response 195

| Ion | Exp% | Act% |
|-------|-------|-------|
| 61.00 | 100 | 100 |
| 70.00 | 58.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

SPLIT PEAK

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



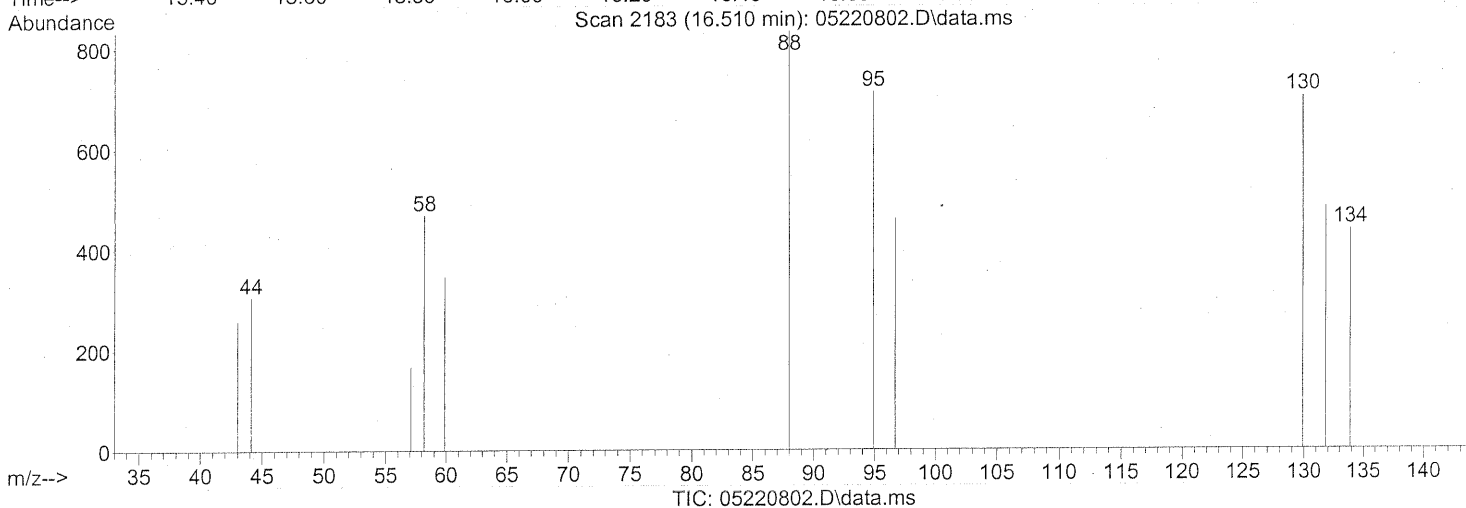
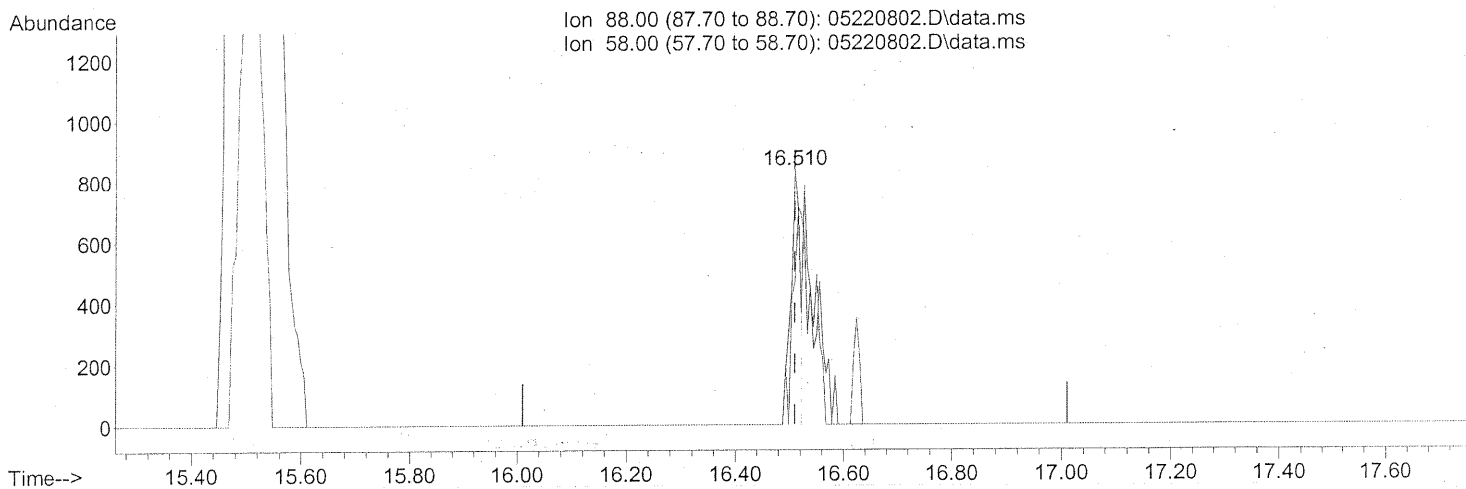
(30) Ethyl Acetate (T)
12.709min (-0.000) 0.10ng m
response 986

| Ion | Exp% | Act% |
|-------|-------|-------|
| 61.00 | 100 | 100 |
| 70.00 | 58.30 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

INT. THE WHOLE PEAK
Post 5/22/08
Em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220802.D
 Acq On : 22 May 2008 3:56 am
 Operator : RTB
 Sample : 0.1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210809
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.510min (+0.000) 0.06ng

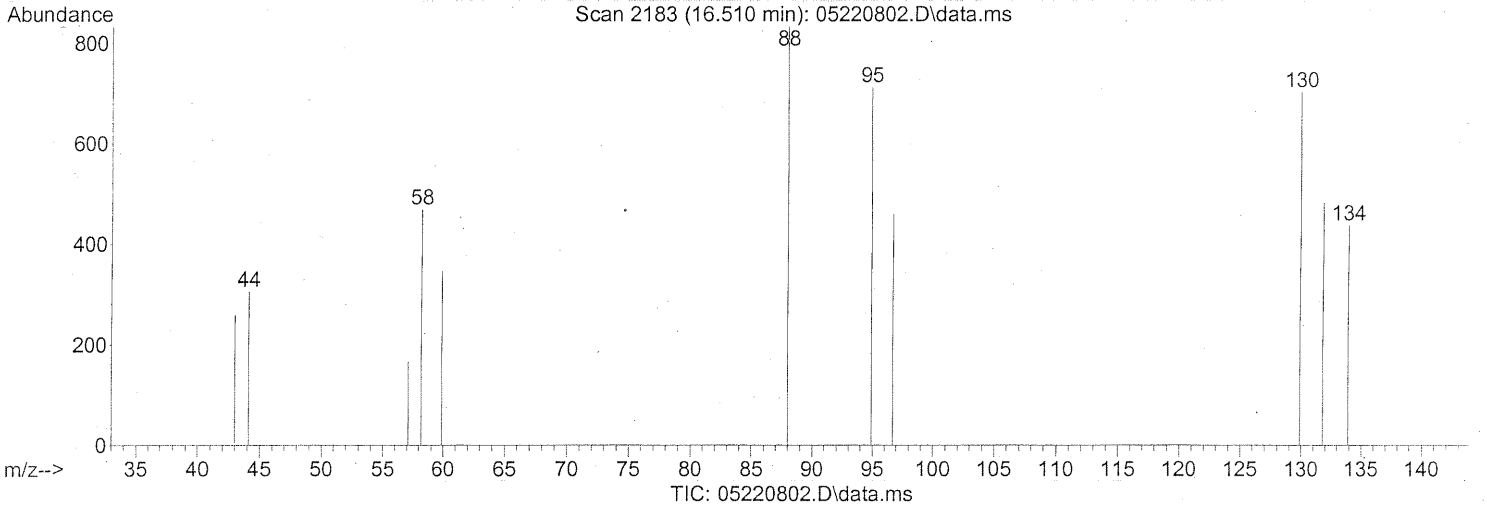
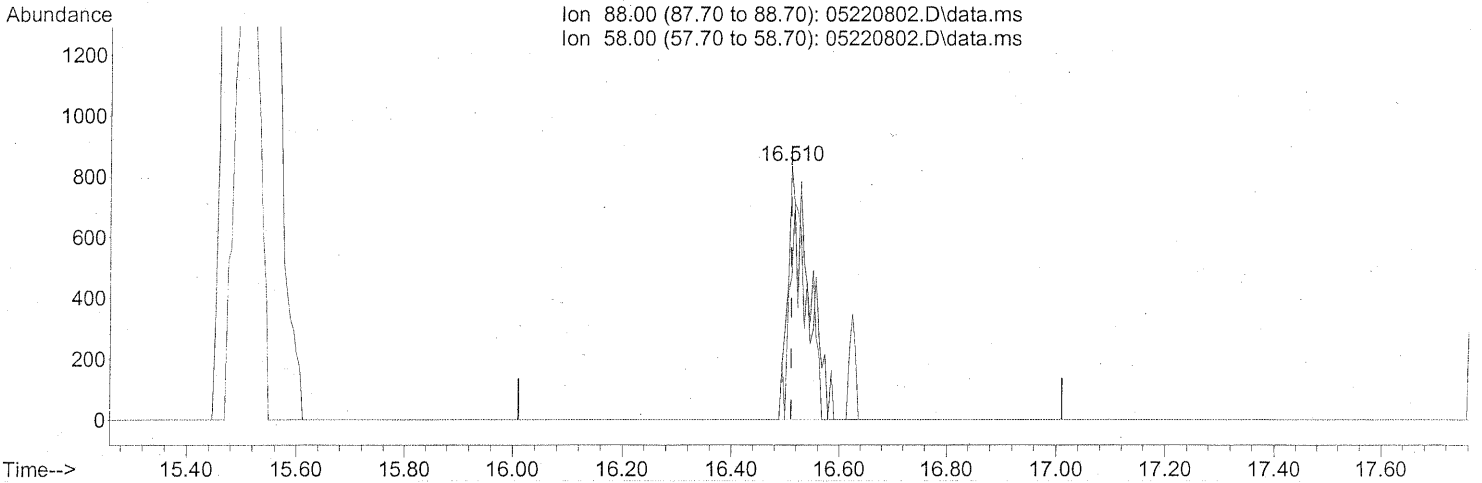
response 974

| Ion | Exp% | Act% |
|-------|-------|---------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 180.70# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

SPLIT PEAK

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220802.D
 Acq On : 22 May 2008 3:56 am
 Operator : RTB
 Sample : 0.1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210809
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.510min (+0.000) 0.14ng m

response 2194

| Ion | Exp% | Act% |
|-------|-------|-------|
| 88.00 | 100 | 100 |
| 58.00 | 90.10 | 80.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

INT. THE WHOLE PEAK

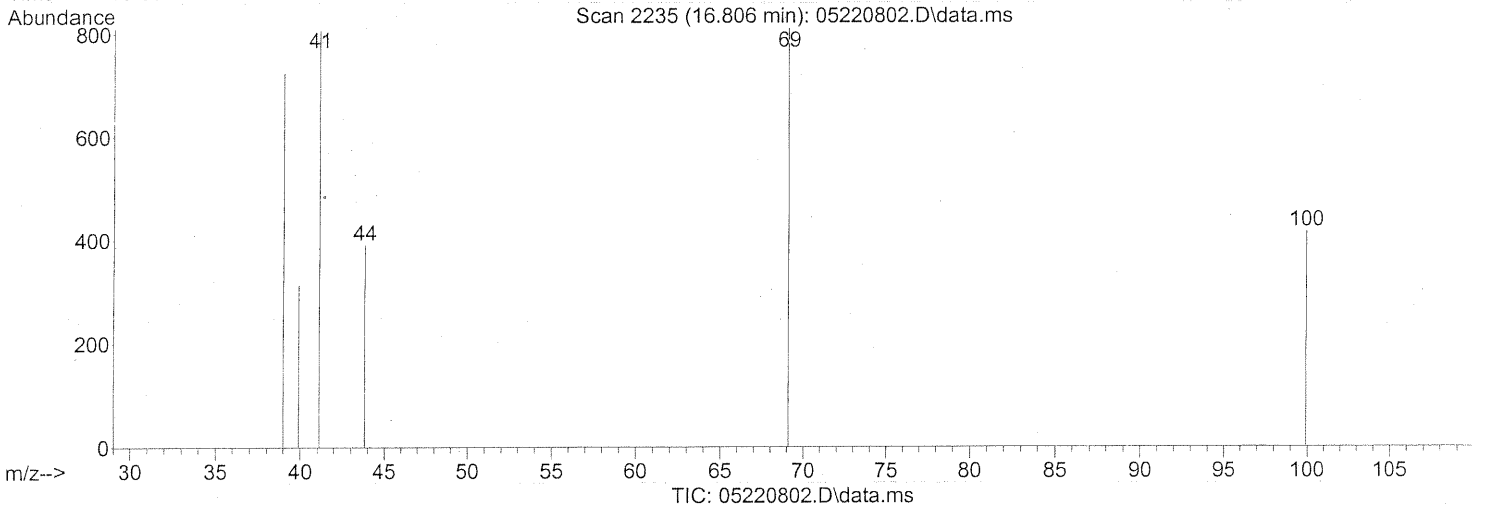
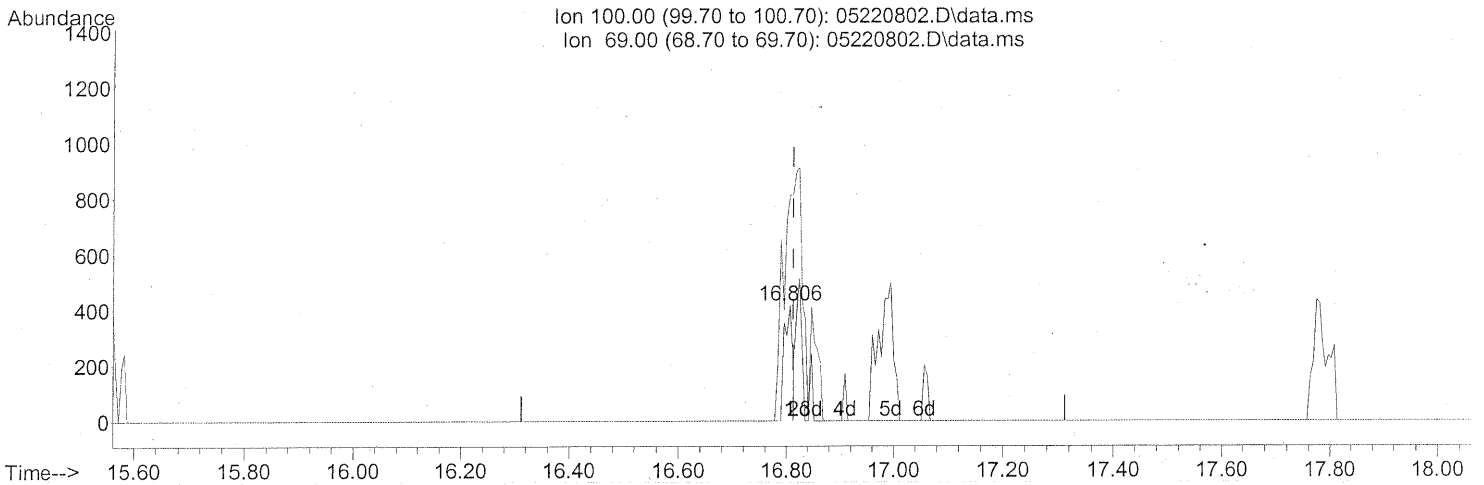
05/22/08

Em 5/22/08

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.806min (-0.006) 0.05ng

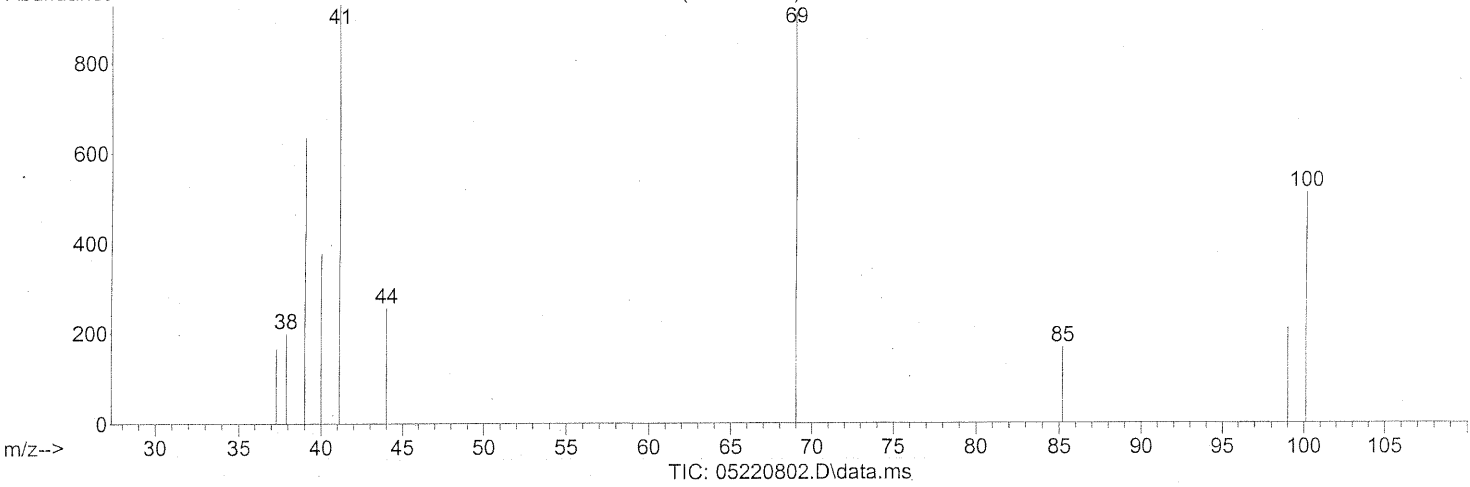
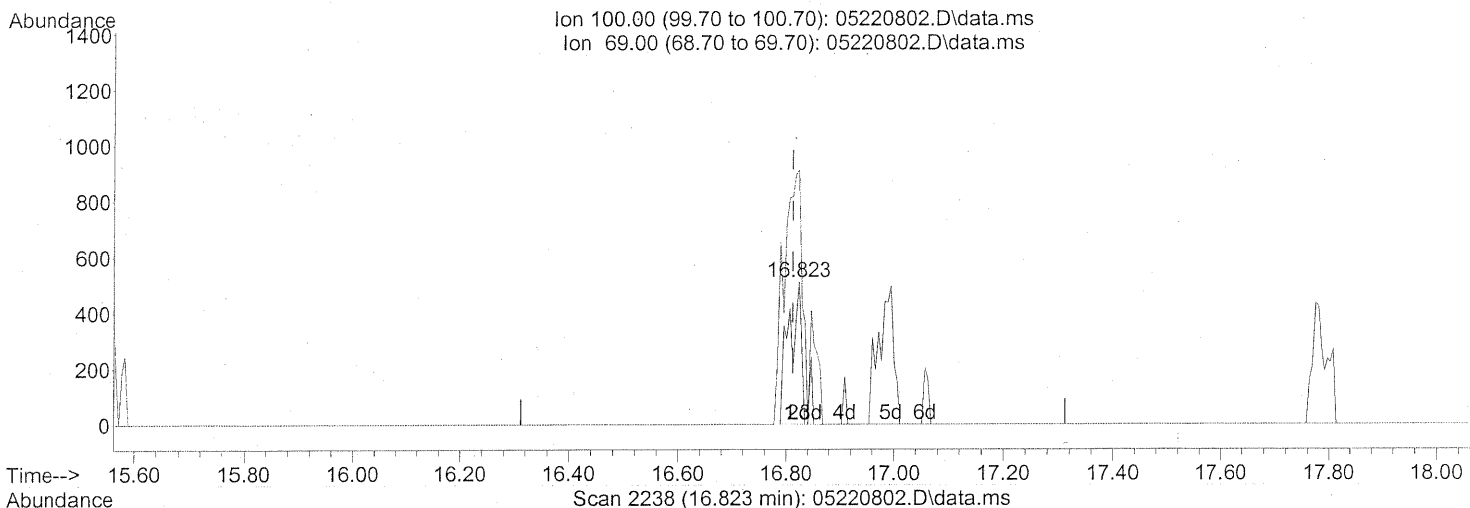
SPLIT PEAK

response 431

| Ion | Exp% | Act% |
|--------|--------|-------|
| 100.00 | 100 | 100 |
| 69.00 | 259.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56 am
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.823min (+0.011) 0.11ng m

response 897

| Ion | Exp% | Act% |
|--------|--------|-------|
| 100.00 | 100 | 100 |
| 69.00 | 259.70 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

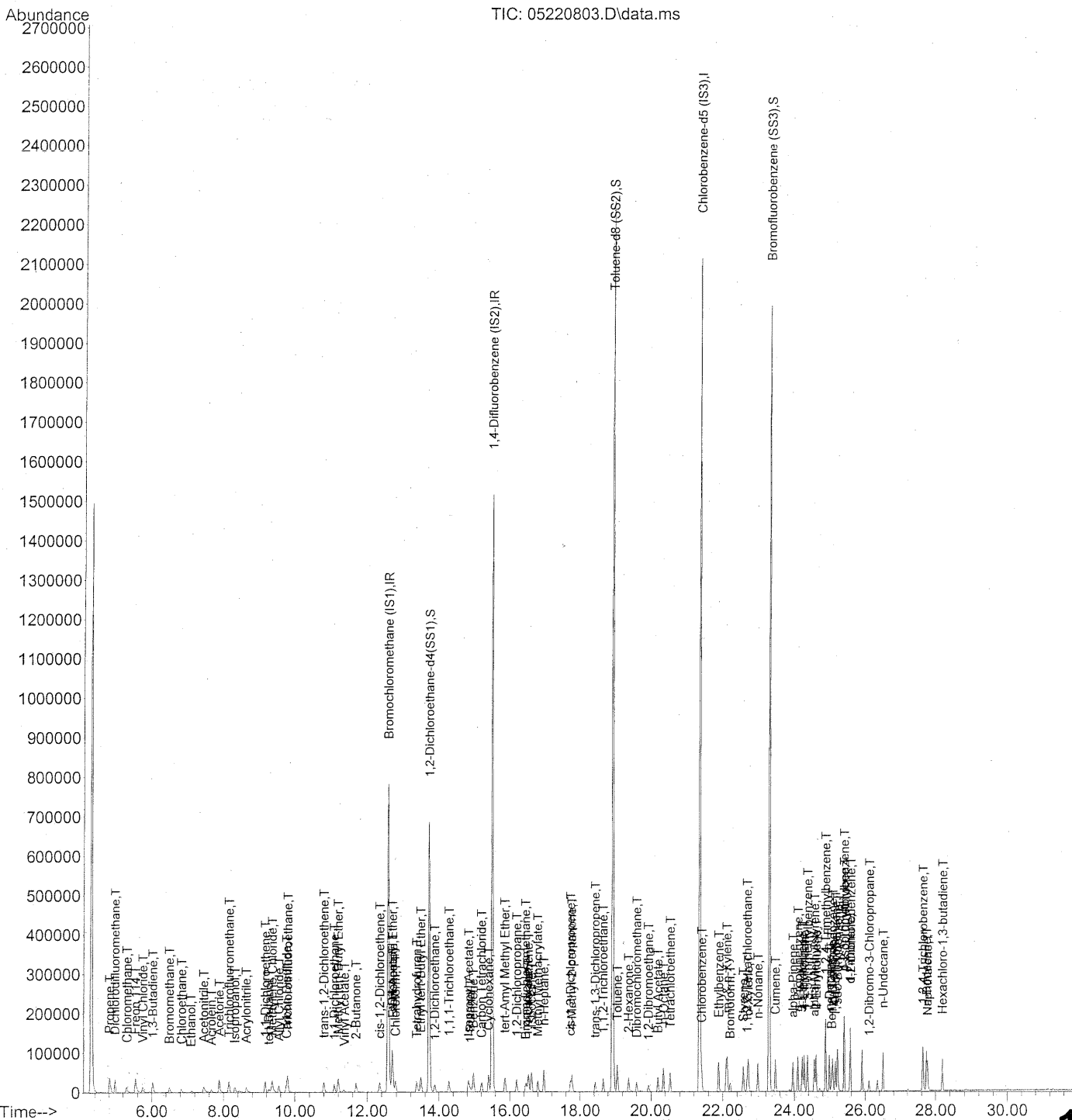
INT. THE WHOLE PEAK

Post 22/08

Em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220803.D
 Acq On : 22 May 2008 4:37 am
 Operator : RTB
 Sample : 0.5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



1714

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220803.D
 Acq On : 22 May 2008 4:37 am
 Operator : RTB
 Sample : 0.5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 390197 | 25.000 | ng | -0.03 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1721246 | 25.000 | ng | -0.02 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 802715 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 697916 | 22.303 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 89.20% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1826728 | 25.389 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 101.56% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 718304 | 29.011 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 116.04% | ✓ |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------|-------|--------|
| 2) Propene | 4.82 | 42 | 18055 | 0.559 | ng | # 78 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 34472 | 0.585 | ng | 97 |
| 4) Chloromethane | 5.30 | 50 | 24413 | 0.496 | ng | 99 |
| 5) Freon 114 | 5.54 | 135 | 17859 | 0.619 | ng | 97 |
| 6) Vinyl Chloride | 5.74 | 62 | 21616 | 0.472 | ng | 96 |
| 7) 1,3-Butadiene | 6.02 | 54 | 16619 | 0.469 | ng | # 71 |
| 8) Bromomethane | 6.49 | 94 | 12058 | 0.548 | ng | 100 |
| 9) Chloroethane | 6.84 | 64 | 10877 | 0.573 | ng | 99 |
| 10) Ethanol | 7.10 | 45 | 10775m | 0.489 | ng | |
| 11) Acetonitrile | 7.45 | 41 | 30763 | 0.531 | ng | 96 |
| 12) Acrolein | 7.66 | 56 | 8102 | 0.521 | ng | 97 |
| 13) Acetone | 7.88 | 58 | 17001 | 0.787 | ng | # 67 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 29926 | 0.647 | ng | 99 |
| 15) Isopropanol | 8.32 | 45 | 40731m | 0.557 | ng | |
| 16) Acrylonitrile | 8.63 | 53 | 17611 | 0.525 | ng | 89 |
| 17) 1,1-Dichloroethene | 9.17 | 96 | 13954 | 0.648 | ng | # 79 |
| 18) tert-Butanol | 9.27 | 59 | 34271m | 0.565 | ng | |
| 19) Methylene Chloride | 9.36 | 84 | 14738 | 0.594 | ng | 90 |
| 20) Allyl Chloride | 9.56 | 41 | 16325 | 0.492 | ng | 98 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 14162 | 0.716 | ng | 99 |
| 22) Carbon Disulfide | 9.77 | 76 | 49203 | 0.535 | ng | 95 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 21380 | 0.569 | ng | 86 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 26702 | 0.611 | ng | 96 |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 42133 | 0.587 | ng | 86 |
| 26) Vinyl Acetate | 11.37 | 86 | 988m | 0.230 | ng | |
| 27) 2-Butanone | 11.70 | 72 | 9835 | 0.649 | ng | # 89 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 21172 | 0.598 | ng | 81 |
| 29) Diisopropyl Ether | 12.69 | 87 | 10651 | 0.536 | ng | # 87 |
| 30) Ethyl Acetate | 12.71 | 61 | 5838 | 0.618 | ng | 85 |
| 31) n-Hexane | 12.70 | 57 | 25549 | 0.521 | ng | 87 |

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220803.D
 Acq On : 22 May 2008 4:37 am
 Operator : RTB
 Sample : 0.5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 32) Chloroform | 12.78 | 83 | 27481 | 0.754 | ng | 97 |
| 34) Tetrahydrofuran | 13.37 | 72 | 9521 | 0.628 | ng # | 89 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 15911 | 0.608 | ng # | 72 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 22331 | 0.619 | ng | 100 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 23788 | 0.663 | ng | 95 |
| 39) Isopropyl Acetate | 14.84 | 61 | 8114 | 0.518 | ng # | 36 |
| 40) 1-Butanol | 14.89 | 56 | 11751m | 0.500 | ng | |
| 41) Benzene | 14.98 | 78 | 54381 | 0.596 | ng | 98 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 20160 | 0.668 | ng | 95 |
| 43) Cyclohexane | 15.41 | 84 | 22659 | 0.671 | ng # | 71 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 37701 | 0.580 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 15628 | 0.597 | ng | 99 |
| 46) Bromodichloromethane | 16.45 | 83 | 20164 | 0.649 | ng | 99 |
| 47) Trichloroethene | 16.53 | 130 | 19130 | 0.852 | ng | 94 |
| 48) 1,4-Dioxane | 16.51 | 88 | 10866 | 0.672 | ng # | 76 |
| 49) Isooctane | 16.62 | 57 | 60007 | 0.555 | ng | 78 |
| 50) Methyl Methacrylate | 16.80 | 100 | 5270 | 0.636 | ng | 100 |
| 51) n-Heptane | 16.98 | 71 | 14968 | 0.592 | ng # | 78 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 20622 | 0.580 | ng | 96 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 13493 | 0.540 | ng | 74 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 17672 | 0.575 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 13754 | 0.625 | ng | 97 |
| 58) Toluene | 19.06 | 91 | 62960 | 0.696 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 36470 | 0.542 | ng | 82 |
| 60) Dibromochloromethane | 19.60 | 129 | 16288 | 0.747 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 15889 | 0.748 | ng | 96 |
| 62) Butyl Acetate | 20.19 | 43 | 39596 | 0.588 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 12094 | 0.571 | ng | 80 |
| 64) Tetrachloroethene | 20.54 | 166 | 17828 | 0.788 | ng | 98 |
| 65) Chlorobenzene | 21.41 | 112 | 40785 | 0.728 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 67717 | 0.671 | ng | 96 |
| 67) m- & p-Xylene | 22.12 | 91 | 111056 | 1.646 | ng | 88 |
| 68) Bromoform | 22.21 | 173 | 12902 | 0.866 | ng | 100 |
| 69) Styrene | 22.57 | 104 | 38052 | 0.653 | ng | 97 |
| 70) o-Xylene | 22.71 | 91 | 55660 | 0.767 | ng | 93 |
| 71) n-Nonane | 22.98 | 43 | 33403 | 0.574 | ng # | 81 |
| 72) 1,1,2,2-Tetrachloroethane | 22.68 | 83 | 20778 | 0.600 | ng | 99 |
| 74) Cumene | 23.46 | 105 | 65915 | 0.716 | ng | 100 |
| 75) alpha-Pinene | 23.96 | 93 | 32023 | 0.654 | ng | 84 |
| 76) n-Propylbenzene | 24.10 | 91 | 80452 | 0.653 | ng | 98 |
| 77) 3-Ethyltoluene | 24.22 | 105 | 65688 | 0.654 | ng | 97 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 64603 | 0.699 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 56551 | 0.689 | ng | 97 |

1716

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

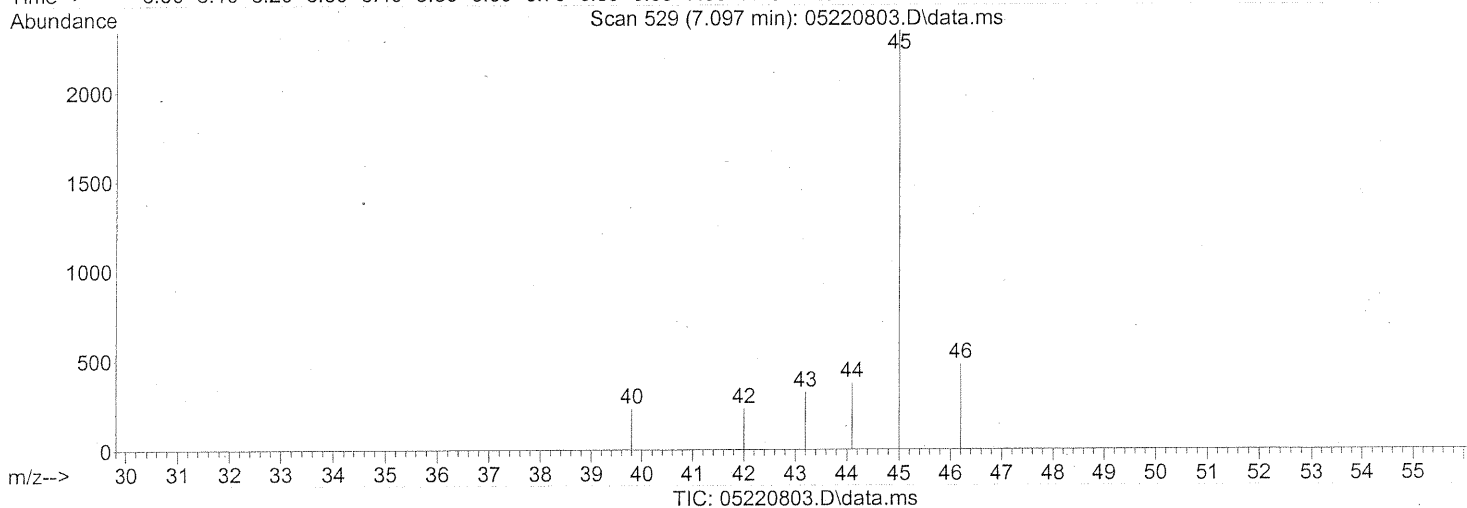
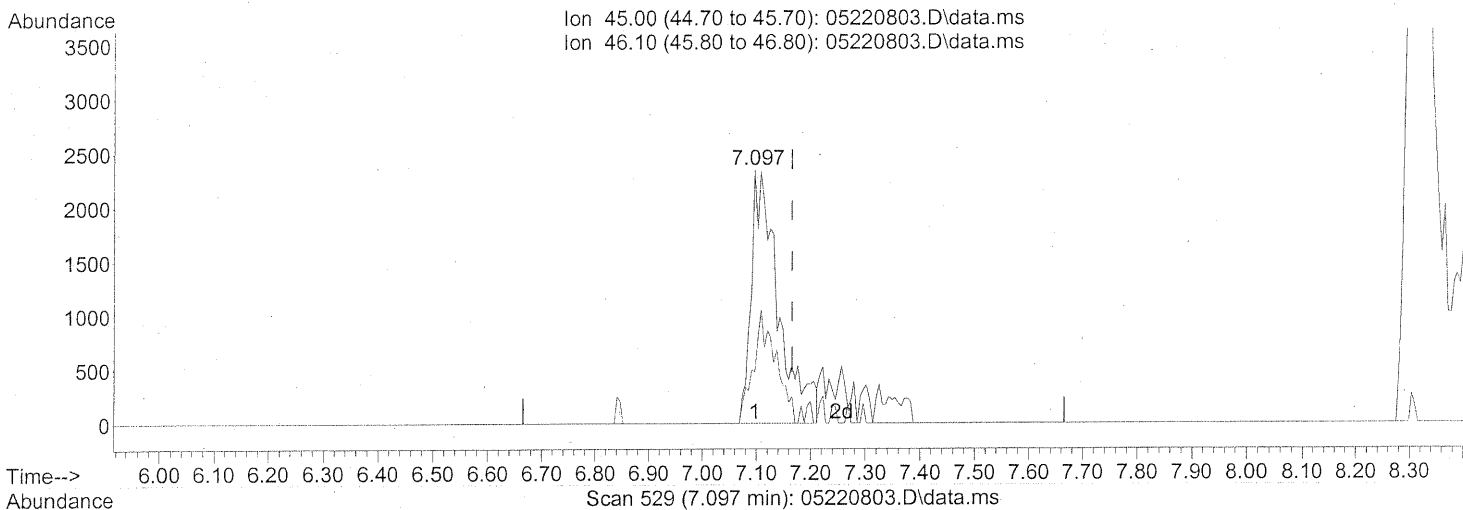
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 27093 | 0.623 | ng | 92 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 63115 | 0.625 | ng | 99 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 58569 | 0.631 | ng | 98 |
| 83) n-Decane | 24.98 | 57 | 31433 | 0.612 | ng | 88 |
| 84) Benzyl Chloride | 25.05 | 91 | 30371 | 0.480 | ng | 96 |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 36248 | 0.721 | ng | 97 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 35281 | 0.734 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 77751 | 0.714 | ng | 97 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 65970 | 0.694 | ng | 95 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 57591 | 0.631 | ng | 98 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 34802 | 0.676 | ng | 100 |
| 91) d-Limonene | 25.57 | 68 | 20842 | 0.495 | ng | 90 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 8581 | 0.629 | ng # | 80 |
| 93) n-Undecane | 26.50 | 57 | 32540 | 0.604 | ng | 86 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 25769 | 0.807 | ng | 97 |
| 95) Naphthalene | 27.77 | 128 | 70883 | 0.691 | ng | 97 |
| 96) n-Dodecane | 27.74 | 57 | 32740 | 0.599 | ng | 87 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 17105 | 0.832 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Handwritten signature
05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.37ng

response 8070

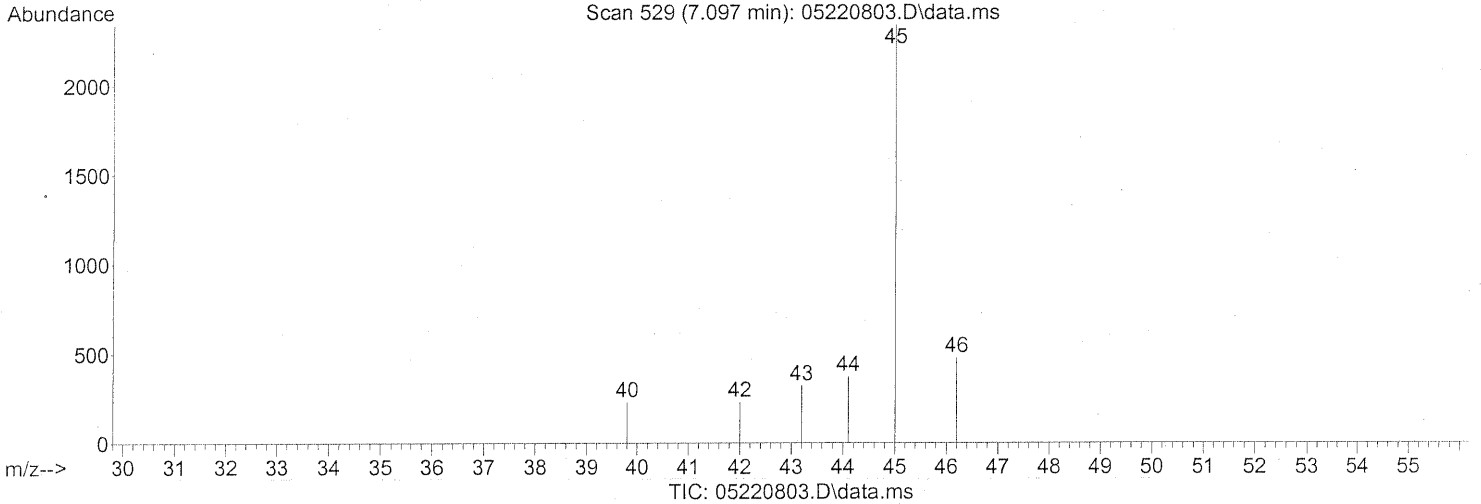
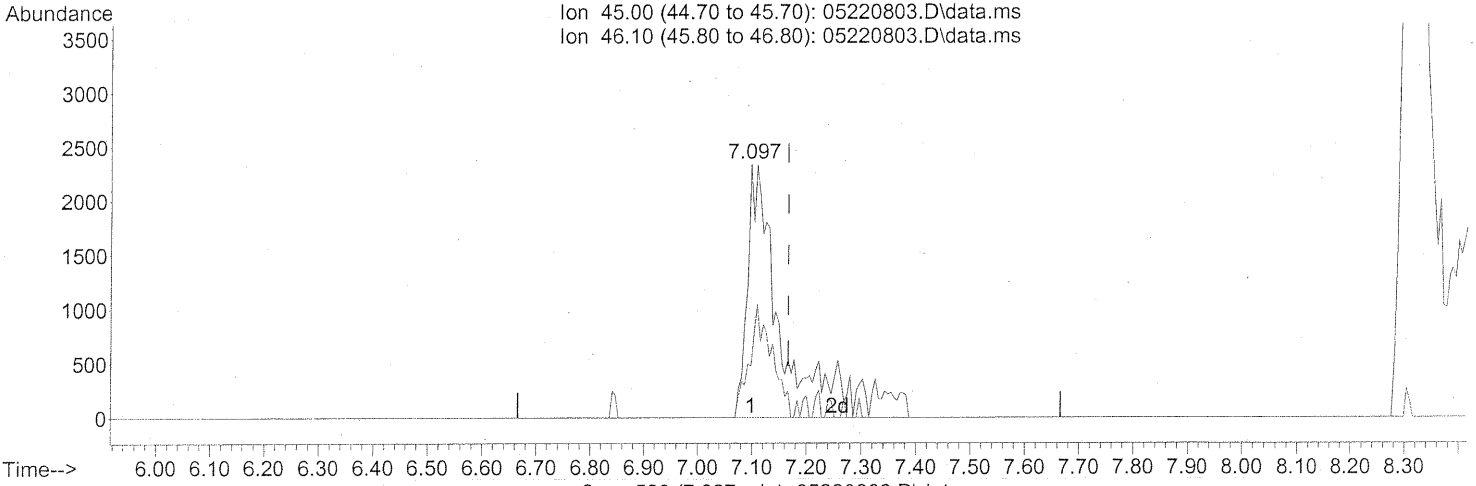
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.37 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.49ng m

response 10775

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 27.99 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

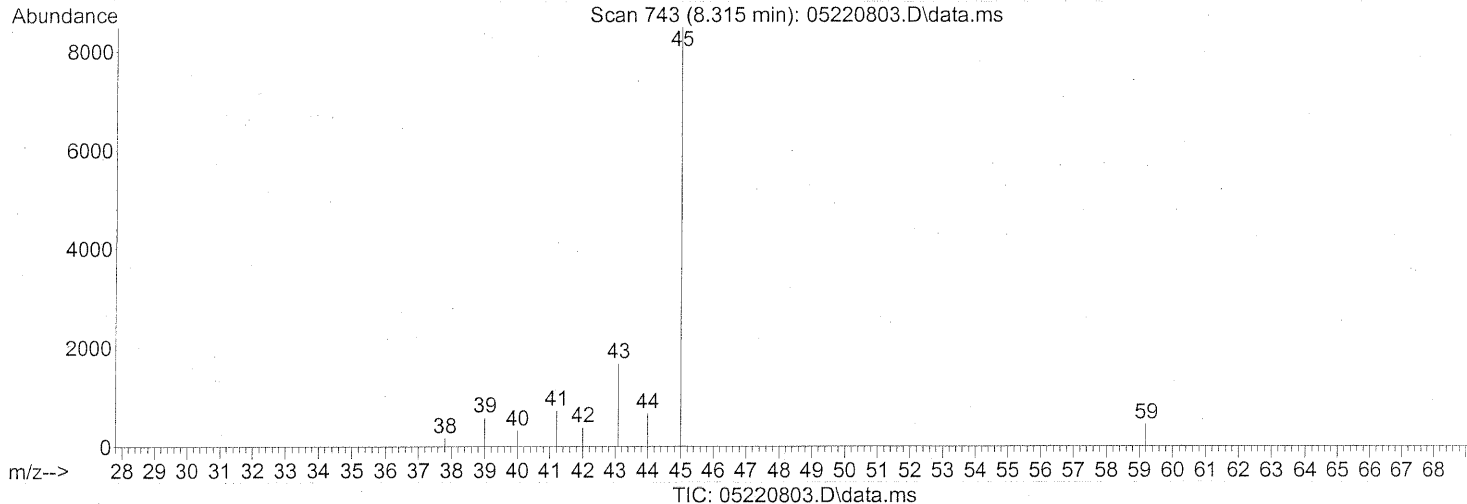
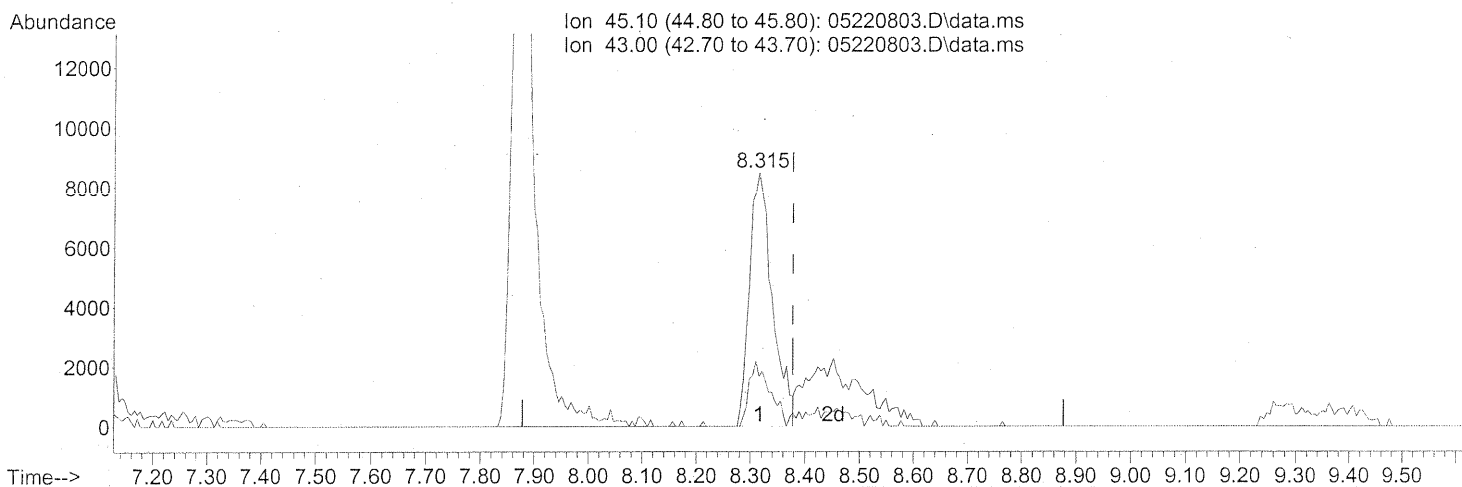
ADDED TAILING

5/22/08

em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

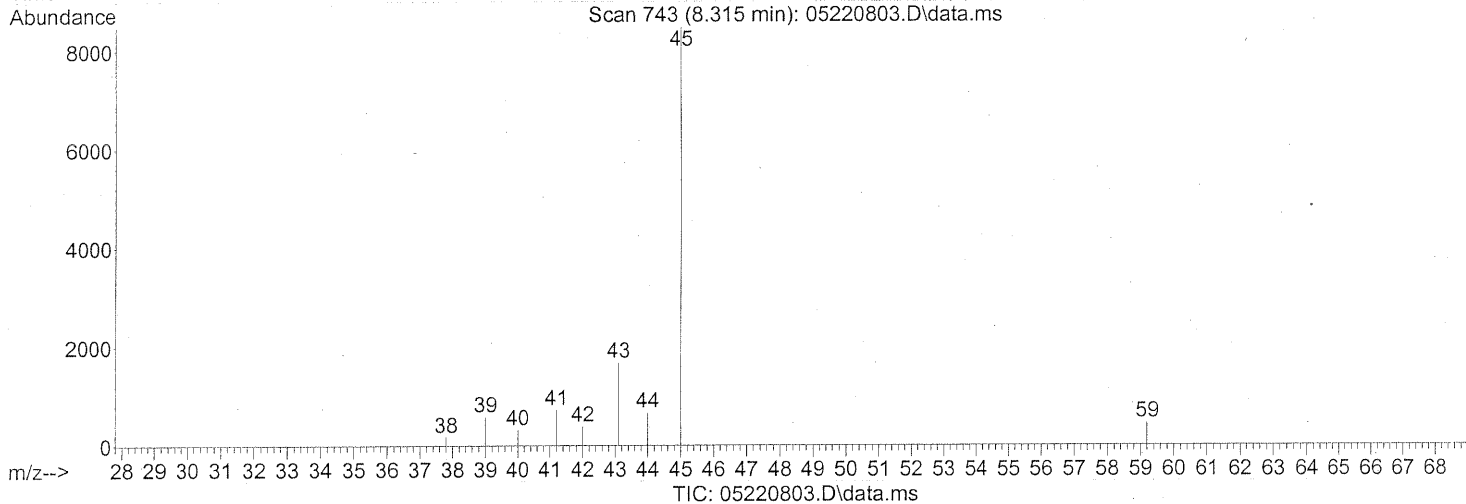
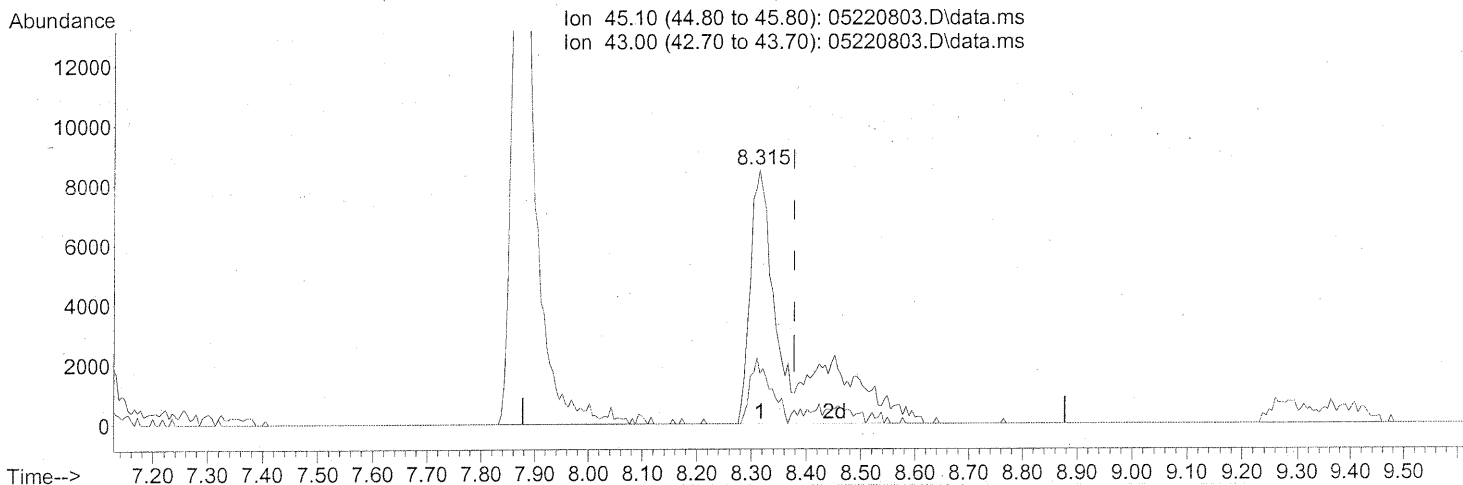


(15) Isopropanol (T)
8.315min (-0.062) 0.34ng
response 24572
Ion Exp% Act%
45.10 100 100
43.00 16.90 22.92
0.00 0.00 0.00
0.00 0.00 0.00

SPLIT PEAK

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(15) Isopropanol (T)
8.315min (-0.062) 0.56ng m
response 40731

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 13.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

INT: THE WHOLE PEAK

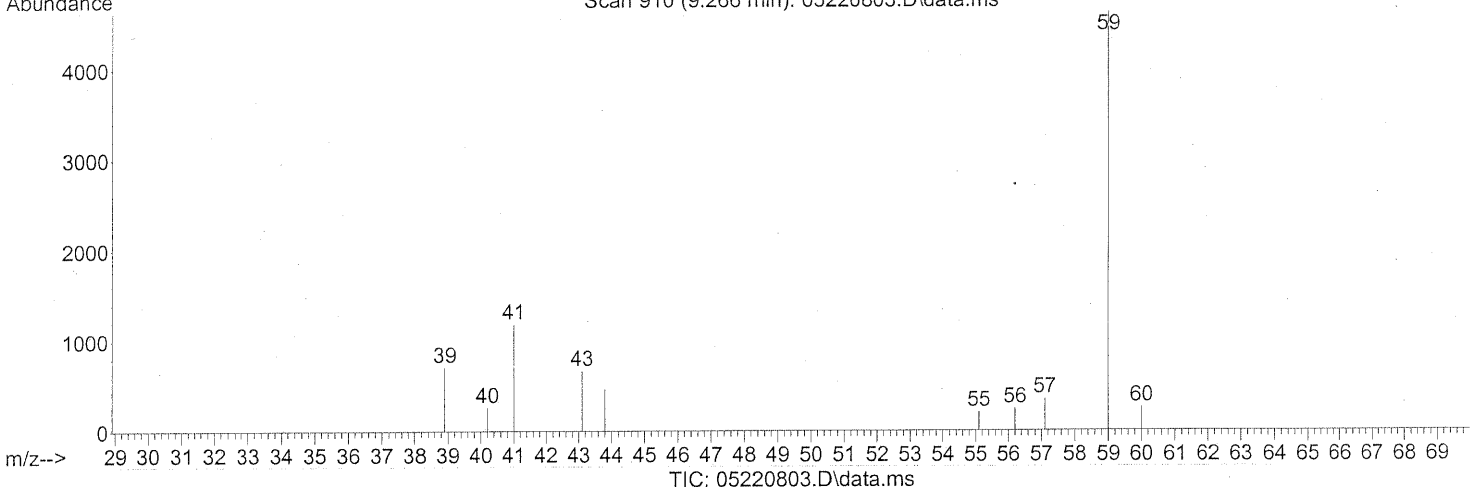
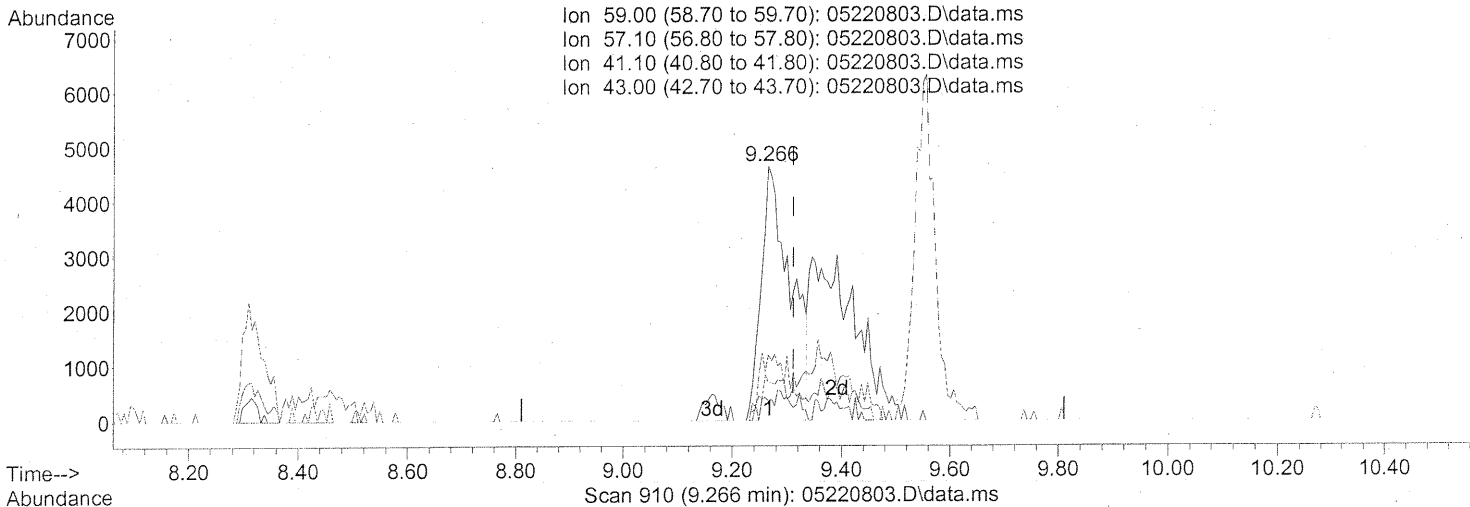
5/22/08

Em 5/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(18) tert-Butanol (T)
9.266min (-0.045) 0.28ng
response 16829

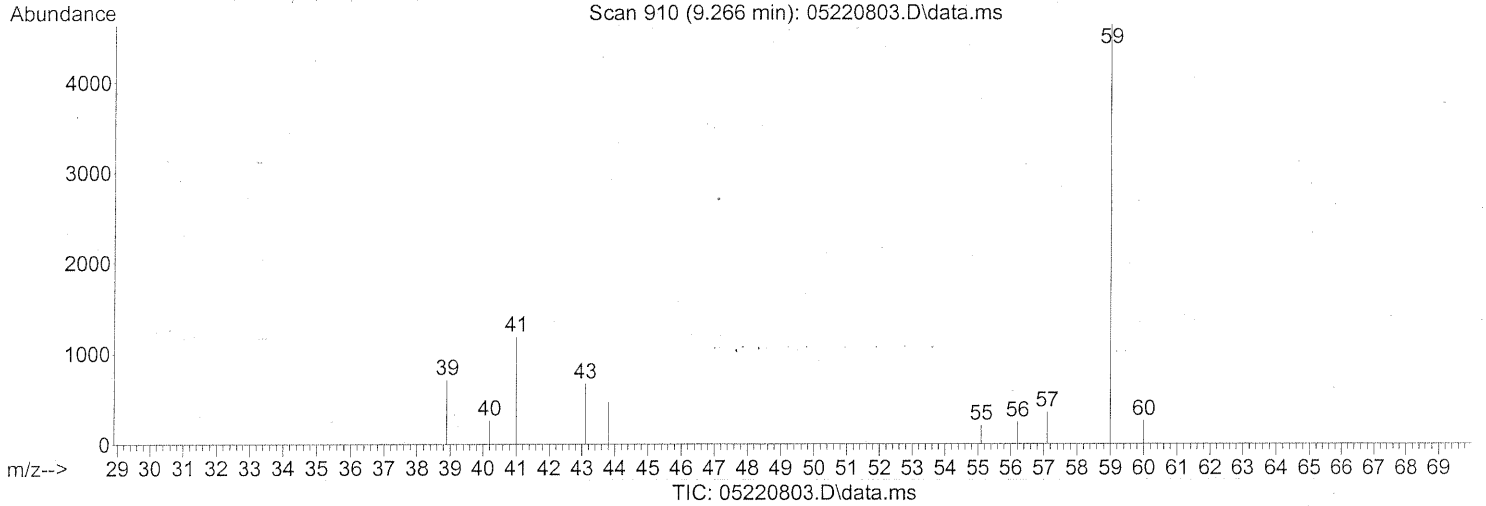
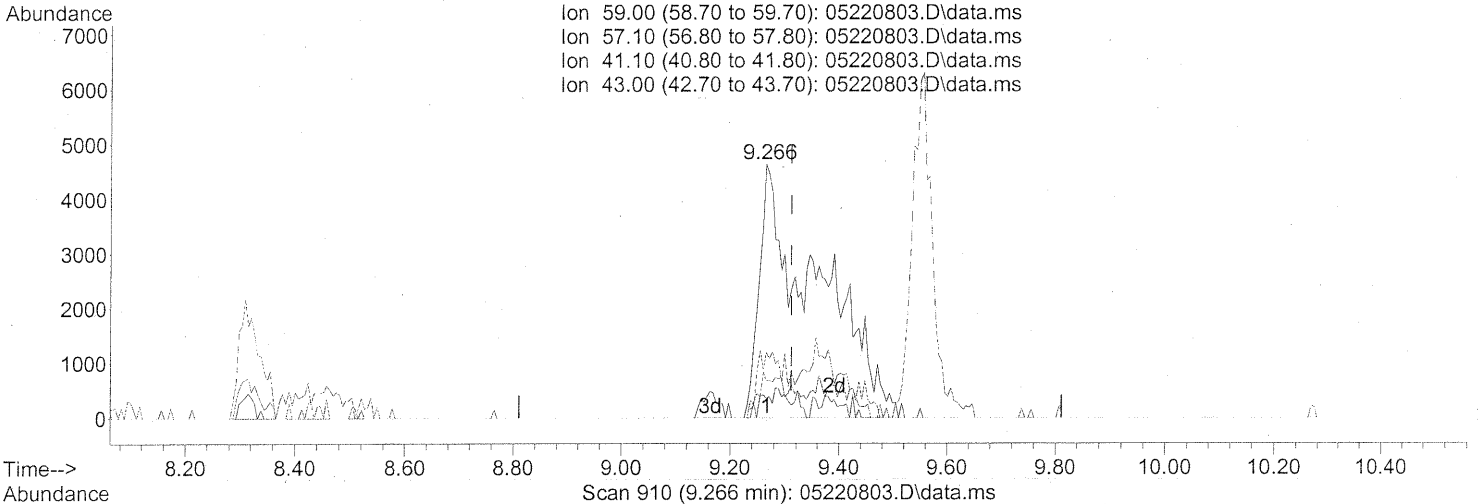
SPLIT PEAK

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 4.27 |
| 41.10 | 20.10 | 27.48 |
| 43.00 | 12.30 | 14.64 |

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (-0.045) 0.57ng m

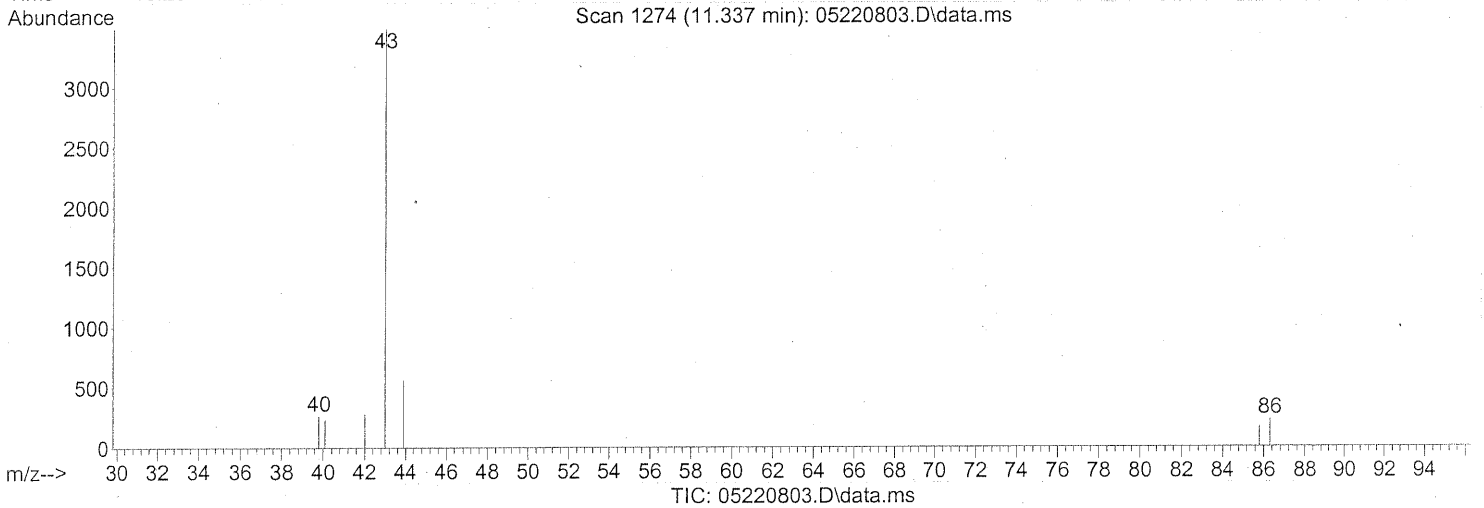
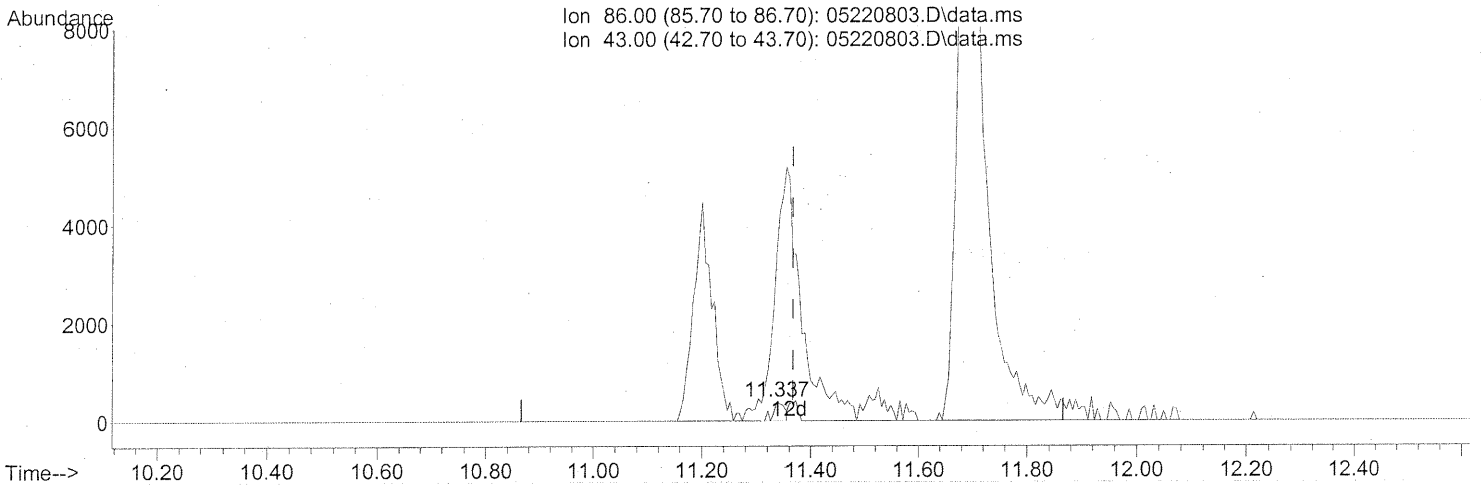
response 34271

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 2.10 |
| 41.10 | 20.10 | 13.49 |
| 43.00 | 12.30 | 7.19 |

INT. THE WHOLE PEAK
5/22/08
EM 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(26) Vinyl Acetate (T)
11.337min (-0.029) 0.13ng

SPLIT PEAK

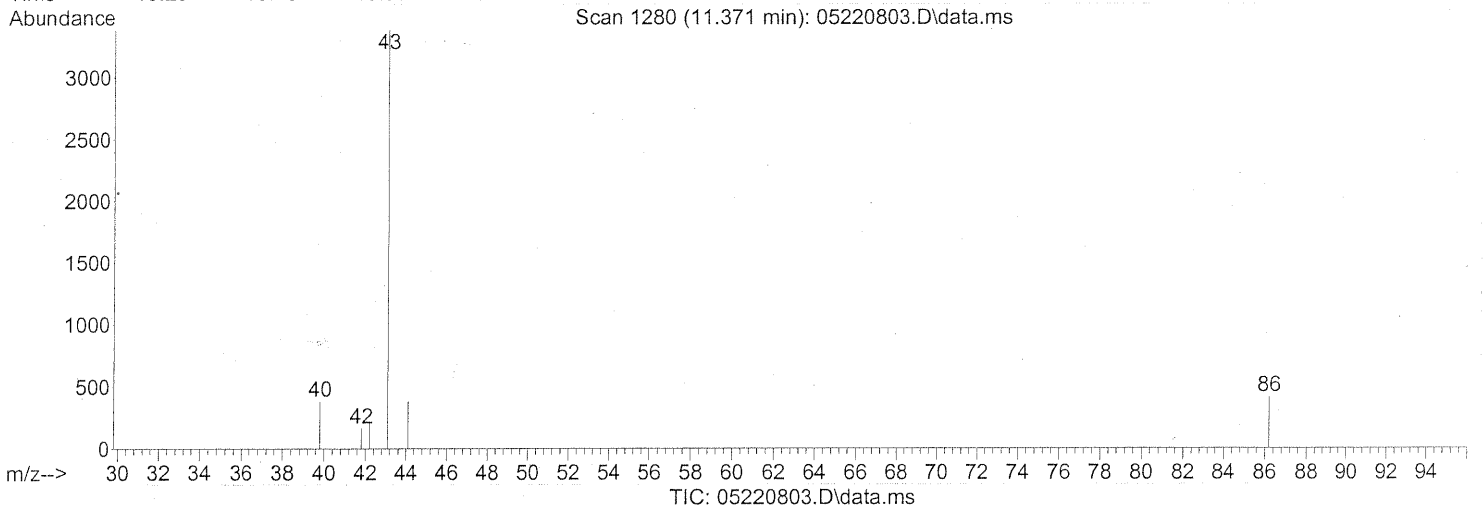
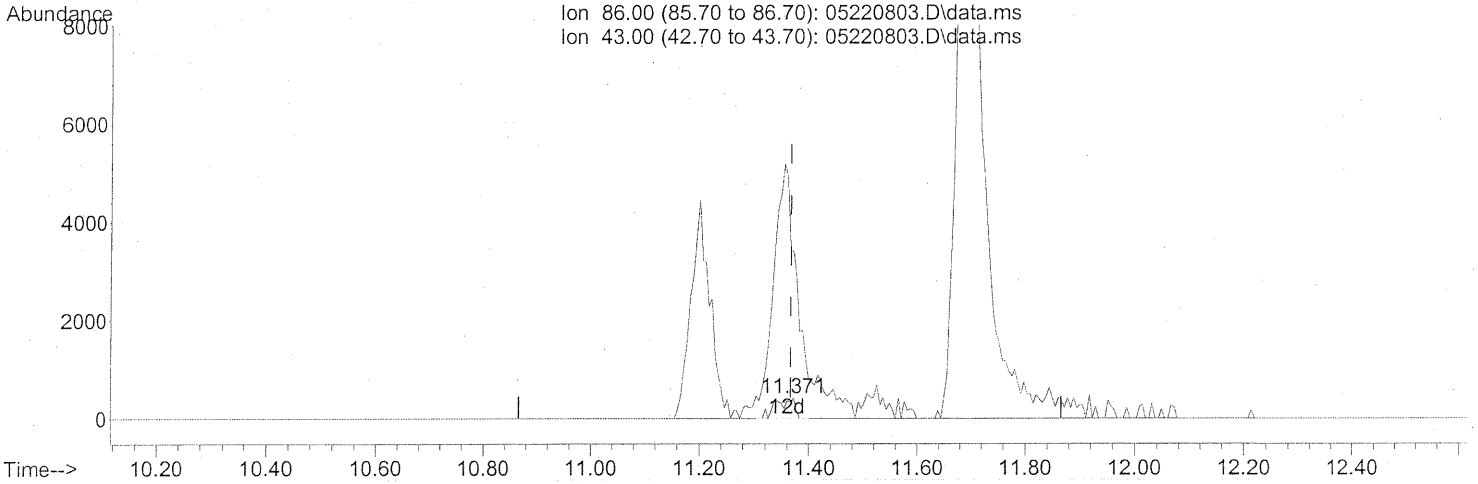
response 550

| Ion | Exp% | Act% |
|-------|---------|-------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(26) Vinyl Acetate (T)
11.371min (+0.005) 0.23ng m

response 988

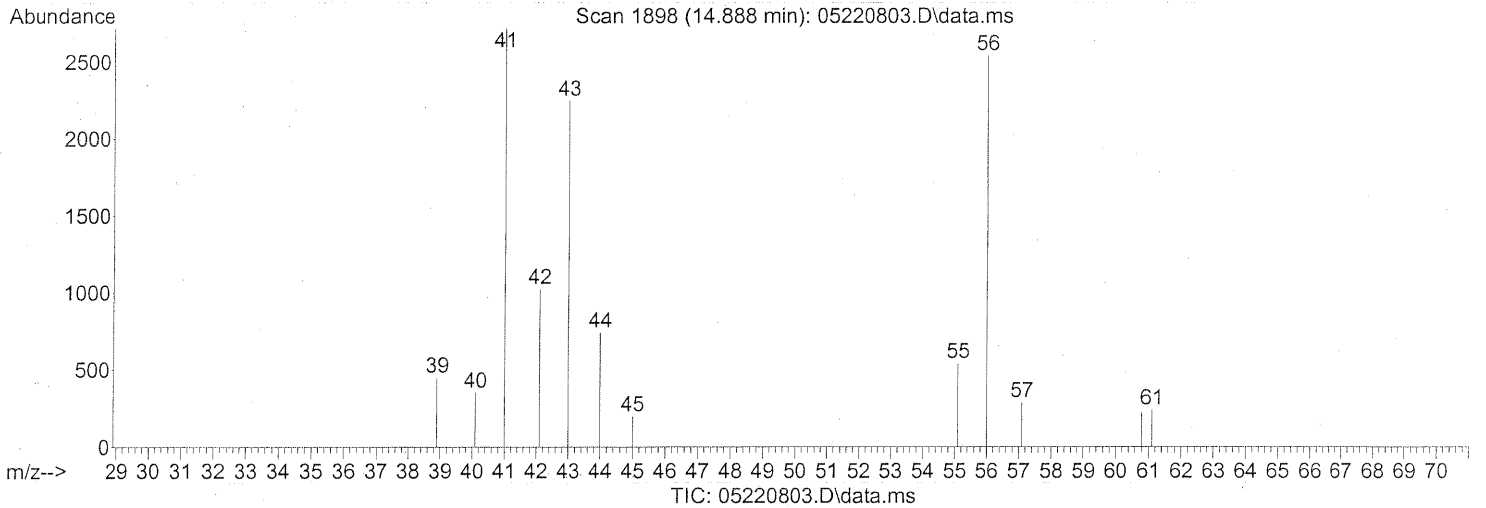
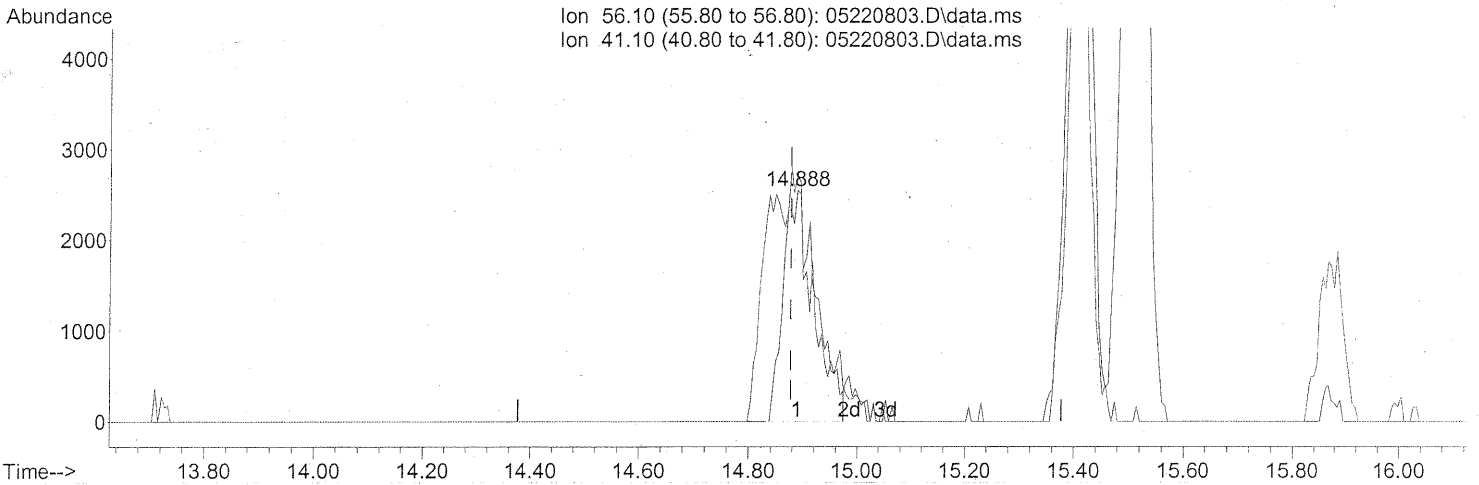
| Ion | Exp% | Act% |
|-------|---------|-------|
| 86.00 | 100 | 100 |
| 43.00 | 1381.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

INT. THE WHOLE PEAK

5/22/08
EM 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37 am
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



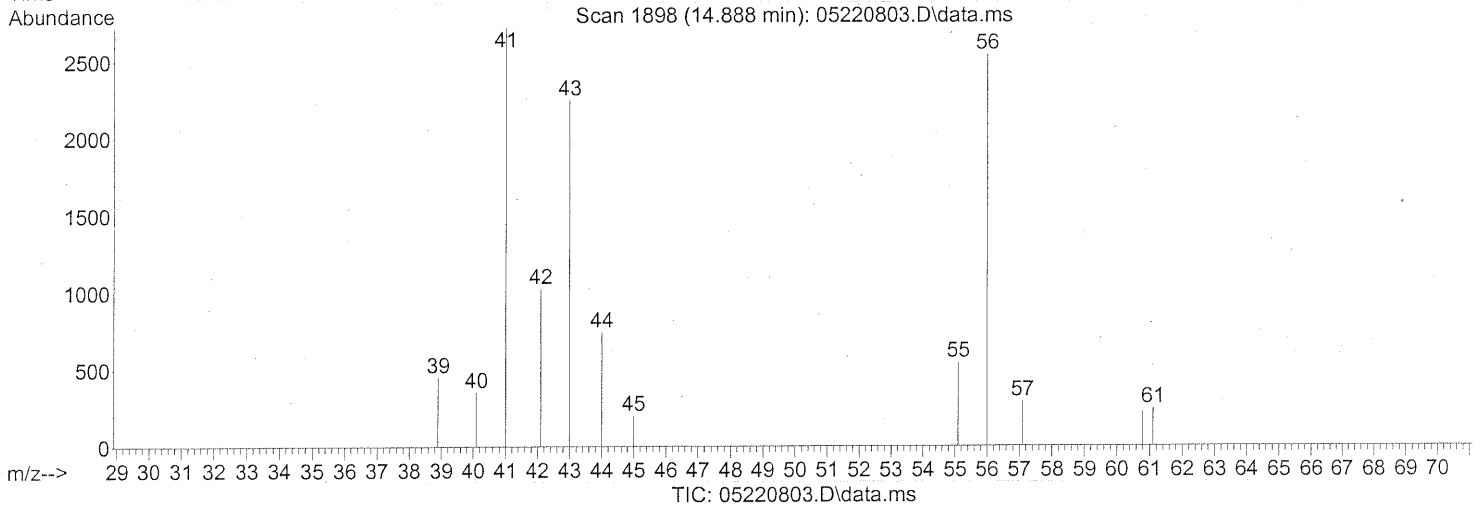
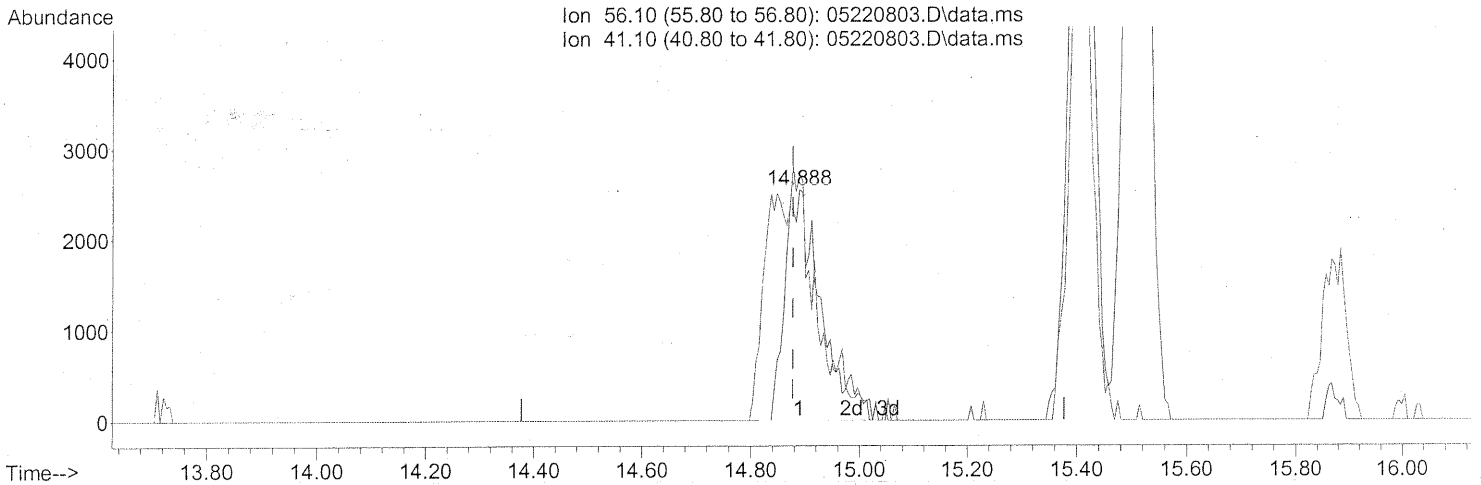
(40) 1-Butanol (T)
14.888min (+0.011) 0.46ng
response 10817

TAILING

| Ion | Exp% | Act% |
|-------|-------|---------|
| 56.10 | 100 | 100 |
| 41.10 | 92.00 | 155.68# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220803.D
 Acq On : 22 May 2008 4:37 am
 Operator : RTB
 Sample : 0.5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



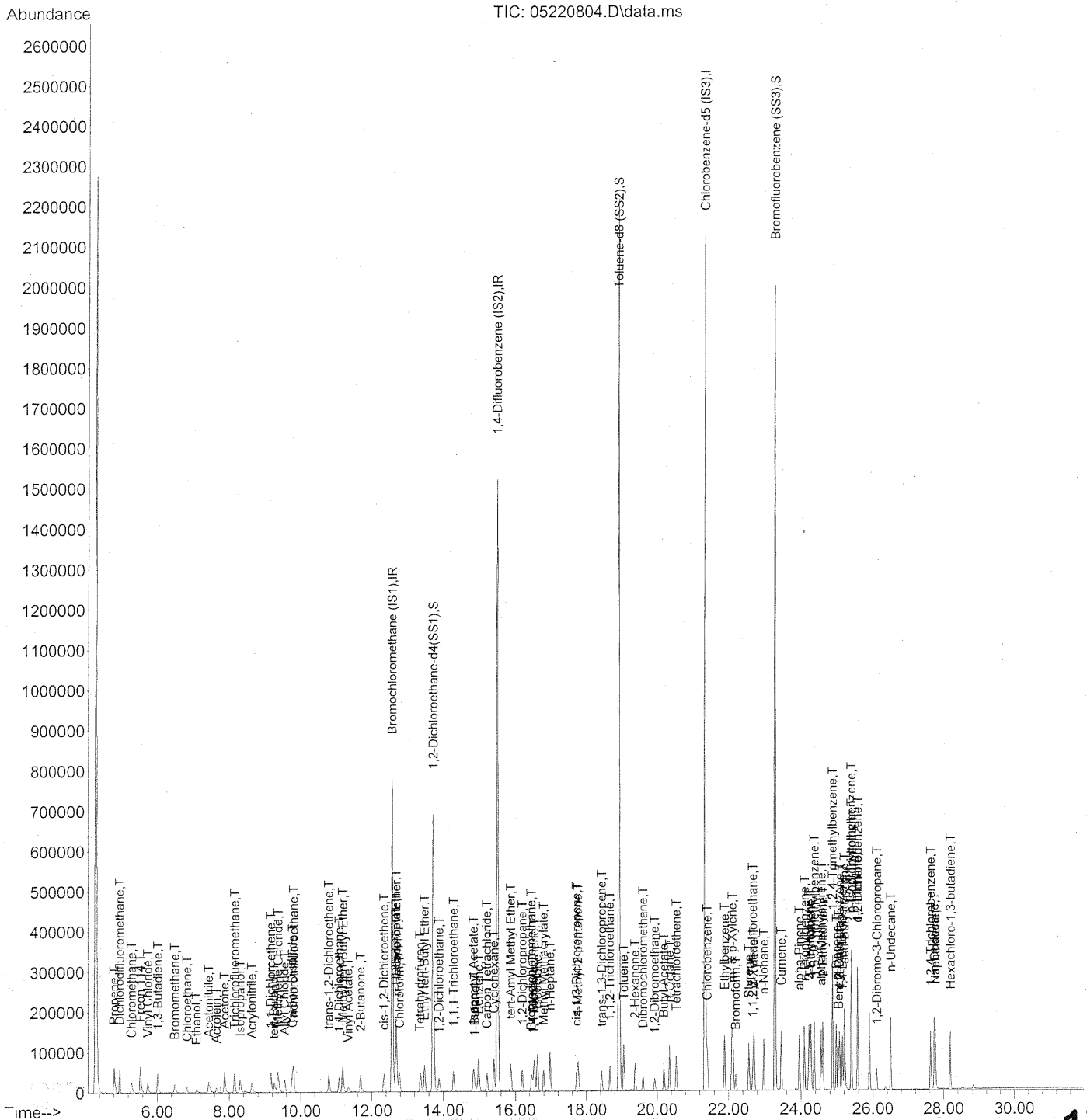
(40) 1-Butanol (T)
 14.888min (+0.011) 0.50ng m
 response 11751

| Ion | Exp% | Act% |
|-------|-------|---------|
| 56.10 | 100 | 100 |
| 41.10 | 92.00 | 143.31# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

ADDED TAILING
 5/22/08
 em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



1728

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220804.D
 Acq On : 22 May 2008 5:18 am
 Operator : RTB
 Sample : 1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 387850 | 25.000 | ng | -0.03 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1717781 | 25.000 | ng | -0.02 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 808909 | 25.000 | ng | -0.01 |

System Monitoring Compounds

| | | | | | | |
|---------------------------------|--------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 693031 | 22.281 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 89.12% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1824190 | 25.160 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 100.64% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 731633 | 29.323 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 117.28% | ✓ |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|--------|-------|----|--------|
| 2) Propene | 4.80 | 42 | 31590 | 0.984 | ng | # 80 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 63836 | 1.091 | ng | 98 |
| 4) Chloromethane | 5.29 | 50 | 44241 | 0.905 | ng | 98 |
| 5) Freon 114 | 5.54 | 135 | 31291 | 1.092 | ng | 100 |
| 6) Vinyl Chloride | 5.74 | 62 | 40614 | 0.892 | ng | 97 |
| 7) 1,3-Butadiene | 6.02 | 54 | 29257 | 0.831 | ng | # 75 |
| 8) Bromomethane | 6.50 | 94 | 21776 | 0.996 | ng | 100 |
| 9) Chloroethane | 6.83 | 64 | 18933 | 1.004 | ng | 94 |
| 10) Ethanol | 7.10 | 45 | 19222m | 0.878 | ng | |
| 11) Acetonitrile | 7.44 | 41 | 55423 | 0.963 | ng | 96 |
| 12) Acrolein | 7.65 | 56 | 14360 | 0.928 | ng | 96 |
| 13) Acetone | 7.87 | 58 | 25772 | 1.200 | ng | # 61 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 51253 | 1.115 | ng | 98 |
| 15) Isopropanol | 8.31 | 45 | 72885m | 1.003 | ng | |
| 16) Acrylonitrile | 8.64 | 53 | 33618 | 1.009 | ng | 90 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 24647 | 1.151 | ng | # 81 |
| 18) tert-Butanol | 9.25 | 59 | 62875 | 1.043 | ng | 92 |
| 19) Methylene Chloride | 9.36 | 84 | 27777 | 1.126 | ng | # 78 |
| 20) Allyl Chloride | 9.55 | 41 | 30378 | 0.922 | ng | 94 |
| 21) Trichlorotrifluoroethane | 9.82 | 151 | 26014 | 1.324 | ng | 94 |
| 22) Carbon Disulfide | 9.78 | 76 | 88300 | 0.966 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 38110 | 1.021 | ng | 79 |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 47132 | 1.085 | ng | 97 |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 77796 | 1.090 | ng | 85 |
| 26) Vinyl Acetate | 11.35 | 86 | 2478 | 0.581 | ng | # 93 |
| 27) 2-Butanone | 11.69 | 72 | 16980 | 1.128 | ng | 99 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 38263 | 1.088 | ng | 86 |
| 29) Diisopropyl Ether | 12.69 | 87 | 18913 | 0.957 | ng | # 84 |
| 30) Ethyl Acetate | 12.69 | 61 | 10672 | 1.137 | ng | 79 |
| 31) n-Hexane | 12.71 | 57 | 46629 | 0.956 | ng | 91 |

1729

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220804.D
 Acq On : 22 May 2008 5:18 am
 Operator : RTB
 Sample : 1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|-------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 46595 | 1.287 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 16796 | 1.115 | ng # | 92 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 27643 | 1.063 | ng # | 77 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 39420 | 1.099 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 45629 | 1.275 | ng | 95 |
| 39) Isopropyl Acetate | 14.84 | 61 | 13612 | 0.871 | ng # | 22 |
| 40) 1-Butanol | 14.87 | 56 | 19777 | 0.844 | ng # | 36 |
| 41) Benzene | 14.97 | 78 | 98158 | 1.077 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 37159 | 1.233 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 39849 | 1.182 | ng # | 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 64909 | 1.001 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 26711 | 1.023 | ng | 97 |
| 46) Bromodichloromethane | 16.45 | 83 | 35298 | 1.139 | ng | 97 |
| 47) Trichloroethene | 16.53 | 130 | 31767 | 1.417 | ng | 100 |
| 48) 1,4-Dioxane | 16.50 | 88 | 19341 | 1.199 | ng # | 77 |
| 49) Isooctane | 16.62 | 57 | 108788 | 1.008 | ng | 79 |
| 50) Methyl Methacrylate | 16.80 | 100 | 8739 | 1.056 | ng # | 82 |
| 51) n-Heptane | 16.98 | 71 | 26789 | 1.061 | ng # | 83 |
| 52) cis-1,3-Dichloropropene | 17.72 | 75 | 35922 | 1.012 | ng | 100 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 24393 | 0.979 | ng | 78 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 33739 | 1.100 | ng | 98 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 24090 | 1.098 | ng | 93 |
| 58) Toluene | 19.06 | 91 | 109766 | 1.205 | ng | 97 |
| 59) 2-Hexanone | 19.37 | 43 | 71227 | 1.050 | ng | 79 |
| 60) Dibromochloromethane | 19.60 | 129 | 29309 | 1.334 | ng | 97 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 29150 | 1.361 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 72888 | 1.074 | ng | 86 |
| 63) n-Octane | 20.35 | 57 | 23440 | 1.098 | ng | 89 |
| 64) Tetrachloroethene | 20.54 | 166 | 31031 | 1.361 | ng | 98 |
| 65) Chlorobenzene | 21.40 | 112 | 75334 | 1.335 | ng | 98 |
| 66) Ethylbenzene | 21.89 | 91 | 123937 | 1.218 | ng | 95 |
| 67) m- & p-Xylene | 22.11 | 91 | 196019 | 2.883 | ng | 90 |
| 68) Bromoform | 22.21 | 173 | 23803 | 1.585 | ng | 98 |
| 69) Styrene | 22.57 | 104 | 71994 | 1.227 | ng | 97 |
| 70) o-Xylene | 22.71 | 91 | 99714 | 1.363 | ng | 92 |
| 71) n-Nonane | 22.98 | 43 | 59725 | 1.019 | ng # | 81 |
| 72) 1,1,2,2-Tetrachloroethane | 22.68 | 83 | 40131 | 1.149 | ng | 95 |
| 74) Cumene | 23.46 | 105 | 119013 | 1.282 | ng | 98 |
| 75) alpha-Pinene | 23.96 | 93 | 59293 | 1.202 | ng | 94 |
| 76) n-Propylbenzene | 24.10 | 91 | 148255 | 1.193 | ng | 98 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 115484 | 1.141 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 124428 | 1.335 | ng | 98 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 104662 | 1.265 | ng | 98 |

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220804.D
 Acq On : 22 May 2008 5:18 am
 Operator : RTB
 Sample : 1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

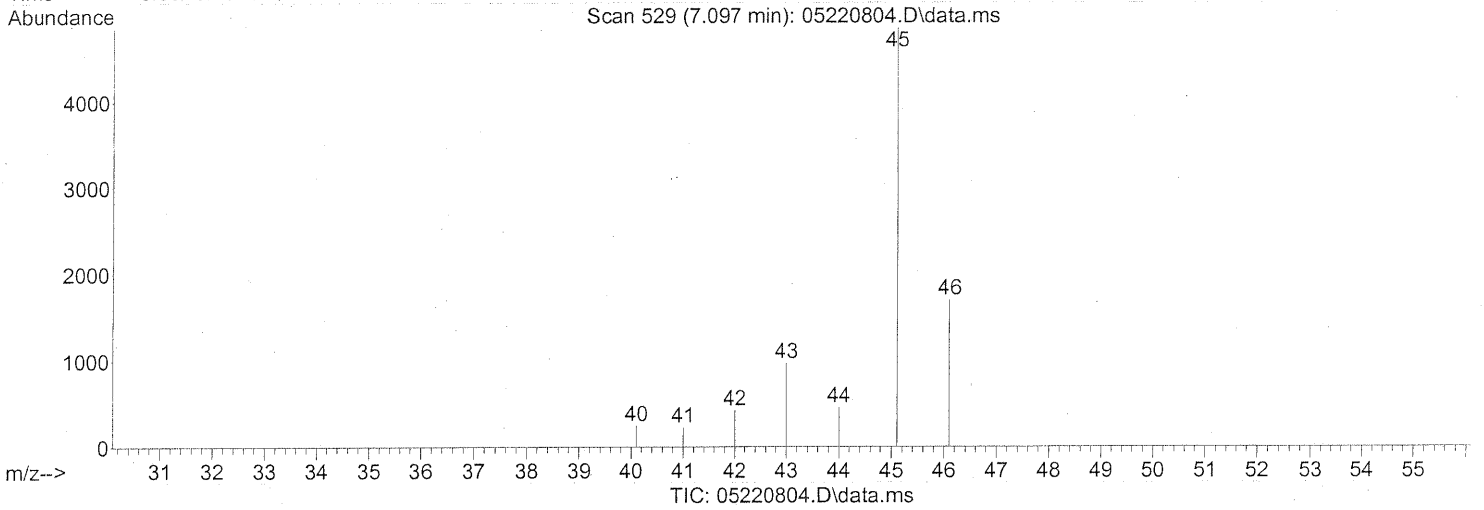
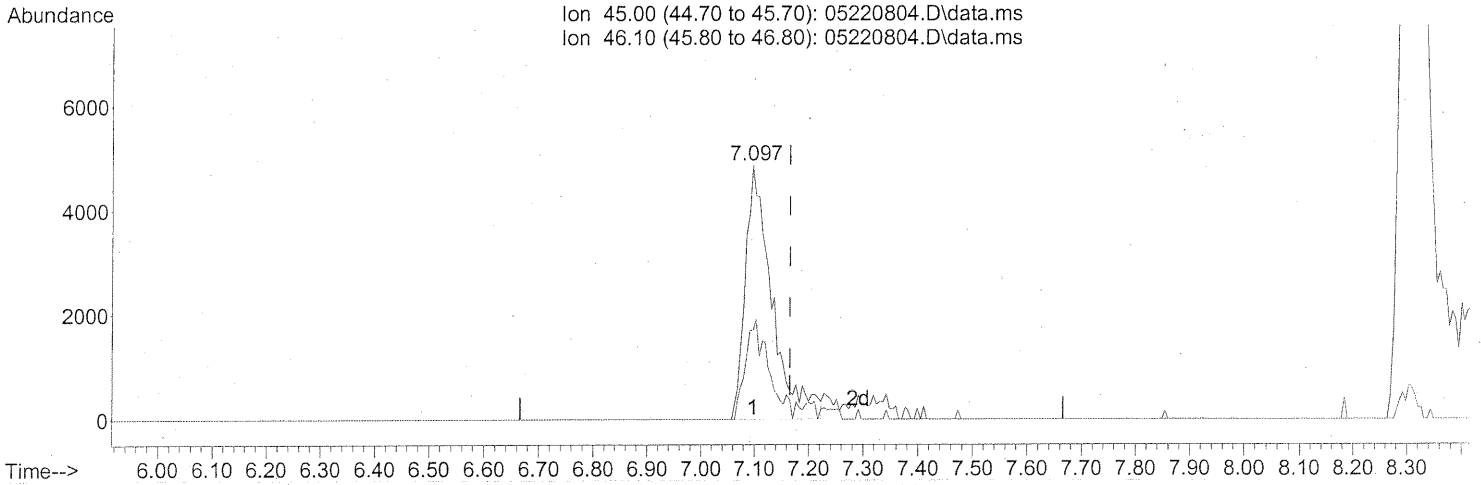
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 51478 | 1.174 | ng | 95 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 118434 | 1.164 | ng | 98 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 108583 | 1.161 | ng | 99 |
| 83) n-Decane | 24.98 | 57 | 55990 | 1.083 | ng | 86 |
| 84) Benzyl Chloride | 25.05 | 91 | 60901 | 0.955 | ng | 93 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 65743 | 1.298 | ng | 96 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 66572 | 1.374 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 137114 | 1.249 | ng | 97 |
| 88) p-Isopropyltoluene | 25.39 | 119 | 125564 | 1.311 | ng | 94 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 106454 | 1.157 | ng | 97 |
| 90) 1,2-Dichlorobenzene | 25.57 | 146 | 64179 | 1.237 | ng | 99 |
| 91) d-Limonene | 25.57 | 68 | 40763 | 0.961 | ng | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 17133 | 1.246 | ng | # 85 |
| 93) n-Undecane | 26.50 | 57 | 59190 | 1.090 | ng | 86 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 46517 | 1.446 | ng | 97 |
| 95) Naphthalene | 27.77 | 128 | 137258 | 1.327 | ng | 97 |
| 96) n-Dodecane | 27.74 | 57 | 58398 | 1.060 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 30742 | 1.484 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Post/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220804.D
 Acq On : 22 May 2008 5:18 am
 Operator : RTB
 Sample : 1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.76ng

response 16650

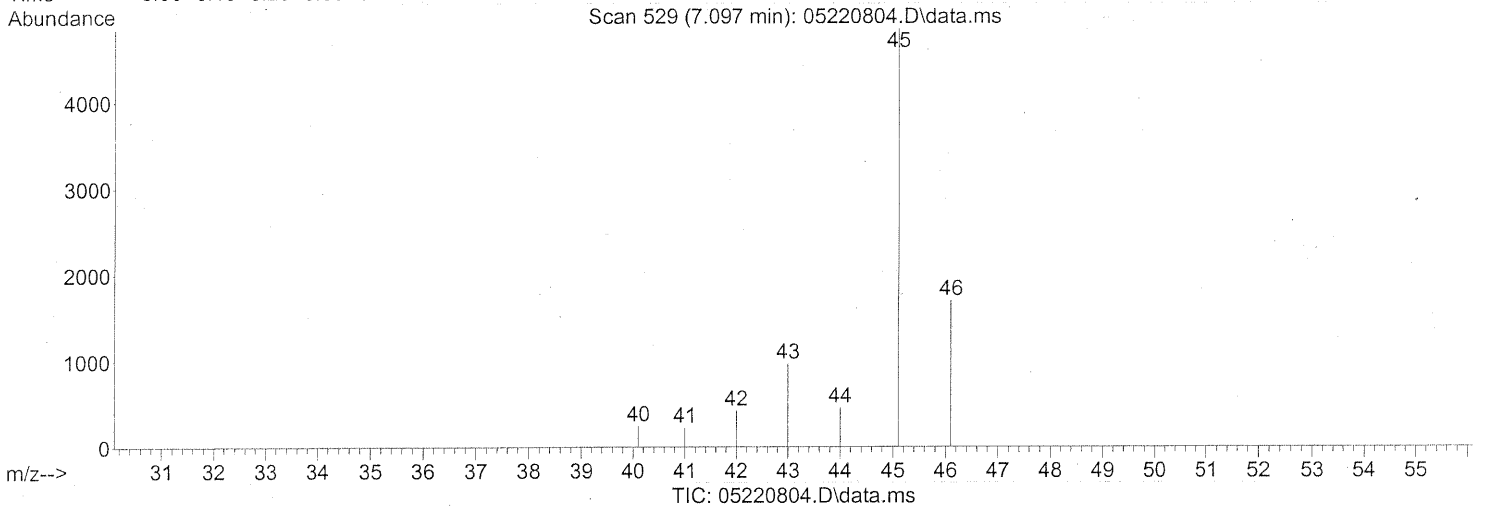
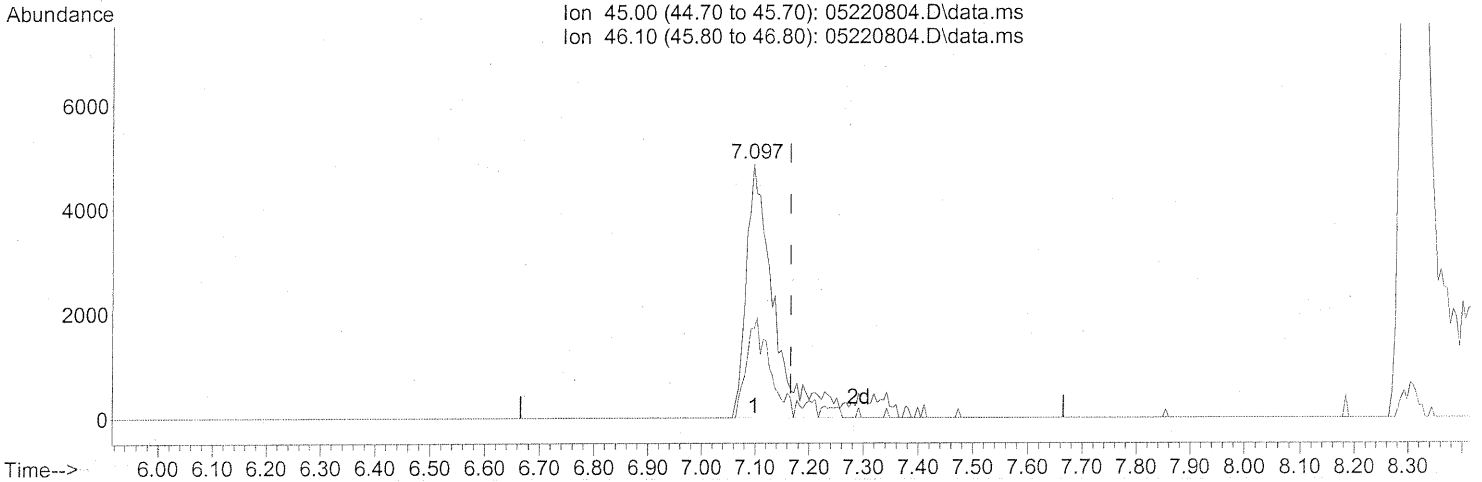
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 34.31 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)
7.097min (-0.069) 0.88ng m
response 19222

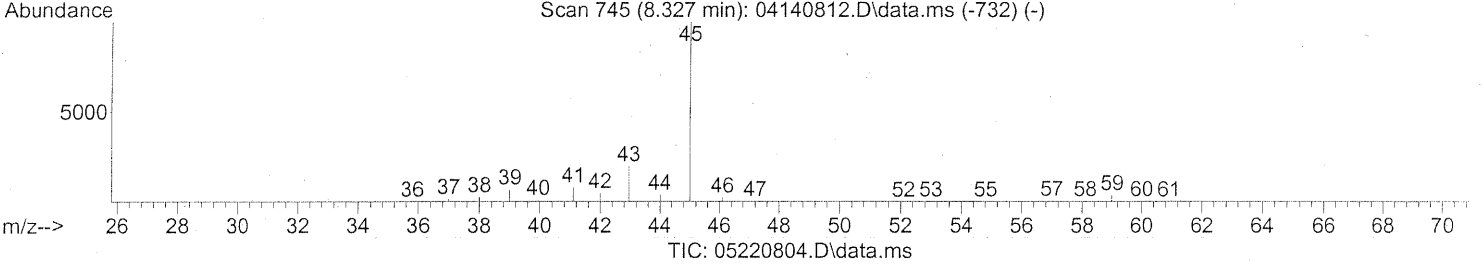
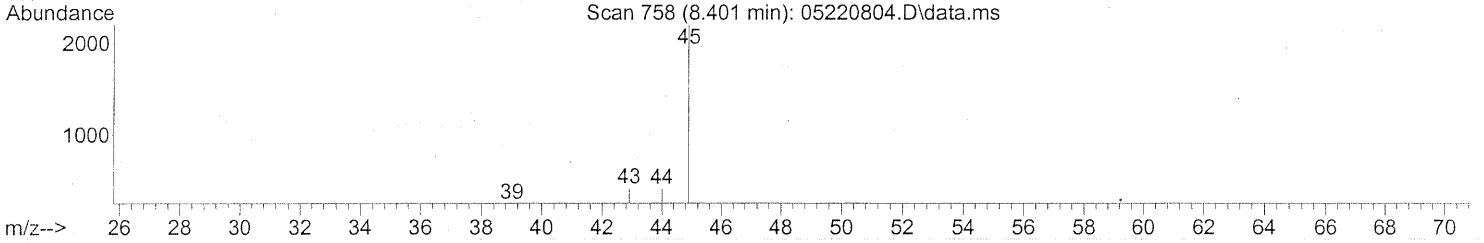
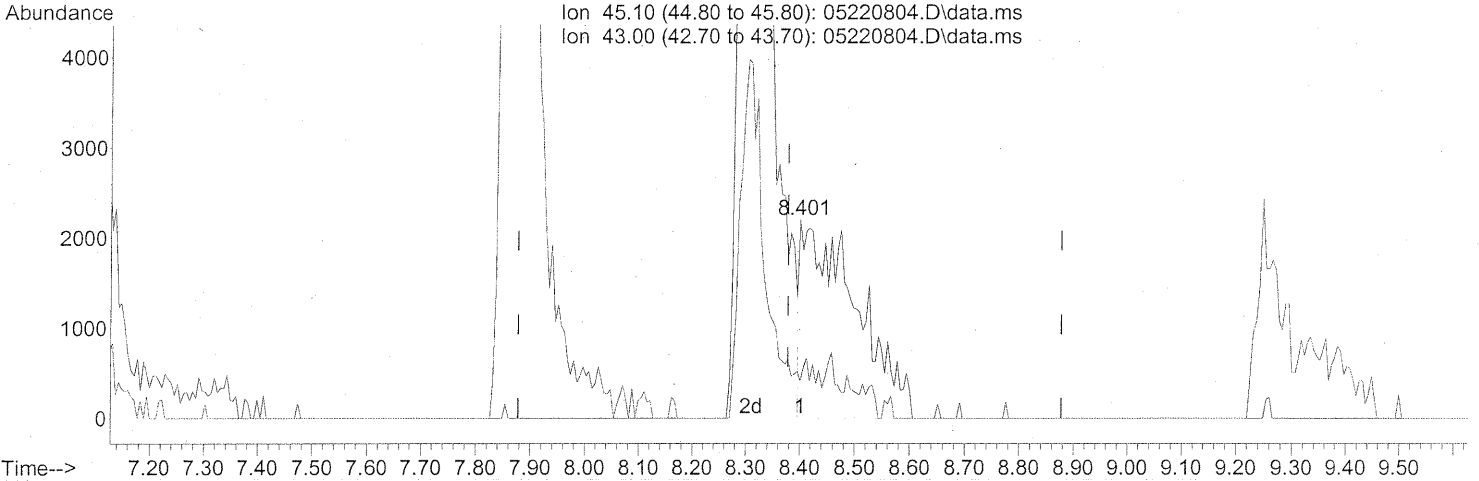
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 29.72 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

ADDED TAILING
5/22/08
EAM 5/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



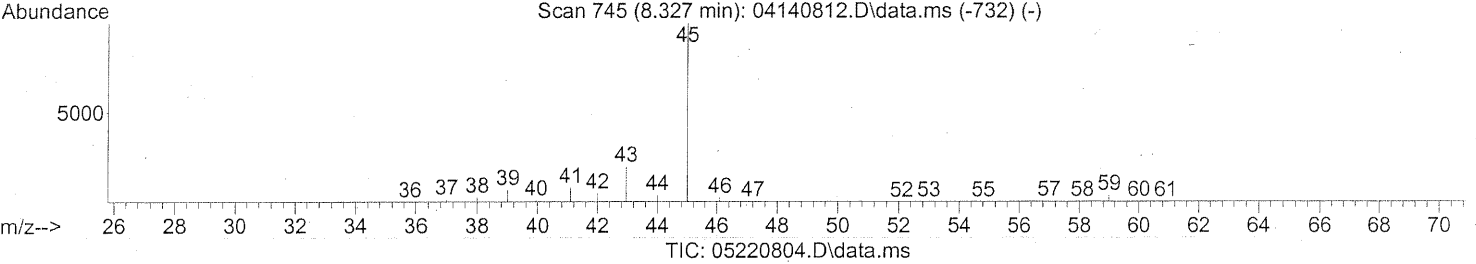
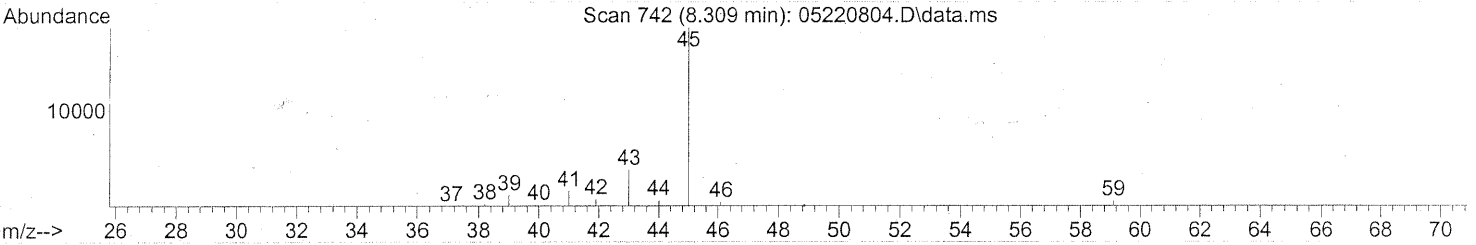
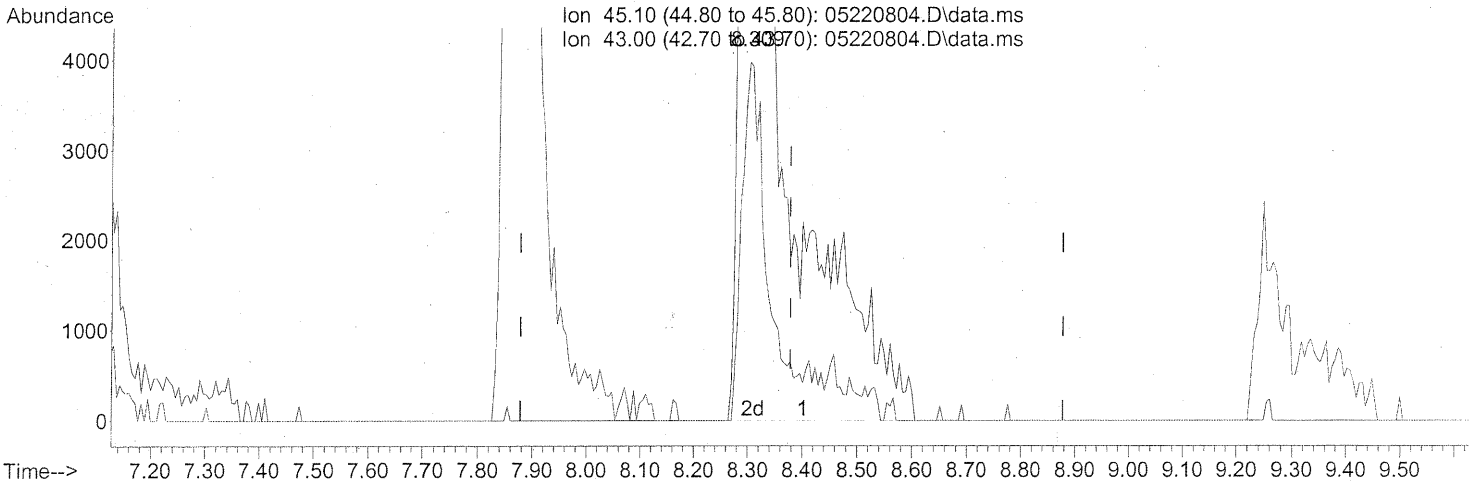
(15) Isopropanol (T)
8.401min (+0.023) 0.21ng
response 15270

| Ion | Exp% | Act% |
|-------|-------|------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 5.21 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

SPLIT PEAK

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18 am
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



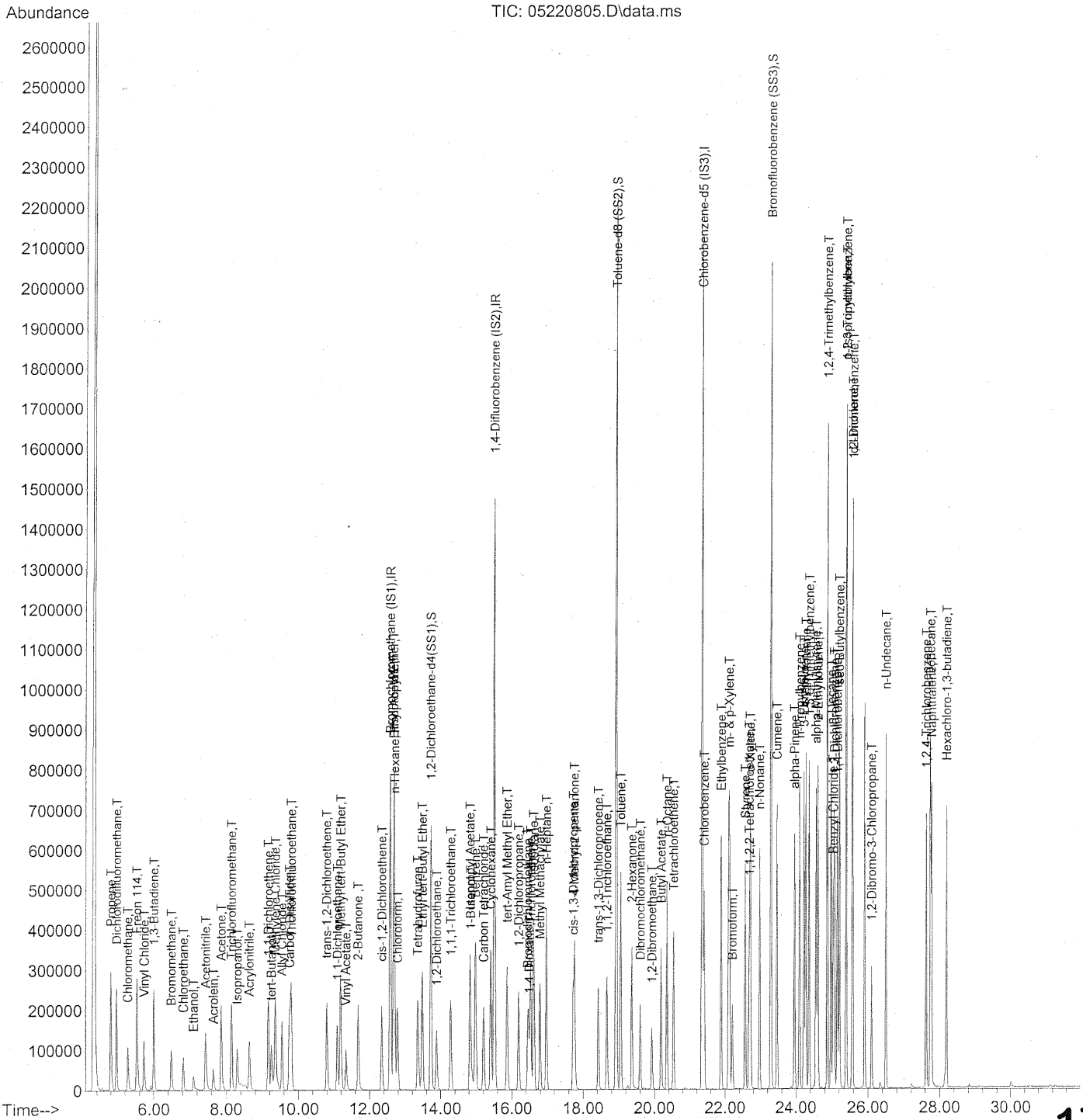
(15) Isopropanol (T)
8.309min (-0.068) 1.00ng m
response 72885

| Ion | Exp% | Act% |
|-------|-------|------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 1.09 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

INT: THE WHOLE PEAK
8/05/22/08
em 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220805.D
 Acq On : 22 May 2008 5:58 am
 Operator : RTB
 Sample : 5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220805.D
 Acq On : 22 May 2008 5:58 am
 Operator : RTB
 Sample : 5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 392159 | 25.000 | ng | -0.02 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1692913 | 25.000 | ng | -0.02 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 804687 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---------------------------------|--------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 670984 | 21.335 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 85.36% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1810051 | 25.096 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.40% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 741734 | 29.884 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 119.52% | ✓ |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|--------|-------|----|--------|
| 2) Propene | 4.80 | 42 | 143507 | 4.421 | ng | 87 |
| 3) Dichlorodifluoromethane | 4.96 | 85 | 277418 | 4.688 | ng | 99 |
| 4) Chloromethane | 5.28 | 50 | 161479 | 3.265 | ng | 96 |
| 5) Freon 114 | 5.53 | 135 | 137052 | 4.730 | ng | 100 |
| 6) Vinyl Chloride | 5.73 | 62 | 174777 | 3.797 | ng | 96 |
| 7) 1,3-Butadiene | 6.00 | 54 | 142395 | 4.001 | ng | # 77 |
| 8) Bromomethane | 6.49 | 94 | 95601 | 4.327 | ng | 99 |
| 9) Chloroethane | 6.82 | 64 | 85760 | 4.498 | ng | 94 |
| 10) Ethanol | 7.10 | 45 | 81383m | 3.677 | ng | |
| 11) Acetonitrile | 7.43 | 41 | 254835 | 4.381 | ng | 96 |
| 12) Acrolein | 7.65 | 56 | 63562 | 4.064 | ng | 98 |
| 13) Acetone | 7.86 | 58 | 102750 | 4.733 | ng | # 56 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 236616 | 5.089 | ng | 97 |
| 15) Isopropanol | 8.30 | 45 | 286440 | 3.899 | ng | 97 |
| 16) Acrylonitrile | 8.63 | 53 | 152877 | 4.539 | ng | 99 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 113381 | 5.236 | ng | # 77 |
| 18) tert-Butanol | 9.24 | 59 | 279157 | 4.582 | ng | 92 |
| 19) Methylene Chloride | 9.36 | 84 | 118026 | 4.733 | ng | 84 |
| 20) Allyl Chloride | 9.54 | 41 | 160353 | 4.813 | ng | 97 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 115537 | 5.816 | ng | 94 |
| 22) Carbon Disulfide | 9.76 | 76 | 404136 | 4.371 | ng | 97 |
| 23) trans-1,2-Dichloroethene | 10.79 | 61 | 178894 | 4.740 | ng | 83 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 212706 | 4.842 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 356345 | 4.939 | ng | 86 |
| 26) Vinyl Acetate | 11.34 | 86 | 15989 | 3.707 | ng | # 92 |
| 27) 2-Butanone | 11.67 | 72 | 79090 | 5.195 | ng | 98 |
| 28) cis-1,2-Dichloroethene | 12.34 | 61 | 170613 | 4.797 | ng | 85 |
| 29) Diisopropyl Ether | 12.68 | 87 | 89599 | 4.483 | ng | # 88 |
| 30) Ethyl Acetate | 12.68 | 61 | 49302 | 5.195 | ng | 81 |
| 31) n-Hexane | 12.70 | 57 | 219324 | 4.447 | ng | 89 |

1737

Pos/22/04

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220805.D
 Acq On : 22 May 2008 5:58 am
 Operator : RTB
 Sample : 5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 211901 | 5.787 | ng | 97 |
| 34) Tetrahydrofuran | 13.35 | 72 | 76042 | 4.994 | ng | 95 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 129652 | 4.932 | ng # | 75 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 177196 | 4.886 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 199328 | 5.651 | ng | 97 |
| 39) Isopropyl Acetate | 14.83 | 61 | 69941 | 4.543 | ng # | 33 |
| 40) 1-Butanol | 14.84 | 56 | 100264 | 4.339 | ng # | 54 |
| 41) Benzene | 14.98 | 78 | 450320 | 5.014 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 174878 | 5.888 | ng | 98 |
| 43) Cyclohexane | 15.41 | 84 | 176057 | 5.299 | ng # | 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 311528 | 4.875 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.19 | 63 | 118558 | 4.607 | ng | 96 |
| 46) Bromodichloromethane | 16.45 | 83 | 164042 | 5.372 | ng | 99 |
| 47) Trichloroethene | 16.54 | 130 | 135766 | 6.144 | ng | 98 |
| 48) 1,4-Dioxane | 16.49 | 88 | 89293 | 5.616 | ng | 81 |
| 49) Isooctane | 16.62 | 57 | 489147 | 4.600 | ng | 77 |
| 50) Methyl Methacrylate | 16.79 | 100 | 44906 | 5.506 | ng | 90 |
| 51) n-Heptane | 16.98 | 71 | 124058 | 4.986 | ng # | 79 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 175145 | 5.006 | ng | 97 |
| 53) 4-Methyl-2-pentanone | 17.76 | 58 | 117483 | 4.783 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 170691 | 5.647 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 112834 | 5.217 | ng | 99 |
| 58) Toluene | 19.06 | 91 | 502050 | 5.540 | ng | 97 |
| 59) 2-Hexanone | 19.37 | 43 | 341240 | 5.055 | ng | 80 |
| 60) Dibromochloromethane | 19.60 | 129 | 141184 | 6.460 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 133769 | 6.278 | ng | 100 |
| 62) Butyl Acetate | 20.19 | 43 | 350603 | 5.194 | ng | 85 |
| 63) n-Octane | 20.35 | 57 | 105392 | 4.962 | ng | 90 |
| 64) Tetrachloroethene | 20.55 | 166 | 144016 | 6.347 | ng | 99 |
| 65) Chlorobenzene | 21.41 | 112 | 340277 | 6.062 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 581871 | 5.751 | ng | 94 |
| 67) m- & p-Xylene | 22.12 | 91 | 919031 | 13.587 | ng | 91 |
| 68) Bromoform | 22.21 | 173 | 126010 | 8.433 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 348304 | 5.967 | ng | 98 |
| 70) o-Xylene | 22.71 | 91 | 470480 | 6.463 | ng | 93 |
| 71) n-Nonane | 22.98 | 43 | 288186 | 4.944 | ng # | 82 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 210731 | 6.066 | ng | 97 |
| 74) Cumene | 23.46 | 105 | 554593 | 6.006 | ng | 100 |
| 75) alpha-Pinene | 23.96 | 93 | 281388 | 5.733 | ng | 93 |
| 76) n-Propylbenzene | 24.10 | 91 | 701092 | 5.673 | ng | 97 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 562110 | 5.583 | ng | 98 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 597609 | 6.446 | ng | 99 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 503181 | 6.111 | ng | 98 |

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 261042 | 5.987 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 571215 | 5.644 | ng | 99 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 530732 | 5.705 | ng | 98 |
| 83) n-Decane | 24.98 | 57 | 280459 | 5.451 | ng | 86 |
| 84) Benzyl Chloride | 25.04 | 91 | 355075 | 5.599 | ng | 97 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 317586 | 6.305 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 320921 | 6.658 | ng | 100 |
| 87) sec-Butylbenzene | 25.21 | 105 | 669348 | 6.128 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 609096 | 6.394 | ng | 94 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 526166 | 5.751 | ng | 98 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 311311 | 6.031 | ng | 100 |
| 91) d-Limonene | 25.57 | 68 | 203342 | 4.820 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.10 | 157 | 96726 | 7.073 | ng | 88 |
| 93) n-Undecane | 26.50 | 57 | 295284 | 5.467 | ng | 85 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 226237 | 7.072 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 674861 | 6.561 | ng | 98 |
| 96) n-Dodecane | 27.74 | 57 | 288982 | 5.273 | ng | 83 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 150775 | 7.319 | ng | 100 |

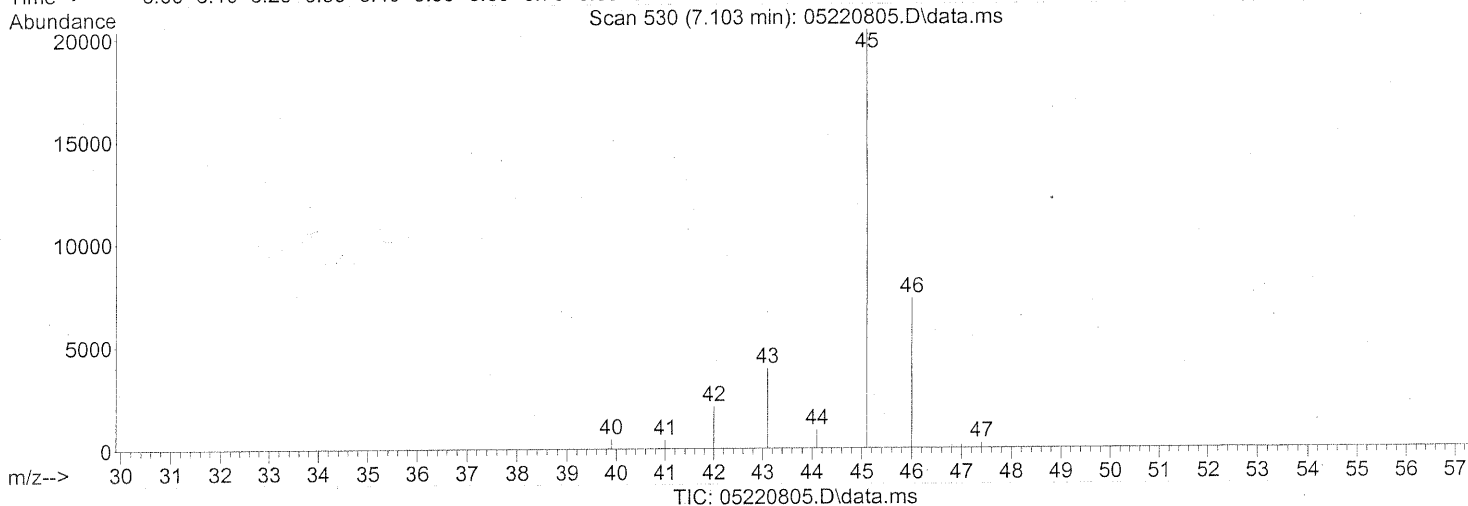
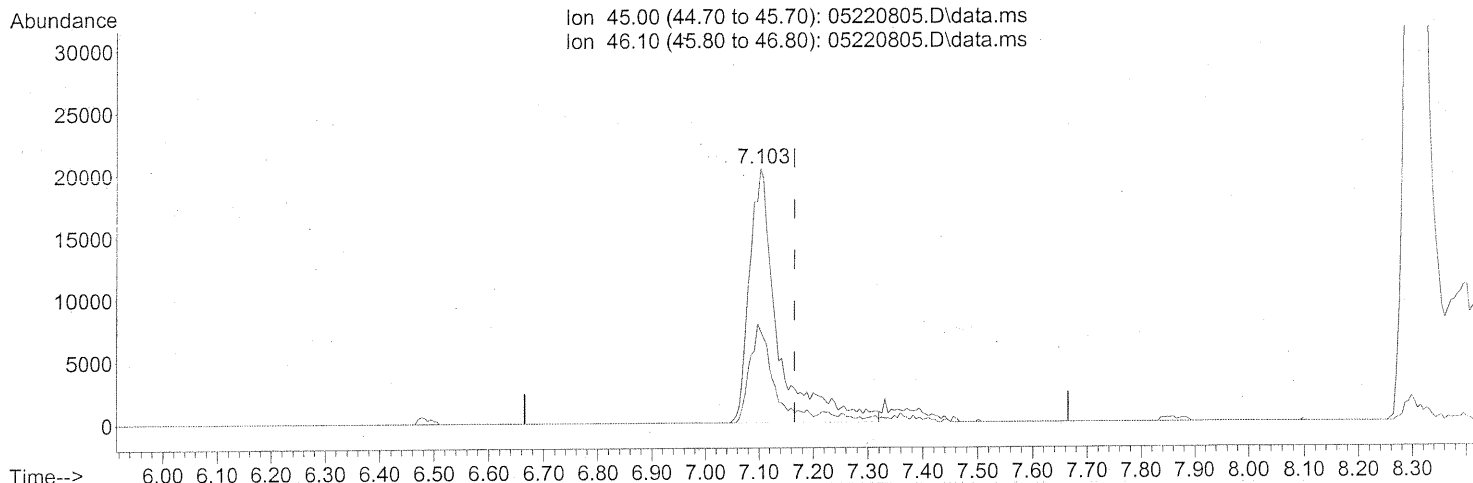
(#) = qualifier out of range (m) = manual integration (+) = signals summed

05/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220805.D
 Acq On : 22 May 2008 5:58 am
 Operator : RTB
 Sample : 5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:22 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.063) 3.40ng

response 75261

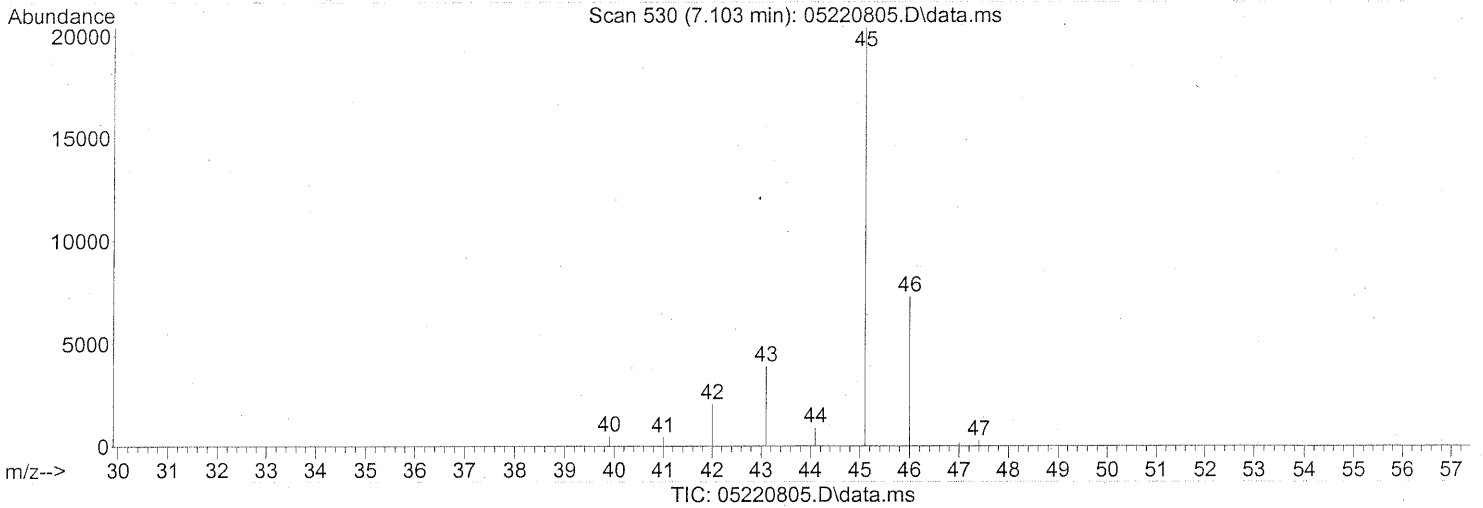
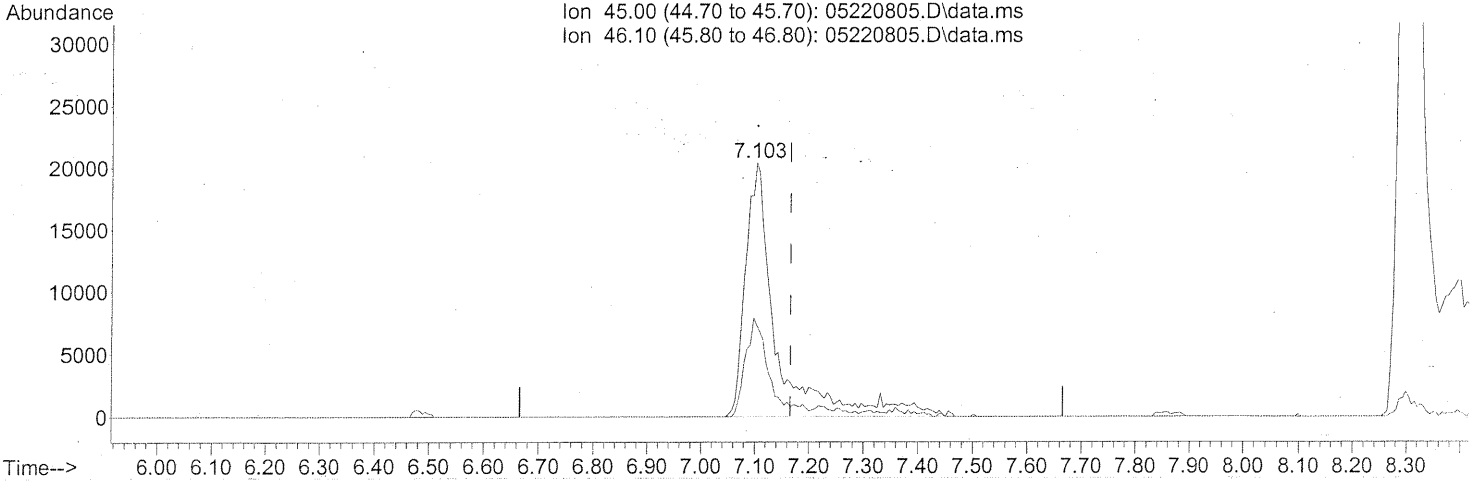
| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 32.13 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58 am
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:22 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue Apr 15 06:47:20 2008
Response via : Initial Calibration



(10) Ethanol (T)
7.103min (-0.063) 3.68ng m
response 81383

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 29.71 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

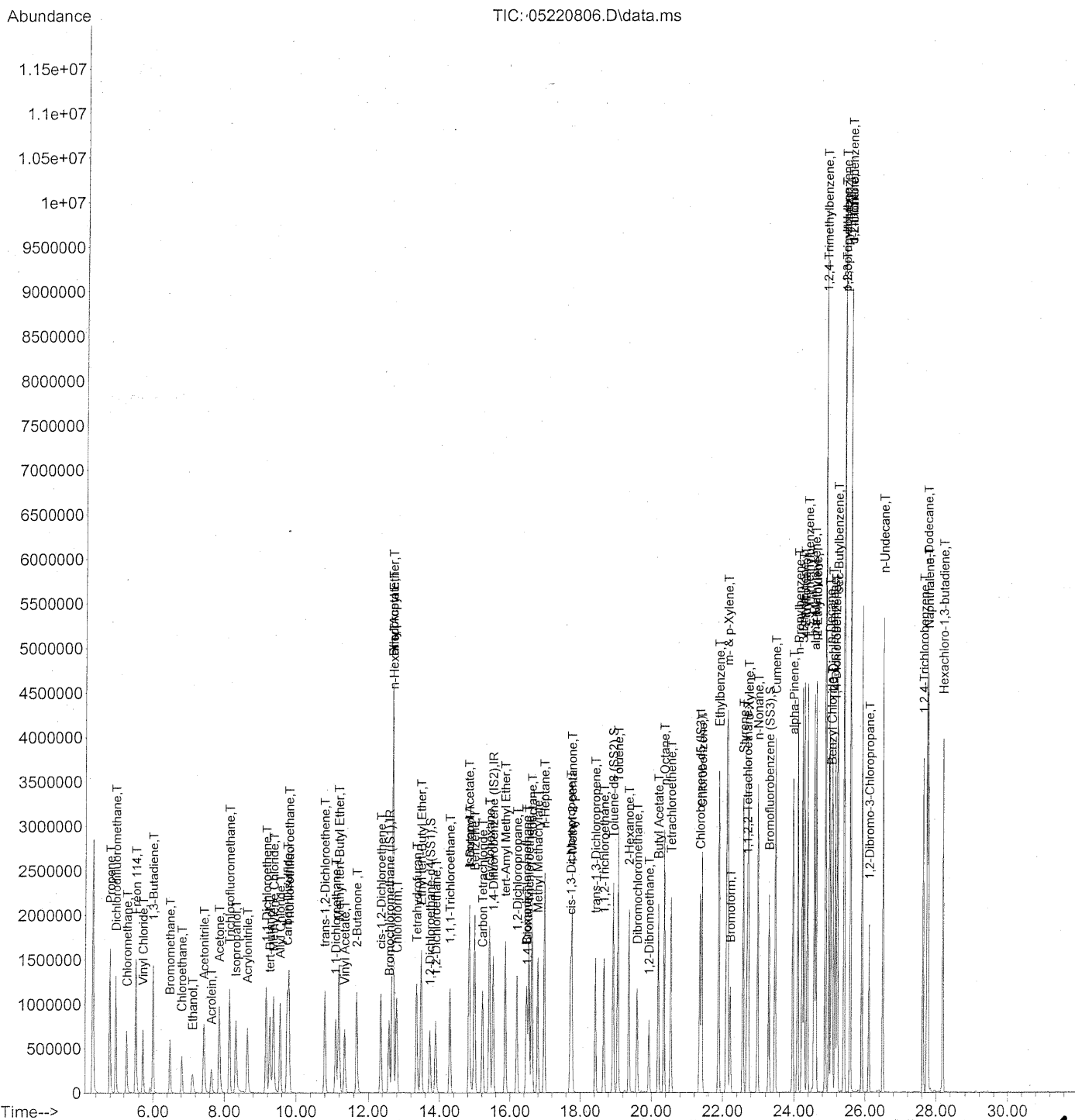
ADDED TAILING

8/05/22/08

Rem 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220806.D
 Acq On : 22 May 2008 6:39 am
 Operator : RTB
 Sample : 25ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220806.D
 Acq On : 22 May 2008 6:39 am
 Operator : RTB
 Sample : 25ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 416973 | 25.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 1789357 | 25.000 | ng | -0.01 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 864655 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|-------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 715546 | 21.398 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 85.60% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1925065 | 24.839 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.36% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 804956 | 30.182 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 120.72% | ✓ |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 762505 | 22.094 | ng | 88 |
| 3) Dichlorodifluoromethane | 4.96 | 85 | 1436855 | 22.837 | ng | 100 |
| 4) Chloromethane | 5.28 | 50 | 991714 | 18.861 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 719512 | 23.356 | ng | 99 |
| 6) Vinyl Chloride | 5.72 | 62 | 949617 | 19.405 | ng | 96 |
| 7) 1,3-Butadiene | 6.00 | 54 | 813723 | 21.504 | ng | # 77 |
| 8) Bromomethane | 6.48 | 94 | 536830 | 22.849 | ng | 99 |
| 9) Chloroethane | 6.82 | 64 | 460399 | 22.709 | ng | 96 |
| 10) Ethanol | 7.12 | 45 | 452905 | 19.243 | ng | 96 |
| 11) Acetonitrile | 7.43 | 41 | 1312976 | 21.227 | ng | 96 |
| 12) Acrolein | 7.64 | 56 | 365766 | 21.992 | ng | 99 |
| 13) Acetone | 7.86 | 58 | 543405 | 23.543 | ng | # 59 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1261154 | 25.511 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 1744228 | 22.331 | ng | 95 |
| 16) Acrylonitrile | 8.64 | 53 | 877116 | 24.490 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 615935 | 26.749 | ng | # 81 |
| 18) tert-Butanol | 9.26 | 59 | 1602928 | 24.744 | ng | 90 |
| 19) Methylene Chloride | 9.36 | 84 | 639063 | 24.103 | ng | 84 |
| 20) Allyl Chloride | 9.55 | 41 | 987824 | 27.887 | ng | 99 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 618296 | 29.270 | ng | 96 |
| 22) Carbon Disulfide | 9.76 | 76 | 2212349 | 22.504 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 980658 | 24.435 | ng | 84 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1145632 | 24.528 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 1917321 | 24.994 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 116272 | 25.354 | ng | # 96 |
| 27) 2-Butanone | 11.68 | 72 | 443899 | 27.424 | ng | 97 |
| 28) cis-1,2-Dichloroethene | 12.36 | 61 | 935518 | 24.736 | ng | 84 |
| 29) Diisopropyl Ether | 12.69 | 87 | 495247 | 23.302 | ng | # 88 |
| 30) Ethyl Acetate | 12.69 | 61 | 281602 | 27.909 | ng | 79 |
| 31) n-Hexane | 12.70 | 57 | 1215561 | 23.179 | ng | 90 |

1743

5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220806.D
 Acq On : 22 May 2008 6:39 am
 Operator : RTB
 Sample : 25ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.80 | 83 | 1136032 | 29.181 | ng | 100 |
| 34) Tetrahydrofuran | 13.36 | 72 | 425202 | 26.263 | ng | 94 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 718287 | 25.700 | ng | # 76 |
| 36) 1,2-Dichloroethane | 13.90 | 62 | 955069 | 24.770 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1053711 | 28.261 | ng | 97 |
| 39) Isopropyl Acetate | 14.83 | 61 | 411835 | 25.310 | ng | # 42 |
| 40) 1-Butanol | 14.84 | 56 | 603998 | 24.731 | ng | # 59 |
| 41) Benzene | 14.99 | 78 | 2468333 | 26.003 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 972741 | 30.984 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 951654 | 27.102 | ng | # 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1717895 | 25.432 | ng | 93 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 656264 | 24.125 | ng | 98 |
| 46) Bromodichloromethane | 16.46 | 83 | 892908 | 27.666 | ng | 99 |
| 47) Trichloroethene | 16.54 | 130 | 717464 | 30.721 | ng | 100 |
| 48) 1,4-Dioxane | 16.49 | 88 | 488486 | 29.064 | ng | 81 |
| 49) Isooctane | 16.62 | 57 | 2708375 | 24.098 | ng | 79 |
| 50) Methyl Methacrylate | 16.79 | 100 | 259495 | 30.103 | ng | 89 |
| 51) n-Heptane | 16.98 | 71 | 690272 | 26.248 | ng | # 79 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 994088 | 26.881 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 666973 | 25.688 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 1001703 | 31.356 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 615078 | 26.907 | ng | 98 |
| 58) Toluene | 19.07 | 91 | 2757560 | 28.319 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 1934323 | 26.668 | ng | 82 |
| 60) Dibromochloromethane | 19.60 | 129 | 806828 | 34.355 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 733584 | 32.043 | ng | 100 |
| 62) Butyl Acetate | 20.19 | 43 | 2047043 | 28.223 | ng | 86 |
| 63) n-Octane | 20.35 | 57 | 600585 | 26.315 | ng | 90 |
| 64) Tetrachloroethene | 20.55 | 166 | 798091 | 32.735 | ng | 99 |
| 65) Chlorobenzene | 21.41 | 112 | 1853589 | 30.734 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 3251306 | 29.903 | ng | 94 |
| 67) m- & p-Xylene | 22.13 | 91 | 5254327 | 72.293 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 742658 | 46.253 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 1998118 | 31.854 | ng | 97 |
| 70) o-Xylene | 22.72 | 91 | 2640019 | 33.753 | ng | 93 |
| 71) n-Nonane | 22.98 | 43 | 1643415 | 26.237 | ng | # 82 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 1205766 | 32.301 | ng | 97 |
| 74) Cumene | 23.47 | 105 | 3116293 | 31.410 | ng | 100 |
| 75) alpha-Pinene | 23.97 | 93 | 1613330 | 30.592 | ng | 95 |
| 76) n-Propylbenzene | 24.10 | 91 | 4011480 | 30.210 | ng | 98 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3283639 | 30.351 | ng | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3333214 | 33.460 | ng | 99 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 2850246 | 32.216 | ng | 99 |

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220806.D
 Acq On : 22 May 2008 6:39 am
 Operator : RTB
 Sample : 25ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Tue Apr 15 06:47:20 2008
 Response via : Initial Calibration

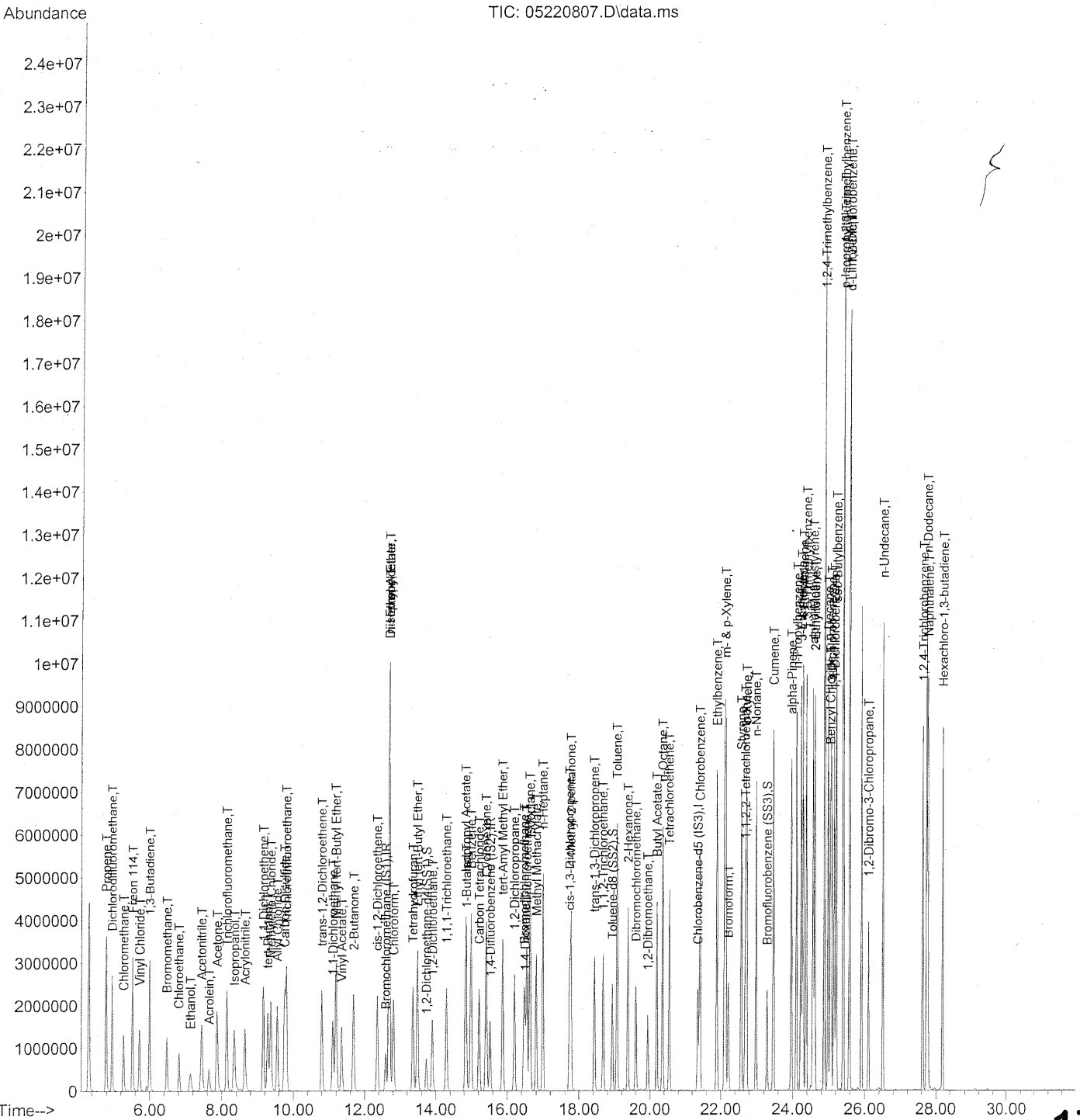
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1552921 | 33.146 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3255355 | 29.932 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 3101955 | 31.029 | ng | 99 |
| 83) n-Decane | 24.99 | 57 | 1623112 | 29.359 | ng | 86 |
| 84) Benzyl Chloride | 25.05 | 91 | 2339844 | 34.336 | ng | 98 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1810597 | 33.455 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1821585 | 35.171 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 3795451 | 32.337 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3608029 | 35.250 | ng | 95 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 3070241 | 31.230 | ng | 99 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1780747 | 32.105 | ng | 99 |
| 91) d-Limonene | 25.58 | 68 | 1230457 | 27.146 | ng | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 591373 | 40.245 | ng | 91 |
| 93) n-Undecane | 26.50 | 57 | 1720154 | 29.636 | ng | 85 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1310788 | 38.132 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 3956580 | 35.798 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1737723 | 29.508 | ng | 83 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 850097 | 38.402 | ng | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Pos 12/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220807.D
 Acq On : 22 May 2008 7:20 am
 Operator : RTB
 Sample : 50ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:13:27 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 454188 | 25.000 | ng | 0.01 |
| 37) 1,4-Difluorobenzene (IS2) | 15.53 | 114 | 1924432 | 25.000 | ng | 0.01 |
| 56) Chlorobenzene-d5 (IS3) | 21.36 | 82 | 936145 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.74 | 65 | 765682 | 23.208 | ng | 0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 92.84% | ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2057293 | 24.538 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 98.16% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 864419 | 26.619 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 106.48% | ✓ |

Target Compounds

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 1702217 | 45.626 | ng | 90 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 2981591 | 43.773 | ng | 100 |
| 4) Chloromethane | 5.27 | 50 | 1894393 | 39.547 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 1511964 | 44.647 | ng | 99 |
| 6) Vinyl Chloride | 5.71 | 62 | 1982331 | 42.843 | ng | 96 |
| 7) 1,3-Butadiene | 5.99 | 54 | 1751847 | 50.034 | ng | # 78 |
| 8) Bromomethane | 6.48 | 94 | 1147873 | 45.701 | ng | 99 |
| 9) Chloroethane | 6.81 | 64 | 984146 | 46.080 | ng | 95 |
| 10) Ethanol | 7.14 | 45 | 980730 | 40.554 | ng | 95 |
| 11) Acetonitrile | 7.44 | 41 | 2851538 | 40.927 | ng | 97 |
| 12) Acrolein | 7.65 | 56 | 792345 | 45.513 | ng | 99 |
| 13) Acetone | 7.87 | 58 | 1155032 | 38.351 | ng | # 62 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 2653036 | 46.367 | ng | 100 |
| 15) Isopropanol | 8.34 | 45 | 3422080m | 42.083 | ng | |
| 16) Acrylonitrile | 8.65 | 53 | 1880949 | 49.196 | ng | 99 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 1316988 | 52.309 | ng | # 79 |
| 18) tert-Butanol | 9.28 | 59 | 3398574 | 47.307 | ng | 91 |
| 19) Methylene Chloride | 9.37 | 84 | 1352050 | 48.646 | ng | 83 |
| 20) Allyl Chloride | 9.55 | 41 | 2169612 | 57.961 | ng | 99 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 1321714 | 51.616 | ng | 95 |
| 22) Carbon Disulfide | 9.76 | 76 | 4679422 | 43.497 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 2084796 | 49.585 | ng | 85 |
| 24) 1,1-Dichloroethane | 11.11 | 63 | 2435183 | 49.685 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 4047308 | 49.630 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 257899 | 61.046 | ng | # 96 |
| 27) 2-Butanone | 11.69 | 72 | 939216 | 51.447 | ng | 94 |
| 28) cis-1,2-Dichloroethene | 12.36 | 61 | 1976621 | 49.333 | ng | 85 |
| 29) Diisopropyl Ether | 12.69 | 87 | 1062905 | 45.266 | ng | # 90 |
| 30) Ethyl Acetate | 12.70 | 61 | 620656 | 58.156 | ng | 79 |
| 31) n-Hexane | 12.70 | 57 | 2606180 | 48.376 | ng | 90 |

1747

05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220807.D
 Acq On : 22 May 2008 7:20 am
 Operator : RTB
 Sample : 50ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:13:27 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 32) Chloroform | 12.81 | 83 | 2387290 | 56.390 | ng | 100 |
| 34) Tetrahydrofuran | 13.36 | 72 | 873088 | 49.555 | ng | 93 |
| 35) Ethyl tert-Butyl Ether | 13.49 | 87 | 1519912 | 49.016 | ng | # 76 |
| 36) 1,2-Dichloroethane | 13.90 | 62 | 1967827 | 47.558 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.30 | 97 | 2208142 | 50.337 | ng | 97 |
| 39) Isopropyl Acetate | 14.84 | 61 | 873634 | 52.133 | ng | # 45 |
| 40) 1-Butanol | 14.86 | 56 | 1313131 | 50.723 | ng | # 64 |
| 41) Benzene | 14.99 | 78 | 5181804 | 50.503 | ng | 99 |
| 42) Carbon Tetrachloride | 15.22 | 117 | 2050221 | 53.356 | ng | 99 |
| 43) Cyclohexane | 15.42 | 84 | 1998084 | 50.165 | ng | # 76 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 3643868 | 49.255 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 1384060 | 49.886 | ng | 99 |
| 46) Bromodichloromethane | 16.47 | 83 | 1894467 | 54.264 | ng | 100 |
| 47) Trichloroethene | 16.54 | 130 | 1496111 | 48.844 | ng | 100 |
| 48) 1,4-Dioxane | 16.50 | 88 | 1034911 | 53.471 | ng | 81 |
| 49) Isooctane | 16.63 | 57 | 5664489 | 47.276 | ng | 79 |
| 50) Methyl Methacrylate | 16.81 | 100 | 547862 | 55.294 | ng | 89 |
| 51) n-Heptane | 16.99 | 71 | 1437618 | 52.152 | ng | # 80 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 2107625 | 51.402 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 1415573 | 51.262 | ng | 81 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 2143285 | 60.836 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 1292274 | 51.574 | ng | 98 |
| 58) Toluene | 19.07 | 91 | 5764092 | 50.193 | ng | 99 |
| 59) 2-Hexanone | 19.38 | 43 | 4048530 | 50.407 | ng | 83 |
| 60) Dibromochloromethane | 19.61 | 129 | 1698069 | 56.848 | ng | 98 |
| 61) 1,2-Dibromoethane | 19.94 | 107 | 1545522 | 53.027 | ng | 100 |
| 62) Butyl Acetate | 20.19 | 43 | 4286534 | 52.669 | ng | 87 |
| 63) n-Octane | 20.36 | 57 | 1281368 | 49.489 | ng | 90 |
| 64) Tetrachloroethene | 20.55 | 166 | 1678655 | 51.147 | ng | 99 |
| 65) Chlorobenzene | 21.42 | 112 | 3910630 | 51.780 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 6762491 | 51.250 | ng | 95 |
| 67) m- & p-Xylene | 22.13 | 91 | 10953492 | 121.782 | ng | 93 |
| 68) Bromoform | 22.21 | 173 | 1568481 | 71.574 | ng | 99 |
| 69) Styrene | 22.58 | 104 | 4217026 | 54.221 | ng | 97 |
| 70) o-Xylene | 22.72 | 91 | 5530335 | 57.451 | ng | 94 |
| 71) n-Nonane | 22.99 | 43 | 3423415 | 49.404 | ng | # 83 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 2573642 | 63.796 | ng | 98 |
| 74) Cumene | 23.47 | 105 | 6524352 | 51.467 | ng | 98 |
| 75) alpha-Pinene | 23.97 | 93 | 3448151 | 52.529 | ng | 96 |
| 76) n-Propylbenzene | 24.11 | 91 | 8176336 | 50.385 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 6910758 | 51.365 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 6763625 | 53.268 | ng | 99 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 5917484 | 51.578 | ng | 100 |

Postel

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220807.D
 Acq On : 22 May 2008 7:20 am
 Operator : RTB
 Sample : 50ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:13:27 2008
 Response via : Initial Calibration

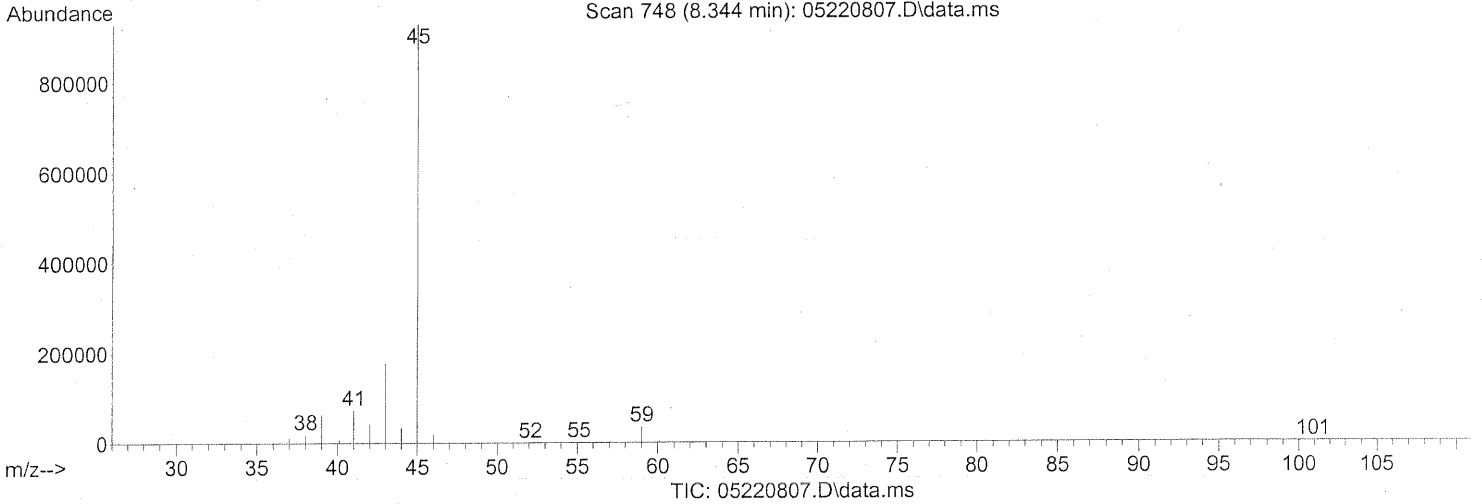
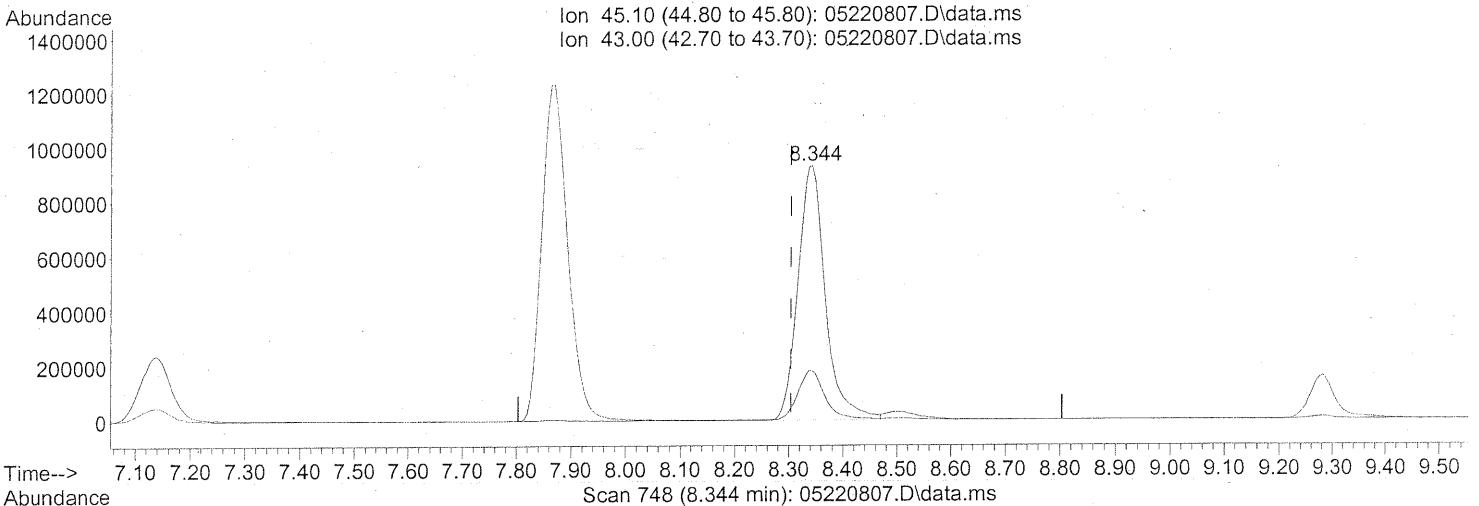
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.57 | 118 | 3260246 | 53.476 | ng | 97 |
| 81) 2-Ethyltoluene | 24.62 | 105 | 6680322 | 48.849 | ng | 99 |
| 82) 1,2,4-Trimethylbenzene | 24.89 | 105 | 6443274 | 51.595 | ng | 100 |
| 83) n-Decane | 24.99 | 57 | 3353219 | 51.063 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 5061948 | 64.084 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 3792345 | 52.804 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 3789076 | 54.907 | ng | 100 |
| 87) sec-Butylbenzene | 25.22 | 105 | 7755102 | 52.228 | ng | 97 |
| 88) p-Isopropyltoluene | 25.41 | 119 | 7381347 | 56.902 | ng | 94 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 6401281 | 52.335 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 3698897 | 50.240 | ng | 99 |
| 91) d-Limonene | 25.58 | 68 | 2592765 | 49.784 | ng | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 1267680 | 64.225 | ng | 93 |
| 93) n-Undecane | 26.50 | 57 | 3628478 | 52.700 | ng | 84 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 2831281 | 57.870 | ng | 95 |
| 95) Naphthalene | 27.78 | 128 | 8221504 | 54.942 | ng | 100 |
| 96) n-Dodecane | 27.74 | 57 | 3720630 | 54.418 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 1857176 | 56.635 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:13:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration



(15) Isopropanol (T)

8.344min (+0.040) 40.42ng

response 3286841

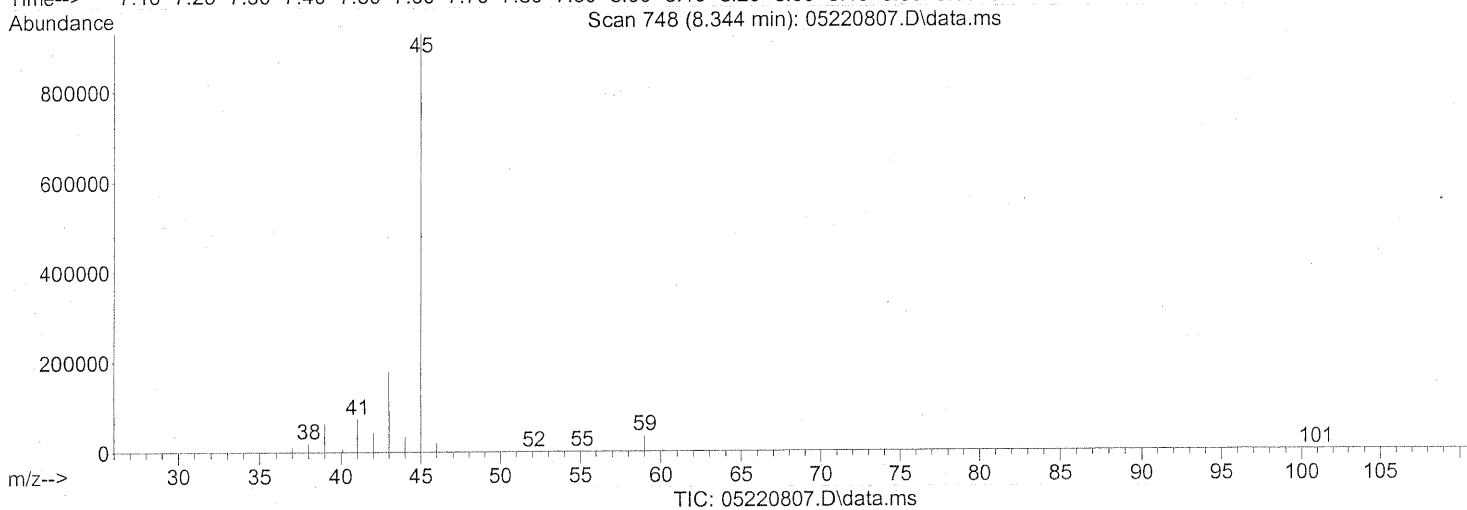
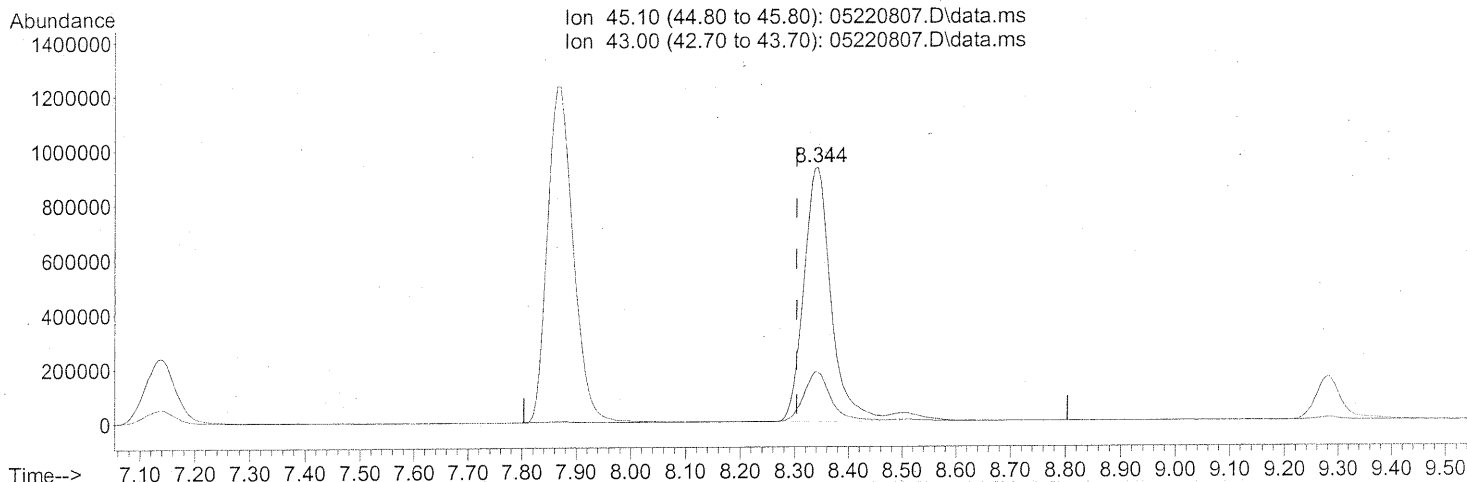
TAILING

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 19.24 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220807.D
Acq On : 22 May 2008 7:20 am
Operator : RTB
Sample : 50ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:13:44 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:13:27 2008
Response via : Initial Calibration



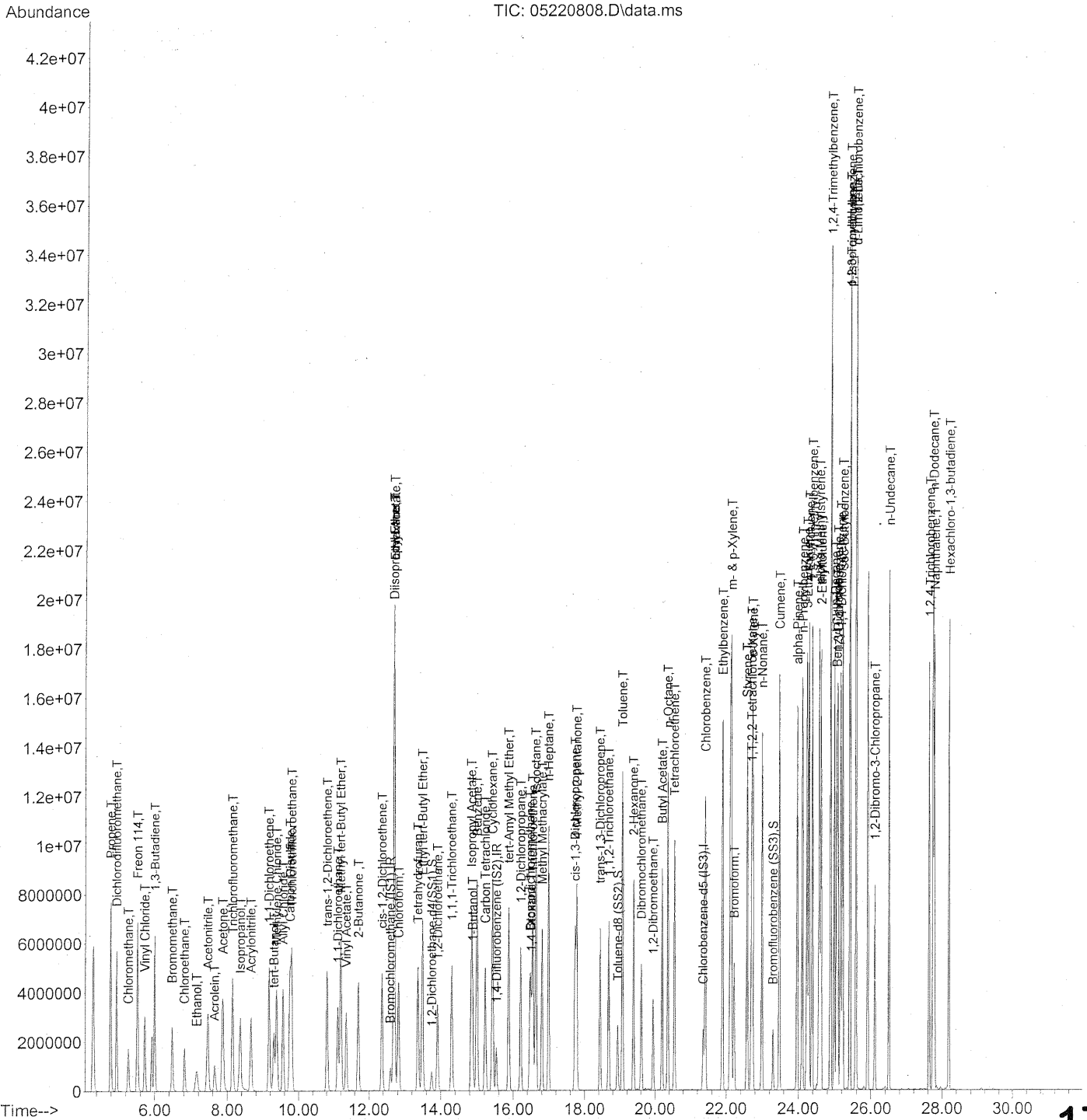
(15) Isopropanol (T)
8.344min (+0.040) 42.08ng m
response 3422080

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 18.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

ADDED TAILING
For 5/22/08
Tom 5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220808.D
 Acq On : 22 May 2008 8:01 am
 Operator : RTB
 Sample : 100ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:18:59 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220808.D
 Acq On : 22 May 2008 8:01 am
 Operator : RTB
 Sample : 100ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:18:59 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.60 | 130 | 499844 | 25.000 | ng | 0.02 |
| 37) 1,4-Difluorobenzene (IS2) | 15.53 | 114 | 2090195 | 25.000 | ng | 0.02 |
| 56) Chlorobenzene-d5 (IS3) | 21.36 | 82 | 998042 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.75 | 65 | 821224 | 23.131 | ng | 0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 92.52% | ✓ |
| 57) Toluene-d8 (SS2) | 18.94 | 98 | 2226768 | 24.907 | ng | 0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 99.64% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.30 | 174 | 935196 | 26.328 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 105.32% | ✓ |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|---------|---------|----|--------|
| 2) Propene | 4.79 | 42 | 3618365 | 89.313 | ng | 91 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 6233410 | 83.923 | ng | 99 |
| 4) Chloromethane | 5.27 | 50 | 2613249 | 51.906 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 3331516 | 90.532 | ng | 99 |
| 6) Vinyl Chloride | 5.72 | 62 | 4258812 | 86.338 | ng | 95 |
| 7) 1,3-Butadiene | 6.00 | 54 | 3733563 | 100.640 | ng | # 78 |
| 8) Bromomethane | 6.48 | 94 | 2454975 | 90.476 | ng | 99 |
| 9) Chloroethane | 6.82 | 64 | 2104947 | 90.683 | ng | 95 |
| 10) Ethanol | 7.15 | 45 | 2128819 | 80.341 | ng | 95 |
| 11) Acetonitrile | 7.47 | 41 | 6047148 | 78.947 | ng | 96 |
| 12) Acrolein | 7.65 | 56 | 1713269 | 90.046 | ng | 99 |
| 13) Acetone | 7.88 | 58 | 2480814 | 75.471 | ng | # 69 |
| 14) Trichlorofluoromethane | 8.15 | 101 | 5619271 | 89.141 | ng | 100 |
| 15) Isopropanol | 8.37 | 45 | 6968359 | 79.132 | ng | 95 |
| 16) Acrylonitrile | 8.66 | 53 | 4003929 | 96.055 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 2816711 | 101.627 | ng | # 78 |
| 18) tert-Butanol | 9.30 | 59 | 4339050 | 55.424 | ng | 90 |
| 19) Methylene Chloride | 9.37 | 84 | 2894936 | 95.058 | ng | # 82 |
| 20) Allyl Chloride | 9.56 | 41 | 4725704 | 115.661 | ng | 99 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 2795872 | 98.032 | ng | 95 |
| 22) Carbon Disulfide | 9.77 | 76 | 9906306 | 84.782 | ng | 95 |
| 23) trans-1,2-Dichloroethene | 10.81 | 61 | 4508123 | 98.826 | ng | 84 |
| 24) 1,1-Dichloroethane | 11.12 | 63 | 5197608 | 97.423 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.20 | 73 | 8560648 | 96.251 | ng | 87 |
| 26) Vinyl Acetate | 11.36 | 86 | 584588 | 126.385 | ng | # 86 |
| 27) 2-Butanone | 11.70 | 72 | 1930849 | 96.606 | ng | # 90 |
| 28) cis-1,2-Dichloroethene | 12.37 | 61 | 4225200 | 97.160 | ng | 83 |
| 29) Diisopropyl Ether | 12.70 | 87 | 2241936 | 88.201 | ng | # 87 |
| 30) Ethyl Acetate | 12.71 | 61 | 1322393 | 115.760 | ng | 79 |
| 31) n-Hexane | 12.71 | 57 | 5495351 | 95.245 | ng | 90 |

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220808.D
Acq On : 22 May 2008 8:01 am
Operator : RTB
Sample : 100ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:18:59 2008
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|---------|-------|-----------|
| 32) Chloroform | 12.82 | 83 | 5076347 | 109.731 | ng | 100 |
| 34) Tetrahydrofuran | 13.36 | 72 | 1822782 | 95.305 | ng | 93 |
| 35) Ethyl tert-Butyl Ether | 13.49 | 87 | 3270454 | 95.746 | ng | # 74 |
| 36) 1,2-Dichloroethane | 13.91 | 62 | 4127321 | 91.824 | ng | 97 |
| 38) 1,1,1-Trichloroethane | 14.30 | 97 | 4698078 | 98.102 | ng | 96 |
| 39) Isopropyl Acetate | 14.85 | 61 | 1868872 | 102.984 | ng | # 54 |
| 40) 1-Butanol | 14.88 | 56 | 2791756 | 97.697 | ng | # 66 |
| 41) Benzene | 15.00 | 78 | 10862072 | 97.961 | ng | 98 |
| 42) Carbon Tetrachloride | 15.22 | 117 | 4396527 | 104.214 | ng | 99 |
| 43) Cyclohexane | 15.42 | 84 | 4341704 | 100.544 | ng | # 76 |
| 44) tert-Amyl Methyl Ether | 15.88 | 73 | 7750761 | 97.021 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.21 | 63 | 2995074 | 100.524 | ng | 99 |
| 46) Bromodichloromethane | 16.48 | 83 | 4038109 | 107.117 | ng | 100 |
| 47) Trichloroethene | 16.55 | 130 | 3275567 | 97.388 | ng | 99 |
| 48) 1,4-Dioxane | 16.51 | 88 | 2240784 | 106.812 | ng | 82 |
| 49) Isooctane | 16.64 | 57 | 11898201 | 92.431 | ng | 80 |
| 50) Methyl Methacrylate | 16.81 | 100 | 1175755 | 107.816 | ng | 90 |
| 51) n-Heptane | 16.99 | 71 | 3110452 | 104.634 | ng | # 80 |
| 52) cis-1,3-Dichloropropene | 17.74 | 75 | 4505013 | 101.650 | ng | 100 |
| 53) 4-Methyl-2-pentanone | 17.79 | 58 | 3035968 | 102.112 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.44 | 75 | 4596030 | 120.483 | ng | 99 |
| 55) 1,1,2-Trichloroethane | 18.68 | 97 | 2798170 | 102.528 | ng | 97 |
| 58) Toluene | 19.07 | 91 | 11935621 | 97.032 | ng | 99 |
| 59) 2-Hexanone | 19.39 | 43 | 8273154 | 97.077 | ng | 85 |
| 60) Dibromochloromethane | 19.61 | 129 | 3659026 | 112.467 | ng | 98 |
| 61) 1,2-Dibromoethane | 19.94 | 107 | 3324092 | 105.186 | ng | 100 |
| 62) Butyl Acetate | 20.20 | 43 | 8830378 | 102.235 | ng | 88 |
| 63) n-Octane | 20.36 | 57 | 2732318 | 99.278 | ng | 91 |
| 64) Tetrachloroethene | 20.55 | 166 | 3697436 | 103.310 | ng | 100 |
| 65) Chlorobenzene | 21.42 | 112 | 8257282 | 101.037 | ng | 98 |
| 66) Ethylbenzene | 21.90 | 91 | 13475481 | 95.315 | ng | 100 |
| 67) m- & p-Xylene | 22.14 | 91 | 21735890 | 226.751 | ng | 97 |
| 68) Bromoform | 22.22 | 173 | 3386774 | 140.735 | ng | 100 |
| 69) Styrene | 22.58 | 104 | 8806510 | 104.763 | ng | 95 |
| 70) o-Xylene | 22.73 | 91 | 11379968 | 110.493 | ng | 97 |
| 71) n-Nonane | 22.99 | 43 | 7073437 | 96.240 | ng | # 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.70 | 83 | 5546058 | 129.023 | ng | 98 |
| 74) Cumene | 23.48 | 105 | 12994730 | 95.422 | ng | 94 |
| 75) alpha-Pinene | 23.97 | 93 | 7235722 | 102.454 | ng | 96 |
| 76) n-Propylbenzene | 24.11 | 91 | 15249075 | 87.865 | ng | 95 |
| 77) 3-Ethyltoluene | 24.24 | 105 | 13665128 | 94.255 | ng | 96 |
| 78) 4-Ethyltoluene | 24.30 | 105 | 12869382 | 94.572 | ng | 94 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 11704517 | 95.061 | ng | 96 |

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5/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220808.D
 Acq On : 22 May 2008 8:01 am
 Operator : RTB
 Sample : 100ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:18:59 2008
 Response via : Initial Calibration

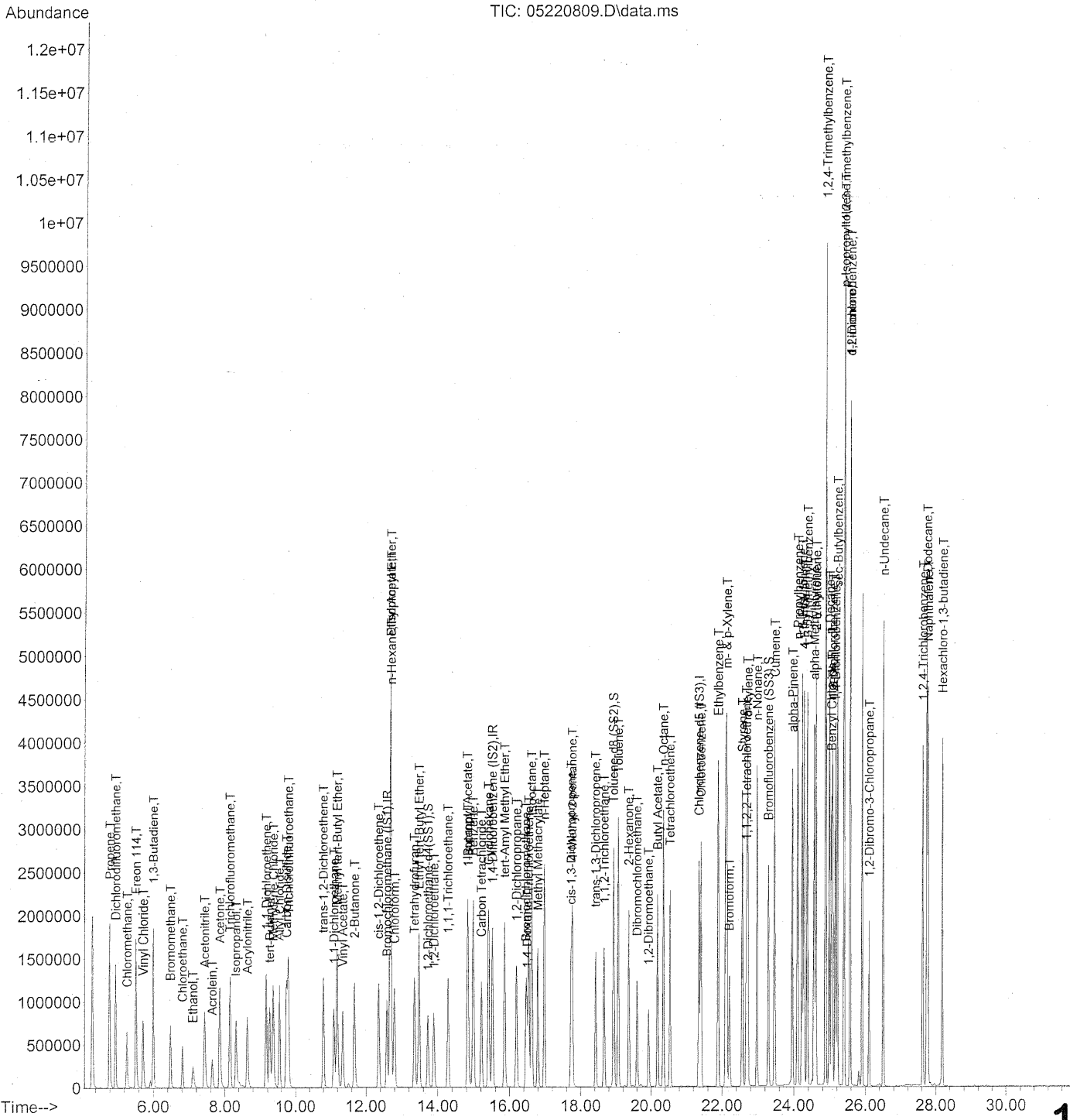
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 80) alpha-Methylstyrene | 24.57 | 118 | 6793283 | 102.591 | ng | 97 |
| 81) 2-Ethyltoluene | 24.63 | 105 | 12944985 | 87.872 | ng | 95 |
| 82) 1,2,4-Trimethylbenzene | 24.90 | 105 | 12183750 | 93.691 | ng | 98 |
| 83) n-Decane | 25.00 | 57 | 6684949 | 95.503 | ng | 84 |
| 84) Benzyl Chloride | 25.06 | 91 | 10394950 | 122.582 | ng | 98 |
| 85) 1,3-Dichlorobenzene | 25.09 | 146 | 7799683 | 99.904 | ng | 99 |
| 86) 1,4-Dichlorobenzene | 25.17 | 146 | 7808346 | 103.898 | ng | 98 |
| 87) sec-Butylbenzene | 25.22 | 105 | 14254088 | 89.336 | ng | 92 |
| 88) p-Isopropyltoluene | 25.41 | 119 | 13122108 | 97.057 | ng | 90 |
| 89) 1,2,3-Trimethylbenzene | 25.42 | 105 | 12020170 | 94.382 | ng | 98 |
| 90) 1,2-Dichlorobenzene | 25.59 | 146 | 7117955 | 91.406 | ng | 98 |
| 91) d-Limonene | 25.58 | 68 | 5122339 | 94.899 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 2745855 | 125.009 | ng | 96 |
| 93) n-Undecane | 26.51 | 57 | 7238505 | 98.491 | ng | 82 |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 6082208 | 113.506 | ng | 94 |
| 95) Naphthalene | 27.78 | 128 | 15301122 | 93.920 | ng | 95 |
| 96) n-Dodecane | 27.74 | 57 | 7513203 | 102.717 | ng | 80 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 4111380 | 114.428 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7/05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220809.D
Acq On : 22 May 2008 8:41 am
Operator : RTB
Sample : 25ng TO-15 ICV Standard
Misc : S20-04300802/S20-04290803
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:20:46 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220809.D
 Acq On : 22 May 2008 8:41 am
 Operator : RTB
 Sample : 25ng TO-15 ICV Standard
 Misc : S20-04300802/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:20:46 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 526986 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2202027 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1025095 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | | |
|--------------------------------|-------|-----|---------|--------|----|------|----------------------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 856754 | 23.463 | ng | 0.00 | |
| Spiked Amount | | | | 25.000 | | | Recovery = 93.84% ✓ |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2305788 | 25.046 | ng | 0.00 | |
| Spiked Amount | | | | 25.000 | | | Recovery = 100.20% ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 957507 | 25.576 | ng | 0.00 | |
| Spiked Amount | | | | 25.000 | | | Recovery = 102.32% ✓ |

Target Compounds

| | | | | | | Qvalue |
|------------------------------|-------|-----|---------|--------|----|--------|
| 2) Propene | 4.79 | 42 | 904492 | 21.732 | ng | 89 |
| 3) Dichlorodifluoromethane | 4.96 | 85 | 1592833 | 20.763 | ng | 100 |
| 4) Chloromethane | 5.28 | 50 | 951593 | 19.156 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 846788 | 22.439 | ng | 99 |
| 6) Vinyl Chloride | 5.72 | 62 | 1083652 | 21.802 | ng | 96 |
| 7) 1,3-Butadiene | 5.99 | 54 | 1063896 | 28.776 | ng | # 80 |
| 8) Bromomethane | 6.48 | 94 | 657228 | 23.743 | ng | 99 |
| 9) Chloroethane | 6.82 | 64 | 546673 | 23.153 | ng | 96 |
| 10) Ethanol | 7.11 | 45 | 522833 | 18.869 | ng | 95 |
| 11) Acetonitrile | 7.43 | 41 | 1535229 | 19.160 | ng | 99 |
| 12) Acrolein | 7.64 | 56 | 448122 | 22.640 | ng | 99 |
| 13) Acetone | 7.86 | 58 | 679311 | 23.946 | ng | # 70 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1461864 | 22.211 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 1791646 | 19.802 | ng | 97 |
| 16) Acrylonitrile | 8.64 | 53 | 1021254 | 23.643 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 711330 | 24.569 | ng | # 77 |
| 18) tert-Butanol | 9.26 | 59 | 1820081 | 23.651 | ng | 91 |
| 19) Methylene Chloride | 9.36 | 84 | 731536 | 23.074 | ng | # 80 |
| 20) Allyl Chloride | 9.55 | 41 | 1238821 | 29.284 | ng | 100 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 704259 | 23.529 | ng | 94 |
| 22) Carbon Disulfide | 9.76 | 76 | 2534413 | 21.066 | ng | 97 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 1111763 | 23.707 | ng | 83 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1307596 | 23.769 | ng | 96 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 2142908 | 23.359 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 160863 | 30.682 | ng | # 80 |
| 27) 2-Butanone | 11.68 | 72 | 493795 | 23.849 | ng | # 91 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 1043381 | 23.279 | ng | 82 |
| 29) Diisopropyl Ether | 12.69 | 87 | 574546 | 22.646 | ng | # 84 |
| 30) Ethyl Acetate | 12.69 | 61 | 296591 | 26.536 | ng | 80 |
| 31) n-Hexane | 12.70 | 57 | 1330931 | 23.599 | ng | 89 |

7/05/22/08

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220809.D
 Acq On : 22 May 2008 8:41 am
 Operator : RTB
 Sample : 25ng TO-15 ICV Standard
 Misc : S20-04300802/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:20:46 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.80 | 83 | 1256429 | 26.146 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 462519 | 23.366 | ng # | 90 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 827620 | 23.294 | ng # | 75 |
| 36) 1,2-Dichloroethane | 13.90 | 62 | 1024639 | 22.070 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1172977 | 23.390 | ng | 96 |
| 39) Isopropyl Acetate | 14.83 | 61 | 470529 | 25.017 | ng # | 55 |
| 40) 1-Butanol | 14.84 | 56 | 553333 | 18.281 | ng # | 52 |
| 41) Benzene | 14.99 | 78 | 2737421 | 23.742 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 1070287 | 24.104 | ng | 100 |
| 43) Cyclohexane | 15.41 | 84 | 1063631 | 23.714 | ng # | 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1966905 | 23.781 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 731352 | 23.707 | ng | 99 |
| 46) Bromodichloromethane | 16.46 | 83 | 1003739 | 25.754 | ng | 99 |
| 47) Trichloroethene | 16.54 | 130 | 779244 | 22.032 | ng | 100 |
| 48) 1,4-Dioxane | 16.49 | 88 | 532567 | 24.490 | ng | 80 |
| 49) Isooctane | 16.62 | 57 | 3122023 | 23.617 | ng | 81 |
| 50) Methyl Methacrylate | 16.80 | 100 | 280468 | 24.343 | ng # | 89 |
| 51) n-Heptane | 16.98 | 71 | 738106 | 24.093 | ng # | 80 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 1093368 | 23.856 | ng | 98 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 704061 | 22.999 | ng | 79 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 1097339 | 27.755 | ng | 99 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 675092 | 23.694 | ng | 97 |
| 58) Toluene | 19.07 | 91 | 2956298 | 23.623 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 1910790 | 22.159 | ng | 83 |
| 60) Dibromochloromethane | 19.60 | 129 | 870561 | 25.756 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 797380 | 24.343 | ng | 100 |
| 62) Butyl Acetate | 20.19 | 43 | 2128474 | 24.318 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 663984 | 23.991 | ng | 89 |
| 64) Tetrachloroethene | 20.55 | 166 | 849341 | 22.937 | ng | 99 |
| 65) Chlorobenzene | 21.41 | 112 | 1988254 | 23.699 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 3424846 | 23.867 | ng | 94 |
| 67) m- & p-Xylene | 22.13 | 91 | 5432092 | 56.594 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 811353 | 32.258 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 2078402 | 24.224 | ng | 98 |
| 70) o-Xylene | 22.72 | 91 | 2764174 | 26.678 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1755676 | 23.864 | ng # | 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 1287414 | 29.813 | ng | 97 |
| 74) Cumene | 23.47 | 105 | 3407138 | 24.694 | ng | 99 |
| 75) alpha-Pinene | 23.97 | 93 | 1694437 | 23.751 | ng | 96 |
| 76) n-Propylbenzene | 24.10 | 91 | 4256280 | 24.244 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3497532 | 23.816 | ng | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3310164 | 24.177 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 2875327 | 23.246 | ng | 100 |

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220809.D
 Acq On : 22 May 2008 8:41 am
 Operator : RTB
 Sample : 25ng TO-15 ICV Standard
 Misc : S20-04300802/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:20:46 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1446859 | 21.606 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3432797 | 23.065 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 3024740 | 24.019 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 1706800 | 24.634 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 2488736 | 29.453 | ng | 98 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1830636 | 23.251 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1844553 | 24.167 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 3958133 | 24.591 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3670414 | 27.703 | ng | 95 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 3191482 | 25.901 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1756962 | 23.529 | ng | 100 |
| 91) d-Limonene | 25.58 | 68 | 1053273 | 20.994 | ng | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 635829 | 27.437 | ng | 94 |
| 93) n-Undecane | 26.50 | 57 | 1797042 | 24.782 | ng | 84 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1355653 | 24.787 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 4000200 | 24.083 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1741563 | 24.150 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 871677 | 23.942 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Handwritten: 5/22/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 05220809.D
 Data File Path: J:\MS13\DATA\2008_05\22\
 Operator: RTB
 Date Acquired: 5/22/08 8:41
 Acq. Method File: TO15.M
 Sample Name: 25ng TO-15 ICV Standard
 Misc Info: S20-04300802/S20-04290803
 Instrument Name: GCMS13

| # | Name <u>Compound</u> | Ret. <u>Time</u> | Amt. <u>(ng)</u> | Spike <u>Amt.(ng)</u> | % <u>Rec.</u> | Lower <u>Limit</u> | Upper <u>Limit</u> | * OR <u>Fail</u> |
|-----|--------------------------|---------------------|---------------------|--------------------------|------------------|-----------------------|-----------------------|---------------------|
| 2) | Propene | 4.79 | 21.73 | 26.3 | 82.6 | 70 | 130 | * |
| 3) | Dichlorodifluoromethane | 4.96 | 20.76 | 25.5 | 81.4 | 70 | 130 | * |
| 4) | Chloromethane | 5.28 | 19.16 | 24.5 | 78.2 | 70 | 130 | * |
| 5) | Freon 114 | 5.52 | 22.44 | 26.0 | 86.3 | 70 | 130 | * |
| 6) | Vinyl Chloride | 5.72 | 21.80 | 24.8 | 87.9 | 70 | 130 | * |
| 7) | 1,3-Butadiene | 5.99 | 28.78 | 30.0 | 95.9 | 70 | 130 | * |
| 8) | Bromomethane | 6.48 | 23.74 | 25.0 | 95.0 | 70 | 130 | * |
| 9) | Chloroethane | 6.82 | 23.15 | 25.0 | 92.6 | 70 | 130 | * |
| 10) | Ethanol | 7.11 | 18.87 | 23.8 | 79.3 | 70 | 130 | * |
| 11) | Acetonitrile | 7.43 | 19.16 | 25.3 | 75.7 | 70 | 130 | * |
| 12) | Acrolein | 7.64 | 22.64 | 24.8 | 91.3 | 70 | 130 | * |
| 13) | Acetone | 7.86 | 23.95 | 26.8 | 89.4 | 70 | 130 | * |
| 14) | Trichlorofluoromethane | 8.14 | 22.21 | 26.3 | 84.5 | 70 | 130 | * |
| 15) | Isopropanol | 8.32 | 19.80 | 25.8 | 76.8 | 70 | 130 | * |
| 16) | Acrylonitrile | 8.64 | 23.64 | 25.5 | 92.7 | 70 | 130 | * |
| 17) | 1,1-Dichloroethene | 9.16 | 24.57 | 27.8 | 88.4 | 70 | 130 | * |
| 18) | tert-Butanol | 9.26 | 23.65 | 25.8 | 91.7 | 70 | 130 | * |
| 19) | Methylene Chloride | 9.36 | 23.07 | 27.8 | 83.0 | 70 | 130 | * |
| 20) | Allyl Chloride | 9.55 | 29.28 | 26.8 | 109.3 | 70 | 130 | * |
| 21) | Trichlorotrifluoroethane | 9.81 | 23.53 | 27.8 | 84.6 | 70 | 130 | * |
| 22) | Carbon Disulfide | 9.76 | 21.07 | 25.0 | 84.3 | 70 | 130 | * |
| 23) | trans-1,2-Dichloroethene | 10.80 | 23.71 | 26.5 | 89.5 | 70 | 130 | * |
| 24) | 1,1-Dichloroethane | 11.10 | 23.77 | 26.8 | 88.7 | 70 | 130 | * |
| 25) | Methyl tert-Butyl Ether | 11.19 | 23.36 | 26.8 | 87.2 | 70 | 130 | * |
| 26) | Vinyl Acetate | 11.35 | 30.68 | 25.3 | 121.3 | 70 | 130 | * |
| 27) | 2-Butanone | 11.68 | 23.85 | 27.0 | 88.3 | 70 | 130 | * |
| 28) | cis-1,2-Dichloroethene | 12.35 | 23.28 | 27.0 | 86.2 | 70 | 130 | * |
| 29) | Diisopropyl Ether | 12.69 | 22.65 | 26.3 | 86.1 | 70 | 130 | * |
| 30) | Ethyl Acetate | 12.69 | 26.54 | 29.3 | 90.6 | 70 | 130 | * |
| 31) | n-Hexane | 12.70 | 23.60 | 27.0 | 87.4 | 70 | 130 | * |
| 32) | Chloroform | 12.80 | 26.15 | 29.8 | 87.7 | 70 | 130 | * |
| 34) | Tetrahydrofuran | 13.35 | 23.37 | 26.8 | 87.2 | 70 | 130 | * |
| 35) | Ethyl tert-Butyl Ether | 13.48 | 23.29 | 26.0 | 89.6 | 70 | 130 | * |
| 36) | 1,2-Dichloroethane | 13.90 | 22.07 | 26.3 | 83.9 | 70 | 130 | * |
| 38) | 1,1,1-Trichloroethane | 14.29 | 23.39 | 26.8 | 87.3 | 70 | 130 | * |
| 39) | Isopropyl Acetate | 14.83 | 25.02 | 25.5 | 98.1 | 70 | 130 | * |

Post 5/22/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 05220809.D
 Data File Path: J:\MS13\DATA\2008_05\22\
 Operator: RTB
 Date Acquired: 5/22/08 8:41
 Acq. Method File: TO15.M
 Sample Name: 25ng TO-15 ICV Standard
 Misc Info: S20-04300802/S20-04290803
 Instrument Name: GCMS13

| # | Name Compound | Ret. Time | Amt. (ng) | Spike Amt.(ng) | % Rec. | Lower Limit | Upper Limit | * OR Fail |
|-----|---------------------------|--------------|--------------|-------------------|-----------|----------------|----------------|--------------|
| 40) | 1-Butanol | 14.84 | 18.28 | 24.8 | 73.7 | 70 | 130 | * |
| 41) | Benzene | 14.99 | 23.74 | 27.0 | 87.9 | 70 | 130 | * |
| 42) | Carbon Tetrachloride | 15.21 | 24.10 | 26.0 | 92.7 | 70 | 130 | * |
| 43) | Cyclohexane | 15.41 | 23.71 | 26.8 | 88.5 | 70 | 130 | * |
| 44) | tert-Amyl Methyl Ether | 15.87 | 23.78 | 26.0 | 91.5 | 70 | 130 | * |
| 45) | 1,2-Dichloropropane | 16.20 | 23.71 | 26.5 | 89.5 | 70 | 130 | * |
| 46) | Bromodichloromethane | 16.46 | 25.75 | 27.8 | 92.6 | 70 | 130 | * |
| 47) | Trichloroethene | 16.54 | 22.03 | 27.3 | 80.7 | 70 | 130 | * |
| 48) | 1,4-Dioxane | 16.49 | 24.49 | 27.5 | 89.1 | 70 | 130 | * |
| 49) | Isooctane | 16.62 | 23.62 | 26.3 | 89.8 | 70 | 130 | * |
| 50) | Methyl Methacrylate | 16.80 | 24.34 | 25.8 | 94.4 | 70 | 130 | * |
| 51) | n-Heptane | 16.98 | 24.09 | 26.8 | 89.9 | 70 | 130 | * |
| 52) | cis-1,3-Dichloropropene | 17.73 | 23.86 | 25.0 | 95.4 | 70 | 130 | * |
| 53) | 4-Methyl-2-pentanone | 17.77 | 23.00 | 27.5 | 83.6 | 70 | 130 | * |
| 54) | trans-1,3-Dichloropropene | 18.43 | 27.75 | 28.0 | 99.1 | 70 | 130 | * |
| 55) | 1,1,2-Trichloroethane | 18.67 | 23.69 | 26.3 | 90.1 | 70 | 130 | * |
| 58) | Toluene | 19.07 | 23.62 | 26.5 | 89.1 | 70 | 130 | * |
| 59) | 2-Hexanone | 19.37 | 22.16 | 26.3 | 84.3 | 70 | 130 | * |
| 60) | Dibromochloromethane | 19.60 | 25.76 | 27.0 | 95.4 | 70 | 130 | * |
| 61) | 1,2-Dibromoethane | 19.93 | 24.34 | 26.3 | 92.6 | 70 | 130 | * |
| 62) | Butyl Acetate | 20.19 | 24.32 | 26.3 | 92.5 | 70 | 130 | * |
| 63) | n-Octane | 20.35 | 23.99 | 26.0 | 92.3 | 70 | 130 | * |
| 64) | Tetrachloroethene | 20.55 | 22.94 | 26.0 | 88.2 | 70 | 130 | * |
| 65) | Chlorobenzene | 21.41 | 23.70 | 26.5 | 89.4 | 70 | 130 | * |
| 66) | Ethylbenzene | 21.89 | 23.87 | 26.3 | 90.8 | 70 | 130 | * |
| 67) | m- & p-Xylene | 22.13 | 56.59 | 62.5 | 90.6 | 70 | 130 | * |
| 68) | Bromoform | 22.21 | 32.26 | 31.3 | 103.1 | 70 | 130 | * |
| 69) | Styrene | 22.57 | 24.22 | 26.3 | 92.1 | 70 | 130 | * |
| 70) | o-Xylene | 22.72 | 26.68 | 29.8 | 89.5 | 70 | 130 | * |
| 71) | n-Nonane | 22.98 | 23.86 | 26.0 | 91.8 | 70 | 130 | * |
| 72) | 1,1,2,2-Tetrachloroethane | 22.69 | 29.81 | 29.8 | 100.0 | 70 | 130 | * |
| 74) | Cumene | 23.47 | 24.69 | 27.0 | 91.5 | 70 | 130 | * |
| 75) | alpha-Pinene | 23.97 | 23.75 | 26.3 | 90.3 | 70 | 130 | * |
| 76) | n-Propylbenzene | 24.10 | 24.24 | 26.3 | 92.2 | 70 | 130 | * |
| 77) | 3-Ethyltoluene | 24.23 | 23.82 | 25.5 | 93.4 | 70 | 130 | * |

Postcard

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 05220809.D
 Data File Path: J:\MS13\DATA\2008_05\22\
 Operator: RTB
 Date Acquired: 5/22/08 8:41
 Acq. Method File: TO15.M
 Sample Name: 25ng TO-15 ICV Standard
 Misc Info: S20-04300802/S20-04290803
 Instrument Name: GCMS13

| # | Name Compound | Ret. Time | Amt. (ng) | Spike Amt.(ng) | % Rec. | Lower Limit | Upper Limit | * OR Fail |
|-----|-----------------------------|--------------|--------------|-------------------|-----------|----------------|----------------|--------------|
| 78) | 4-Ethyltoluene | 24.28 | 24.18 | 26.5 | 91.2 | 70 | 130 | * |
| 79) | 1,3,5-Trimethylbenzene | 24.37 | 23.25 | 26.0 | 89.4 | 70 | 130 | * |
| 80) | alpha-Methylstyrene | 24.56 | 21.61 | 25.5 | 84.7 | 70 | 130 | * |
| 81) | 2-Ethyltoluene | 24.61 | 23.06 | 24.8 | 93.0 | 70 | 130 | * |
| 82) | 1,2,4-Trimethylbenzene | 24.88 | 24.02 | 26.0 | 92.4 | 70 | 130 | * |
| 83) | n-Decane | 24.98 | 24.63 | 26.3 | 93.7 | 70 | 130 | * |
| 84) | Benzyl Chloride | 25.05 | 29.45 | 25.8 | 114.2 | 70 | 130 | * |
| 85) | 1,3-Dichlorobenzene | 25.08 | 23.25 | 25.5 | 91.2 | 70 | 130 | * |
| 86) | 1,4-Dichlorobenzene | 25.16 | 24.17 | 26.3 | 91.9 | 70 | 130 | * |
| 87) | sec-Butylbenzene | 25.21 | 24.59 | 26.8 | 91.8 | 70 | 130 | * |
| 88) | p-Isopropyltoluene | 25.40 | 27.70 | 28.8 | 96.2 | 70 | 130 | * |
| 89) | 1,2,3-Trimethylbenzene | 25.41 | 25.90 | 28.5 | 90.9 | 70 | 130 | * |
| 90) | 1,2-Dichlorobenzene | 25.58 | 23.53 | 25.8 | 91.2 | 70 | 130 | * |
| 91) | d-Limonene | 25.58 | 20.99 | 26.0 | 80.7 | 70 | 130 | * |
| 92) | 1,2-Dibromo-3-Chloropropane | 26.11 | 27.44 | 25.8 | 106.3 | 70 | 130 | * |
| 93) | n-Undecane | 26.50 | 24.78 | 26.5 | 93.5 | 70 | 130 | * |
| 94) | 1,2,4-Trichlorobenzene | 27.63 | 24.79 | 26.0 | 95.3 | 70 | 130 | * |
| 95) | Naphthalene | 27.77 | 24.08 | 26.3 | 91.6 | 70 | 130 | * |
| 96) | n-Dodecane | 27.74 | 24.15 | 26.5 | 91.1 | 70 | 130 | * |
| 97) | Hexachloro-1,3-butadiene | 28.19 | 23.94 | 26.3 | 91.0 | 70 | 130 | * |

Bold = 67 Compound List

RTB
5/22/08

Method Path : J:\MS13\METHODS\
Method File : S13052208.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Sun May 25 20:31:38 2008
Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D
25 =05220806.D 50 =05220807.D 100 =05220808.D

| Compound | 0.1 | 0.5 | 1.0 | 5.0 | 25 | 50 | 100 | AVG | %RSD |
|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1) IR Bromochloromethane (I | | | | | | | | | |
| 2) S 1,2-Dichloroethane- | 1.794 | 1.789 | 1.787 | 1.711 | 1.716 | 1.686 | 1.643 | 1.732 | 3.40 |
| 3) IR 1,4-Difluorobenzene (| | | | | | | | | |
| 4) I Chlorobenzene-d5 (IS3 | | | | | | | | | |
| 5) S Toluene-d8 (SS2) | 2.281 | 2.276 | 2.255 | 2.249 | 2.226 | 2.198 | 2.231 | 2.245 | 1.31 |
| 6) S Bromofluorobenzene | 0.879 | 0.895 | 0.904 | 0.922 | 0.931 | 0.923 | 0.937 | 0.913 | 2.31 |
| 7) tert-Butylbenzene | 2.735 | 3.218 | 2.885 | 2.855 | 3.140 | 3.024 | 2.693 | 2.936 | 6.77 |
| 8) n-Butylbenzene | 2.864 | 3.570 | 3.351 | 3.289 | 3.496 | 3.275 | 2.882 | 3.247 | 8.53 |

(#) = Out of Range

1763

DA 5/26/08

Method Path : J:\MS13\METHODS\
 Method File : S13052208.M
 Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 Last Update : Sun May 25 20:32:30 2008
 Response Via : Initial Calibration

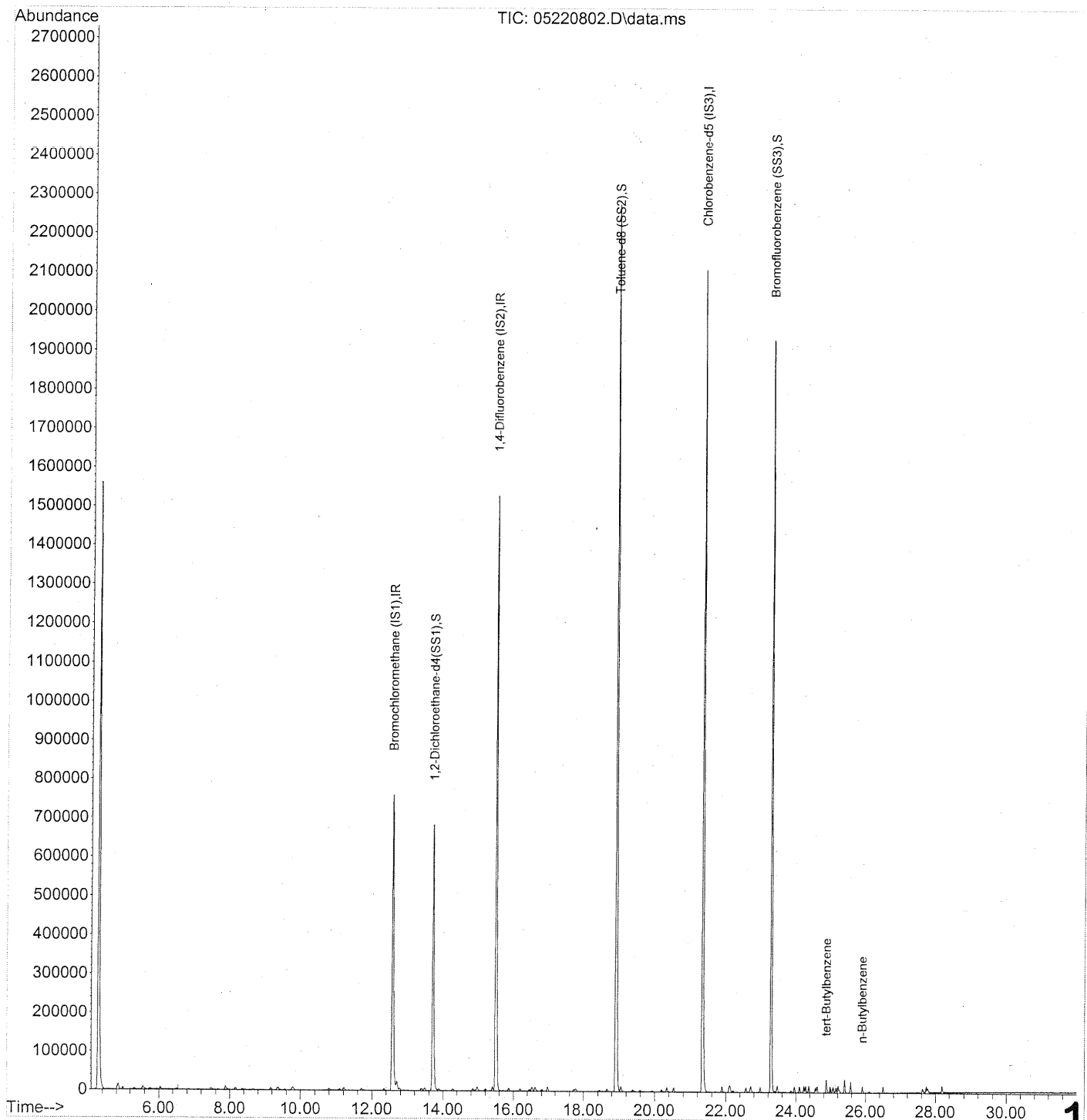
| # | ID | Conc | ISTD Conc | Path\File |
|---|-----|------|--------------|------------------------------------|
| 1 | 0.1 | 0 | 25 | J:\MS13\DATA\2008_05\22\05220802.D |
| 2 | 0.5 | 1 | 25 | J:\MS13\DATA\2008_05\22\05220803.D |
| 3 | 1.0 | 1 | 25 | J:\MS13\DATA\2008_05\22\05220804.D |
| 4 | 5.0 | 5 | 25 | J:\MS13\DATA\2008_05\22\05220805.D |
| 5 | 25 | 26 | 25 | J:\MS13\DATA\2008_05\22\05220806.D |
| 6 | 50 | 52 | 25 | J:\MS13\DATA\2008_05\22\05220807.D |
| 7 | 100 | 104 | 25 | J:\MS13\DATA\2008_05\22\05220808.D |

| # | ID | Update Time | Quant Time | Acquisition Time |
|---|-----|-------------------|-------------------|------------------|
| 1 | 0.1 | May 25 20:26 2008 | May 25 20:25 2008 | 22 May 2008 3:56 |
| 2 | 0.5 | May 25 20:27 2008 | May 25 20:25 2008 | 22 May 2008 4:37 |
| 3 | 1.0 | May 25 20:28 2008 | May 25 20:25 2008 | 22 May 2008 5:18 |
| 4 | 5.0 | May 25 20:29 2008 | May 25 20:25 2008 | 22 May 2008 5:58 |
| 5 | 25 | May 25 20:30 2008 | May 25 20:25 2008 | 22 May 2008 6:39 |
| 6 | 50 | May 25 20:31 2008 | May 25 20:25 2008 | 22 May 2008 7:20 |
| 7 | 100 | May 25 20:31 2008 | May 25 20:25 2008 | 22 May 2008 8:01 |

S13052208.M Sun May 25 20:42:55 2008

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220802.D
Acq On : 22 May 2008 3:56
Operator : RTB
Sample : 0.1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210809
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 20:25:01 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



1765

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220802.D
 Acq On : 22 May 2008 3:56
 Operator : RTB
 Sample : 0.1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210809
 ALS Vial : 15 Sample Multiplier: 1

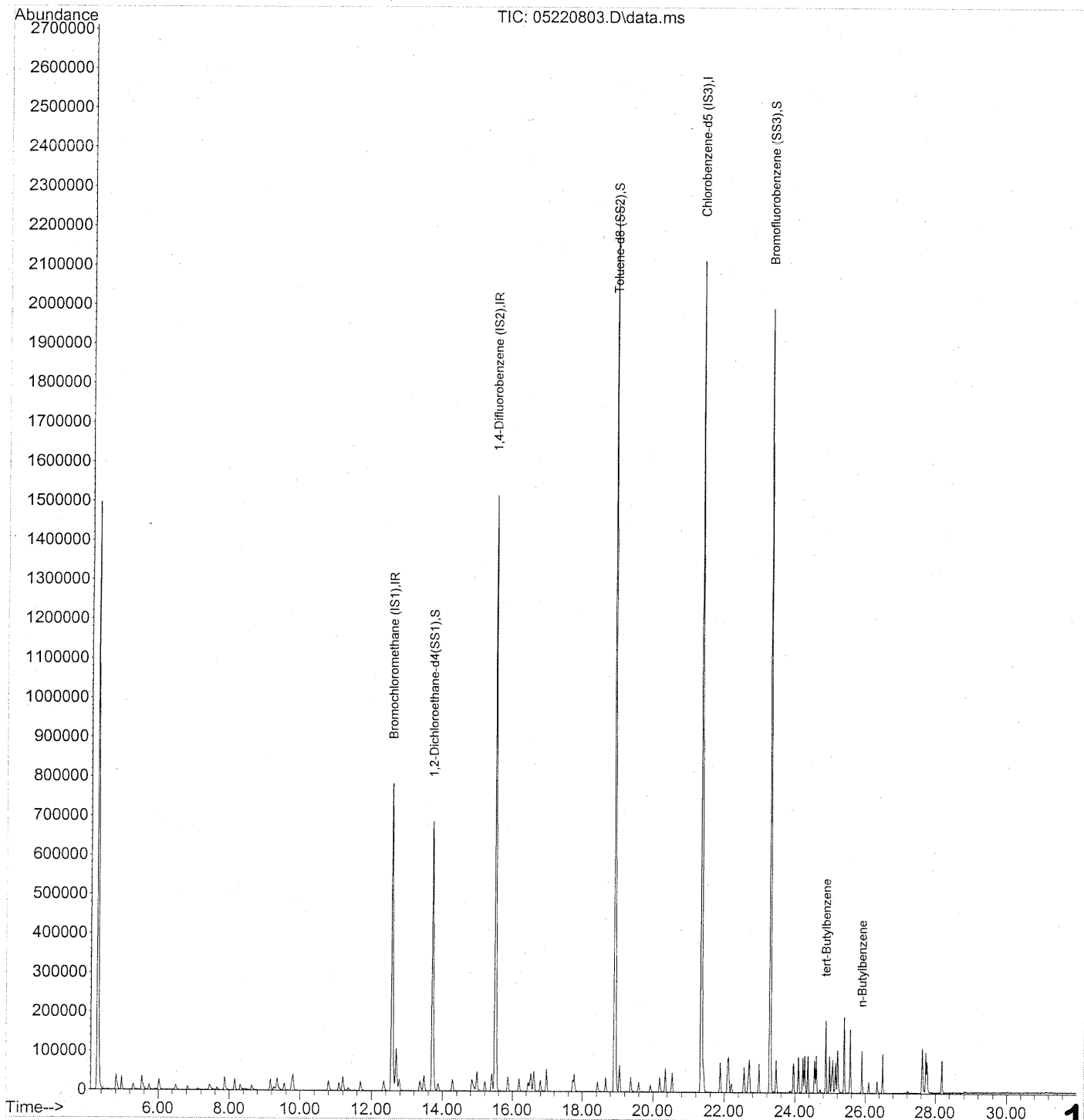
Quant Time: May 25 20:25:01 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|-------|--------------------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 391084 | 25.000 | ng | -0.03 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1729052 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 807664 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 701754 | 22.375 | ng | -0.03 |
| Spiked Amount | 25.000 | | | | | Recovery = 89.48% |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1842585 | 25.453 | ng | -0.01 |
| Spiked Amount | 25.000 | | | | | Recovery = 101.80% |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 709723 | 28.489 | ng | 0.00 |
| Spiked Amount | 25.000 | | | | | Recovery = 113.96% |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 9190 | 0.104 | ng | Qvalue 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 9900 | 0.104 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220803.D
Acq On : 22 May 2008 4:37
Operator : RTB
Sample : 0.5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:04 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



1767

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220803.D
 Acq On : 22 May 2008 4:37
 Operator : RTB
 Sample : 0.5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

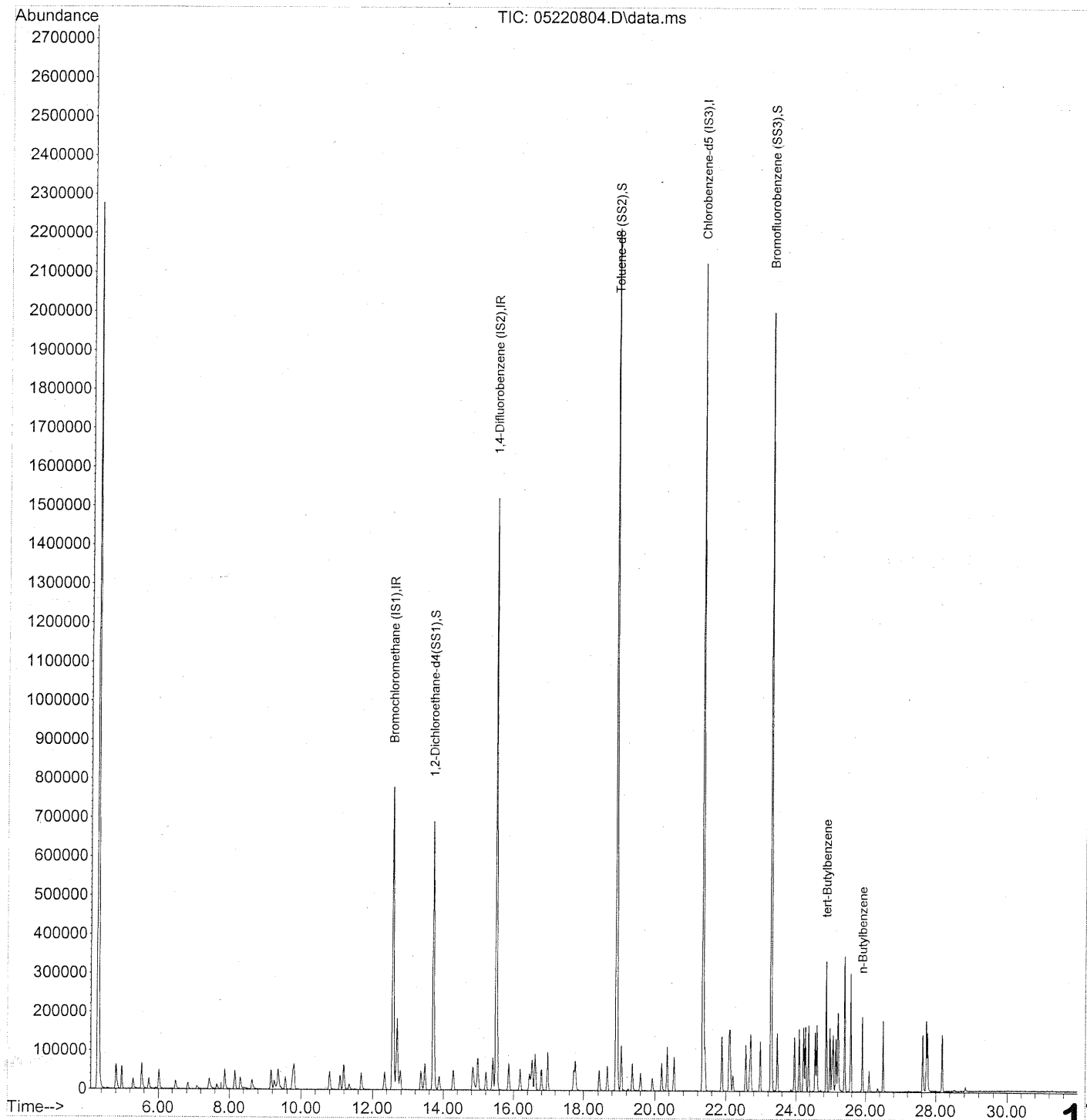
Quant Time: May 25 20:25:04 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|---------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 390197 | 25.000 | ng | -0.03 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1721246 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 802715 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 697916 | 22.303 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 89.20% | |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1826728 | 25.389 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 101.56% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 718304 | 29.011 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 116.04% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 53731 | 0.611 | ng | 100 |
| 8) n-Butylbenzene | 25.91 | 91 | 61321 | 0.647 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220804.D
Acq On : 22 May 2008 5:18
Operator : RTB
Sample : 1ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:09 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



1769

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220804.D
 Acq On : 22 May 2008 5:18
 Operator : RTB
 Sample : 1ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:09 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration

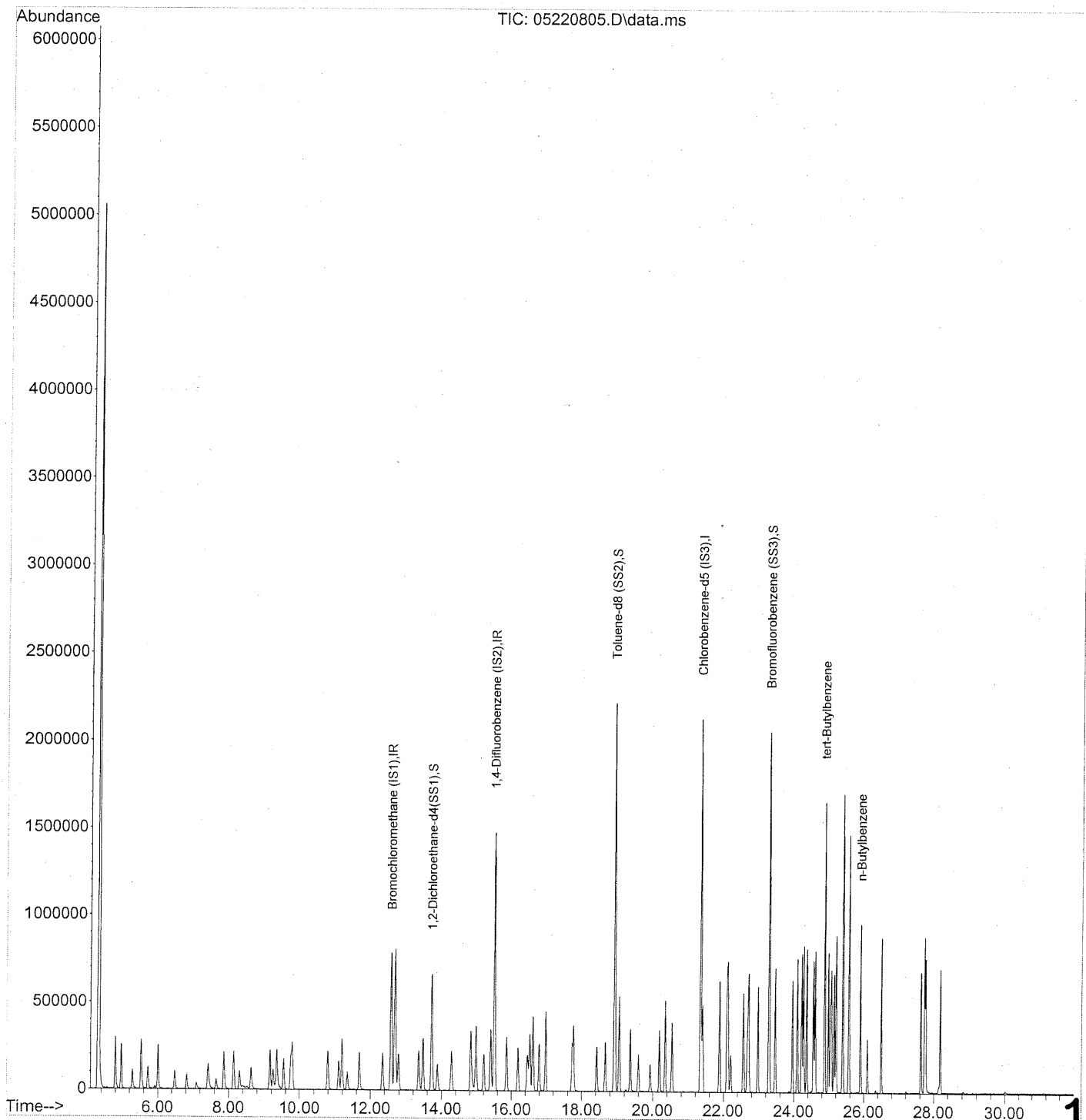
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|---------|---------------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 387850 | 25.000 | ng | -0.03 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1717781 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 808909 | 25.000 | ng | -0.01 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.72 | 65 | 693031 | 22.281 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 89.12% | |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1824190 | 25.160 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 100.64% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 731633 | 29.323 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 117.28% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 97077 | 1.096 | ng | Qvalue 100 |
| 8) n-Butylbenzene | 25.91 | 91 | 116000 | 1.214 | ng | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1770

Data Path : J:\MS13\DATA\2008_05\22\
Data File : 05220805.D
Acq On : 22 May 2008 5:58
Operator : RTB
Sample : 5ng TO-15 ICAL Standard
Misc : S20-04300802/S20-05210806
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:14 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Mon Apr 28 10:06:00 2008
Response via : Initial Calibration



1771

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220805.D
 Acq On : 22 May 2008 5:58
 Operator : RTB
 Sample : 5ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

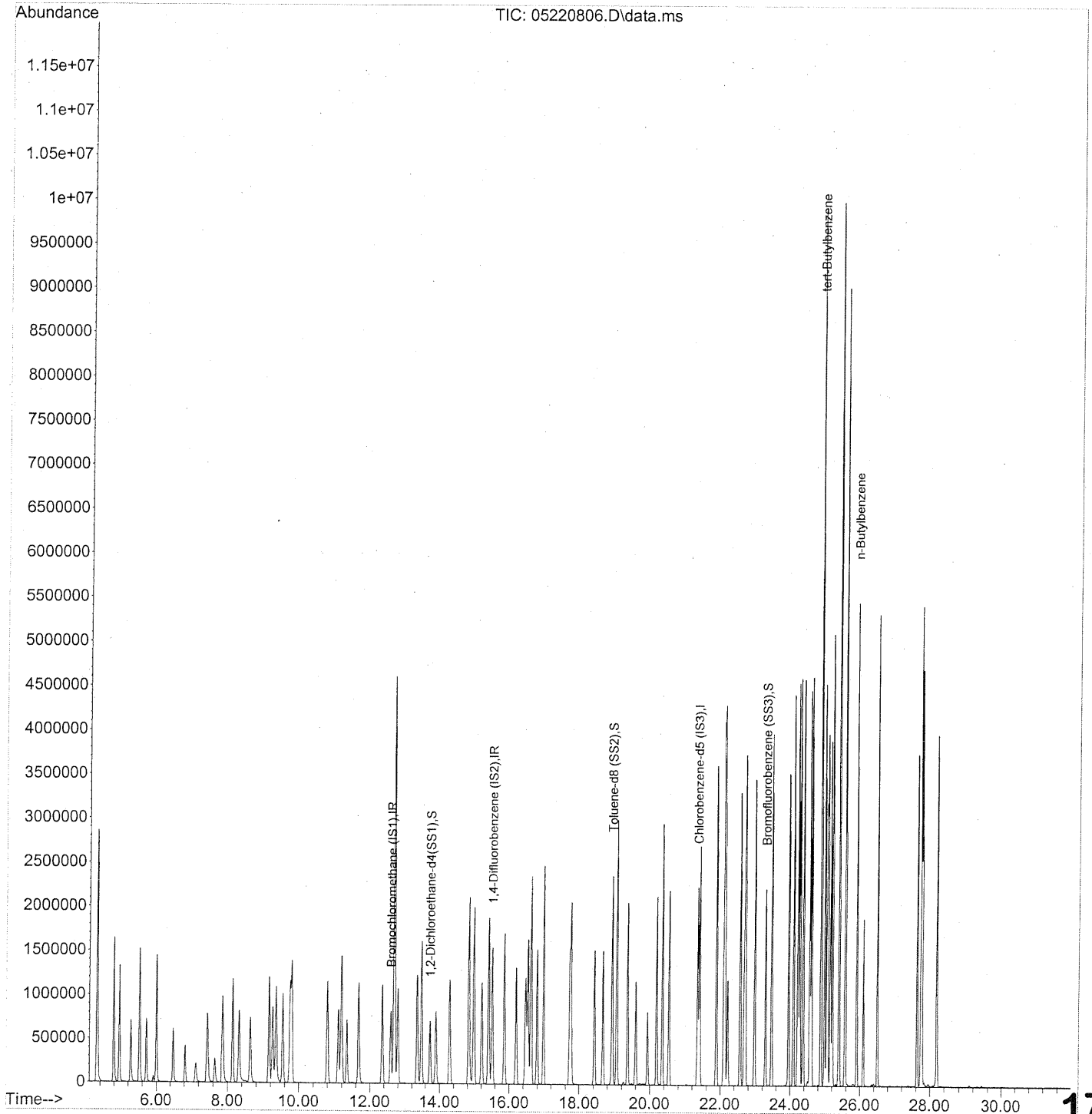
Quant Time: May 25 20:25:14 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 392159 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1692913 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 804687 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 670984 | 21.335 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 85.36% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 1810051 | 25.096 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 100.40% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 741734 | 29.884 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 119.52% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 477896 | 5.424 | ng | 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 566409 | 5.958 | ng | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220806.D
 Acq On : 22 May 2008 6:39
 Operator : RTB
 Sample : 25ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:18 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration



1773

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220806.D
 Acq On : 22 May 2008 6:39
 Operator : RTB
 Sample : 25ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

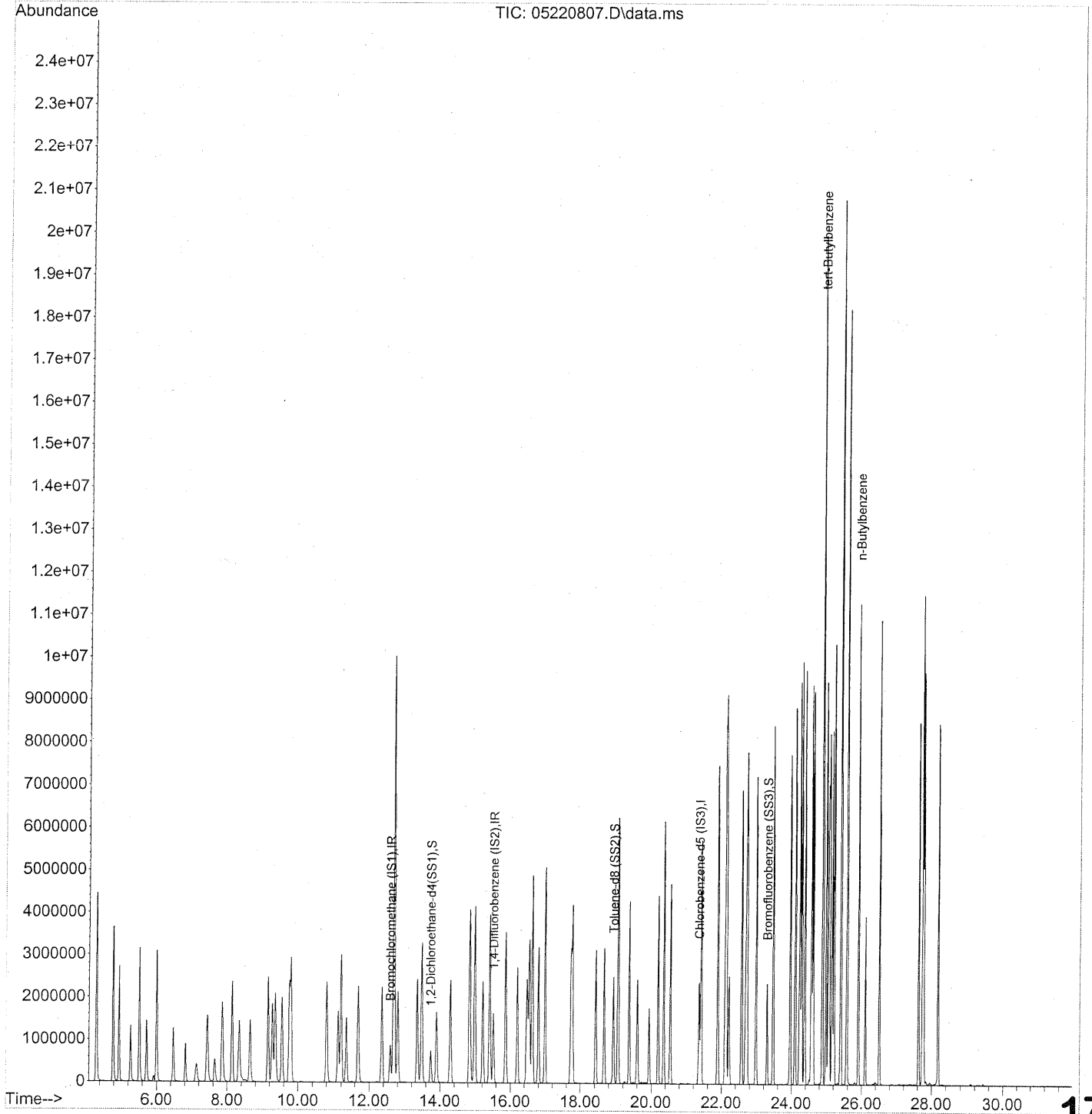
Quant Time: May 25 20:25:18 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|--------|------|----------|--------|---------|--------------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 416973 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 1789357 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 864655 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 715546 | 21.398 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 85.60% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 1925065 | 24.839 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.36% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 804956 | 30.182 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 120.72% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 2823383 | 29.820 | ng | Qvalue 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 3240519 | 31.722 | ng | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220807.D
 Acq On : 22 May 2008 7:20
 Operator : RTB
 Sample : 50ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:22 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration



1775

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220807.D
 Acq On : 22 May 2008 7:20
 Operator : RTB
 Sample : 50ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

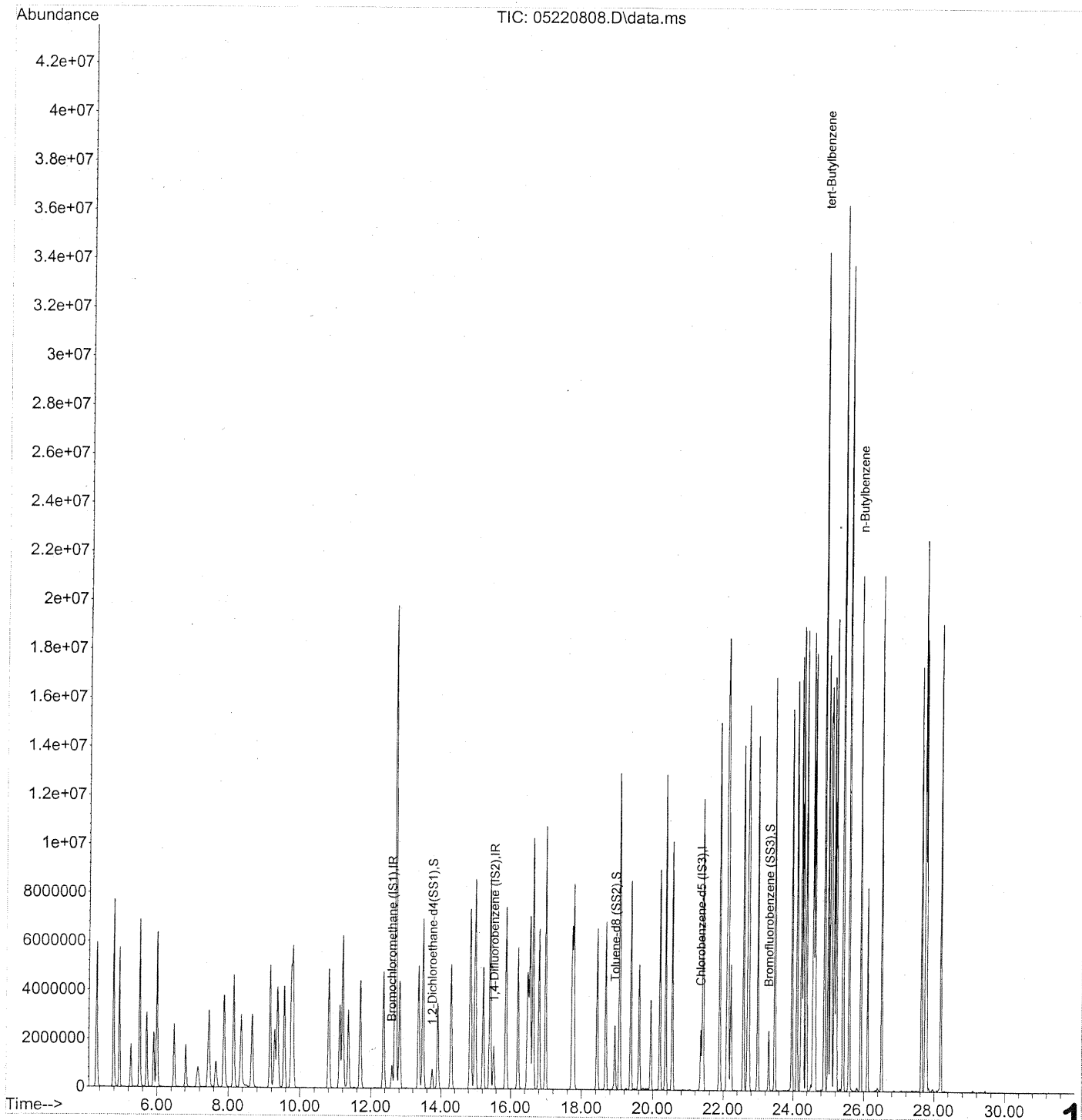
Quant Time: May 25 20:25:22 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|---------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 454188 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.53 | 114 | 1924432 | 25.000 | ng | 0.00 |
| 4) Chlorobenzene-d5 (IS3) | 21.36 | 82 | 936145 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.74 | 65 | 765682 | 21.021 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 84.08% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2057293 | 24.518 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 98.08% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 864419 | 29.936 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 119.76% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.89 | 119 | 5887817 | 57.437 | ng | 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 6561385 | 59.326 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220808.D
 Acq On : 22 May 2008 8:01
 Operator : RTB
 Sample : 100ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:27 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration



1777

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220808.D
 Acq On : 22 May 2008 8:01
 Operator : RTB
 Sample : 100ng TO-15 ICAL Standard
 Misc : S20-04300802/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

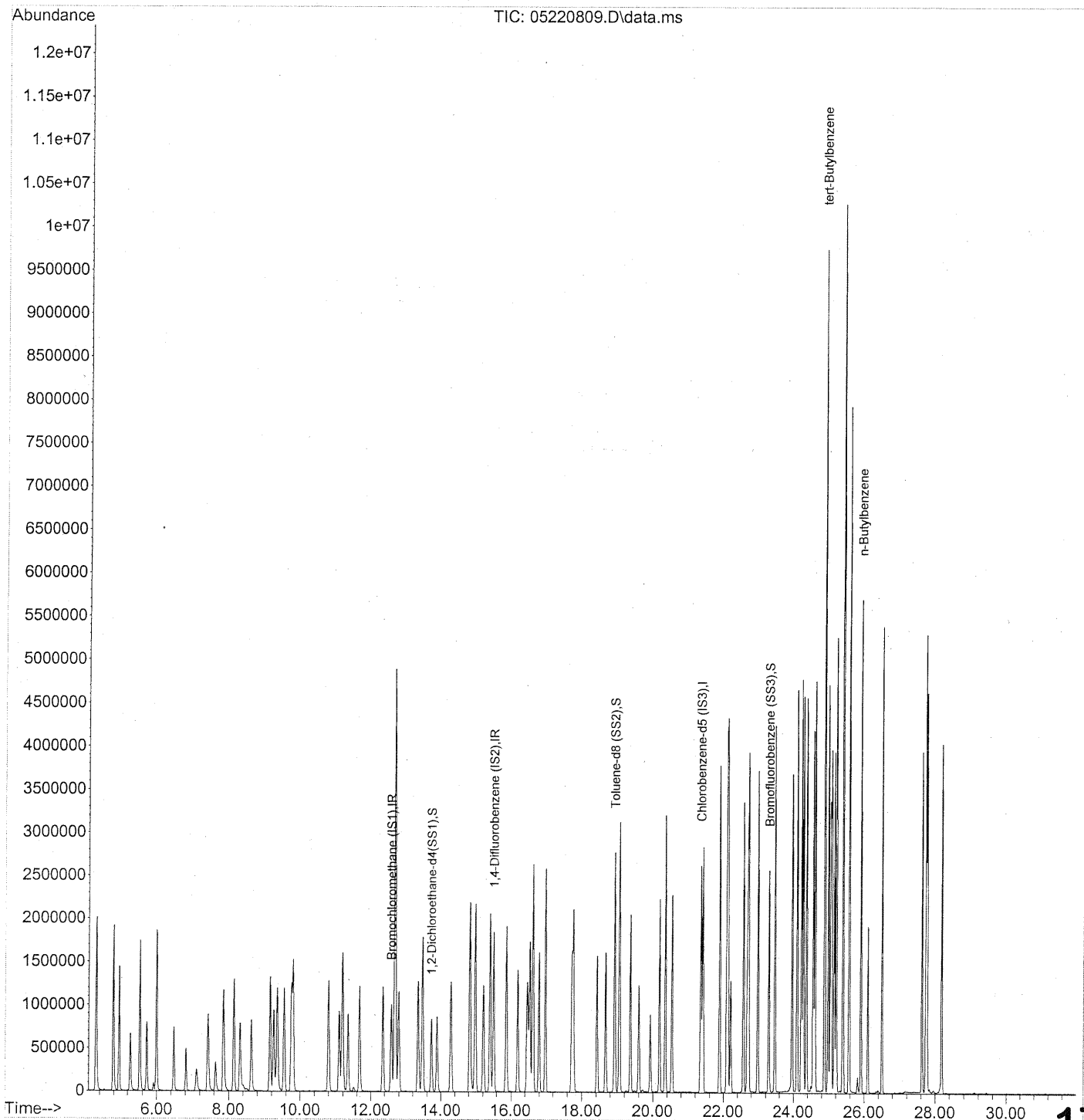
Quant Time: May 25 20:25:27 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Mon Apr 28 10:06:00 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|---------|---------|--------------|
| 1) Bromochloromethane (IS1) | 12.60 | 130 | 499844 | 25.000 | ng | 0.00 |
| 3) 1,4-Difluorobenzene (IS2) | 15.53 | 114 | 2090195 | 25.000 | ng | 0.00 |
| 4) Chlorobenzene-d5 (IS3) | 21.36 | 82 | 998042 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.75 | 65 | 821224 | 20.487 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 81.96% | |
| 5) Toluene-d8 (SS2) | 18.94 | 98 | 2226768 | 24.892 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 99.56% | |
| 6) Bromofluorobenzene (SS3) | 23.30 | 174 | 935196 | 30.378 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 121.52% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.89 | 119 | 11182254 | 102.320 | ng | Qvalue 98 |
| 8) n-Butylbenzene | 25.92 | 91 | 12309412 | 104.395 | ng | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220809.D
 Acq On : 22 May 2008 8:41
 Operator : RTB
 Sample : 25ng TO-15 ICV Standard
 Misc : S20-04300802/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:33:14 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



1779

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220809.D
 Acq On : 22 May 2008 8:41
 Operator : RTB
 Sample : 25ng TO-15 ICV Standard
 Misc : S20-04300802/S20-04290803
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:33:14 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 526986 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2202027 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1025095 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 856754 | 23.463 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 93.84% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2305788 | 25.046 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 100.20% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 957507 | 25.576 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 102.32% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 2937403 | 24.402 | ng | 98 |
| 8) n-Butylbenzene | 25.91 | 91 | 3302624 | 24.809 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 05220809.D
 Data File Path: J:\MS13\DATA\2008_05\22\
 Operator: RTB
 Date Acquired: 5/22/08 8:41
 Acq. Method File: TO15.M
 Sample Name: 25ng TO-15 ICV Standard
 Misc Info: S20-04300802/S20-04290803
 Instrument Name: GCMS13

| # | Name <u>Compound</u> | Ret. <u>Time</u> | Amt. <u>(ng)</u> | Spike <u>Amt.(ng)</u> | % <u>Rec.</u> | Lower <u>Limit</u> | Upper <u>Limit</u> | * OR <u>Fail</u> |
|----|-------------------------|---------------------|---------------------|--------------------------|------------------|-----------------------|-----------------------|---------------------|
| 7) | tert-Butylbenzene | 24.88 | 24.40 | 26.3 | 92.8 | 70 | 130 | * |
| 8) | n-Butylbenzene | 25.91 | 24.81 | 26.8 | 92.6 | 70 | 130 | * |

RTB 5/26/08

CONTINUING CALIBRATION STANDARDS

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26 am
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:18:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev (min) |
|----|-------------------------------|-------|-------|-------|-------|-----------|
| 1 | IR Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 2 | T Propene | 1.974 | 1.686 | 14.6 | 121 | -0.01 |
| 3 | T Dichlorodifluoromethane | 3.639 | 3.225 | 11.4 | 119 | -0.01 |
| 4 | T Chloromethane | 2.357 | 2.307 | 2.1 | 121 | -0.01 |
| 5 | T Freon 114 | 1.790 | 1.627 | 9.1 | 123 | -0.01 |
| 6 | T Vinyl Chloride | 2.358 | 2.195 | 6.9 | 121 | -0.02 |
| 7 | T 1,3-Butadiene | 1.754 | 1.749 | 0.3 | 119 | -0.01 |
| 8 | T Bromomethane | 1.313 | 1.237 | 5.8 | 123 | 0.00 |
| 9 | T Chloroethane | 1.120 | 1.047 | 6.5 | 122 | -0.01 |
| 10 | T Ethanol | 1.314 | 1.204 | 8.4 | 123 | 0.01 |
| 11 | T Acetonitrile | 3.801 | 3.215 | 15.4 | 122 | 0.00 |
| 12 | T Acrolein | 0.939 | 0.911 | 3.0 | 121 | 0.00 |
| 13 | T Acetone | 1.346 | 1.175 | 12.7 | 122 | 0.00 |
| 14 | T Trichlorofluoromethane | 3.122 | 2.813 | 9.9 | 118 | 0.00 |
| 15 | T Isopropanol | 4.292 | 3.961 | 7.7 | 119 | 0.02 |
| 16 | T Acrylonitrile | 2.049 | 2.040 | 0.4 | 120 | 0.00 |
| 17 | T 1,1-Dichloroethene | 1.373 | 1.271 | 7.4 | 119 | 0.00 |
| 18 | T tert-Butanol | 3.651 | 3.687 | -1.0 | 119 | 0.02 |
| 19 | T Methylene Chloride | 1.504 | 1.349 | 10.3 | 120 | 0.00 |
| 20 | T Allyl Chloride | 2.007 | 2.234 | -11.3 | 121 | 0.00 |
| 21 | T Trichlorotrifluoroethane | 1.420 | 1.305 | 8.1 | 122 | 0.00 |
| 22 | T Carbon Disulfide | 5.707 | 5.186 | 9.1 | 119 | 0.00 |
| 23 | T trans-1,2-Dichloroethene | 2.225 | 2.127 | 4.4 | 121 | 0.00 |
| 24 | T 1,1-Dichloroethane | 2.610 | 2.434 | 6.7 | 120 | 0.00 |
| 25 | T Methyl tert-Butyl Ether | 4.352 | 4.047 | 7.0 | 119 | 0.00 |
| 26 | T Vinyl Acetate | 0.249 | 0.283 | -13.7 | 121 | 0.01 |
| 27 | T 2-Butanone | 0.982 | 0.929 | 5.4 | 119 | 0.00 |
| 28 | T cis-1,2-Dichloroethene | 2.126 | 1.974 | 7.1 | 119 | 0.01 |
| 29 | T Diisopropyl Ether | 1.204 | 1.122 | 6.8 | 119 | 0.00 |
| 30 | T Ethyl Acetate | 0.530 | 0.524 | 1.1 | 120 | 0.00 |
| 31 | T n-Hexane | 2.676 | 2.484 | 7.2 | 116 | 0.00 |
| 32 | T Chloroform | 2.280 | 2.059 | 9.7 | 119 | 0.02 |
| 33 | S 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.651 | 4.7 | 117 | 0.00 |
| 34 | T Tetrahydrofuran | 0.939 | 0.886 | 5.6 | 118 | 0.00 |
| 35 | T Ethyl tert-Butyl Ether | 1.686 | 1.584 | 6.0 | 118 | 0.00 |
| 36 | T 1,2-Dichloroethane | 2.202 | 1.995 | 9.4 | 117 | 0.00 |
| 37 | IR 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 120 | 0.00 |
| 38 | T 1,1,1-Trichloroethane | 0.569 | 0.529 | 7.0 | 119 | 0.00 |

05/23/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26 am
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:18:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev (min) |
|------|---------------------------|-------|-------|------|-------|-----------|
| 39 T | Isopropyl Acetate | 0.214 | 0.225 | -5.1 | 119 | 0.00 |
| 40 T | 1-Butanol | 0.344 | 0.367 | -6.7 | 119 | 0.00 |
| 41 T | Benzene | 1.309 | 1.225 | 6.4 | 117 | 0.00 |
| 42 T | Carbon Tetrachloride | 0.504 | 0.500 | 0.8 | 118 | 0.01 |
| 43 T | Cyclohexane | 0.509 | 0.476 | 6.5 | 120 | 0.00 |
| 44 T | tert-Amyl Methyl Ether | 0.939 | 0.905 | 3.6 | 118 | 0.00 |
| 45 T | 1,2-Dichloropropane | 0.350 | 0.331 | 5.4 | 119 | 0.01 |
| 46 T | Bromodichloromethane | 0.442 | 0.428 | 3.2 | 119 | 0.01 |
| 47 T | Trichloroethene | 0.402 | 0.349 | 13.2 | 119 | 0.00 |
| 48 T | 1,4-Dioxane | 0.247 | 0.236 | 4.5 | 120 | 0.00 |
| 49 T | Isooctane | 1.501 | 1.421 | 5.3 | 117 | 0.00 |
| 50 T | Methyl Methacrylate | 0.131 | 0.135 | -3.1 | 118 | 0.00 |
| 51 T | n-Heptane | 0.348 | 0.334 | 4.0 | 116 | 0.00 |
| 52 T | cis-1,3-Dichloropropene | 0.520 | 0.525 | -1.0 | 118 | 0.00 |
| 53 T | 4-Methyl-2-pentanone | 0.348 | 0.349 | -0.3 | 118 | 0.00 |
| 54 T | trans-1,3-Dichloropropene | 0.449 | 0.474 | -5.6 | 118 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 0.323 | 0.308 | 4.6 | 118 | 0.00 |
| 56 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 116 | 0.00 |
| 57 S | Toluene-d8 (SS2) | 2.245 | 2.271 | -1.2 | 119 | 0.00 |
| 58 T | Toluene | 3.052 | 2.892 | 5.2 | 116 | 0.00 |
| 59 T | 2-Hexanone | 2.103 | 2.146 | -2.0 | 114 | 0.00 |
| 60 T | Dibromochloromethane | 0.824 | 0.846 | -2.7 | 117 | 0.00 |
| 61 T | 1,2-Dibromoethane | 0.799 | 0.790 | 1.1 | 118 | 0.00 |
| 62 T | Butyl Acetate | 2.135 | 2.205 | -3.3 | 114 | 0.00 |
| 63 T | n-Octane | 0.675 | 0.665 | 1.5 | 116 | 0.00 |
| 64 T | Tetrachloroethene | 0.903 | 0.859 | 4.9 | 118 | 0.00 |
| 65 T | Chlorobenzene | 2.046 | 1.959 | 4.3 | 117 | 0.00 |
| 66 T | Ethylbenzene | 3.500 | 3.441 | 1.7 | 115 | 0.00 |
| 67 T | m- & p-Xylene | 2.341 | 2.310 | 1.3 | 114 | 0.00 |
| 68 T | Bromoform | 0.613 | 0.652 | -6.4 | 116 | 0.00 |
| 69 T | Styrene | 2.092 | 2.124 | -1.5 | 115 | 0.00 |
| 70 T | o-Xylene | 2.527 | 2.469 | 2.3 | 115 | 0.00 |
| 71 T | n-Nonane | 1.794 | 1.776 | 1.0 | 112 | 0.00 |
| 72 T | 1,1,2,2-Tetrachloroethane | 1.053 | 1.109 | -5.3 | 114 | 0.00 |
| 73 S | Bromofluorobenzene (SS3) | 0.913 | 0.941 | -3.1 | 118 | 0.00 |
| 74 T | Cumene | 3.365 | 3.306 | 1.8 | 115 | 0.00 |
| 75 T | alpha-Pinene | 1.740 | 1.733 | 0.4 | 114 | 0.00 |
| 76 T | n-Propylbenzene | 4.282 | 4.283 | -0.0 | 113 | 0.00 |

R05/23/08

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230801.D
Acq On : 23 May 2008 8:26 am
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:18:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev (min) |
|------|-----------------------------|-------|-------|-------|-------|-----------|
| 77 T | 3-Ethyltoluene | 3.582 | 3.630 | -1.3 | 113 | 0.00 |
| 78 T | 4-Ethyltoluene | 3.339 | 3.353 | -0.4 | 112 | 0.00 |
| 79 T | 1,3,5-Trimethylbenzene | 3.017 | 2.947 | 2.3 | 112 | 0.00 |
| 80 T | alpha-Methylstyrene | 1.633 | 1.697 | -3.9 | 112 | 0.00 |
| 81 T | 2-Ethyltoluene | 3.630 | 3.650 | -0.6 | 112 | 0.00 |
| 82 T | 1,2,4-Trimethylbenzene | 3.071 | 3.090 | -0.6 | 110 | 0.00 |
| 83 T | n-Decane | 1.690 | 1.721 | -1.8 | 111 | 0.00 |
| 84 T | Benzyl Chloride | 2.061 | 2.433 | -18.0 | 112 | 0.00 |
| 85 T | 1,3-Dichlorobenzene | 1.920 | 1.920 | 0.0 | 113 | 0.00 |
| 86 T | 1,4-Dichlorobenzene | 1.861 | 1.847 | 0.8 | 112 | 0.00 |
| 87 T | sec-Butylbenzene | 3.925 | 3.923 | 0.1 | 111 | 0.00 |
| 88 T | p-Isopropyltoluene | 3.231 | 3.369 | -4.3 | 111 | 0.00 |
| 89 T | 1,2,3-Trimethylbenzene | 3.005 | 3.049 | -1.5 | 110 | 0.00 |
| 90 T | 1,2-Dichlorobenzene | 1.821 | 1.824 | -0.2 | 111 | 0.00 |
| 91 T | d-Limonene | 1.224 | 1.256 | -2.6 | 109 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.565 | 0.644 | -14.0 | 114 | 0.00 |
| 93 T | n-Undecane | 1.768 | 1.815 | -2.7 | 112 | 0.00 |
| 94 T | 1,2,4-Trichlorobenzene | 1.334 | 1.330 | 0.3 | 114 | 0.00 |
| 95 T | Naphthalene | 4.051 | 4.188 | -3.4 | 112 | 0.00 |
| 96 T | n-Dodecane | 1.759 | 1.813 | -3.1 | 111 | 0.00 |
| 97 T | Hexachloro-1,3-butadiene | 0.888 | 0.879 | 1.0 | 116 | 0.00 |

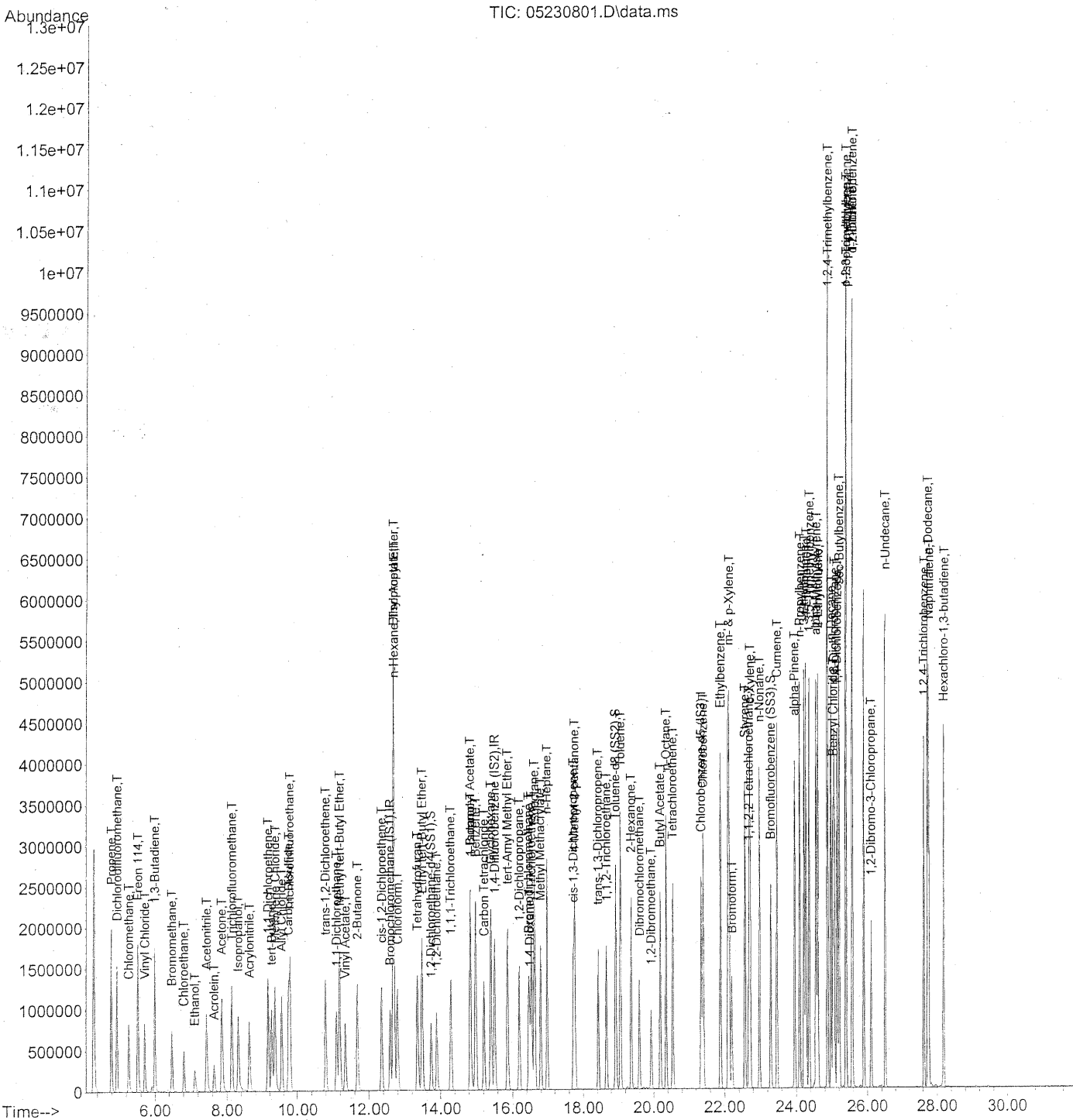
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

7/23/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26 am
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:18:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26 am
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:18:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 507961 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2149451 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1005118 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|-------------|----|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 838693 | 23.829 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 95.32% ✓ | | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2282943 | 25.290 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 101.16% ✓ | | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 946217 | 25.777 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 103.12% ✓ | | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 925087 | 23.059 | ng | 90 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 1703900 | 23.042 | ng | 99 |
| 4) Chloromethane | 5.27 | 50 | 1195432 | 24.966 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 886080 | 24.359 | ng | 100 |
| 6) Vinyl Chloride | 5.71 | 62 | 1150609 | 24.016 | ng | 96 |
| 7) 1,3-Butadiene | 5.99 | 54 | 970248 | 27.226 | ng | # 78 |
| 8) Bromomethane | 6.48 | 94 | 660775 | 24.766 | ng | 98 |
| 9) Chloroethane | 6.81 | 64 | 559477 | 24.583 | ng | 95 |
| 10) Ethanol | 7.11 | 45 | 557963 | 20.892 | ng | 95 |
| 11) Acetonitrile | 7.43 | 41 | 1600551 | 20.723 | ng | 97 |
| 12) Acrolein | 7.64 | 56 | 444309 | 23.288 | ng | 98 |
| 13) Acetone | 7.85 | 58 | 663760 | 24.274 | ng | # 64 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1485923 | 23.422 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 2076186 | 23.807 | ng | 97 |
| 16) Acrylonitrile | 8.64 | 53 | 1048526 | 25.183 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 731114 | 26.198 | ng | # 80 |
| 18) tert-Butanol | 9.26 | 59 | 1910234 | 25.752 | ng | 91 |
| 19) Methylene Chloride | 9.36 | 84 | 767286 | 25.108 | ng | # 81 |
| 20) Allyl Chloride | 9.54 | 41 | 1193951 | 29.281 | ng | 99 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 755615 | 26.190 | ng | 93 |
| 22) Carbon Disulfide | 9.76 | 76 | 2634253 | 22.716 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 1188449 | 26.291 | ng | 84 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1374984 | 25.930 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 2285802 | 25.850 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 140876 | 27.876 | ng | # 92 |
| 27) 2-Butanone | 11.68 | 72 | 528447 | 26.478 | ng | # 92 |
| 28) cis-1,2-Dichloroethene | 12.36 | 61 | 1114962 | 25.808 | ng | 84 |
| 29) Diisopropyl Ether | 12.69 | 87 | 587978 | 24.043 | ng | # 90 |
| 30) Ethyl Acetate | 12.69 | 61 | 338284 | 31.399 | ng | 79 |
| 31) n-Hexane | 12.70 | 57 | 1413443 | 26.000 | ng | 88 |

Poseslor

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26 am
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:18:18 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.80 | 83 | 1351412 | 29.176 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 500659 | 26.240 | ng | 93 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 846679 | 24.723 | ng | # 75 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 1114919 | 24.914 | ng | 97 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1251743 | 25.571 | ng | 97 |
| 39) Isopropyl Acetate | 14.84 | 61 | 489802 | 26.678 | ng | # 47 |
| 40) 1-Butanol | 14.84 | 56 | 719592 | 24.356 | ng | # 64 |
| 41) Benzene | 14.99 | 78 | 2895249 | 25.725 | ng | 99 |
| 42) Carbon Tetrachloride | 15.22 | 117 | 1151893 | 26.576 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 1137916 | 25.991 | ng | # 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 2023645 | 25.065 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 777704 | 25.826 | ng | 99 |
| 46) Bromodichloromethane | 16.46 | 83 | 1060535 | 27.877 | ng | 99 |
| 47) Trichloroethene | 16.54 | 130 | 855633 | 24.783 | ng | 98 |
| 48) 1,4-Dioxane | 16.49 | 88 | 584130 | 27.518 | ng | 81 |
| 49) Isooctane | 16.62 | 57 | 3176358 | 24.616 | ng | 81 |
| 50) Methyl Methacrylate | 16.79 | 100 | 307258 | 27.320 | ng | 90 |
| 51) n-Heptane | 16.98 | 71 | 799449 | 26.733 | ng | # 80 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 1173781 | 26.237 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 788111 | 26.375 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 1182713 | 30.646 | ng | 99 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 723482 | 26.014 | ng | 98 |
| 58) Toluene | 19.07 | 91 | 3197441 | 26.058 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 2199613 | 26.015 | ng | 83 |
| 60) Dibromochloromethane | 19.61 | 129 | 945802 | 28.538 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 867041 | 26.995 | ng | 100 |
| 62) Butyl Acetate | 20.19 | 43 | 2331039 | 27.162 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 695465 | 25.628 | ng | 90 |
| 64) Tetrachloroethene | 20.55 | 166 | 943262 | 25.979 | ng | 99 |
| 65) Chlorobenzene | 21.41 | 112 | 2165744 | 26.327 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 3735206 | 26.548 | ng | 95 |
| 67) m- & p-Xylene | 22.12 | 91 | 5991263 | 63.661 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 859773 | 34.862 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 2305790 | 27.408 | ng | 98 |
| 70) o-Xylene | 22.72 | 91 | 3027068 | 29.796 | ng | 93 |
| 71) n-Nonane | 22.98 | 43 | 1841962 | 25.534 | ng | # 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 1373557 | 32.440 | ng | 98 |
| 74) Cumene | 23.47 | 105 | 3588234 | 26.524 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1845992 | 26.390 | ng | 96 |
| 76) n-Propylbenzene | 24.10 | 91 | 4529213 | 26.312 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3721209 | 25.842 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3748103 | 27.920 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 3198689 | 26.374 | ng | 100 |

205/23/08

Data Path : J:\MS13\DATA\2008_05\23\
Data File : 05230801.D
Acq On : 23 May 2008 8:26 am
Operator : RTB
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 23 10:18:18 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1739709 | 26.495 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3638985 | 24.936 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 3415853 | 27.664 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 1799048 | 26.481 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 2621384 | 31.639 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 2045099 | 26.492 | ng | 99 |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 2041589 | 27.280 | ng | 100 |
| 87) sec-Butylbenzene | 25.21 | 105 | 4227181 | 26.785 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3995702 | 30.757 | ng | 95 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 3370568 | 27.898 | ng | 99 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1979822 | 27.041 | ng | 99 |
| 91) d-Limonene | 25.58 | 68 | 1338701 | 27.213 | ng | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 673218 | 29.628 | ng | 95 |
| 93) n-Undecane | 26.50 | 57 | 1919211 | 26.993 | ng | 84 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1497529 | 27.925 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 4427989 | 27.189 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1931547 | 27.316 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 982717 | 27.529 | ng | 100 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Ros/23/08

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 12:15:25 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

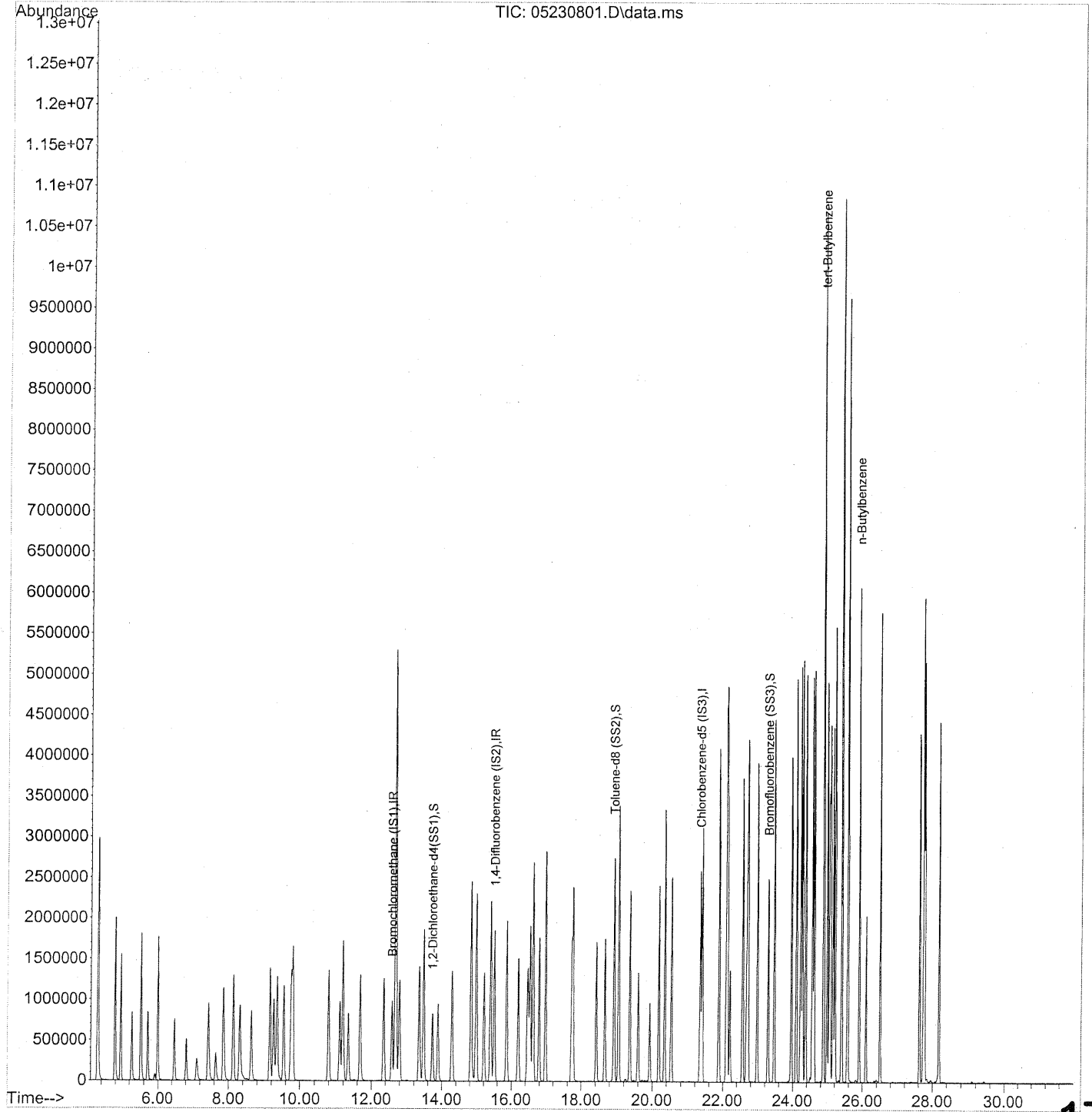
| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 IR | Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 122 | -0.01 |
| 2 S | 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.651 | 4.7 | 117 | -0.02 |
| 3 IR | 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 120 | -0.01 |
| 4 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 116 | 0.00 |
| 5 S | Toluene-d8 (SS2) | 2.245 | 2.271 | -1.2 | 119 | -0.01 |
| 6 S | Bromofluorobenzene (SS3) | 0.913 | 0.941 | -3.1 | 118 | 0.00 |
| 7 | tert-Butylbenzene | 2.936 | 2.994 | -2.0 | 111 | -0.01 |
| 8 | n-Butylbenzene | 3.247 | 3.305 | -1.8 | 110 | -0.01 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 12:15:25 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



1791

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 12:15:25 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|--------------------------------|--------|------|----------|--------|---------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 507961 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2149451 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1005118 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 838693 | 23.829 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 95.32% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2282943 | 25.290 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 101.16% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 946217 | 25.777 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 103.12% | |
| Target Compounds | | | | | | Qvalue |
| 7) tert-Butylbenzene | 24.88 | 119 | 3129965 | 26.518 | ng | 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 3561106 | 27.282 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260801.D
Acq On : 26 May 2008 9:27
Operator : WA
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 10:15:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----------------------------------|-------|-------|-------|-------|----------|
| 1 IR Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 131 | 0.00 |
| 2 T Propene | 1.974 | 1.584 | 19.8 | 123 | -0.02 |
| 3 T Dichlorodifluoromethane | 3.639 | 3.077 | 15.4 | 122 | -0.02 |
| 4 T Chloromethane | 2.357 | 2.203 | 6.5 | 124 | -0.02 |
| 5 T Freon 114 | 1.790 | 1.601 | 10.6 | 131 | -0.02 |
| 6 T Vinyl Chloride | 2.358 | 2.113 | 10.4 | 126 | -0.02 |
| 7 T 1,3-Butadiene | 1.754 | 1.667 | 5.0 | 123 | -0.02 |
| 8 T Bromomethane | 1.313 | 1.203 | 8.4 | 129 | -0.01 |
| 9 T Chloroethane | 1.120 | 1.043 | 6.9 | 130 | -0.01 |
| 10 T Ethanol | 1.314 | 1.185 | 9.8 | 131 | 0.02 |
| 11 T Acetonitrile | 3.801 | 3.050 | 19.8 | 125 | 0.00 |
| 12 T Acrolein | 0.939 | 0.867 | 7.7 | 125 | -0.01 |
| 13 T Acetone | 1.346 | 1.113 | 17.3 | 125 | 0.00 |
| 14 T Trichlorofluoromethane | 3.122 | 2.739 | 12.3 | 124 | 0.00 |
| 15 T Isopropanol | 4.292 | 3.717 | 13.4 | 120 | 0.02 |
| 16 T Acrylonitrile | 2.049 | 1.942 | 5.2 | 123 | 0.00 |
| 17 T 1,1-Dichloroethene | 1.373 | 1.262 | 8.1 | 127 | -0.01 |
| 18 T tert-Butanol | 3.651 | 3.579 | 2.0 | 125 | 0.02 |
| 19 T Methylene Chloride | 1.504 | 1.299 | 13.6 | 125 | 0.00 |
| 20 T Allyl Chloride | 2.007 | 2.130 | -6.1 | 124 | 0.00 |
| 21 T Trichlorotrifluoroethane | 1.420 | 1.287 | 9.4 | 130 | 0.00 |
| 22 T Carbon Disulfide | 5.707 | 5.075 | 11.1 | 126 | 0.00 |
| 23 T trans-1,2-Dichloroethene | 2.225 | 2.041 | 8.3 | 125 | 0.00 |
| 24 T 1,1-Dichloroethane | 2.610 | 2.354 | 9.8 | 125 | 0.00 |
| 25 T Methyl tert-Butyl Ether | 4.352 | 3.915 | 10.0 | 124 | 0.00 |
| 26 T Vinyl Acetate | 0.249 | 0.289 | -16.1 | 133 | 0.00 |
| 27 T 2-Butanone | 0.982 | 0.886 | 9.8 | 122 | 0.00 |
| 28 T cis-1,2-Dichloroethene | 2.126 | 1.867 | 12.2 | 122 | 0.00 |
| 29 T Diisopropyl Ether | 1.204 | 1.069 | 11.2 | 122 | 0.00 |
| 30 T Ethyl Acetate | 0.530 | 0.494 | 6.8 | 122 | 0.00 |
| 31 T n-Hexane | 2.676 | 2.354 | 12.0 | 119 | 0.00 |
| 32 T Chloroform | 2.280 | 1.955 | 14.3 | 122 | 0.02 |
| 33 S 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.591 | 8.1 | 122 | 0.00 |
| 34 T Tetrahydrofuran | 0.939 | 0.845 | 10.0 | 121 | 0.00 |
| 35 T Ethyl tert-Butyl Ether | 1.686 | 1.527 | 9.4 | 122 | 0.00 |
| 36 T 1,2-Dichloroethane | 2.202 | 1.877 | 14.8 | 118 | 0.00 |
| 37 IR 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 129 | 0.00 |
| 38 T 1,1,1-Trichloroethane | 0.569 | 0.510 | 10.4 | 123 | 0.00 |

RT 5/28/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 10:15:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|--------------------------------|-------|-------|------|-------|----------|
| 39 T Isopropyl Acetate | 0.214 | 0.216 | -0.9 | 123 | 0.00 |
| 40 T 1-Butanol | 0.344 | 0.350 | -1.7 | 122 | 0.00 |
| 41 T Benzene | 1.309 | 1.166 | 10.9 | 120 | 0.00 |
| 42 T Carbon Tetrachloride | 0.504 | 0.477 | 5.4 | 122 | 0.00 |
| 43 T Cyclohexane | 0.509 | 0.463 | 9.0 | 125 | 0.00 |
| 44 T tert-Amyl Methyl Ether | 0.939 | 0.876 | 6.7 | 123 | 0.00 |
| 45 T 1,2-Dichloropropane | 0.350 | 0.321 | 8.3 | 123 | 0.00 |
| 46 T Bromodichloromethane | 0.442 | 0.414 | 6.3 | 124 | 0.00 |
| 47 T Trichloroethene | 0.402 | 0.347 | 13.7 | 127 | 0.00 |
| 48 T 1,4-Dioxane | 0.247 | 0.231 | 6.5 | 126 | 0.00 |
| 49 T Isooctane | 1.501 | 1.372 | 8.6 | 122 | 0.00 |
| 50 T Methyl Methacrylate | 0.131 | 0.132 | -0.8 | 124 | 0.00 |
| 51 T n-Heptane | 0.348 | 0.322 | 7.5 | 120 | 0.00 |
| 52 T cis-1,3-Dichloropropene | 0.520 | 0.509 | 2.1 | 123 | 0.00 |
| 53 T 4-Methyl-2-pentanone | 0.348 | 0.329 | 5.5 | 120 | 0.00 |
| 54 T trans-1,3-Dichloropropene | 0.449 | 0.457 | -1.8 | 122 | 0.00 |
| 55 T 1,1,2-Trichloroethane | 0.323 | 0.299 | 7.4 | 123 | 0.00 |
| 56 I Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 57 S Toluene-d8 (SS2) | 2.245 | 2.289 | -2.0 | 125 | 0.00 |
| 58 T Toluene | 3.052 | 2.869 | 6.0 | 120 | 0.00 |
| 59 T 2-Hexanone | 2.103 | 2.042 | 2.9 | 113 | 0.00 |
| 60 T Dibromochloromethane | 0.824 | 0.841 | -2.1 | 122 | 0.00 |
| 61 T 1,2-Dibromoethane | 0.799 | 0.791 | 1.0 | 124 | 0.00 |
| 62 T Butyl Acetate | 2.135 | 2.116 | 0.9 | 114 | 0.00 |
| 63 T n-Octane | 0.675 | 0.651 | 3.6 | 119 | 0.00 |
| 64 T Tetrachloroethene | 0.903 | 0.875 | 3.1 | 126 | 0.00 |
| 65 T Chlorobenzene | 2.046 | 1.959 | 4.3 | 122 | 0.00 |
| 66 T Ethylbenzene | 3.500 | 3.362 | 3.9 | 118 | 0.00 |
| 67 T m- & p-Xylene | 2.341 | 2.244 | 4.1 | 116 | 0.01 |
| 68 T Bromoform | 0.613 | 0.657 | -7.2 | 122 | 0.00 |
| 69 T Styrene | 2.092 | 2.079 | 0.6 | 118 | 0.00 |
| 70 T o-Xylene | 2.527 | 2.400 | 5.0 | 117 | 0.00 |
| 71 T n-Nonane | 1.794 | 1.691 | 5.7 | 112 | 0.00 |
| 72 T 1,1,2,2-Tetrachloroethane | 1.053 | 1.099 | -4.4 | 118 | 0.00 |
| 73 S Bromofluorobenzene (SS3) | 0.913 | 0.942 | -3.2 | 123 | 0.00 |
| 74 T Cumene | 3.365 | 3.230 | 4.0 | 118 | 0.00 |
| 75 T alpha-Pinene | 1.740 | 1.703 | 2.1 | 118 | 0.00 |
| 76 T n-Propylbenzene | 4.282 | 4.139 | 3.3 | 114 | 0.00 |

WA 5/28/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 10:15:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

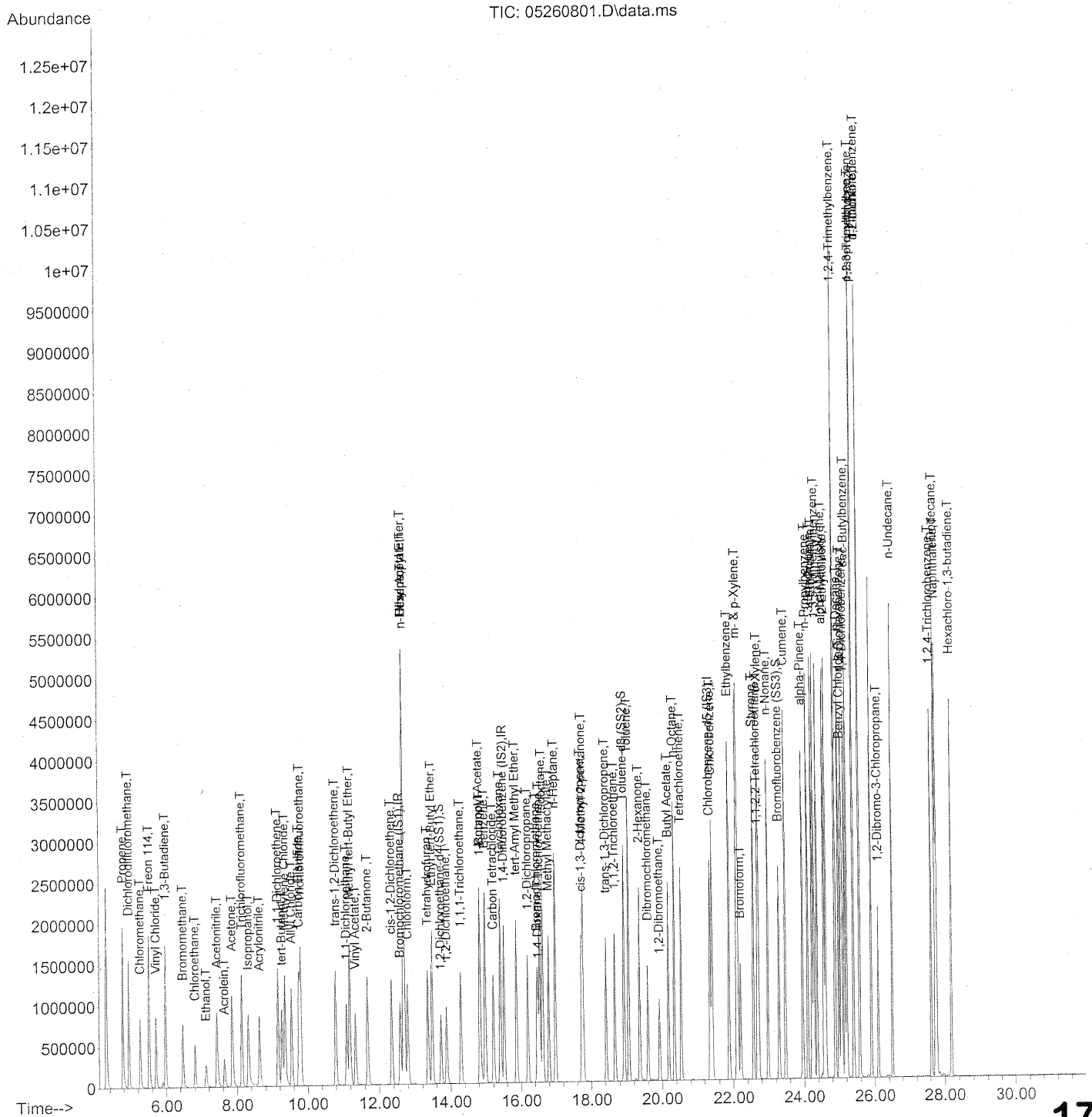
| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----------------------------------|-------|-------|-------|-------|----------|
| 77 T 3-Ethyltoluene | 3.582 | 3.543 | 1.1 | 116 | 0.00 |
| 78 T 4-Ethyltoluene | 3.339 | 3.256 | 2.5 | 114 | 0.00 |
| 79 T 1,3,5-Trimethylbenzene | 3.017 | 2.873 | 4.8 | 115 | 0.00 |
| 80 T alpha-Methylstyrene | 1.633 | 1.661 | -1.7 | 115 | 0.00 |
| 81 T 2-Ethyltoluene | 3.630 | 3.551 | 2.2 | 114 | 0.00 |
| 82 T 1,2,4-Trimethylbenzene | 3.071 | 2.998 | 2.4 | 112 | 0.00 |
| 83 T n-Decane | 1.690 | 1.647 | 2.5 | 111 | 0.00 |
| 84 T Benzyl Chloride | 2.061 | 2.400 | -16.4 | 116 | 0.00 |
| 85 T 1,3-Dichlorobenzene | 1.920 | 1.888 | 1.7 | 116 | 0.00 |
| 86 T 1,4-Dichlorobenzene | 1.861 | 1.829 | 1.7 | 116 | 0.00 |
| 87 T sec-Butylbenzene | 3.925 | 3.822 | 2.6 | 114 | 0.00 |
| 88 T p-Isopropyltoluene | 3.231 | 3.278 | -1.5 | 113 | 0.00 |
| 89 T 1,2,3-Trimethylbenzene | 3.005 | 2.949 | 1.9 | 111 | 0.00 |
| 90 T 1,2-Dichlorobenzene | 1.821 | 1.801 | 1.1 | 115 | 0.00 |
| 91 T d-Limonene | 1.224 | 1.203 | 1.7 | 109 | 0.00 |
| 92 T 1,2-Dibromo-3-Chloropropane | 0.565 | 0.650 | -15.0 | 120 | 0.00 |
| 93 T n-Undecane | 1.768 | 1.740 | 1.6 | 112 | 0.00 |
| 94 T 1,2,4-Trichlorobenzene | 1.334 | 1.345 | -0.8 | 121 | 0.00 |
| 95 T Naphthalene | 4.051 | 4.133 | -2.0 | 116 | 0.00 |
| 96 T n-Dodecane | 1.759 | 1.759 | 0.0 | 113 | 0.00 |
| 97 T Hexachloro-1,3-butadiene | 0.888 | 0.883 | 0.6 | 122 | 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260801.D
Acq On : 26 May 2008 9:27
Operator : WA
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 10:15:49 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 10:15:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 547571 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2313827 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1052805 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|---------------------------------|-------|------|------------|--------|-------|-----------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 870970 | 22.956 | ng | 0.00 |
| Spiked Amount | | | Recovery = | 25.000 | | 91.84% |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2410394 | 25.493 | ng | 0.00 |
| Spiked Amount | | | Recovery = | 25.000 | | 101.96% |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 991682 | 25.792 | ng | 0.00 |
| Spiked Amount | | | Recovery = | 25.000 | | 103.16% |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.78 | 42 | 936884 | 21.664 | ng | 90 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 1752142 | 21.981 | ng | 100 |
| 4) Chloromethane | 5.26 | 50 | 1230248 | 23.834 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 939655 | 23.963 | ng | 100 |
| 6) Vinyl Chloride | 5.71 | 62 | 1194186 | 23.123 | ng | 96 |
| 7) 1,3-Butadiene | 5.99 | 54 | 997013 | 25.953 | ng | # 80 |
| 8) Bromomethane | 6.48 | 94 | 693015 | 24.095 | ng | 98 |
| 9) Chloroethane | 6.81 | 64 | 600528 | 24.478 | ng | 95 |
| 10) Ethanol | 7.12 | 45 | 591811 | 20.556 | ng | 94 |
| 11) Acetonitrile | 7.43 | 41 | 1636605 | 19.657 | ng | 97 |
| 12) Acrolein | 7.64 | 56 | 455915 | 22.168 | ng | 98 |
| 13) Acetone | 7.85 | 58 | 677965 | 23.000 | ng | # 67 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1559928 | 22.809 | ng | 99 |
| 15) Isopropanol | 8.32 | 45 | 2100588 | 22.344 | ng | 97 |
| 16) Acrylonitrile | 8.63 | 53 | 1076166 | 23.978 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.15 | 96 | 782292 | 26.004 | ng | # 77 |
| 18) tert-Butanol | 9.27 | 59 | 1998972 | 24.999 | ng | 97 |
| 19) Methylene Chloride | 9.36 | 84 | 796949 | 24.192 | ng | # 77 |
| 20) Allyl Chloride | 9.54 | 41 | 1226746 | 27.909 | ng | 100 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 803432 | 25.833 | ng | 92 |
| 22) Carbon Disulfide | 9.76 | 76 | 2778979 | 22.230 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 1229258 | 25.227 | ng | 83 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1433628 | 25.080 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 2383692 | 25.007 | ng | 85 |
| 26) Vinyl Acetate | 11.34 | 86 | 154877 | 28.430 | ng | # 85 |
| 27) 2-Butanone | 11.68 | 72 | 543606 | 25.268 | ng | # 90 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 1136884 | 24.412 | ng | 81 |
| 29) Diisopropyl Ether | 12.69 | 87 | 604082 | 22.915 | ng | # 90 |
| 30) Ethyl Acetate | 12.69 | 61 | 344014 | 29.621 | ng | 77 |
| 31) n-Hexane | 12.70 | 57 | 1443533 | 24.633 | ng | 89 |

1797

5/28/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 10:15:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.80 | 83 | 1383058 | 27.699 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 514777 | 25.029 | ng # | 91 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 879420 | 23.821 | ng # | 74 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 1130379 | 23.432 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1298093 | 24.634 | ng | 96 |
| 39) Isopropyl Acetate | 14.83 | 61 | 504635 | 25.534 | ng # | 53 |
| 40) 1-Butanol | 14.84 | 56 | 737605 | 23.192 | ng # | 68 |
| 41) Benzene | 14.99 | 78 | 2968821 | 24.505 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 1183621 | 25.368 | ng | 100 |
| 43) Cyclohexane | 15.41 | 84 | 1191348 | 25.278 | ng # | 74 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 2107568 | 24.250 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 810203 | 24.994 | ng | 99 |
| 46) Bromodichloromethane | 16.46 | 83 | 1103358 | 26.943 | ng | 100 |
| 47) Trichloroethene | 16.54 | 130 | 914060 | 24.595 | ng | 98 |
| 48) 1,4-Dioxane | 16.49 | 88 | 616166 | 26.965 | ng | 80 |
| 49) Isooctane | 16.62 | 57 | 3300864 | 23.764 | ng | 84 |
| 50) Methyl Methacrylate | 16.79 | 100 | 322870 | 26.669 | ng | 91 |
| 51) n-Heptane | 16.98 | 71 | 828783 | 25.745 | ng # | 79 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 1225313 | 25.443 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 801504 | 24.917 | ng | 79 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 1226405 | 29.521 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 755897 | 25.248 | ng | 97 |
| 58) Toluene | 19.06 | 91 | 3322569 | 25.851 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 2192290 | 24.754 | ng | 84 |
| 60) Dibromochloromethane | 19.60 | 129 | 985149 | 28.379 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 909194 | 27.026 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 2343446 | 26.070 | ng | 88 |
| 63) n-Octane | 20.35 | 57 | 713320 | 25.095 | ng | 90 |
| 64) Tetrachloroethene | 20.54 | 166 | 1005649 | 26.443 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 2269097 | 26.334 | ng | 99 |
| 66) Ethylbenzene | 21.89 | 91 | 3823063 | 25.941 | ng | 95 |
| 67) m- & p-Xylene | 22.13 | 91 | 6095554 | 61.835 | ng | 93 |
| 68) Bromoform | 22.21 | 173 | 907008 | 35.112 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 2363476 | 26.821 | ng | 97 |
| 70) o-Xylene | 22.72 | 91 | 3083114 | 28.973 | ng | 95 |
| 71) n-Nonane | 22.98 | 43 | 1837681 | 24.321 | ng | 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 1424917 | 32.129 | ng | 97 |
| 74) Cumene | 23.47 | 105 | 3672763 | 25.919 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1900309 | 25.936 | ng | 97 |
| 76) n-Propylbenzene | 24.10 | 91 | 4584628 | 25.427 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3804826 | 25.226 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3811890 | 27.109 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 3266893 | 25.717 | ng | 100 |

1798

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 10:15:49 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1784194 | 25.942 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3708693 | 24.262 | ng | 99 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 3472462 | 26.849 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 1803172 | 25.340 | ng | 84 |
| 84) Benzyl Chloride | 25.05 | 91 | 2708975 | 31.215 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 2107463 | 26.063 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 2118284 | 27.023 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 4313863 | 26.096 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 4072364 | 29.928 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 3415434 | 26.989 | ng | 99 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 2047838 | 26.703 | ng | 99 |
| 91) d-Limonene | 25.58 | 68 | 1342967 | 26.063 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 711317 | 29.887 | ng | 95 |
| 93) n-Undecane | 26.50 | 57 | 1927184 | 25.877 | ng | 83 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 1585643 | 28.229 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 4577646 | 26.834 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1962624 | 26.499 | ng | 81 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 1033788 | 27.647 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/28/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27 am
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:02:00 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

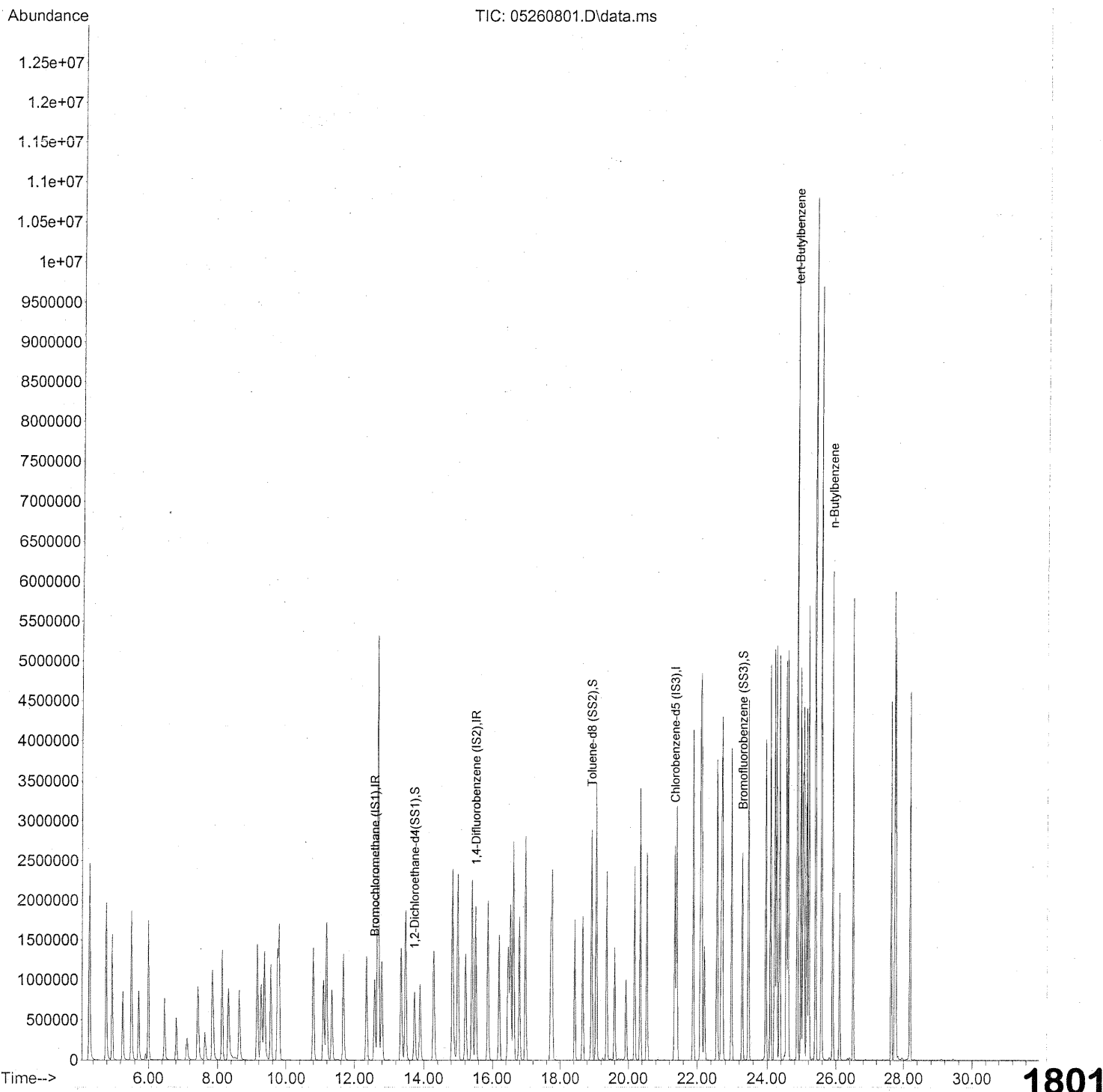
| | Compound | AvgRF | CCRF | %Dev | Area% | Dev (min) |
|------|-----------------------------|-------|-------|------|-------|-----------|
| 1 IR | Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 131 | -0.01 |
| 2 S | 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.591 | 8.1 | 122 | -0.02 |
| 3 IR | 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 129 | -0.01 |
| 4 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 5 S | Toluene-d8 (SS2) | 2.245 | 2.289 | -2.0 | 125 | -0.01 |
| 6 S | Bromofluorobenzene (SS3) | 0.913 | 0.942 | -3.2 | 123 | 0.00 |
| 7 | tert-Butylbenzene | 2.936 | 2.928 | 0.3 | 114 | -0.01 |
| 8 | n-Butylbenzene | 3.247 | 3.190 | 1.8 | 111 | -0.01 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2008_05\26\
Data File : 05260801.D
Acq On : 26 May 2008 9:27 am
Operator : WA
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:02:00 2008
Quant Method : J:\MS13\METHODS\S13052208.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Sun May 25 20:32:30 2008
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27 am
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:02:00 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 547571 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 2313827 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 1052805 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 870970 | 22.956 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 91.84% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2410394 | 25.493 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 101.96% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 991682 | 25.792 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 103.16% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 3205835 | 25.931 | ng | 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 3600695 | 26.336 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:17:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----|-------------------------------|-------|-------|------|-------|----------|
| 1 | IR Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 109 | 0.00 |
| 2 | T Propene | 1.974 | 1.573 | 20.3 | 101 | 0.00 |
| 3 | T Dichlorodifluoromethane | 3.639 | 2.851 | 21.7 | 93 | -0.01 |
| 4 | T Chloromethane | 2.357 | 2.177 | 7.6 | 101 | -0.01 |
| 5 | T Freon 114 | 1.790 | 1.542 | 13.9 | 104 | -0.01 |
| 6 | T Vinyl Chloride | 2.358 | 2.072 | 12.1 | 102 | -0.01 |
| 7 | T 1,3-Butadiene | 1.754 | 1.683 | 4.0 | 102 | -0.01 |
| 8 | T Bromomethane | 1.313 | 1.193 | 9.1 | 106 | 0.00 |
| 9 | T Chloroethane | 1.120 | 1.020 | 8.9 | 106 | 0.00 |
| 10 | T Ethanol | 1.314 | 1.134 | 13.7 | 103 | 0.02 |
| 11 | T Acetonitrile | 3.801 | 3.075 | 19.1 | 104 | 0.00 |
| 12 | T Acrolein | 0.939 | 0.851 | 9.4 | 101 | 0.00 |
| 13 | T Acetone | 1.346 | 1.120 | 16.8 | 104 | 0.00 |
| 14 | T Trichlorofluoromethane | 3.122 | 2.768 | 11.3 | 103 | 0.00 |
| 15 | T Isopropanol | 4.292 | 3.716 | 13.4 | 100 | 0.02 |
| 16 | T Acrylonitrile | 2.049 | 1.961 | 4.3 | 102 | 0.00 |
| 17 | T 1,1-Dichloroethene | 1.373 | 1.231 | 10.3 | 102 | 0.00 |
| 18 | T tert-Butanol | 3.651 | 3.575 | 2.1 | 103 | 0.02 |
| 19 | T Methylene Chloride | 1.504 | 1.273 | 15.4 | 101 | 0.00 |
| 20 | T Allyl Chloride | 2.007 | 2.113 | -5.3 | 102 | 0.00 |
| 21 | T Trichlorotrifluoroethane | 1.420 | 1.247 | 12.2 | 104 | 0.00 |
| 22 | T Carbon Disulfide | 5.707 | 5.052 | 11.5 | 103 | 0.00 |
| 23 | T trans-1,2-Dichloroethene | 2.225 | 2.016 | 9.4 | 102 | 0.00 |
| 24 | T 1,1-Dichloroethane | 2.610 | 2.355 | 9.8 | 103 | 0.00 |
| 25 | T Methyl tert-Butyl Ether | 4.352 | 3.900 | 10.4 | 102 | 0.00 |
| 26 | T Vinyl Acetate | 0.249 | 0.269 | -8.0 | 103 | 0.01 |
| 27 | T 2-Butanone | 0.982 | 0.879 | 10.5 | 100 | 0.00 |
| 28 | T cis-1,2-Dichloroethene | 2.126 | 1.903 | 10.5 | 102 | 0.00 |
| 29 | T Diisopropyl Ether | 1.204 | 1.078 | 10.5 | 102 | 0.00 |
| 30 | T Ethyl Acetate | 0.530 | 0.505 | 4.7 | 103 | 0.01 |
| 31 | T n-Hexane | 2.676 | 2.371 | 11.4 | 99 | 0.00 |
| 32 | T Chloroform | 2.280 | 1.959 | 14.1 | 101 | 0.02 |
| 33 | S 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.643 | 5.1 | 104 | 0.00 |
| 34 | T Tetrahydrofuran | 0.939 | 0.848 | 9.7 | 100 | 0.00 |
| 35 | T Ethyl tert-Butyl Ether | 1.686 | 1.531 | 9.2 | 101 | 0.00 |
| 36 | T 1,2-Dichloroethane | 2.202 | 1.892 | 14.1 | 99 | 0.00 |
| 37 | IR 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 38 | T 1,1,1-Trichloroethane | 0.569 | 0.511 | 10.2 | 102 | 0.00 |

1803

RA 5/31/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:17:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|------|---------------------------|-------|-------|------|-------|----------|
| 39 T | Isopropyl Acetate | 0.214 | 0.216 | -0.9 | 102 | 0.00 |
| 40 T | 1-Butanol | 0.344 | 0.351 | -2.0 | 102 | 0.00 |
| 41 T | Benzene | 1.309 | 1.179 | 9.9 | 101 | 0.00 |
| 42 T | Carbon Tetrachloride | 0.504 | 0.480 | 4.8 | 101 | 0.00 |
| 43 T | Cyclohexane | 0.509 | 0.460 | 9.6 | 103 | 0.00 |
| 44 T | tert-Amyl Methyl Ether | 0.939 | 0.868 | 7.6 | 101 | 0.00 |
| 45 T | 1,2-Dichloropropane | 0.350 | 0.320 | 8.6 | 102 | 0.00 |
| 46 T | Bromodichloromethane | 0.442 | 0.414 | 6.3 | 103 | 0.01 |
| 47 T | Trichloroethene | 0.402 | 0.335 | 16.7 | 102 | 0.00 |
| 48 T | 1,4-Dioxane | 0.247 | 0.230 | 6.9 | 104 | 0.00 |
| 49 T | Isooctane | 1.501 | 1.385 | 7.7 | 102 | 0.00 |
| 50 T | Methyl Methacrylate | 0.131 | 0.131 | 0.0 | 102 | 0.00 |
| 51 T | n-Heptane | 0.348 | 0.324 | 6.9 | 100 | 0.00 |
| 52 T | cis-1,3-Dichloropropene | 0.520 | 0.508 | 2.3 | 102 | 0.00 |
| 53 T | 4-Methyl-2-pentanone | 0.348 | 0.335 | 3.7 | 101 | 0.00 |
| 54 T | trans-1,3-Dichloropropene | 0.449 | 0.455 | -1.3 | 101 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 0.323 | 0.299 | 7.4 | 102 | 0.00 |
| 56 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 57 S | Toluene-d8 (SS2) | 2.245 | 2.243 | 0.1 | 106 | 0.00 |
| 58 T | Toluene | 3.052 | 2.784 | 8.8 | 101 | 0.00 |
| 59 T | 2-Hexanone | 2.103 | 2.045 | 2.8 | 98 | 0.00 |
| 60 T | Dibromochloromethane | 0.824 | 0.808 | 1.9 | 101 | 0.00 |
| 61 T | 1,2-Dibromoethane | 0.799 | 0.754 | 5.6 | 102 | 0.00 |
| 62 T | Butyl Acetate | 2.135 | 2.110 | 1.2 | 99 | 0.00 |
| 63 T | n-Octane | 0.675 | 0.641 | 5.0 | 101 | 0.00 |
| 64 T | Tetrachloroethene | 0.903 | 0.822 | 9.0 | 102 | 0.00 |
| 65 T | Chlorobenzene | 2.046 | 1.885 | 7.9 | 102 | 0.00 |
| 66 T | Ethylbenzene | 3.500 | 3.308 | 5.5 | 100 | 0.00 |
| 67 T | m- & p-Xylene | 2.341 | 2.220 | 5.2 | 99 | 0.01 |
| 68 T | Bromoform | 0.613 | 0.627 | -2.3 | 101 | 0.00 |
| 69 T | Styrene | 2.092 | 2.038 | 2.6 | 100 | 0.00 |
| 70 T | o-Xylene | 2.527 | 2.367 | 6.3 | 99 | 0.00 |
| 71 T | n-Nonane | 1.794 | 1.708 | 4.8 | 98 | 0.00 |
| 72 T | 1,1,2,2-Tetrachloroethane | 1.053 | 1.077 | -2.3 | 100 | 0.00 |
| 73 S | Bromofluorobenzene (SS3) | 0.913 | 0.931 | -2.0 | 105 | 0.00 |
| 74 T | Cumene | 3.365 | 3.157 | 6.2 | 99 | 0.00 |
| 75 T | alpha-Pinene | 1.740 | 1.660 | 4.6 | 99 | 0.00 |
| 76 T | n-Propylbenzene | 4.282 | 4.150 | 3.1 | 99 | 0.00 |

1804

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:17:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

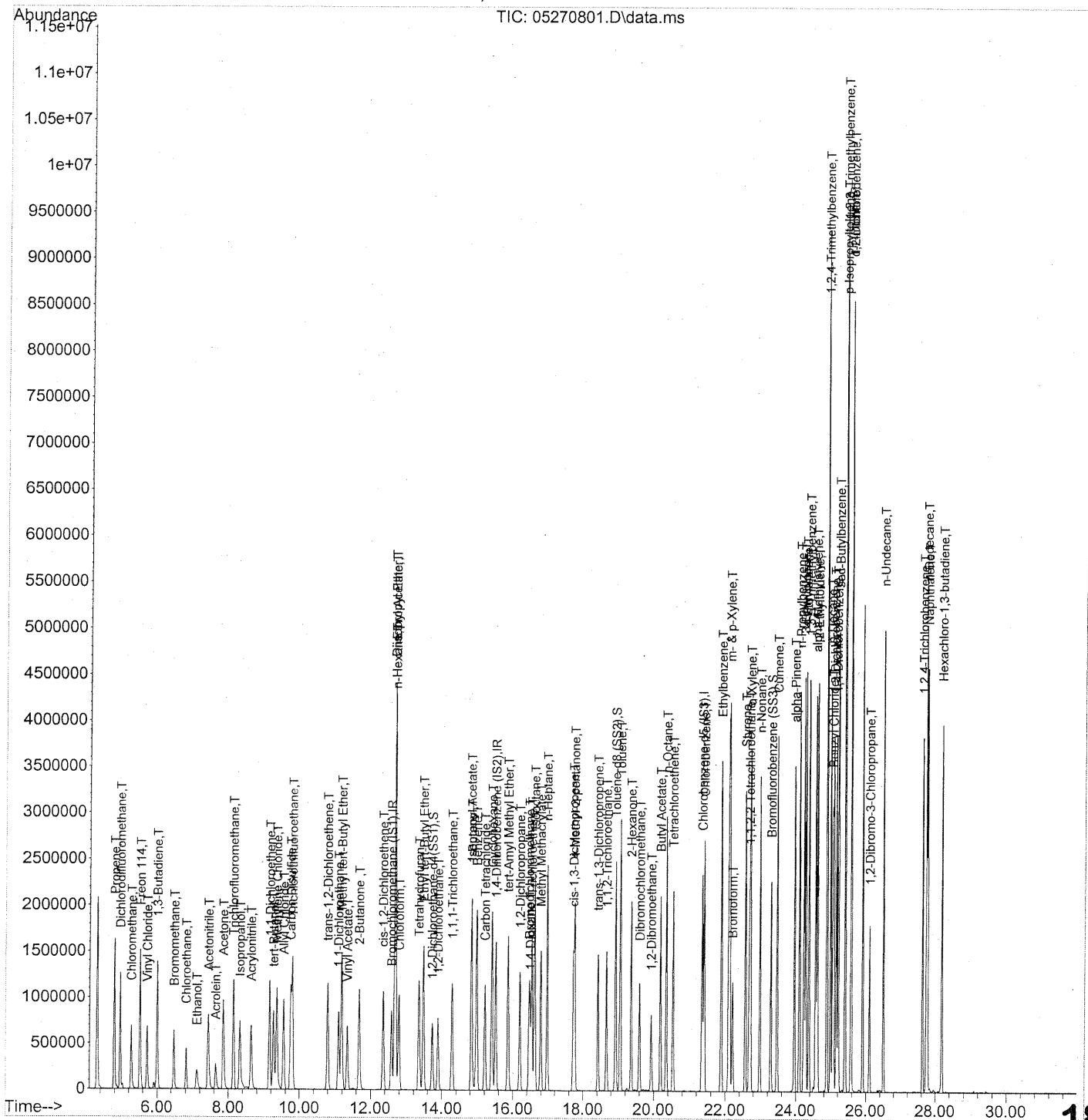
| | Compound | AvgRF | CCRF | %Dev | Area% | Dev (min) |
|------|-----------------------------|-------|-------|-------|-------|-----------|
| 77 T | 3-Ethyltoluene | 3.582 | 3.517 | 1.8 | 99 | 0.00 |
| 78 T | 4-Ethyltoluene | 3.339 | 3.227 | 3.4 | 98 | 0.00 |
| 79 T | 1,3,5-Trimethylbenzene | 3.017 | 2.855 | 5.4 | 98 | 0.00 |
| 80 T | alpha-Methylstyrene | 1.633 | 1.641 | -0.5 | 98 | 0.00 |
| 81 T | 2-Ethyltoluene | 3.630 | 3.529 | 2.8 | 98 | 0.00 |
| 82 T | 1,2,4-Trimethylbenzene | 3.071 | 2.989 | 2.7 | 96 | 0.00 |
| 83 T | n-Decane | 1.690 | 1.658 | 1.9 | 97 | 0.00 |
| 84 T | Benzyl Chloride | 2.061 | 2.323 | -12.7 | 97 | 0.00 |
| 85 T | 1,3-Dichlorobenzene | 1.920 | 1.856 | 3.3 | 99 | 0.00 |
| 86 T | 1,4-Dichlorobenzene | 1.861 | 1.805 | 3.0 | 99 | 0.00 |
| 87 T | sec-Butylbenzene | 3.925 | 3.823 | 2.6 | 98 | 0.00 |
| 88 T | p-Isopropyltoluene | 3.231 | 3.266 | -1.1 | 97 | 0.00 |
| 89 T | 1,2,3-Trimethylbenzene | 3.005 | 2.968 | 1.2 | 97 | 0.00 |
| 90 T | 1,2-Dichlorobenzene | 1.821 | 1.782 | 2.1 | 98 | 0.00 |
| 91 T | d-Limonene | 1.224 | 1.218 | 0.5 | 95 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.565 | 0.629 | -11.3 | 101 | 0.00 |
| 93 T | n-Undecane | 1.768 | 1.761 | 0.4 | 98 | 0.00 |
| 94 T | 1,2,4-Trichlorobenzene | 1.334 | 1.311 | 1.7 | 102 | 0.00 |
| 95 T | Naphthalene | 4.051 | 4.117 | -1.6 | 100 | 0.00 |
| 96 T | n-Dodecane | 1.759 | 1.762 | -0.2 | 98 | 0.00 |
| 97 T | Hexachloro-1,3-butadiene | 0.888 | 0.857 | 3.5 | 102 | 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 7:30
Operator : WA
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:17:02 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1806

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:17:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 452637 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 1917052 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 909333 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | | |
|---------------------------------|--------|-----|----------|-----------|----|------|--|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 743755 | 23.714 | ng | 0.00 | |
| Spiked Amount | 25.000 | | Recovery | = 94.84% | | | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 2039993 | 24.979 | ng | 0.00 | |
| Spiked Amount | 25.000 | | Recovery | = 99.92% | | | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 846681 | 25.495 | ng | 0.00 | |
| Spiked Amount | 25.000 | | Recovery | = 101.96% | | | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 769034 | 21.512 | ng | 88 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 1342257 | 20.370 | ng | 100 |
| 4) Chloromethane | 5.27 | 50 | 1005117 | 23.557 | ng | 97 |
| 5) Freon 114 | 5.52 | 135 | 748034 | 23.078 | ng | 99 |
| 6) Vinyl Chloride | 5.72 | 62 | 967671 | 22.666 | ng | 95 |
| 7) 1,3-Butadiene | 5.99 | 54 | 831947 | 26.198 | ng | # 78 |
| 8) Bromomethane | 6.48 | 94 | 568000 | 23.891 | ng | 99 |
| 9) Chloroethane | 6.82 | 64 | 485898 | 23.960 | ng | 95 |
| 10) Ethanol | 7.12 | 45 | 468298 | 19.677 | ng | 96 |
| 11) Acetonitrile | 7.44 | 41 | 1364018 | 19.819 | ng | 96 |
| 12) Acrolein | 7.64 | 56 | 369944 | 21.760 | ng | 98 |
| 13) Acetone | 7.86 | 58 | 563653 | 23.133 | ng | # 62 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 1303180 | 23.052 | ng | 99 |
| 15) Isopropanol | 8.33 | 45 | 1735957m | 22.339 | ng | |
| 16) Acrylonitrile | 8.64 | 53 | 898107 | 24.207 | ng | 98 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 630518 | 25.355 | ng | # 79 |
| 18) tert-Butanol | 9.27 | 59 | 1650483 | 24.970 | ng | 90 |
| 19) Methylene Chloride | 9.36 | 84 | 645420 | 23.701 | ng | # 82 |
| 20) Allyl Chloride | 9.55 | 41 | 1005956 | 27.686 | ng | 99 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 643619 | 25.035 | ng | 93 |
| 22) Carbon Disulfide | 9.76 | 76 | 2286762 | 22.129 | ng | 97 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 1003594 | 24.915 | ng | 84 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 1185582 | 25.091 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 1962759 | 24.910 | ng | 86 |
| 26) Vinyl Acetate | 11.35 | 86 | 119424 | 26.520 | ng | # 91 |
| 27) 2-Butanone | 11.68 | 72 | 445593 | 25.056 | ng | 95 |
| 28) cis-1,2-Dichloroethene | 12.35 | 61 | 957629 | 24.876 | ng | 84 |
| 29) Diisopropyl Ether | 12.69 | 87 | 503756 | 23.117 | ng | # 90 |
| 30) Ethyl Acetate | 12.69 | 61 | 290919 | 30.303 | ng | 81 |
| 31) n-Hexane | 12.70 | 57 | 1201816 | 24.809 | ng | 80 |

1807

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 10:17:02 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.80 | 83 | 1145422 | 27.751 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 426673 | 25.096 | ng | 94 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 728820 | 23.883 | ng | # 75 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 942043 | 23.624 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 1077206 | 24.673 | ng | 97 |
| 39) Isopropyl Acetate | 14.83 | 61 | 419553 | 25.622 | ng | # 46 |
| 40) 1-Butanol | 14.84 | 56 | 613293 | 23.275 | ng | # 64 |
| 41) Benzene | 14.99 | 78 | 2485900 | 24.766 | ng | 99 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 985502 | 25.493 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 979547 | 25.086 | ng | # 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1730496 | 24.033 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 669010 | 24.909 | ng | 100 |
| 46) Bromodichloromethane | 16.46 | 83 | 915276 | 26.976 | ng | 100 |
| 47) Trichloroethene | 16.54 | 130 | 732328 | 23.783 | ng | 100 |
| 48) 1,4-Dioxane | 16.49 | 88 | 508338 | 26.850 | ng | 81 |
| 49) Isooctane | 16.62 | 57 | 2761418 | 23.995 | ng | 81 |
| 50) Methyl Methacrylate | 16.80 | 100 | 265240 | 26.443 | ng | # 89 |
| 51) n-Heptane | 16.98 | 71 | 690962 | 25.906 | ng | # 80 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 1013708 | 25.406 | ng | 99 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 675739 | 25.356 | ng | 80 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 1011534 | 29.388 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 625563 | 25.220 | ng | 97 |
| 58) Toluene | 19.07 | 91 | 2785031 | 25.088 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 1896361 | 24.791 | ng | 83 |
| 60) Dibromochloromethane | 19.61 | 129 | 817210 | 27.255 | ng | 98 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 748262 | 25.751 | ng | 100 |
| 62) Butyl Acetate | 20.19 | 43 | 2018390 | 25.996 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 605827 | 24.676 | ng | 90 |
| 64) Tetrachloroethene | 20.55 | 166 | 816620 | 24.860 | ng | 100 |
| 65) Chlorobenzene | 21.41 | 112 | 1885638 | 25.337 | ng | 99 |
| 66) Ethylbenzene | 21.89 | 91 | 3248828 | 25.523 | ng | 94 |
| 67) m- & p-Xylene | 22.13 | 91 | 5208772 | 61.176 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 747814 | 33.517 | ng | 98 |
| 69) Styrene | 22.57 | 104 | 2001079 | 26.292 | ng | 98 |
| 70) o-Xylene | 22.71 | 91 | 2625510 | 28.566 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1602665 | 24.557 | ng | # 83 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 1206756 | 31.503 | ng | 97 |
| 74) Cumene | 23.47 | 105 | 3100138 | 25.329 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1599674 | 25.277 | ng | 96 |
| 76) n-Propylbenzene | 24.10 | 91 | 3970279 | 25.494 | ng | 98 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3261754 | 25.038 | ng | 99 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3263038 | 26.867 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 2804177 | 25.557 | ng | 99 |

1808

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 7:30
Operator : WA
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

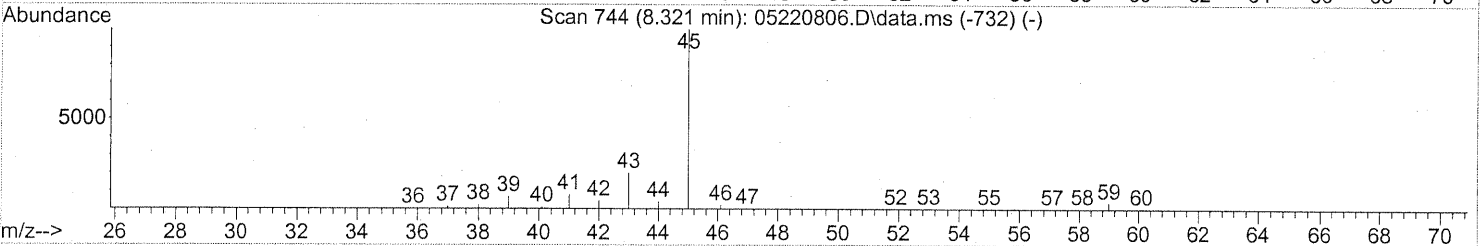
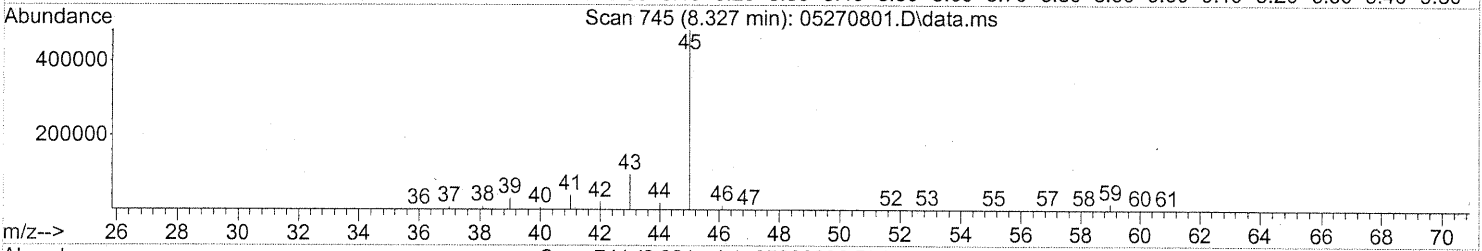
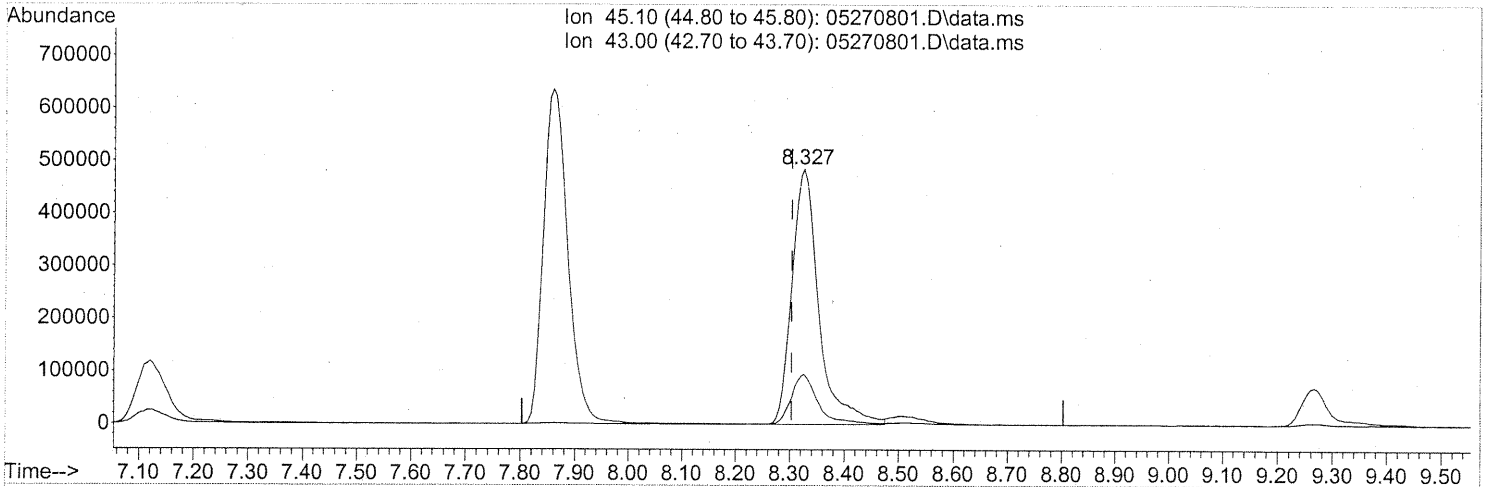
Quant Time: May 31 10:17:02 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1521613 | 25.615 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 3183219 | 24.110 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 2989966 | 26.766 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 1568225 | 25.515 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 2264807 | 30.215 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1788716 | 25.611 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1805520 | 26.667 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 3726837 | 26.102 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 3504178 | 29.815 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 2969012 | 27.163 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1750082 | 26.421 | ng | 99 |
| 91) d-Limonene | 25.58 | 68 | 1173577 | 26.370 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 595005 | 28.944 | ng | 94 |
| 93) n-Undecane | 26.50 | 57 | 1684506 | 26.187 | ng | 84 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 1334898 | 27.515 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 3938171 | 26.728 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1697986 | 26.543 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 867074 | 26.848 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 20:45:38 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



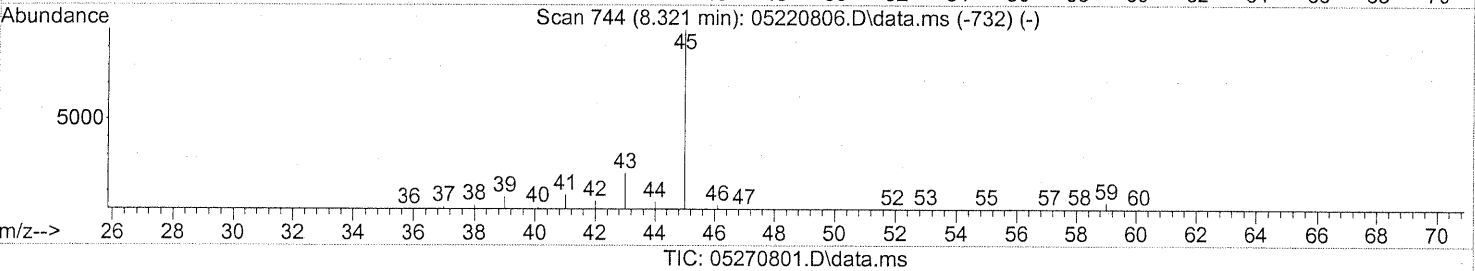
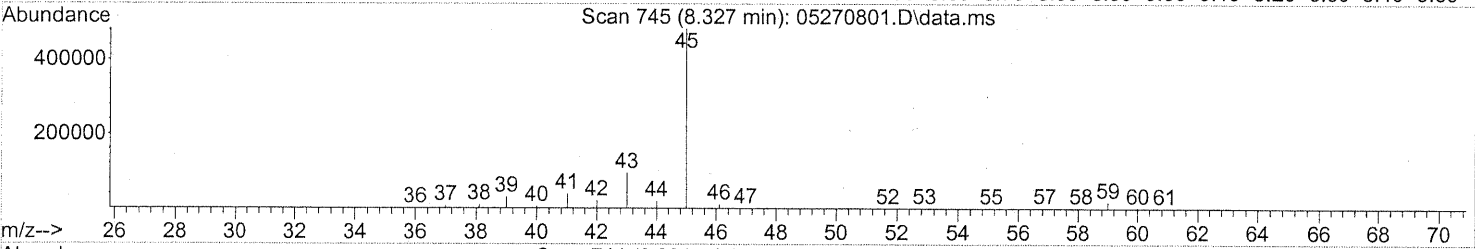
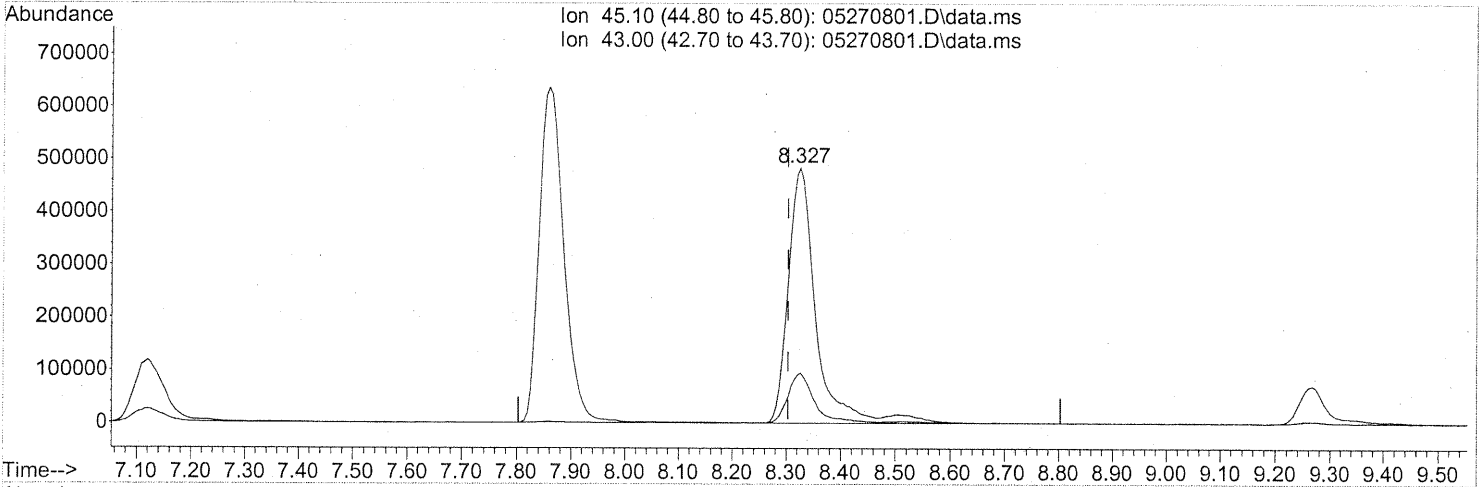
(15) Isopropanol (T)
 8.327min (+0.023) 21.41ng
 response 1664013

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 19.28 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

tailing

Data Path : J:\MS13\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 7:30
Operator : WA
Sample : 25ng TO-15 CCV Standard
Misc : S20-05160801/S20-05210804
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 27 20:45:38 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(15) Isopropanol (T)
8.327min (+0.023) 22.34ng m
response 1735957

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 18.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

*added tailing
5/31/08*

7/06/08

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30 am
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:12:26 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

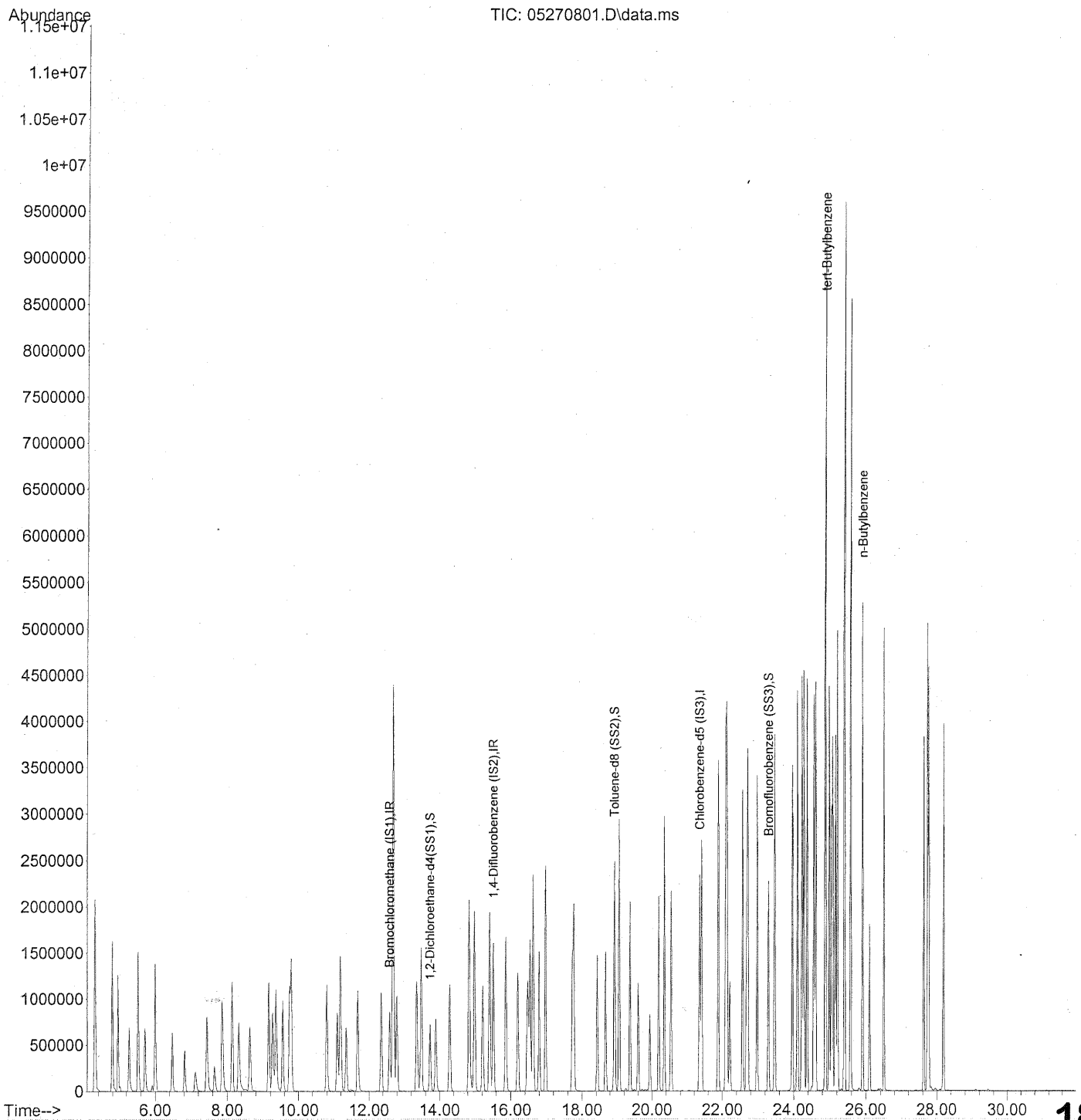
| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 IR | Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 109 | -0.01 |
| 2 S | 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.643 | 5.1 | 104 | -0.02 |
| 3 IR | 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 107 | -0.01 |
| 4 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 105 | 0.00 |
| 5 S | Toluene-d8 (SS2) | 2.245 | 2.243 | 0.1 | 106 | -0.01 |
| 6 S | Bromofluorobenzene (SS3) | 0.913 | 0.931 | -2.0 | 105 | 0.00 |
| 7 | tert-Butylbenzene | 2.936 | 2.910 | 0.9 | 97 | -0.01 |
| 8 | n-Butylbenzene | 3.247 | 3.215 | 1.0 | 97 | -0.01 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30 am
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:12:26 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



1813

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30 am
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:12:26 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 452637 | 25.000 | ng | -0.01 |
| 3) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 1917052 | 25.000 | ng | -0.01 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 909333 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.73 | 65 | 743755 | 23.714 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 94.84% | |
| 5) Toluene-d8 (SS2) | 18.93 | 98 | 2039993 | 24.979 | ng | -0.01 |
| Spiked Amount | 25.000 | | Recovery | = | 99.92% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 846681 | 25.495 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 101.96% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 2751817 | 25.770 | ng | 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 3133554 | 26.535 | ng | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

WA 5/31/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:57:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev (min) |
|----|-------------------------------|-------|-------|------|-------|-----------|
| 1 | IR Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 2 | T Propene | 1.974 | 1.578 | 20.1 | 80 | 0.00 |
| 3 | T Dichlorodifluoromethane | 3.639 | 3.085 | 15.2 | 78 | -0.01 |
| 4 | T Chloromethane | 2.357 | 1.947 | 17.4 | 83 | -0.01 |
| 5 | T Freon 114 | 1.790 | 1.578 | 11.8 | 83 | -0.01 |
| 6 | T Vinyl Chloride | 2.358 | 2.083 | 11.7 | 83 | -0.01 |
| 7 | T 1,3-Butadiene | 1.754 | 1.610 | 8.2 | 83 | -0.01 |
| 8 | T Bromomethane | 1.313 | 1.216 | 7.4 | 90 | -0.01 |
| 9 | T Chloroethane | 1.120 | 1.064 | 5.0 | 88 | 0.00 |
| 10 | T Ethanol | 1.314 | 1.170 | 11.0 | 88 | 0.00 |
| 11 | T Acetonitrile | 3.801 | 3.235 | 14.9 | 84 | -0.01 |
| 12 | T Acrolein | 0.939 | 0.855 | 8.9 | 87 | 0.00 |
| 13 | T Acetone | 1.346 | 1.196 | 11.1 | 87 | 0.00 |
| 14 | T Trichlorofluoromethane | 3.122 | 2.688 | 13.9 | 80 | 0.00 |
| 15 | T Isopropanol | 4.292 | 3.591 | 16.3 | 87 | 0.00 |
| 16 | T Acrylonitrile | 2.049 | 1.837 | 10.3 | 82 | -0.01 |
| 17 | T 1,1-Dichloroethene | 1.373 | 1.260 | 8.2 | 85 | -0.01 |
| 18 | T tert-Butanol | 3.651 | 3.466 | 5.1 | 86 | 0.00 |
| 19 | T Methylene Chloride | 1.504 | 1.289 | 14.3 | 83 | 0.00 |
| 20 | T Allyl Chloride | 2.007 | 1.954 | 2.6 | 86 | 0.00 |
| 21 | T Trichlorotrifluoroethane | 1.420 | 1.281 | 9.8 | 85 | 0.00 |
| 22 | T Carbon Disulfide | 5.707 | 5.007 | 12.3 | 84 | 0.00 |
| 23 | T trans-1,2-Dichloroethene | 2.225 | 1.979 | 11.1 | 82 | 0.00 |
| 24 | T 1,1-Dichloroethane | 2.610 | 2.313 | 11.4 | 82 | 0.00 |
| 25 | T Methyl tert-Butyl Ether | 4.352 | 3.890 | 10.6 | 82 | 0.00 |
| 26 | T Vinyl Acetate | 0.249 | 0.264 | -6.0 | 109 | 0.00 |
| 27 | T 2-Butanone | 0.982 | 0.848 | 13.6 | 81 | 0.00 |
| 28 | T cis-1,2-Dichloroethene | 2.126 | 1.814 | 14.7 | 80 | 0.00 |
| 29 | T Diisopropyl Ether | 1.204 | 1.029 | 14.5 | 80 | 0.00 |
| 30 | T Ethyl Acetate | 0.530 | 0.470 | 11.3 | 82 | 0.00 |
| 31 | T n-Hexane | 2.676 | 2.263 | 15.4 | 78 | 0.00 |
| 32 | T Chloroform | 2.280 | 1.891 | 17.1 | 78 | 0.00 |
| 33 | S 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.572 | 9.2 | 79 | 0.00 |
| 34 | T Tetrahydrofuran | 0.939 | 0.826 | 12.0 | 81 | 0.00 |
| 35 | T Ethyl tert-Butyl Ether | 1.686 | 1.475 | 12.5 | 81 | 0.00 |
| 36 | T 1,2-Dichloroethane | 2.202 | 1.832 | 16.8 | 77 | 0.00 |
| 37 | IR 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 38 | T 1,1,1-Trichloroethane | 0.569 | 0.508 | 10.7 | 79 | 0.00 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:57:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|------|---------------------------|-------|-------|------|-------|----------|
| 39 T | Isopropyl Acetate | 0.214 | 0.202 | 5.6 | 83 | 0.00 |
| 40 T | 1-Butanol | 0.344 | 0.336 | 2.3 | 87 | 0.00 |
| 41 T | Benzene | 1.309 | 1.151 | 12.1 | 80 | 0.00 |
| 42 T | Carbon Tetrachloride | 0.504 | 0.444 | 11.9 | 77 | 0.00 |
| 43 T | Cyclohexane | 0.509 | 0.458 | 10.0 | 82 | 0.00 |
| 44 T | tert-Amyl Methyl Ether | 0.939 | 0.851 | 9.4 | 81 | 0.00 |
| 45 T | 1,2-Dichloropropane | 0.350 | 0.313 | 10.6 | 82 | 0.00 |
| 46 T | Bromodichloromethane | 0.442 | 0.399 | 9.7 | 79 | 0.00 |
| 47 T | Trichloroethene | 0.402 | 0.332 | 17.4 | 79 | 0.00 |
| 48 T | 1,4-Dioxane | 0.247 | 0.227 | 8.1 | 83 | 0.00 |
| 49 T | Isooctane | 1.501 | 1.316 | 12.3 | 79 | 0.00 |
| 50 T | Methyl Methacrylate | 0.131 | 0.123 | 6.1 | 83 | 0.00 |
| 51 T | n-Heptane | 0.348 | 0.310 | 10.9 | 79 | 0.00 |
| 52 T | cis-1,3-Dichloropropene | 0.520 | 0.477 | 8.3 | 80 | 0.00 |
| 53 T | 4-Methyl-2-pentanone | 0.348 | 0.319 | 8.3 | 81 | 0.00 |
| 54 T | trans-1,3-Dichloropropene | 0.449 | 0.430 | 4.2 | 83 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 0.323 | 0.291 | 9.9 | 80 | 0.00 |
| 56 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 57 S | Toluene-d8 (SS2) | 2.245 | 2.275 | -1.3 | 82 | 0.00 |
| 58 T | Toluene | 3.052 | 2.782 | 8.8 | 79 | 0.00 |
| 59 T | 2-Hexanone | 2.103 | 1.943 | 7.6 | 76 | 0.00 |
| 60 T | Dibromochloromethane | 0.824 | 0.784 | 4.9 | 80 | 0.00 |
| 61 T | 1,2-Dibromoethane | 0.799 | 0.748 | 6.4 | 79 | 0.00 |
| 62 T | Butyl Acetate | 2.135 | 2.014 | 5.7 | 79 | 0.00 |
| 63 T | n-Octane | 0.675 | 0.601 | 11.0 | 77 | 0.00 |
| 64 T | Tetrachloroethene | 0.903 | 0.817 | 9.5 | 81 | 0.00 |
| 65 T | Chlorobenzene | 2.046 | 1.854 | 9.4 | 78 | 0.00 |
| 66 T | Ethylbenzene | 3.500 | 3.237 | 7.5 | 78 | 0.00 |
| 67 T | m- & p-Xylene | 2.341 | 2.132 | 8.9 | 78 | 0.00 |
| 68 T | Bromoform | 0.613 | 0.593 | 3.3 | 80 | 0.00 |
| 69 T | Styrene | 2.092 | 1.953 | 6.6 | 79 | 0.00 |
| 70 T | o-Xylene | 2.527 | 2.290 | 9.4 | 77 | 0.00 |
| 71 T | n-Nonane | 1.794 | 1.594 | 11.1 | 74 | 0.00 |
| 72 T | 1,1,2,2-Tetrachloroethane | 1.053 | 1.018 | 3.3 | 77 | 0.00 |
| 73 S | Bromofluorobenzene (SS3) | 0.913 | 0.946 | -3.6 | 83 | 0.00 |
| 74 T | Cumene | 3.365 | 3.046 | 9.5 | 77 | 0.00 |
| 75 T | alpha-Pinene | 1.740 | 1.586 | 8.9 | 78 | 0.00 |
| 76 T | n-Propylbenzene | 4.282 | 3.915 | 8.6 | 76 | 0.00 |

1816

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:57:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 77 T | 3-Ethyltoluene | 3.582 | 3.256 | 9.1 | 77 | 0.00 |
| 78 T | 4-Ethyltoluene | 3.339 | 3.129 | 6.3 | 76 | 0.00 |
| 79 T | 1,3,5-Trimethylbenzene | 3.017 | 2.726 | 9.6 | 76 | 0.00 |
| 80 T | alpha-Methylstyrene | 1.633 | 1.515 | 7.2 | 77 | 0.00 |
| 81 T | 2-Ethyltoluene | 3.630 | 3.319 | 8.6 | 75 | 0.00 |
| 82 T | 1,2,4-Trimethylbenzene | 3.071 | 2.767 | 9.9 | 75 | 0.00 |
| 83 T | n-Decane | 1.690 | 1.534 | 9.2 | 74 | 0.00 |
| 84 T | Benzyl Chloride | 2.061 | 2.077 | -0.8 | 81 | 0.00 |
| 85 T | 1,3-Dichlorobenzene | 1.920 | 1.747 | 9.0 | 76 | 0.00 |
| 86 T | 1,4-Dichlorobenzene | 1.861 | 1.700 | 8.7 | 76 | 0.00 |
| 87 T | sec-Butylbenzene | 3.925 | 3.566 | 9.1 | 74 | 0.00 |
| 88 T | p-Isopropyltoluene | 3.231 | 2.949 | 8.7 | 74 | 0.00 |
| 89 T | 1,2,3-Trimethylbenzene | 3.005 | 2.670 | 11.1 | 73 | 0.00 |
| 90 T | 1,2-Dichlorobenzene | 1.821 | 1.652 | 9.3 | 75 | 0.00 |
| 91 T | d-Limonene | 1.224 | 1.077 | 12.0 | 73 | 0.00 |
| 92 T | 1,2-Dibromo-3-Chloropropane | 0.565 | 0.560 | 0.9 | 78 | 0.00 |
| 93 T | n-Undecane | 1.768 | 1.619 | 8.4 | 75 | 0.00 |
| 94 T | 1,2,4-Trichlorobenzene | 1.334 | 1.225 | 8.2 | 79 | 0.00 |
| 95 T | Naphthalene | 4.051 | 3.837 | 5.3 | 78 | 0.00 |
| 96 T | n-Dodecane | 1.759 | 1.586 | 9.8 | 76 | 0.00 |
| 97 T | Hexachloro-1,3-butadiene | 0.888 | 0.818 | 7.9 | 78 | 0.00 |

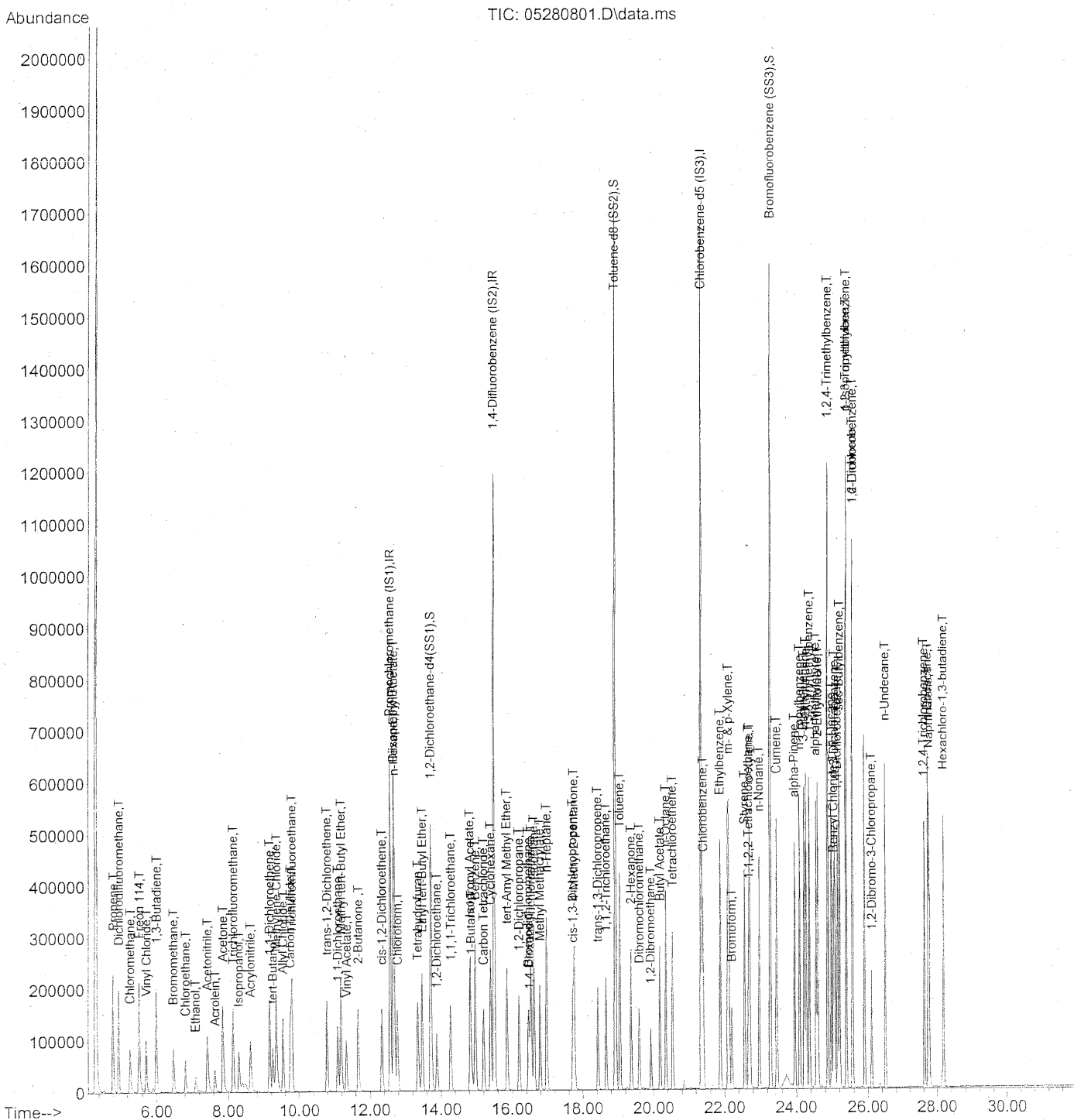
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

WA 5/29/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:57:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:57:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|--------------------------------|--------|------|----------|--------|---------|----------|--------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 337782 | 25.000 | ng | 0.00 | |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1418631 | 25.000 | ng | 0.00 | |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 650717 | 25.000 | ng | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 530920 | 22.684 | ng | 0.00 | |
| Spiked Amount | 25.000 | | Recovery | = | 90.72% | | |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1480387 | 25.331 | ng | 0.00 | |
| Spiked Amount | 25.000 | | Recovery | = | 101.32% | | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 615493 | 25.899 | ng | 0.00 | |
| Spiked Amount | 25.000 | | Recovery | = | 103.60% | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propene | 4.79 | 42 | 115136 | 4.316 | ng | | 90 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 216747 | 4.408 | ng | | 100 |
| 4) Chloromethane | 5.27 | 50 | 134176 | 4.214 | ng | | 97 |
| 5) Freon 114 | 5.52 | 135 | 114071 | 4.716 | ng | | 99 |
| 6) Vinyl Chloride | 5.72 | 62 | 144934 | 4.549 | ng | | 96 |
| 7) 1,3-Butadiene | 5.99 | 54 | 118546 | 5.002 | ng | # | 80 |
| 8) Bromomethane | 6.48 | 94 | 86246 | 4.861 | ng | | 99 |
| 9) Chloroethane | 6.82 | 64 | 75461 | 4.986 | ng | | 97 |
| 10) Ethanol | 7.10 | 45 | 71902m | 4.049 | ng | | |
| 11) Acetonitrile | 7.42 | 41 | 214184 | 4.170 | ng | | 98 |
| 12) Acrolein | 7.64 | 56 | 55456 | 4.371 | ng | | 99 |
| 13) Acetone | 7.85 | 58 | 89678 | 4.932 | ng | # | 69 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 188883 | 4.477 | ng | | 99 |
| 15) Isopropanol | 8.30 | 45 | 249865m | 4.309 | ng | | |
| 16) Acrylonitrile | 8.62 | 53 | 125320 | 4.526 | ng | | 96 |
| 17) 1,1-Dichloroethene | 9.15 | 96 | 96165 | 5.182 | ng | # | 75 |
| 18) tert-Butanol | 9.24 | 59 | 238857m | 4.842 | ng | | |
| 19) Methylene Chloride | 9.35 | 84 | 97542 | 4.800 | ng | # | 78 |
| 20) Allyl Chloride | 9.54 | 41 | 138638 | 5.113 | ng | | 100 |
| 21) Trichlorotrifluoroethane | 9.80 | 151 | 98686 | 5.144 | ng | | 91 |
| 22) Carbon Disulfide | 9.76 | 76 | 338282 | 4.387 | ng | | 97 |
| 23) trans-1,2-Dichloroethene | 10.79 | 61 | 147075 | 4.893 | ng | | 81 |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 173448 | 4.919 | ng | | 96 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 291729 | 4.961 | ng | | 85 |
| 26) Vinyl Acetate | 11.34 | 86 | 17455 | 5.194 | ng | # | 84 |
| 27) 2-Butanone | 11.67 | 72 | 64148 | 4.834 | ng | | 93 |
| 28) cis-1,2-Dichloroethene | 12.34 | 61 | 136027 | 4.735 | ng | | 80 |
| 29) Diisopropyl Ether | 12.67 | 87 | 71629 | 4.405 | ng | # | 90 |
| 30) Ethyl Acetate | 12.69 | 61 | 40321 | 5.628 | ng | | 77 |
| 31) n-Hexane | 12.70 | 57 | 171217 | 4.736 | ng | | 88 |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:57:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 32) Chloroform | 12.78 | 83 | 164816 | 5.351 | ng | 99 |
| 34) Tetrahydrofuran | 13.35 | 72 | 61964 | 4.884 | ng # | 90 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 104654 | 4.595 | ng # | 74 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 136106 | 4.574 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 158429 | 4.904 | ng | 96 |
| 39) Isopropyl Acetate | 14.83 | 61 | 57851 | 4.774 | ng # | 49 |
| 40) 1-Butanol | 14.85 | 56 | 86873 | 4.455 | ng # | 67 |
| 41) Benzene | 14.98 | 78 | 359189 | 4.836 | ng | 100 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 134831 | 4.713 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 144299 | 4.994 | ng # | 74 |
| 44) tert-Amyl Methyl Ether | 15.86 | 73 | 251004 | 4.711 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.19 | 63 | 96929 | 4.877 | ng | 99 |
| 46) Bromodichloromethane | 16.45 | 83 | 130184 | 5.185 | ng | 100 |
| 47) Trichloroethene | 16.53 | 130 | 107292 | 4.709 | ng | 100 |
| 48) 1,4-Dioxane | 16.49 | 88 | 74057 | 5.286 | ng | 80 |
| 49) Isooctane | 16.62 | 57 | 388356 | 4.560 | ng | 82 |
| 50) Methyl Methacrylate | 16.80 | 100 | 37079 | 4.995 | ng | 92 |
| 51) n-Heptane | 16.98 | 71 | 97617 | 4.946 | ng # | 79 |
| 52) cis-1,3-Dichloropropene | 17.72 | 75 | 140827 | 4.770 | ng | 100 |
| 53) 4-Methyl-2-pentanone | 17.76 | 58 | 95175 | 4.826 | ng | 78 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 141602 | 5.559 | ng | 99 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 89885 | 4.897 | ng | 97 |
| 58) Toluene | 19.06 | 91 | 398224 | 5.013 | ng | 97 |
| 59) 2-Hexanone | 19.37 | 43 | 257868 | 4.711 | ng | 85 |
| 60) Dibromochloromethane | 19.60 | 129 | 113248 | 5.278 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 106154 | 5.105 | ng | 99 |
| 62) Butyl Acetate | 20.19 | 43 | 275252 | 4.954 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 81335 | 4.630 | ng | 89 |
| 64) Tetrachloroethene | 20.54 | 166 | 115956 | 4.933 | ng | 99 |
| 65) Chlorobenzene | 21.41 | 112 | 265462 | 4.985 | ng | 100 |
| 66) Ethylbenzene | 21.88 | 91 | 454922 | 4.994 | ng | 94 |
| 67) m- & p-Xylene | 22.12 | 91 | 715996 | 11.751 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 101168 | 6.336 | ng | 98 |
| 69) Styrene | 22.57 | 104 | 274527 | 5.040 | ng | 98 |
| 70) o-Xylene | 22.71 | 91 | 363584 | 5.528 | ng | 93 |
| 71) n-Nonane | 22.98 | 43 | 213616 | 4.574 | ng | 85 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 163000 | 5.946 | ng | 97 |
| 74) Cumene | 23.46 | 105 | 428118 | 4.888 | ng | 100 |
| 75) alpha-Pinene | 23.96 | 93 | 218854 | 4.833 | ng | 95 |
| 76) n-Propylbenzene | 24.10 | 91 | 534919 | 4.800 | ng | 98 |
| 77) 3-Ethyltoluene | 24.22 | 105 | 432267 | 4.637 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 452039 | 5.201 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 383142 | 4.880 | ng | 99 |

WA 5/29/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 20:57:53 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

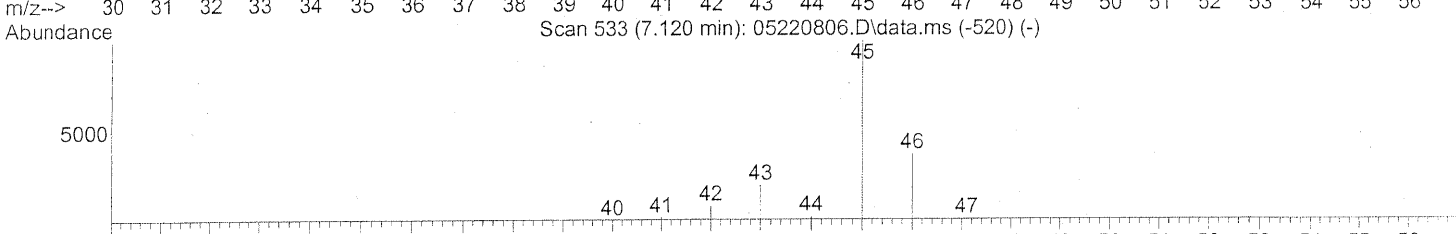
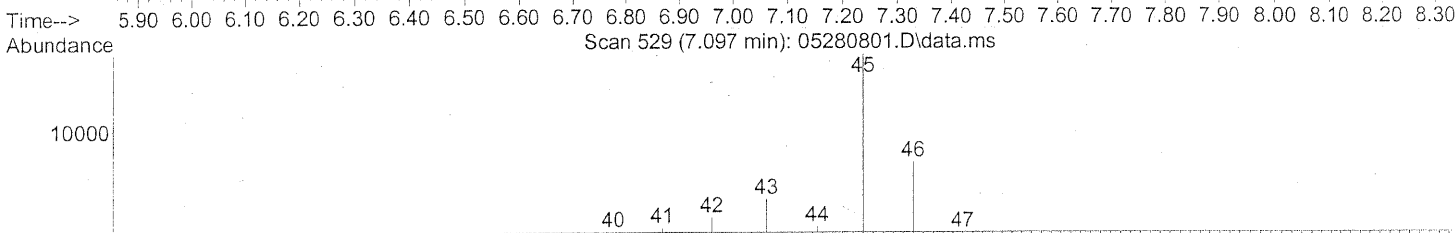
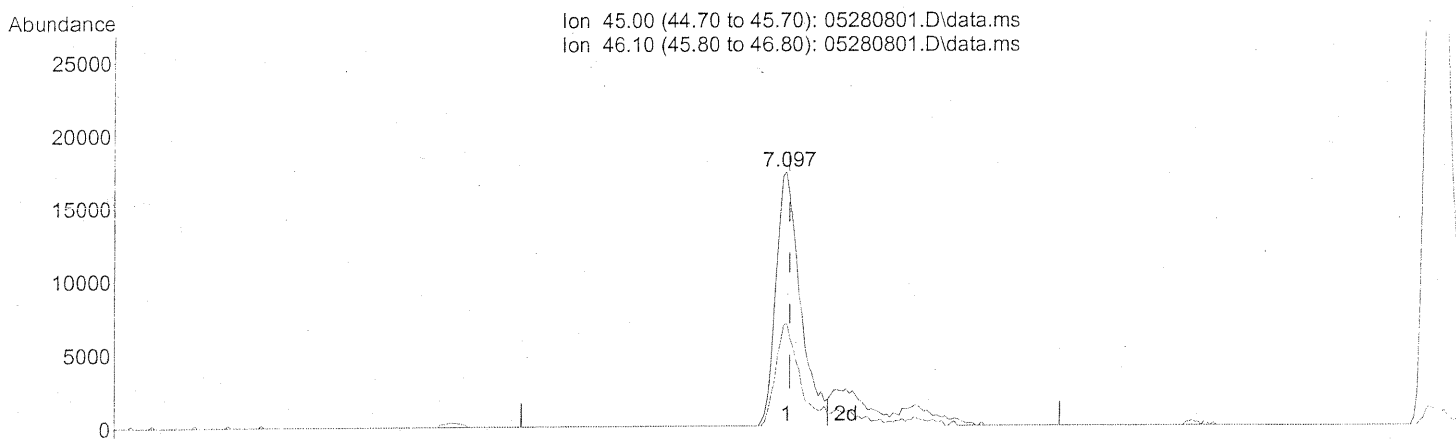
| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 201162 | 4.732 | ng | 96 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 427658 | 4.527 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 396122 | 4.955 | ng | 98 |
| 83) n-Decane | 24.98 | 57 | 207630 | 4.721 | ng | 84 |
| 84) Benzyl Chloride | 25.04 | 91 | 289236 | 5.392 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.07 | 146 | 241034 | 4.823 | ng | 99 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 243388 | 5.023 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 496642 | 4.861 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 452812 | 5.384 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.40 | 105 | 382205 | 4.886 | ng | 100 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 232254 | 4.900 | ng | 99 |
| 91) d-Limonene | 25.57 | 68 | 148580 | 4.665 | ng | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 75792 | 5.152 | ng | 95 |
| 93) n-Undecane | 26.50 | 57 | 221223 | 4.806 | ng | 85 |
| 94) 1,2,4-Trichlorobenzene | 27.63 | 180 | 178595 | 5.144 | ng | 96 |
| 95) Naphthalene | 27.77 | 128 | 524318 | 4.973 | ng | 98 |
| 96) n-Dodecane | 27.73 | 57 | 218739 | 4.778 | ng | 81 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 118237 | 5.116 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

WA 5/29/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 08:32:14 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

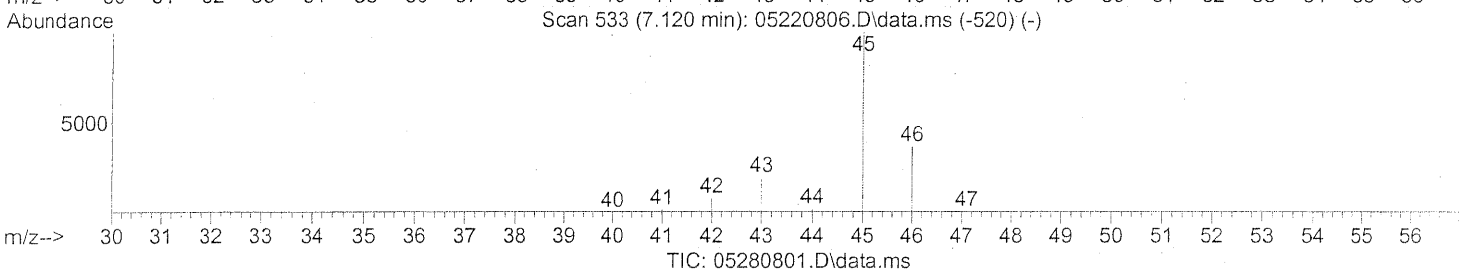
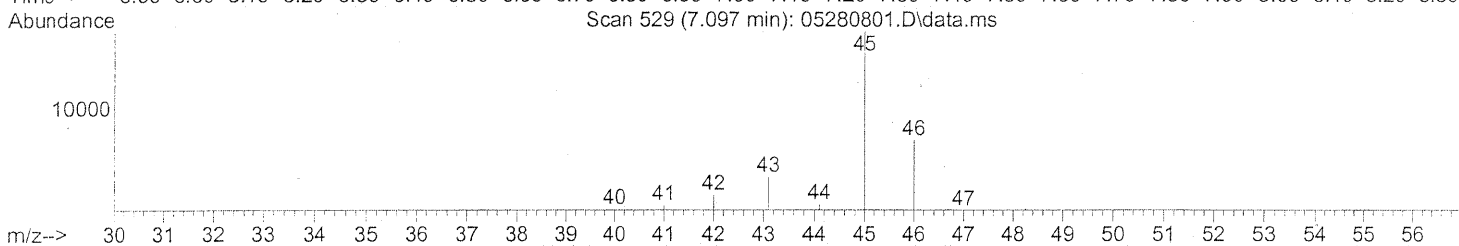
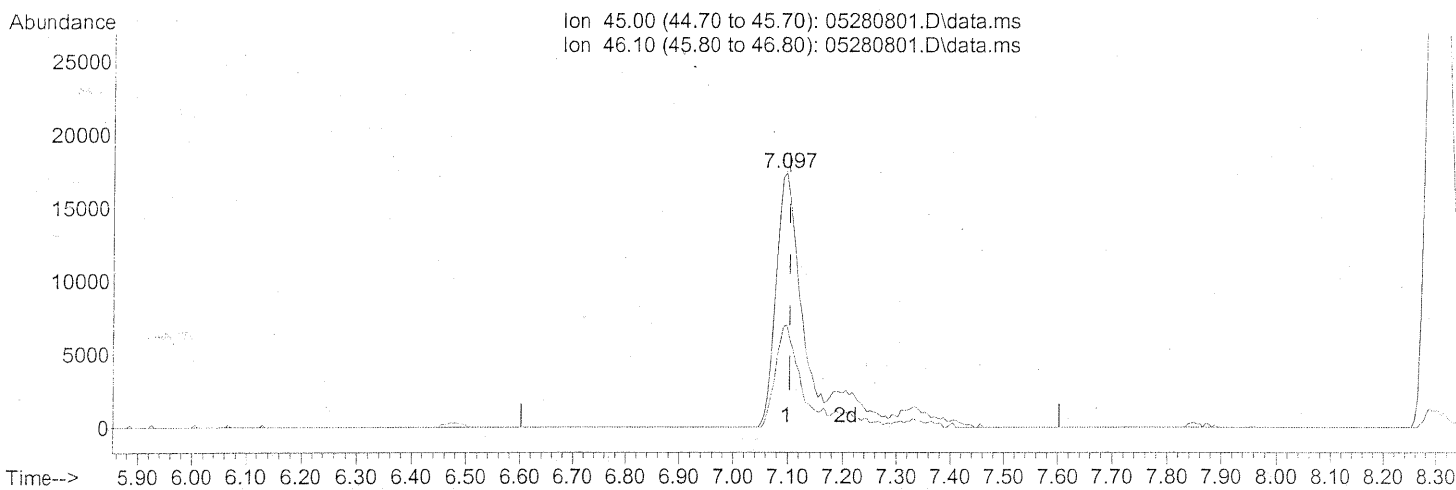
7.097min (-0.006) 3.04ng
 response 53999

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 40.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

split peaks

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 08:32:14 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 4.05ng m

response 71902

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 30.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

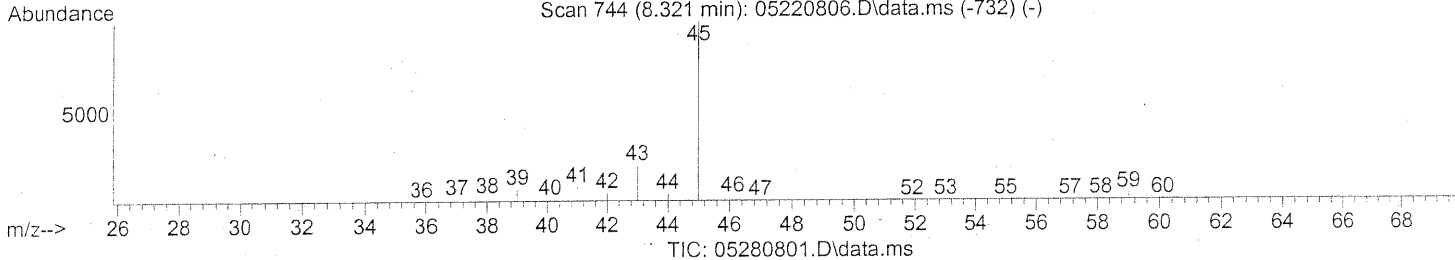
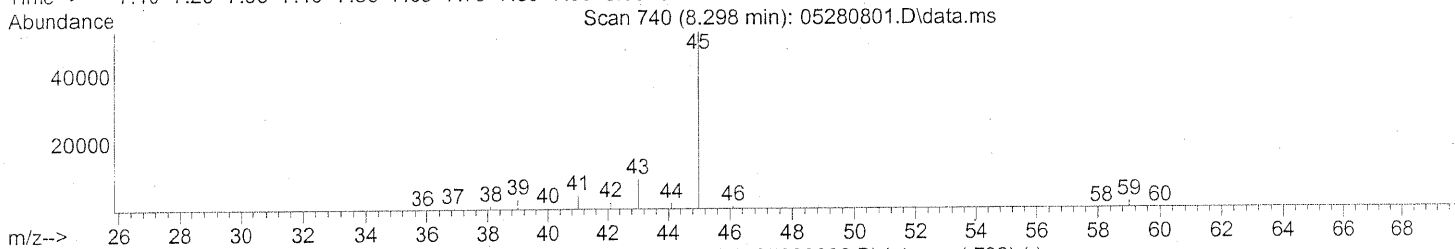
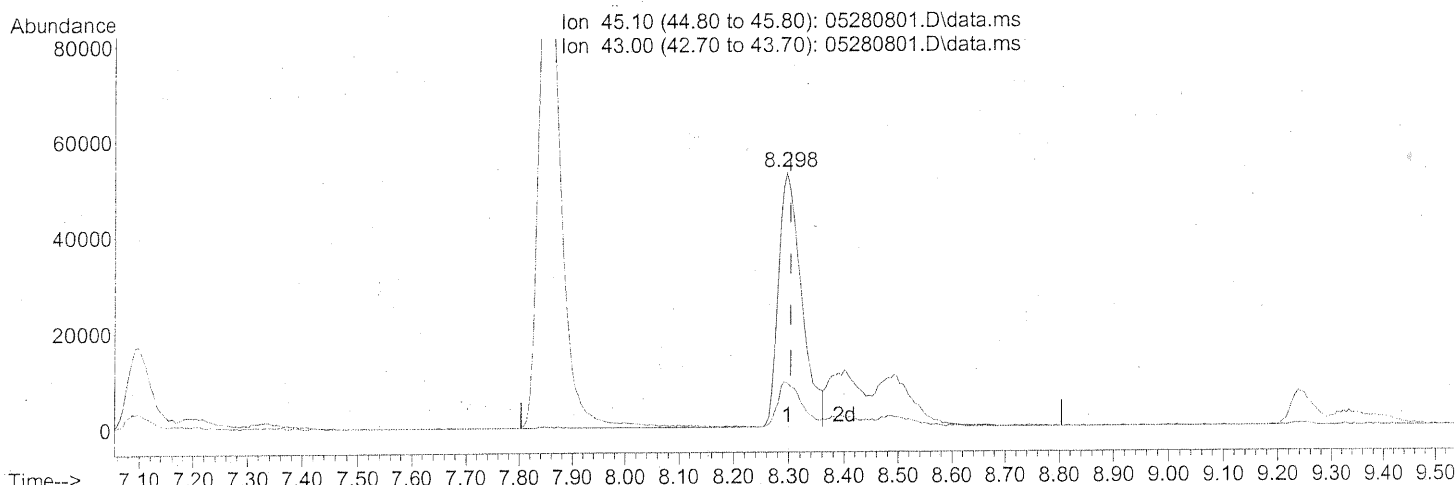
int. whole peaks

ID# 5/29/08

5/29/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 08:32:14 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



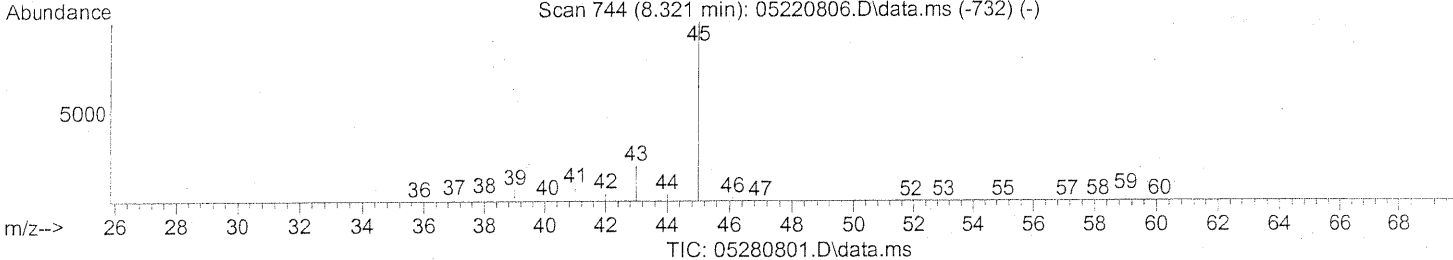
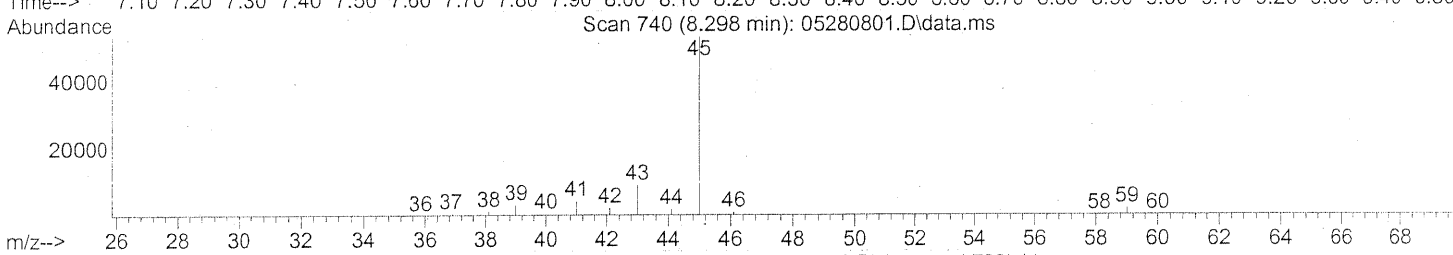
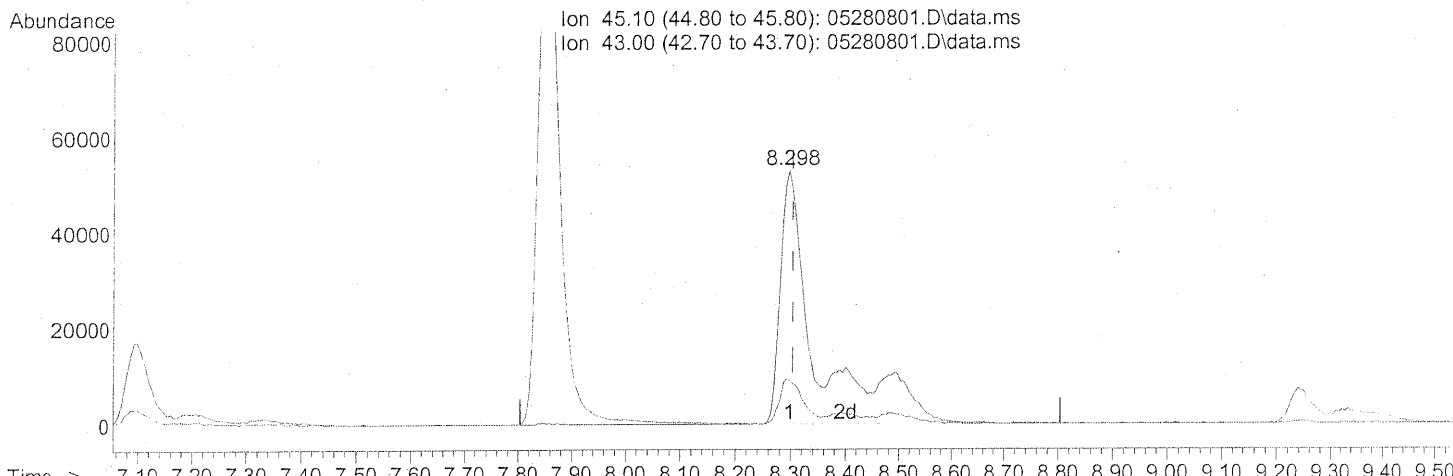
(15) Isopropanol (T)
 8.298min (-0.006) 2.62ng
 response 151972

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 18.90 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

split peaks

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 08:32:14 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(15) Isopropanol (T)

8.298min (-0.006) 4.31ng m

response 249865

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.10 | 100 | 100 |
| 43.00 | 16.90 | 11.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

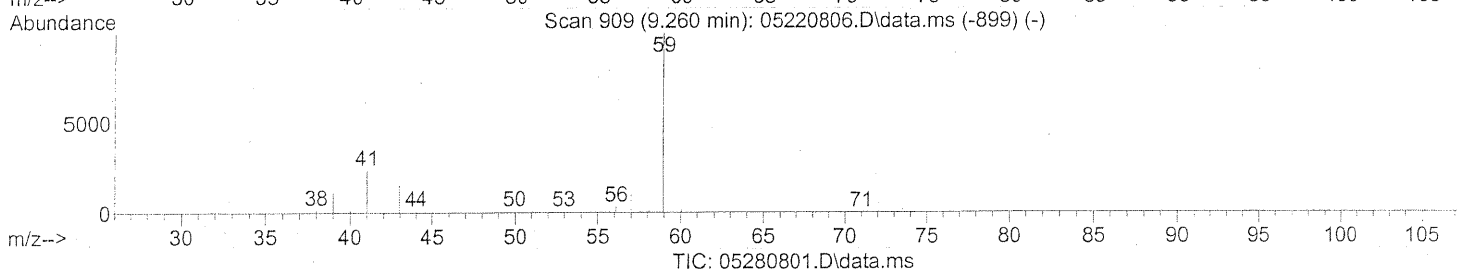
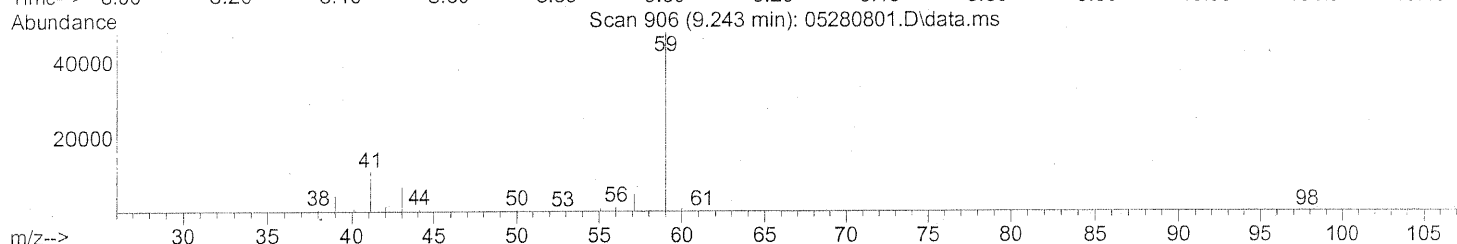
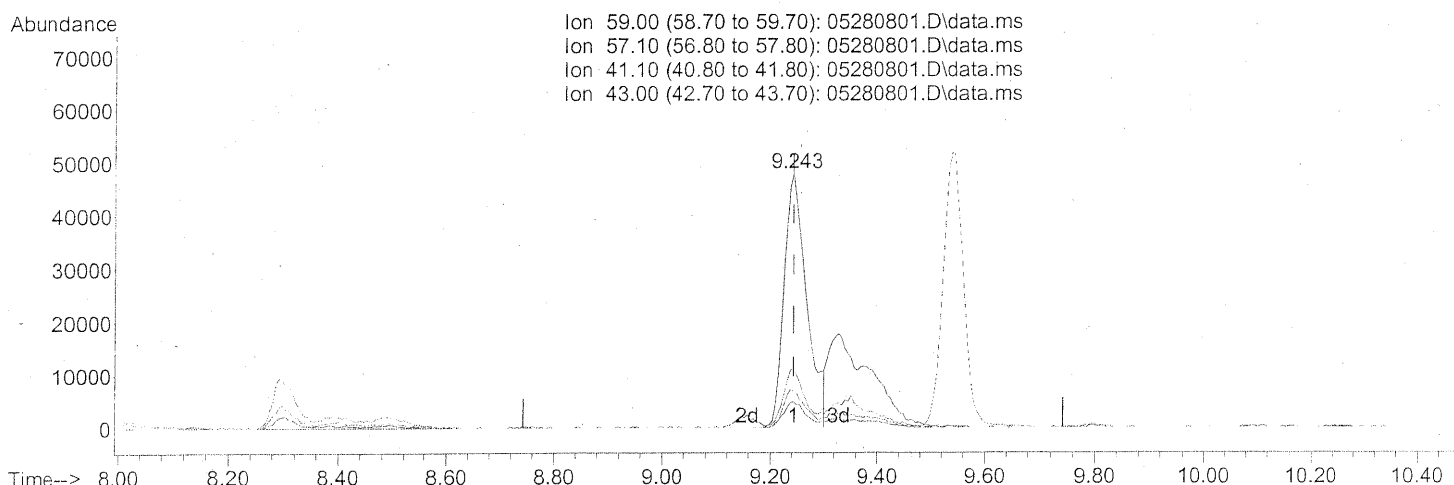
int. whole peaks

WA 5/29/08

7/06/02/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 08:32:14 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.243min (+0.000) 2.88ng

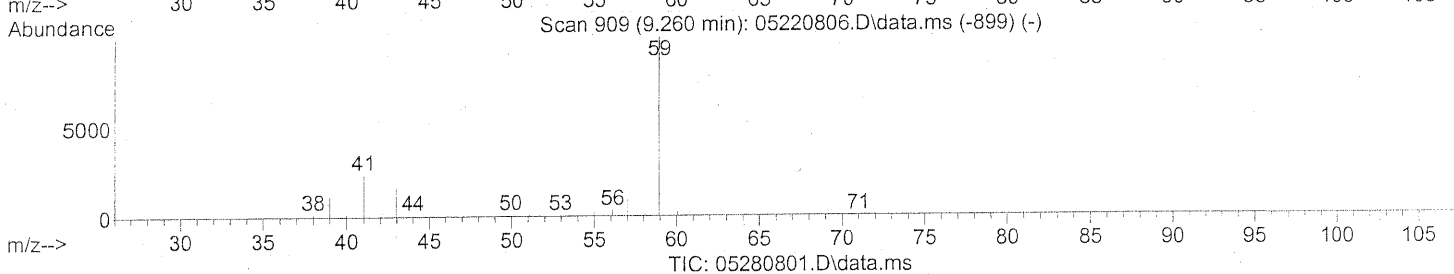
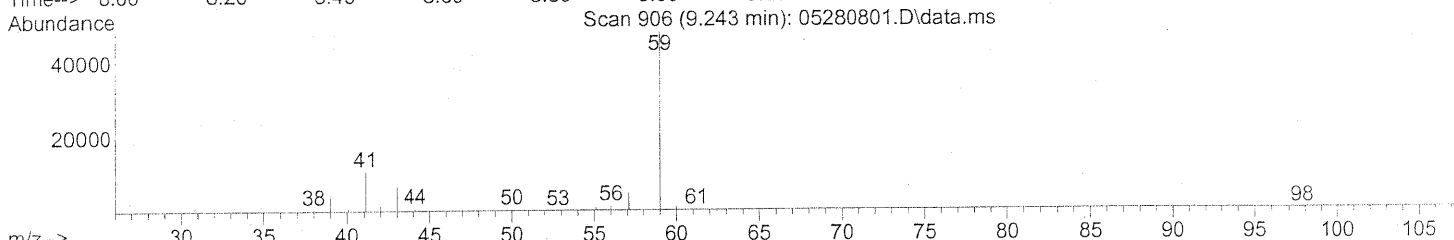
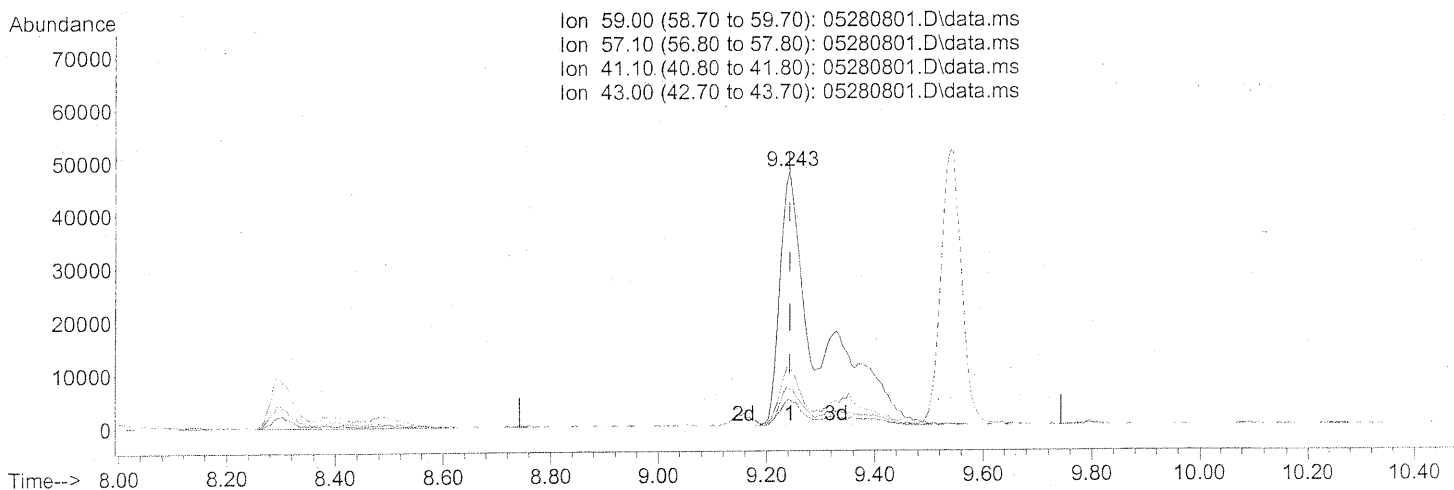
response 141912

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 10.32 |
| 41.10 | 20.10 | 23.11 |
| 43.00 | 12.30 | 14.97 |

split peaks

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 08:32:14 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(18) tert-Butanol (T)
 9.243min (+0.000) 4.84ng m
 response 238857

| Ion | Exp% | Act% |
|-------|-------|-------|
| 59.00 | 100 | 100 |
| 57.10 | 10.30 | 6.13 |
| 41.10 | 20.10 | 13.73 |
| 43.00 | 12.30 | 8.89 |

int. whole peaks

181 5/29/08

5/29/08

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18 am
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:24:05 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

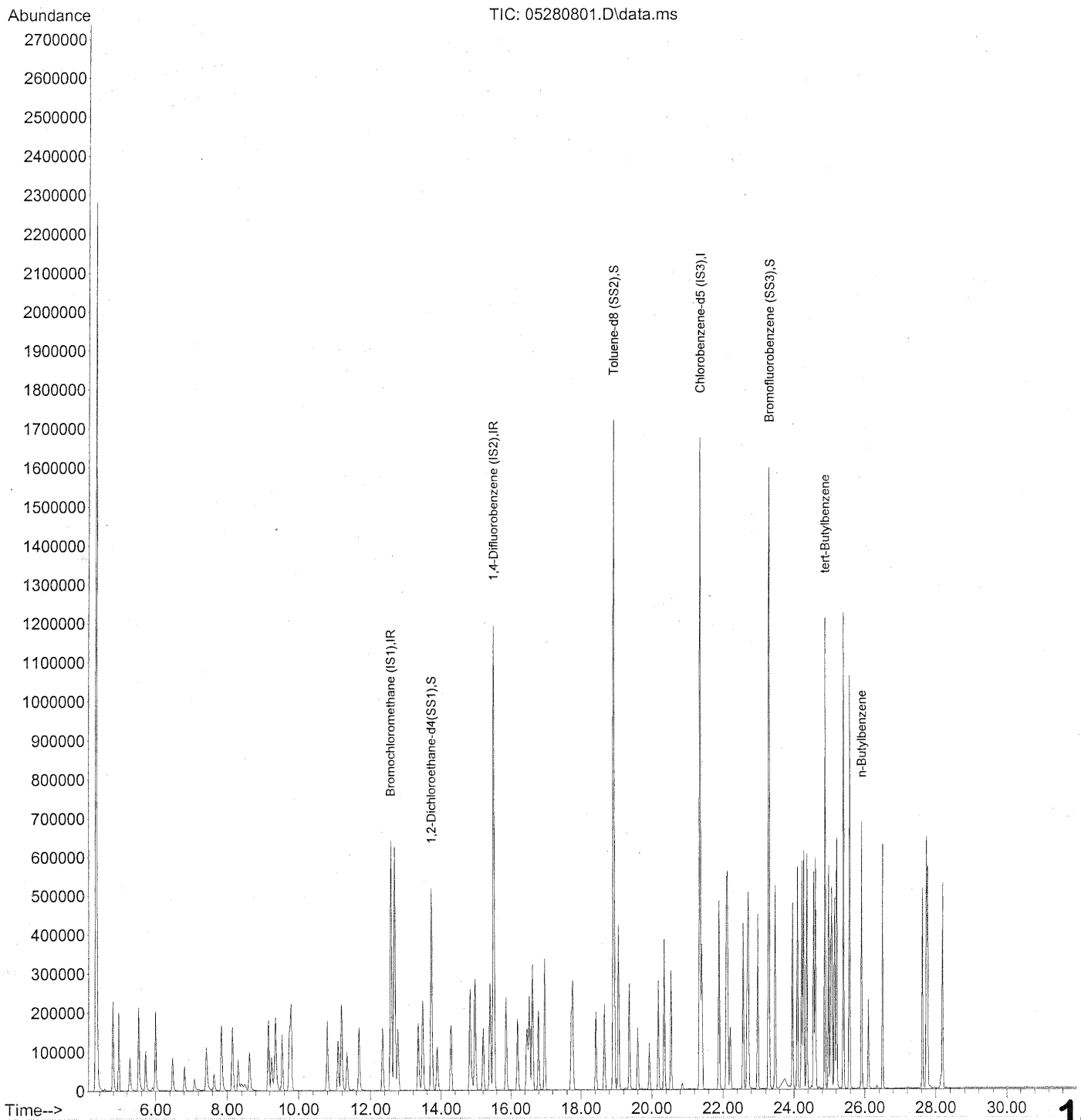
| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|-------|------|-------|----------|
| 1 IR | Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 86 | -0.02 |
| 2 S | 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.572 | 9.2 | 79 | -0.03 |
| 3 IR | 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 84 | -0.02 |
| 4 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 5 S | Toluene-d8 (SS2) | 2.245 | 2.275 | -1.3 | 82 | -0.02 |
| 6 S | Bromofluorobenzene (SS3) | 0.913 | 0.946 | -3.6 | 83 | 0.00 |
| 7 | tert-Butylbenzene | 2.936 | 2.650 | 9.7 | 75 | -0.02 |
| 8 | n-Butylbenzene | 3.247 | 2.967 | 8.6 | 73 | -0.01 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18 am
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:24:05 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



1829

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18 am
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 13:24:05 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|---------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 337782 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1418631 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 650717 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 530920 | 22.684 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 90.72% | |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1480387 | 25.331 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 101.32% | |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 615493 | 25.899 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 103.60% | |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 24.88 | 119 | 358717 | 4.694 | ng | 99 |
| 8) n-Butylbenzene | 25.91 | 91 | 413175 | 4.889 | ng | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290802.D
 Acq On : 29 May 2008 5:09 am
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-05160801/S20-05210801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:42:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev (min) |
|-------|-----------------------------|-------|-------|-------|-------|-----------|
| 1 IR | Bromochloromethane (IS1) | 1.000 | 1.000 | 0.0 | 78 | 0.00 |
| 2 T | Propene | 1.974 | 1.561 | 20.9 | 72 | -0.01 |
| 3 T | Dichlorodifluoromethane | 3.639 | 2.983 | 18.0 | 70 | -0.01 |
| 4 T | Chloromethane | 2.357 | 2.108 | 10.6 | 71 | -0.01 |
| 5 T | Freon 114 | 1.790 | 1.535 | 14.2 | 75 | -0.01 |
| 6 T | Vinyl Chloride | 2.358 | 2.009 | 14.8 | 71 | -0.01 |
| 7 T | 1,3-Butadiene | 1.754 | 1.631 | 7.0 | 71 | -0.01 |
| 8 T | Bromomethane | 1.313 | 1.201 | 8.5 | 77 | 0.00 |
| 9 T | Chloroethane | 1.120 | 1.012 | 9.6 | 76 | -0.01 |
| 10 T | Ethanol | 1.314 | 1.140 | 13.2 | 75 | 0.02 |
| 11 T | Acetonitrile | 3.801 | 3.011 | 20.8 | 73 | 0.00 |
| 12 T | Acrolein | 0.939 | 0.845 | 10.0 | 72 | 0.00 |
| 13 T | Acetone | 1.346 | 1.093 | 18.8 | 73 | 0.00 |
| 14 T | Trichlorofluoromethane | 3.122 | 2.641 | 15.4 | 71 | 0.00 |
| 15 T | Isopropanol | 4.292 | 3.665 | 14.6 | 71 | 0.02 |
| 16 T | Acrylonitrile | 2.049 | 1.888 | 7.9 | 71 | 0.00 |
| 17 T | 1,1-Dichloroethene | 1.373 | 1.211 | 11.8 | 73 | 0.00 |
| 18 T | tert-Butanol | 3.651 | 3.509 | 3.9 | 73 | 0.02 |
| 19 T | Methylene Chloride | 1.504 | 1.257 | 16.4 | 72 | 0.00 |
| 20 T | Allyl Chloride | 2.007 | 2.086 | -3.9 | 73 | 0.00 |
| 21 T | Trichlorotrifluoroethane | 1.420 | 1.240 | 12.7 | 75 | 0.00 |
| 22 T | Carbon Disulfide | 5.707 | 4.898 | 14.2 | 72 | 0.00 |
| 23 T | trans-1,2-Dichloroethene | 2.225 | 1.973 | 11.3 | 72 | 0.00 |
| 24 T | 1,1-Dichloroethane | 2.610 | 2.280 | 12.6 | 72 | 0.00 |
| 25 T | Methyl tert-Butyl Ether | 4.352 | 3.796 | 12.8 | 72 | 0.00 |
| 26 T | Vinyl Acetate | 0.249 | 0.278 | -11.6 | 77 | 0.01 |
| 27 T | 2-Butanone | 0.982 | 0.856 | 12.8 | 71 | 0.00 |
| 28 T | cis-1,2-Dichloroethene | 2.126 | 1.801 | 15.3 | 70 | 0.01 |
| 29 T | Diisopropyl Ether | 1.204 | 1.050 | 12.8 | 71 | 0.00 |
| 30 T | Ethyl Acetate | 0.530 | 0.476 | 10.2 | 70 | 0.01 |
| 31 T | n-Hexane | 2.676 | 2.261 | 15.5 | 68 | 0.00 |
| 32 T | Chloroform | 2.280 | 1.900 | 16.7 | 71 | 0.02 |
| 33 S | 1,2-Dichloroethane-d4 (SS1) | 1.732 | 1.606 | 7.3 | 73 | 0.00 |
| 34 T | Tetrahydrofuran | 0.939 | 0.829 | 11.7 | 71 | 0.00 |
| 35 T | Ethyl tert-Butyl Ether | 1.686 | 1.481 | 12.2 | 71 | 0.00 |
| 36 T | 1,2-Dichloroethane | 2.202 | 1.825 | 17.1 | 69 | 0.00 |
| 37 IR | 1,4-Difluorobenzene (IS2) | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 38 T | 1,1,1-Trichloroethane | 0.569 | 0.495 | 13.0 | 71 | 0.00 |

1831

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290802.D
 Acq On : 29 May 2008 5:09 am
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-05160801/S20-05210801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:42:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

| Compound | | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----------|---------------------------|-------|-------|------|-------|----------|
| 39 T | Isopropyl Acetate | 0.214 | 0.208 | 2.8 | 71 | 0.00 |
| 40 T | 1-Butanol | 0.344 | 0.338 | 1.7 | 70 | 0.00 |
| 41 T | Benzene | 1.309 | 1.133 | 13.4 | 70 | 0.00 |
| 42 T | Carbon Tetrachloride | 0.504 | 0.464 | 7.9 | 71 | 0.01 |
| 43 T | Cyclohexane | 0.509 | 0.443 | 13.0 | 72 | 0.00 |
| 44 T | tert-Amyl Methyl Ether | 0.939 | 0.859 | 8.5 | 72 | 0.00 |
| 45 T | 1,2-Dichloropropane | 0.350 | 0.308 | 12.0 | 71 | 0.01 |
| 46 T | Bromodichloromethane | 0.442 | 0.399 | 9.7 | 71 | 0.01 |
| 47 T | Trichloroethene | 0.402 | 0.331 | 17.7 | 73 | 0.00 |
| 48 T | 1,4-Dioxane | 0.247 | 0.222 | 10.1 | 72 | 0.00 |
| 49 T | Isooctane | 1.501 | 1.328 | 11.5 | 70 | 0.00 |
| 50 T | Methyl Methacrylate | 0.131 | 0.127 | 3.1 | 71 | 0.00 |
| 51 T | n-Heptane | 0.348 | 0.311 | 10.6 | 69 | 0.00 |
| 52 T | cis-1,3-Dichloropropene | 0.520 | 0.492 | 5.4 | 71 | 0.00 |
| 53 T | 4-Methyl-2-pentanone | 0.348 | 0.320 | 8.0 | 70 | 0.00 |
| 54 T | trans-1,3-Dichloropropene | 0.449 | 0.444 | 1.1 | 71 | 0.00 |
| 55 T | 1,1,2-Trichloroethane | 0.323 | 0.292 | 9.6 | 72 | 0.00 |
| 56 I | Chlorobenzene-d5 (IS3) | 1.000 | 1.000 | 0.0 | 75 | 0.00 |
| 57 S | Toluene-d8 (SS2) | 2.245 | 2.219 | 1.2 | 75 | 0.00 |
| 58 T | Toluene | 3.052 | 2.673 | 12.4 | 69 | 0.00 |
| 59 T | 2-Hexanone | 2.103 | 1.930 | 8.2 | 66 | 0.00 |
| 60 T | Dibromochloromethane | 0.824 | 0.786 | 4.6 | 70 | 0.00 |
| 61 T | 1,2-Dibromoethane | 0.799 | 0.734 | 8.1 | 71 | 0.00 |
| 62 T | Butyl Acetate | 2.135 | 2.003 | 6.2 | 67 | 0.00 |
| 63 T | n-Octane | 0.675 | 0.613 | 9.2 | 69 | 0.00 |
| 64 T | Tetrachloroethene | 0.903 | 0.803 | 11.1 | 71 | 0.00 |
| 65 T | Chlorobenzene | 2.046 | 1.840 | 10.1 | 71 | 0.00 |
| 66 T | Ethylbenzene | 3.500 | 3.178 | 9.2 | 69 | 0.00 |
| 67 T | m- & p-Xylene | 2.341 | 2.116 | 9.6 | 67 | 0.01 |
| 68 T | Bromoform | 0.613 | 0.613 | 0.0 | 70 | 0.00 |
| 69 T | Styrene | 2.092 | 1.959 | 6.4 | 69 | 0.00 |
| 70 T | o-Xylene | 2.527 | 2.261 | 10.5 | 68 | 0.00 |
| 71 T | n-Nonane | 1.794 | 1.607 | 10.4 | 66 | 0.00 |
| 72 T | 1,1,2,2-Tetrachloroethane | 1.053 | 1.029 | 2.3 | 68 | 0.00 |
| 73 S | Bromofluorobenzene (SS3) | 0.913 | 0.935 | -2.4 | 75 | 0.00 |
| 74 T | Cumene | 3.365 | 3.030 | 10.0 | 68 | 0.00 |
| 75 T | alpha-Pinene | 1.740 | 1.589 | 8.7 | 68 | 0.00 |
| 76 T | n-Propylbenzene | 4.282 | 3.913 | 8.6 | 67 | 0.00 |

1832

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290802.D
 Acq On : 29 May 2008 5:09 am
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-05160801/S20-05210801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:42:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

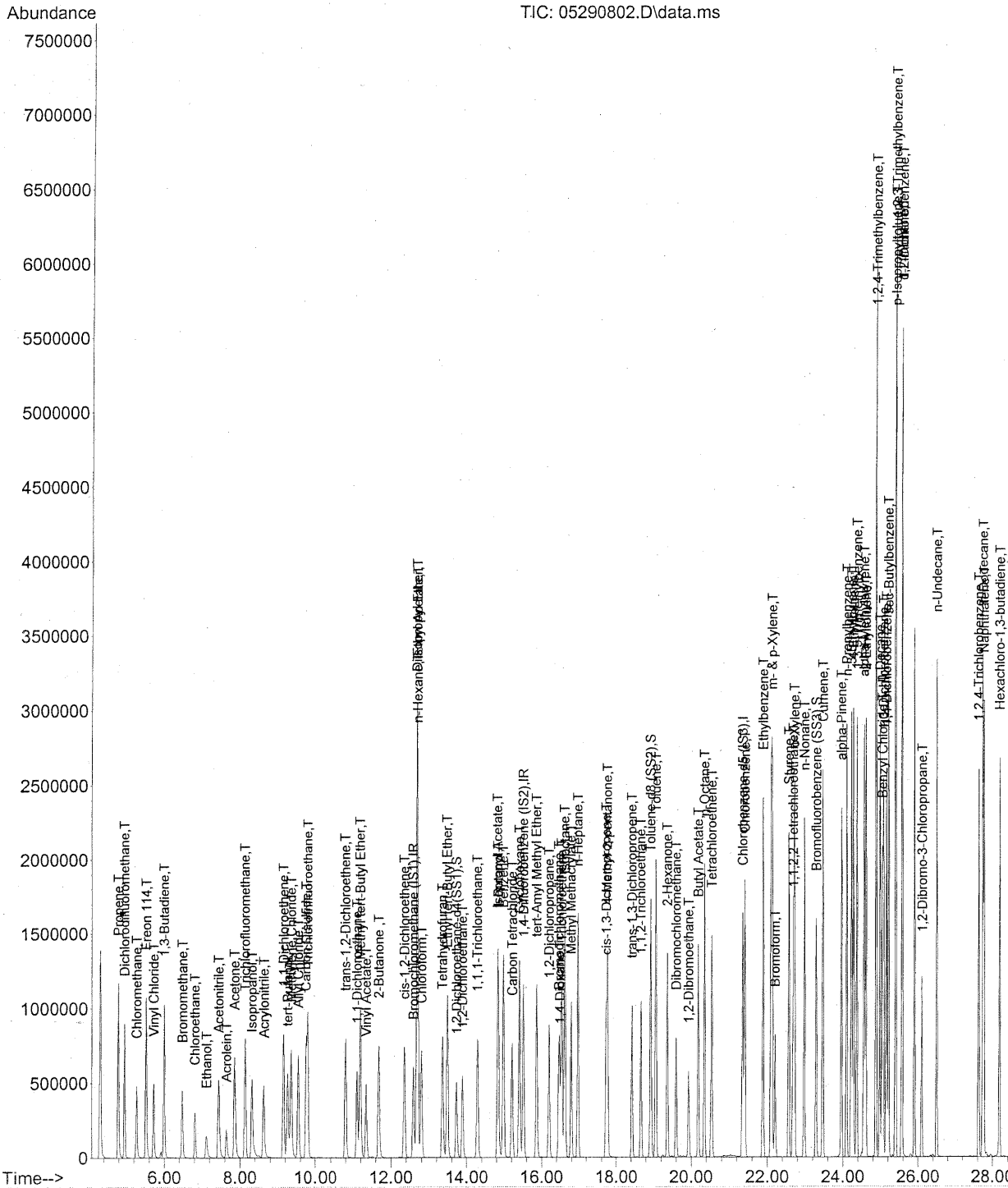
| Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|----------------------------------|-------|-------|------|-------|----------|
| 77 T 3-Ethyltoluene | 3.582 | 3.342 | 6.7 | 67 | 0.00 |
| 78 T 4-Ethyltoluene | 3.339 | 3.047 | 8.7 | 66 | 0.00 |
| 79 T 1,3,5-Trimethylbenzene | 3.017 | 2.707 | 10.3 | 67 | 0.00 |
| 80 T alpha-Methylstyrene | 1.633 | 1.555 | 4.8 | 66 | 0.00 |
| 81 T 2-Ethyltoluene | 3.630 | 3.336 | 8.1 | 66 | 0.00 |
| 82 T 1,2,4-Trimethylbenzene | 3.071 | 2.803 | 8.7 | 65 | 0.00 |
| 83 T n-Decane | 1.690 | 1.554 | 8.0 | 65 | 0.00 |
| 84 T Benzyl Chloride | 2.061 | 2.251 | -9.2 | 67 | 0.00 |
| 85 T 1,3-Dichlorobenzene | 1.920 | 1.765 | 8.1 | 67 | 0.00 |
| 86 T 1,4-Dichlorobenzene | 1.861 | 1.714 | 7.9 | 67 | 0.00 |
| 87 T sec-Butylbenzene | 3.925 | 3.608 | 8.1 | 66 | 0.00 |
| 88 T p-Isopropyltoluene | 3.231 | 3.084 | 4.5 | 65 | 0.00 |
| 89 T 1,2,3-Trimethylbenzene | 3.005 | 2.775 | 7.7 | 65 | 0.00 |
| 90 T 1,2-Dichlorobenzene | 1.821 | 1.685 | 7.5 | 66 | 0.00 |
| 91 T d-Limonene | 1.224 | 1.123 | 8.3 | 63 | 0.00 |
| 92 T 1,2-Dibromo-3-Chloropropane | 0.565 | 0.602 | -6.5 | 69 | 0.00 |
| 93 T n-Undecane | 1.768 | 1.643 | 7.1 | 65 | 0.00 |
| 94 T 1,2,4-Trichlorobenzene | 1.334 | 1.248 | 6.4 | 69 | 0.00 |
| 95 T Naphthalene | 4.051 | 3.903 | 3.7 | 67 | 0.00 |
| 96 T n-Dodecane | 1.759 | 1.658 | 5.7 | 66 | 0.00 |
| 97 T Hexachloro-1,3-butadiene | 0.888 | 0.827 | 6.9 | 70 | 0.00 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290802.D
Acq On : 29 May 2008 5:09 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05160801/S20-05210801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:42:55 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



1834

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290802.D
 Acq On : 29 May 2008 5:09 am
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-05160801/S20-05210801
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:42:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.59 | 130 | 326447 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.52 | 114 | 1381121 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 649243 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|---------------------------------|--------|-----|----------|-----------|----|------|
| 33) 1,2-Dichloroethane-d4 (...) | 13.73 | 65 | 524394 | 23.183 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 92.72% | | |
| 57) Toluene-d8 (SS2) | 18.93 | 98 | 1440651 | 24.707 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 98.84% | | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 607113 | 25.605 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = 102.40% | | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|--------|-------|--------|
| 2) Propene | 4.79 | 42 | 550520 | 21.352 | ng | 91 |
| 3) Dichlorodifluoromethane | 4.95 | 85 | 1012769 | 21.311 | ng | 100 |
| 4) Chloromethane | 5.27 | 50 | 701771 | 22.805 | ng | 96 |
| 5) Freon 114 | 5.52 | 135 | 537174 | 22.979 | ng | 100 |
| 6) Vinyl Chloride | 5.72 | 62 | 676749 | 21.980 | ng | 95 |
| 7) 1,3-Butadiene | 5.99 | 54 | 581302 | 25.381 | ng | # 80 |
| 8) Bromomethane | 6.48 | 94 | 412404 | 24.051 | ng | 98 |
| 9) Chloroethane | 6.81 | 64 | 347714 | 23.774 | ng | 95 |
| 10) Ethanol | 7.12 | 45 | 339322m | 19.769 | ng | |
| 11) Acetonitrile | 7.43 | 41 | 963141 | 19.404 | ng | 97 |
| 12) Acrolein | 7.64 | 56 | 264841 | 21.600 | ng | 98 |
| 13) Acetone | 7.86 | 58 | 396870 | 22.584 | ng | # 68 |
| 14) Trichlorofluoromethane | 8.14 | 101 | 896647 | 21.992 | ng | 100 |
| 15) Isopropanol | 8.32 | 45 | 1234738 | 22.031 | ng | 95 |
| 16) Acrylonitrile | 8.64 | 53 | 623629 | 23.307 | ng | 99 |
| 17) 1,1-Dichloroethene | 9.16 | 96 | 447606 | 24.957 | ng | # 77 |
| 18) tert-Butanol | 9.27 | 59 | 1168419 | 24.510 | ng | 97 |
| 19) Methylene Chloride | 9.36 | 84 | 459756 | 23.410 | ng | # 77 |
| 20) Allyl Chloride | 9.54 | 41 | 716478 | 27.341 | ng | 100 |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 461550 | 24.893 | ng | 92 |
| 22) Carbon Disulfide | 9.76 | 76 | 1598875 | 21.454 | ng | 96 |
| 23) trans-1,2-Dichloroethene | 10.80 | 61 | 708456 | 24.387 | ng | 83 |
| 24) 1,1-Dichloroethane | 11.10 | 63 | 827759 | 24.290 | ng | 95 |
| 25) Methyl tert-Butyl Ether | 11.19 | 73 | 1378114 | 24.251 | ng | 85 |
| 26) Vinyl Acetate | 11.35 | 86 | 88974 | 27.395 | ng | # 84 |
| 27) 2-Butanone | 11.68 | 72 | 313121 | 24.413 | ng | # 91 |
| 28) cis-1,2-Dichloroethene | 12.36 | 61 | 653944 | 23.553 | ng | 81 |
| 29) Diisopropyl Ether | 12.69 | 87 | 353631 | 22.501 | ng | # 88 |
| 30) Ethyl Acetate | 12.69 | 61 | 197717 | 28.556 | ng | 76 |
| 31) n-Hexane | 12.70 | 57 | 826849 | 23.667 | ng | 89 |

1835

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290802.D
Acq On : 29 May 2008 5:09 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05160801/S20-05210801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 08:42:55 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 32) Chloroform | 12.80 | 83 | 801371 | 26.921 | ng | 100 |
| 34) Tetrahydrofuran | 13.35 | 72 | 300885 | 24.538 | ng # | 91 |
| 35) Ethyl tert-Butyl Ether | 13.48 | 87 | 508655 | 23.111 | ng # | 75 |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 655456 | 22.791 | ng | 98 |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 752005 | 23.908 | ng | 96 |
| 39) Isopropyl Acetate | 14.83 | 61 | 291055 | 24.672 | ng # | 51 |
| 40) 1-Butanol | 14.84 | 56 | 425705 | 22.425 | ng # | 66 |
| 41) Benzene | 14.99 | 78 | 1722033 | 23.813 | ng | 100 |
| 42) Carbon Tetrachloride | 15.22 | 117 | 686507 | 24.650 | ng | 99 |
| 43) Cyclohexane | 15.41 | 84 | 680869 | 24.203 | ng # | 75 |
| 44) tert-Amyl Methyl Ether | 15.87 | 73 | 1233425 | 23.776 | ng | 94 |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 464966 | 24.030 | ng | 100 |
| 46) Bromodichloromethane | 16.46 | 83 | 634923 | 25.974 | ng | 100 |
| 47) Trichloroethene | 16.54 | 130 | 520535 | 23.465 | ng | 99 |
| 48) 1,4-Dioxane | 16.49 | 88 | 353140 | 25.891 | ng | 81 |
| 49) Isooctane | 16.62 | 57 | 1907943 | 23.012 | ng | 83 |
| 50) Methyl Methacrylate | 16.79 | 100 | 185320 | 25.645 | ng | 91 |
| 51) n-Heptane | 16.98 | 71 | 476974 | 24.823 | ng # | 79 |
| 52) cis-1,3-Dichloropropene | 17.73 | 75 | 706552 | 24.579 | ng | 98 |
| 53) 4-Methyl-2-pentanone | 17.77 | 58 | 464281 | 24.181 | ng | 78 |
| 54) trans-1,3-Dichloropropene | 18.43 | 75 | 710789 | 28.664 | ng | 100 |
| 55) 1,1,2-Trichloroethane | 18.67 | 97 | 439822 | 24.612 | ng | 97 |
| 58) Toluene | 19.07 | 91 | 1909151 | 24.087 | ng | 98 |
| 59) 2-Hexanone | 19.37 | 43 | 1277962 | 23.400 | ng | 84 |
| 60) Dibromochloromethane | 19.60 | 129 | 567113 | 26.491 | ng | 99 |
| 61) 1,2-Dibromoethane | 19.93 | 107 | 520218 | 25.075 | ng | 100 |
| 62) Butyl Acetate | 20.19 | 43 | 1367831 | 24.675 | ng | 87 |
| 63) n-Octane | 20.35 | 57 | 413818 | 23.608 | ng | 89 |
| 64) Tetrachloroethene | 20.55 | 166 | 569530 | 24.284 | ng | 99 |
| 65) Chlorobenzene | 21.41 | 112 | 1313978 | 24.728 | ng | 100 |
| 66) Ethylbenzene | 21.89 | 91 | 2228410 | 24.520 | ng | 95 |
| 67) m- & p-Xylene | 22.13 | 91 | 3544537 | 58.307 | ng | 93 |
| 68) Bromoform | 22.21 | 173 | 522300 | 32.787 | ng | 99 |
| 69) Styrene | 22.57 | 104 | 1373528 | 25.276 | ng | 98 |
| 70) o-Xylene | 22.72 | 91 | 1791271 | 27.297 | ng | 94 |
| 71) n-Nonane | 22.98 | 43 | 1076719 | 23.108 | ng # | 84 |
| 72) 1,1,2,2-Tetrachloroethane | 22.69 | 83 | 823033 | 30.093 | ng | 98 |
| 74) Cumene | 23.47 | 105 | 2124395 | 24.311 | ng | 99 |
| 75) alpha-Pinene | 23.96 | 93 | 1093468 | 24.200 | ng | 98 |
| 76) n-Propylbenzene | 24.10 | 91 | 2672320 | 24.034 | ng | 99 |
| 77) 3-Ethyltoluene | 24.23 | 105 | 2212899 | 23.791 | ng | 100 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 2199491 | 25.365 | ng | 100 |
| 79) 1,3,5-Trimethylbenzene | 24.38 | 105 | 1898046 | 24.228 | ng | 99 |

1836

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290802.D
 Acq On : 29 May 2008 5:09 am
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-05160801/S20-05210801
 ALS Vial : 4 Sample Multiplier: 1

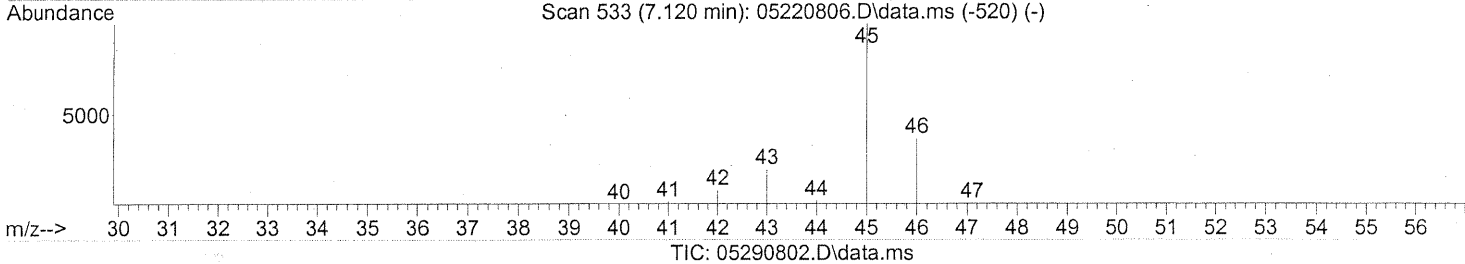
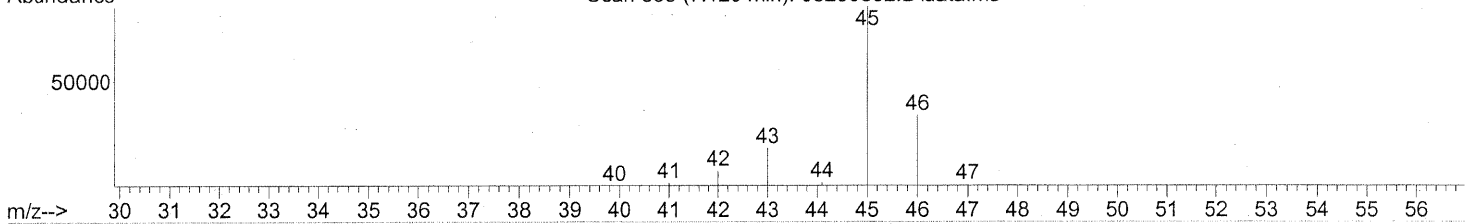
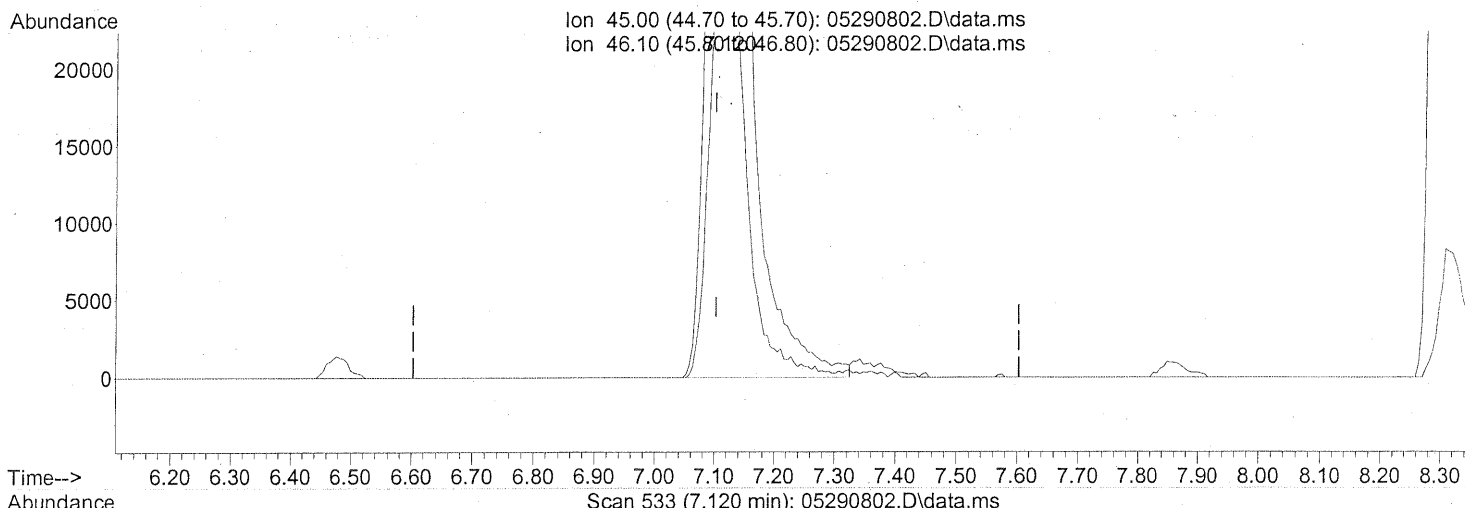
Quant Time: May 30 08:42:55 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 80) alpha-Methylstyrene | 24.56 | 118 | 1029816 | 24.281 | ng | 98 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 2148447 | 22.792 | ng | 100 |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 2002119 | 25.102 | ng | 100 |
| 83) n-Decane | 24.98 | 57 | 1049550 | 23.917 | ng | 85 |
| 84) Benzyl Chloride | 25.05 | 91 | 1566778 | 29.276 | ng | 99 |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1214698 | 24.360 | ng | 100 |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 1224382 | 25.328 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 2511190 | 24.634 | ng | 98 |
| 88) p-Isopropyltoluene | 25.40 | 119 | 2362685 | 28.156 | ng | 96 |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 1981543 | 25.391 | ng | 99 |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1181220 | 24.977 | ng | 99 |
| 91) d-Limonene | 25.58 | 68 | 772663 | 24.316 | ng | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 406713 | 27.711 | ng | 95 |
| 93) n-Undecane | 26.50 | 57 | 1122141 | 24.433 | ng | 84 |
| 94) 1,2,4-Trichlorobenzene | 27.62 | 180 | 907482 | 26.198 | ng | 95 |
| 95) Naphthalene | 27.77 | 128 | 2665996 | 25.343 | ng | 99 |
| 96) n-Dodecane | 27.74 | 57 | 1141087 | 24.983 | ng | 82 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 596866 | 25.885 | ng | 99 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290802.D
Acq On : 29 May 2008 5:09 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05160801/S20-05210801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 06:15:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



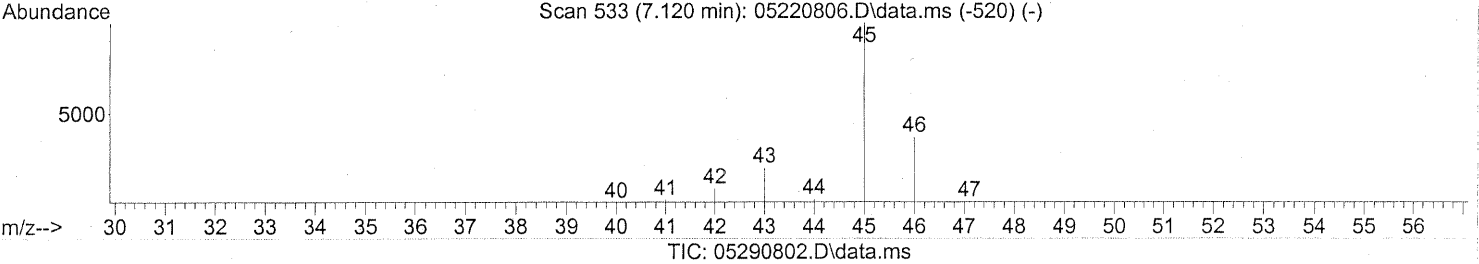
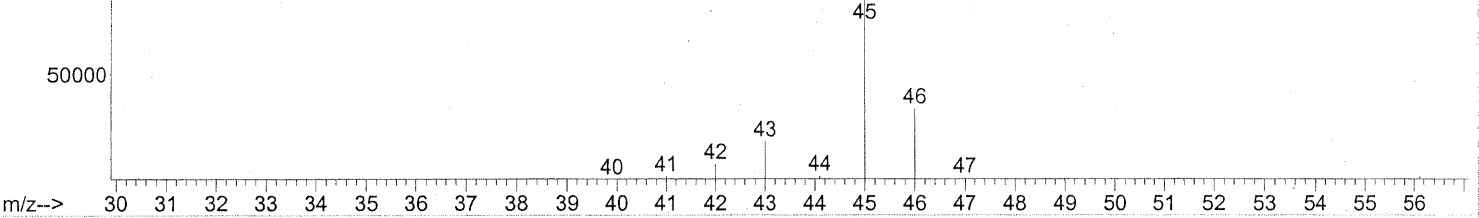
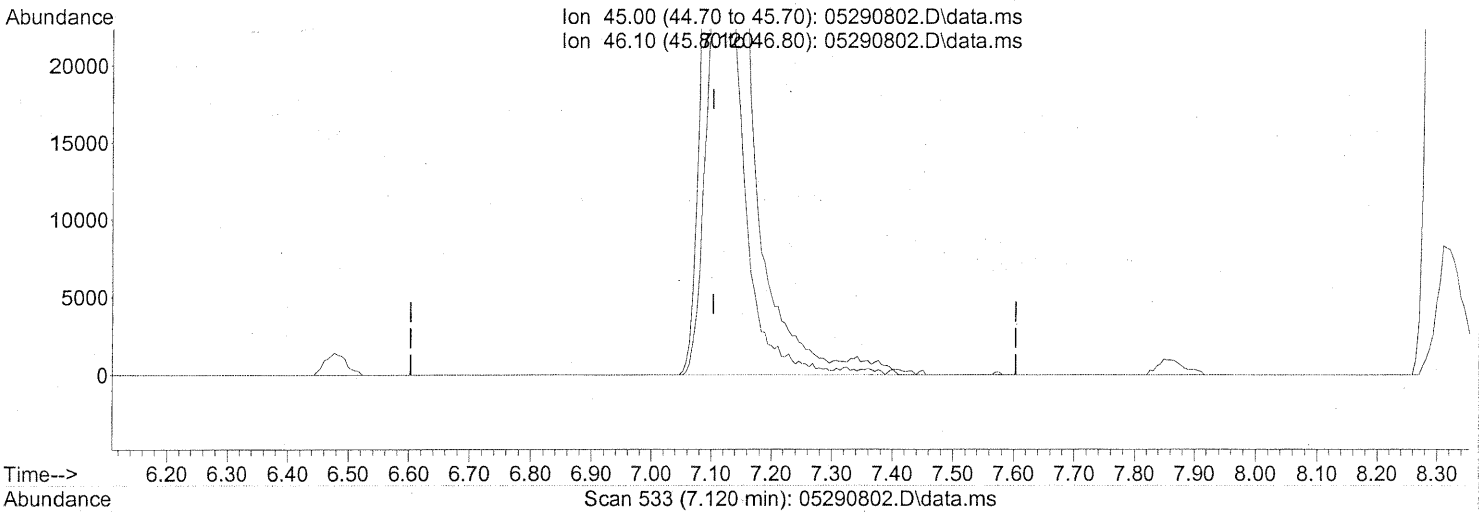
(10) Ethanol (T)
7.120min (+0.017) 19.52ng
response 335102

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.98 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

tailing

Data Path : J:\MS13\DATA\2008_05\29\
Data File : 05290802.D
Acq On : 29 May 2008 5:09 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05160801/S20-05210801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 06:15:28 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(10) Ethanol (T)
7.120min (+0.017) 19.77ng m
response 339322

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 37.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

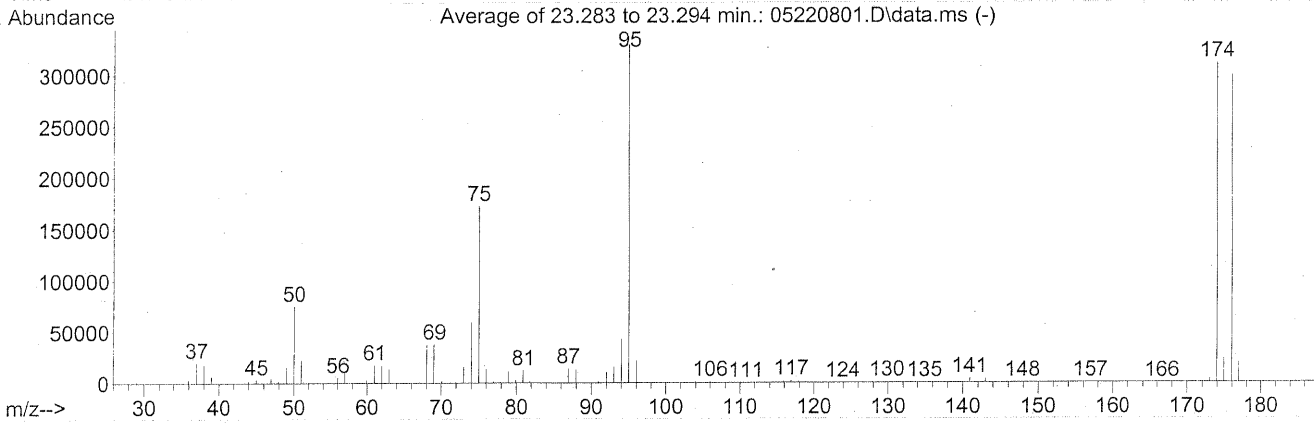
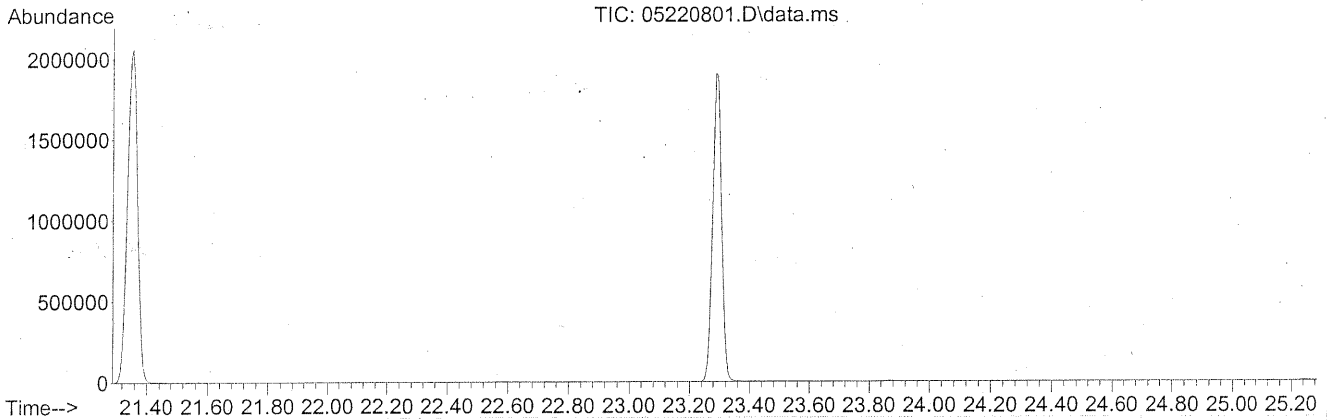
incl. tailing
JOA 5/30/08
SEM 5/30/08

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2008_05\22\
 Data File : 05220801.D
 Acq On : 22 May 2008 3:15 am
 Operator : RTB
 Sample : BFB Tune Standard (200mL)
 Misc : S20-04300802
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3373, 3374, 3375; Background Corrected with Scan 3363

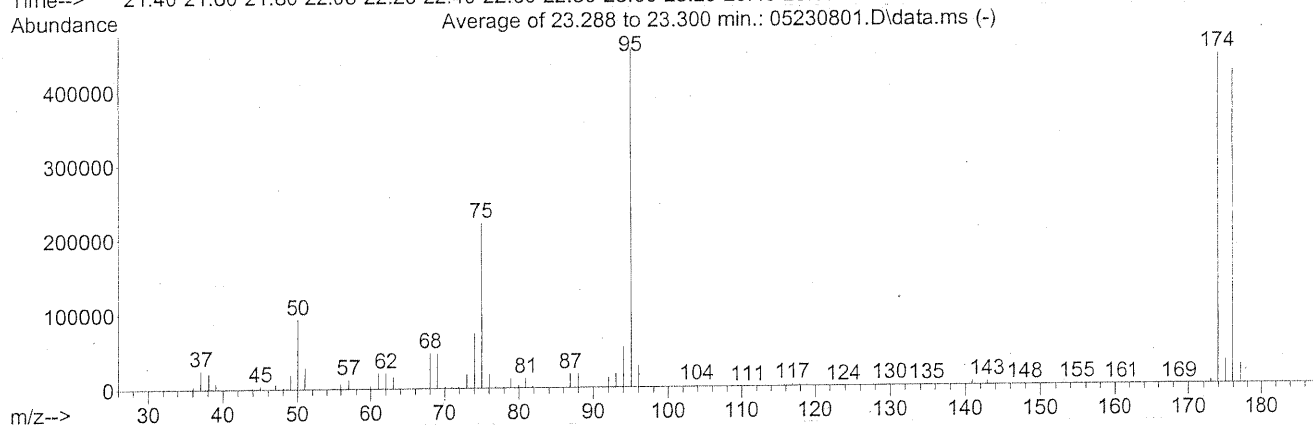
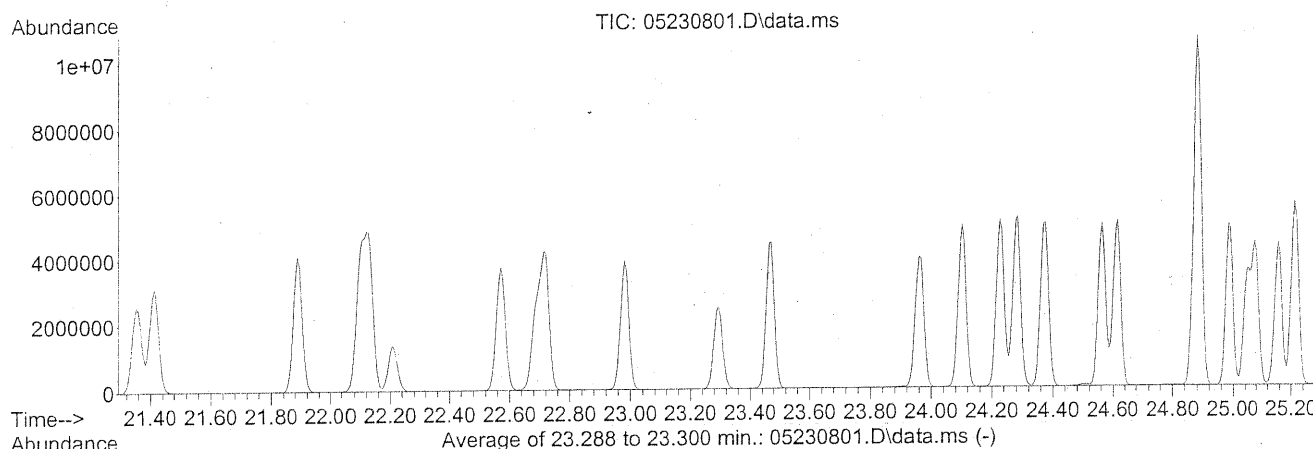
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 8 | 40 | 22.9 | 75640 | PASS |
| 75 | 95 | 30 | 66 | 52.4 | 172992 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 330048 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 21824 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 4088 | PASS |
| 174 | 95 | 50 | 120 | 94.4 | 311659 | PASS |
| 175 | 174 | 4 | 9 | 7.6 | 23637 | PASS |
| 176 | 174 | 93 | 101 | 96.0 | 299328 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 19533 | PASS |

Handwritten: 5/22/08

Data Path : J:\MS13\DATA\2008_05\23\
 Data File : 05230801.D
 Acq On : 23 May 2008 8:26 am
 Operator : RTB
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

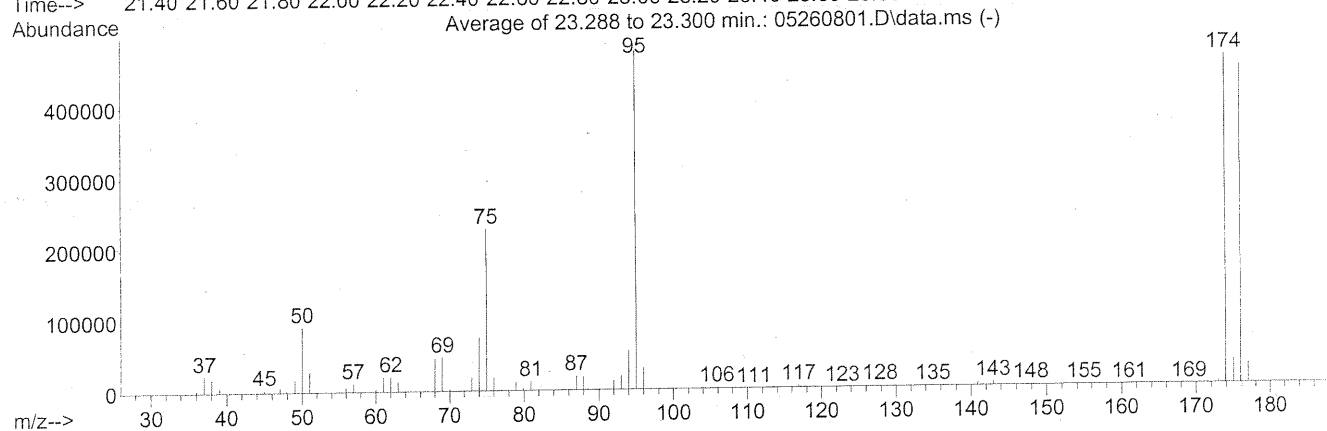
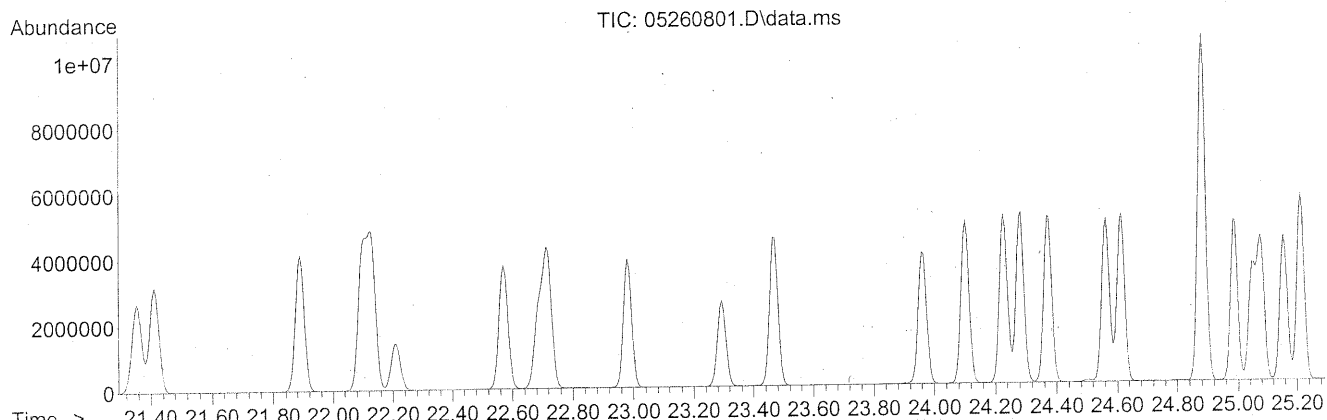
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 8 | 40 | 20.7 | 93936 | PASS |
| 75 | 95 | 30 | 66 | 48.8 | 221696 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 453995 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 29539 | PASS |
| 173 | 174 | 0.00 | 2 | 1.2 | 5265 | PASS |
| 174 | 95 | 50 | 120 | 97.7 | 443669 | PASS |
| 175 | 174 | 4 | 9 | 7.1 | 31683 | PASS |
| 176 | 174 | 93 | 101 | 95.0 | 421376 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 26939 | PASS |

05/23/08

Data Path : J:\MS13\DATA\2008_05\26\
 Data File : 05260801.D
 Acq On : 26 May 2008 9:27
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:37:04 2008



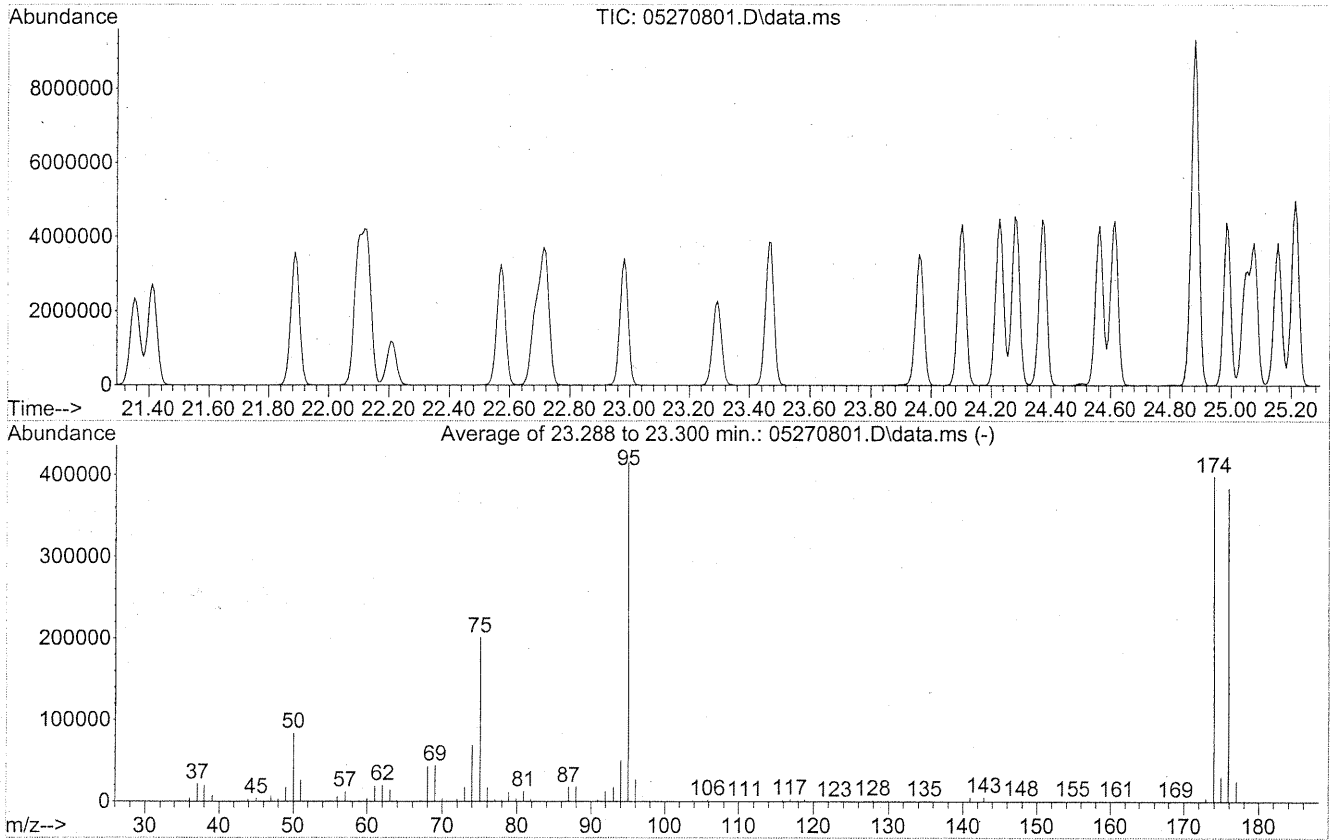
AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3362

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 8 | 40 | 19.3 | 92027 | PASS |
| 75 | 95 | 30 | 66 | 47.9 | 227733 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 475669 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 30883 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 4051 | PASS |
| 174 | 95 | 50 | 120 | 97.2 | 462379 | PASS |
| 175 | 174 | 4 | 9 | 7.5 | 34576 | PASS |
| 176 | 174 | 93 | 101 | 96.7 | 447168 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 28640 | PASS |

Data Path : J:\MS13\DATA\2008_05\27\
 Data File : 05270801.D
 Acq On : 27 May 2008 7:30
 Operator : WA
 Sample : 25ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210804
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:37:04 2008



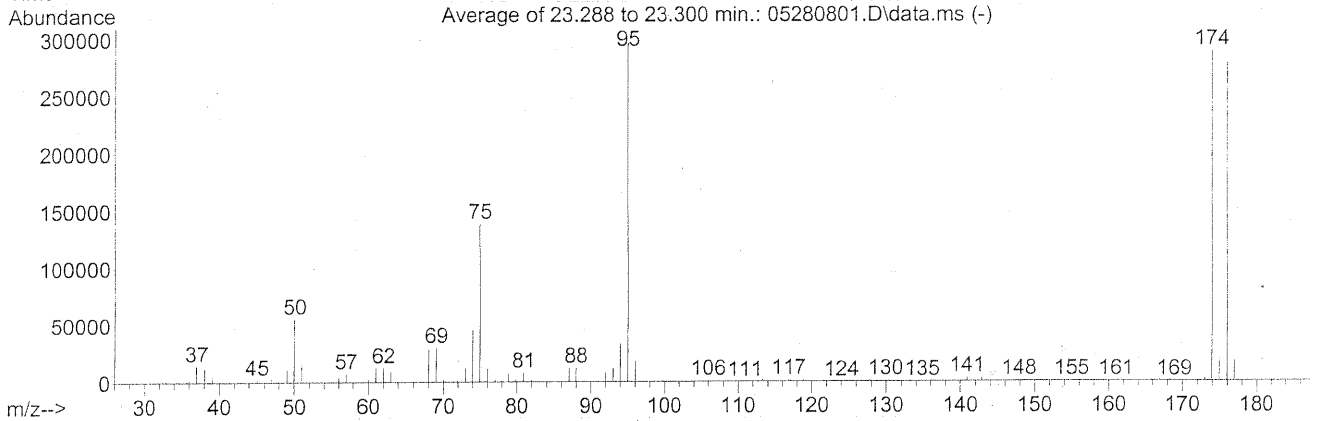
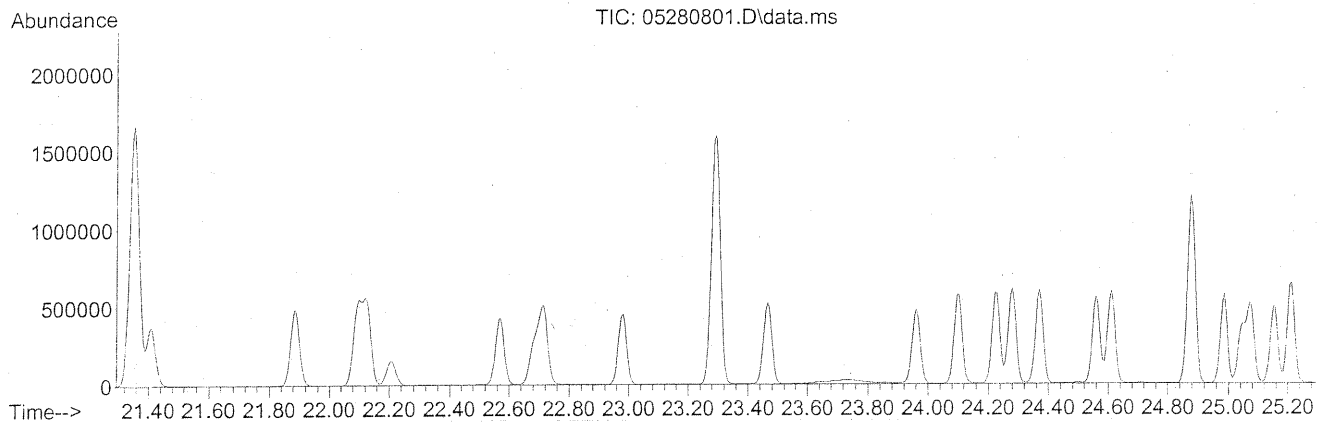
AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 8 | 40 | 20.2 | 83707 | PASS |
| 75 | 95 | 30 | 66 | 48.5 | 201067 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 414464 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 26269 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 4024 | PASS |
| 174 | 95 | 50 | 120 | 95.9 | 397483 | PASS |
| 175 | 174 | 4 | 9 | 7.5 | 29725 | PASS |
| 176 | 174 | 93 | 101 | 96.5 | 383637 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 24629 | PASS |

Data Path : J:\MS13\DATA\2008_05\28\
 Data File : 05280801.D
 Acq On : 28 May 2008 7:18
 Operator : WA
 Sample : 5ng TO-15 CCV Standard
 Misc : S20-05160801/S20-05210806
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:37:04 2008



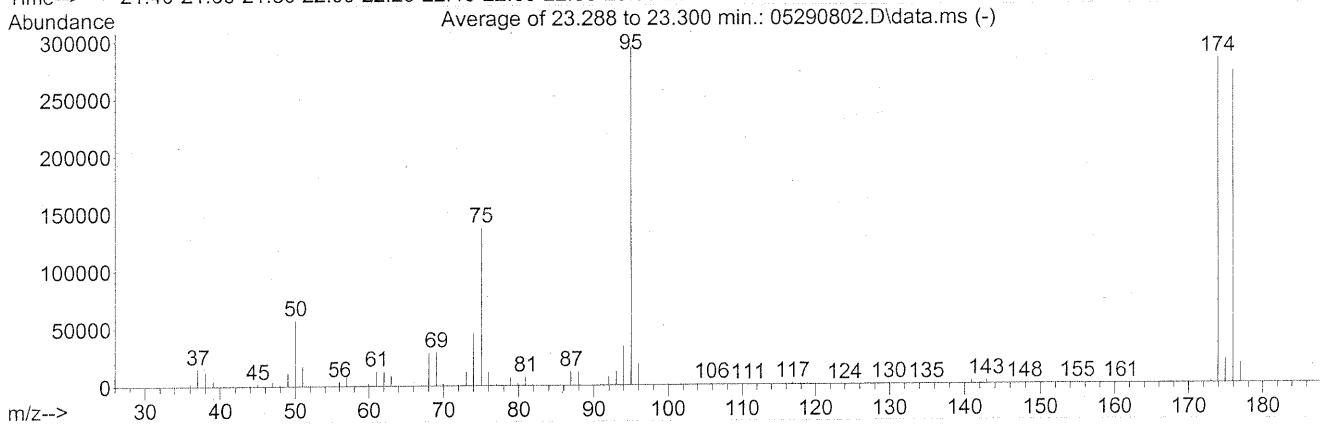
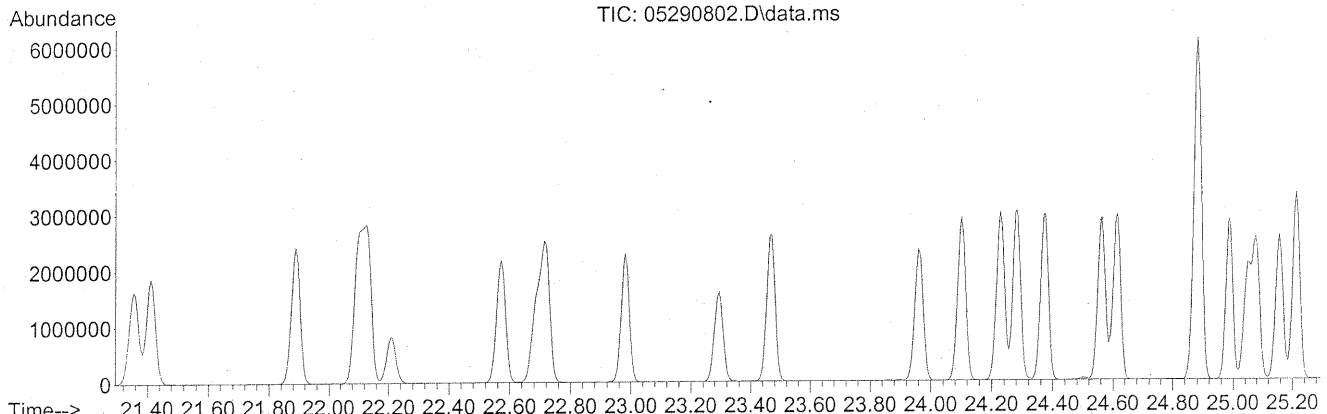
AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 8 | 40 | 19.0 | 56149 | PASS |
| 75 | 95 | 30 | 66 | 46.9 | 138592 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 295381 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 18524 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 2772 | PASS |
| 174 | 95 | 50 | 120 | 97.8 | 288768 | PASS |
| 175 | 174 | 4 | 9 | 7.3 | 20979 | PASS |
| 176 | 174 | 93 | 101 | 96.2 | 277931 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 17776 | PASS |

Data Path : J:\MS13\DATA\2008_05\29\
 Data File : 05290802.D
 Acq On : 29 May 2008 5:09
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-05160801/S20-05210801
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50 | 95 | 8 | 40 | 19.5 | 57427 | PASS |
| 75 | 95 | 30 | 66 | 46.8 | 137483 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 293931 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 18963 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 2921 | PASS |
| 174 | 95 | 50 | 120 | 96.4 | 283307 | PASS |
| 175 | 174 | 4 | 9 | 7.6 | 21565 | PASS |
| 176 | 174 | 93 | 101 | 95.9 | 271637 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 17467 | PASS |

RUN LOGS

| | DATE/TIME | FILENAME | SAMPLE ID | MISC. INFO | AS POS | INIT | COMMENT |
|----|----------------|------------|----------------------|------------|--------|------|---------|
| 15 | 05/21/08 8:29 | 05200815.D | S20-04250805 (125mL) | Test | 13 | RB | |
| 16 | 05/21/08 9:10 | 05200816.D | S20-05020806 (125mL) | Test | 15 | RB | |
| 17 | 05/21/08 9:50 | 05200817.D | S20-04250804 (250mL) | Test | 14 | RB | |
| 18 | 05/21/08 15:19 | 05200818.D | S20-05210804 (125mL) | Test | C | RB | |
| 19 | 05/21/08 16:03 | 05200819.D | S20-05210806 (250mL) | Test | B | RB | |
| 20 | 05/21/08 16:59 | 05200820.D | S20-05210809 (25mL) | Test | 15 | RB | |
| 21 | 05/21/08 21:15 | 05200821.D | Blank (100mL) | Test | 4 | RB | |
| 22 | 05/21/08 22:00 | 05200822.D | Blank (100mL) | Test | 4 | RB | |
| 23 | 05/22/08 2:38 | 05200823.D | Blank (100mL) | Test | 4 | RB | |

3-CP (b. high)

| | | | | | | | |
|----|----------------|------------|---------------------------|---------------------------|----|----|---------------------------|
| 1 | 05/22/08 3:15 | 05220801.D | BFB Tune Standard (200mL) | S20-04300802 | 4 | RB | |
| 2 | 05/22/08 3:56 | 05220802.D | 0.1ng TO-15 ICAL Standard | S20-04300802/S20-05210809 | 15 | RB | ICAL: good for everything |
| 3 | 05/22/08 4:37 | 05220803.D | 0.5ng TO-15 ICAL Standard | S20-04300802/S20-05210806 | B | RB | |
| 4 | 05/22/08 5:18 | 05220804.D | 1ng TO-15 ICAL Standard | S20-04300802/S20-05210806 | B | RB | |
| 5 | 05/22/08 5:58 | 05220805.D | 5ng TO-15 ICAL Standard | S20-04300802/S20-05210806 | B | RB | |
| 6 | 05/22/08 6:39 | 05220806.D | 25ng TO-15 ICAL Standard | S20-04300802/S20-05210804 | C | RB | |
| 7 | 05/22/08 7:20 | 05220807.D | 50ng TO-15 ICAL Standard | S20-04300802/S20-05210804 | C | RB | |
| 8 | 05/22/08 8:01 | 05220808.D | 100ng TO-15 ICAL Standard | S20-04300802/S20-05210804 | C | RB | |
| 9 | 05/22/08 8:41 | 05220809.D | 25ng TO-15 ICV Standard | S20-04300802/S20-04290803 | 16 | RB | |
| 10 | 05/22/08 12:13 | 05220810.D | TO-15 Method Blank (1.0L) | S20-04300802 | 4 | RB | Passed |
| 11 | 05/22/08 13:41 | 05220811.D | P0801459-004 (1000mL) | [REDACTED] (-3.5, 1.0) | 1 | RB | |
| 12 | 05/22/08 14:23 | 05220812.D | P0801459-006 (1000mL) | [REDACTED] (-3.6, 1.0) | 2 | RB | |
| 13 | 05/22/08 15:05 | 05220813.D | P0801459-008 (1000mL) | [REDACTED] (-3.7, 1.0) | 3 | RB | |
| 14 | 05/22/08 15:46 | 05220814.D | P0801459-010 (1000mL) | [REDACTED] (-4.5, 1.2) | 5 | RB | |
| 15 | 05/22/08 16:29 | 05220815.D | P0801459-023 (100mL) | [REDACTED] (-3.1, 1.1) | 6 | RB | |
| 16 | 05/22/08 17:19 | 05220816.D | P0801459-023 DUP (100mL) | [REDACTED] (-3.1, 1.1) | 6 | RB | Passed |
| 17 | 05/22/08 20:00 | 05220817.D | P0801459-011 (1000mL) | [REDACTED] (-2.7, 1.2) | 7 | RB | |
| 18 | 05/22/08 20:40 | 05220818.D | P0801459-012 (400mL) | [REDACTED] (-2.7, 10.0) | 8 | RB | |
| 19 | 05/22/08 21:23 | 05220819.D | P0801459-013 (1000mL) | [REDACTED] (-2.7, 3.1) | 9 | RB | |
| 20 | 05/22/08 22:04 | 05220820.D | P0801459-014 (1000mL) | [REDACTED] (-4.1, 1.0) | 10 | RB | |
| 21 | 05/22/08 22:46 | 05220821.D | P0801459-015 (1000mL) | [REDACTED] (-3.4, 1.0) | 11 | RB | |
| 22 | 05/22/08 23:29 | 05220822.D | P0801459-016 (1000mL) | [REDACTED] (-3.5, 1.4) | 12 | RB | |
| 23 | 05/23/08 0:12 | 05220823.D | P0801459-017 (1000mL) | [REDACTED] (-3.2, 1.0) | 13 | RB | |
| 24 | 05/23/08 0:54 | 05220824.D | P0801459-018 (1000mL) | [REDACTED] (-3.2, 1.0) | 14 | RB | |
| 25 | 05/23/08 1:35 | 05220825.D | P0801459-019 (400mL) | [REDACTED] (-2.7, 10.1) | 15 | RB | |
| 26 | 05/23/08 2:16 | 05220826.D | P0801459-004 DIL (50mL) | [REDACTED] (-3.5, 1.0) | 1 | RB | |
| 27 | 05/23/08 3:01 | 05220827.D | Blank (100mL) | Test | 4 | RB | |
| 28 | 05/23/08 7:08 | 05220828.D | Blank (100mL) | Test | 4 | RB | |
| 29 | 05/23/08 7:45 | 05220829.D | S20-05210806 (250mL) | Test | B | RB | |

| | DATE/TIME | FILENAME | SAMPLE ID | MISC. INFO | AS POS | INIT | COMMENT |
|----|----------------|------------|----------------------|------------|--------|------|---------|
| 15 | 05/21/08 8:29 | 05200815.D | S20-04250805 (125mL) | Test | 13 | RB | |
| 16 | 05/21/08 9:10 | 05200816.D | S20-05020806 (125mL) | Test | 15 | RB | |
| 17 | 05/21/08 9:50 | 05200817.D | S20-04250804 (250mL) | Test | 14 | RB | |
| 18 | 05/21/08 15:19 | 05200818.D | S20-05210804 (125mL) | Test | C | RB | |
| 19 | 05/21/08 16:03 | 05200819.D | S20-05210806 (250mL) | Test | B | RB | |
| 20 | 05/21/08 16:59 | 05200820.D | S20-05210809 (25mL) | Test | 15 | RB | |
| 21 | 05/21/08 21:15 | 05200821.D | Blank (100mL) | Test | 4 | RB | |
| 22 | 05/21/08 22:00 | 05200822.D | Blank (100mL) | Test | 4 | RB | |
| 23 | 05/22/08 2:38 | 05200823.D | Blank (100mL) | Test | 4 | RB | |

-3-CP (b. high)

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|----|----------------|------------|---------------------------|---------------------------|----|----|---------------------------|
| 1 | 05/22/08 3:15 | 05220801.D | BFB Tune Standard (200mL) | S20-04300802 | 4 | RB | |
| 2 | 05/22/08 3:56 | 05220802.D | 0.1ng TO-15 ICAL Standard | S20-04300802/S20-05210809 | 15 | RB | ICAL: good for everything |
| 3 | 05/22/08 4:37 | 05220803.D | 0.5ng TO-15 ICAL Standard | S20-04300802/S20-05210806 | B | RB | |
| 4 | 05/22/08 5:18 | 05220804.D | 1ng TO-15 ICAL Standard | S20-04300802/S20-05210806 | B | RB | |
| 5 | 05/22/08 5:58 | 05220805.D | 5ng TO-15 ICAL Standard | S20-04300802/S20-05210806 | B | RB | |
| 6 | 05/22/08 6:39 | 05220806.D | 25ng TO-15 ICAL Standard | S20-04300802/S20-05210804 | C | RB | |
| 7 | 05/22/08 7:20 | 05220807.D | 50ng TO-15 ICAL Standard | S20-04300802/S20-05210804 | C | RB | |
| 8 | 05/22/08 8:01 | 05220808.D | 100ng TO-15 ICAL Standard | S20-04300802/S20-05210804 | C | RB | |
| 9 | 05/22/08 8:41 | 05220809.D | 25ng TO-15 ICV Standard | S20-04300802/S20-04290803 | 16 | RB | Passed |
| 10 | 05/22/08 12:13 | 05220810.D | TO-15 Method Blank (1.0L) | S20-04300802 | 4 | RB | Passed |
| 11 | 05/22/08 13:41 | 05220811.D | P0801459-004 (1000mL) | [REDACTED] | 1 | RB | |
| 12 | 05/22/08 14:23 | 05220812.D | P0801459-006 (1000mL) | [REDACTED] | 2 | RB | |
| 13 | 05/22/08 15:05 | 05220813.D | P0801459-008 (1000mL) | [REDACTED] | 3 | RB | |
| 14 | 05/22/08 15:46 | 05220814.D | P0801459-010 (1000mL) | [REDACTED] | 5 | RB | |
| 15 | 05/22/08 16:29 | 05220815.D | P0801459-023 (100mL) | [REDACTED] | 6 | RB | |
| 16 | 05/22/08 17:19 | 05220816.D | P0801459-023 DUP (100mL) | [REDACTED] | 6 | RB | Passed |
| 17 | 05/22/08 20:00 | 05220817.D | P0801459-011 (1000mL) | [REDACTED] | 7 | RB | |
| 18 | 05/22/08 20:40 | 05220818.D | P0801459-012 (400mL) | [REDACTED] | 8 | RB | |
| 19 | 05/22/08 21:23 | 05220819.D | P0801459-013 (1000mL) | [REDACTED] | 9 | RB | |
| 20 | 05/22/08 22:04 | 05220820.D | P0801459-014 (1000mL) | [REDACTED] | 10 | RB | |
| 21 | 05/22/08 22:46 | 05220821.D | P0801459-015 (1000mL) | [REDACTED] | 11 | RB | |
| 22 | 05/22/08 23:29 | 05220822.D | P0801459-016 (1000mL) | [REDACTED] | 12 | RB | |
| 23 | 05/23/08 0:12 | 05220823.D | P0801459-017 (1000mL) | [REDACTED] | 13 | RB | |
| 24 | 05/23/08 0:54 | 05220824.D | P0801459-018 (1000mL) | [REDACTED] | 14 | RB | |
| 25 | 05/23/08 1:35 | 05220825.D | P0801459-019 (400mL) | [REDACTED] | 15 | RB | |
| 26 | 05/23/08 2:16 | 05220826.D | P0801459-004 DIL (50mL) | [REDACTED] | 1 | RB | |
| 27 | 05/23/08 3:01 | 05220827.D | Blank (100mL) | Test | 4 | RB | |
| 28 | 05/23/08 7:08 | 05220828.D | Blank (100mL) | Test | 4 | RB | |
| 29 | 05/23/08 7:45 | 05220829.D | S20-05210806 (250mL) | Test | B | RB | |

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|---|----------------|------------|---------------------------|---------------------------|----|----|--|
| 1 | 05/23/08 8:26 | 05230801.D | 25ng TO-15 CCV Standard | S20-05160801/S20-05210804 | C | RB | |
| 2 | 05/23/08 9:08 | 05230802.D | TO-15 Method Blank (1.0L) | S20-05160801 | 4 | RB | |
| 3 | 05/23/08 9:49 | 05230803.D | 25ng TO-15 LCS | S20-05160801/S20-04290803 | 16 | RB | |
| 4 | 05/23/08 10:46 | 05230804.D | P0801459-006 DIL (25mL) | [REDACTED] | 2 | RB | |
| 5 | 05/23/08 11:27 | 05230805.D | P0801459-008 DIL (50mL) | [REDACTED] | 3 | RB | |
| 6 | 05/23/08 12:08 | 05230806.D | P0801459-010 DIL (100mL) | [REDACTED] | 5 | RB | |
| 7 | 05/23/08 12:50 | 05230807.D | P0801459-016 (500mL) | [REDACTED] | 12 | RB | |

| | DATE/TIME | FILENAME | SAMPLE ID | MISC. INFO | AS POS | INIT | COMMENT |
|----|----------------|------------|--------------------------|---------------------------|--------|------|---------|
| 8 | 05/23/08 13:32 | 05230808.D | P0801459-009 (1000mL) | [REDACTED] | 6 | RB | |
| 9 | 05/23/08 14:15 | 05230809.D | P0801459-020 (1000mL) | [REDACTED] | 1 | RB | |
| 10 | 05/23/08 14:58 | 05230810.D | P0801459-021 (1000mL) | [REDACTED] | 8 | RB | |
| 11 | 05/23/08 15:39 | 05230811.D | P0801459-022 (1000mL) | [REDACTED] | 9 | RB | |
| 12 | 05/23/08 16:24 | 05230812.D | P0801483-001 (100mL) | ENSR SG76B-05 (-3.0, 3.7) | 11 | RB | |
| 13 | 05/23/08 17:31 | 05230813.D | P0801483-002 (50mL) | ENSR SG78B-05 (-3.7, 3.5) | 12 | RB | |
| 14 | 05/23/08 18:19 | 05230814.D | P0801483-002 DUP (50mL) | ENSR SG78B-05 (-3.7, 3.5) | 12 | RB | |
| 15 | 05/23/08 19:37 | 05230815.D | P0801459-011 DIL (100mL) | [REDACTED] | 7 | RB | |
| 16 | 05/23/08 20:18 | 05230816.D | P0801459-014 DIL (100mL) | [REDACTED] | 10 | RB | |
| 17 | 05/23/08 20:59 | 05230817.D | P0801459-017 DIL (100mL) | [REDACTED] | 13 | RB | |
| 18 | 05/23/08 21:39 | 05230818.D | P0801459-018 DIL (50mL) | [REDACTED] | 14 | RB | |
| 19 | 05/23/08 22:20 | 05230819.D | P0801459-022 DIL (75mL) | [REDACTED] | 9 | RB | |
| 20 | 05/23/08 23:00 | 05230820.D | P0801483-003 (100mL) | ENSR SG81B-05 (-2.7, 3.5) | 15 | RB | |
| 21 | 05/23/08 23:43 | 05230821.D | P0801483-004 (1000mL) | ENSR SG79B-05 (-2.8, 3.5) | 1 | RB | |
| 22 | 05/24/08 0:24 | 05230822.D | P0801483-005 (75mL) | ENSR SG80B-05 (-3.2, 3.5) | 2 | RB | |
| 23 | 05/24/08 1:05 | 05230823.D | P0801483-006 (75mL) | ENSR SG26B-05 (-5.2, 3.6) | 3 | RB | |
| 24 | 05/24/08 1:45 | 05230824.D | Screen/Test | 1483-007 (25mL) | 5 | RB | |
| 25 | 05/24/08 2:26 | 05230825.D | Screen/Test | 1483-008 (25mL) | 6 | RB | |
| 26 | 05/24/08 3:07 | 05230826.D | Screen/Test | 1483-009 (25mL) | 8 | RB | |
| 27 | 05/24/08 3:52 | 05230827.D | Blank (100mL) | Test | 4 | RB | |
| 28 | 05/24/08 5:38 | 05230828.D | Blank (100mL) | Test | 4 | RB | |
| 29 | 05/24/08 6:18 | 05230829.D | S20-05210806 (25mL) | Test | B | RB | |

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|----|----------------|------------|---------------------------|---------------------------|----|----|--|
| 1 | 05/24/08 6:59 | 05240801.D | 25ng TO-15 CCV Standard | S20-05160801/S20-05210804 | C | RB | |
| 2 | 05/24/08 7:42 | 05240802.D | TO-15 Method Blank (1.0L) | S20-05160801 | 4 | RB | |
| 3 | 05/24/08 8:23 | 05240803.D | 25ng TO-15 LCS | S20-05160801/S20-04290803 | 16 | RB | |
| 4 | 05/24/08 9:04 | 05240804.D | P0801442-008 (5.0ml) | [REDACTED] | 4 | WA | |
| 5 | 05/24/08 9:45 | 05240805.D | P0801442-009 (5.0ml) | [REDACTED] | 4 | WA | |
| 6 | 05/24/08 10:31 | 05240806.D | P0801442-004 (50ml) | [REDACTED] | 5 | WA | |
| 7 | 05/24/08 11:13 | 05240807.D | P0801442-017 (5.0ml) | [REDACTED] | 4 | WA | |
| 8 | 05/24/08 12:35 | 05240809.D | P0801442-014 (40ml) | [REDACTED] | 4 | WA | |
| 9 | 05/24/08 13:15 | 05240810.D | P0801442-014 Dup (40ml) | [REDACTED] | 6 | WA | |
| 10 | 05/24/08 13:56 | 05240811.D | P0801442-001 (500ml) | [REDACTED] | 7 | WA | |
| 11 | 05/24/08 14:37 | 05240812.D | P0801442-002 (500ml) | [REDACTED] | 8 | WA | |
| 12 | 05/24/08 15:17 | 05240813.D | P0801442-003 (500ml) | [REDACTED] | 9 | WA | |
| 13 | 05/24/08 16:00 | 05240814.D | P0801442-005 (1000ml) | [REDACTED] | 10 | WA | |
| 14 | 05/24/08 16:42 | 05240815.D | P0801442-006 (1000ml) | [REDACTED] | 11 | WA | |
| 15 | 05/24/08 17:25 | 05240816.D | P0801442-007 (1000ml) | [REDACTED] | 12 | WA | |
| 16 | 05/24/08 18:08 | 05240817.D | P0801442-010 (1000ml) | [REDACTED] | 13 | WA | |
| 17 | 05/24/08 18:50 | 05240818.D | P0801442-011 (1000ml) | [REDACTED] | 14 | WA | |
| 18 | 05/24/08 19:31 | 05240819.D | P0801442-012 (200ml) | [REDACTED] | 15 | WA | |
| 19 | 05/24/08 20:14 | 05240820.D | P0801442-013 (1000ml) | [REDACTED] | 16 | WA | |
| 20 | 05/24/08 20:54 | 05240821.D | P0801442-015 (500ml) | [REDACTED] | 1 | WA | |
| 21 | 05/24/08 21:35 | 05240822.D | P0801442-016 (400ml) | [REDACTED] | 2 | WA | |
| 22 | 05/24/08 22:16 | 05240823.D | P0801442-018 (75ml) | [REDACTED] | 3 | WA | |
| 23 | 05/24/08 22:56 | 05240824.D | 0.5ng RL check | | 20 | WA | |
| 24 | 05/26/08 8:46 | 05240825.D | S20-05210806 (250mL) | Test | 4 | WA | |

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| 16 | 05/27/08 |
| 17 | 05/27/08 |
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| 20 | 05/27/08 |
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| 24 | 05/27/08 |
| 25 | 05/27/08 |
| 26 | 05/27/08 |
| 1 | 05/27/08 |
| 2 | 05/27/08 |
| 3 | 05/27/08 |
| 4 | 05/27/08 |
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| | DATE/TIME | FILENAME | SAMPLE ID | MISC. INFO | AS POS | INIT | COMMENT |
|----|----------------|------------|-----------------------------|----------------------------|--------|------|---------|
| 1 | 05/26/08 9:27 | 05260801.D | 25ng TO-15 CCV Standard | S20-05160801/S20-05210804 | C | WA | |
| 2 | 05/26/08 10:08 | 05260802.D | .5ng RL Standard | S20-05160801 | B | WA | |
| 3 | 05/26/08 10:50 | 05260803.D | TO-15 Method Blank (1.0L) | S20-05160801 | 4 | WA | |
| 4 | 05/26/08 11:31 | 05260804.D | 25ng TO-15 LCS | S20-05160801/S20-04290803 | 16 | WA | |
| 5 | 05/26/08 12:12 | 05260805.D | 25ng TO-15 LCSD | S20-05160801/S20-04290803 | 16 | WA | |
| 6 | 05/26/08 14:34 | 05260806.D | 25ng TO-15 LCS | S20-05160801/S20-05220806 | 16 | WA | |
| 7 | 05/26/08 15:49 | 05260807.D | P0801483-001 Dil (10ml) | ENSR SG76B-05 (-3.0, 3.7) | 4 | WA | |
| 8 | 05/26/08 16:33 | 05260808.D | P0801483-015 (5.0ml) | ENSR SG61B-05 (-3.5, 3.5) | 1 | WA | |
| 9 | 05/26/08 17:14 | 05260809.D | P0801459-018 Dil (20ml) | | 1 | WA | |
| 10 | 05/26/08 17:55 | 05260810.D | P0801483-002 Dil (20ml) | ENSR SG78B-05 (-3.7, 3.5) | 2 | WA | |
| 11 | 05/26/08 18:36 | 05260811.D | P0801483-002 Dup Dil (20ml) | ENSR SG78B-05 (-3.7, 3.5) | 2 | WA | |
| 12 | 05/26/08 19:17 | 05260812.D | P0801483-003 Dil (50ml) | ENSR SG81B-05 (-2.7, 3.5) | 3 | WA | |
| 13 | 05/26/08 19:58 | 05260813.D | P0801483-005 Dil (25ml) | ENSR SG80B-05 (-3.2, 3.5) | 5 | WA | |
| 14 | 05/26/08 20:38 | 05260814.D | P0801483-006 Dil (25ml) | ENSR SG26B-05 (-5.2, 3.6) | 15 | WA | |
| 15 | 05/26/08 21:19 | 05260815.D | P0801483-007 (200ml) | ENSR SG26B-05D (-5.3, 3.5) | 7 | WA | |
| 16 | 05/26/08 22:00 | 05260816.D | P0801483-007 Dil (25ml) | ENSR SG26B-05D (-5.3, 3.5) | 7 | WA | |
| 17 | 05/26/08 22:41 | 05260817.D | P0801483-08 (150ml) | ENSR SG28B-05D (-3.2, 3.6) | 8 | WA | |
| 18 | 05/26/08 23:22 | 05260818.D | P0801483-008 Dil (25ml) | ENSR SG28B-05D (-3.2, 3.6) | 8 | WA | |
| 19 | 05/27/08 0:03 | 05260819.D | P0801483-009 (500ml) | ENSR SG22B-05 (-3.2, 3.5) | 9 | WA | |
| 20 | 05/27/08 0:44 | 05260820.D | P0801483-009 Dil (50ml) | ENSR SG22B-05 (-3.2, 3.5) | 9 | WA | |
| 21 | 05/27/08 1:25 | 05260821.D | P0801483-010 (75ml) | ENSR SG86B-05 (-3.8, 3.5) | 10 | WA | |
| 22 | 05/27/08 2:06 | 05260822.D | P0801483-010 Dil (25ml) | ENSR SG86B-05 (-3.8, 3.5) | 10 | WA | |
| 23 | 05/27/08 2:47 | 05260823.D | P0801483-011 (50ml) | ENSR SG28B-05 (-3.1, 3.7) | 11 | WA | |
| 24 | 05/27/08 3:27 | 05260824.D | P0801483-012 (20ml) | ENSR SG62B-05 (-2.9, 3.5) | 12 | WA | |
| 25 | 05/27/08 4:08 | 05260825.D | P0801483-013 (250ml) | ENSR SG33B-05 (-6.5, 3.5) | 13 | WA | |
| 26 | 05/27/08 6:39 | 05260826.D | P0801483-001 Dil (10ml) | ENSR SG76B-05 (-3.0, 3.7) | 4 | WA | |

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|----|----------------|------------|-------------------------------|----------------------------|----|----|--|
| 1 | 05/27/08 7:30 | 05270801.D | 25ng TO-15 CCV Standard | S20-05160801/S20-05210804 | C | WA | |
| 2 | 05/27/08 8:11 | 05270802.D | .5ng RL Standard | S20-05160801 | B | WA | |
| 3 | 05/27/08 9:41 | 05270803.D | CAS CAN QC Batch# 1151 (1.0L) | as MB (SC00641) | 4 | WA | |
| 4 | 05/27/08 10:57 | 05270804.D | CAS CAN QC Batch# 1154 (1.0L) | SC00200 | 7 | WA | |
| 5 | 05/27/08 11:38 | 05270805.D | 25ng TO-15 LCS | S20-05160801/S20-05220806 | 16 | WA | |
| 6 | 05/27/08 12:59 | 05270806.D | P0801483-013 (1000ml) | ENSR SG33B-05 (-6.5, 3.5) | 13 | WA | |
| 7 | 05/27/08 13:40 | 05270807.D | P0801483-011 Dil (20ml) | ENSR SG28B-05 (-3.1, 3.7) | 11 | WA | |
| 8 | 05/27/08 14:21 | 05270808.D | P0801483-009 Dil (25ml) | ENSR SG22B-05 (-3.2, 3.5) | 15 | WA | |
| 9 | 05/27/08 15:02 | 05270809.D | P0801483-012 Dil (5ml) | ENSR SG62B-05 (-2.9, 3.5) | 4 | WA | |
| 10 | 05/27/08 15:43 | 05270810.D | P0801483-015 Dil (1ml) | ENSR SG61B-05 (-3.5, 3.5) | 4 | WA | |
| 11 | 05/27/08 16:33 | 05270811.D | P0801483-016 (10ml) | ENSR SG83B-05D (-4.7, 3.7) | 4 | WA | |
| 12 | 05/27/08 17:14 | 05270812.D | P0801483-016 Dil (2ml) | ENSR SG83B-05D (-4.7, 3.7) | 5 | WA | |
| 13 | 05/27/08 18:13 | 05270813.D | P0801483-013 (250ml) | ENSR SG33B-05 (-6.5, 3.5) | 13 | WA | |
| 14 | 05/27/08 18:54 | 05270814.D | P0801483-014 (150ml) | ENSR SG82B-05 (-3.7, 3.7) | 14 | WA | |
| 15 | 05/27/08 19:35 | 05270815.D | P0801483-014 Dil (25ml) | ENSR SG82B-05 (-3.7, 3.7) | 14 | WA | |
| 16 | 05/27/08 20:18 | 05270816.D | P0801483-020 (1000ml) | ENSR SG63B-05 (-3.2, 3.7) | 1 | WA | |
| 17 | 05/27/08 20:58 | 05270817.D | P0801483-018 (500ml) | ENSR SG27B-05 (-3.7, 3.6) | 6 | WA | |
| 18 | 05/27/08 21:41 | 05270818.D | P0801483-021 (1000ml) | ENSR SG16B-05 (-3.1, 3.5) | 2 | WA | |
| 19 | 05/27/08 22:24 | 05270819.D | P0801483-022 (1000ml) | ENSR SG12B-05 (-2.8, 3.6) | 3 | WA | |

| | DATE/TIME | FILENAME | SAMPLE ID | MISC. INFO | AS POS | INIT | COMMENT |
|----|----------------|------------|---------------------------------|----------------------------|--------|------|---------|
| 20 | 05/27/08 23:06 | 05270820.D | P0801483-023 (1000ml) | ENSR SG08B-05 (-2.5, 3.5) | 5 | WA | |
| 21 | 05/27/08 23:49 | 05270821.D | P0801483-024 (1000ml) | ENSR SG09B-05 (-3.6, 3.6) | 7 | WA | |
| 22 | 05/28/08 0:32 | 05270822.D | P0801483-025 (1000ml) | ENSR SG11B-05 (-2.3, 3.5) | 8 | WA | |
| 23 | 05/28/08 1:14 | 05270823.D | P0801483-026 (1000ml) | ENSR SG10B-05 (-2.8, 3.8) | 9 | WA | |
| 24 | 05/28/08 1:55 | 05270824.D | P0801483-018 Dup (500ml) | ENSR SG27B-05 (-3.7, 3.6) | 6 | WA | |
| 25 | 05/28/08 2:37 | 05270825.D | P0801483-027 (1000ml) | ENSR SG07B-05 (-3.8, 3.7) | 10 | WA | |
| 1 | 05/28/08 7:18 | 05280801.D | 5ng TO-15 CCV Standard | S20-05160801/S20-05210806 | C | WA | |
| 2 | 05/28/08 8:00 | 05280802.D | TO-15 Method Blank (1.0L) | S20-05160801 | 4 | WA | |
| 3 | 05/28/08 8:51 | 05280803.D | 25ng TO-15 LCS | S20-05160801/S20-05220806 | 16 | WA | |
| 4 | 05/28/08 9:32 | 05280804.D | P0801483-017 (10ml) | ENSR SG83B-05 (-4.6, 3.5) | 4 | WA | |
| 5 | 05/28/08 12:13 | 05280805.D | P0801483-017 Dil (1.0ml) | ENSR SG83B-05 (-4.6, 3.5) | 4 | WA | |
| 6 | 05/28/08 13:07 | 05280806.D | P0801483-019 (2.5ml) | ENSR SG32B-05 (-3.5, 3.5) | 5 | WA | |
| 7 | 05/28/08 13:48 | 05280807.D | P0801483-020 Dil (200ml) | ENSR SG63B-05 (-3.2, 3.7) | 1 | WA | |
| 8 | 05/28/08 14:29 | 05280808.D | P0801483-022 Dil (200ml) | ENSR SG12B-05 (-2.8, 3.6) | 3 | WA | |
| 9 | 05/28/08 15:22 | 05280809.D | P0801483-019 Dil (0.5ml) | ENSR SG32B-05 (-3.5, 3.5) | 1 | WA | |
| 10 | 05/28/08 17:19 | 05280810.D | 25ng TO-15 LCSD | S20-05160801/S20-05220806 | 16 | WA | |
| 11 | 05/28/08 17:59 | 05280811.D | P0801483-018 Dil (100ml) | ENSR SG27B-05 (-3.7, 3.6) | 6 | WA | |
| 12 | 05/28/08 18:40 | 05280812.D | P0801483-018 Dup Dil (100ml) | ENSR SG27B-05 (-3.7, 3.6) | 6 | WA | |
| 13 | 05/28/08 19:20 | 05280813.D | P0801483-023 Dil (100ml) | ENSR SG08B-05 (-2.5, 3.5) | 5 | WA | |
| 14 | 05/28/08 20:01 | 05280814.D | P0801483-024 Dil (100ml) | ENSR SG09B-05 (-3.6, 3.6) | 7 | WA | |
| 15 | 05/28/08 20:42 | 05280815.D | P0801483-025 Dil (100ml) | ENSR SG11B-05 (-2.3, 3.5) | 8 | WA | |
| 16 | 05/28/08 21:23 | 05280816.D | P0801483-026 Dil (200ml) | ENSR SG10B-05 (-2.8, 3.8) | 9 | WA | |
| 17 | 05/28/08 22:04 | 05280817.D | P0801483-027 Dil (200ml) | ENSR SG07B-05 (-3.8, 3.7) | 10 | WA | |
| 18 | 05/28/08 22:46 | 05280818.D | P0801483-028 (1000ml) | ENSR SG07B-05D (-3.8, 3.7) | 13 | WA | |
| 19 | 05/28/08 23:27 | 05280819.D | P0801483-028 Dil (200ml) | ENSR SG07B-05D (-3.8, 3.7) | 13 | WA | |
| 20 | 05/29/08 0:10 | 05280820.D | P0801483-029 (1000ml) | ENSR SG17B-05 (-3.3, 3.9) | 1 | WA | |
| 21 | 05/29/08 0:53 | 05280821.D | P0801483-030 (1000ml) | ENSR SG18B-05 (-3.2, 3.5) | 2 | WA | |
| 22 | 05/29/08 1:33 | 05280822.D | P0801483-011 Dil (50ml) | ENSR SG28B-05 (-3.1, 3.7) | 11 | WA | |
| 23 | 05/29/08 2:16 | 05280823.D | P0801483-013 (1000ml) | ENSR SG33B-05 (-6.5, 3.5) | 13 | WA | |
| 24 | 05/29/08 2:57 | 05280824.D | P0801483-029 Dil (100ml) | ENSR SG17B-05 (-3.3, 3.9) | 1 | WA | |
| 25 | 05/29/08 3:38 | 05280825.D | Blank | | 4 | | |
| 1 | 05/29/08 4:28 | 05290801.D | Blank | | 4 | | |
| 2 | 05/29/08 5:09 | 05290802.D | 25ng TO-15 CCV STD | S20-05160801/S20-05210801 | C | WA | |
| 3 | 05/29/08 5:50 | 05290803.D | 0.5 rl | | B | WA | |
| 4 | 05/29/08 6:32 | 05290804.D | TO-15 Method Blank (1000ml) | S20-05160801 | 4 | WA | |
| 5 | 05/29/08 7:26 | 05290805.D | QC Tank HZA Lot# 481241323291 | 1000ml | 3 | WA | |
| 6 | 05/29/08 8:30 | 05290806.D | P0801459-016 Dil (25ml) | [REDACTED] | 14 | WA | |
| 7 | 05/29/08 9:11 | 05290807.D | P0801459-018 Dil (25ml) | [REDACTED] | 12 | WA | |
| 8 | 05/29/08 9:52 | 05290808.D | P0801459-021 Dil (25ml) | [REDACTED] | 16 | WA | |
| 9 | 05/29/08 10:35 | 05290809.D | CAS CAN QC Batch# 1166 (1000ml) | SC00153 | 3 | WA | |
| 10 | 05/29/08 11:28 | 05290810.D | P0801483-030 Dil (50ml) | ENSR SG18B-05 (-3.2, 3.5) | 2 | WA | |
| 11 | 05/29/08 12:09 | 05290811.D | P0801483-011 Dil (20ml) | ENSR SG28B-05 (-3.1, 3.7) | 3 | WA | |
| 12 | 05/29/08 12:49 | 05290812.D | 25ng TO-15 LCS | S20-05160801/S20-05290805 | 16 | WA | |
| 13 | 05/29/08 13:30 | 05290813.D | 25ng TO-15 LCSD | S20-05160801/S20-05290805 | 16 | WA | |
| 14 | 05/29/08 15:26 | 05290814.D | 25ng TO-15 LCS | S20-05160801/S20-05290805 | 16 | WA | |

| | DATE |
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| 29 | 05/31/08 |
| 30 | 05/31/08 |
| 31 | 05/31/08 |
| 32 | 05/31/08 |
| 1 | 06/02/08 |
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| 12 | 06/02/08 |
| 13 | 06/02/08 |

REANALYZED SAMPLE & DUPLICATE

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00379

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 6/4/08
 Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-----------|--|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 75-71-8 | Dichlorodifluoromethane (CFC 12) | 1.9 | 17 | 1.7 | 0.39 | 3.3 | 0.33 | J |
| 74-87-3 | Chloromethane | ND | 3.3 | 1.7 | ND | 1.6 | 0.80 | |
| 76-14-2 | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | 17 | 1.7 | ND | 2.4 | 0.24 | |
| 75-01-4 | Vinyl Chloride | ND | 3.3 | 1.7 | ND | 1.3 | 0.65 | |
| 74-83-9 | Bromomethane | ND | 3.3 | 1.7 | ND | 0.85 | 0.43 | |
| 75-00-3 | Chloroethane | ND | 3.3 | 1.7 | ND | 1.3 | 0.63 | |
| 64-17-5 | Ethanol | 5.8 | 170 | 1.7 | 3.1 | 88 | 0.88 | J |
| 67-64-1 | Acetone | 19 | 170 | 2.4 | 8.0 | 69 | 1.0 | J, B |
| 75-69-4 | Trichlorofluoromethane | ND | 3.3 | 1.7 | ND | 0.59 | 0.29 | |
| 107-13-1 | Acrylonitrile | ND | 17 | 2.3 | ND | 7.6 | 1.1 | |
| 75-35-4 | 1,1-Dichloroethene | 4.1 | 3.3 | 1.7 | 1.0 | 0.83 | 0.42 | |
| 75-65-0 | 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | 17 | 2.4 | ND | 5.4 | 0.81 | |
| 75-09-2 | Methylene Chloride | 9.1 | 17 | 1.7 | 2.6 | 4.8 | 0.48 | J |
| 107-05-1 | 3-Chloro-1-propene (Allyl Chloride) | ND | 3.3 | 1.7 | ND | 1.1 | 0.53 | |
| 76-13-1 | Trichlorotrifluoroethane | ND | 3.3 | 1.8 | ND | 0.43 | 0.24 | |
| 75-15-0 | Carbon Disulfide | ND | 17 | 4.0 | ND | 5.3 | 1.3 | |
| 156-60-5 | trans-1,2-Dichloroethene | ND | 3.3 | 1.7 | ND | 0.83 | 0.42 | |
| 75-34-3 | 1,1-Dichloroethane | ND | 3.3 | 1.7 | ND | 0.82 | 0.41 | |
| 1634-04-4 | Methyl tert-Butyl Ether | ND | 3.3 | 1.7 | ND | 0.92 | 0.46 | |
| 108-05-4 | Vinyl Acetate | ND | 170 | 5.3 | ND | 47 | 1.5 | |
| 78-93-3 | 2-Butanone (MEK) | 4.7 | 17 | 1.7 | 1.6 | 5.6 | 0.56 | J |
| 156-59-2 | cis-1,2-Dichloroethene | ND | 3.3 | 1.7 | ND | 0.83 | 0.42 | |
| 108-20-3 | Diisopropyl Ether | ND | 17 | 1.9 | ND | 3.9 | 0.47 | |
| 67-66-3 | Chloroform | 6,900 | 3.3 | 1.9 | 1,400 | 0.68 | 0.40 | E |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

E = Estimated; result based on response which exceeded the instrument calibration range.

Verified By: Date: 6/4/08 **1854**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00379

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 6/4/08
 Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|------------|-----------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 17 | 1.7 | ND | 3.9 | 0.40 | |
| 107-06-2 | 1,2-Dichloroethane | ND | 3.3 | 1.7 | ND | 0.82 | 0.41 | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 3.3 | 1.7 | ND | 0.61 | 0.30 | |
| 71-43-2 | Benzene | 3.5 | 3.3 | 1.7 | 1.1 | 1.0 | 0.52 | |
| 56-23-5 | Carbon Tetrachloride | 7.1 | 3.3 | 1.7 | 1.1 | 0.52 | 0.26 | |
| 994-05-8 | tert-Amyl Methyl Ether | ND | 17 | 1.7 | ND | 3.9 | 0.39 | |
| 78-87-5 | 1,2-Dichloropropane | ND | 3.3 | 1.7 | ND | 0.71 | 0.36 | |
| 75-27-4 | Bromodichloromethane | 30 | 3.3 | 1.7 | 4.4 | 0.49 | 0.25 | |
| 79-01-6 | Trichloroethene | 69 | 3.3 | 1.7 | 13 | 0.61 | 0.31 | |
| 123-91-1 | 1,4-Dioxane | ND | 17 | 2.0 | ND | 4.6 | 0.56 | |
| 80-62-6 | Methyl Methacrylate | ND | 17 | 2.5 | ND | 4.0 | 0.60 | |
| 142-82-5 | n-Heptane | ND | 17 | 2.1 | ND | 4.0 | 0.52 | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 17 | 1.7 | ND | 3.6 | 0.38 | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 17 | 1.8 | ND | 4.0 | 0.45 | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 17 | 2.1 | ND | 3.6 | 0.46 | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 3.3 | 1.7 | ND | 0.61 | 0.30 | |
| 108-88-3 | Toluene | 3.3 | 17 | 1.7 | 0.87 | 4.4 | 0.44 | J |
| 591-78-6 | 2-Hexanone | ND | 17 | 2.5 | ND | 4.0 | 0.61 | |
| 124-48-1 | Dibromochloromethane | 17 | 3.3 | 2.2 | 2.0 | 0.39 | 0.26 | |
| 106-93-4 | 1,2-Dibromoethane | ND | 3.3 | 1.8 | ND | 0.43 | 0.23 | |
| 111-65-9 | n-Octane | ND | 17 | 1.7 | ND | 3.5 | 0.35 | |
| 127-18-4 | Tetrachloroethene | 97 | 3.3 | 1.7 | 14 | 0.49 | 0.24 | |
| 108-90-7 | Chlorobenzene | ND | 3.3 | 1.7 | ND | 0.72 | 0.37 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/4/08

1855

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00379

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 6/4/08
 Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| CAS # | Compound | Result µg/m ³ | MRL µg/m ³ | MDL µg/m ³ | Result ppbV | MRL ppbV | MDL ppbV | Data Qualifier |
|-------------|-------------------------------|-----------------------------|--------------------------|--------------------------|----------------|-------------|-------------|-------------------|
| 100-41-4 | Ethylbenzene | ND | 17 | 2.0 | ND | 3.8 | 0.47 | |
| 179601-23-1 | m,p-Xylenes | 5.9 | 17 | 4.3 | 1.4 | 3.8 | 0.99 | J |
| 75-25-2 | Bromoform | 24 | 17 | 2.5 | 2.4 | 1.6 | 0.24 | |
| 100-42-5 | Styrene | ND | 17 | 2.5 | ND | 3.9 | 0.59 | |
| 95-47-6 | o-Xylene | 3.0 | 17 | 2.1 | 0.69 | 3.8 | 0.48 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 3.3 | 2.1 | ND | 0.48 | 0.31 | |
| 98-82-8 | Cumene | ND | 17 | 1.8 | ND | 3.4 | 0.38 | |
| 103-65-1 | n-Propylbenzene | ND | 17 | 1.7 | ND | 3.4 | 0.35 | |
| 622-96-8 | 4-Ethyltoluene | ND | 17 | 1.9 | ND | 3.4 | 0.38 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 17 | 2.0 | ND | 3.4 | 0.40 | |
| 98-83-9 | alpha-Methylstyrene | ND | 17 | 2.4 | ND | 3.4 | 0.50 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.5 | 17 | 2.3 | 0.71 | 3.4 | 0.46 | J |
| 100-44-7 | Benzyl Chloride | ND | 3.3 | 2.8 | ND | 0.64 | 0.55 | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 3.3 | 2.0 | ND | 0.55 | 0.34 | |
| 106-46-7 | 1,4-Dichlorobenzene | 3.9 | 3.3 | 1.8 | 0.65 | 0.55 | 0.31 | |
| 135-98-8 | sec-Butylbenzene | ND | 17 | 1.9 | ND | 3.0 | 0.35 | |
| 99-87-6 | 4-Isopropyltoluene (p-Cymene) | ND | 17 | 2.1 | ND | 3.0 | 0.39 | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 3.3 | 2.2 | ND | 0.55 | 0.36 | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 17 | 2.5 | ND | 1.7 | 0.26 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 3.3 | 2.5 | ND | 0.44 | 0.34 | |
| 91-20-3 | Naphthalene | 4.1 | 6.6 | 2.4 | 0.78 | 1.3 | 0.47 | J |
| 87-68-3 | Hexachlorobutadiene | ND | 3.3 | 3.0 | ND | 0.31 | 0.28 | |
| 98-06-6 | tert-Butylbenzene | ND | 6.6 | 1.7 | ND | 1.2 | 0.30 | |
| 104-51-8 | n-Butylbenzene | ND | 6.6 | 1.7 | ND | 1.2 | 0.30 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

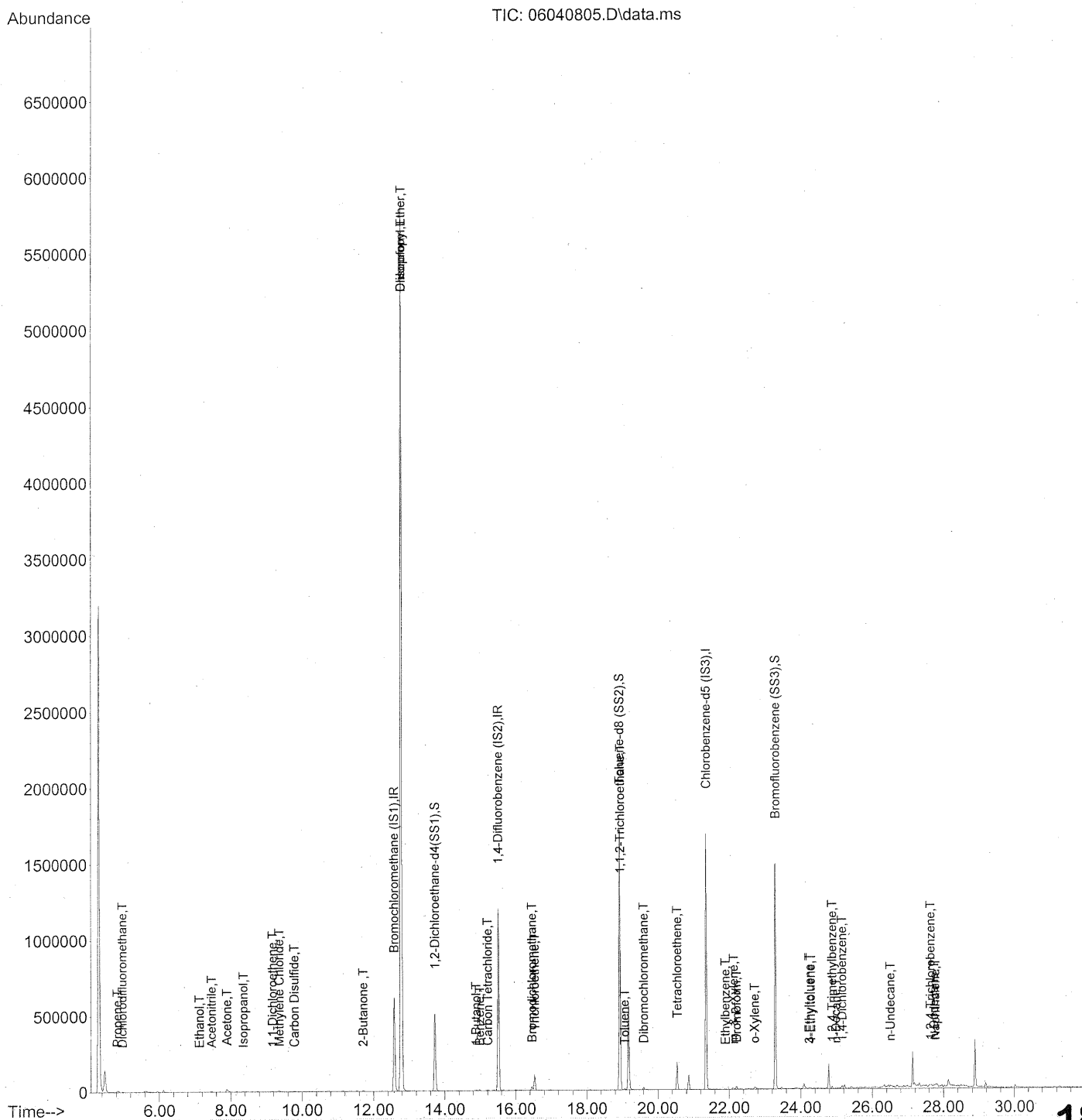
Verified By:

Date: 6/4/08

1856

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------|-------|-----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 325111 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1406017 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 667013 | 25.000 | ng | 0.00 |

System Monitoring Compounds

| | | | | | | |
|--------------------------------|--------|-----|----------|--------|--------|------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 518337 | 23.010 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 92.04% | |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1462666 | 24.417 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 97.68% | |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 582153 | 23.898 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 95.60% | |

Target Compounds

| | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------------------|-------|--------|
| 2) Propene | 4.83 | 42 | 4316 | 0.168 | ng | # 66 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 2814 | 0.059 | ng | # 88 |
| 4) Chloromethane | 5.32 | 50 | 717 | N.D. | ✓ | |
| 5) Freon 114 | 5.56 | 135 | 189 | N.D. | ✓ | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 5.94 | 54 | 104 | N.D. | | |
| 8) Bromomethane | 6.52 | 94 | 224 | N.D. | ✓ | |
| 9) Chloroethane | 0.00 | 64 | 0 | N.D. | ✓ | |
| 10) Ethanol | 7.13 | 45 | 3009 | 0.176 | ng | 82 |
| 11) Acetonitrile | 7.46 | 41 | 3361 | 0.068 | ng | # 55 |
| 12) Acrolein | 7.66 | 56 | 271 | N.D. | | |
| 13) Acetone | 7.89 | 58 | 10125 | 0.579 | ng | # 59 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 1312 | N.D. | ✓ | |
| 15) Isopropanol | 8.36 | 45 | 2671 | 0.048 | ng | 98 |
| 16) Acrylonitrile | 8.65 | 53 | 57 | N.D. | ✓ | |
| 17) 1,1-Dichloroethene | 9.17 | 96 | 2226 | 0.125 | ng | # 82 |
| 18) tert-Butanol | 9.31 | 59 | 935 | N.D. | ✓ | |
| 19) Methylene Chloride | 9.36 | 84 | 5391 | 0.276 | ng | # 81 |
| 20) Allyl Chloride | 9.46 | 41 | 119 | N.D. | ✓ | |
| 21) Trichlorotrifluoroethane | 9.81 | 151 | 165 | N.D. | ✓ | |
| 22) Carbon Disulfide | 9.78 | 76 | 7238 | 0.098 | ng | 100 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 1008 | N.D. | ✓ | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | ✓ | |
| 26) Vinyl Acetate | 11.34 | 86 | 58 | N.D. | ✓ | |
| 27) 2-Butanone | 11.71 | 72 | 1831 | 0.143 | ng | # 82 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | ✓ | |
| 29) Diisopropyl Ether | 12.78 | 87 | 662713 | 42.340 | ng | 1 |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 12.70 | 57 | 741 | N.D. | | |

1858

Handwritten signature: P. G. O. / 08

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|--------------------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 6195061 | 208.967 | ng | 99 |
| 34) Tetrahydrofuran | 13.41 | 72 | 52 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. ✓ | | |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 76 | N.D. ✓ | | |
| 38) 1,1,1-Trichloroethane | 14.29 | 97 | 66 | N.D. ✓ | | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 40) 1-Butanol | 14.88 | 56 | 6929 | 0.359 | ng | 94 |
| 41) Benzene | 14.99 | 78 | 7867 | 0.107 | ng | 97 |
| 42) Carbon Tetrachloride | 15.21 | 117 | 6075 | 0.214 | ng | 94 |
| 43) Cyclohexane | 15.39 | 84 | 53 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. ✓ | | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 350 | N.D. ✓ | | |
| 46) Bromodichloromethane | 16.46 | 83 | 22242 | 0.894 | ng | 97 |
| 47) Trichloroethene | 16.53 | 130 | 47559 | 2.106 | ng | 98 |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. ✓ | | |
| 49) Isooctane | 16.62 | 57 | 615 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. ✓ | | |
| 51) n-Heptane | 16.98 | 71 | 63 | N.D. ✓ | | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. ✓ | | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. ✓ | | |
| 54) trans-1,3-Dichloropropene | 18.45 | 75 | 52 | N.D. ✓ | | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 125282 | 6.887 | ng | 8 |
| 58) Toluene | 19.06 | 91 | 8080 | 0.099 | ng | 97 |
| 59) 2-Hexanone | 19.39 | 43 | 1446 | N.D. ✓ | | |
| 60) Dibromochloromethane | 19.60 | 129 | 11236 | 0.511 | ng | 98 |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. ✓ | | |
| 62) Butyl Acetate | 20.19 | 43 | 127 | N.D. | | |
| 63) n-Octane | 0.00 | 57 | 0 | N.D. ✓ | | |
| 64) Tetrachloroethene | 20.54 | 166 | 71119 | 2.952 | ng | 98 |
| 65) Chlorobenzene | 21.42 | 112 | 1447 | N.D. ✓ | | |
| 66) Ethylbenzene | 21.89 | 91 | 3997 | 0.043 | ng | 87 |
| 67) m- & p-Xylene | 22.13 | 91 | 11168 | 0.179 | ng | 24 |
| 68) Bromoform | 22.21 | 173 | 12113 | 0.740 | ng | 92 |
| 69) Styrene | 22.58 | 104 | 1058 | N.D. ✓ | | |
| 70) o-Xylene | 22.71 | 91 | 6116 | 0.091 | ng | 91 |
| 71) n-Nonane | 22.98 | 43 | 209 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 0.00 | 83 | 0 | N.D. ✓ | | |
| 74) Cumene | 23.46 | 105 | 746 | N.D. ✓ | | |
| 75) alpha-Pinene | 23.96 | 93 | 403 | N.D. | | |
| 76) n-Propylbenzene | 24.11 | 91 | 1752 | N.D. ✓ | | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 5166 | 0.054 | ng | 91 |
| 78) 4-Ethyltoluene | 24.28 | 105 | 3649 | 0.041 | ng | 78 |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 1573 | N.D. ✓ | | |

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|------------------|-------|-----------|
| 80) alpha-Methylstyrene | 24.57 | 118 | 249 | N.D. | ✓ | |
| 81) 2-Ethyltoluene | 24.61 | 105 | 2563 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 8656 | 0.106 | ng | 74 |
| 83) n-Decane | 24.98 | 57 | 2518 | 0.056 | ng | 95 |
| 84) Benzyl Chloride | 25.04 | 91 | 790 | N.D. | ✓ | |
| 85) 1,3-Dichlorobenzene | 25.08 | 146 | 1736 | N.D. | ✓ | |
| 86) 1,4-Dichlorobenzene | 25.16 | 146 | 5852 | 0.118 | ng | 99 |
| 87) sec-Butylbenzene | 25.21 | 105 | 2108 | N.D. | ✓ | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 1565 | N.D. | ✓ | |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 2071 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1243 | N.D. | ✓ | |
| 91) d-Limonene | 25.58 | 68 | 1132 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 26.11 | 157 | 213 | N.D. | ✓ | |
| 93) n-Undecane | 26.50 | 57 | 6420 | 0.136 | ng | # 41 |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 2546 | 0.072 | ng | 84 |
| 95) Naphthalene | 27.77 | 128 | 13378 | 0.124 | ng | 99 |
| 96) n-Dodecane | 27.73 | 57 | 4905 | 0.105 | ng | # 58 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 565 | N.D. | ✓ | |

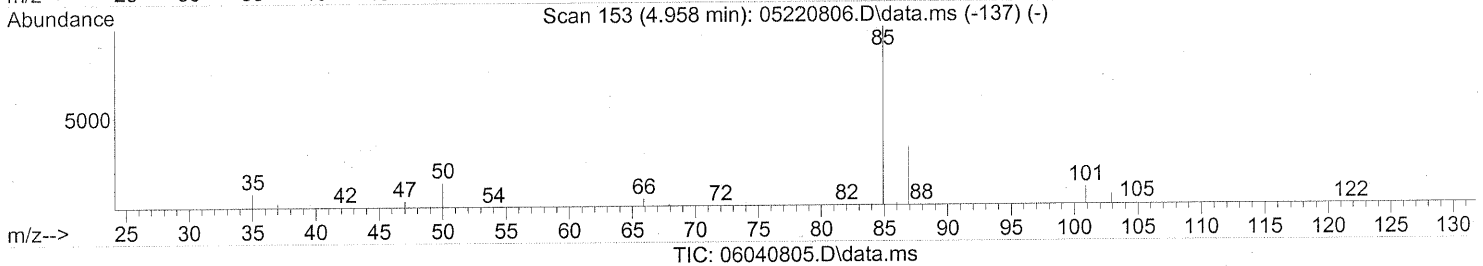
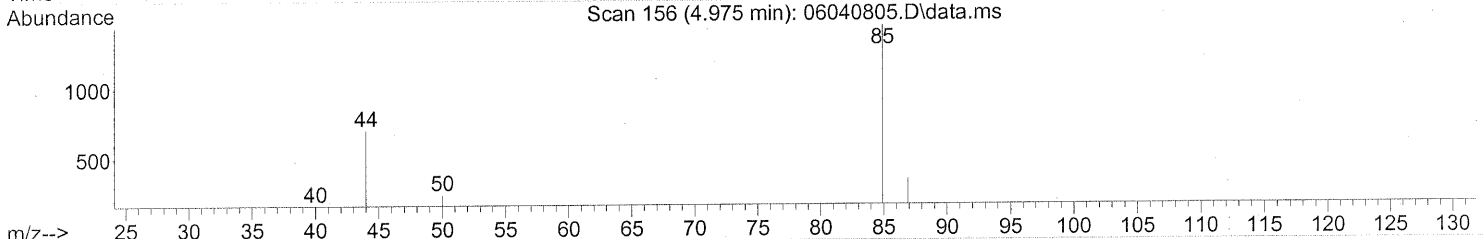
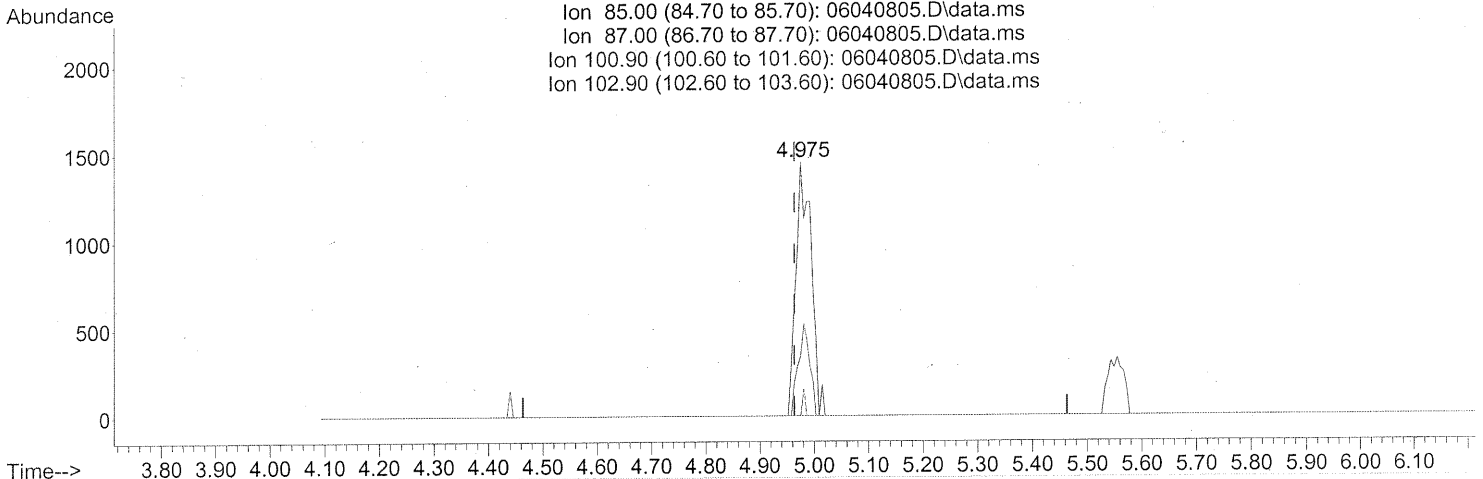
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Pacl04/08

Quantitation Report (Qealt)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040805.D
Acq On : 4 Jun 2008 11:09 am
Operator : RTB
Sample : P0801483-002 (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

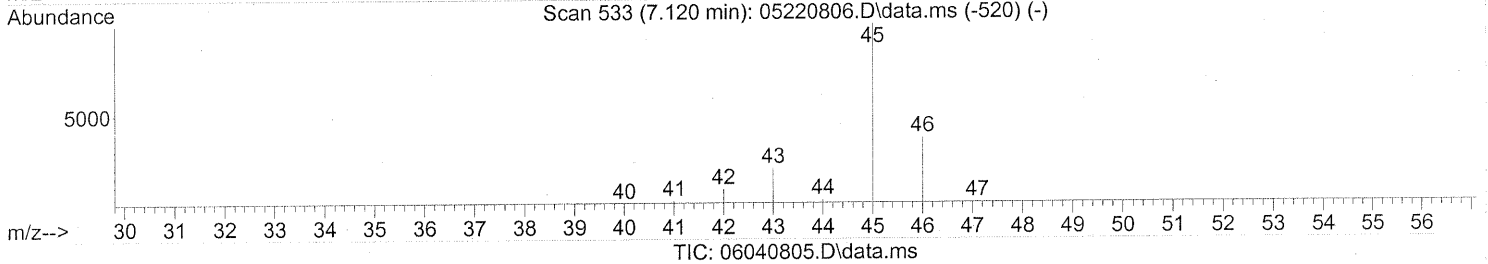
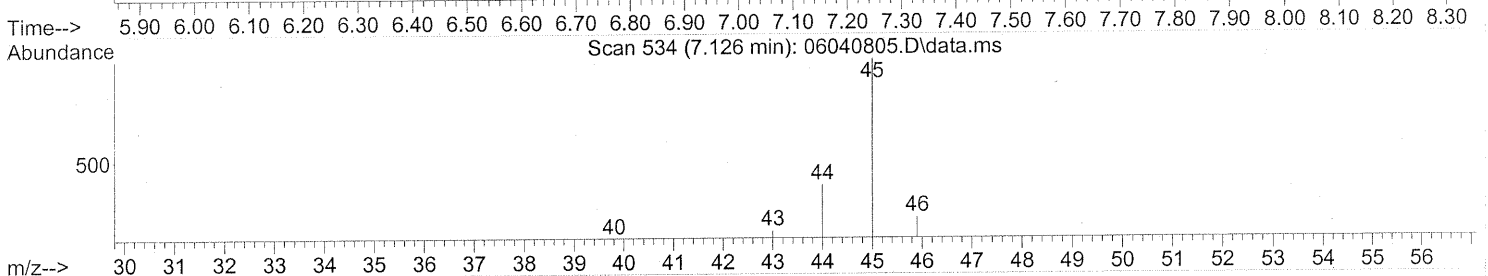
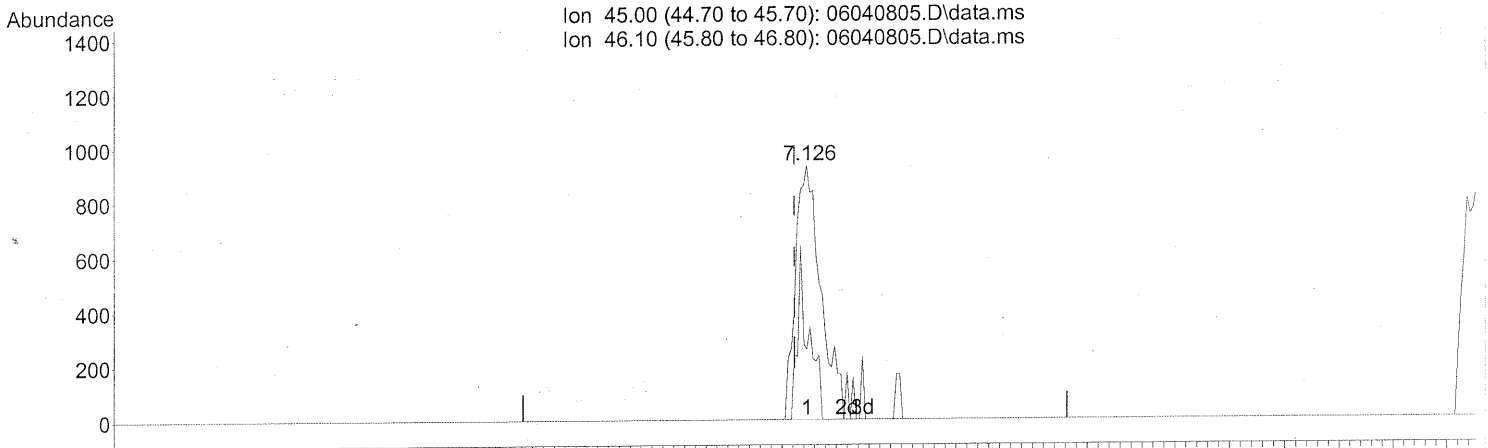
4.975min (+0.011) 0.06ng

response 2814

| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 27.54 |
| 100.90 | 9.30 | 1.92 |
| 102.90 | 6.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.126min (+0.023) 0.18ng

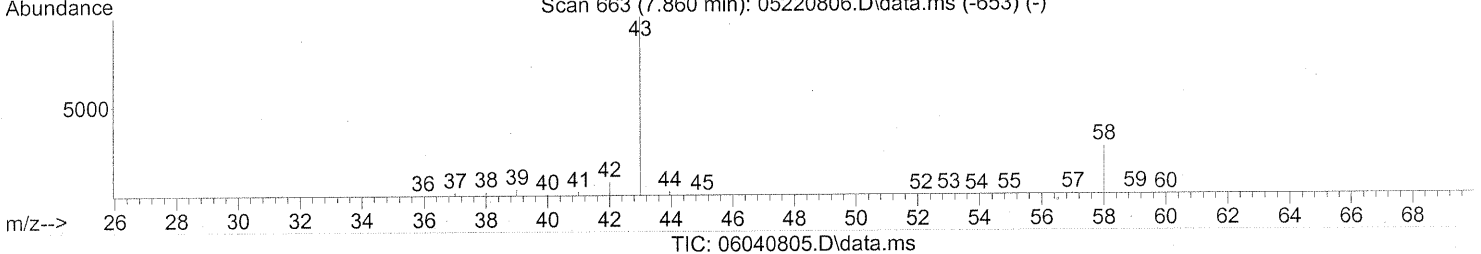
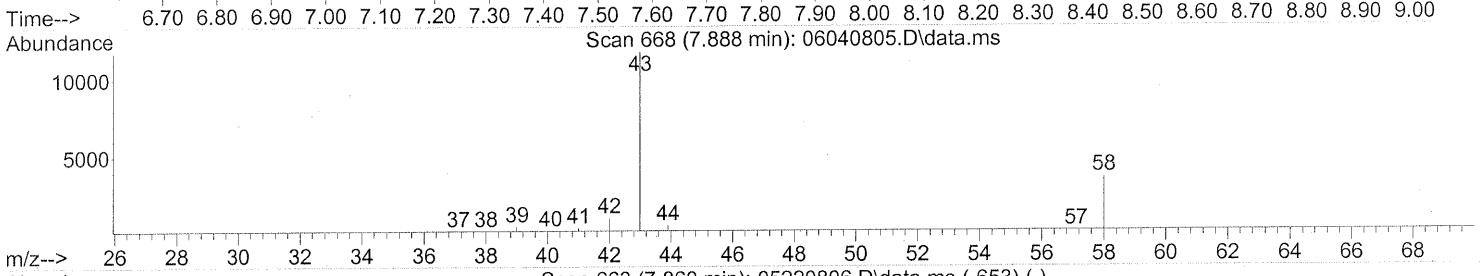
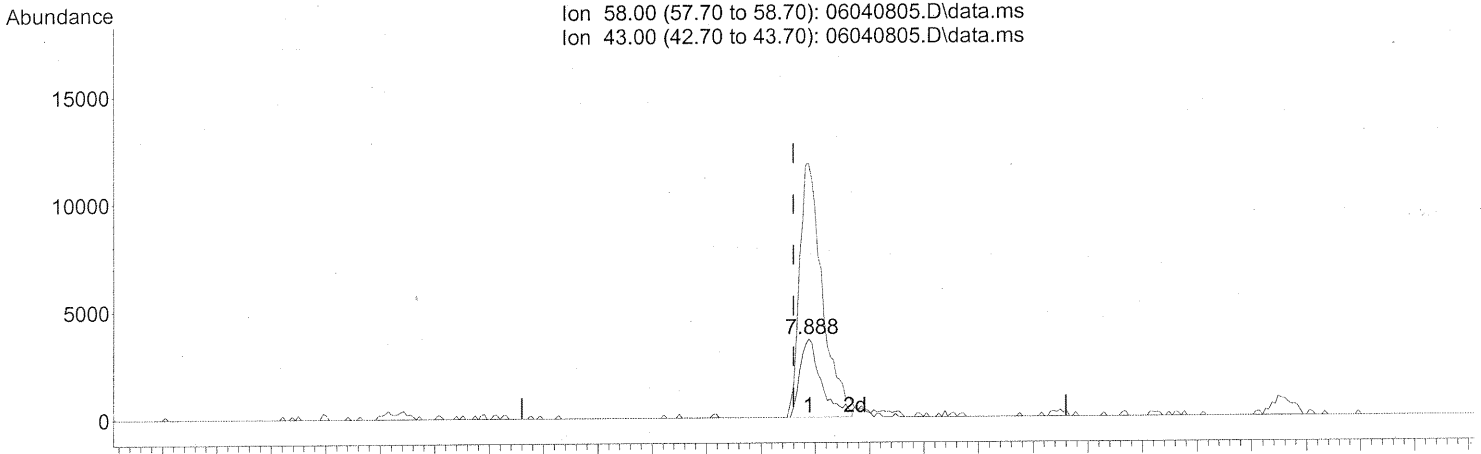
response 3009

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 30.01 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(13) Acetone (T)

7.888min (+0.028) 0.58ng

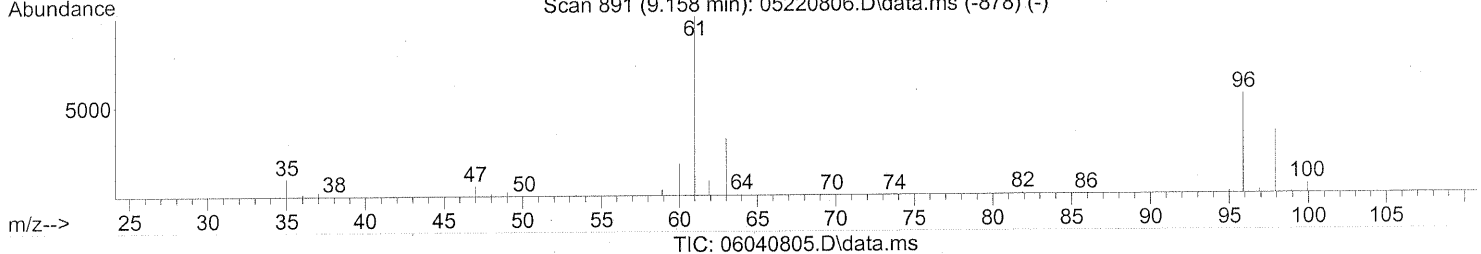
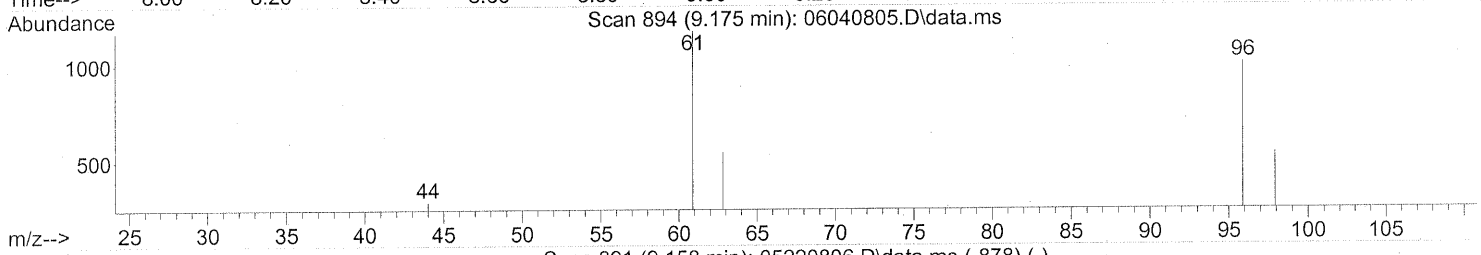
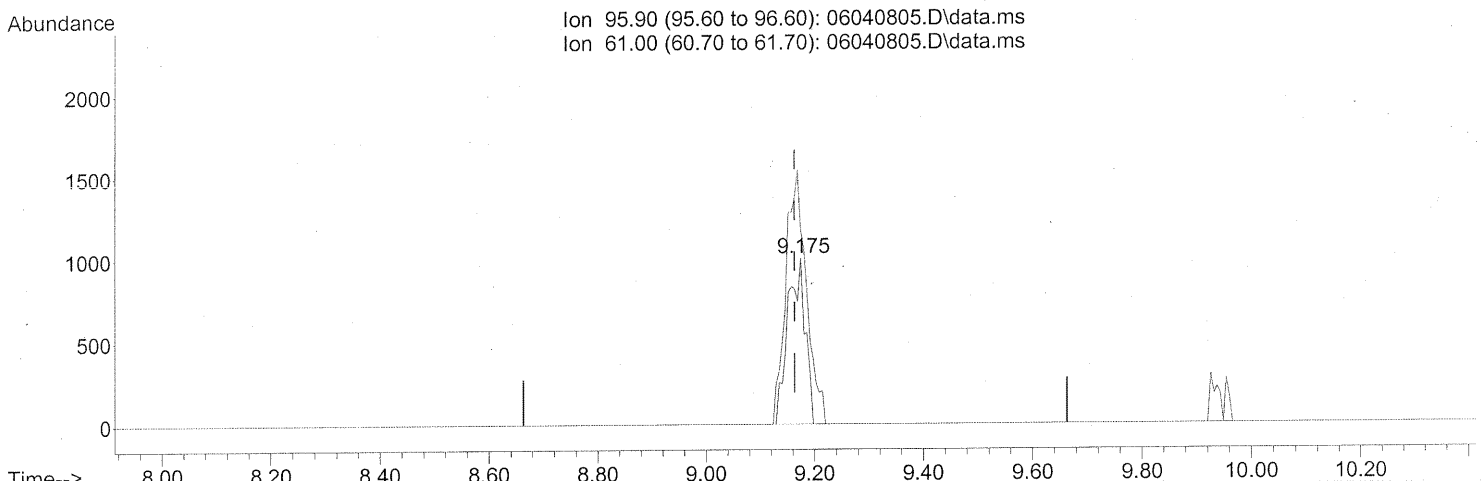
response 10125

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 360.37# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.175min (+0.011) 0.12ng

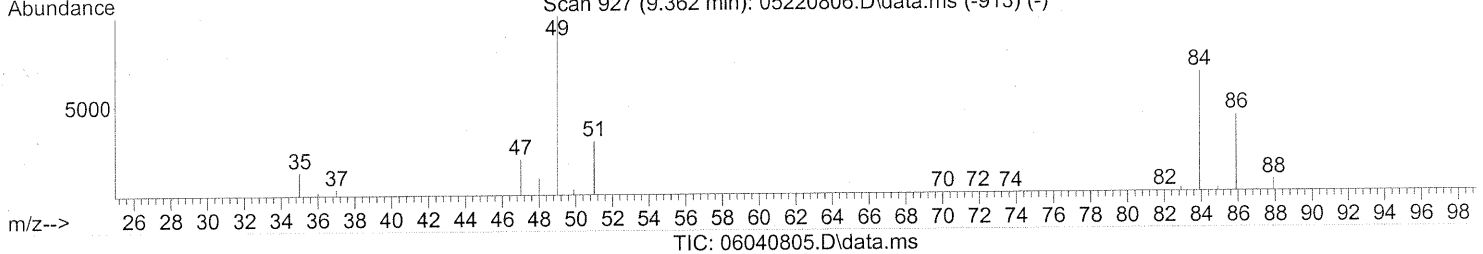
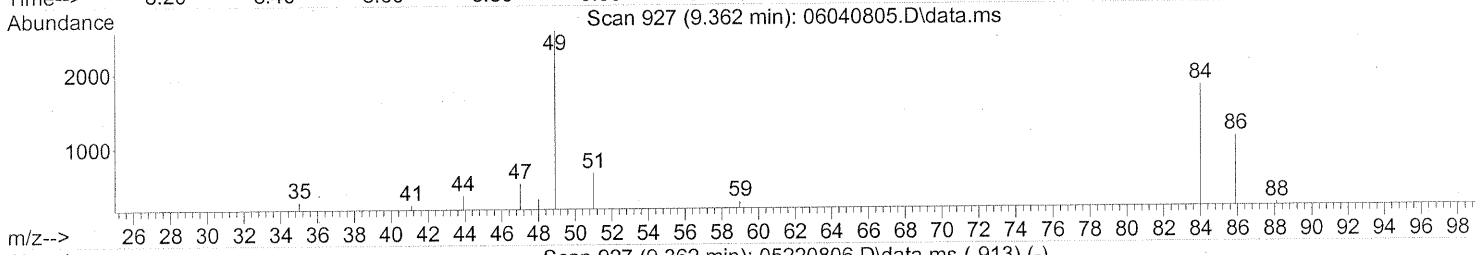
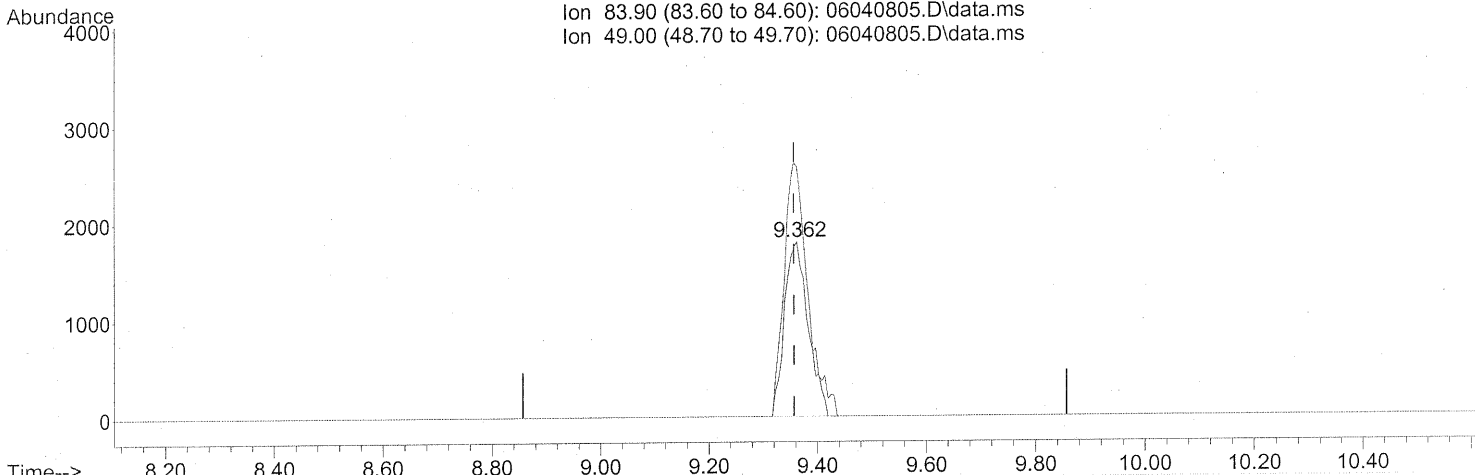
response 2226

| Ion | Exp% | Act% |
|-------|--------|---------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 181.72# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040805.D
Acq On : 4 Jun 2008 11:09 am
Operator : RTB
Sample : P0801483-002 (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.28ng

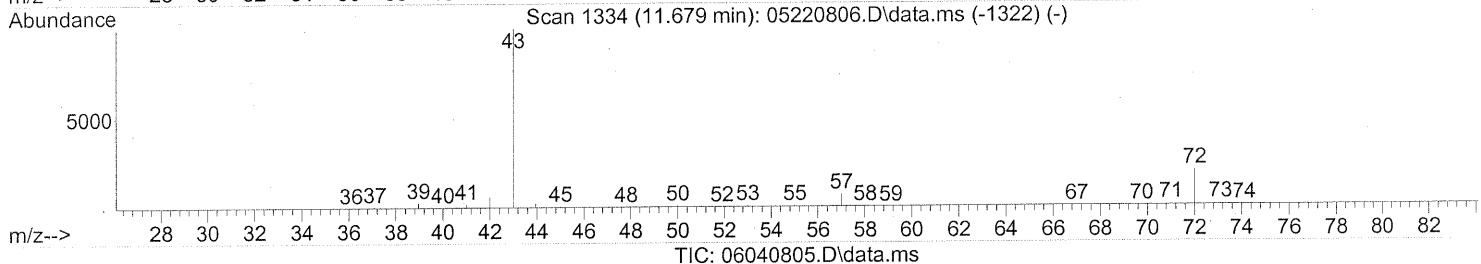
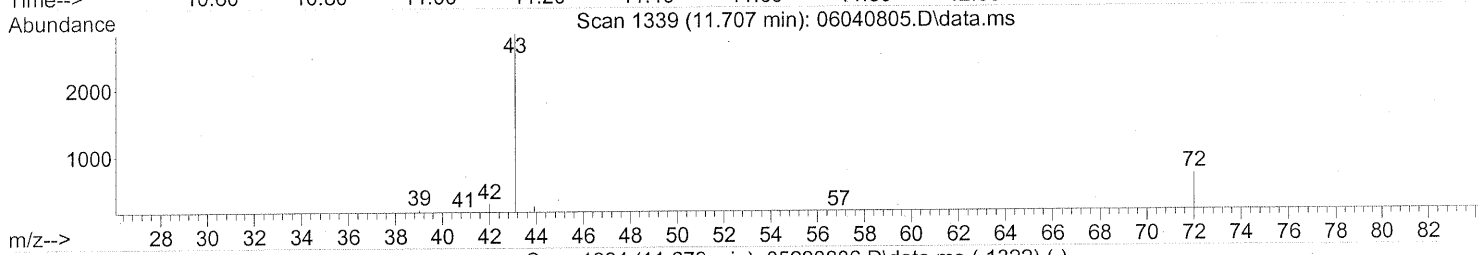
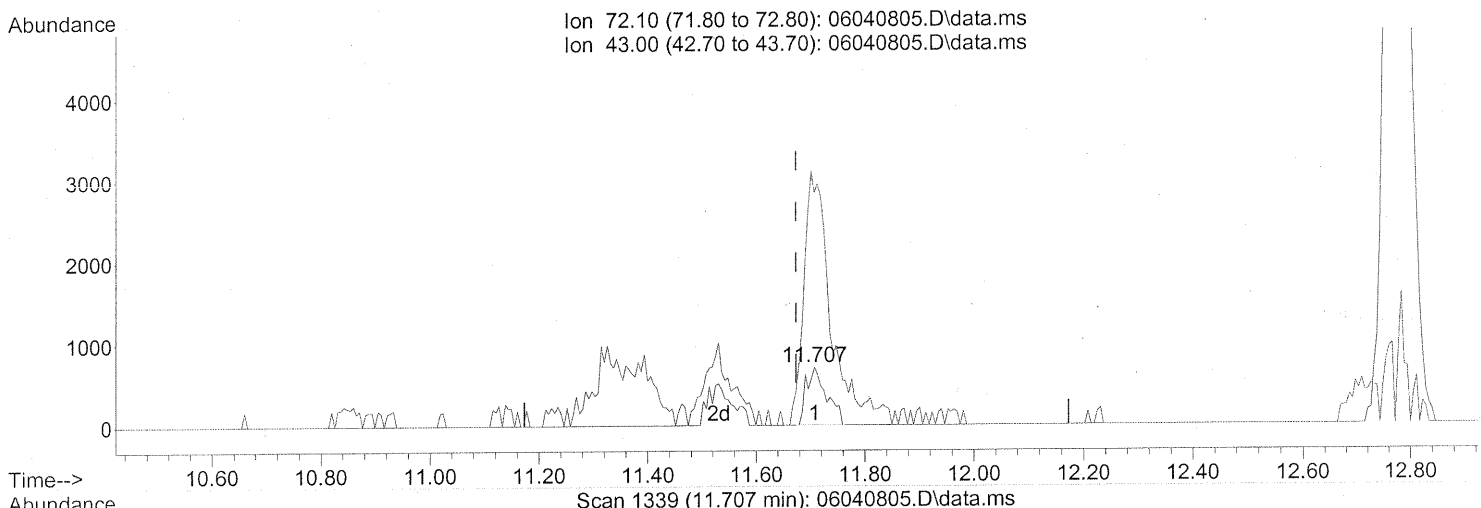
response 5391

| Ion | Exp% | Act% |
|-------|--------|---------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 146.50# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)
 11.707min (+0.034) 0.14ng
 response 1831

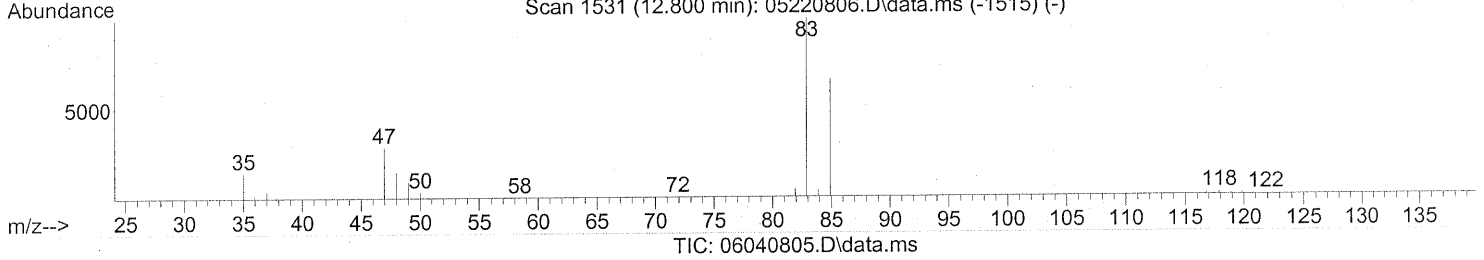
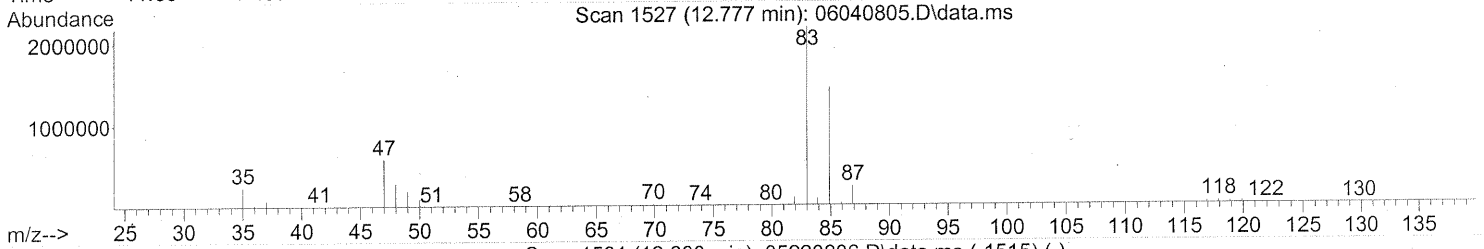
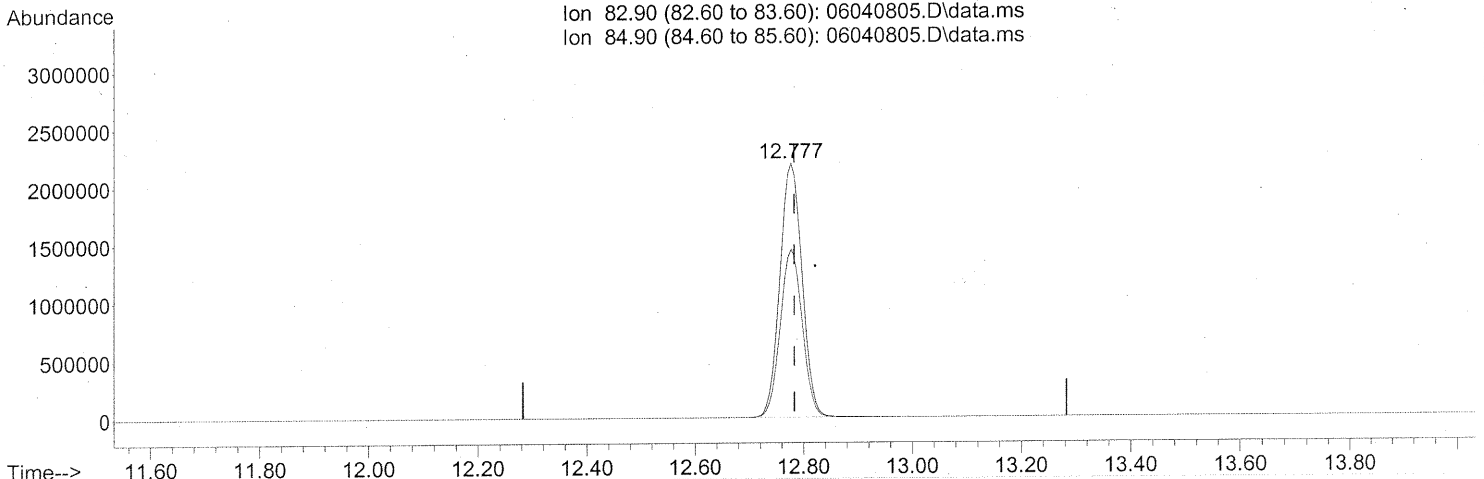
| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 556.85# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1866

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040805.D
Acq On : 4 Jun 2008 11:09 am
Operator : RTB
Sample : P0801483-002 (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



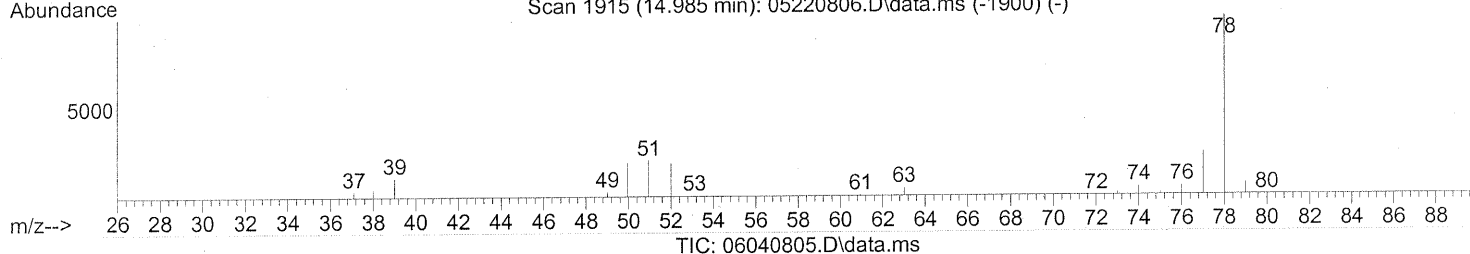
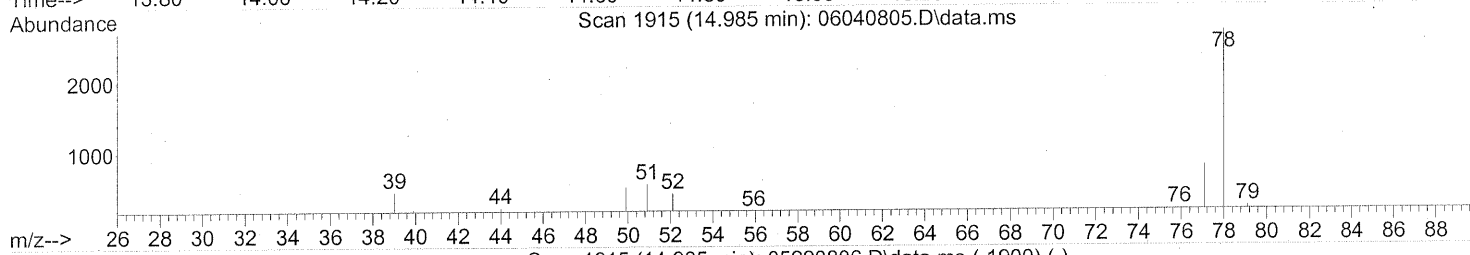
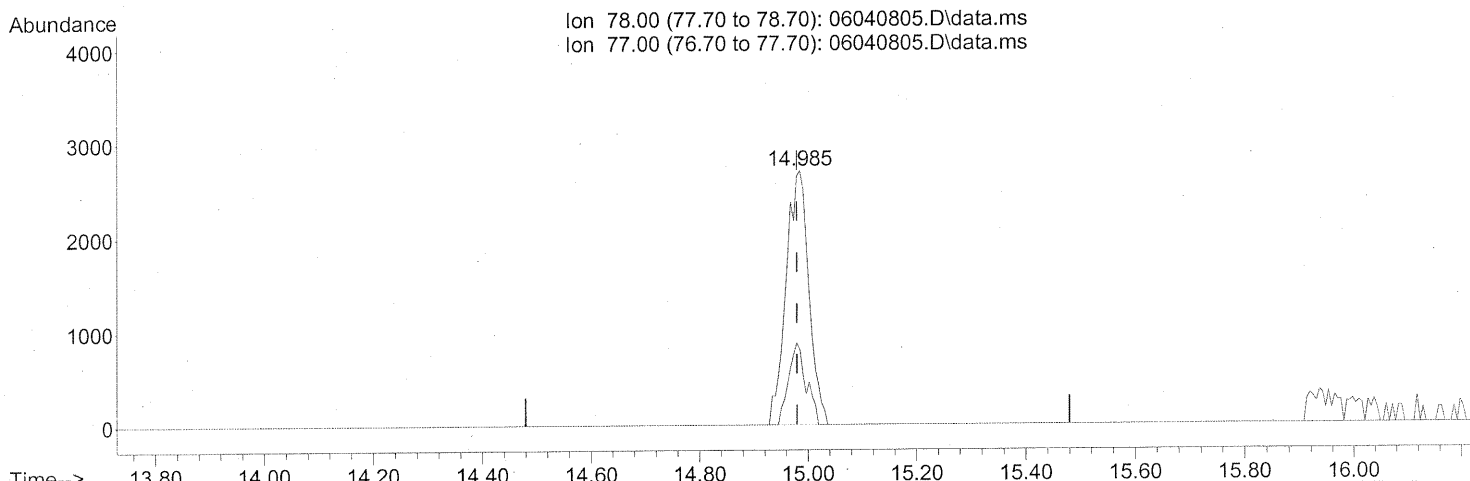
(32) Chloroform (T)
12.777min (-0.006) 208.97ng
response 6195061

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 65.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(41) Benzene (T)

14.985min (+0.006) 0.11ng

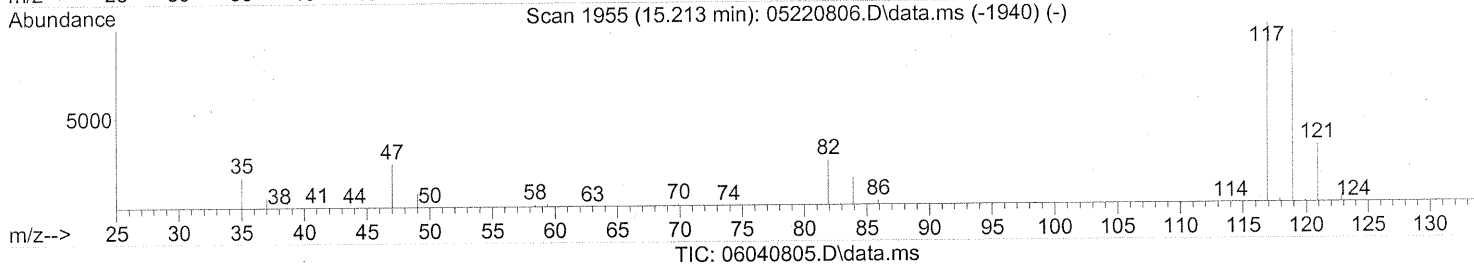
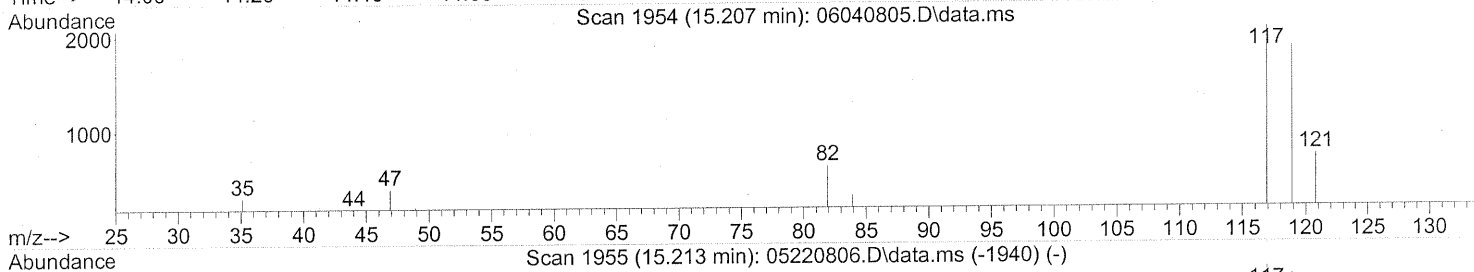
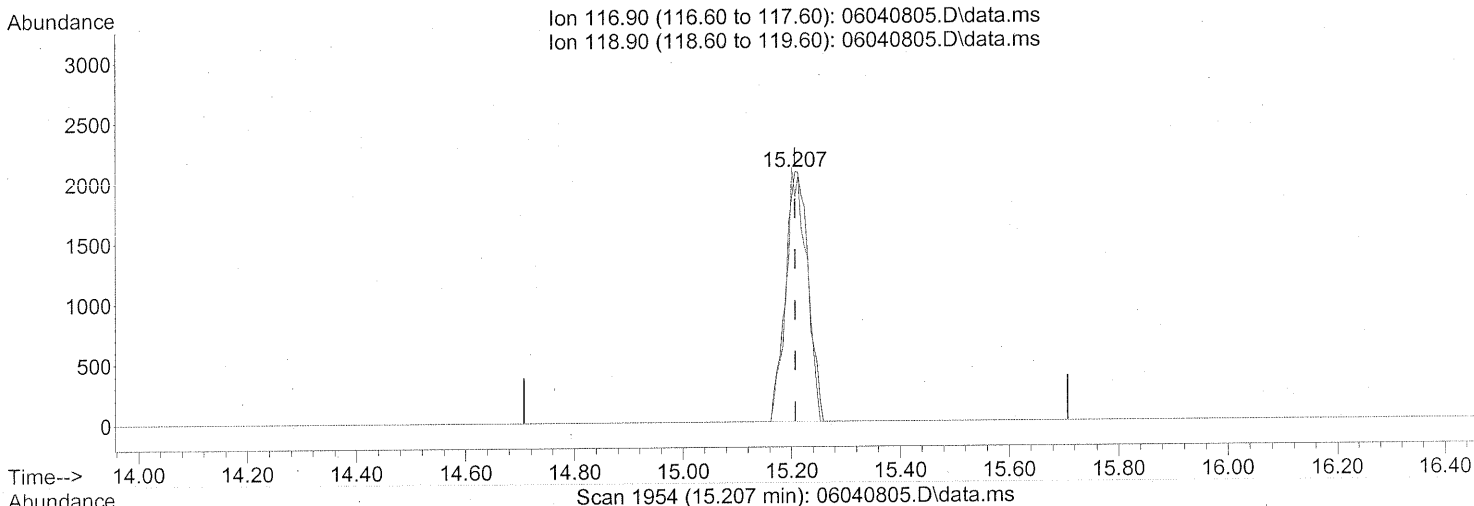
response 7867

| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 24.90 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (0.000) 0.21ng

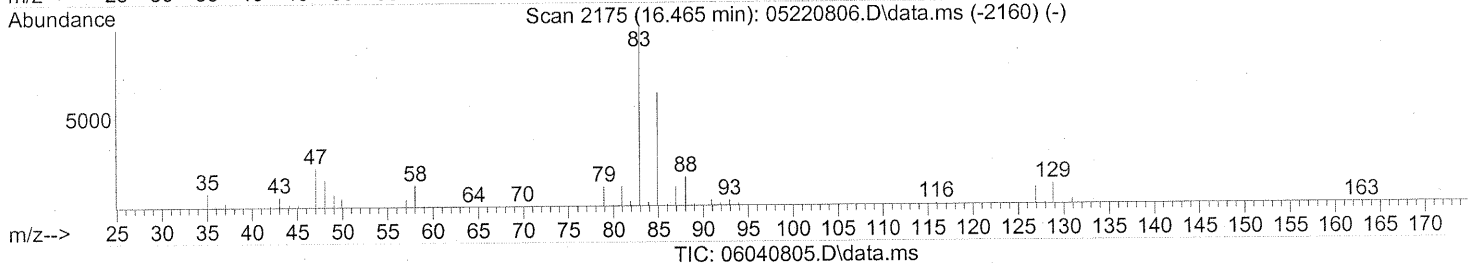
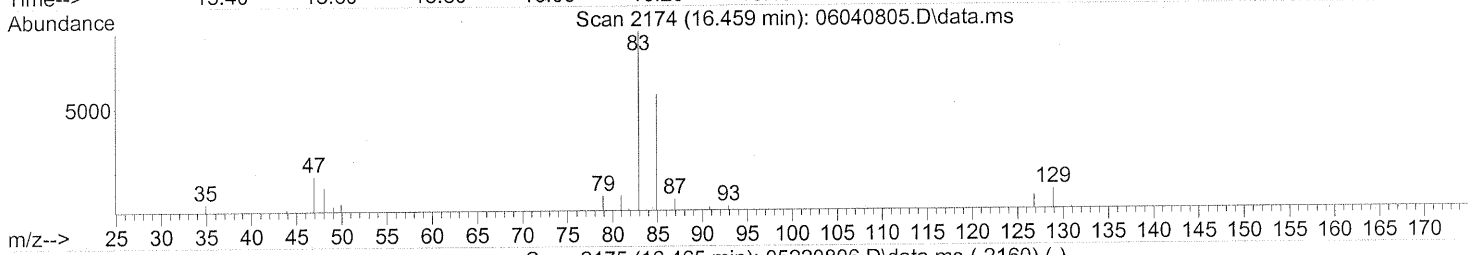
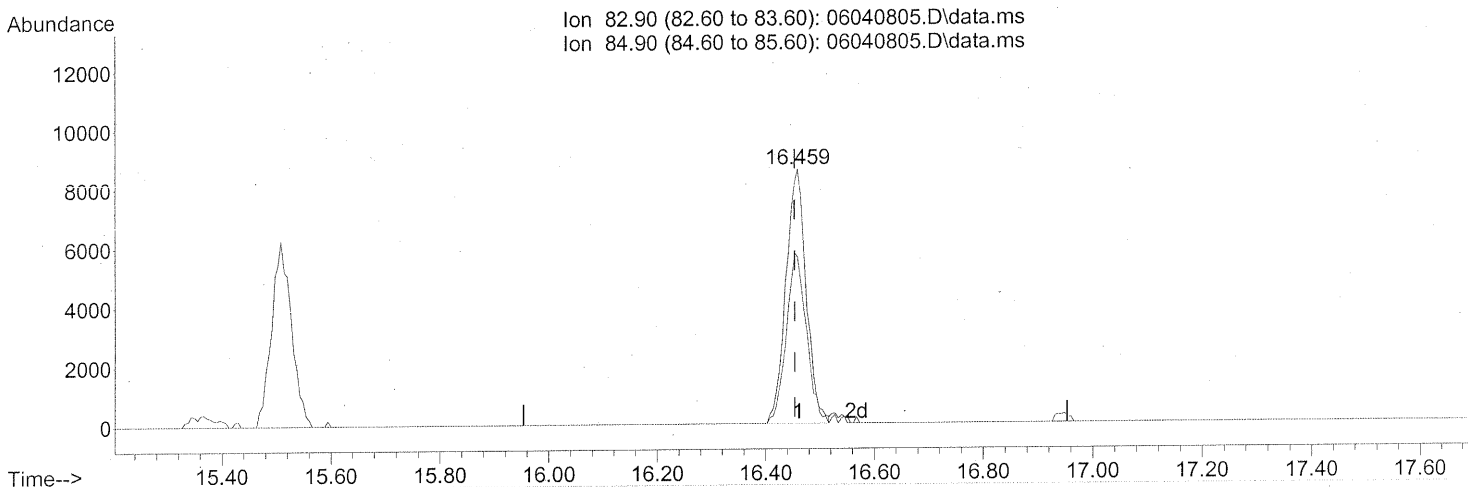
response 6075

| Ion | Exp% | Act% |
|--------|-------|-------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 91.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qeal)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.89ng

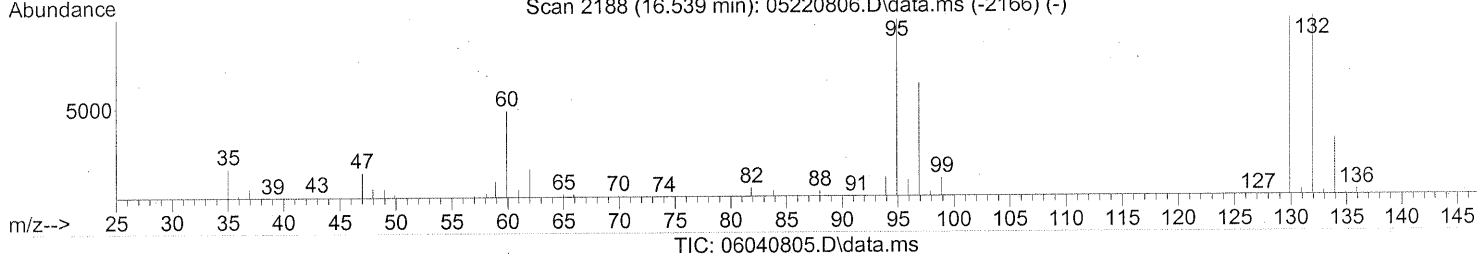
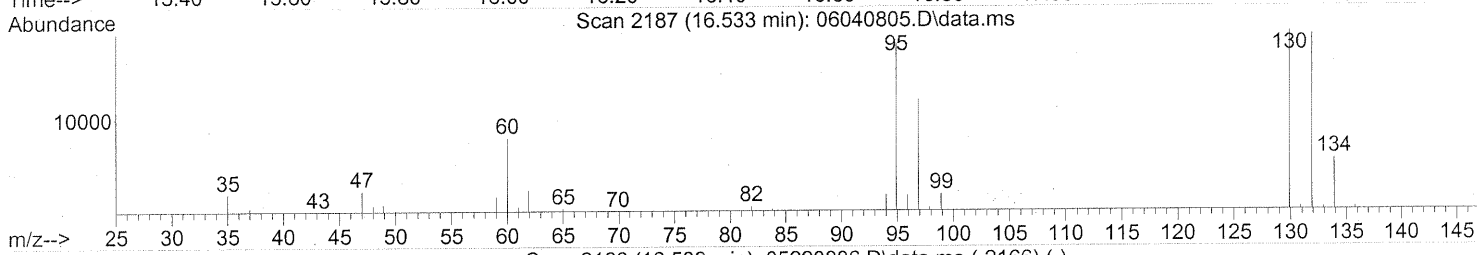
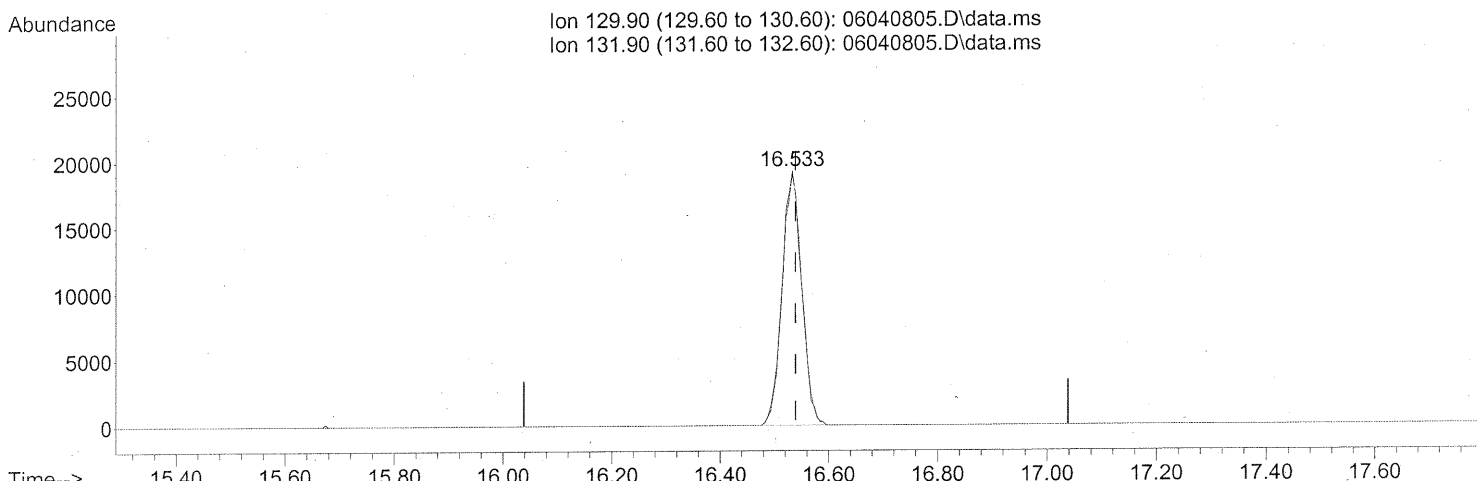
response 22242

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 66.15 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 2.11ng

response 47559

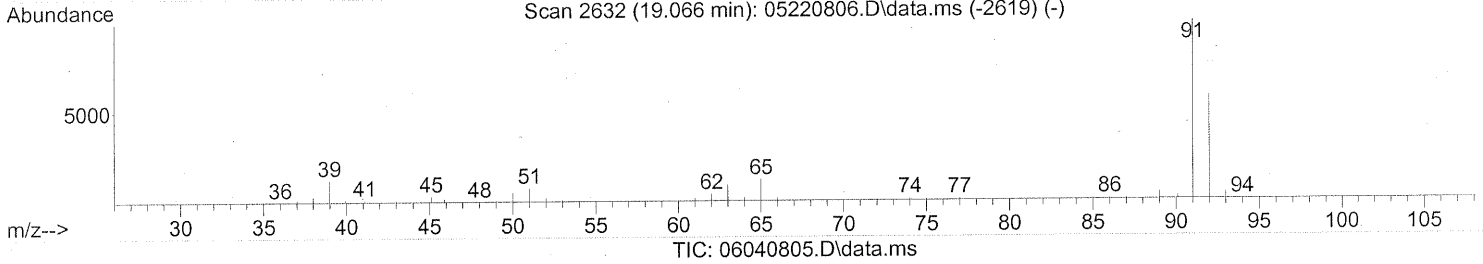
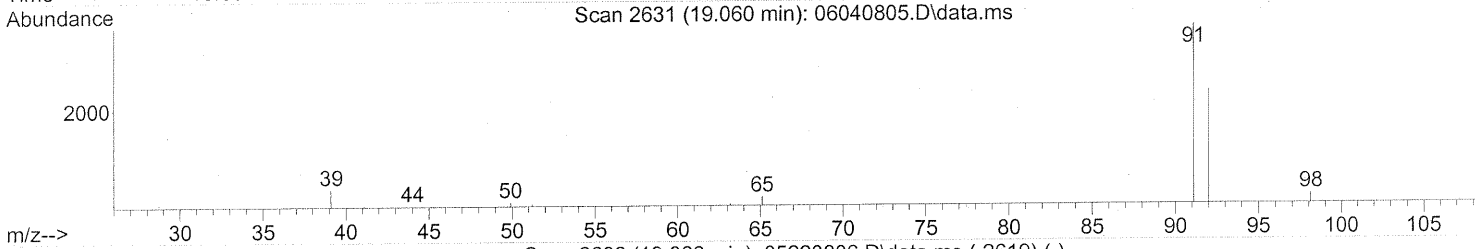
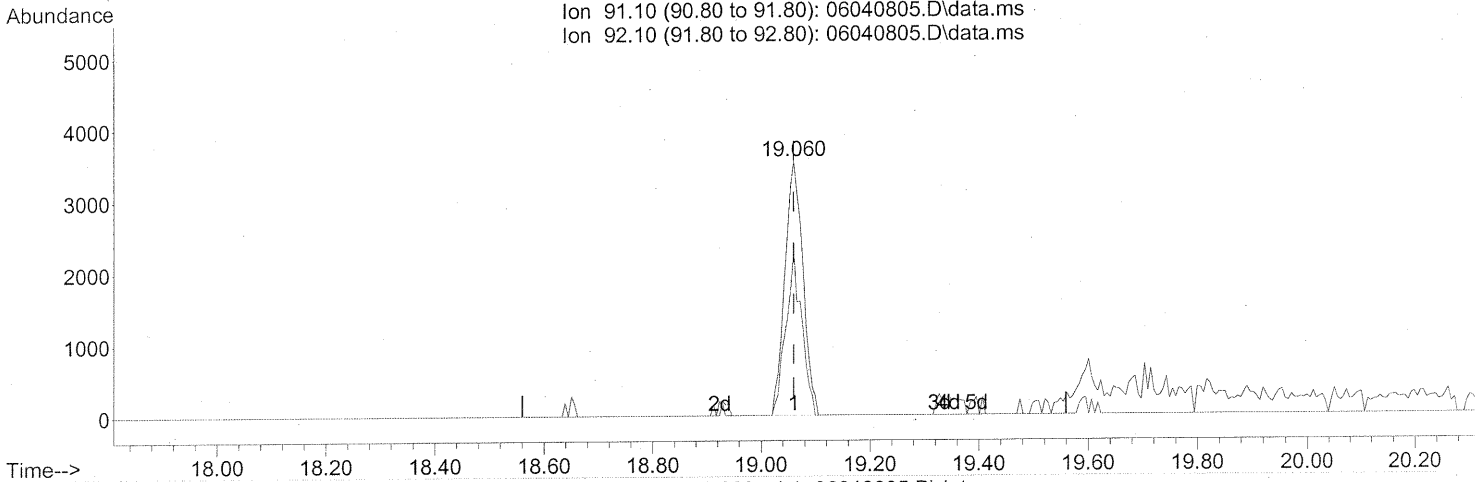
| Ion | Exp% | Act% |
|--------|--------|-------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 99.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

1871

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(58) Toluene (T)

19.060min (0.000) 0.10ng

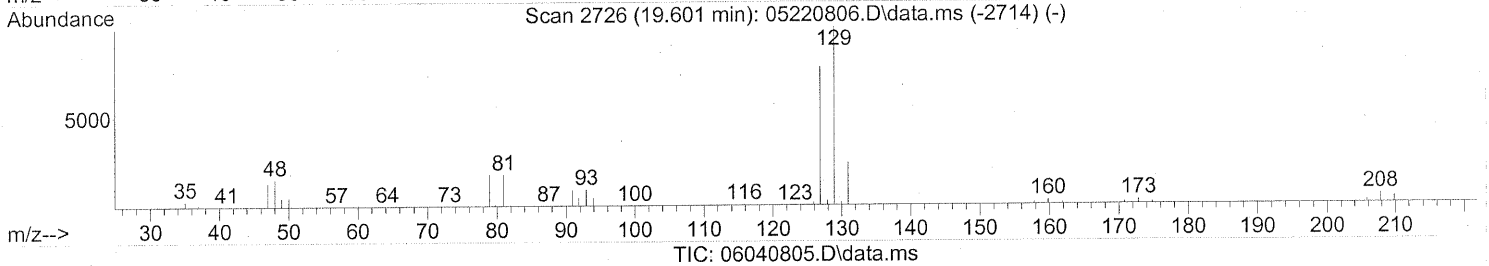
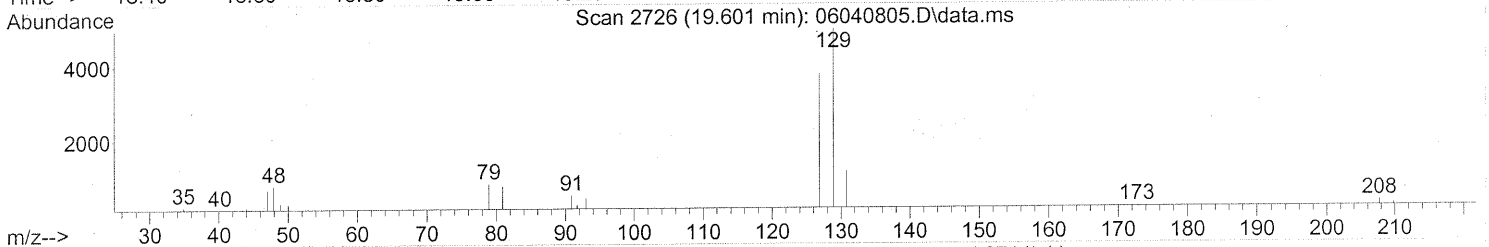
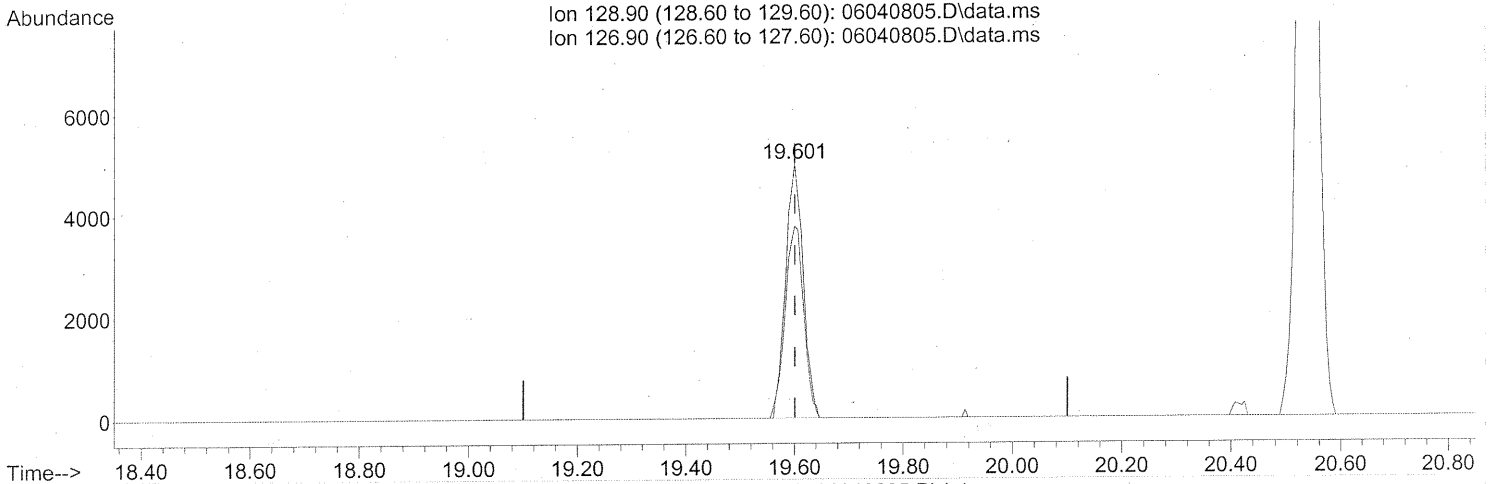
response 8080

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 57.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040805.D
Acq On : 4 Jun 2008 11:09 am
Operator : RTB
Sample : P0801483-002 (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.601min (-0.000) 0.51ng

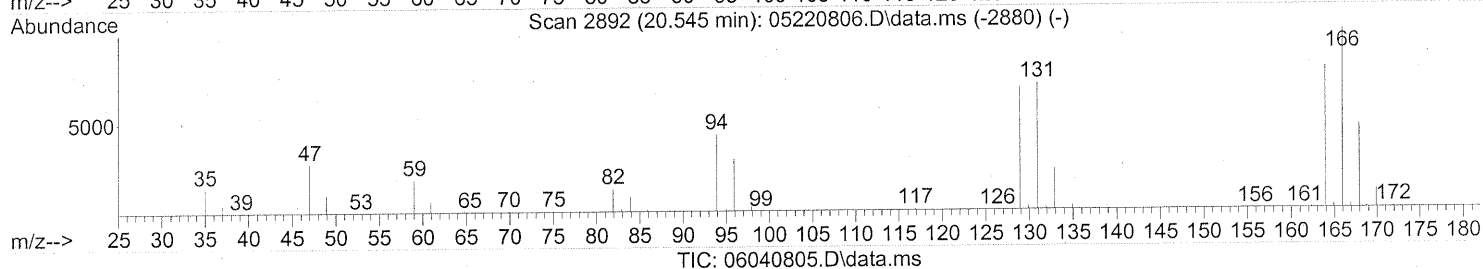
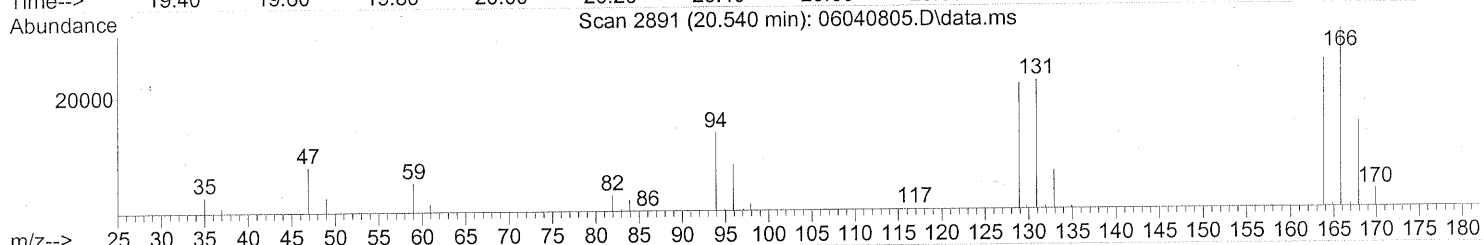
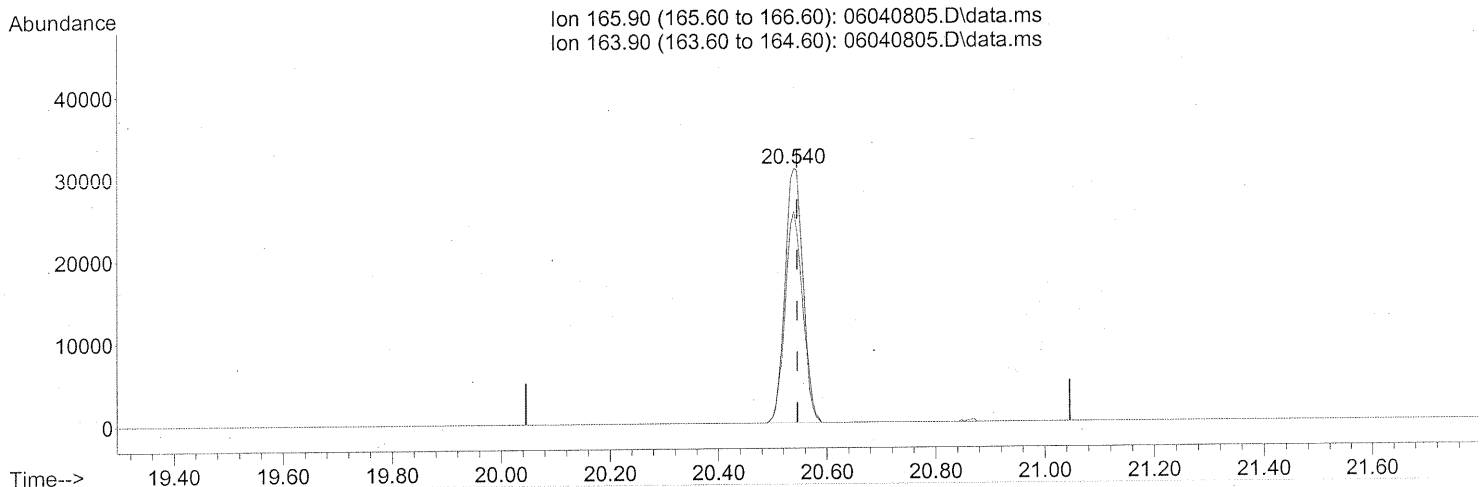
response 11236

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.90 | 100 | 100 |
| 126.90 | 76.90 | 79.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

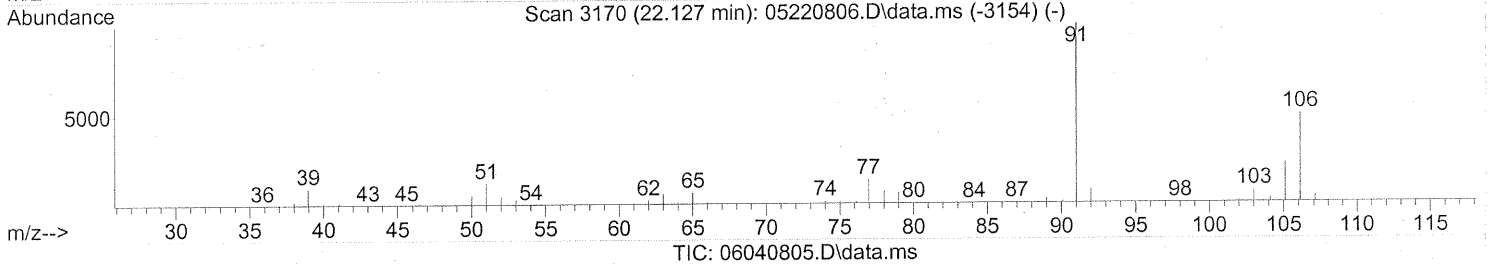
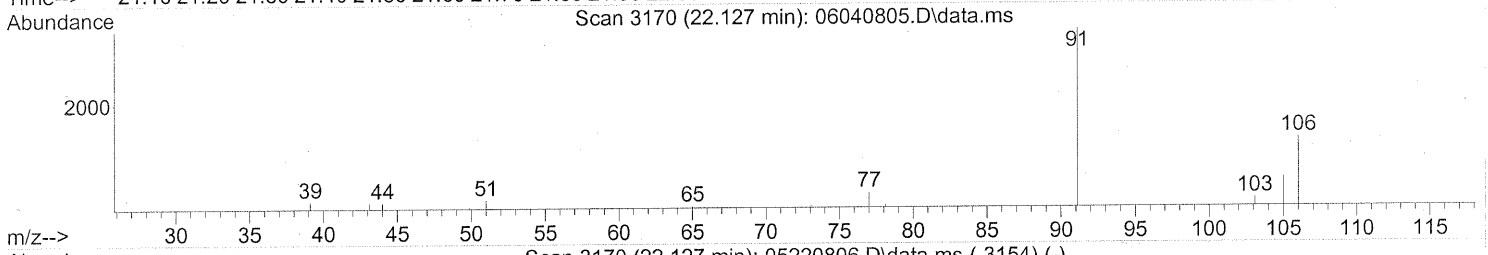
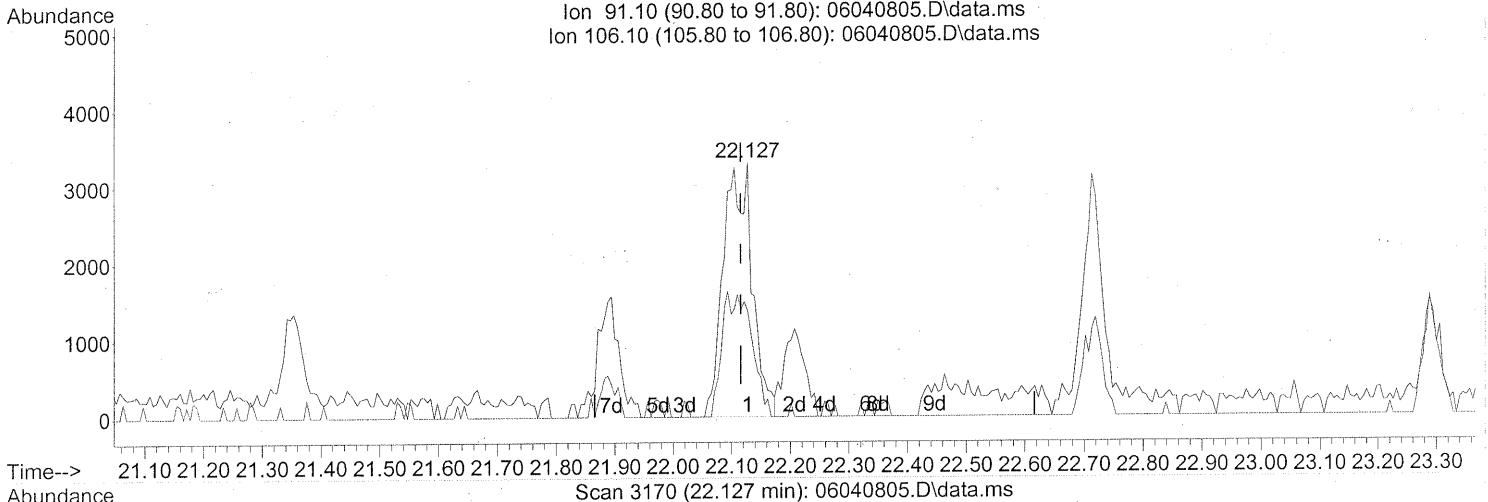
20.540min (-0.006) 2.95ng

response 71119

| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 80.24 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



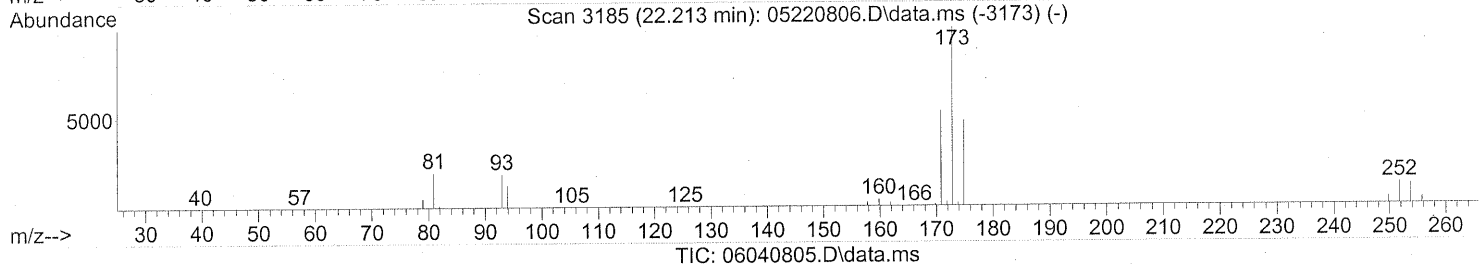
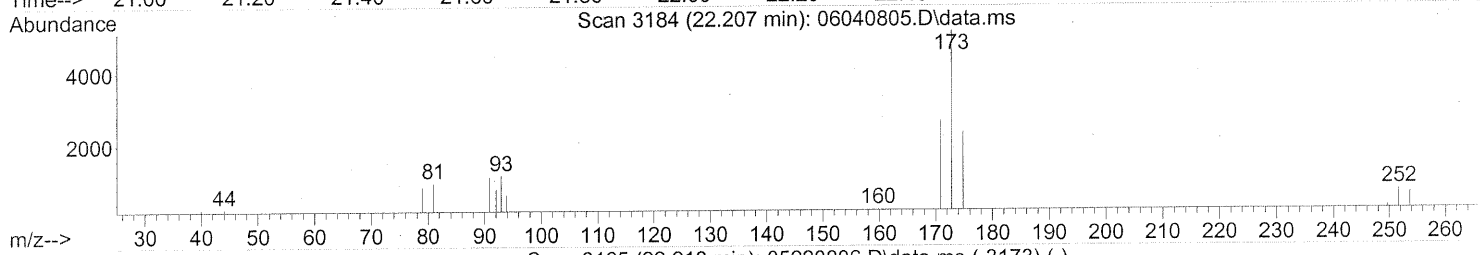
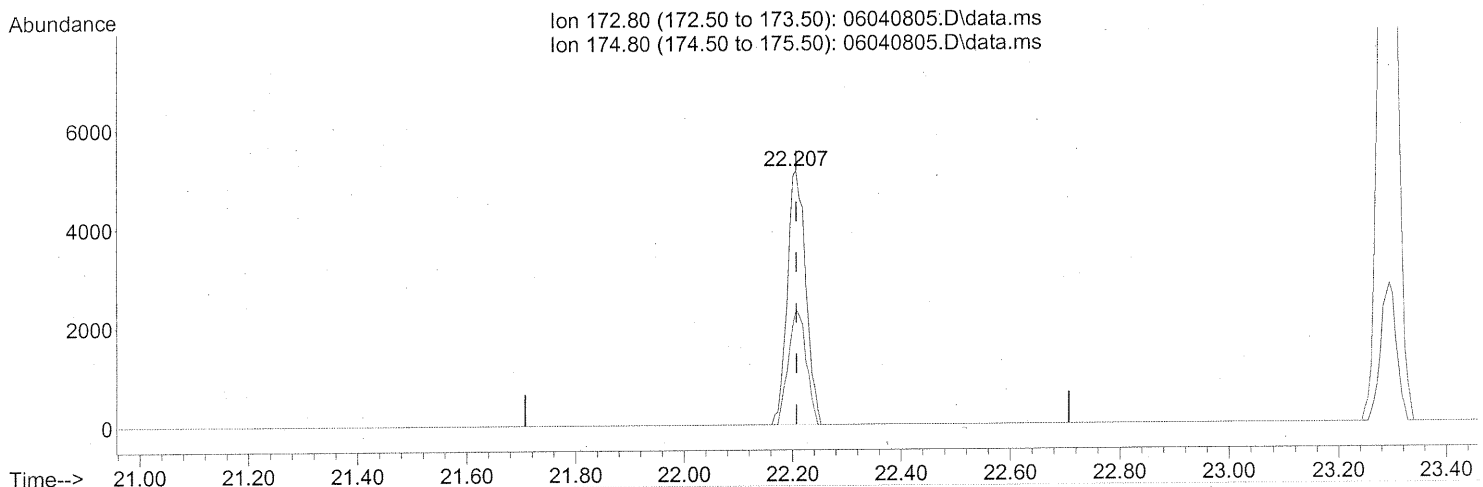
(67) m- & p-Xylene (T)
 22.127min (+0.011) 0.18ng
 response 11168

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(68) Bromoform (T)

22.207min (-0.000) 0.74ng

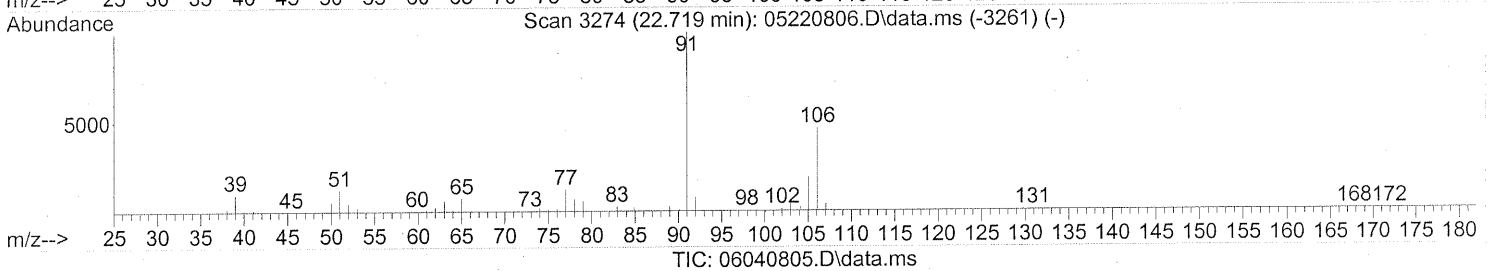
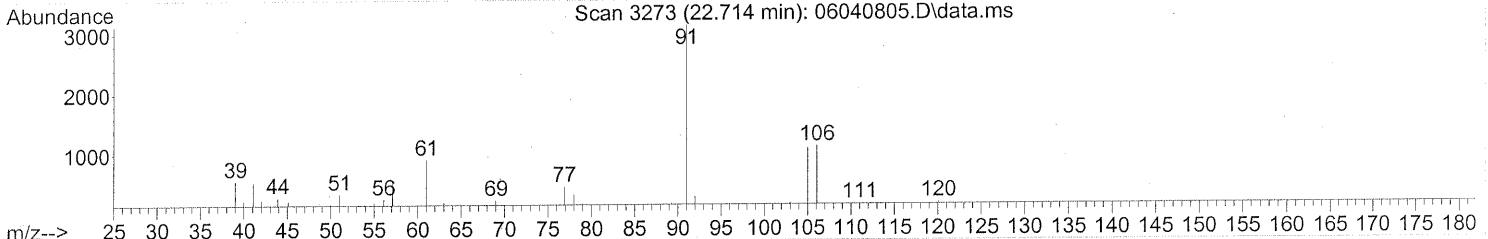
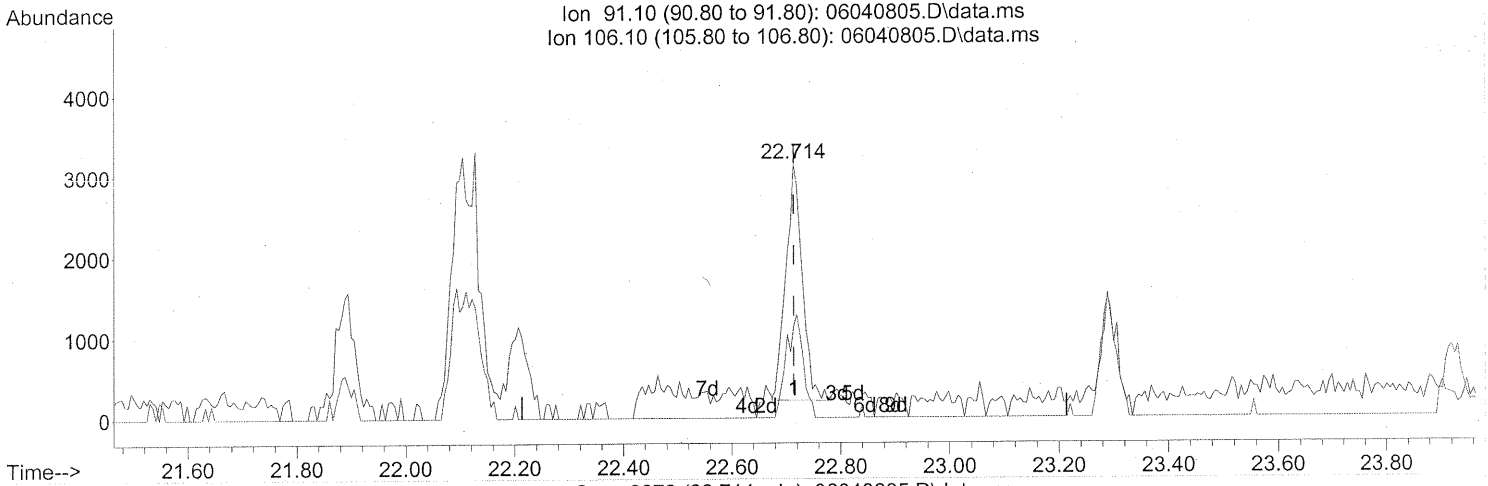
response 12113

| Ion | Exp% | Act% |
|--------|-------|-------|
| 172.80 | 100 | 100 |
| 174.80 | 49.40 | 43.73 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qealt)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 0.09ng

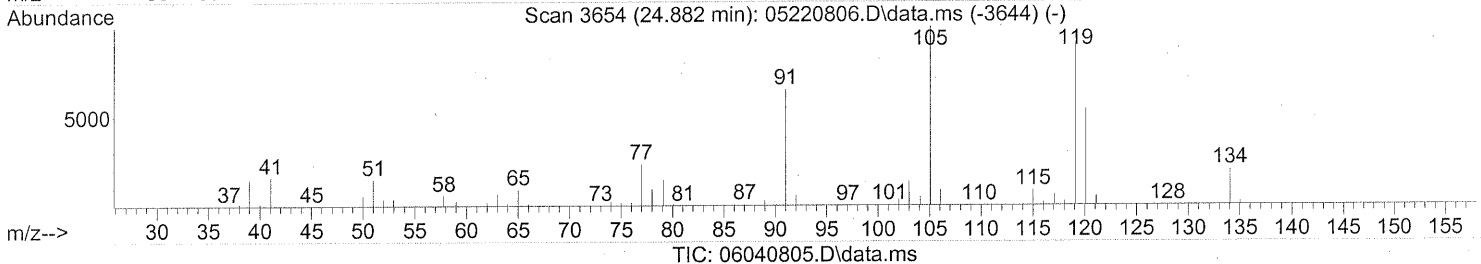
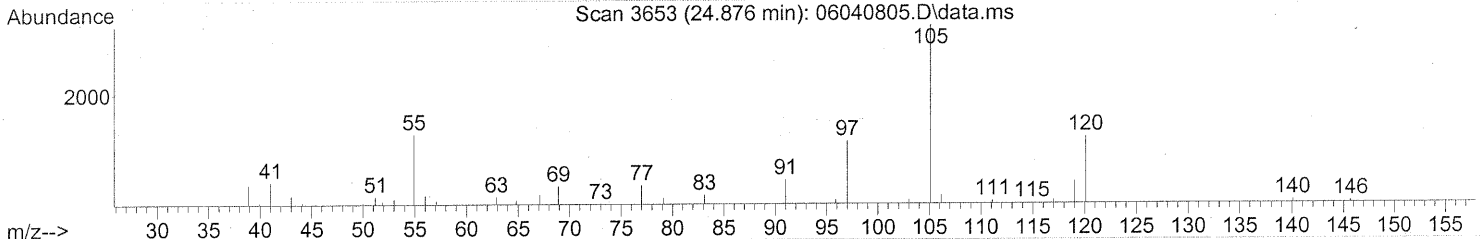
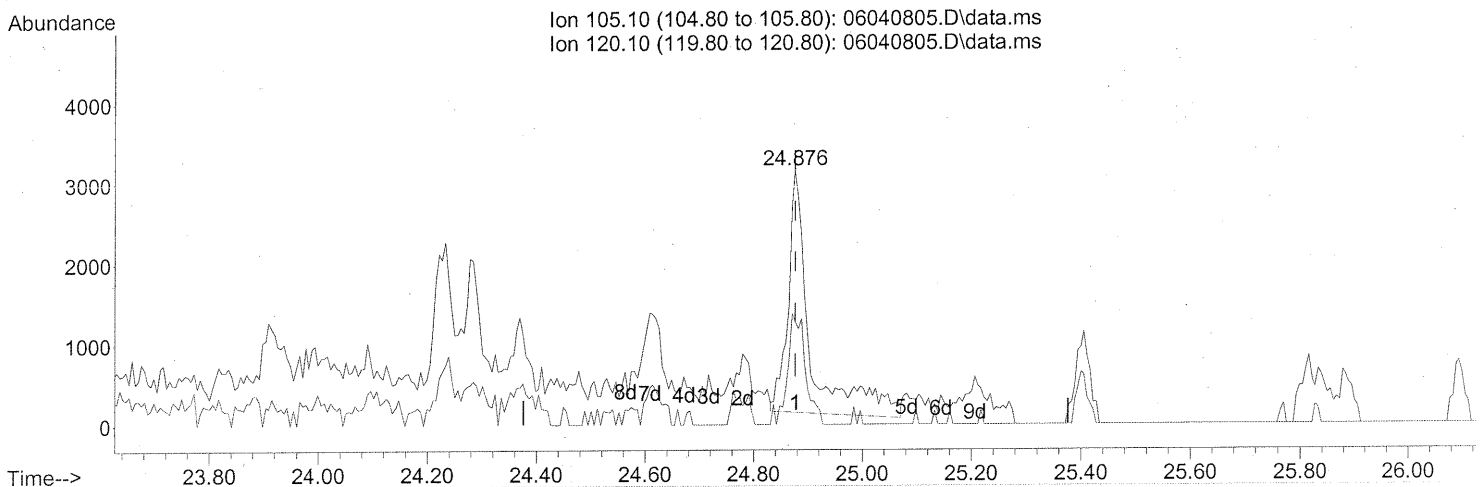
response 6116

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 44.18 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.876min (-0.000) 0.11ng

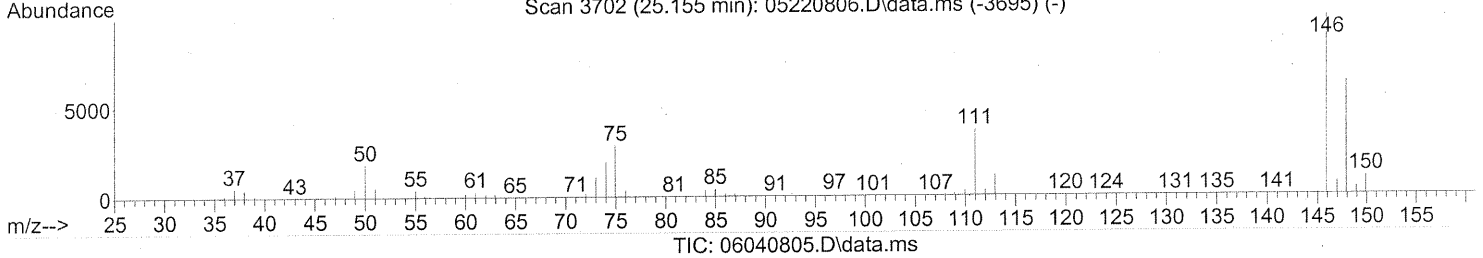
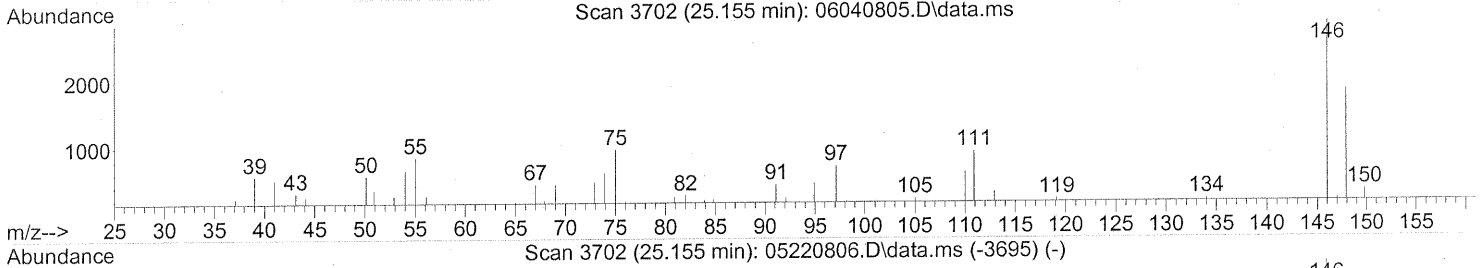
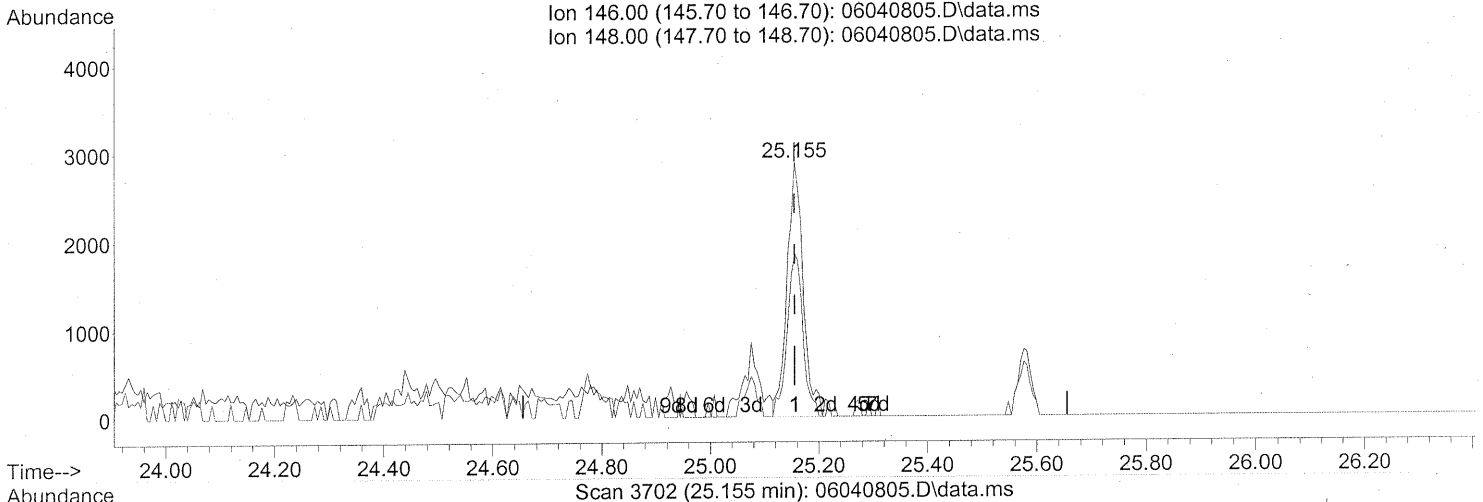
response 8656

| Ion | Exp% | Act% |
|--------|-------|-------|
| 105.10 | 100 | 100 |
| 120.10 | 54.40 | 35.63 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Quant)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (0.000) 0.12ng

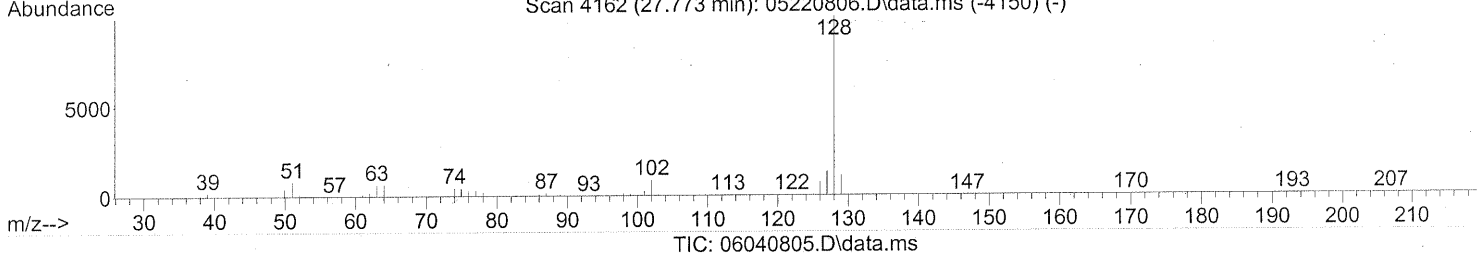
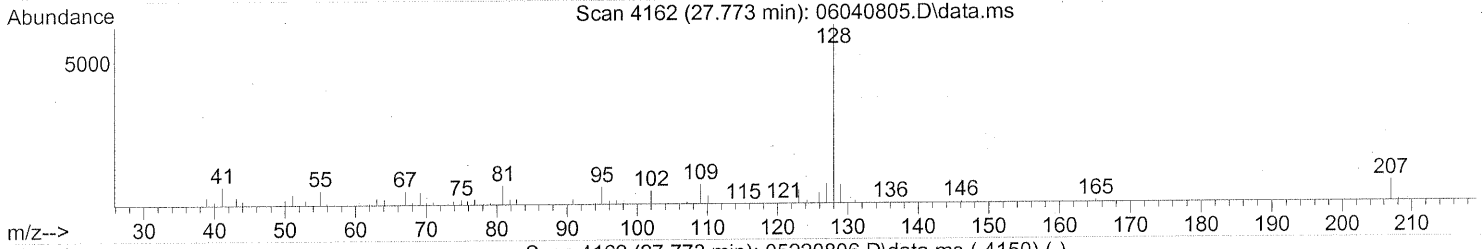
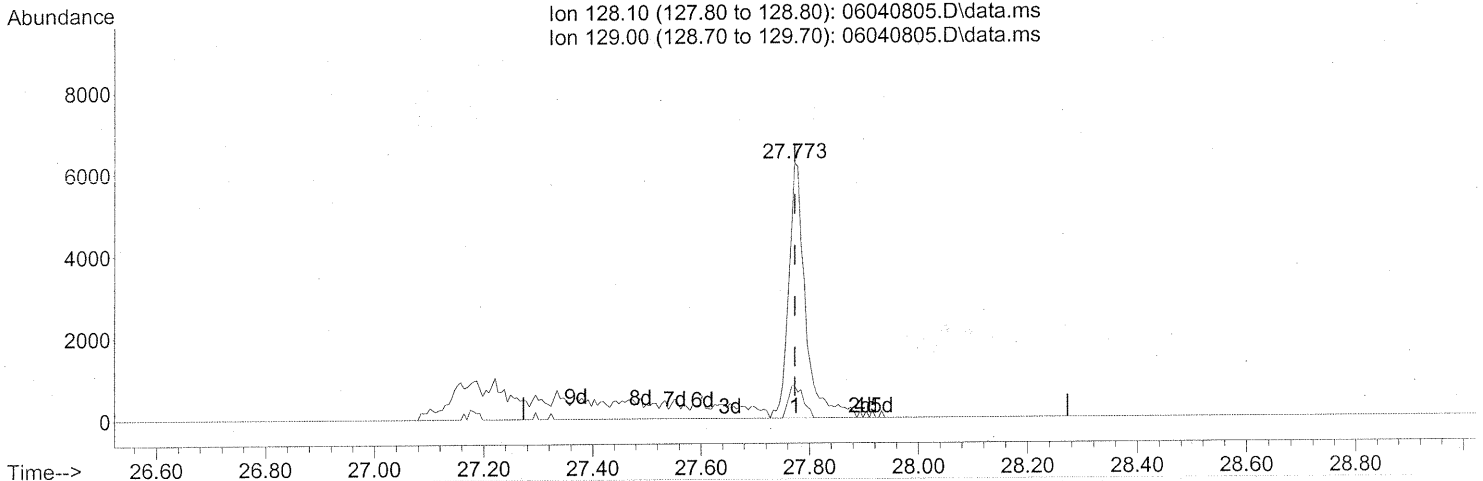
response 5852

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 63.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Quant)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 11:52:23 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

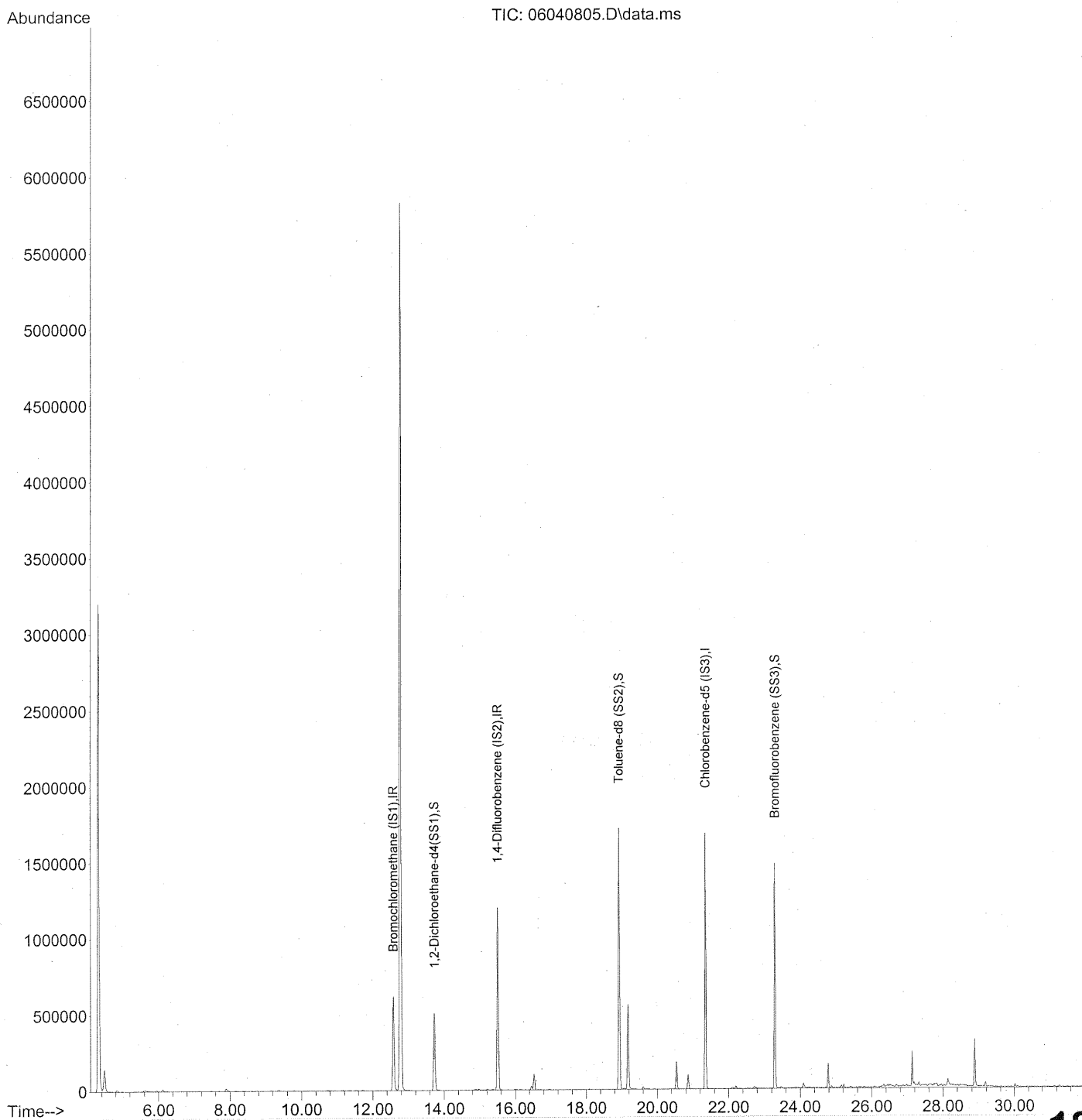


(95) Naphthalene (T)
 27.773min (-0.000) 0.12ng
 response 13378

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.10 | 100 | 100 |
| 129.00 | 11.60 | 11.24 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 13:41:16 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040805.D
 Acq On : 4 Jun 2008 11:09 am
 Operator : RTB
 Sample : P0801483-002 (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 13:41:16 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 325111 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1406017 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 667013 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 518337 | 23.010 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 92.04% | ✓ |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1462666 | 24.417 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 97.68% | ✓ |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 582153 | 23.898 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 95.60% | ✓ |
| Target Compounds | | | | | | |
| 7) tert-Butylbenzene | 25.12 | 119 | 218 | | N.D. | ✓ |
| 8) n-Butylbenzene | 25.91 | 91 | 2057 | | N.D. | ✓ |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

B. C. 04/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Rusty Bravo
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: SC00379

Date Collected: 5/15/08
 Date Received: 5/20/08
 Date Analyzed: 6/4/08
 Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|--|-------------------|-------|-------------------------|-------|------------------------------|-------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Dichlorodifluoromethane (CFC 12) | 1.95 | 0.394 | 1.88 | 0.381 | 1.915 | 4 | 25 | J |
| Chloromethane | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114) | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| Bromomethane | ND | ND | ND | ND | - | - | 25 | |
| Chloroethane | ND | ND | ND | ND | - | - | 25 | |
| Ethanol | 5.81 | 3.08 | 4.82 | 2.56 | 5.315 | 19 | 25 | J |
| Acetone | 19.1 | 8.05 | 19.8 | 8.35 | 19.45 | 4 | 25 | J, B |
| Trichlorofluoromethane | ND | ND | ND | ND | - | - | 25 | |
| Acrylonitrile | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethene | 4.13 | 1.04 | 4.06 | 1.02 | 4.095 | 2 | 25 | |
| 2-Methyl-2-Propanol (tert-Butyl Alcohol) | ND | ND | ND | ND | - | - | 25 | |
| Methylene Chloride | 9.11 | 2.62 | 9.08 | 2.61 | 9.095 | 0.3 | 25 | J |
| 3-Chloro-1-propene (Allyl Chloride) | ND | ND | ND | ND | - | - | 25 | |
| Trichlorotrifluoroethane | ND | ND | ND | ND | - | - | 25 | |
| Carbon Disulfide | ND | ND | ND | ND | - | - | 25 | |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| 1,1-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Methyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Vinyl Acetate | ND | ND | ND | ND | - | - | 25 | |
| 2-Butanone (MEK) | 4.72 | 1.60 | 4.19 | 1.42 | 4.455 | 12 | 25 | J |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | - | - | 25 | |
| Diisopropyl Ether | ND | ND | ND | ND | - | - | 25 | |
| Chloroform | 6,900 | 1,410 | 6,900 | 1,410 | 6900 | 0 | 25 | E |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

E = Estimated; result based on response which exceeded the instrument calibration range.

Verified By: CA Date: 6/4/08 **1883**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 6/4/08
Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.7

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-----------------------------|-------------------|-------|-------------------------|-------|------------------------------|------------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Ethyl tert-Butyl Ether | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloroethane | ND | ND | ND | ND | - | - | 25 | |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Benzene | 3.53 | 1.11 | 3.56 | 1.12 | 3.545 | 0.8 | 25 | |
| Carbon Tetrachloride | 7.06 | 1.12 | 6.63 | 1.05 | 6.845 | 6 | 25 | |
| tert-Amyl Methyl Ether | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichloropropane | ND | ND | ND | ND | - | - | 25 | |
| Bromodichloromethane | 29.5 | 4.41 | 30.5 | 4.55 | 30 | 3 | 25 | |
| Trichloroethene | 69.5 | 12.9 | 67.4 | 12.5 | 68.45 | 3 | 25 | |
| 1,4-Dioxane | ND | ND | ND | ND | - | - | 25 | |
| Methyl Methacrylate | ND | ND | ND | ND | - | - | 25 | |
| n-Heptane | ND | ND | ND | ND | - | - | 25 | |
| cis-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 4-Methyl-2-pentanone | ND | ND | ND | ND | - | - | 25 | |
| trans-1,3-Dichloropropene | ND | ND | ND | ND | - | - | 25 | |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | - | - | 25 | |
| Toluene | 3.27 | 0.867 | 3.17 | 0.841 | 3.22 | 3 | 25 | J |
| 2-Hexanone | ND | ND | ND | ND | - | - | 25 | |
| Dibromochloromethane | 16.9 | 1.98 | 16.7 | 1.96 | 16.8 | 1 | 25 | |
| 1,2-Dibromoethane | ND | ND | ND | ND | - | - | 25 | |
| n-Octane | ND | ND | ND | ND | - | - | 25 | |
| Tetrachloroethene | 97.4 | 14.4 | 95.1 | 14.0 | 96.25 | 2 | 25 | |
| Chlorobenzene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:

Date: 6/4/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: ENSR
Client Sample ID: SG78B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801483
 CAS Sample ID: P0801483-002DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Rusty Bravo
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00379

Date Collected: 5/15/08
Date Received: 5/20/08
Date Analyzed: 6/4/08
Volume(s) Analyzed: 0.050 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

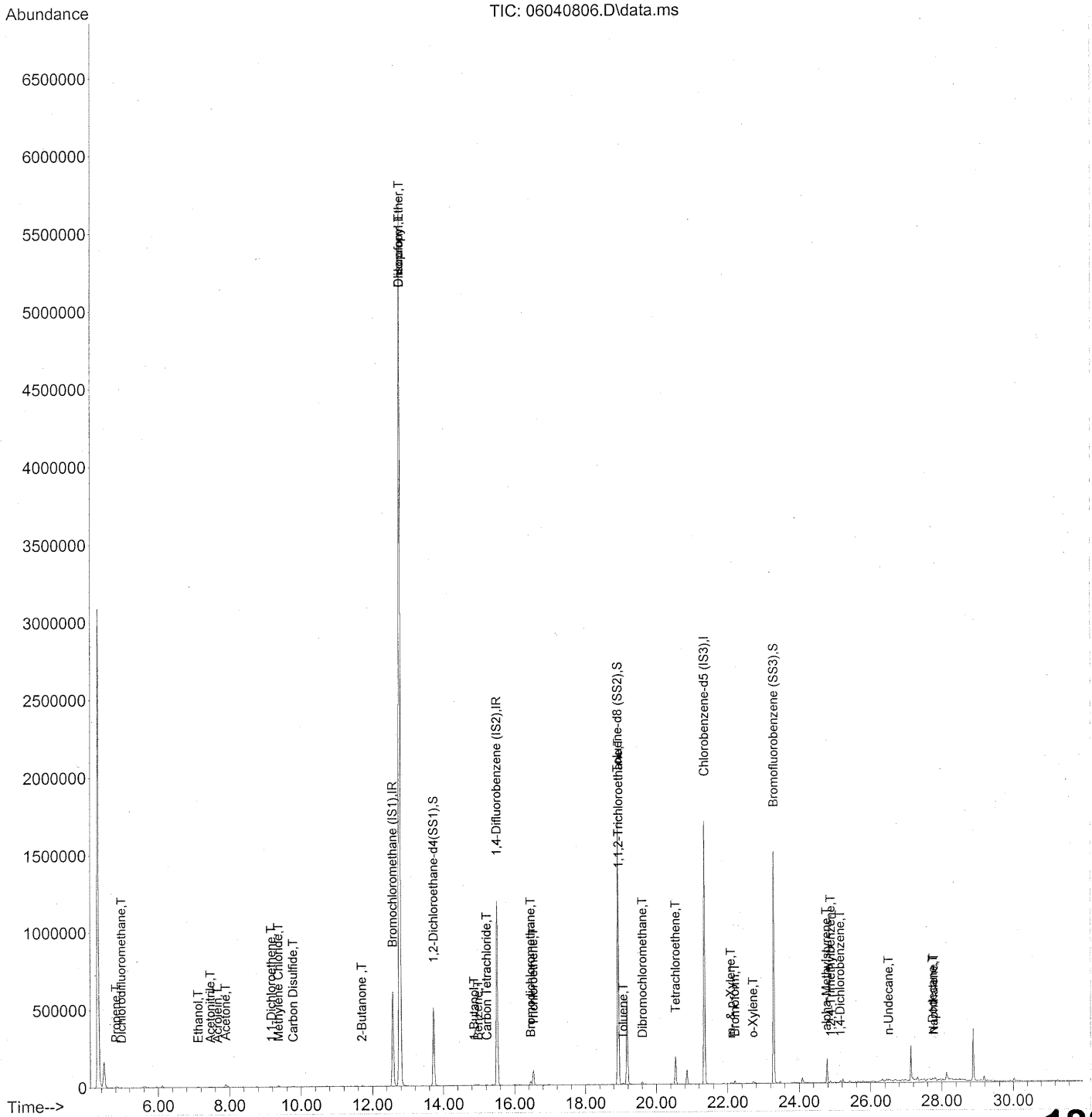
| Compound | Sample Result | | Duplicate Sample Result | | Average µg/m ³ | % RPD | RPD Limit | Data Qualifier |
|-------------------------------|-------------------|-------|-------------------------|-------|------------------------------|-----------|--------------|-------------------|
| | µg/m ³ | ppbV | µg/m ³ | ppbV | | | | |
| Ethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| m,p-Xylenes | 5.91 | 1.36 | 5.38 | 1.24 | 5.645 | 9 | 25 | J |
| Bromoform | 24.4 | 2.36 | 23.2 | 2.24 | 23.8 | 5 | 25 | |
| Styrene | ND | ND | ND | ND | - | - | 25 | |
| o-Xylene | 3.00 | 0.692 | 2.90 | 0.669 | 2.95 | 3 | 25 | J |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | - | - | 25 | |
| Cumene | ND | ND | ND | ND | - | - | 25 | |
| n-Propylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Ethyltoluene | ND | ND | ND | ND | - | - | 25 | |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | - | - | 25 | |
| alpha-Methylstyrene | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trimethylbenzene | 3.50 | 0.712 | ND | ND | - | - | 25 | J |
| Benzyl Chloride | ND | ND | ND | ND | - | - | 25 | |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,4-Dichlorobenzene | 3.89 | 0.648 | 3.17 | 0.527 | 3.53 | 20 | 25 | J |
| sec-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |
| 4-Isopropyltoluene (p-Cymene) | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | - | - | 25 | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | - | - | 25 | |
| Naphthalene | 4.09 | 0.781 | ND | ND | - | - | 25 | J |
| Hexachlorobutadiene | ND | ND | ND | ND | - | - | 25 | |
| tert-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |
| n-Butylbenzene | ND | ND | ND | ND | - | - | 25 | |

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
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 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 322340 | 25.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1400861 | 25.000 | ng | 0.00 |
| 56) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 670342 | 25.000 | ng | 0.00 |

| System Monitoring Compounds | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------------|--------|----------|
| 33) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 519411 | 23.256 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | 93.04% | ✓ |
| 57) Toluene-d8 (SS2) | 18.92 | 98 | 1455953 | 24.184 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | 96.72% | ✓ |
| 73) Bromofluorobenzene (SS3) | 23.29 | 174 | 585102 | 23.900 | ng | 0.00 |
| Spiked Amount | | | | 25.000 | | |
| | | | | Recovery = | 95.60% | ✓ |

| Target Compounds | R.T. | QIon | Response | Conc | Units | Qvalue |
|------------------------------|-------|------|----------|-------------------|-------|--------|
| 2) Propene | 4.82 | 42 | 4013 | 0.158 | ng | # 60 |
| 3) Dichlorodifluoromethane | 4.97 | 85 | 2668 | 0.057 | ng | # 92 |
| 4) Chloromethane | 5.30 | 50 | 580 | N.D. | ✓ | |
| 5) Freon 114 | 0.00 | 135 | 0 | N.D. | ✓ | |
| 6) Vinyl Chloride | 0.00 | 62 | 0 | N.D. | ✓ | |
| 7) 1,3-Butadiene | 0.00 | 54 | 0 | N.D. | | |
| 8) Bromomethane | 0.00 | 94 | 0 | N.D. | ✓ | |
| 9) Chloroethane | 6.84 | 64 | 55 | N.D. | ✓ | |
| 10) Ethanol | 7.13 | 45 | 2469 | 0.146 | ng | 84 |
| 11) Acetonitrile | 7.47 | 41 | 2747 | 0.056 | ng | # 52 |
| 12) Acrolein | 7.67 | 56 | 567 | 0.047 | ng | # 61 |
| 13) Acetone | 7.89 | 58 | 10435 | 0.601 | ng | # 76 |
| 14) Trichlorofluoromethane | 8.16 | 101 | 1178 | N.D. | ✓ | |
| 15) Isopropanol | 8.35 | 45 | 1836 | N.D. | | |
| 16) Acrylonitrile | 0.00 | 53 | 0 | N.D. | ✓ | |
| 17) 1,1-Dichloroethene | 9.17 | 96 | 2175 | 0.123 | ng | # 82 |
| 18) tert-Butanol | 9.29 | 59 | 615 | N.D. | ✓ | |
| 19) Methylene Chloride | 9.36 | 84 | 5333 | 0.275 | ng | 82 |
| 20) Allyl Chloride | 9.45 | 41 | 51 | N.D. | ✓ | |
| 21) Trichlorotrifluoroethane | 0.00 | 151 | 0 | N.D. | ✓ | |
| 22) Carbon Disulfide | 9.77 | 76 | 6808 | 0.093 | ng | 88 |
| 23) trans-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | ✓ | |
| 24) 1,1-Dichloroethane | 11.09 | 63 | 626 | N.D. | ✓ | |
| 25) Methyl tert-Butyl Ether | 0.00 | 73 | 0 | N.D. | ✓ | |
| 26) Vinyl Acetate | 0.00 | 86 | 0 | N.D. | ✓ | |
| 27) 2-Butanone | 11.70 | 72 | 1608 | 0.127 | ng | # 76 |
| 28) cis-1,2-Dichloroethene | 0.00 | 61 | 0 | N.D. | ✓ | |
| 29) Diisopropyl Ether | 12.78 | 87 | 659131 | 42.474 | ng | 1 |
| 30) Ethyl Acetate | 0.00 | 61 | 0 | N.D. | | |
| 31) n-Hexane | 12.68 | 57 | 491 | N.D. | | |

Fac 4/08

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev (Min) |
|-------------------------------|-------|------|----------|---------|-------|-----------|
| 32) Chloroform | 12.78 | 83 | 6146007 | 209.094 | ng | 99 |
| 34) Tetrahydrofuran | 0.00 | 72 | 0 | N.D. | | |
| 35) Ethyl tert-Butyl Ether | 0.00 | 87 | 0 | N.D. | | |
| 36) 1,2-Dichloroethane | 13.89 | 62 | 70 | N.D. | ✓ | |
| 38) 1,1,1-Trichloroethane | 0.00 | 97 | 0 | N.D. | ✓ | |
| 39) Isopropyl Acetate | 0.00 | 61 | 0 | N.D. | ✓ | |
| 40) 1-Butanol | 14.87 | 56 | 6009 | 0.312 | ng | 92 |
| 41) Benzene | 14.98 | 78 | 7890 | 0.108 | ng | 98 |
| 42) Carbon Tetrachloride | 15.22 | 117 | 5686 | 0.201 | ng | 95 |
| 43) Cyclohexane | 15.41 | 84 | 58 | N.D. | | |
| 44) tert-Amyl Methyl Ether | 0.00 | 73 | 0 | N.D. | ✓ | |
| 45) 1,2-Dichloropropane | 16.20 | 63 | 318 | N.D. | ✓ | |
| 46) Bromodichloromethane | 16.46 | 83 | 22906 | 0.924 | ng | 99 |
| 47) Trichloroethene | 16.53 | 130 | 45956 | 2.042 | ng | 99 |
| 48) 1,4-Dioxane | 0.00 | 88 | 0 | N.D. | ✓ | |
| 49) Isooctane | 16.62 | 57 | 386 | N.D. | | |
| 50) Methyl Methacrylate | 0.00 | 100 | 0 | N.D. | ✓ | |
| 51) n-Heptane | 0.00 | 71 | 0 | N.D. | ✓ | |
| 52) cis-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | ✓ | |
| 53) 4-Methyl-2-pentanone | 0.00 | 58 | 0 | N.D. | ✓ | |
| 54) trans-1,3-Dichloropropene | 0.00 | 75 | 0 | N.D. | ✓ | |
| 55) 1,1,2-Trichloroethane | 18.94 | 97 | 126972 | 7.005 | ng | 7 |
| 58) Toluene | 19.07 | 91 | 7823 | 0.096 | ng | 98 |
| 59) 2-Hexanone | 19.38 | 43 | 1023 | N.D. | ✓ | |
| 60) Dibromochloromethane | 19.61 | 129 | 11201 | 0.507 | ng | 97 |
| 61) 1,2-Dibromoethane | 0.00 | 107 | 0 | N.D. | ✓ | |
| 62) Butyl Acetate | 20.33 | 43 | 214 | N.D. | | |
| 63) n-Octane | 0.00 | 57 | 0 | N.D. | ✓ | |
| 64) Tetrachloroethene | 20.54 | 166 | 69814 | 2.883 | ng | 99 |
| 65) Chlorobenzene | 21.40 | 112 | 909 | N.D. | ✓ | |
| 66) Ethylbenzene | 21.89 | 91 | 2890 | N.D. | ✓ | |
| 67) m- & p-Xylene | 22.09 | 91 | 10231 | 0.163 | ng | 92 |
| 68) Bromoform | 22.21 | 173 | 11567 | 0.703 | ng | 99 |
| 69) Styrene | 22.58 | 104 | 447 | N.D. | ✓ | |
| 70) o-Xylene | 22.71 | 91 | 5967 | 0.088 | ng | 86 |
| 71) n-Nonane | 22.98 | 43 | 300 | N.D. | | |
| 72) 1,1,2,2-Tetrachloroethane | 22.68 | 83 | 59 | N.D. | ✓ | |
| 74) Cumene | 23.47 | 105 | 728 | N.D. | ✓ | |
| 75) alpha-Pinene | 23.96 | 93 | 312 | N.D. | | |
| 76) n-Propylbenzene | 24.11 | 91 | 1903 | N.D. | ✓ | |
| 77) 3-Ethyltoluene | 24.23 | 105 | 3132 | N.D. | ✓ | |
| 78) 4-Ethyltoluene | 24.27 | 105 | 2648 | N.D. | ✓ | |
| 79) 1,3,5-Trimethylbenzene | 24.37 | 105 | 1574 | N.D. | ✓ | |

SU
 RES, E
 6/6/08

MR

6/6/08

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------------------|-------|----------|
| 80) alpha-Methylstyrene | 24.76 | 118 | 1954 | 0.045 ng | # | 14 |
| 81) 2-Ethyltoluene | 24.61 | 105 | 2202 | N.D. | | |
| 82) 1,2,4-Trimethylbenzene | 24.88 | 105 | 5267 | 0.064 ng | | 83 |
| 83) n-Decane | 24.98 | 57 | 1490 | N.D. | | |
| 84) Benzyl Chloride | 25.05 | 91 | 498 | N.D. ✓ | | |
| 85) 1,3-Dichlorobenzene | 25.09 | 146 | 572 | N.D. ✓ | | |
| 86) 1,4-Dichlorobenzene | 25.15 | 146 | 4808 | 0.096 ng | | 98 |
| 87) sec-Butylbenzene | 25.20 | 105 | 242 | N.D. ✓ | | |
| 88) p-Isopropyltoluene | 25.40 | 119 | 1113 | N.D. ✓ | | |
| 89) 1,2,3-Trimethylbenzene | 25.41 | 105 | 1812 | N.D. | | |
| 90) 1,2-Dichlorobenzene | 25.58 | 146 | 1071 | N.D. ✓ | | |
| 91) d-Limonene | 25.57 | 68 | 1035 | N.D. | | |
| 92) 1,2-Dibromo-3-Chloropr... | 0.00 | 157 | 0 | N.D. ✓ | | |
| 93) n-Undecane | 26.50 | 57 | 6046 | 0.128 ng | # | 43 |
| 94) 1,2,4-Trichlorobenzene | 27.64 | 180 | 1306 | N.D. ✓ | | |
| 95) Naphthalene | 27.77 | 128 | 7828 | 0.072 ng | | 93 |
| 96) n-Dodecane | 27.74 | 57 | 5342 | 0.113 ng | | 83 |
| 97) Hexachloro-1,3-butadiene | 28.19 | 225 | 270 | N.D. ✓ | | |

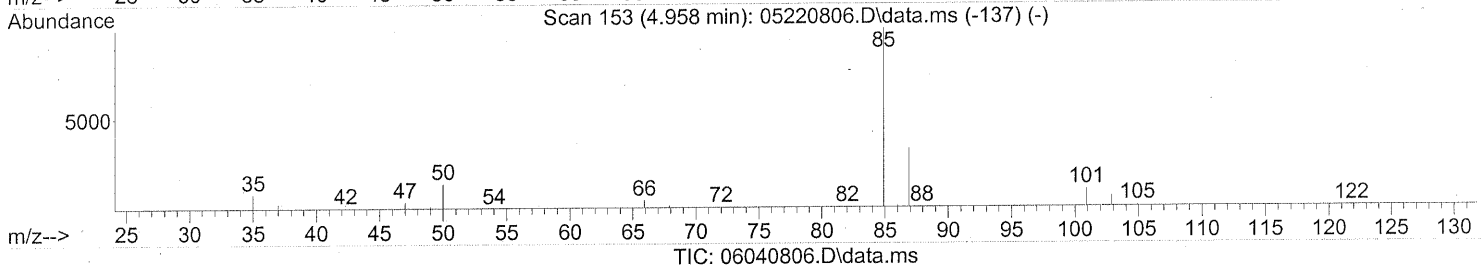
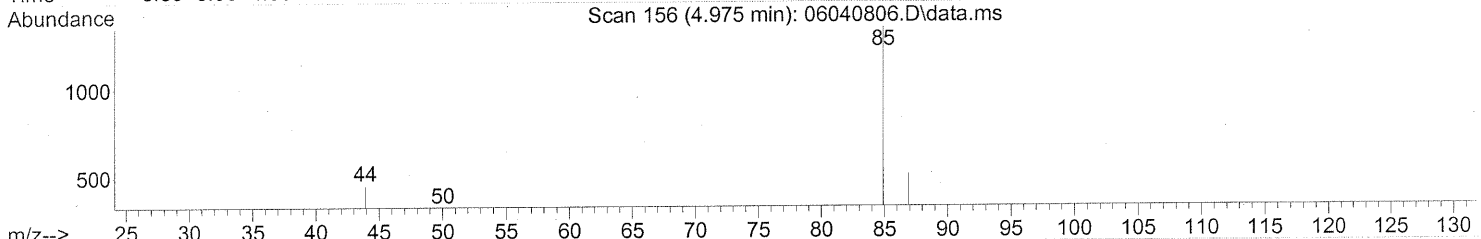
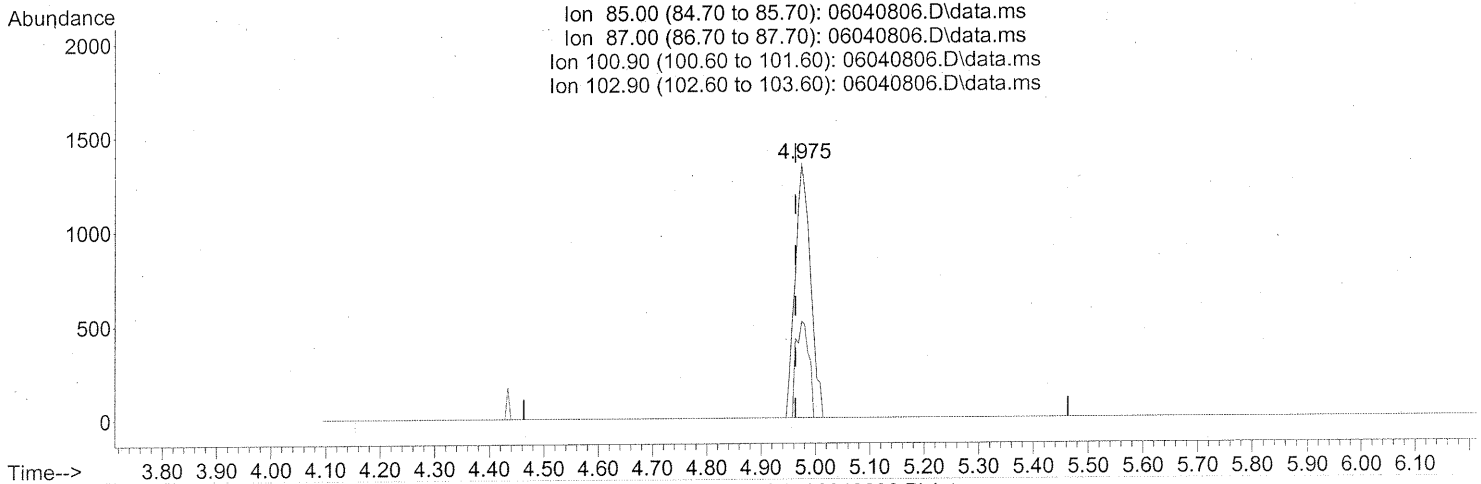
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Handwritten signature

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040806.D
Acq On : 4 Jun 2008 11:50 am
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 0.06ng

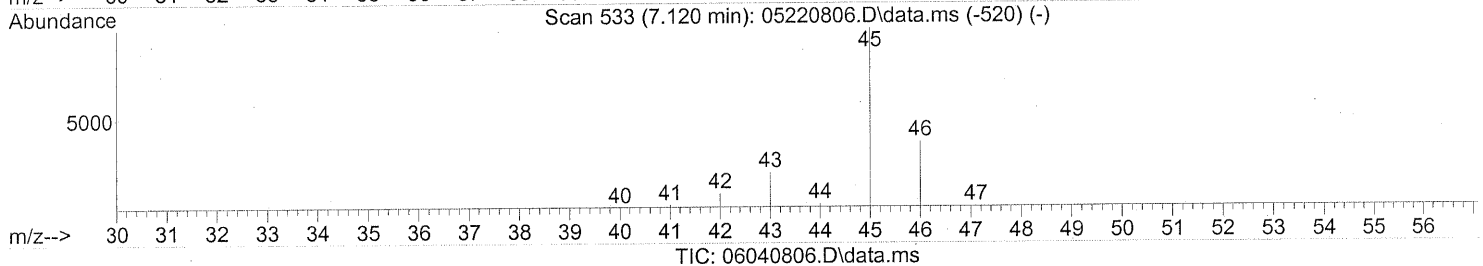
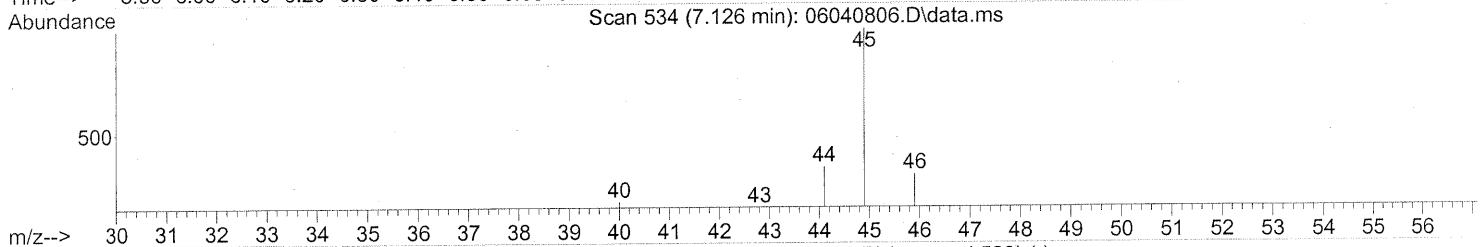
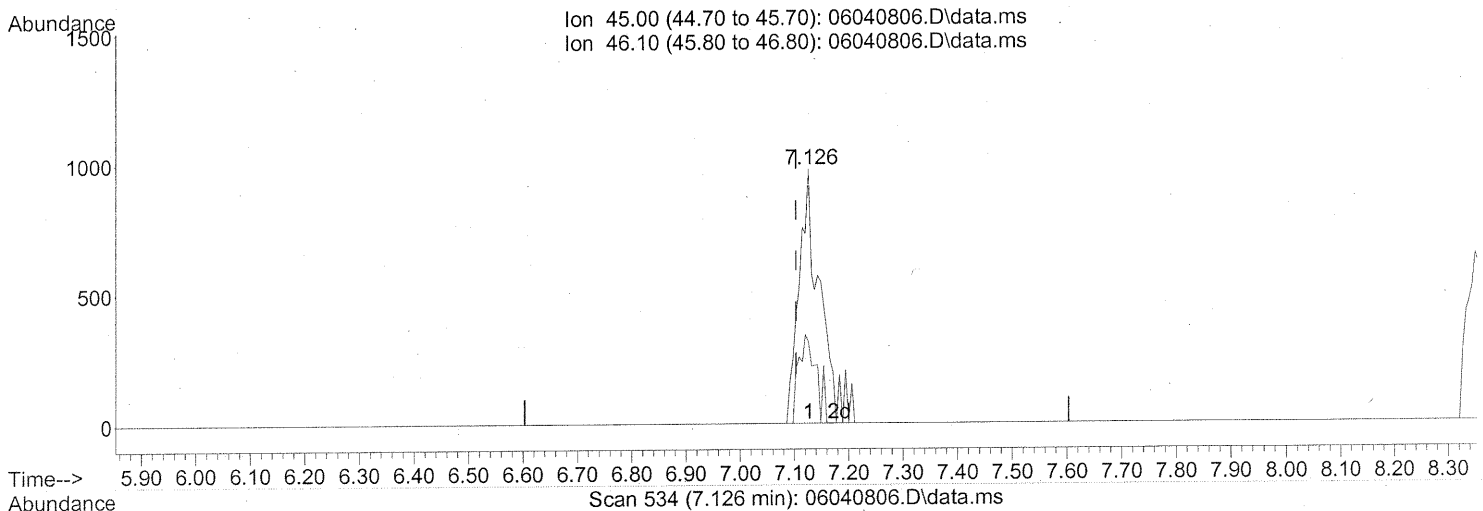
response 2668

| Ion | Exp% | Act% |
|--------|-------|-------|
| 85.00 | 100 | 100 |
| 87.00 | 32.50 | 31.63 |
| 100.90 | 9.30 | 0.00 |
| 102.90 | 6.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
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 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(10) Ethanol (T)

7.126min (+0.023) 0.15ng

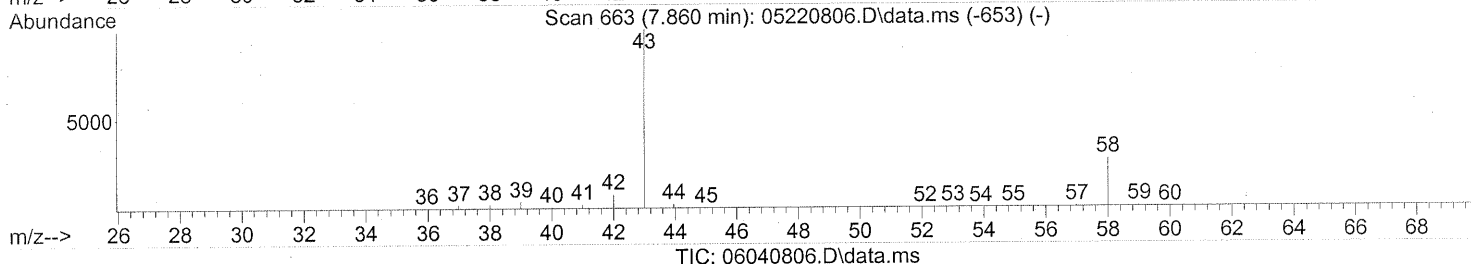
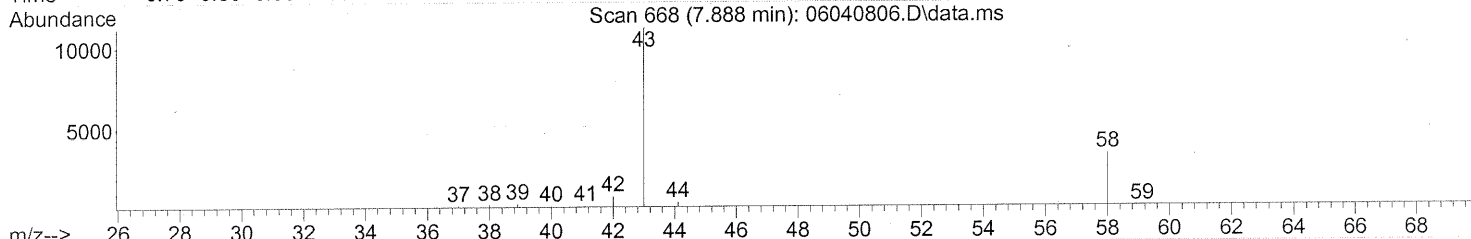
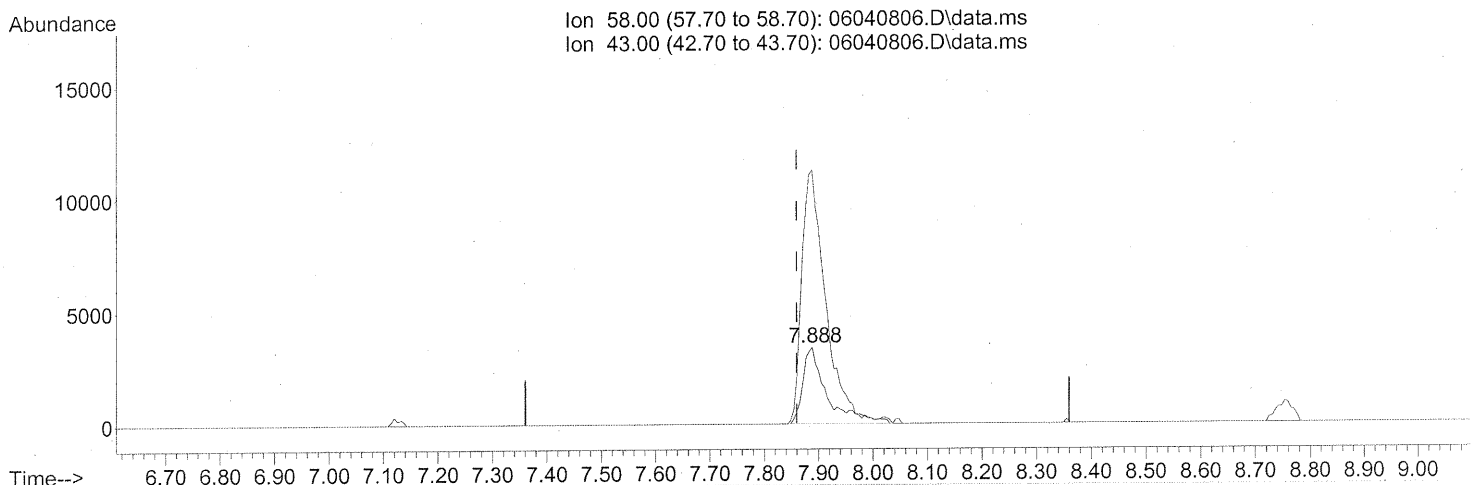
response 2469

| Ion | Exp% | Act% |
|-------|-------|-------|
| 45.00 | 100 | 100 |
| 46.10 | 41.00 | 30.94 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040806.D
Acq On : 4 Jun 2008 11:50 am
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(13) Acetone (T)

7.888min (+0.028) 0.60ng

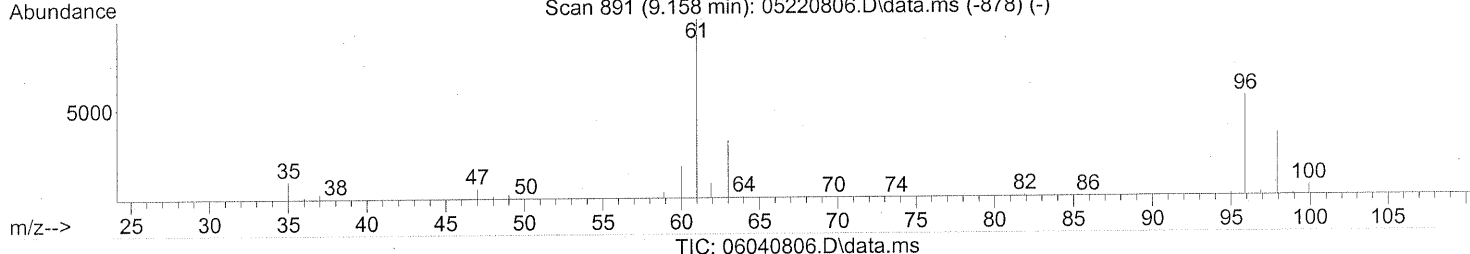
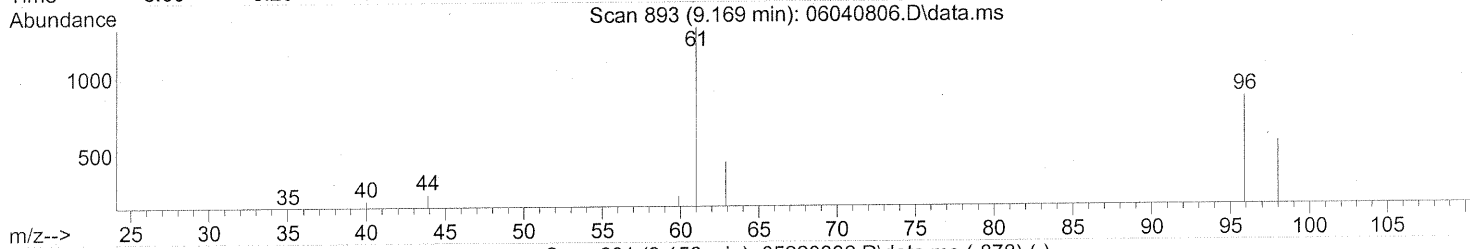
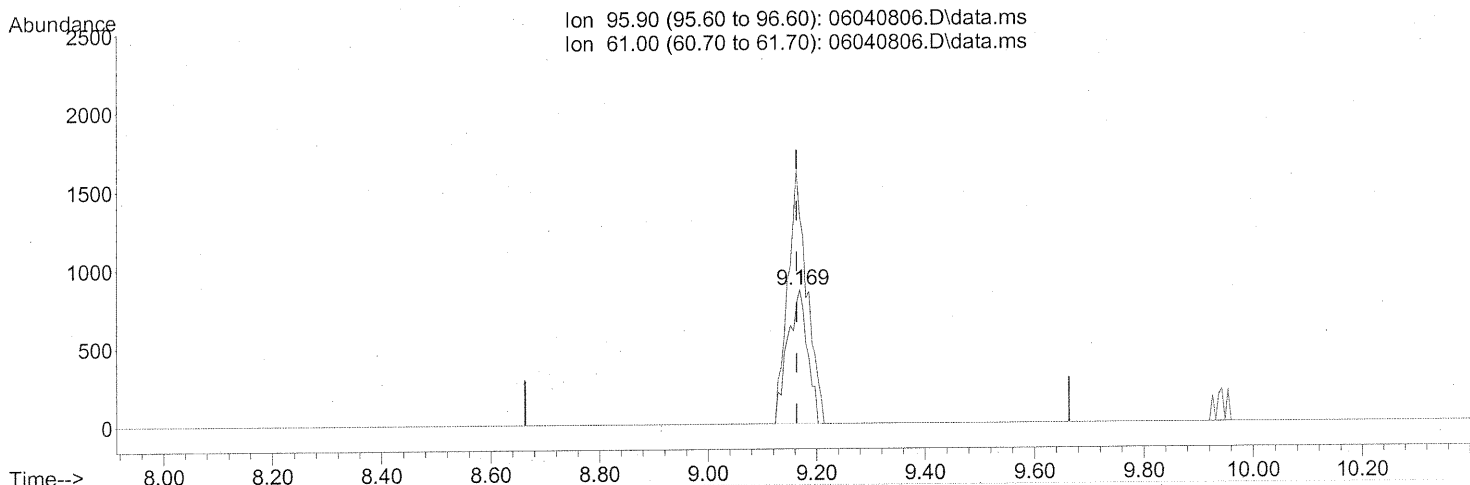
response 10435

| Ion | Exp% | Act% |
|-------|--------|---------|
| 58.00 | 100 | 100 |
| 43.00 | 283.10 | 328.43# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.169min (+0.006) 0.12ng

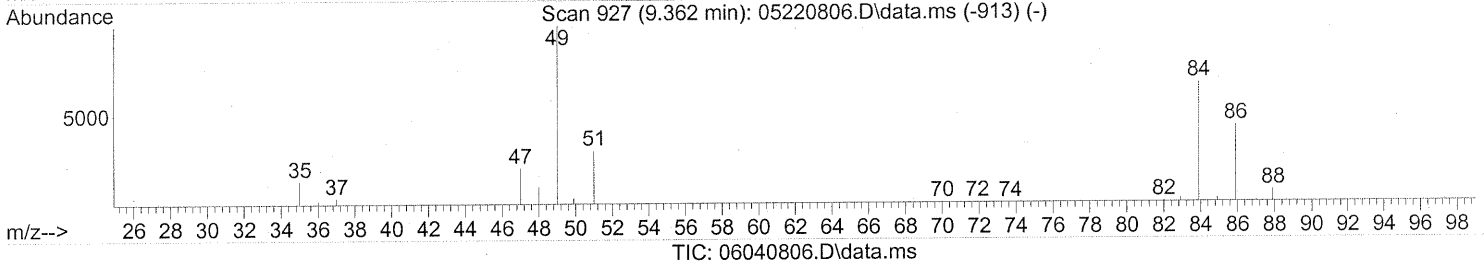
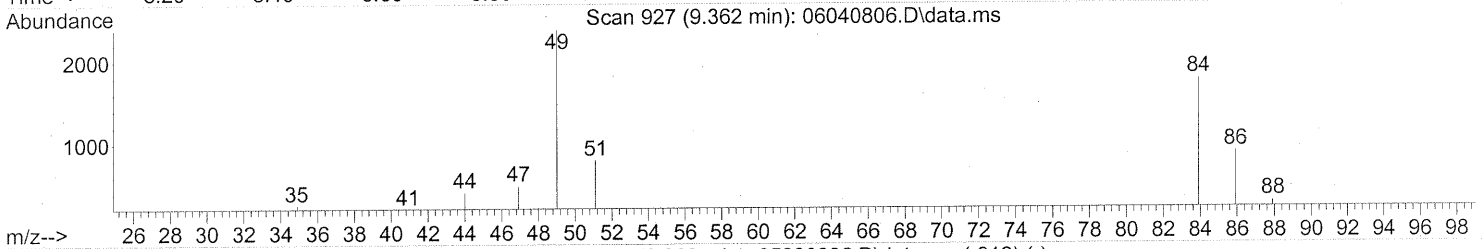
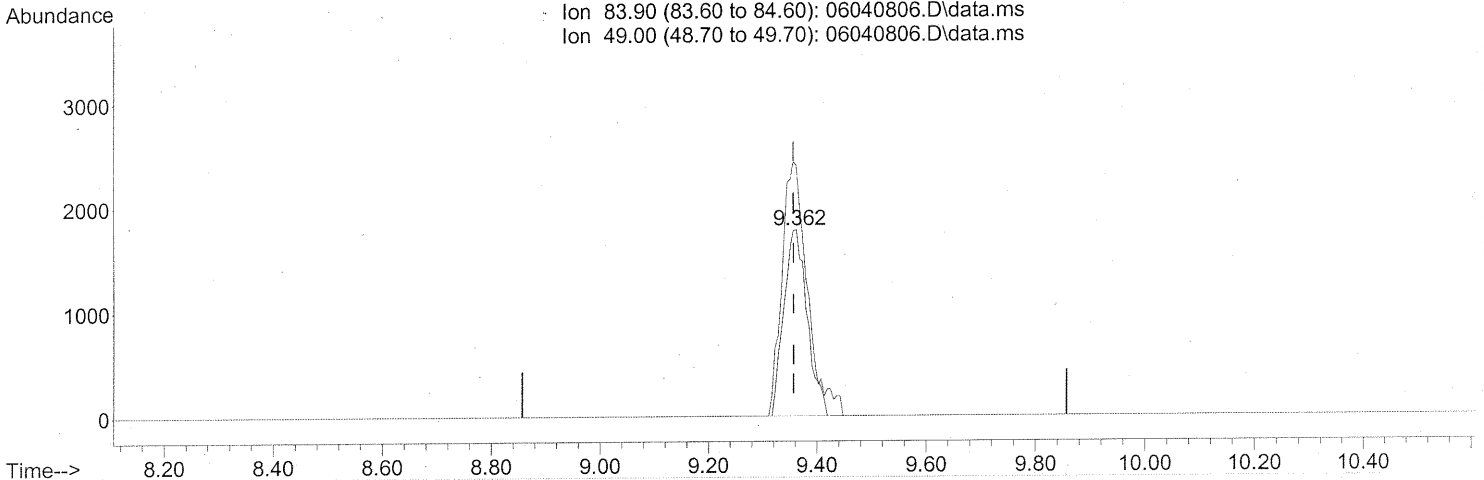
response 2175

| Ion | Exp% | Act% |
|-------|--------|---------|
| 95.90 | 100 | 100 |
| 61.00 | 210.00 | 182.48# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.28ng

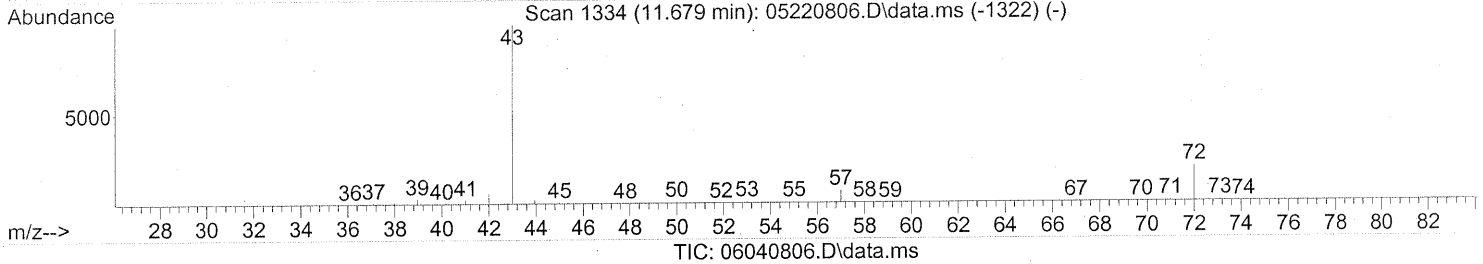
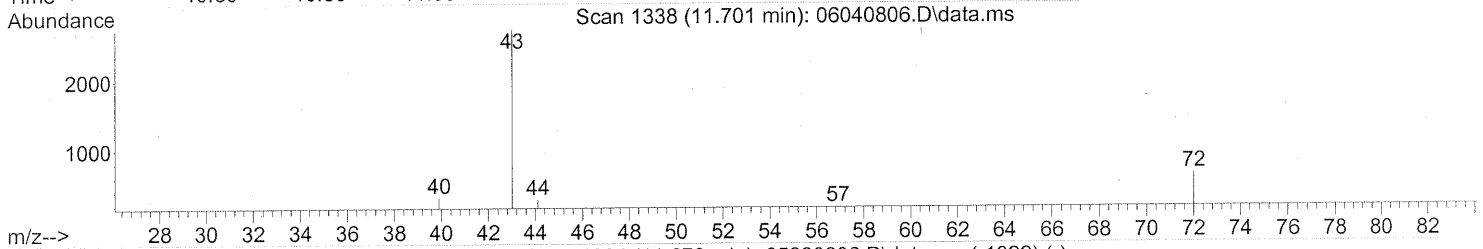
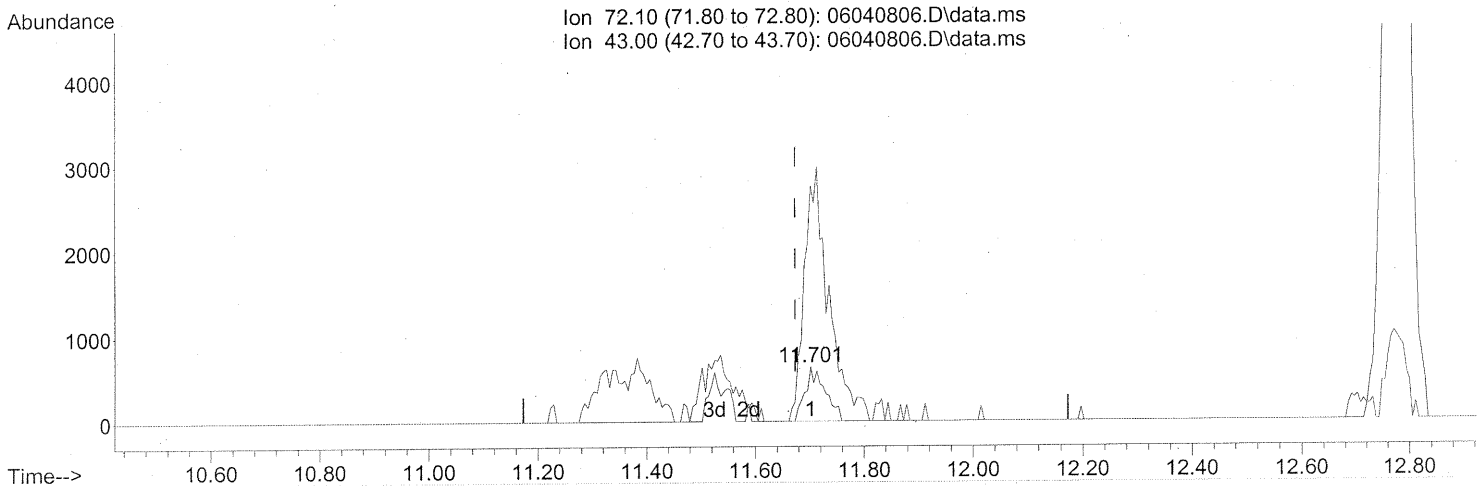
response 5333

| Ion | Exp% | Act% |
|-------|--------|--------|
| 83.90 | 100 | 100 |
| 49.00 | 172.90 | 148.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.701min (+0.028) 0.13ng

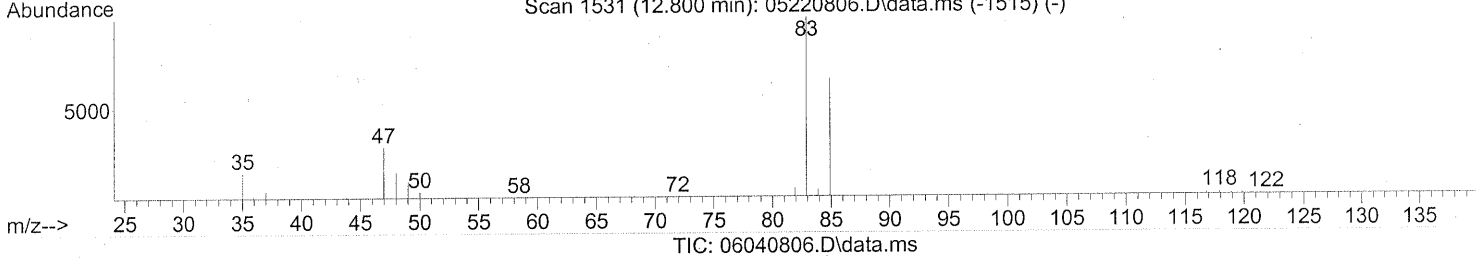
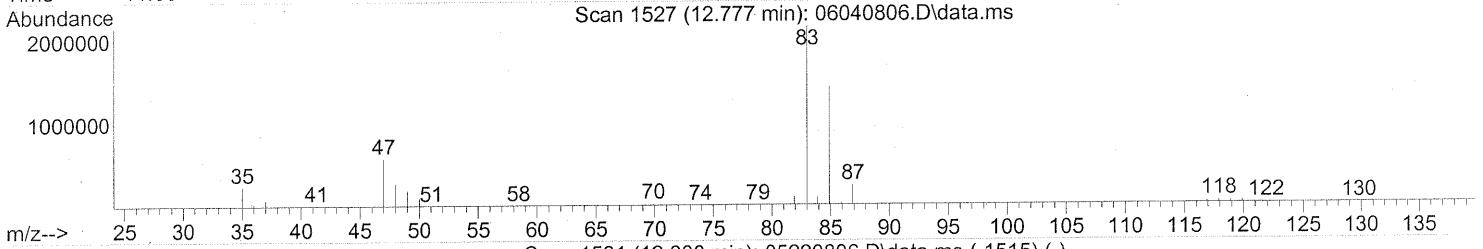
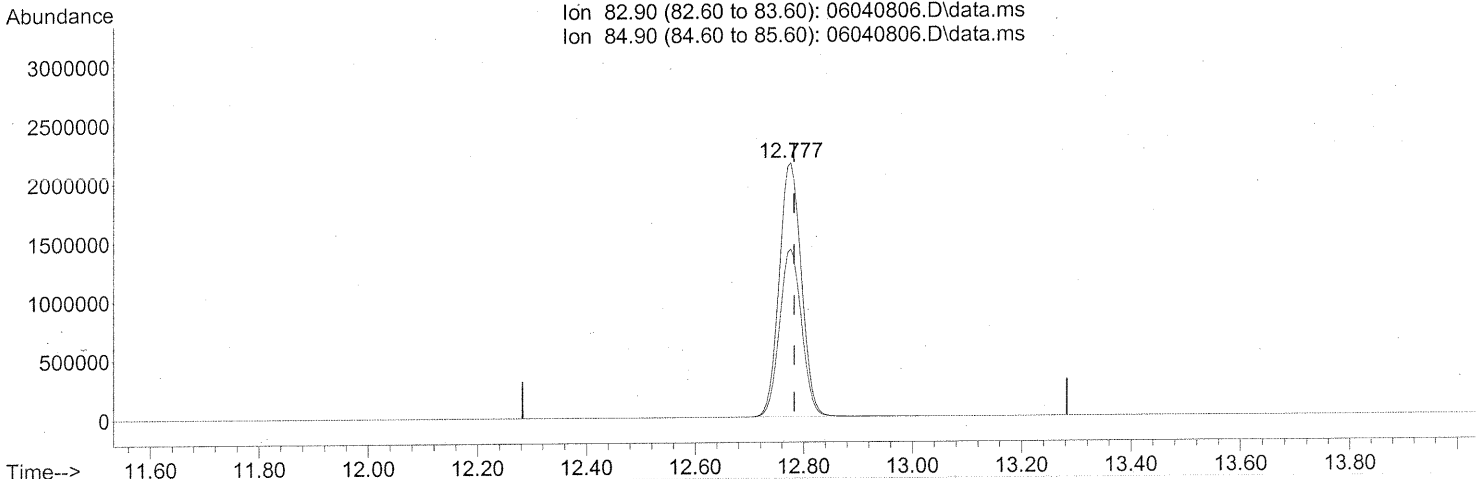
response 1608

| Ion | Exp% | Act% |
|-------|--------|---------|
| 72.10 | 100 | 100 |
| 43.00 | 506.80 | 573.01# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



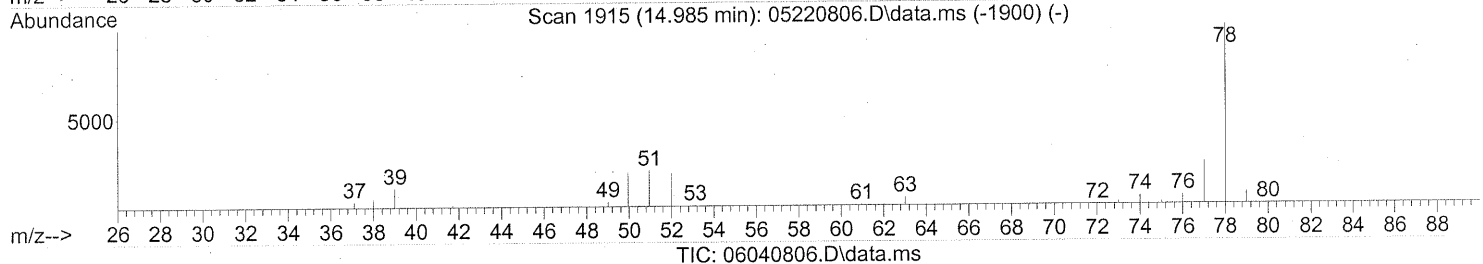
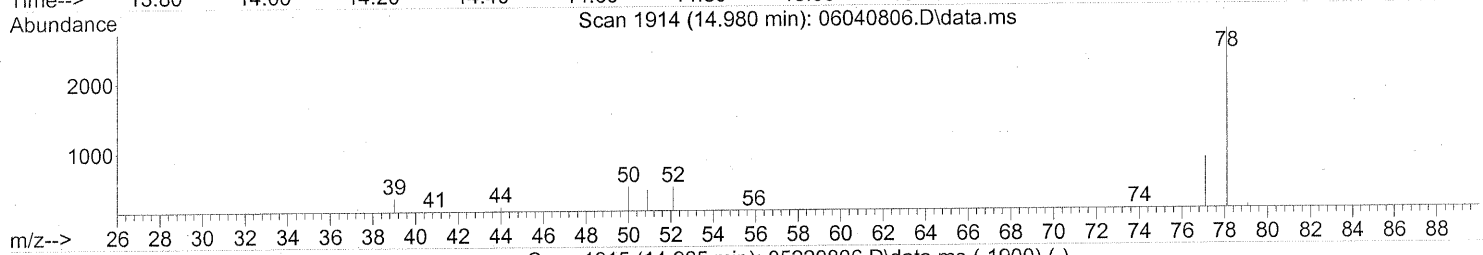
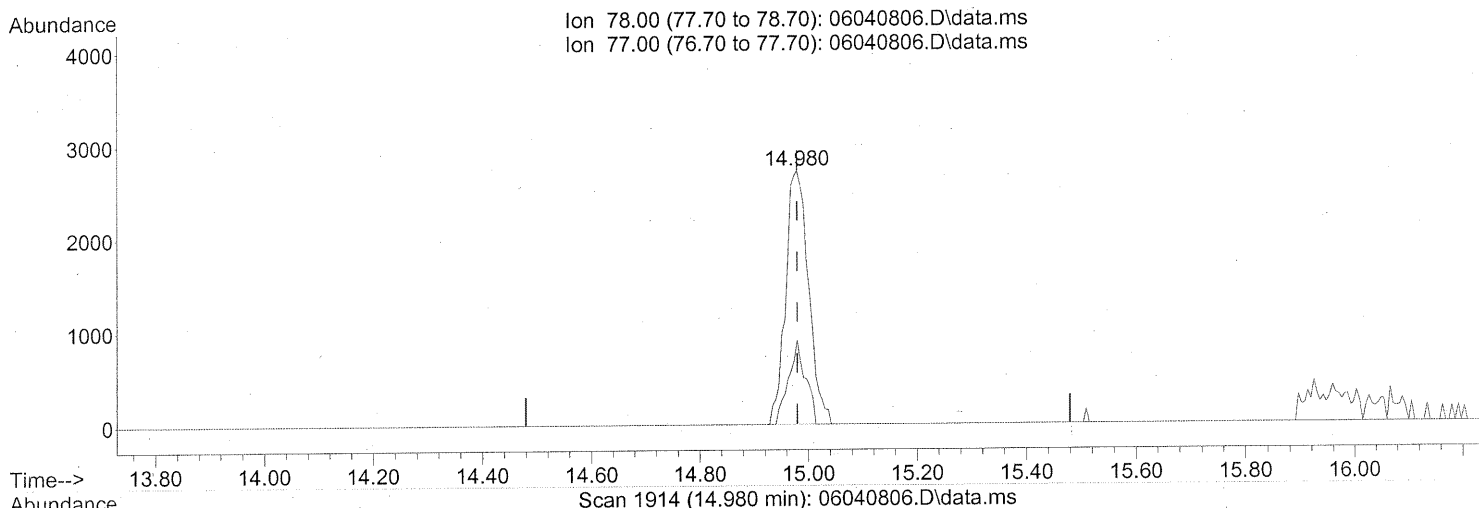
(32) Chloroform (T)
 12.777min (-0.006) 209.09ng
 response 6146007

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 64.70 | 65.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(41) Benzene (T)

14.980min (-0.000) 0.11ng

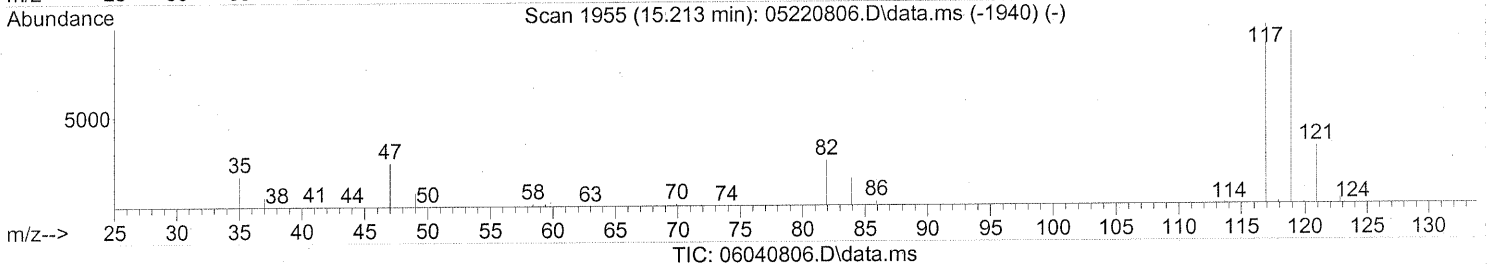
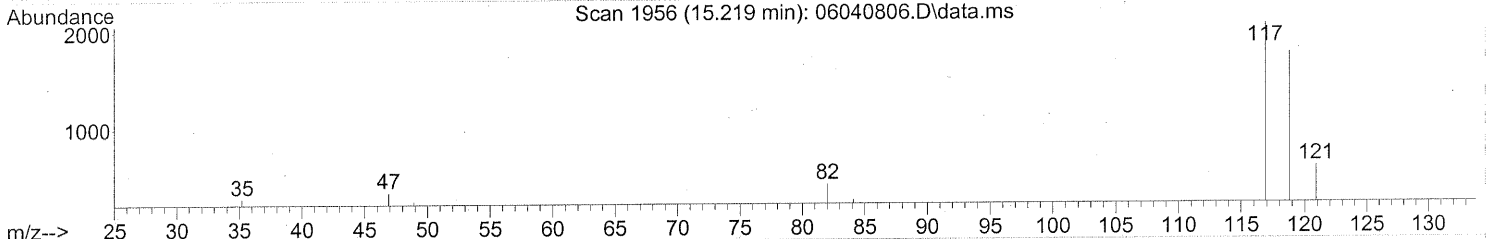
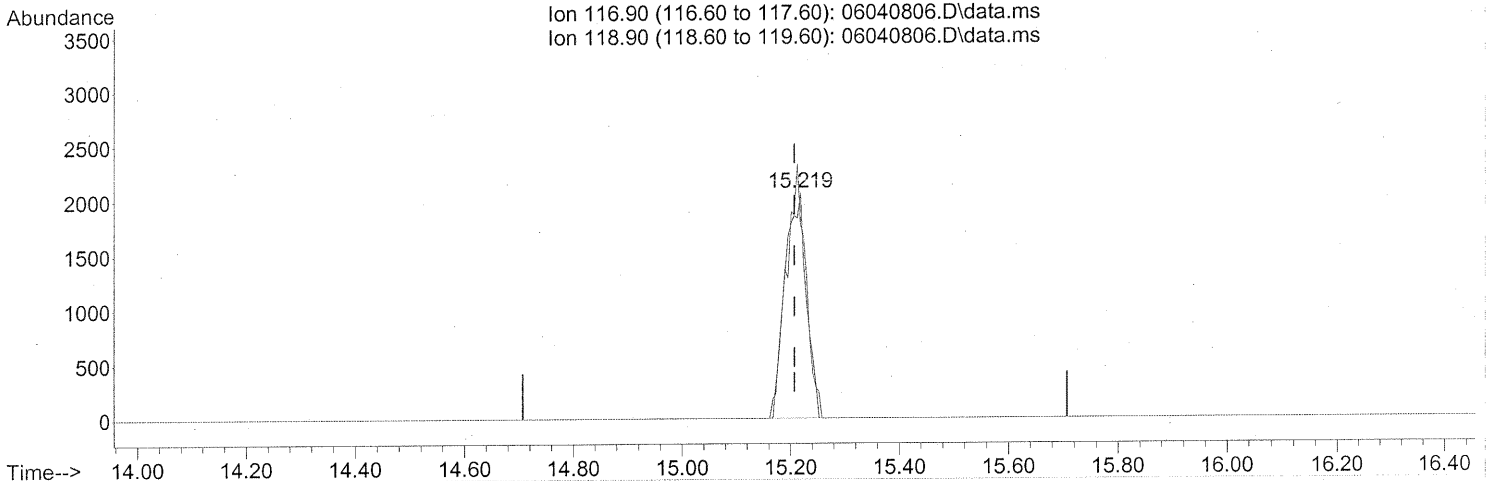
response 7890

| Ion | Exp% | Act% |
|-------|-------|-------|
| 78.00 | 100 | 100 |
| 77.00 | 23.50 | 24.69 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Quant)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.219min (+0.011) 0.20ng

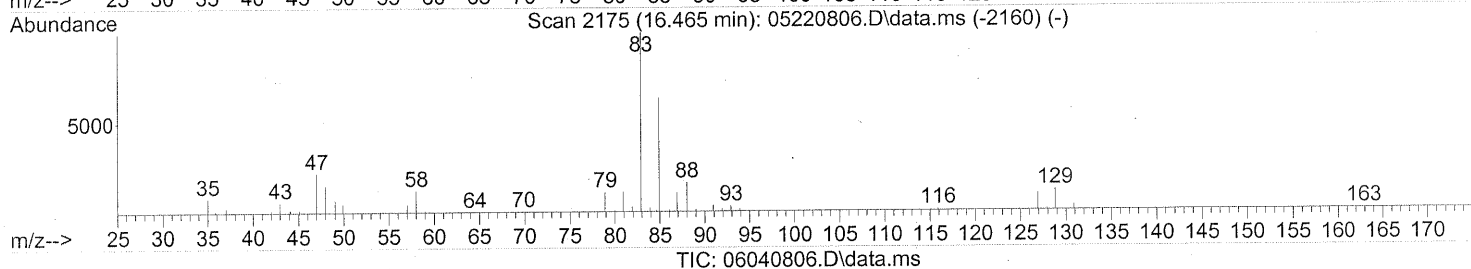
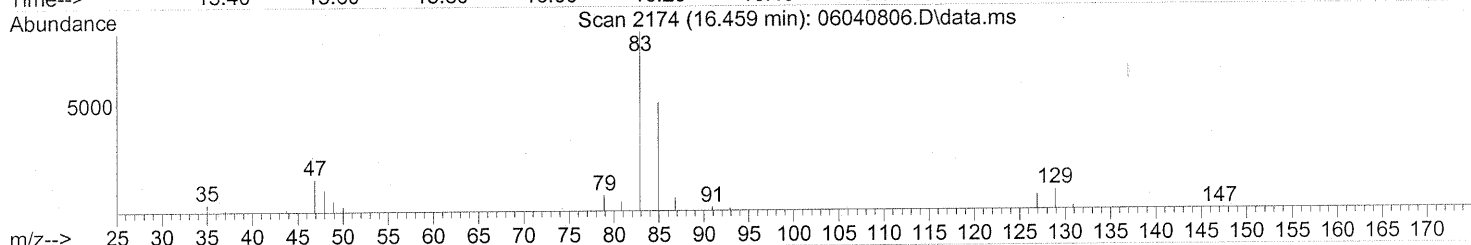
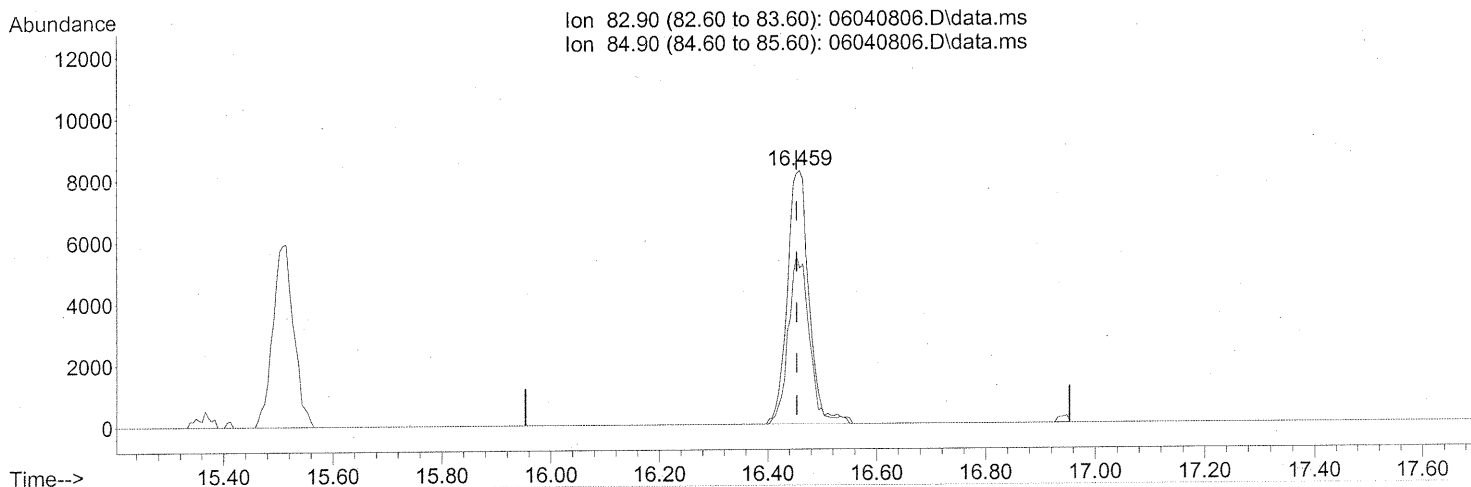
response 5686

| Ion | Exp% | Act% |
|--------|-------|--------|
| 116.90 | 100 | 100 |
| 118.90 | 96.60 | 101.85 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040806.D
Acq On : 4 Jun 2008 11:50 am
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.92ng

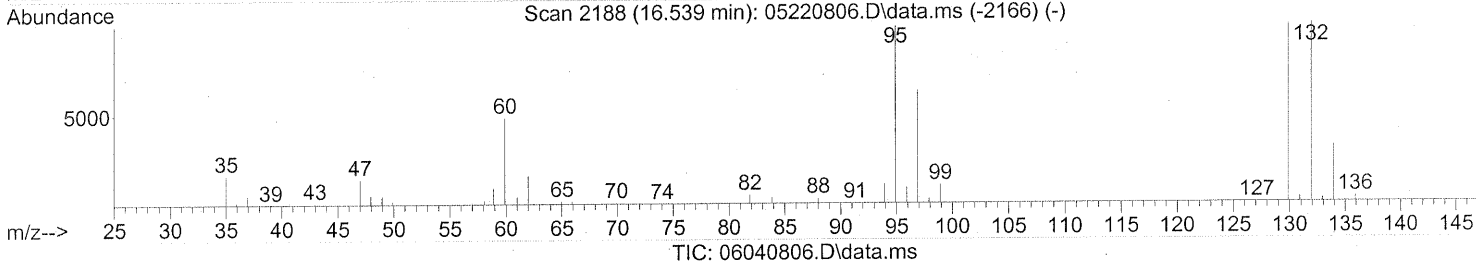
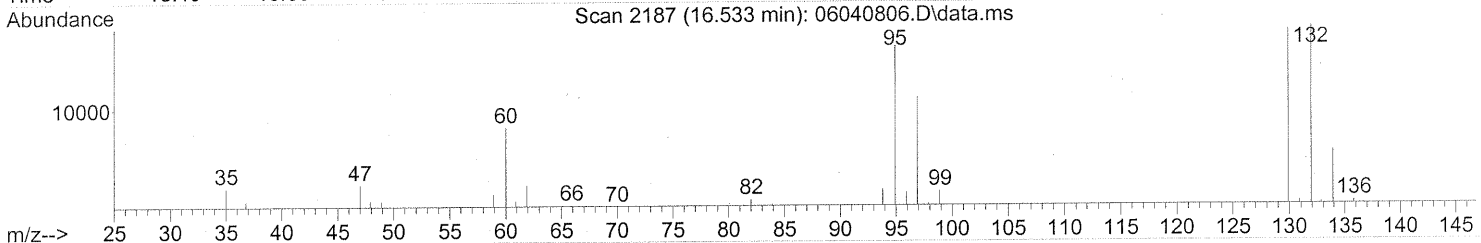
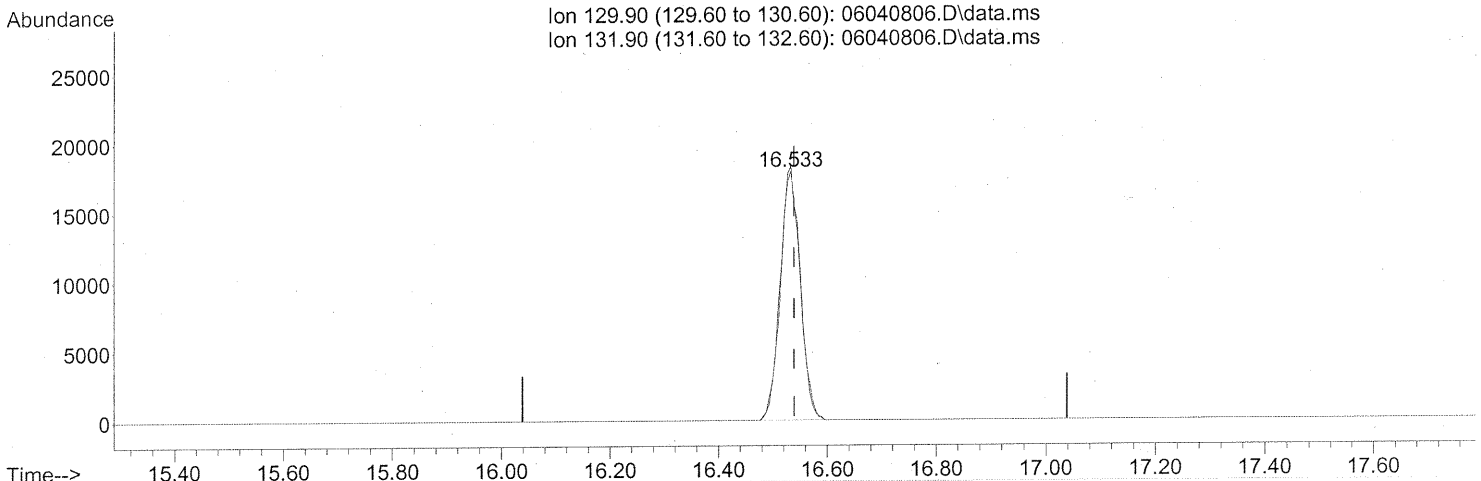
response 22906

| Ion | Exp% | Act% |
|-------|-------|-------|
| 82.90 | 100 | 100 |
| 84.90 | 63.70 | 64.76 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 2.04ng

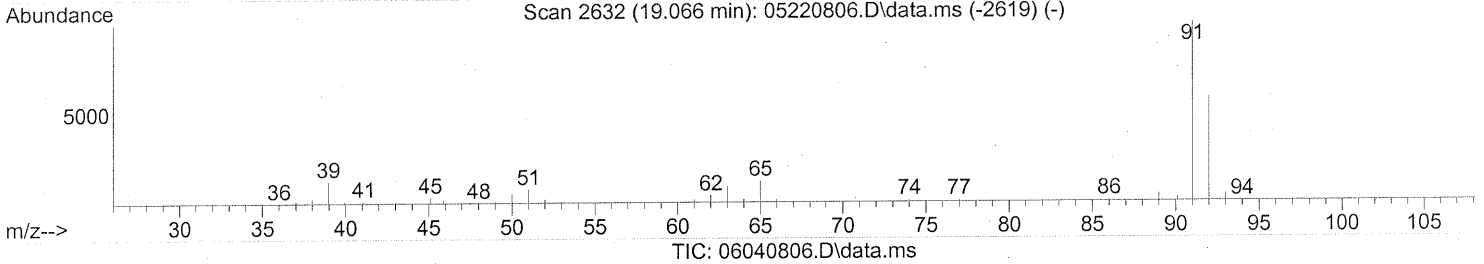
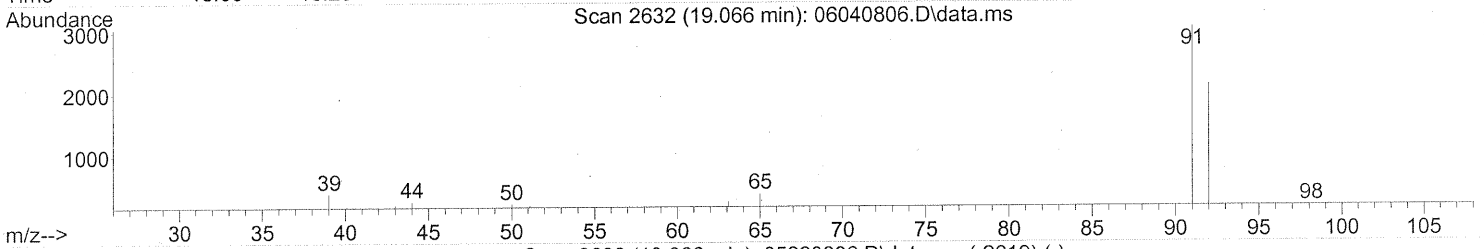
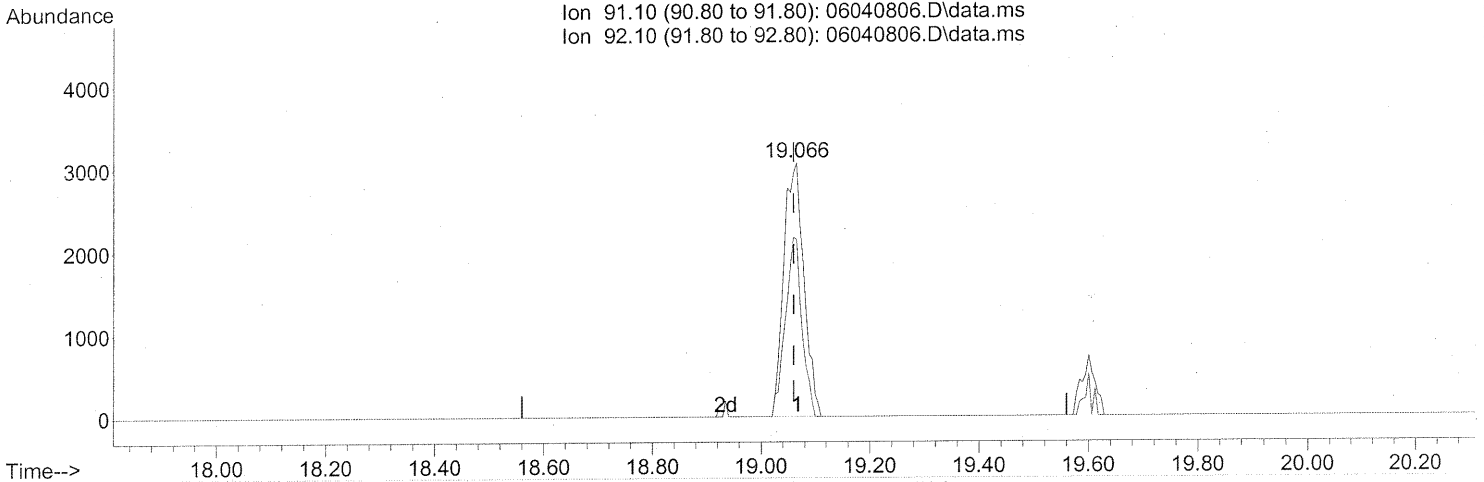
response 45956

| Ion | Exp% | Act% |
|--------|--------|--------|
| 129.90 | 100 | 100 |
| 131.90 | 101.20 | 100.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(58) Toluene (T)
 19.066min (+0.006) 0.10ng

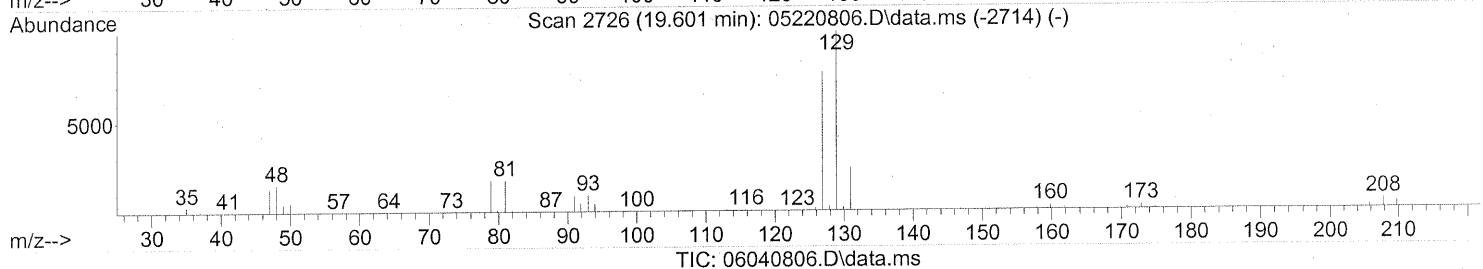
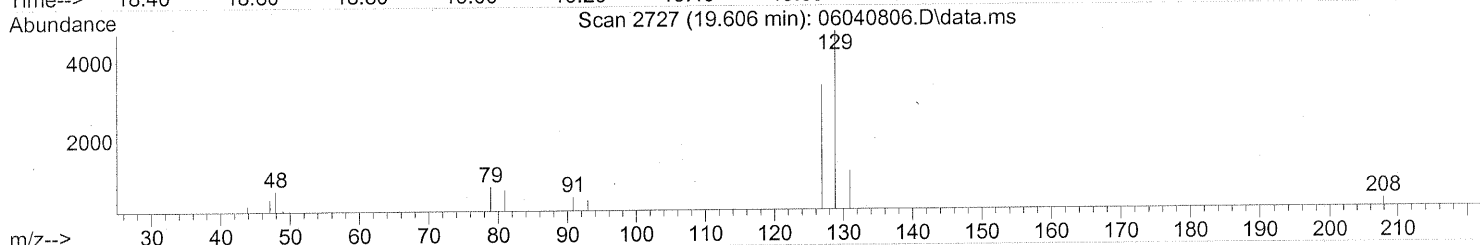
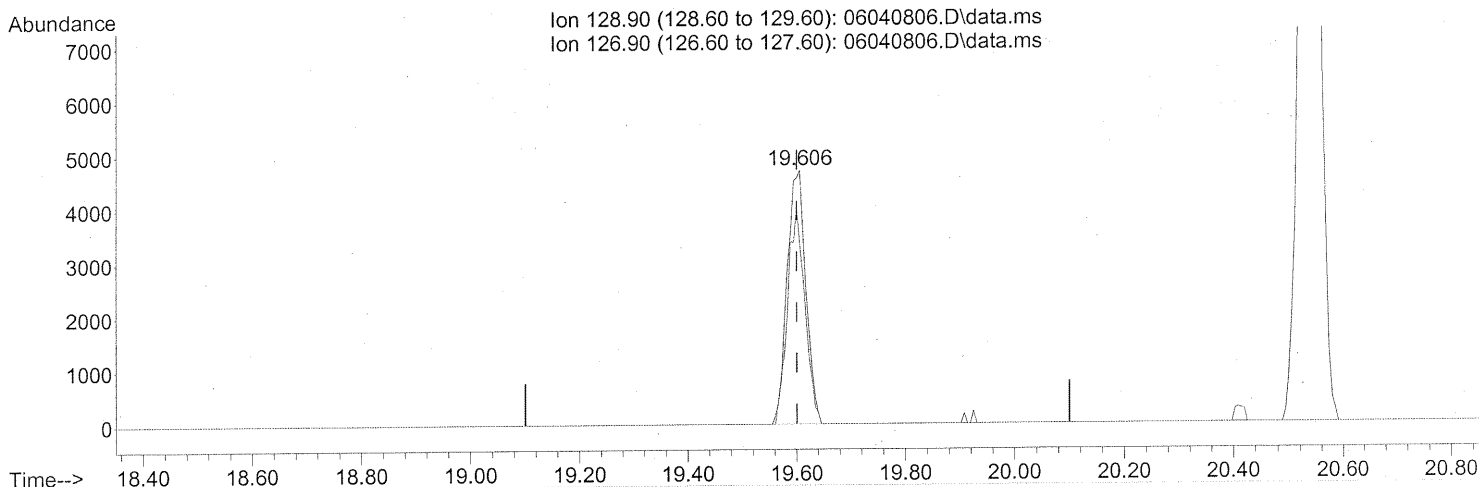
response 7823

| Ion | Exp% | Act% |
|-------|-------|-------|
| 91.10 | 100 | 100 |
| 92.10 | 59.80 | 58.42 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.606min (+0.006) 0.51ng

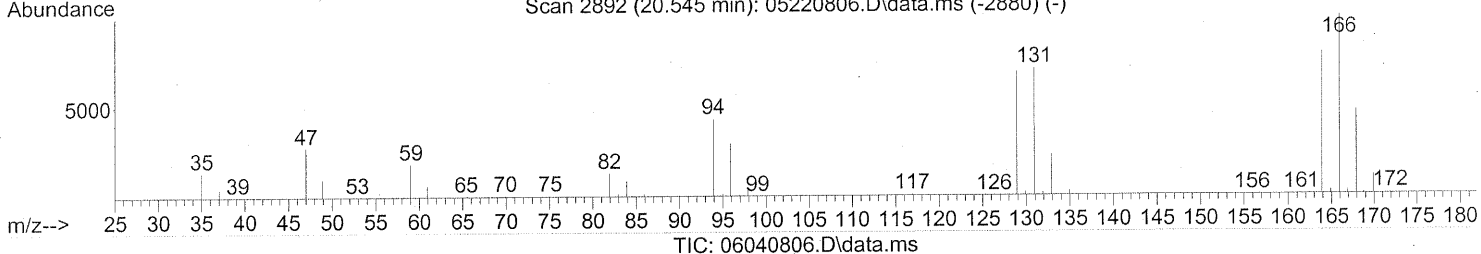
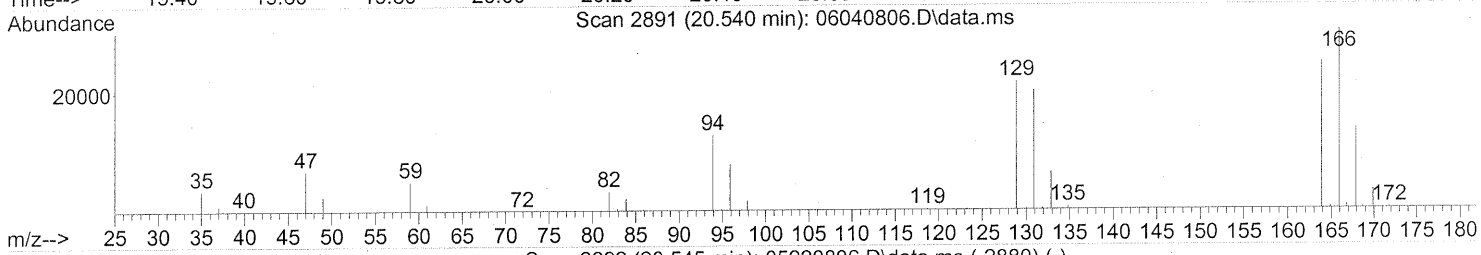
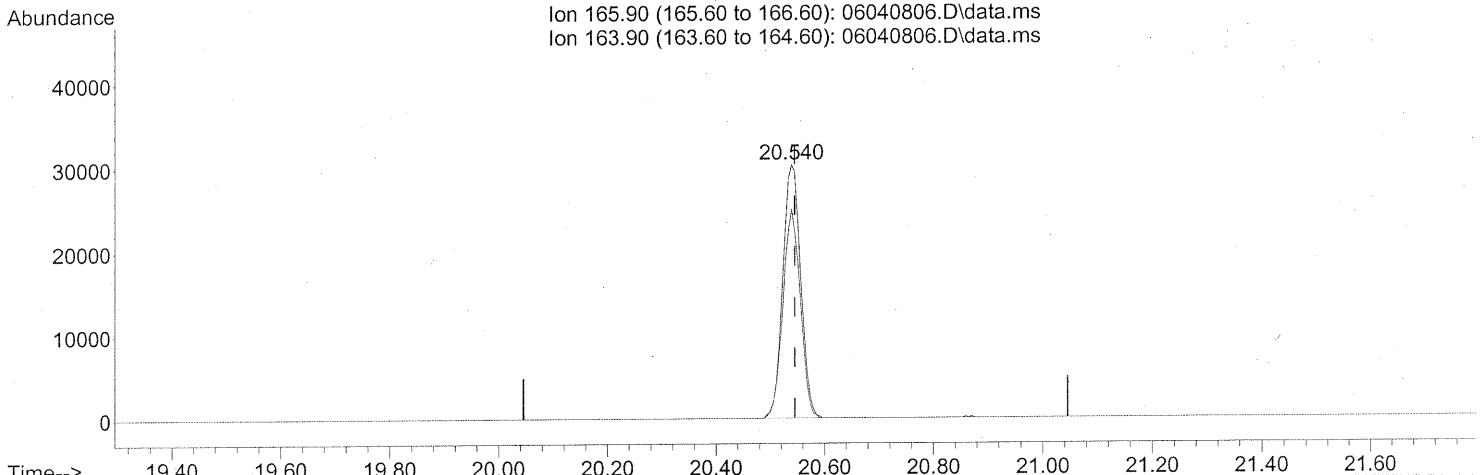
response 11201

| Ion | Exp% | Act% |
|--------|-------|-------|
| 128.90 | 100 | 100 |
| 126.90 | 76.90 | 79.13 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 2.88ng

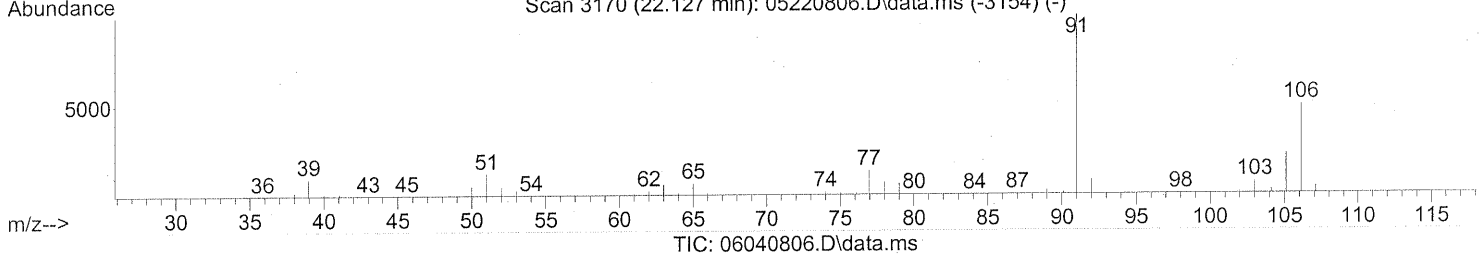
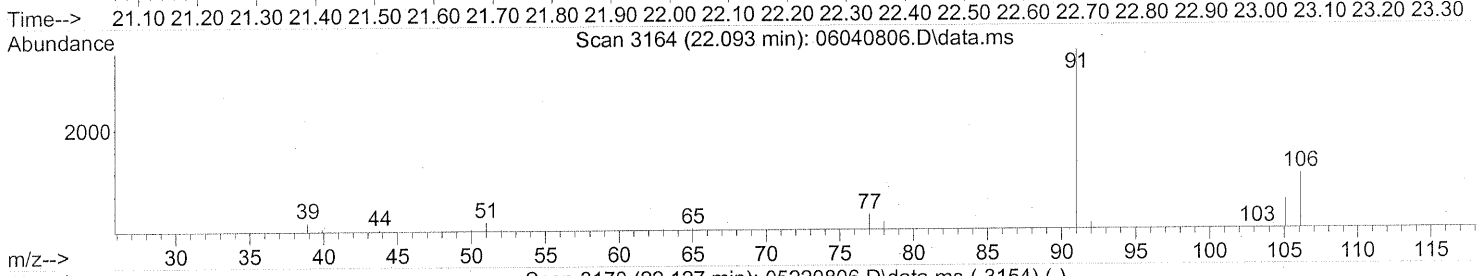
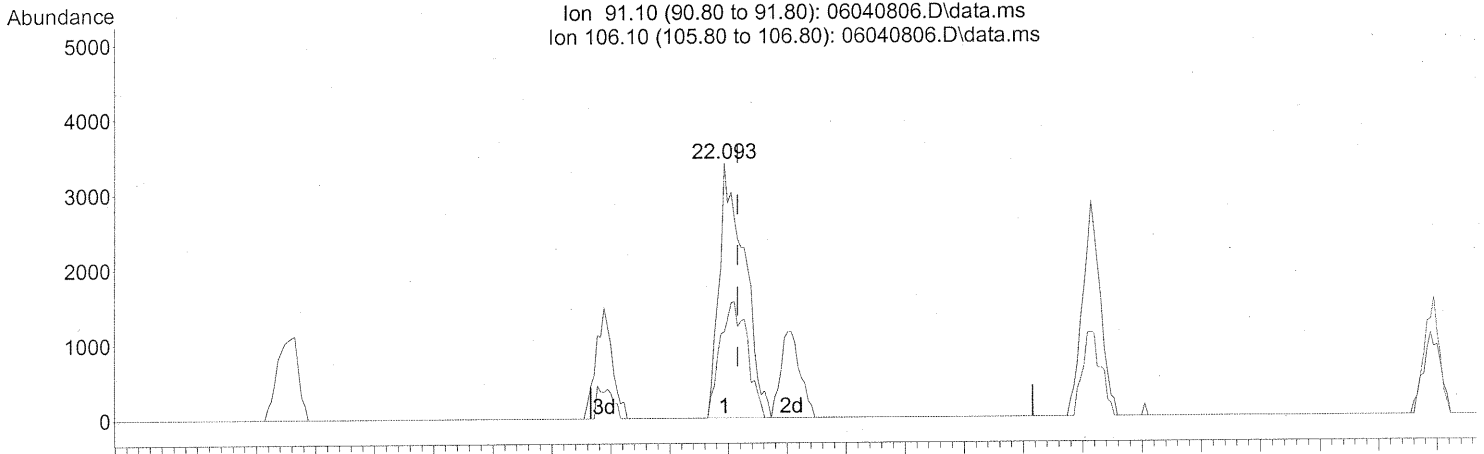
response 69814

| Ion | Exp% | Act% |
|--------|-------|-------|
| 165.90 | 100 | 100 |
| 163.90 | 78.70 | 79.95 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040806.D
Acq On : 4 Jun 2008 11:50 am
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(67) m- & p-Xylene (T)

22.093min (-0.023) 0.16ng

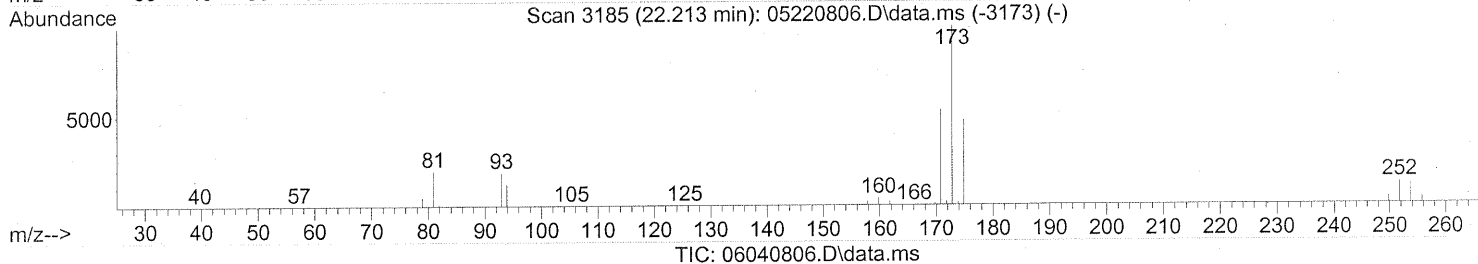
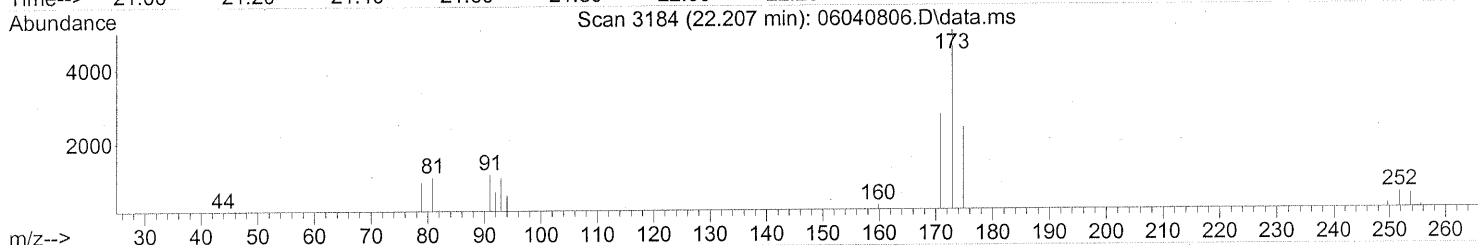
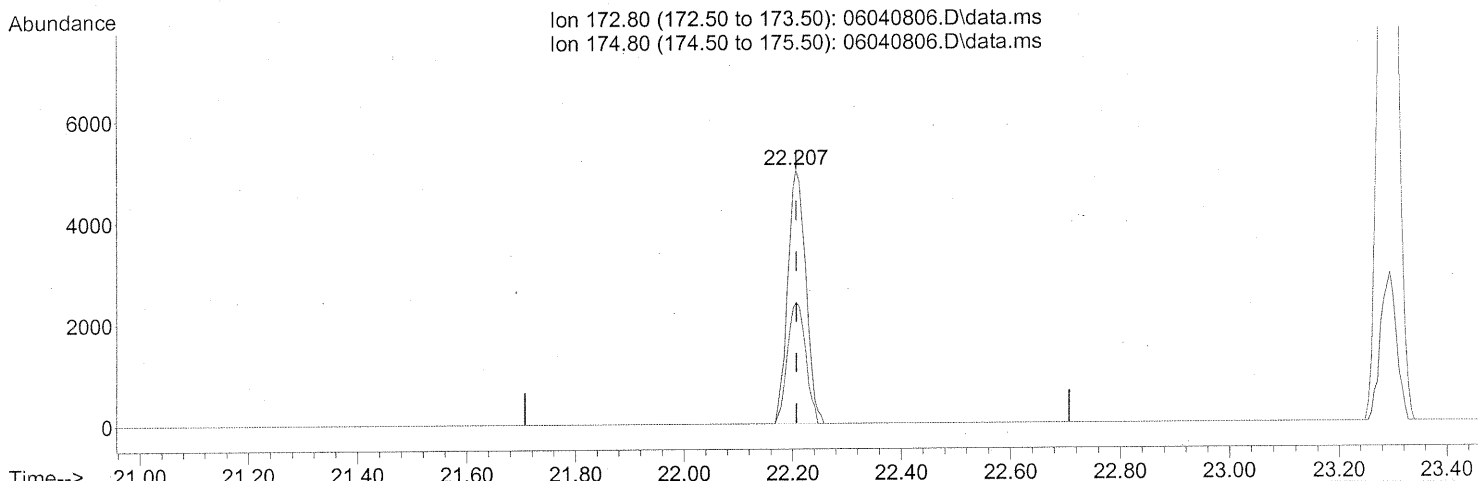
response 10231

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 54.60 | 48.60 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(68) Bromoform (T)

22.207min (-0.000) 0.70ng

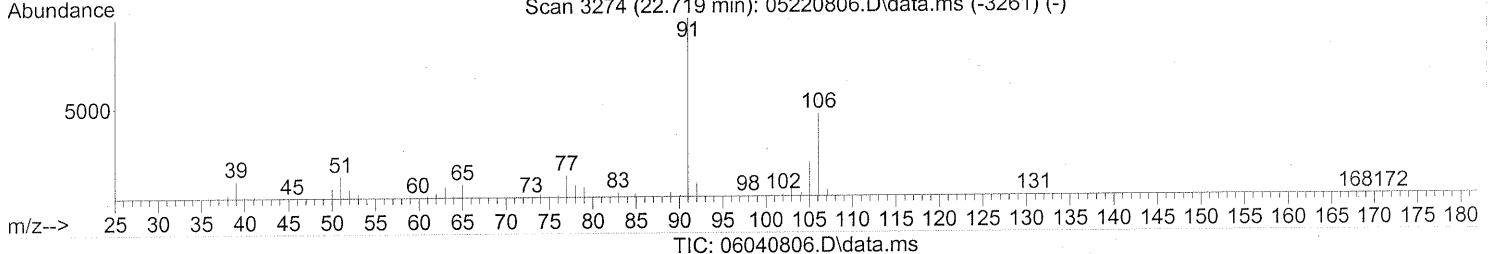
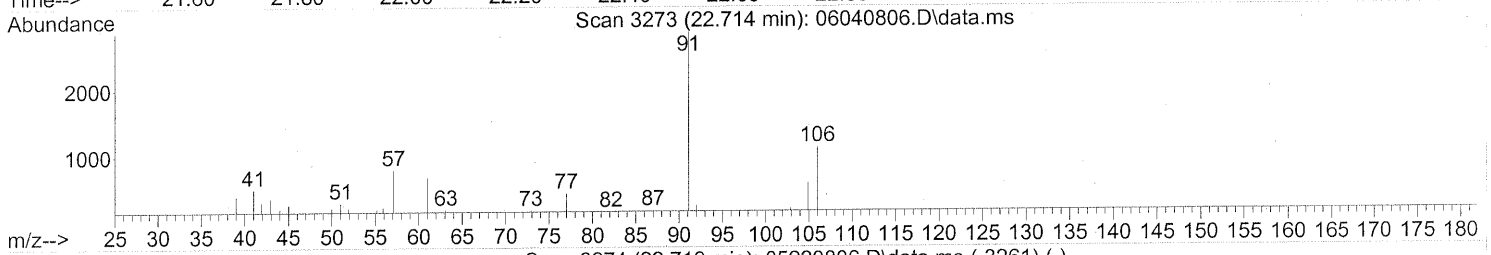
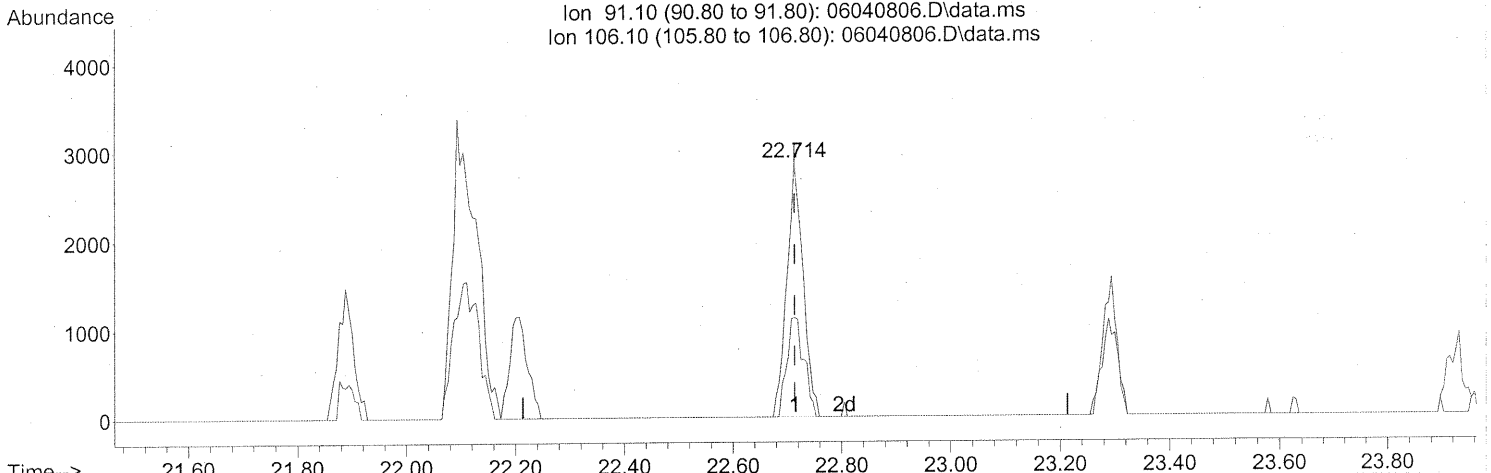
response 11567

| Ion | Exp% | Act% |
|--------|-------|-------|
| 172.80 | 100 | 100 |
| 174.80 | 49.40 | 48.43 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008_06\04\
Data File : 06040806.D
Acq On : 4 Jun 2008 11:50 am
Operator : RTB
Sample : P0801483-002 DUP (50mL)
Misc : ENSR SG78B-05 (-3.7, 3.5)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
Quant Method : J:\MS13\METHODS\R13052208.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu May 22 11:37:04 2008
Response via : Initial Calibration



(70) o-Xylene (T)

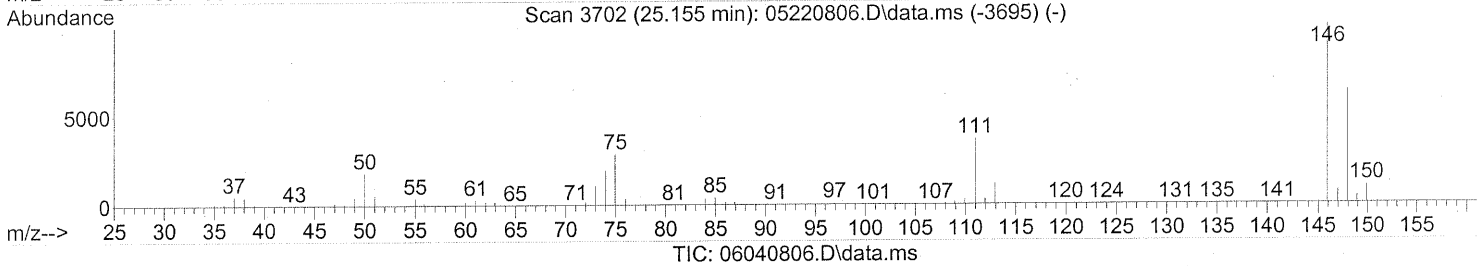
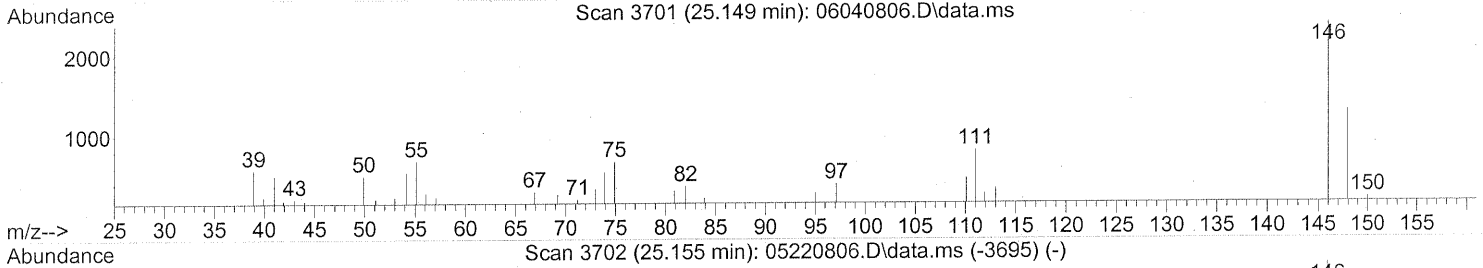
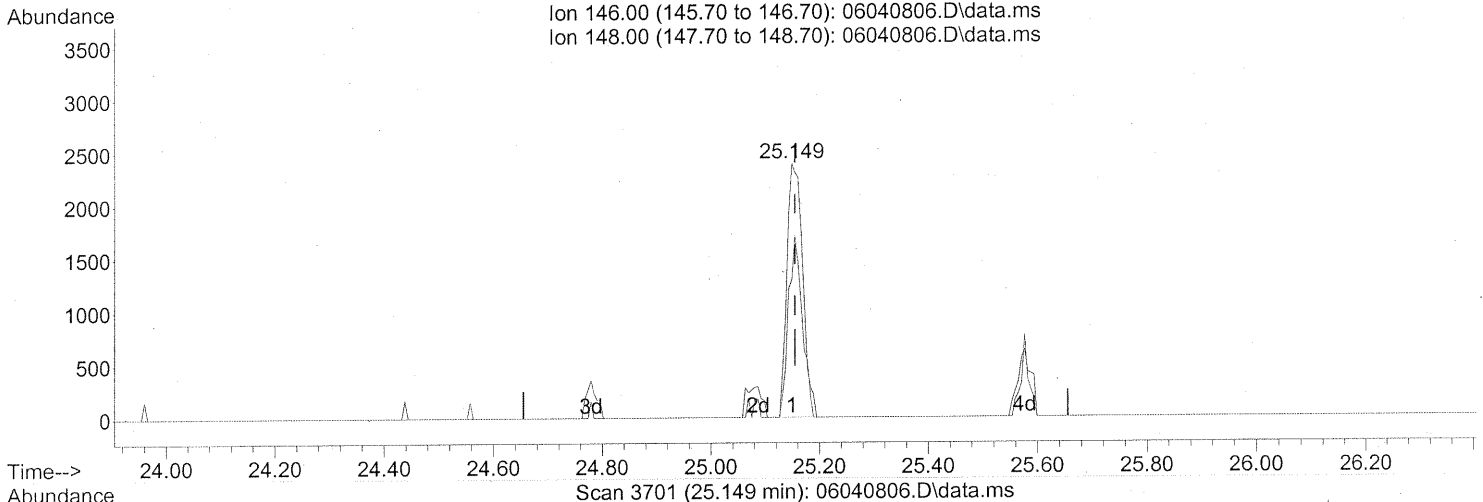
22.714min (-0.000) 0.09ng

response 5967

| Ion | Exp% | Act% |
|--------|-------|-------|
| 91.10 | 100 | 100 |
| 106.10 | 50.50 | 40.89 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 12:18:31 2008
 Quant Method : J:\MS13\METHODS\R13052208.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu May 22 11:37:04 2008
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

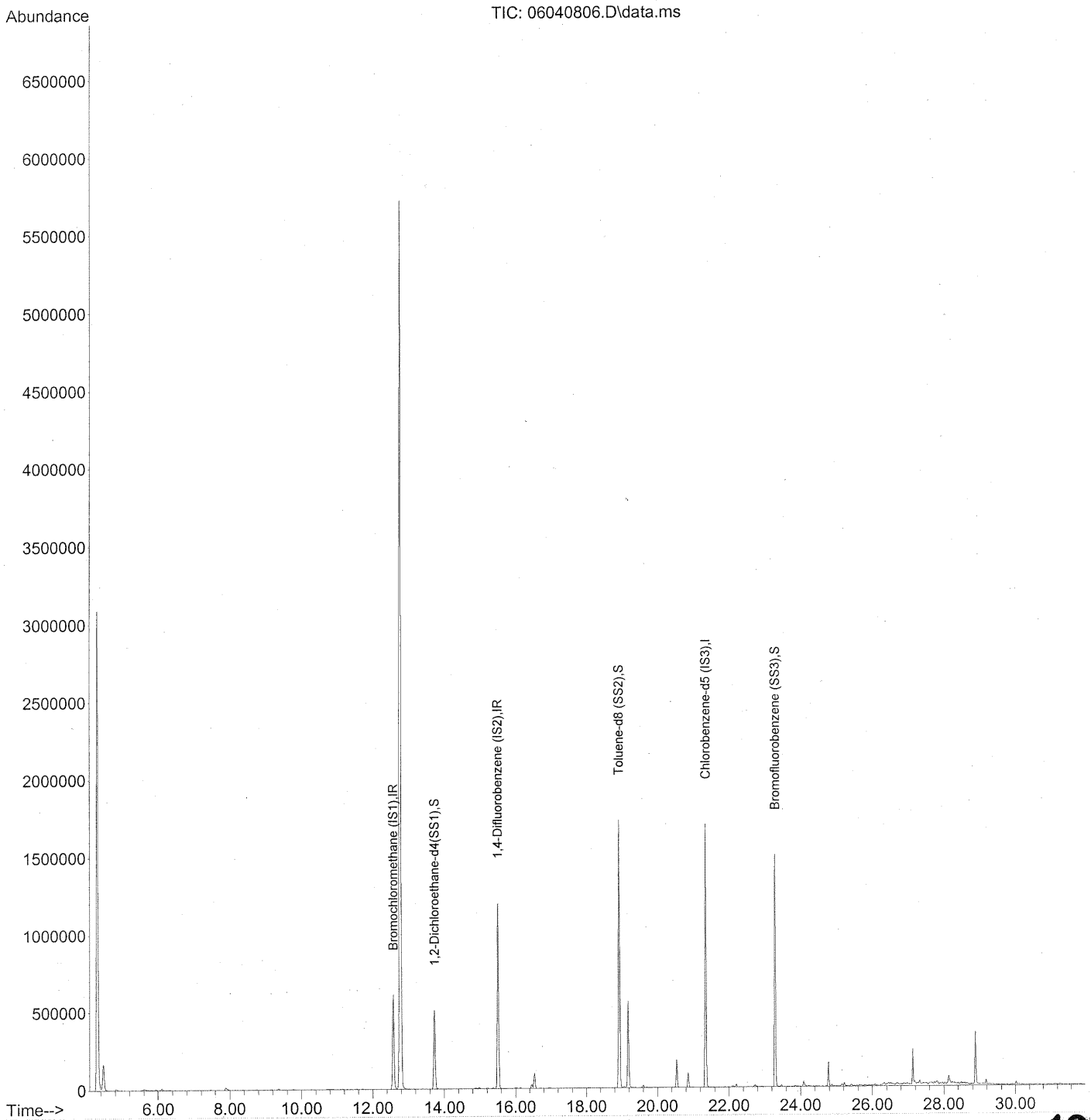
25.149min (-0.006) 0.10ng

response 4808

| Ion | Exp% | Act% |
|--------|-------|-------|
| 146.00 | 100 | 100 |
| 148.00 | 64.20 | 62.25 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 13:40:55 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008_06\04\
 Data File : 06040806.D
 Acq On : 4 Jun 2008 11:50 am
 Operator : RTB
 Sample : P0801483-002 DUP (50mL)
 Misc : ENSR SG78B-05 (-3.7, 3.5)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 13:40:55 2008
 Quant Method : J:\MS13\METHODS\S13052208.M
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
 QLast Update : Sun May 25 20:32:30 2008
 Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 1) Bromochloromethane (IS1) | 12.58 | 130 | 322340 | 25.000 | ng | -0.02 |
| 3) 1,4-Difluorobenzene (IS2) | 15.51 | 114 | 1400861 | 25.000 | ng | -0.02 |
| 4) Chlorobenzene-d5 (IS3) | 21.35 | 82 | 670342 | 25.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 2) 1,2-Dichloroethane-d4(...) | 13.72 | 65 | 519411 | 23.256 | ng | -0.03 |
| Spiked Amount | 25.000 | | Recovery | = | 93.04% | ✓ |
| 5) Toluene-d8 (SS2) | 18.92 | 98 | 1455953 | 24.184 | ng | -0.02 |
| Spiked Amount | 25.000 | | Recovery | = | 96.72% | ✓ |
| 6) Bromofluorobenzene (SS3) | 23.29 | 174 | 585102 | 23.900 | ng | 0.00 |
| Spiked Amount | 25.000 | | Recovery | = | 95.60% | ✓ |
| Target Compounds | | | | | | Qvalue |
| 7) tert-Butylbenzene | 24.88 | 119 | 705 | | N.D. | ✓ |
| 8) n-Butylbenzene | 25.91 | 91 | 1281 | | N.D. | ✓ |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

P.06/04/08