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Level IV Data Package

MWH Group 207230

Method: 314

Sample No.:

2706120332

2706120335

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 06-14-07 Analyst: Paja

QC'd by m Date 18 Jun 07

Instrument: IC11 Calculated MCT Level: 8155 umhos/cm

Batch # 2

Original IPC conductance: 3120 umhos/cm Daily IPC conductance: 3118 umhos/cm

Calibration including QCS

- QCS (20ppb) recovery is within 90% - 110% (18-22ppb) to verify that the calibration curve (minimum 5 points) still holds.
- Calibration curve is reanalyzed if QCS fails. Correlation Coefficient is 0.995 or better.

Initial QC Check Samples (MLBANK, MRL, ICCSCV, IPC) to be analyzed with every batch (up to 20 samples) or part thereof

MLBANK is analyzed before samples. Perchlorate, if present, is \leq half of the MRL.

~~N/A~~ L-C104 only: ICCSCV at 2ppb is within 50%-150% (1-3ppb)

C104 only: MRL at 4ppb is within 75%-125% (3-5ppb)

IPC (25ppb) recovery is between 80%-120% (20-30ppb)

IPC retention time is within 5% of the retention time of the standards

IPC Conductance level is within 10% of the original

$$PDA/H = 4.0\% \checkmark$$

LCS/LCSD (25ppb)

Recoveries are between 90%-110% (22.5 - 27.5ppb)

One pair is analyzed per batch (up to 20 samples) or part thereof

MS/MSD (25ppb) NOTE: For UCMR, MS/MSD concentrations alternate between 4ppb and 25ppb

Recoveries are within 80%-120% (20-30ppb) for 25ppb spike ~~N/A~~ (3.2-4.8ppb) for 4ppb spike

One pair is analyzed per batch (up to 20 samples) or part thereof

RPD between MS and MSD is within 15%.

Continuing Calibration Verification (MCV, HCV) NOTE: For UCMR ECV and MCV are required

Verification Checks alternate between mid- and high-level during the analysis (low- and mid-level for UCMR)

MCV (25ppb) recovery is between 85%-115% (21.25 - 28.75ppb)

HCV (100ppb) recovery is between 85%-115% (85-115ppb) ~~N/A~~ ECV (4ppb) recovery is between 75%-125% (3.0-5.0)

Pretreat and include the following QC parameters for any batch or part thereof containing samples requiring pretreatment

~~N/A~~ One Laboratory Reagent Blank (LRB). Perchlorate is \leq half of MRL.

~~N/A~~ One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.

~~N/A~~ One Pair of Laboratory Fortified Matrices (MS/MSD). Recoveries are between 80%-120%

Samples

All samples are analyzed within 28 days of collection.

All samples are analyzed within MCT Conductance limit.

QIR

~~N/A~~ QIR needed for failed QC

~~N/A~~ QIR needed for samples analyzed outside of hold time

TOTAL DISSOLVED SOLIDS (TDS) MW SOP REVISION 6
SM2540C

Analysis start date: 6/12/07 End: 6/12/07
Analyst: YLH
Reviewed By: *WJW*
IMS Check By: *WJW*
Nas QC Criteria Met: Y N
Nas QIR Needed: Y N
6/12/07

Standards:
NaCl MW# 58.4434
Na2SO4 MW# 142.0429
NaCl MW# 58.4434
True Value Exp. Date 11/12/07
175 mg/L 85-115
700 mg/L 85-115
10 mg/L 50-150

Oven Temp (180±2°C): Start 18.0 C End: C
Oven Mfr: Precision STM135 Ser no.: 11AW-6
Dry Time (hrs): +12

| Run # | Sample ID | Client Name | Date Collected | Sample Volume (ml) | Crucible Number | Crucible Weight (g) | Crucible + residue 1st wt. (g) | Crucible + residue 2nd wt. (g) | Residue B-A (g) | TDS (mg/L) | pH | EC | EC*0.6 | 2nd Weighing/Comments |
|-------|---------------------|--------------|----------------|--------------------|-----------------|---------------------|--------------------------------|--------------------------------|-----------------|------------|-----|-------|--------|-----------------------|
| 31k | Blank | N/A | N/A | 50 | AG | 66.9522 | 68.9523 | | | | N/A | N/A | N/A | |
| MRL | MRL 1 - 10 mg/L | N/A | N/A | 100 | IT | 71.6967 | 71.6975 | | | | N/A | N/A | N/A | |
| MRL | MRL 1 - 10 mg/L DUP | N/A | N/A | 100 | JX | 70.3004 | 70.3005 | | | | N/A | N/A | N/A | |
| CS | LCS 1 - 175 mg/L | N/A | N/A | 50 | ID | 77.3261 | 77.3243 | | | | N/A | N/A | N/A | |
| CS | LCS 2 - 700 mg/L | N/A | N/A | 50 | AA | 69.1445 | 69.1795 | 69.1793 | 0.0350 | 700 | N/A | N/A | N/A | 100% |
| 1 | 2106120118 | Extreme 244 | 6/11/07 | 15 | B23 | 78.2349 | 79.3324 | | | | 7 | 5344 | 3218 | |
| 2 | 118 | | | 25 | N2 | 66.4427 | 66.5364 | 66.53 | | | 7 | 5364 | 3218 | |
| 3 | 116 | | | 10 | 4T | 50.5991 | 50.6790 | 50.6763 | | | 7 | 4686 | 5212 | |
| 4 | 115 | | | 25 | J2 | 50.7489 | 50.8210 | | | | 7 | 4540 | 2748 | |
| 5 | 114 | | | | JK | 60.9311 | 61.0369 | | | | 7 | 6114 | 3665 | |
| 6 | 113 | | | | LC | 63.8214 | 63.9364 | | | | 7 | 7042 | 4225 | |
| 7 | 117 | | | | ME | 69.1403 | 69.2332 | 69.2332 | | | 7 | 5384 | 3230 | |
| 8 | 112 | | | | 014 | 74.5362 | 74.6033 | 74.6018 | | | 7 | 4128 | 2477 | |
| 9 | 111 | | | 10 | EP | 65.6153 | 65.7936 | | | | 7 | 4949 | 3949 | |
| 10 | 110 | | | 25 | 017 | 72.5597 | 72.6960 | 72.6932 | | | 7 | 7469 | 4481 | |
| 11 | 109 | | | | 10 | 79.4087 | 79.7456 | 79.7440 | | | 7 | 7791 | 4675 | |
| Dup | 109 | | | | PF | 67.1887 | 67.9366 | 67.9328 | | | 7 | 8271 | 4963 | |
| 12 | 108 | | | | 018 | 64.4619 | 64.6113 | 64. | | | 7 | 8271 | 4963 | |
| 13 | 107 | | | 5 | C | 71.2291 | 71.2787 | 71.27 | | | 7 | 14030 | 8418 | |
| 14 | 106 | | | 5 | ML | 52.1564 | 52.2118 | 52.2094 | | | 7 | 13920 | 8352 | |
| 15 | 105 | | | 10 | N2 | 50.6945 | 50.7709 | 50.7748 | | | 7 | 9949 | 5949 | |
| 16 | 104 | | | 10 | GA | 50.3747 | 50.4405 | 50.4381 | | | 7 | 8455 | 5033 | |
| 17 | 103 | | | 5 | TR | 52.2571 | 52.3609 | 52. | | | 7 | 12026 | 7242 | |
| 18 | 102 | | | 10 | LP | 69.6676 | 69.7158 | 69.7150 | | | 7 | 14520 | 8712 | |
| 19 | 001 | Core - Union | 6/10/07 | 50 | RL | 51.3004 | 51.3730 | | | | 7 | 4949 | 5949 | |
| 20 | 005 | | | 100 | E2 | 50.4346 | 50.4581 | | | | 6 | 724 | 434 | |
| | | | | | Q | 50.3164 | 50.2166 | | | | 5 | 16.14 | 10 | |

Est. EC*(0.55 - 0.7): expected TDS value
Min/Max Residue: 0.5mg - 200 mg

Drying Efficiency: % change = $\frac{Init - Fin}{Init} * 100$
< 4% or 0.5 mg

Recoveries: Blank - < 0.5mg
MRL - 50%-150%
LCS - 80%-114%
Duplicates - < 10% RPD

Holding time: 7 day from sampling date

Calculation:
TDS (mg/L) = $\frac{C-A}{B} * 1,000,000$
%RPD = $\frac{|S1-S2|}{(S1+S2)/2} * 100$

A = Crucible wt (g)
B = Sample Vol (ml)
C = Crucible-residue (g)
S1 = TDS of sample
S2 = TDS of duplicate

CONDUCTIVITY MW SOP REVISION 5
SM2510B

Analysis Date: 06-13-07
Analyst: Raja
Reviewed By: _____
LIMS Check By: _____
W3n 6/13/07
Was QC Criteria Met: Y N
Was QIR Needed: Y N

Time of Analyte Start: _____ End: _____
MRL 2umho/cm: R# _____ exp of solution: _____
KCl Std 1412 R# 301556 exp of solution 08/07
TV = 1412 umho/cm @ 25°C for 0.0100M
Reading: 1400
Instrument: YSI Model 3200 SN: Q1A6504 Year Acquired 2001 New

| Run # | Sample Number | Sample ID | Client | Date Collected | Temp °C | pH | Scale (umho/mho) | Result | | Comments |
|-------|--------------------|------------|-----------|----------------|---------|----|------------------|------------|--------------------|--------------------------|
| | | | | | | | | Instrument | Reported (umho/cm) | |
| | Blank | | | | | | | 0.586 | | |
| STD | MRL 2umho/cm | | | | | | | N/A | | |
| STD | KCl - 1000 mhos/cm | | | | | | | 985 | | 1-3 --- ±50% of TV |
| 1 | 2706120094 | EFF-comp | Kerridge | 06-09-07 | | | | 9534 | | 850-1050 --- ±5% of TV |
| 2 | 095 | Inf-comp | | ↓ | | | | 9429 | | |
| 3 | 329 | Stabilizer | | 06-11-07 | | | | 999 | | |
| 4 | 382 | Effluent | | | | | | 9605 | | |
| 5 | 335 | Influent | | | | | | 9572 | | |
| 6 | 2706110392 | GN-P1 | CDM/atand | | | | | 528 | | |
| 7 | 393 | ↓ -P2 | | | | | | 910 | | |
| 8 | 394 | GS-P3 | | | | | | 853 | | |
| 9 | 395 | ↓ -P1 | | | | | | 701 | | |
| 10 | 396 | ↓ -P2 | | | | | | 858 | | |
| DUP | ↓ ↓ | ↓ ↓ | | ↓ | | | | 864 | | RPD < 5% |
| 11 | 2706120607 | GN-P4 | | 06-12-07 | | | | 956 | | |
| 12 | 608 | GS-P5 | | | | | | 703 | | |
| 13 | 624 | GN-P6 | | | | | | 999 | | |
| 14 | 625 | ↓ P5 | | | | | | 906 | | |
| 15 | 627 | Dup | | | | | | 853 | | |
| 16 | 2706130230 | GS-P4 | | 06-13-07 | | | | 767 | | |
| 17 | 2706120582 | well-4 | Oceanside | 06-12-07 | | | | 2459 | | |
| 18 | 603 | well-5 | | | | | | 235 | | |
| 19 | 2706130374 | well-12 | Newhall | 06-13-07 | | | | 886 | | |
| 20 | 375 | ↓ 12 | | | | | | 790 | | |
| DUP | ↓ ↓ | ↓ ↓ | | ↓ | | | | 788 | | RPD < 5% |
| STD | KCl - 10 mhos/cm | | | | | | | N/A | | 8-12 --- RPD < 20% of TV |

$$\% RPD = \frac{|S1 - S2|}{(S1 + S2)/2} * 100$$

S1 = reading of 1st sample
S2 = reading of 2nd sample

| Sample No. | Sample Name | Dil.Fac. | Comment | Time | Amount | CLO4 CD_1 |
|------------|--------------------|----------|--------------|----------------|--------------|------------|
| 1 | wash | 1.0 | | 06.12.07 11:48 | | n.a. |
| 2 | autocal1 | 1.0 | | 06.12.07 12:11 | | n.a. |
| 3 | autocal2 | 1.0 | RAJA060913-2 | 06.12.07 12:33 | 1.8127 | |
| 4 | autocal3 | 1.0 | RAJA060913-3 | 06.12.07 12:56 | 4.2553 | |
| 5 | autocal4 | 1.0 | RAJA060913-4 | 06.12.07 13:18 | 9.4659 | |
| 6 | autocal5 | 1.0 | RAJA060913-5 | 06.12.07 13:40 | 25.1687 | |
| 7 | autocal6 | 1.0 | RAJA060913-6 | 06.12.07 14:03 | 50.0374 | |
| 8 | autocal7 | 1.0 | RAJA060913-7 | 06.12.07 14:25 | 99.9859 | |
| 9 | wash | 1.0 | | 06.13.07 11:09 | | n.a. |
| 10 | QCS | 1.0 | | 06.13.07 11:32 | 19.5130 | 97.6% |
| 11 | IPC | 1.0 | | 06.13.07 11:54 | 24.8625 | 99.5% |
| 12 | MBLK | 1.0 | | 06.13.07 12:16 | ✓ n.a. | |
| 13 | MRL-2 | 1.0 | | 06.13.07 12:39 | 1.9130 | 95.7% |
| 14 | MRL-4 | 1.0 | | 06.13.07 13:01 | ✓4.0061 | 100% |
| 15 | LCS1 | 1.0 | | 06.13.07 13:24 | ✓23.6683 | 92.9% |
| 16 | LCS2 | 1.0 | | 06.13.07 13:46 | ✓23.2319 | 92.9% |
| 17 | 2706120102_1/5 | 5.0 | | 06.13.07 14:08 | ✓122.6139 | |
| 18 | 2706120103_1/5000 | 5000.0 | | 06.13.07 14:31 | ✓94505.6350 | |
| 19 | 2706120104_1/10000 | 10000.0 | | 06.13.07 14:53 | ✓316692.1232 | |
| 20 | 2706120105_1/10000 | 10000.0 | | 06.13.07 15:16 | ✓312230.0013 | |
| 21 | 2706120106_1/5000 | 5000.0 | | 06.13.07 15:38 | ✓75280.1466 | |
| 22 | 2706120107_1/5000 | 5000.0 | | 06.13.07 16:00 | ✓131516.4234 | |
| 23 | 2706120108_1/10000 | 10000.0 | | 06.13.07 16:23 | ✓253552.2843 | |
| 24 | 2706120108MS | 1.0 | | 06.13.07 16:45 | ✓49.6006 | 24.2-96.8% |
| 25 | 2706120108MSD | 1.0 | | 06.13.07 17:08 | ✓48.4243 | 23.1-92.5% |
| 26 | 2706120109_1/500 | 500.0 | | 06.13.07 17:30 | ✓19249.9787 | |
| 27 | 2706120110_1/500 | 500.0 | | 06.13.07 17:52 | ✓17476.1903 | |
| 28 | 2706120111_1/500 | 500.0 | | 06.13.07 18:15 | ✓12938.8500 | |
| 29 | CCV | 1.0 | | 06.13.07 18:37 | 25.6143 | 102% |
| 30 | 2706120112_1/5 | 5.0 | | 06.13.07 19:00 | ✓ n.a. | |
| 31 | 2706120113_1/200 | 200.0 | | 06.13.07 19:22 | ✓3549.6731 | |
| 32 | 2706120114_1/200 | 200.0 | | 06.13.07 19:44 | ✓11306.7544 | |
| 33 | 2706120115_1/200 | 200.0 | | 06.13.07 20:07 | ✓7943.2774 | |
| 34 | 2706120116_1/100 | 100.0 | | 06.13.07 20:29 | ✓2070.0228 | |
| 35 | 2706120117_1/100 | 100.0 | | 06.13.07 20:52 | ✓1046.4843 | |
| 36 | 2706120118_1/100 | 100.0 | | 06.13.07 21:14 | ✓5567.6274 | |
| 37 | 2706120119_1/5000 | 5000.0 | | 06.13.07 21:36 | ✓310351.9945 | |
| 38 | 2706120094_1/5 | 5.0 | | 06.13.07 21:59 | n.a. | ✓ |
| 39 | 2706120095_1/5000 | 5000.0 | | 06.13.07 22:21 | 251525.9327 | ✓ |
| 40 | HCV | 1.0 | | 06.13.07 22:44 | 97.7010 | 97.7% |
| 41 | wash | 1.0 | | 06.13.07 23:06 | | n.a. |
| 42 | QCS | 1.0 | | 06.13.07 23:28 | 20.0427 | 100% |
| 43 | IPC | 1.0 | | 06.13.07 23:51 | 22.0770 | 88.3% |
| 44 | MBLK | 1.0 | | 06.14.07 00:13 | ✓ n.a. | |

| | | | | | |
|----|--------------------|---------|----------------|---------------|------------|
| 45 | MRL-2 | 1.0 | 06.14.07 00:36 | 1.7792 | 89.0% |
| 46 | MRL-4 | 1.0 | 06.14.07 00:58 | ✓4.1293 | 103% |
| 47 | LCS1 | 1.0 | 06.14.07 01:20 | ✓24.3751 | 97.5% |
| 48 | LCS2 | 1.0 | 06.14.07 01:43 | ✓23.7133 | 94.9% |
| 49 | 2706080312_1/50000 | 50000.0 | 06.14.07 02:05 | 2986459.2057 | ✓ |
| 50 | 2706080374_1/50000 | 50000.0 | 06.14.07 02:28 | 4116352.5889 | ✓ |
| 51 | 2706110392 | 1.0 | 06.14.07 02:50 | n.a. | ✓ |
| 52 | 2706110393 | 1.0 | 06.14.07 03:12 | 3.0492 | ✓ |
| 53 | 2706110394 | 1.0 | 06.14.07 03:35 | n.a. | ✓ |
| 54 | 2706110395 | 1.0 | 06.14.07 03:57 | n.a. | ✓ |
| 55 | 2706110396_1/5 | 5.0 | 06.14.07 04:20 | n.a. | ✓ |
| 56 | 2706120329 | 1.0 | 06.14.07 04:42 | ✓ 6.1717 | |
| 57 | 2706120329MS | 1.0 | 06.14.07 05:04 | ✓30.9065 | 24.7-98.9% |
| 58 | 2706120329MSD | 1.0 | 06.14.07 05:27 | ✓30.4701 | 24.3-97.2% |
| 59 | 2706120332_1/5 | 5.0 | 06.14.07 05:49 | ✓ n.a. | |
| 60 | 2706120335_1/5000 | 5000.0 | 06.14.07 06:12 | ✓ 258875.2966 | |
| 61 | CCV | 1.0 | 06.14.07 06:34 | 25.5891 | 102% |
| 62 | 2706120607_1/5 | 5.0 | 06.14.07 06:56 | ✓ n.a. | |
| 63 | 2706120608_1/5 | 5.0 | 06.14.07 07:19 | ✓ n.a. | |
| 64 | 2706120624 | 1.0 | 06.14.07 07:41 | ✓ 3.7006 n.a. | |
| 65 | 2706120625_1/5-DNR | 5.0 | 06.14.07 08:03 | ✓ 30.3221 | |
| 66 | 2706120627_1/5 | 5.0 | 06.14.07 08:26 | ✓ n.a. | |
| 67 | 2706120582_1/2 | 2.0 | 06.14.07 08:48 | ✓ n.a. | |
| 68 | 2706120603_1/2 | 2.0 | 06.14.07 09:11 | ✓ n.a. | |
| 69 | 2706130230 | 1.0 | 06.14.07 09:33 | ✓ n.a. | |
| 70 | 2706130374 | 1.0 | 06.14.07 09:56 | ✓ n.a. | |
| 71 | 2706130375 | 1.0 | 06.14.07 10:18 | ✓ n.a. | |
| 72 | HCV | 1.0 | 06.14.07 10:40 | 99.7629 | 99.8% |

Sequence: 061307-CLO4-IC11
Operator: raja

Page 1 of 4
Printed: 6/14/2007 3:38:52 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC1C11_CLO4\2007JUNE
Timebase: IC11
#Samples: 72

Created: 6/13/2007 11:07:58 AM by raja
Last Update: 6/14/2007 3:37:47 PM by raja

| No. | Name | Dil. Factor | Type | Comment | Status | Program |
|-----|--------------------|-------------|----------|--------------|----------|------------------|
| 1 | wash | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 2 | autocal1 | 1.0000 | Standard | | Finished | Perchlorate-IC11 |
| 3 | autocal2 | 1.0000 | Standard | RAJA060913-2 | Finished | Perchlorate-IC11 |
| 4 | autocal3 | 1.0000 | Standard | RAJA060913-3 | Finished | Perchlorate-IC11 |
| 5 | autocal4 | 1.0000 | Standard | RAJA060913-4 | Finished | Perchlorate-IC11 |
| 6 | autocal5 | 1.0000 | Standard | RAJA060913-5 | Finished | Perchlorate-IC11 |
| 7 | autocal6 | 1.0000 | Standard | RAJA060913-6 | Finished | Perchlorate-IC11 |
| 8 | autocal7 | 1.0000 | Standard | RAJA060913-7 | Finished | Perchlorate-IC11 |
| 9 | wash | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 10 | QCS | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 11 | IPC | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 12 | MBLK | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 13 | MRL-2 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 14 | MRL-4 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 15 | LCS1 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 16 | LCS2 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 17 | 2706120102_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 18 | 2706120103_1/5000 | 5000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 19 | 2706120104_1/10000 | 10000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 20 | 2706120105_1/10000 | 10000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 21 | 2706120106_1/5000 | 5000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 22 | 2706120107_1/5000 | 5000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 23 | 2706120108_1/10000 | 10000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 24 | 2706120108MS | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 25 | 2706120108MSD | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 26 | 2706120109_1/500 | 500.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 27 | 2706120110_1/500 | 500.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 28 | 2706120111_1/500 | 500.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 29 | CCV | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 30 | 2706120112_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 31 | 2706120113_1/200 | 200.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 32 | 2706120114_1/200 | 200.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 33 | 2706120115_1/200 | 200.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 34 | 2706120116_1/100 | 100.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 35 | 2706120117_1/100 | 100.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 36 | 2706120118_1/100 | 100.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 37 | 2706120119_1/5000 | 5000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 38 | 2706120094_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 39 | 2706120095_1/5000 | 5000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 40 | HCV | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 41 | wash | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 42 | QCS | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |

Sequence: 061307-CLO4-IC11
Operator: raja

Page 2 of 4
Printed: 6/14/2007 3:38:53 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC1C11_CLO4\2007\JUNE
Timebase: IC11
#Samples: 72

Created: 6/13/2007 11:07:58 AM by raja
Last Update: 6/14/2007 3:37:47 PM by raja

| No. | Name | Method | Inj. Date/Time | *Analyst |
|-----|--------------------|---------------|-----------------------|----------|
| 1 | wash | IC#4-CLO4-LOW | 6/12/2007 11:48:58 AM | Raja |
| 2 | autocal1 | IC#4-CLO4-LOW | 6/12/2007 12:11:22 PM | Raja |
| 3 | autocal2 | IC#4-CLO4-LOW | 6/12/2007 12:33:46 PM | Raja |
| 4 | autocal3 | IC#4-CLO4-LOW | 6/12/2007 12:56:10 PM | Raja |
| 5 | autocal4 | IC#4-CLO4-LOW | 6/12/2007 1:18:34 PM | Raja |
| 6 | autocal5 | IC#4-CLO4-LOW | 6/12/2007 1:40:57 PM | Raja |
| 7 | autocal6 | IC#4-CLO4-LOW | 6/12/2007 2:03:21 PM | Raja |
| 8 | autocal7 | IC#4-CLO4-LOW | 6/12/2007 2:25:45 PM | Raja |
| 9 | wash | IC#4-CLO4-LOW | 6/13/2007 11:09:44 AM | Raja |
| 10 | QCS | IC#4-CLO4-LOW | 6/13/2007 11:32:07 AM | Raja |
| 11 | IPC | IC#4-CLO4-LOW | 6/13/2007 11:54:31 AM | Raja |
| 12 | MBLK | IC#4-CLO4-LOW | 6/13/2007 12:16:55 PM | Raja |
| 13 | MRL-2 | IC#4-CLO4-LOW | 6/13/2007 12:39:19 PM | Raja |
| 14 | MRL-4 | IC#4-CLO4-LOW | 6/13/2007 1:01:43 PM | Raja |
| 15 | LCS1 | IC#4-CLO4-LOW | 6/13/2007 1:24:07 PM | Raja |
| 16 | LCS2 | IC#4-CLO4-LOW | 6/13/2007 1:46:31 PM | Raja |
| 17 | 2706120102_1/5 | IC#4-CLO4-LOW | 6/13/2007 2:08:55 PM | Raja |
| 18 | 2706120103_1/5000 | IC#4-CLO4-LOW | 6/13/2007 2:31:18 PM | Raja |
| 19 | 2706120104_1/10000 | IC#4-CLO4-LOW | 6/13/2007 2:53:42 PM | Raja |
| 20 | 2706120105_1/10000 | IC#4-CLO4-LOW | 6/13/2007 3:16:06 PM | Raja |
| 21 | 2706120106_1/5000 | IC#4-CLO4-LOW | 6/13/2007 3:38:30 PM | Raja |
| 22 | 2706120107_1/5000 | IC#4-CLO4-LOW | 6/13/2007 4:00:54 PM | Raja |
| 23 | 2706120108_1/10000 | IC#4-CLO4-LOW | 6/13/2007 4:23:18 PM | Raja |
| 24 | 2706120108MS | IC#4-CLO4-LOW | 6/13/2007 4:45:41 PM | Raja |
| 25 | 2706120108MSD | IC#4-CLO4-LOW | 6/13/2007 5:08:05 PM | Raja |
| 26 | 2706120109_1/500 | IC#4-CLO4-LOW | 6/13/2007 5:30:29 PM | Raja |
| 27 | 2706120110_1/500 | IC#4-CLO4-LOW | 6/13/2007 5:52:53 PM | Raja |
| 28 | 2706120111_1/500 | IC#4-CLO4-LOW | 6/13/2007 6:15:17 PM | Raja |
| 29 | CCV | IC#4-CLO4-LOW | 6/13/2007 6:37:41 PM | Raja |
| 30 | 2706120112_1/5 | IC#4-CLO4-LOW | 6/13/2007 7:00:04 PM | Raja |
| 31 | 2706120113_1/200 | IC#4-CLO4-LOW | 6/13/2007 7:22:28 PM | Raja |
| 32 | 2706120114_1/200 | IC#4-CLO4-LOW | 6/13/2007 7:44:52 PM | Raja |
| 33 | 2706120115_1/200 | IC#4-CLO4-LOW | 6/13/2007 8:07:16 PM | Raja |
| 34 | 2706120116_1/100 | IC#4-CLO4-LOW | 6/13/2007 8:29:40 PM | Raja |
| 35 | 2706120117_1/100 | IC#4-CLO4-LOW | 6/13/2007 8:52:04 PM | Raja |
| 36 | 2706120118_1/100 | IC#4-CLO4-LOW | 6/13/2007 9:14:27 PM | Raja |
| 37 | 2706120119_1/5000 | IC#4-CLO4-LOW | 6/13/2007 9:36:51 PM | Raja |
| 38 | 2706120094_1/5 | IC#4-CLO4-LOW | 6/13/2007 9:59:15 PM | Raja |
| 39 | 2706120095_1/5000 | IC#4-CLO4-LOW | 6/13/2007 10:21:39 PM | Raja |
| 40 | HCV | IC#4-CLO4-LOW | 6/13/2007 10:44:03 PM | Raja |
| 41 | wash | IC#4-CLO4-LOW | 6/13/2007 11:06:27 PM | Raja |
| 42 | QCS | IC#4-CLO4-LOW | 6/13/2007 11:28:51 PM | Raja |

Sequence: 061307-CLO4-IC11

Operator: raja

Page 3 of 4

Printed: 6/14/2007 3:38:53 PM

Title:

Datasource: Dionex_USPAS2SDIO2

Location: IC\IC11_CLO4\2007JUNE

Timebase: IC11

#Samples: 72

Created: 6/13/2007 11:07:58 AM by raja

Last Update: 6/14/2007 3:37:47 PM by raja

| No. | Name | Dil. Factor | Type | Comment | Status | Program |
|-----|--------------------|-------------|---------|---------|----------|------------------|
| 43 | IPC | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 44 | MBLK | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 45 | MRL-2 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 46 | MRL-4 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 47 | LCS1 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 48 | LCS2 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 49 | 2706080312_1/50000 | 50000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 50 | 2706080374_1/50000 | 50000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 51 | 2706110392 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 52 | 2706110393 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 53 | 2706110394 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 54 | 2706110395 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 55 | 2706110396_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 56 | 2706120329 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 57 | 2706120329MS | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 58 | 2706120329MSD | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 59 | 2706120332_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 60 | 2706120335_1/5000 | 5000.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 61 | CCV | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 62 | 2706120607_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 63 | 2706120608_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 64 | 2706120624 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 65 | 2706120625_1/5-DNR | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 66 | 2706120627_1/5 | 5.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 67 | 2706120582_1/2 | 2.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 68 | 2706120603_1/2 | 2.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 69 | 2706130230 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 70 | 2706130374 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 71 | 2706130375 | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |
| 72 | HCV | 1.0000 | Unknown | | Finished | Perchlorate-IC11 |

Sequence: 061307-CLO4-IC11
Operator: raja

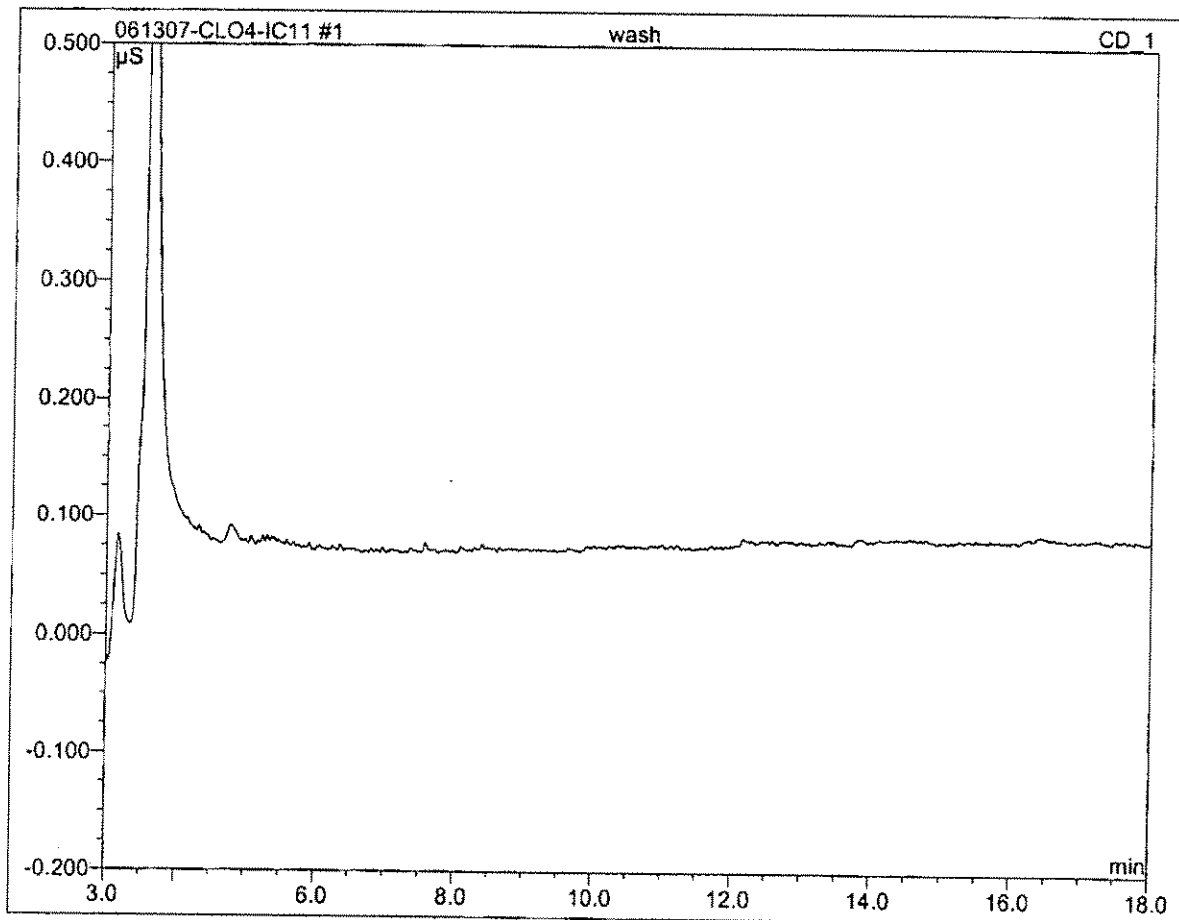
Page 4 of 4
Printed: 6/14/2007 3:38:53 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC11_CLO4\2007JUNE
Timebase: IC11
#Samples: 72

Created: 6/13/2007 11:07:58 AM by raja
Last Update: 6/14/2007 3:37:47 PM by raja

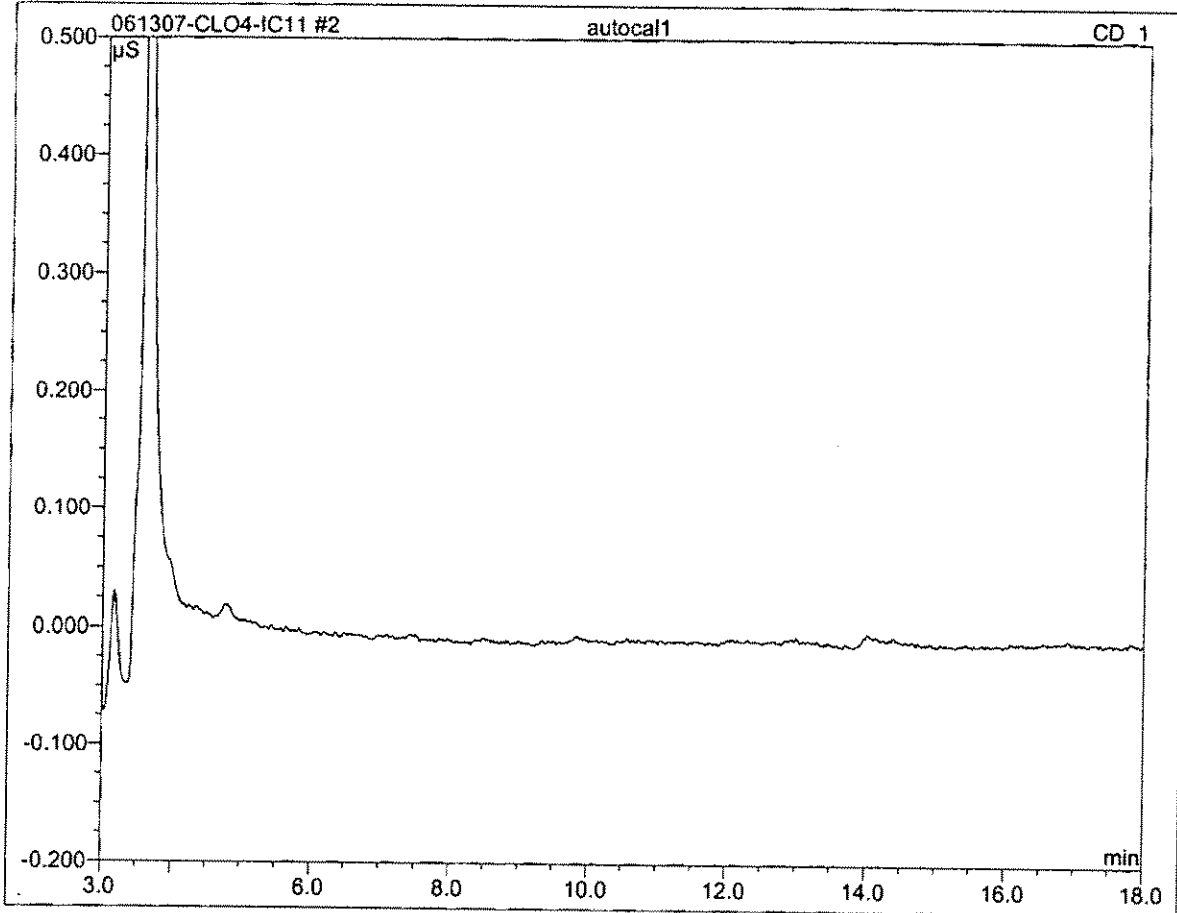
| No. | Name | Method | Inj. Date/Time | *Analyst |
|-----|--------------------|---------------|-----------------------|----------|
| 43 | IPC | IC#4-CLO4-LOW | 6/13/2007 11:51:14 PM | Raja |
| 44 | MBLK | IC#4-CLO4-LOW | 6/14/2007 12:13:38 AM | Raja |
| 45 | MRL-2 | IC#4-CLO4-LOW | 6/14/2007 12:36:02 AM | Raja |
| 46 | MRL-4 | IC#4-CLO4-LOW | 6/14/2007 12:58:26 AM | Raja |
| 47 | LCS1 | IC#4-CLO4-LOW | 6/14/2007 1:20:50 AM | Raja |
| 48 | LCS2 | IC#4-CLO4-LOW | 6/14/2007 1:43:14 AM | Raja |
| 49 | 2706080312_1/50000 | IC#4-CLO4-LOW | 6/14/2007 2:05:38 AM | Raja |
| 50 | 2706080374_1/50000 | IC#4-CLO4-LOW | 6/14/2007 2:28:02 AM | Raja |
| 51 | 2706110392 | IC#4-CLO4-LOW | 6/14/2007 2:50:25 AM | Raja |
| 52 | 2706110393 | IC#4-CLO4-LOW | 6/14/2007 3:12:49 AM | Raja |
| 53 | 2706110394 | IC#4-CLO4-LOW | 6/14/2007 3:35:13 AM | Raja |
| 54 | 2706110395 | IC#4-CLO4-LOW | 6/14/2007 3:57:37 AM | Raja |
| 55 | 2706110396_1/5 | IC#4-CLO4-LOW | 6/14/2007 4:20:01 AM | Raja |
| 56 | 2706120329 | IC#4-CLO4-LOW | 6/14/2007 4:42:25 AM | Raja |
| 57 | 2706120329MS | IC#4-CLO4-LOW | 6/14/2007 5:04:49 AM | Raja |
| 58 | 2706120329MSD | IC#4-CLO4-LOW | 6/14/2007 5:27:12 AM | Raja |
| 59 | 2706120332_1/5 | IC#4-CLO4-LOW | 6/14/2007 5:49:36 AM | Raja |
| 60 | 2706120335_1/5000 | IC#4-CLO4-LOW | 6/14/2007 6:12:00 AM | Raja |
| 61 | CCV | IC#4-CLO4-LOW | 6/14/2007 6:34:24 AM | Raja |
| 62 | 2706120607_1/5 | IC#4-CLO4-LOW | 6/14/2007 6:56:48 AM | Raja |
| 63 | 2706120608_1/5 | IC#4-CLO4-LOW | 6/14/2007 7:19:12 AM | Raja |
| 64 | 2706120624 | IC#4-CLO4-LOW | 6/14/2007 7:41:35 AM | Raja |
| 65 | 2706120625_1/5-DNR | IC#4-CLO4-LOW | 6/14/2007 8:03:59 AM | Raja |
| 66 | 2706120627_1/5 | IC#4-CLO4-LOW | 6/14/2007 8:26:23 AM | Raja |
| 67 | 2706120582_1/2 | IC#4-CLO4-LOW | 6/14/2007 8:48:47 AM | Raja |
| 68 | 2706120603_1/2 | IC#4-CLO4-LOW | 6/14/2007 9:11:11 AM | Raja |
| 69 | 2706130230 | IC#4-CLO4-LOW | 6/14/2007 9:33:35 AM | Raja |
| 70 | 2706130374 | IC#4-CLO4-LOW | 6/14/2007 9:56:08 AM | Raja |
| 71 | 2706130375 | IC#4-CLO4-LOW | 6/14/2007 10:18:32 AM | Raja |
| 72 | HCV | IC#4-CLO4-LOW | 6/14/2007 10:40:56 AM | Raja |

| | | | |
|-----------------|------------------|------------------|------------------|
| 1 wash | | | |
| Sample Name: | wash | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 11:48 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



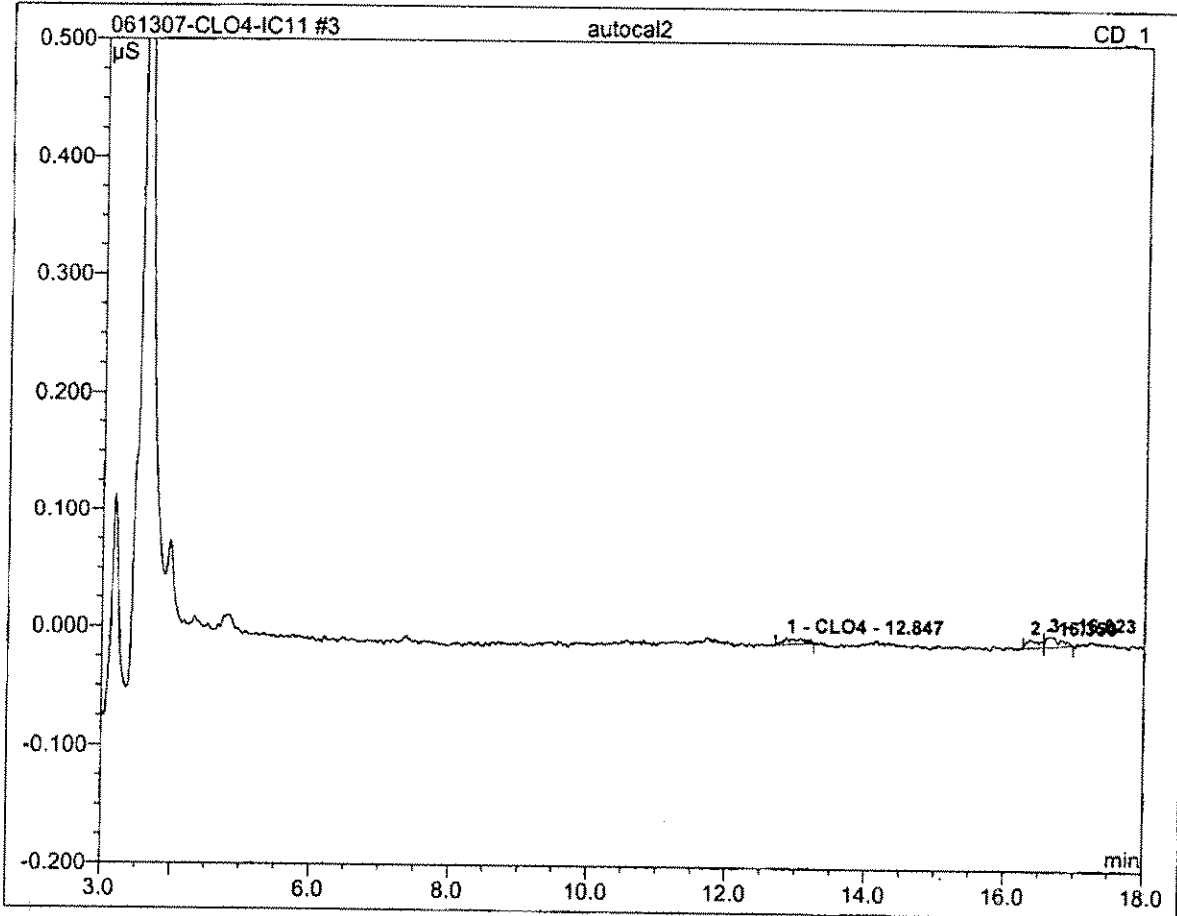
| No. | Ret.Time min | Peak Name | Height μ S | Area μ S*min | Rel.Area % | Amount | Type |
|--------|-----------------|-----------|-------------------|---------------------|---------------|--------|------|
| Total: | | | 0.000 | 0.000 | 0.00 | 0.000 | |

| | | | |
|-------------------|------------------|------------------|------------------|
| 2 autocal1 | | | |
| Sample Name: | autocal1 | Channel: | CD_1 |
| Sample Type: | standard | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 12:11 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



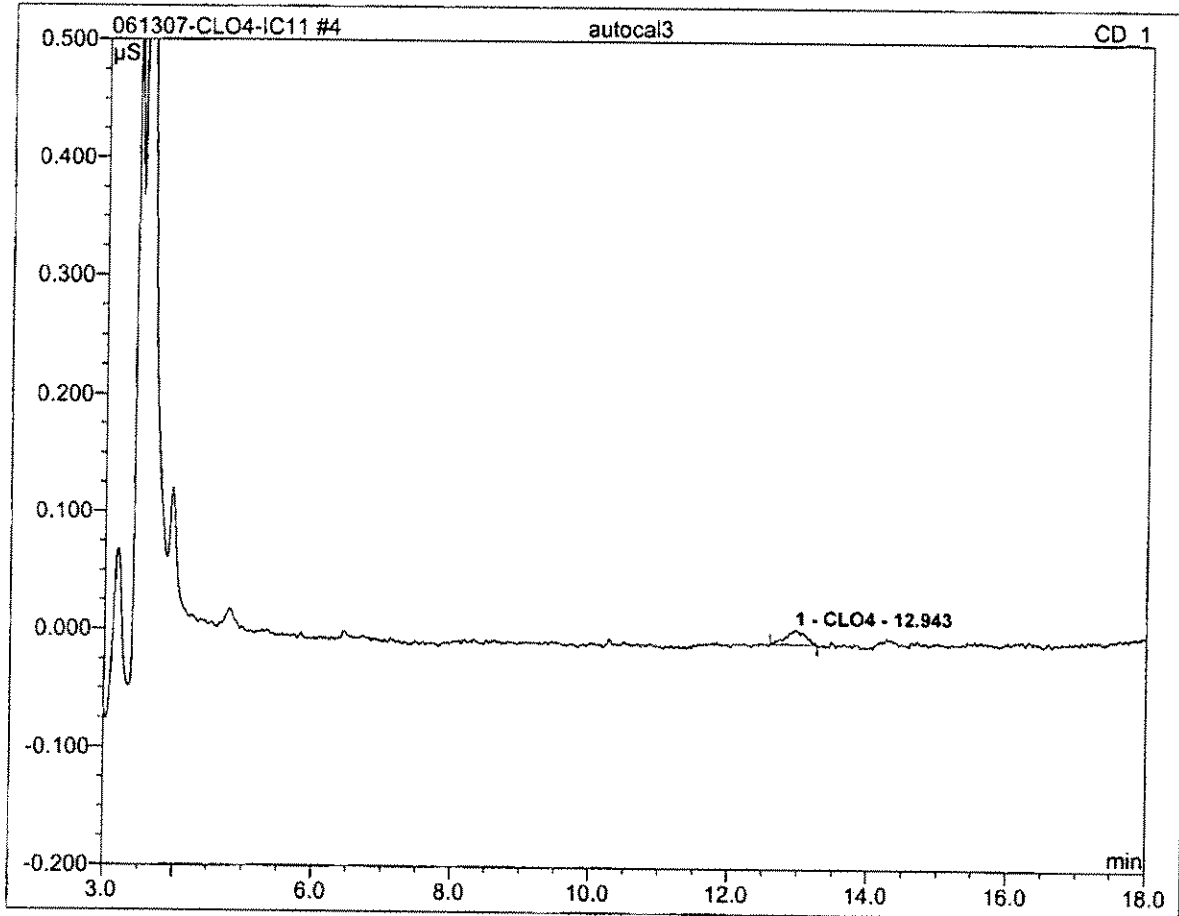
| No. | Ret.Time min | Peak Name | Height μ S | Area μ S*min | Rel.Area % | Amount | Type |
|--------|-----------------|-----------|-------------------|---------------------|---------------|--------|------|
| Total: | | | 0.000 | 0.000 | 0.00 | 0.000 | |

| | | | |
|---------------------|------------------|------------------|------------------|
| 3 autocal2 | | | |
| RAJA060913-2 | | | |
| Sample Name: | autocal2 | Channel: | CD_1 |
| Sample Type: | standard | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 12:33 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



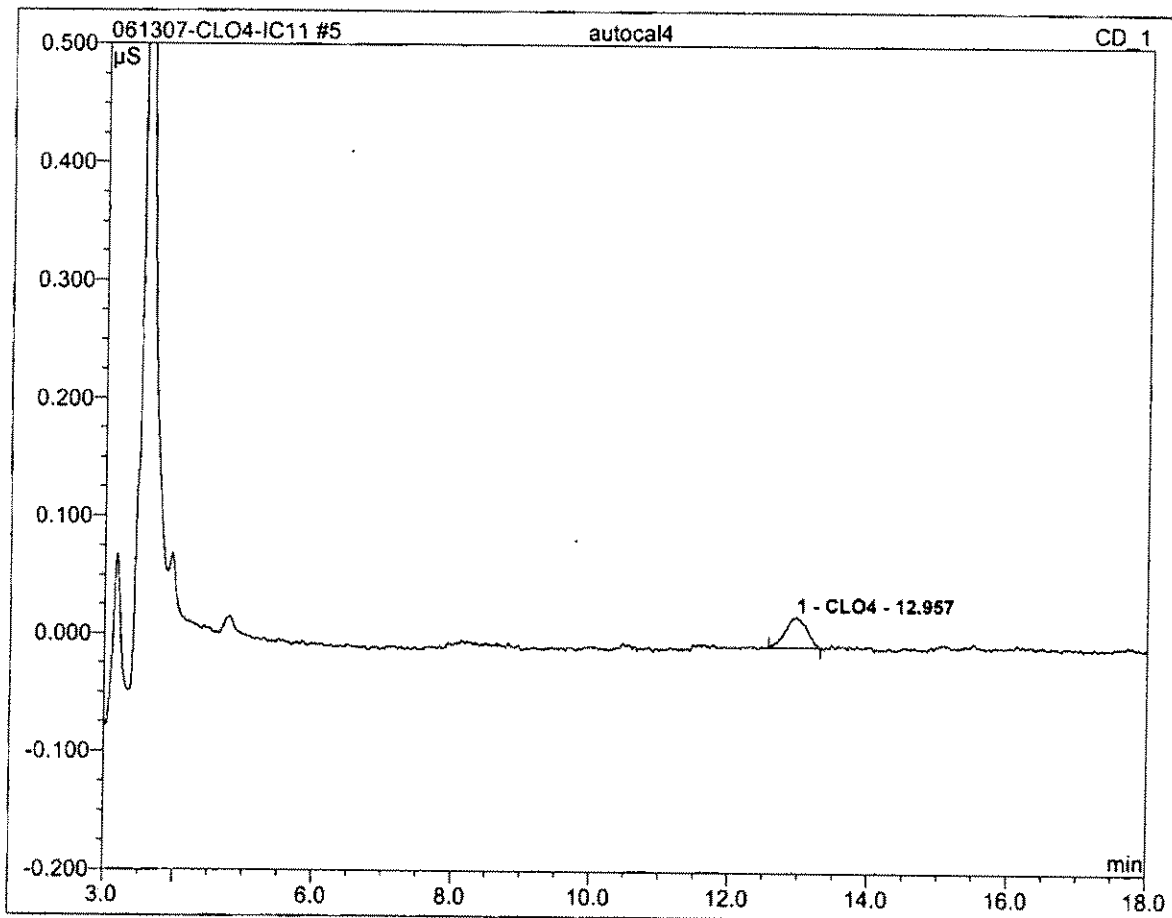
| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.85 | CLO4 | 0.005 | 0.002 | 30.98 | 1.813 | BMB |
| Total: | | | 0.005 | 0.002 | 30.98 | 1.813 | |

| | | | |
|---------------------|------------------|------------------|------------------|
| 4 autocal3 | | | |
| RAJA060913-3 | | | |
| Sample Name: | autocal3 | Channel: | CD_1 |
| Sample Type: | standard | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 12:56 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



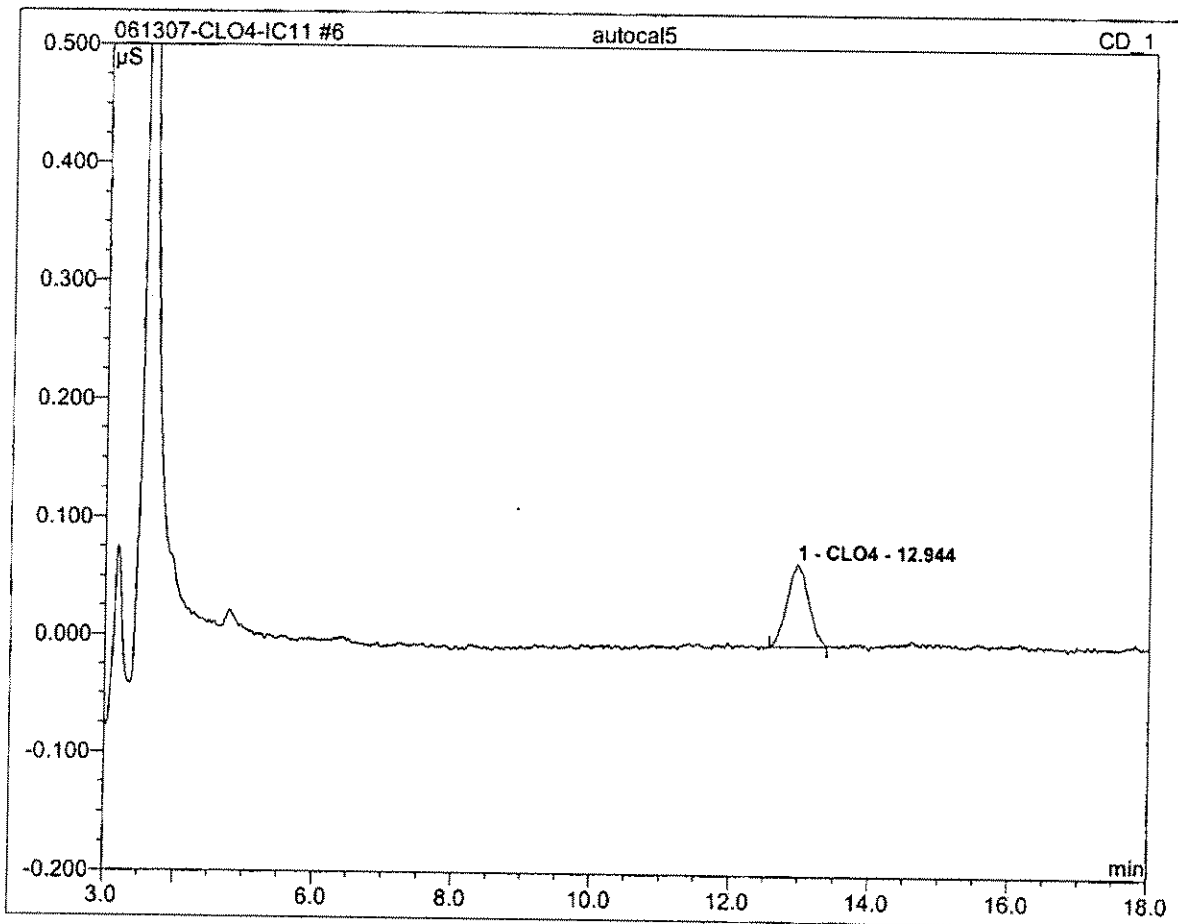
| No. | Ret.Time min | Peak Name | Height μ S | Area μ S*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|-------------------|---------------------|---------------|--------|------|
| 1 | 12.94 | CLO4 | 0.012 | 0.004 | 100.00 | 4.255 | BMB |
| Total: | | | 0.012 | 0.004 | 100.00 | 4.255 | |

| | | | |
|---------------------|------------------|------------------|------------------|
| 5 autocal4 | | | |
| RAJA060913-4 | | | |
| Sample Name: | autocal4 | Channel: | CD_1 |
| Sample Type: | standard | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 13:18 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



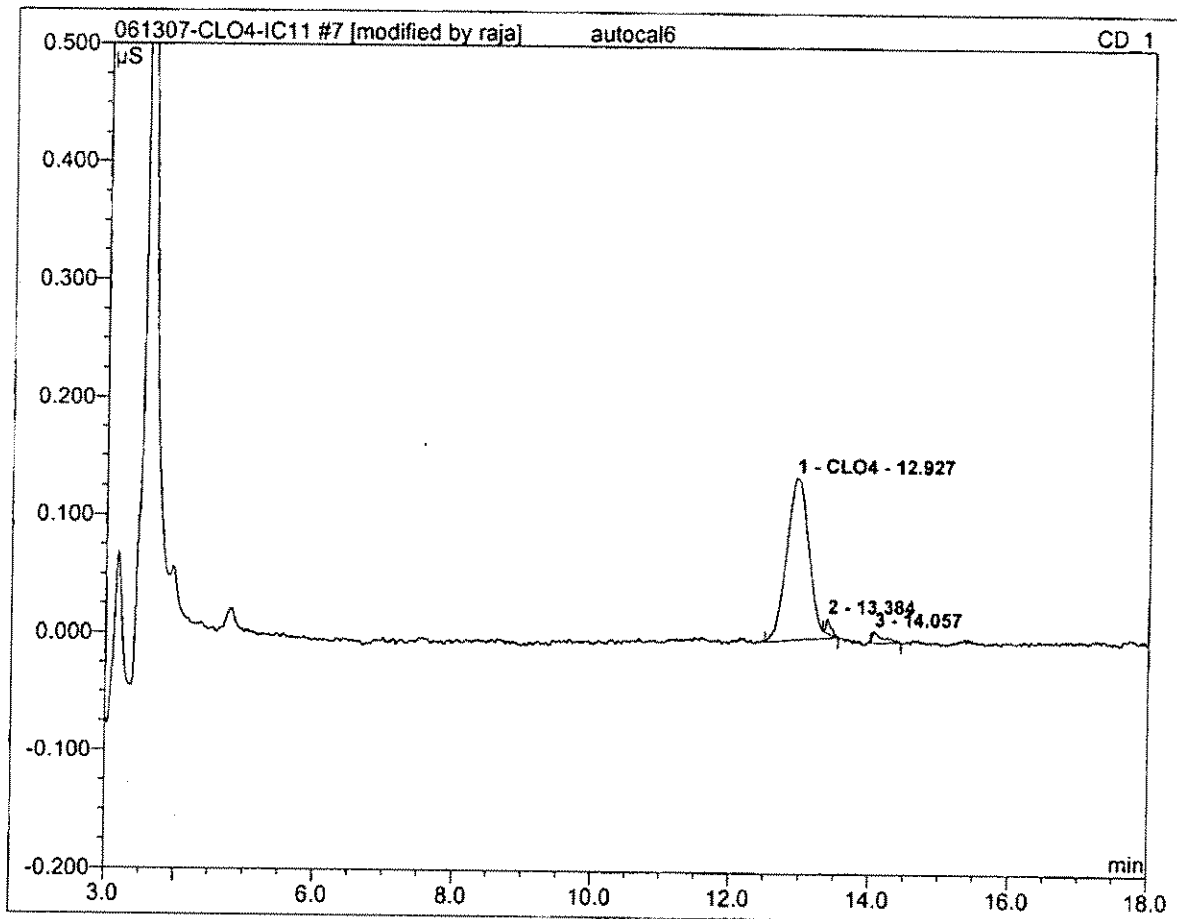
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.96 | CLO4 | 0.026 | 0.009 | 100.00 | 9.466 | BMB |
| Total: | | | 0.026 | 0.009 | 100.00 | 9.466 | |

| | | | |
|---------------------|------------------|------------------|------------------|
| 6 autocal5 | | | |
| RAJA060913-5 | | | |
| Sample Name: | autocal5 | Channel: | CD_1 |
| Sample Type: | standard | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 13:40 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



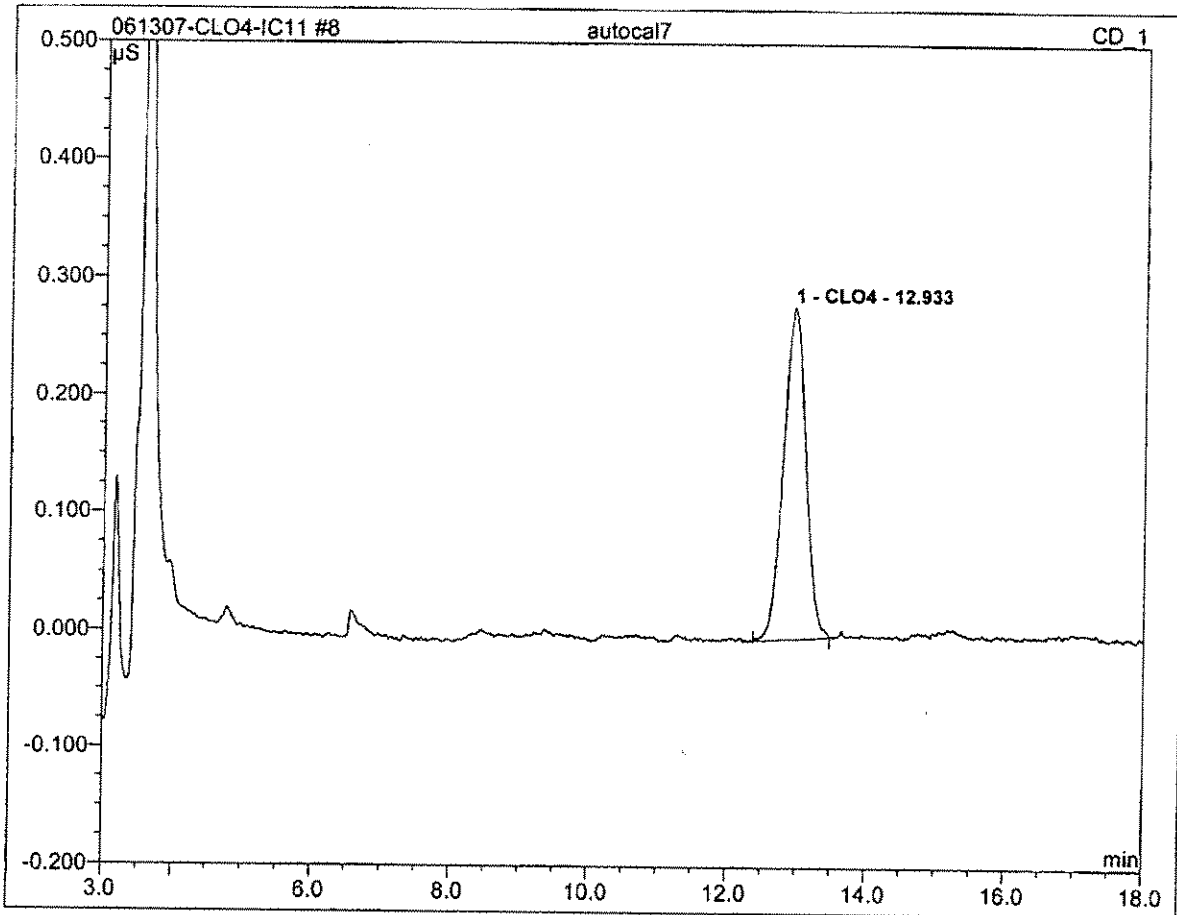
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.94 | CLO4 | 0.070 | 0.025 | 100.00 | 25.169 | BMB |
| Total: | | | 0.070 | 0.025 | 100.00 | 25.169 | |

| | | | |
|---------------------|------------------|------------------|------------------|
| 7 autocal6 | | | |
| RAJA060913-6 | | | |
| Sample Name: | autocal6 | Channel: | CD_1 |
| Sample Type: | standard | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 14:03 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



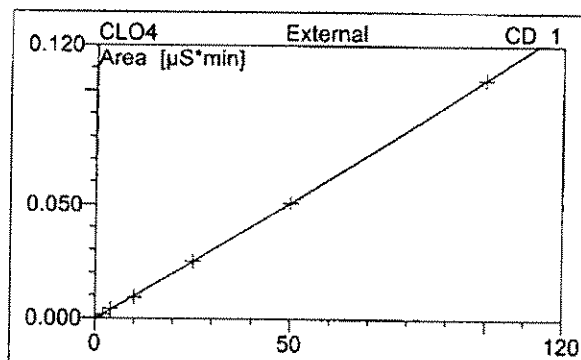
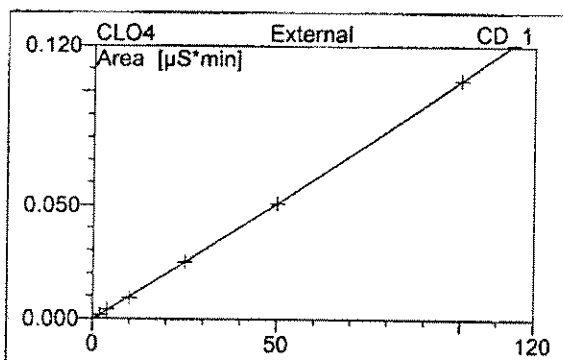
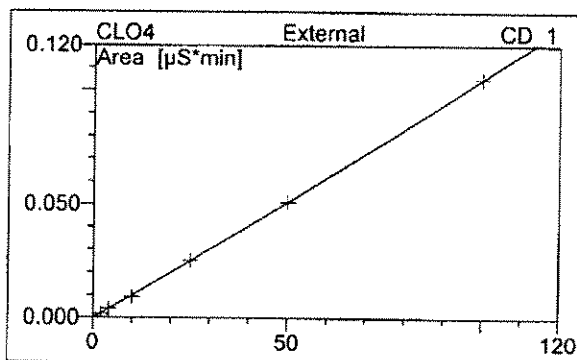
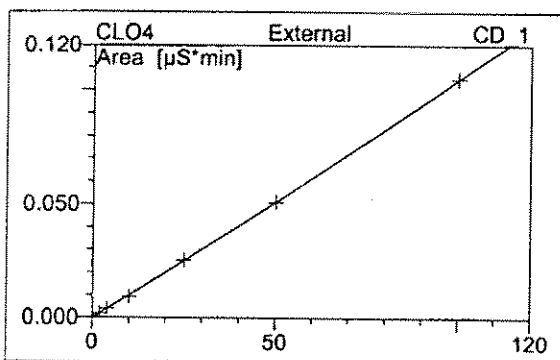
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.93 | CLO4 | 0.137 | 0.051 | 94.89 | 50.037 | BMB* |
| Total: | | | 0.137 | 0.051 | 94.89 | 50.037 | |

| | | | |
|---------------------|------------------|------------------|------------------|
| 8 autocal7 | | | |
| RAJA060913-7 | | | |
| Sample Name: | autocal7 | Channel: | CD_1 |
| Sample Type: | standard | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/12/2007 14:25 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



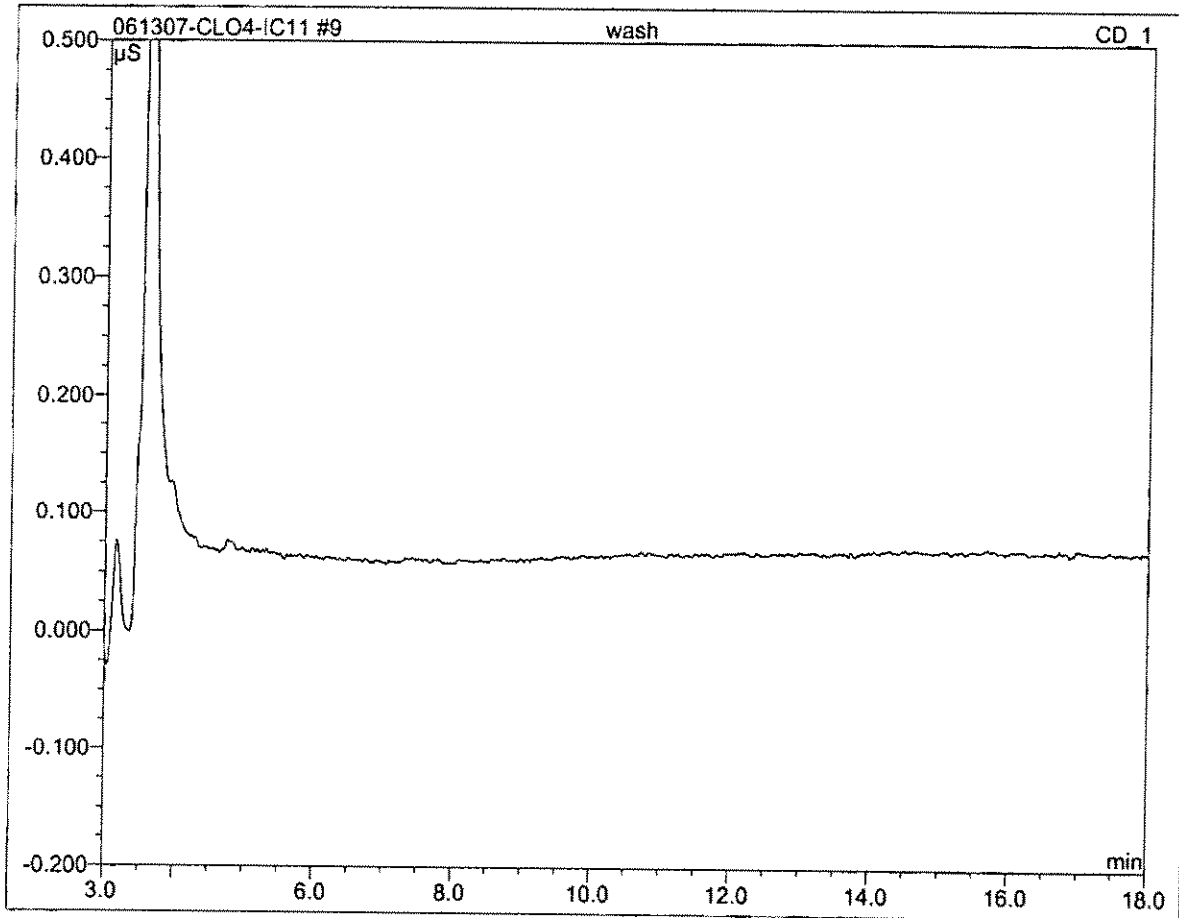
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.93 | CLO4 | 0.283 | 0.105 | 100.00 | 99.986 | BMB |
| Total: | | | 0.283 | 0.105 | 100.00 | 99.986 | |

| | |
|---------------------|------------------|
| 8 autocal7 | |
| RAJA060913-7 | |
| Sample Name: | autocal7 |
| Vial Number: | 109 |
| Sample Type: | standard |
| Control Program: | Perchlorate-IC11 |
| Quantif. Method: | IC#4-CLO4-LOW |
| Recording Time: | 6/12/2007 14:25 |
| Run Time (min): | 20.00 |
| Injection Volume: | 20.0 |
| Channel: | CD_1 |
| Wavelength: | n.a. |
| Bandwidth: | n.a. |
| Dilution Factor: | 1.0000 |
| Sample Weight: | 1.0000 |
| Sample Amount: | 1.0000 |



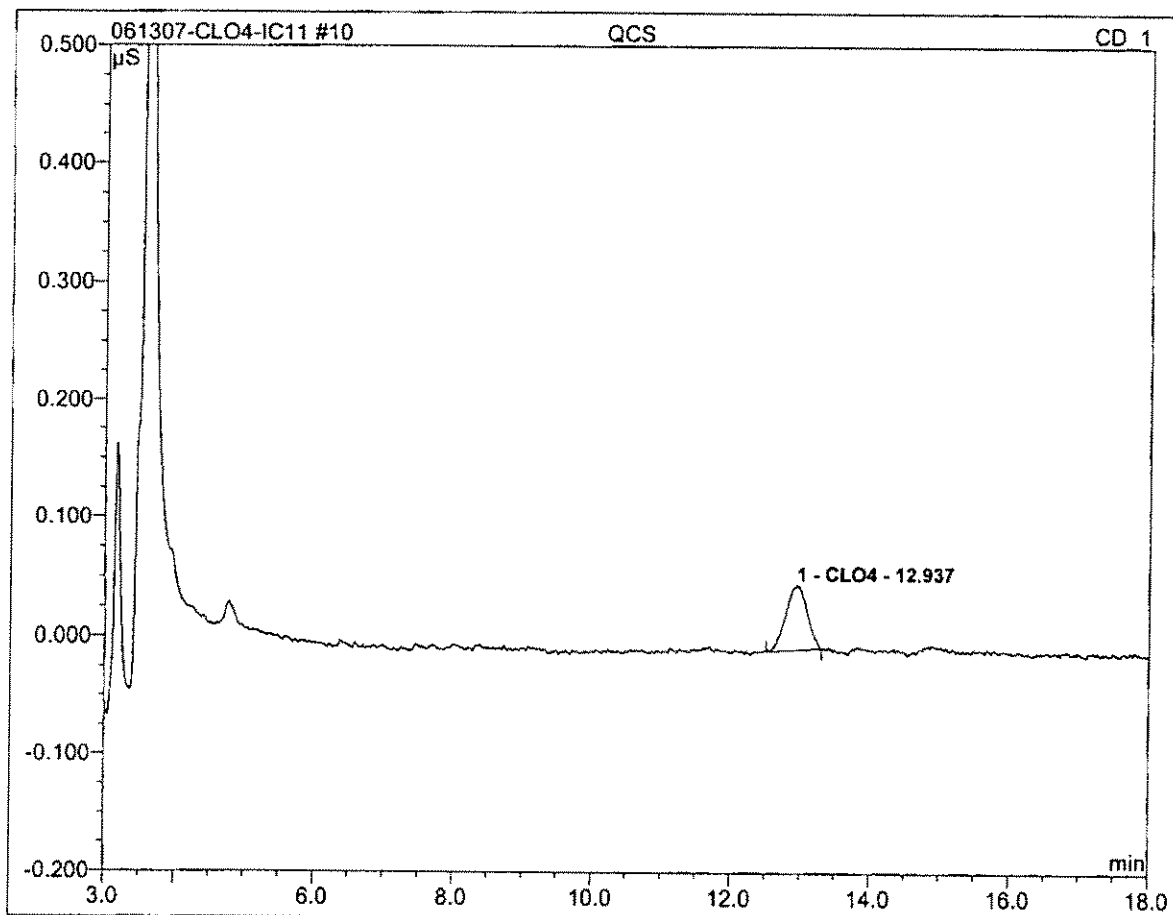
| No. | Ret.Time min | Peak Name | Cal.Type | Points | Corr.Coeff. % | Offset | Slope | Curve |
|-----------------|-----------------|-----------|----------|--------|------------------|---------|--------|--------|
| 1 | 12.93 | CLO4 | 0QOff | 6 | 99.9890 | -0.0003 | 0.0010 | 0.0000 |
| Average: | | | | | 99.9890 | -0.0003 | 0.0010 | 0.0000 |

| | | | |
|-----------------|------------------|------------------|------------------|
| 9 wash | | | |
| Sample Name: | wash | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/13/2007 11:09 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



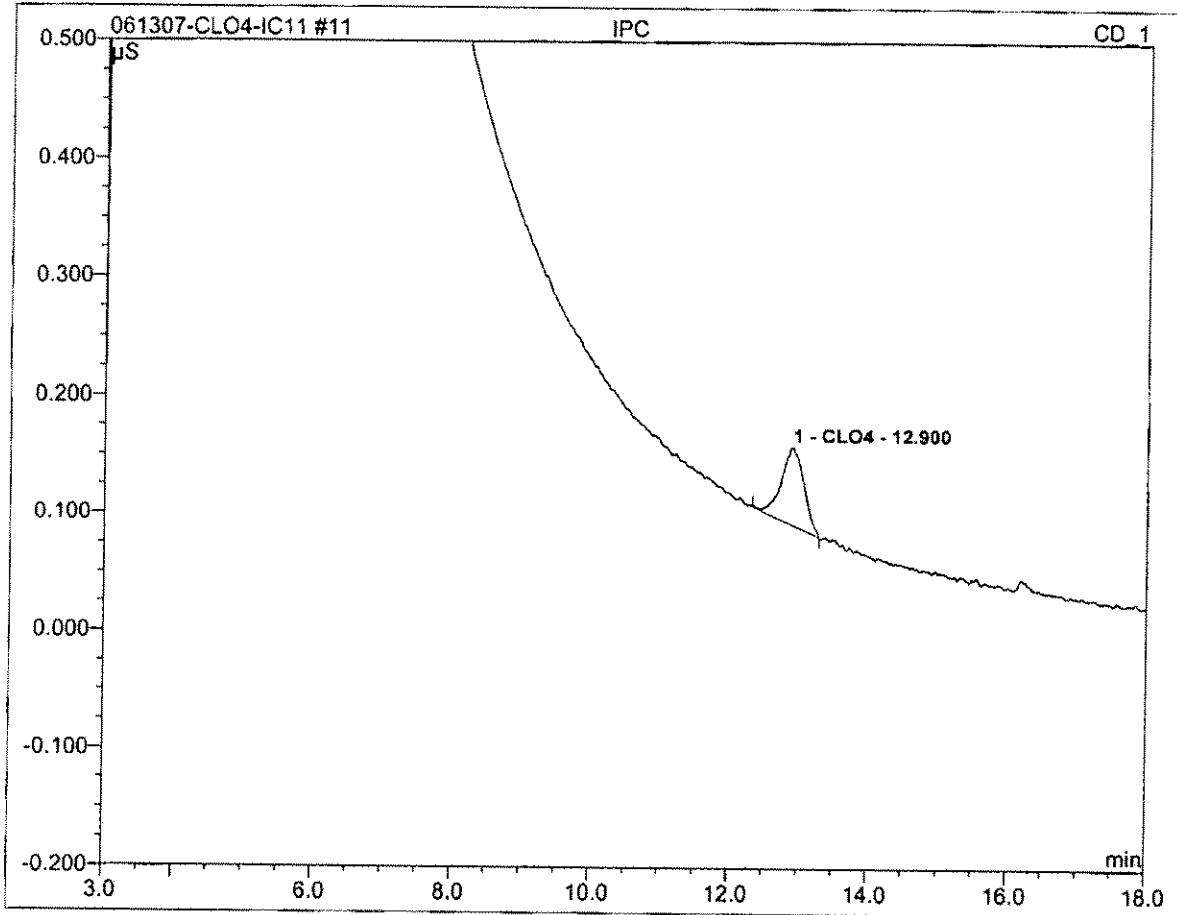
| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|--------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: | | | 0.000 | 0.000 | 0.00 | 0.000 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 10 QCS | | | |
| Sample Name: | QCS | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/13/2007 11:32 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



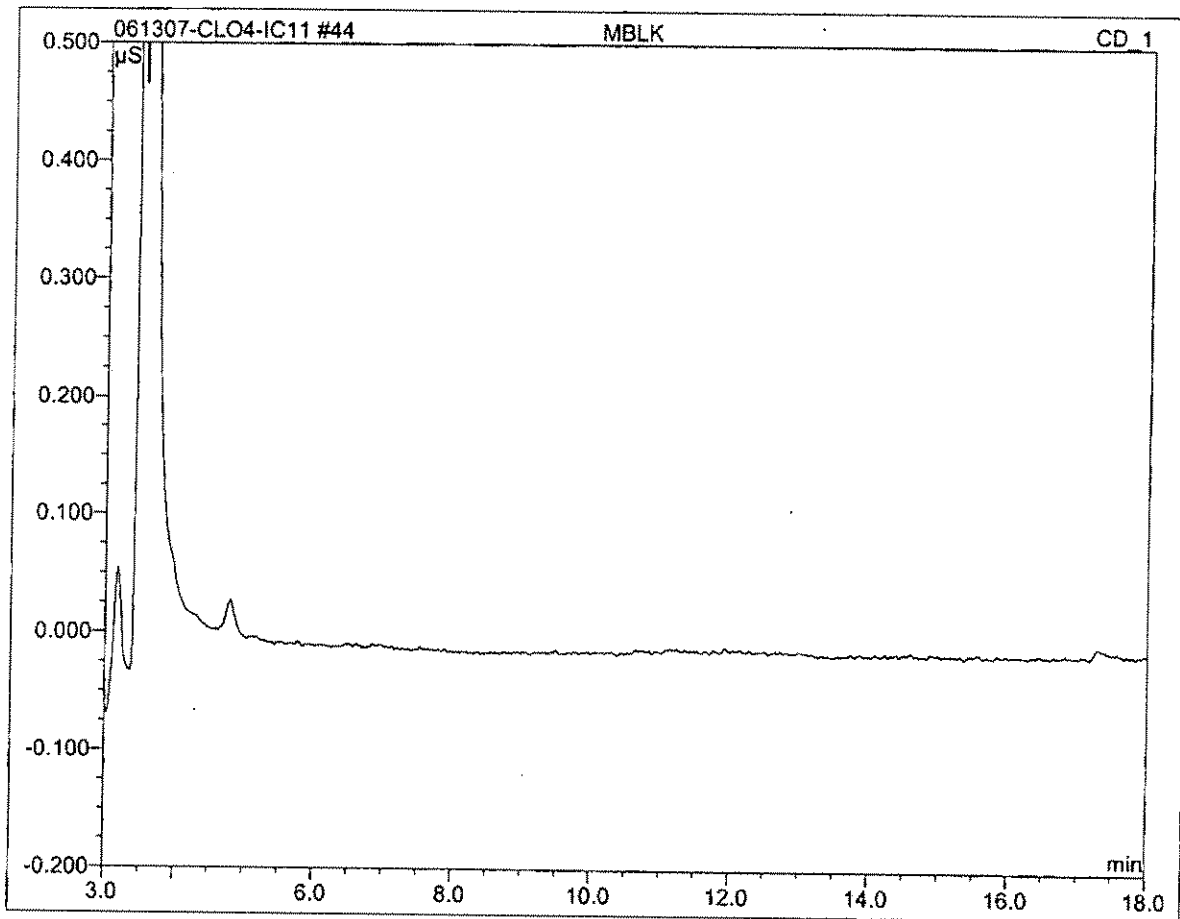
| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.94 | CLO4 | 0.054 | 0.019 | 100.00 | 19.513 | BMB |
| Total: | | | 0.054 | 0.019 | 100.00 | 19.513 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 11 IPC | | | |
| Sample Name: | IPC | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/13/2007 11:54 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



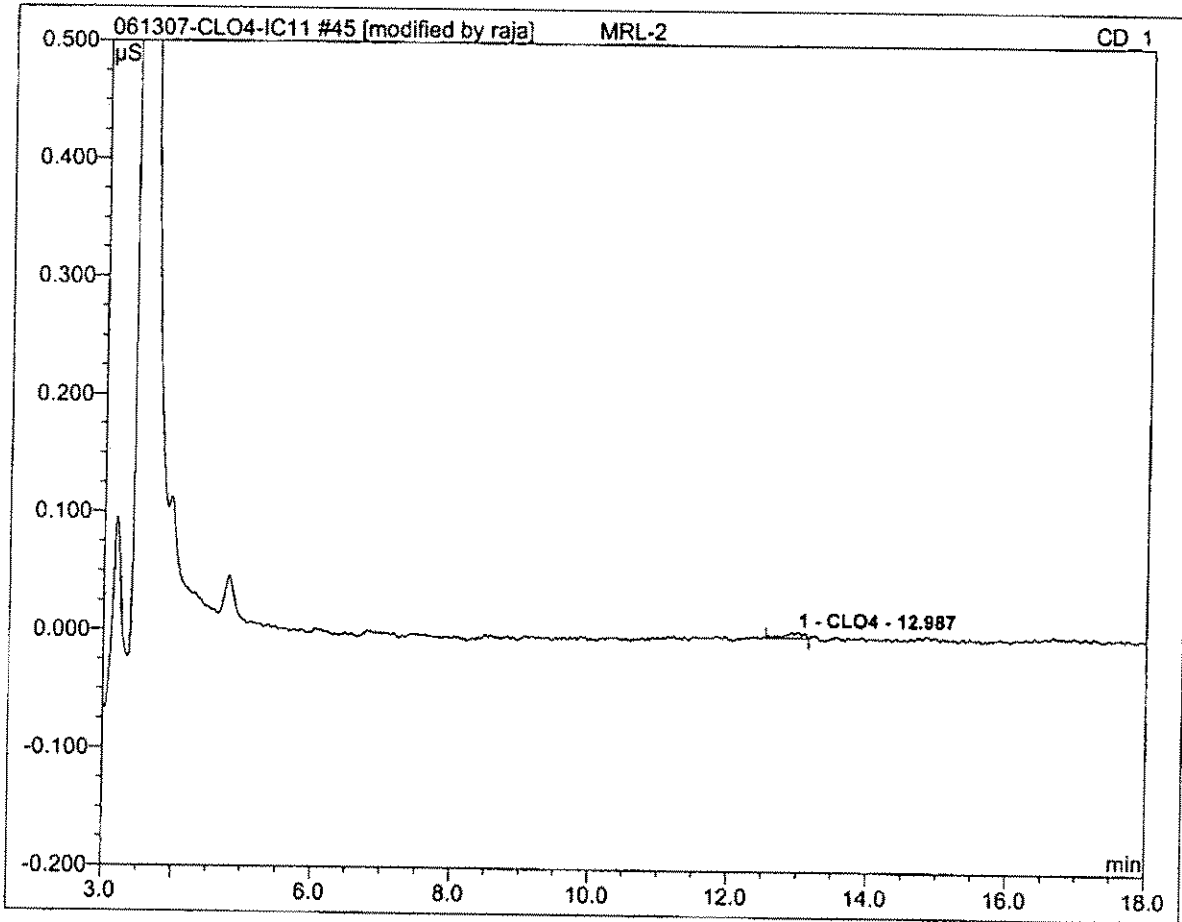
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.90 | CLO4 | 0.066 | 0.025 | 100.00 | 24.863 | BMB |
| Total: | | | 0.066 | 0.025 | 100.00 | 24.863 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 44 MBLK | | | |
| Sample Name: | MBLK | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 00:13 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



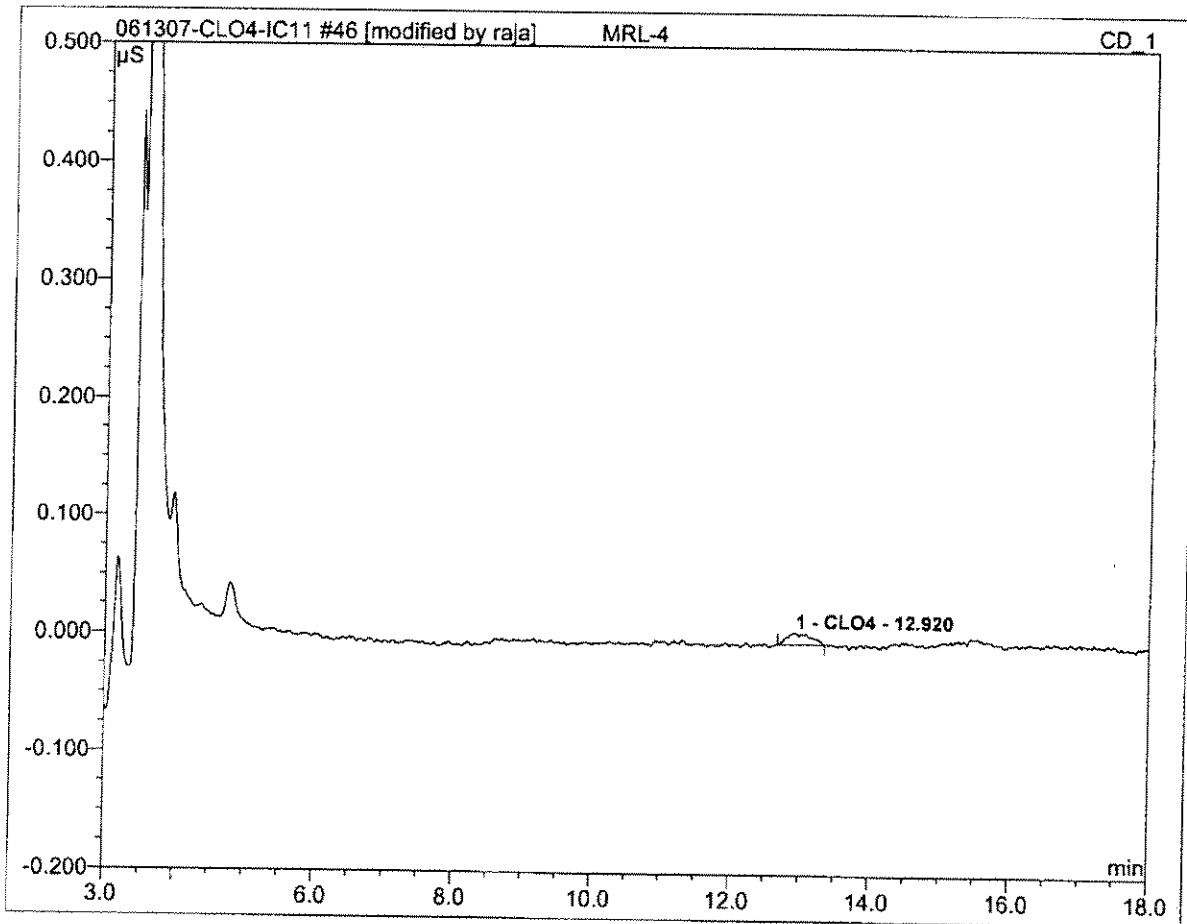
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|--------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: | | | 0.000 | 0.000 | 0.00 | 0.000 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 45 MRL-2 | | | |
| Sample Name: | MRL-2 | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 00:36 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



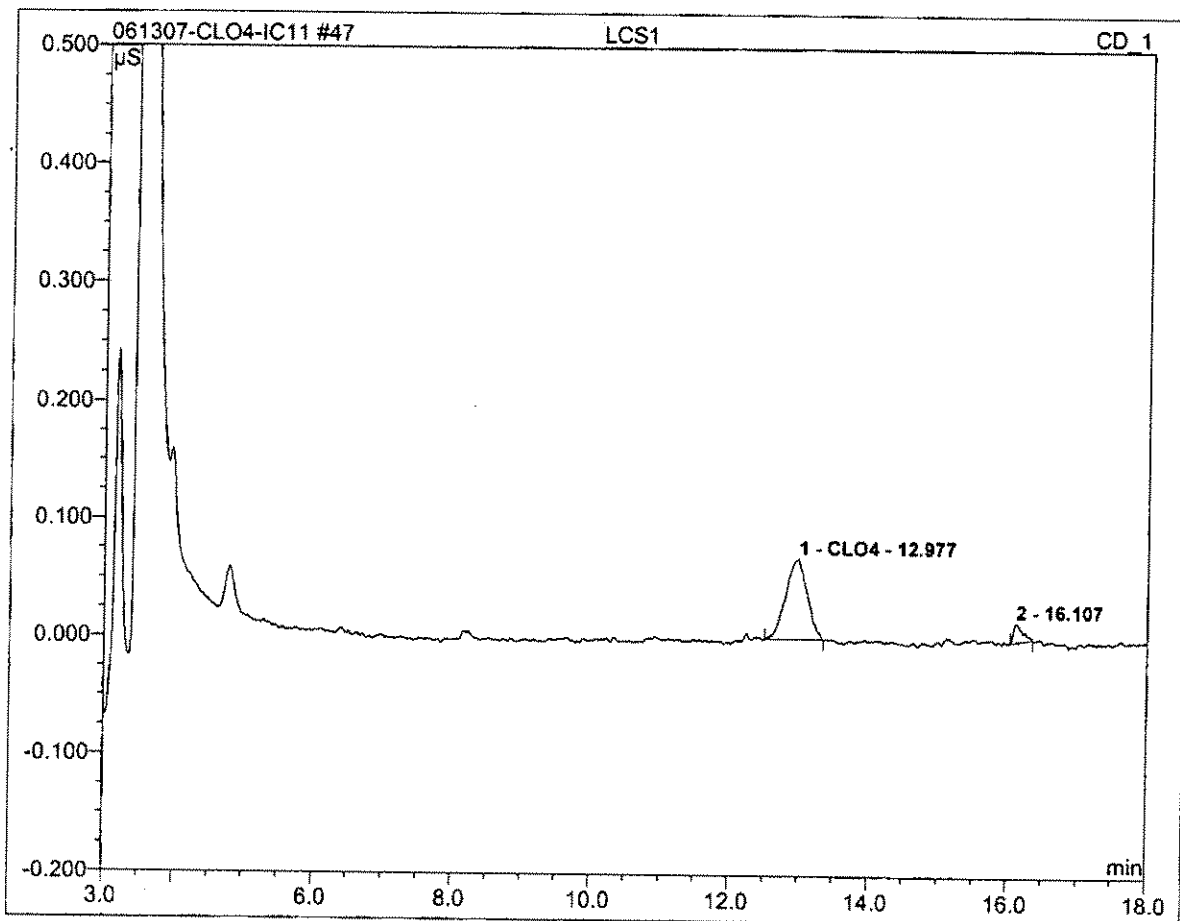
| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.99 | CLO4 | 0.005 | 0.001 | 100.00 | 1.779 | BMB* |
| Total: | | | 0.005 | 0.001 | 100.00 | 1.779 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 46 MRL-4 | | | |
| Sample Name: | MRL-4 | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 00:58 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



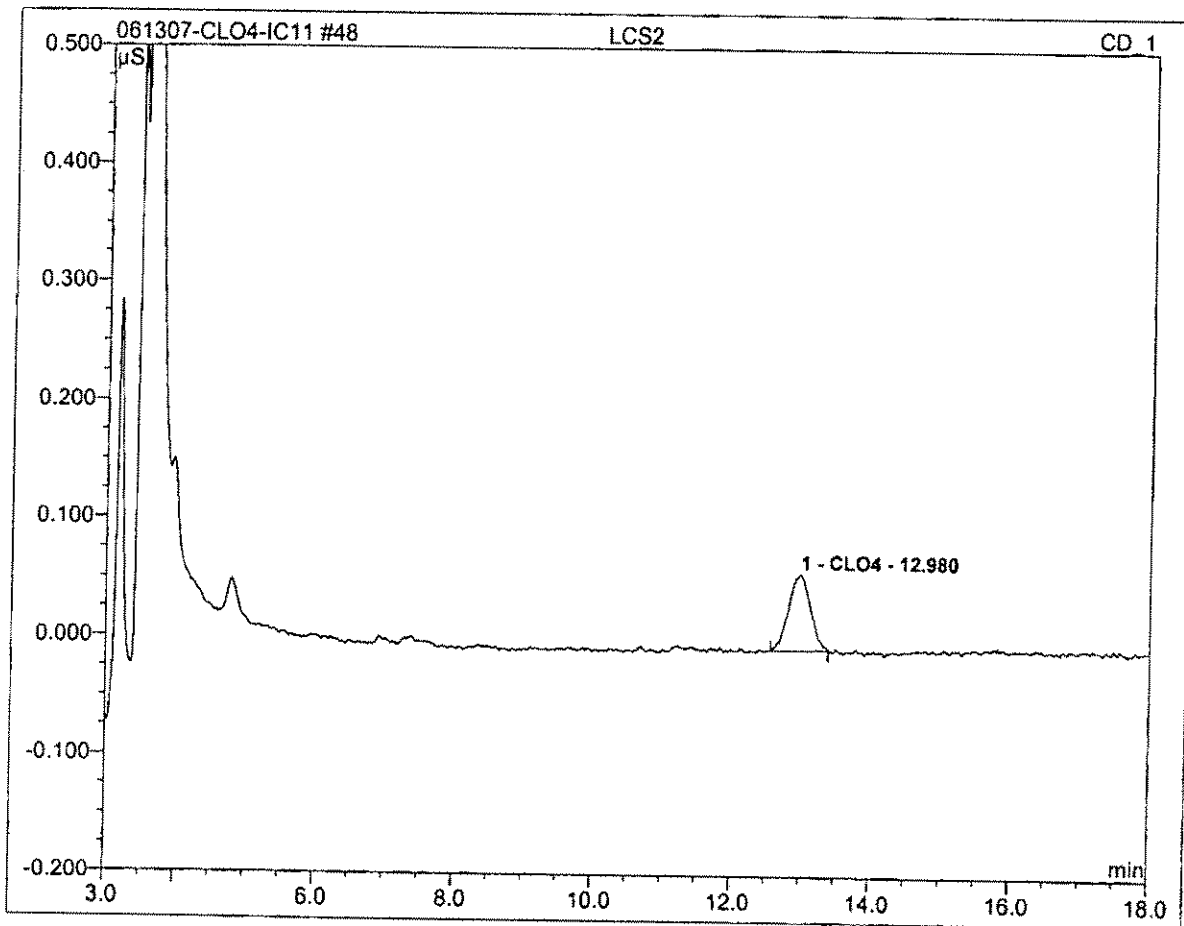
| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.92 | CLO4 | 0.010 | 0.004 | 100.00 | 4.129 | BMB* |
| Total: | | | 0.010 | 0.004 | 100.00 | 4.129 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 47 LCS1 | | | |
| Sample Name: | LCS1 | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 01:20 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



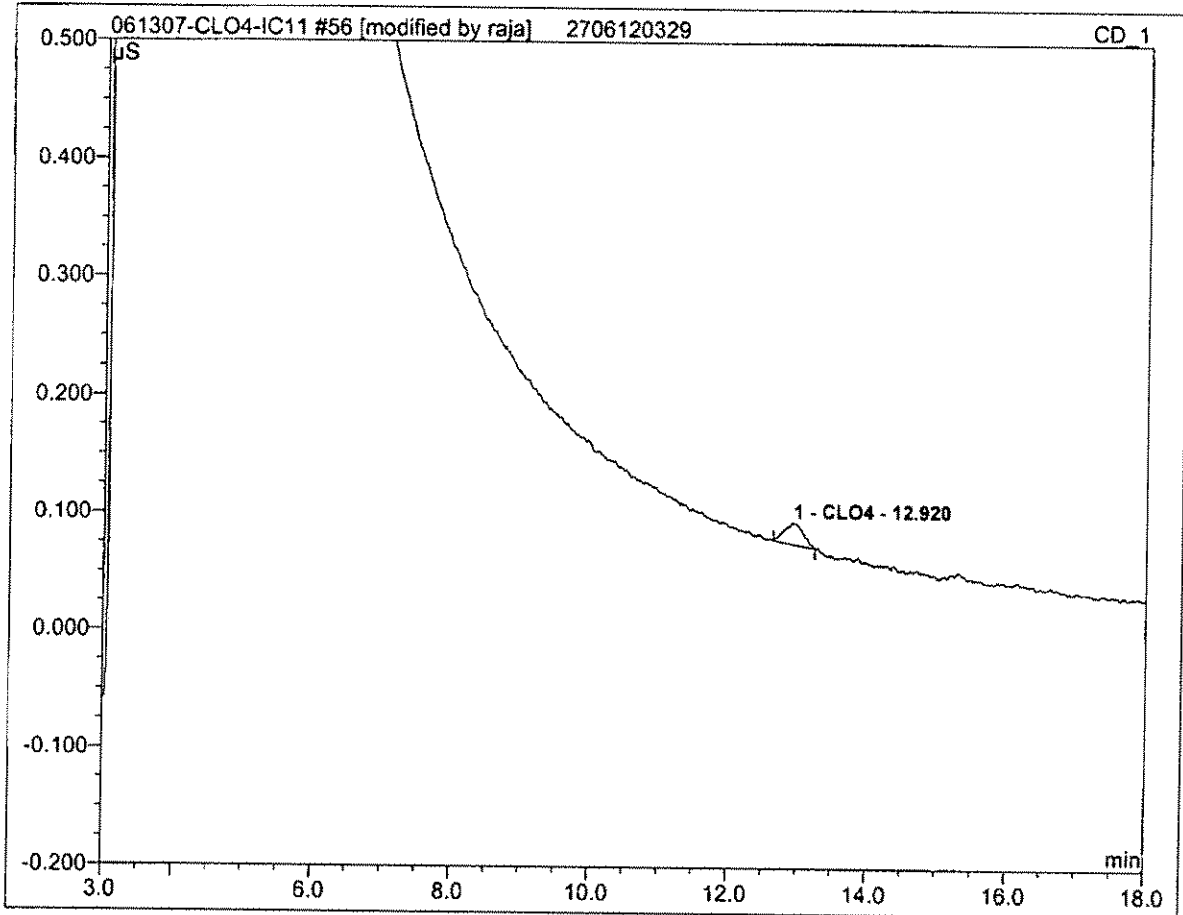
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.98 | CLO4 | 0.068 | 0.024 | 90.93 | 24.375 | BMB |
| Total: | | | 0.068 | 0.024 | 90.93 | 24.375 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 48 LCS2 | | | |
| Sample Name: | LCS2 | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 01:43 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



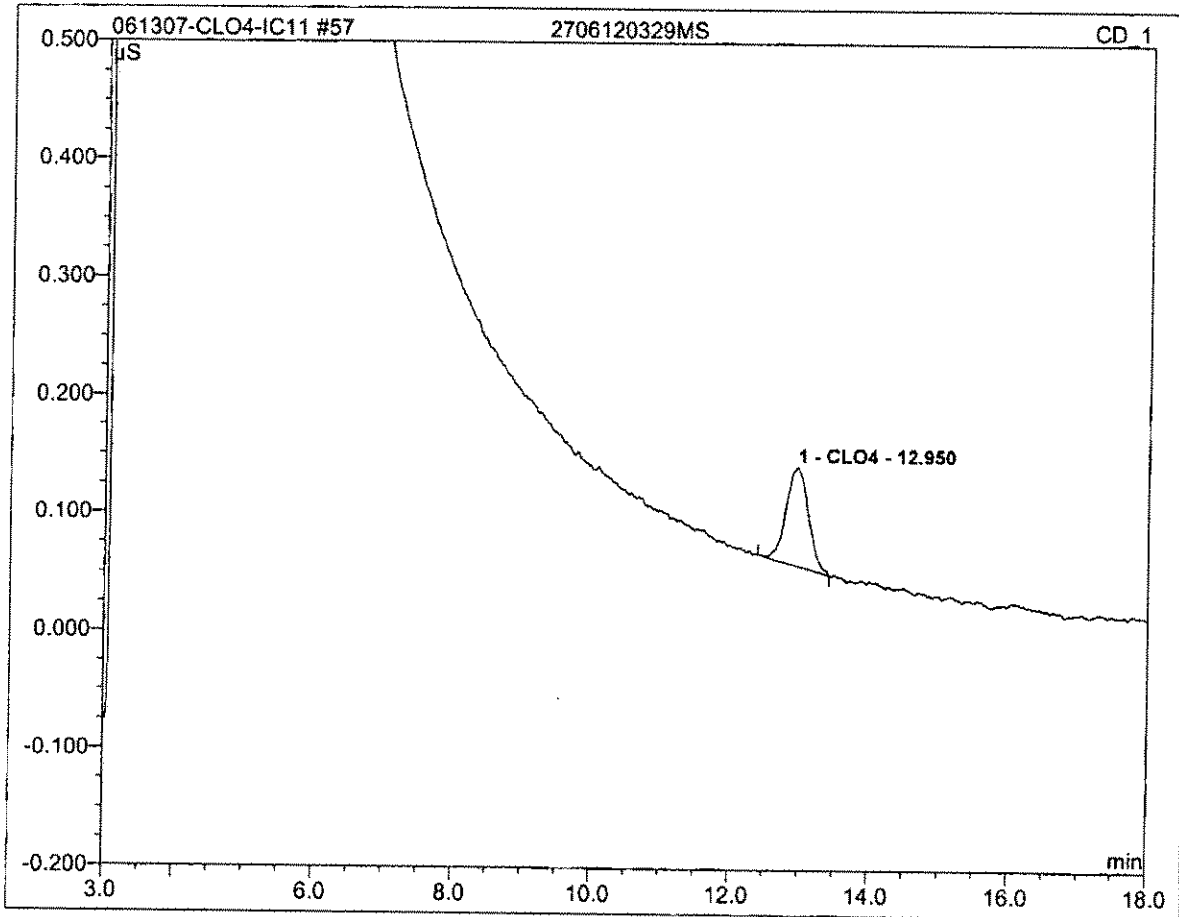
| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.98 | CLO4 | 0.065 | 0.024 | 100.00 | 23.713 | BMB |
| Total: | | | 0.065 | 0.024 | 100.00 | 23.713 | |

| | | | |
|----------------------|------------------|------------------|------------------|
| 56 2706120329 | | | |
| Sample Name: | 2706120329 | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 04:42 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.92 | CLO4 | 0.019 | 0.006 | 100.00 | 6.172 | BMB* |
| Total: | | | 0.019 | 0.006 | 100.00 | 6.172 | |

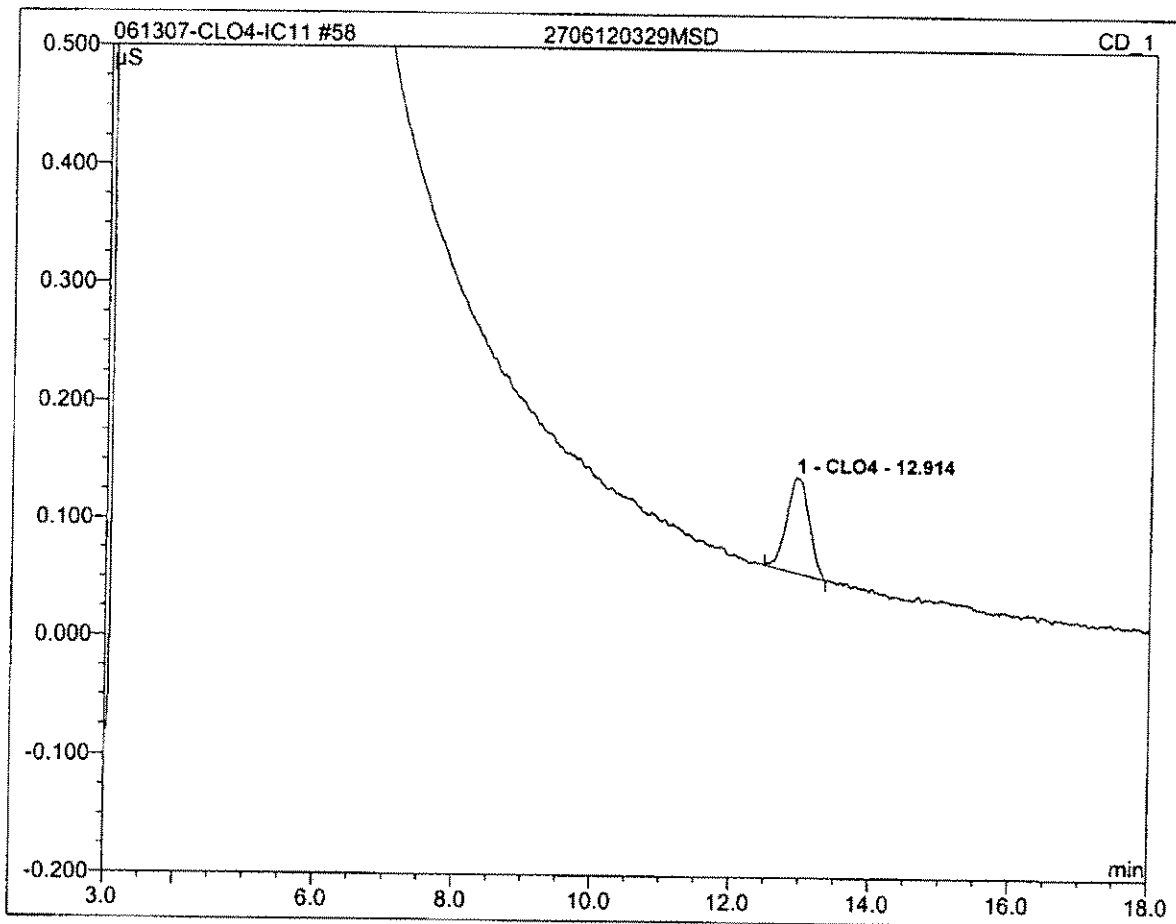
| | | | |
|------------------------|------------------|------------------|------------------|
| 57 2706120329MS | | | |
| Sample Name: | 2706120329MS | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 05:04 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.95 | CLO4 | 0.083 | 0.031 | 100.00 | 30.907 | BMB |
| Total: | | | 0.083 | 0.031 | 100.00 | 30.907 | |

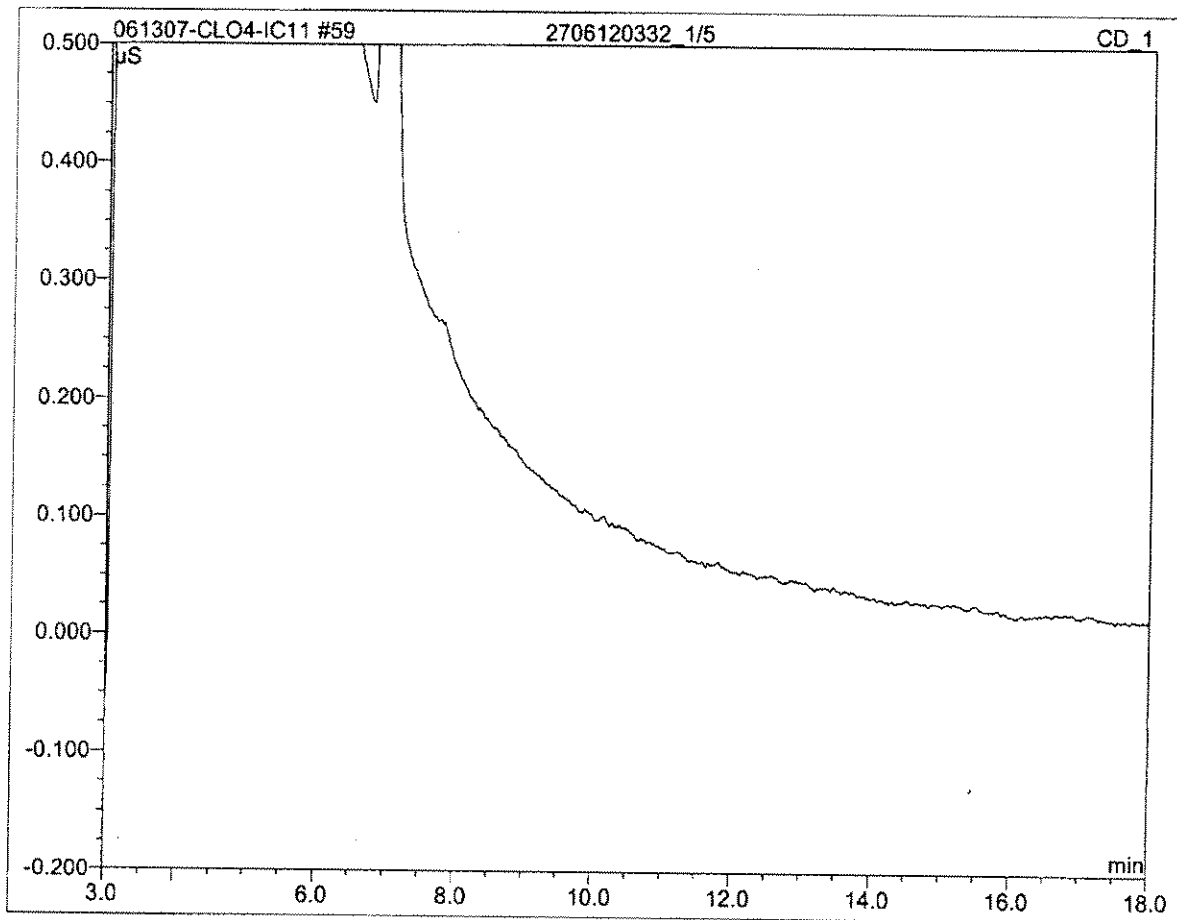
58 2706120329MSD

| | | | |
|-----------------|------------------|------------------|------------------|
| Sample Name: | 2706120329MSD | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 05:27 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.91 | CLO4 | 0.082 | 0.031 | 100.00 | 30.470 | BMB |
| Total: | | | 0.082 | 0.031 | 100.00 | 30.470 | |

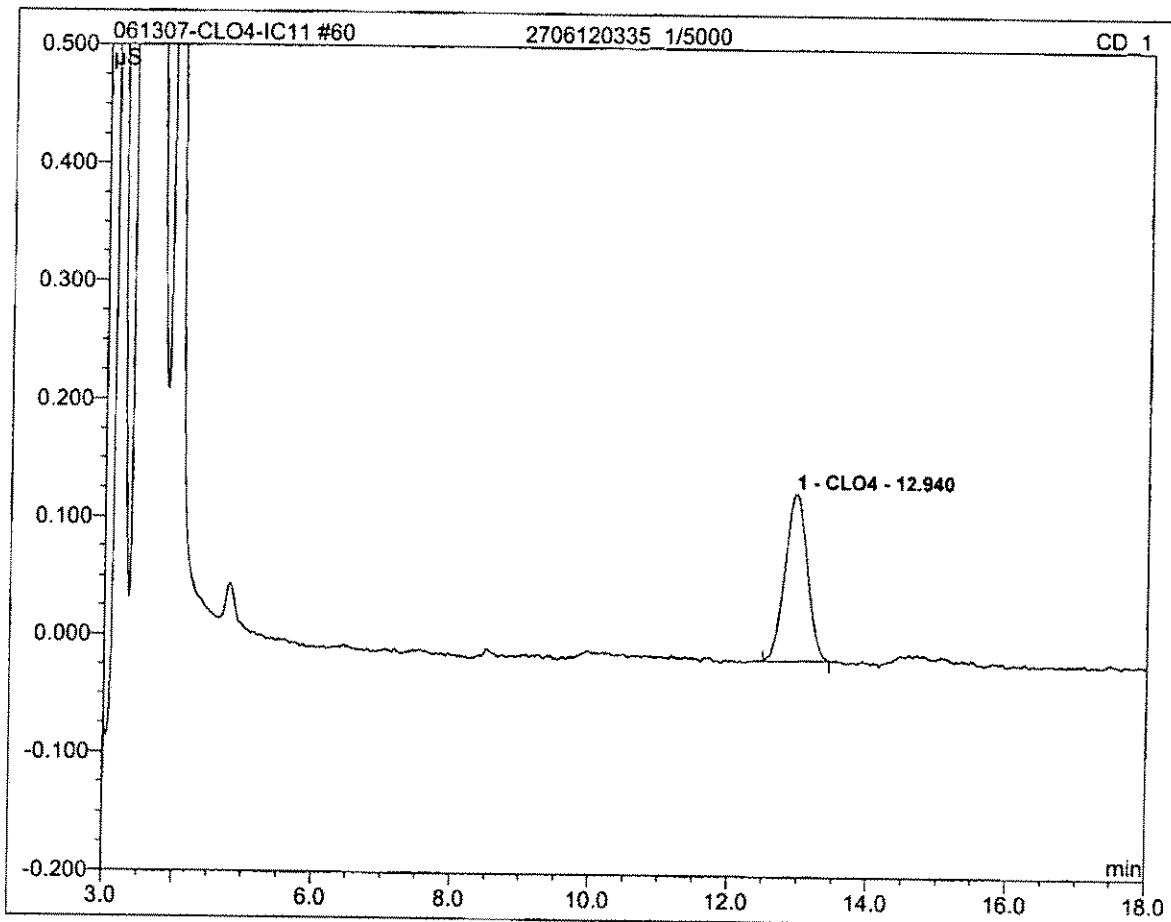
| | | | |
|--------------------------|------------------|------------------|------------------|
| 59 2706120332_1/5 | | | |
| Sample Name: | 2706120332_1/5 | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 05:49 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 5.0000 |



| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| Total: | | | 0.000 | 0.000 | 0.00 | 0.000 | |

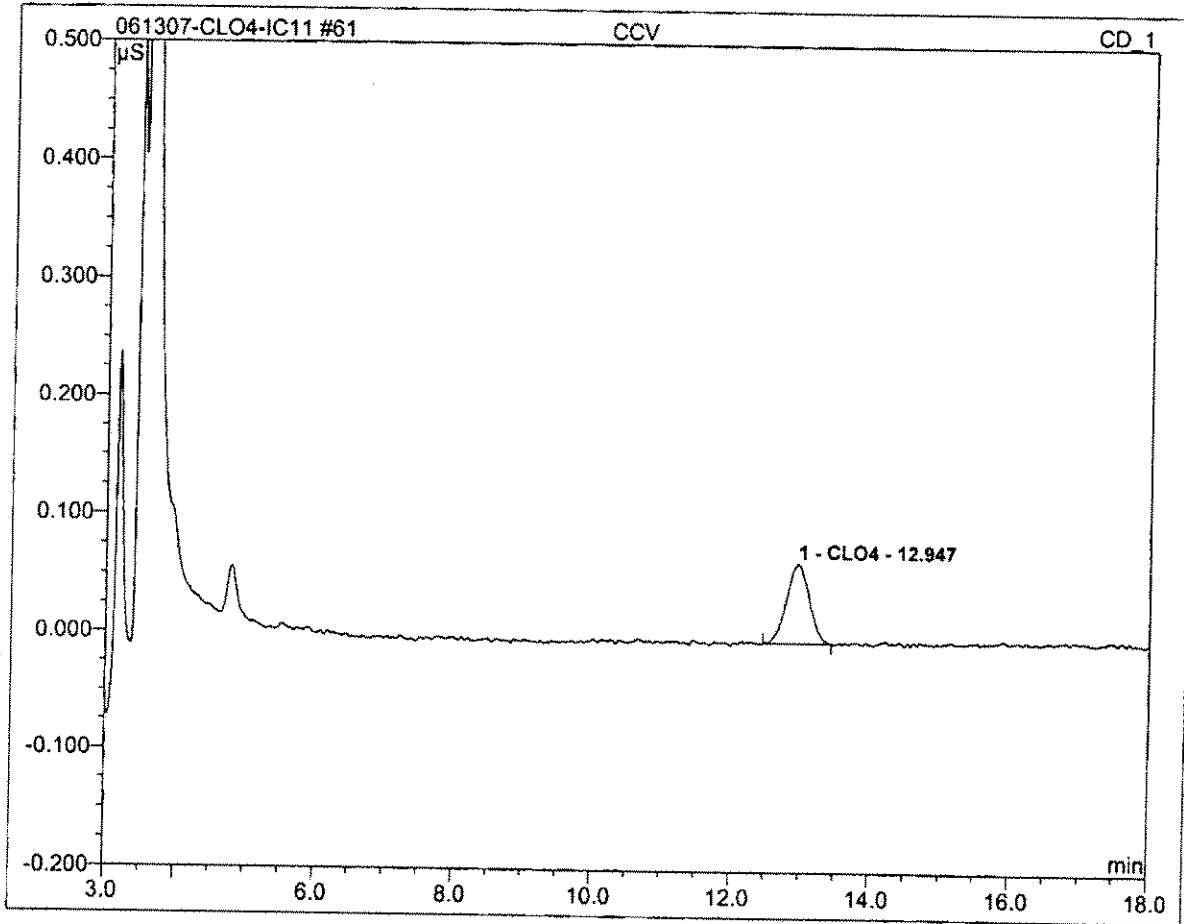
60 2706120335_1/5000

| | | | |
|-----------------|-------------------|------------------|------------------|
| Sample Name: | 2706120335_1/5000 | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 06:12 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 5000.0000 |



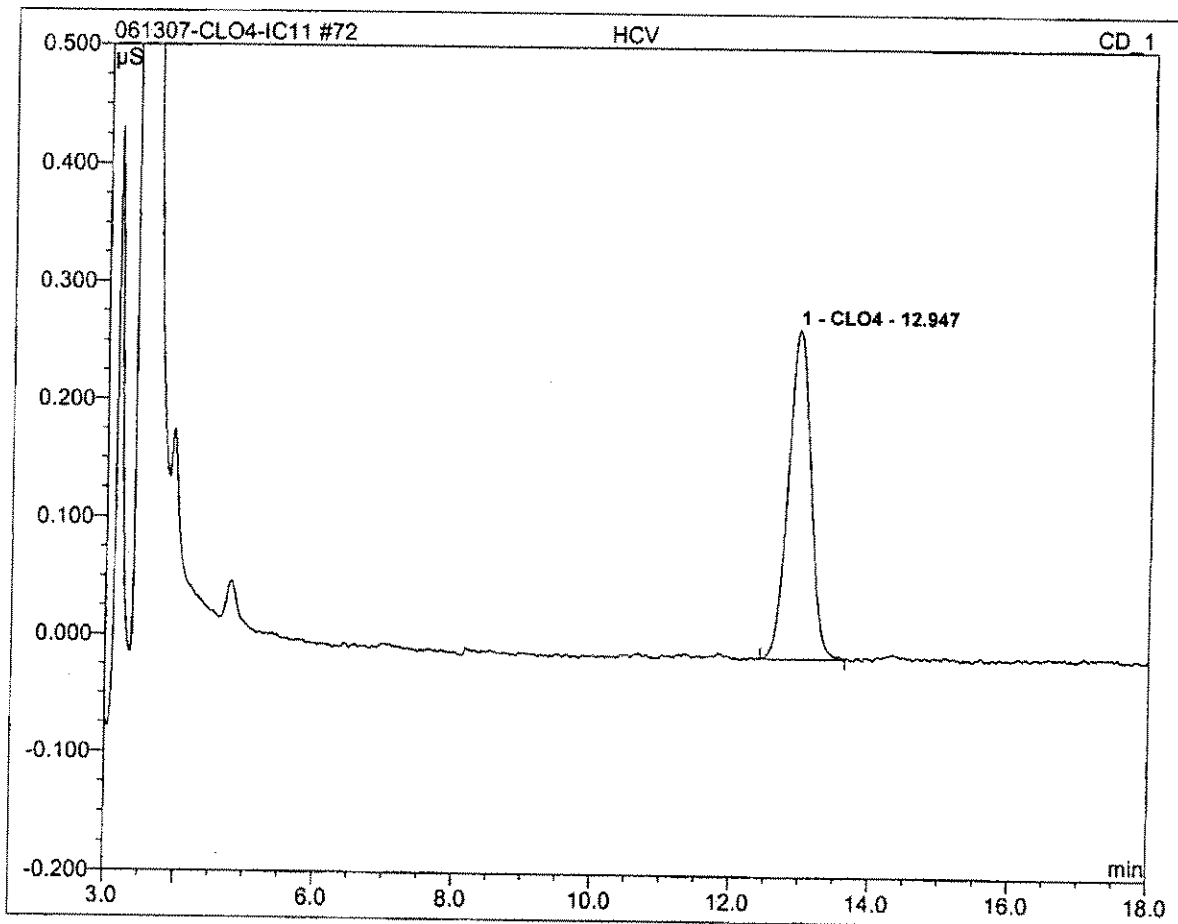
| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|------------|------|
| 1 | 12.94 | CLO4 | 0.142 | 0.053 | 100.00 | 258875.297 | BMB |
| Total: | | | 0.142 | 0.053 | 100.00 | 258875.297 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 61 CCV | | | |
| Sample Name: | CCV | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 06:34 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



| No. | Ret.Time min | Peak Name | Height μS | Area μS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.95 | CLO4 | 0.068 | 0.026 | 100.00 | 25.589 | BMB |
| Total: | | | 0.068 | 0.026 | 100.00 | 25.589 | |

| | | | |
|-----------------|------------------|------------------|------------------|
| 72 HCV | | | |
| Sample Name: | HCV | Channel: | CD_1 |
| Sample Type: | unknown | Control Program: | Perchlorate-IC11 |
| Recording Time: | 06/14/2007 10:40 | Quantif. Method: | IC#4-CLO4-LOW |
| Analyst: | Raja | Dilution Factor: | 1.0000 |



| No. | Ret.Time min | Peak Name | Height µS | Area µS*min | Rel.Area % | Amount | Type |
|---------------|-----------------|-----------|--------------|----------------|---------------|--------|------|
| 1 | 12.95 | CLO4 | 0.280 | 0.105 | 100.00 | 99.763 | BMB |
| Total: | | | 0.280 | 0.105 | 100.00 | 99.763 | |

**Standard
Preparation
Worksheet
&
Certificate of
Analysis**

Reagent Preparation Documentation

Reagent: DBP LCS Stock Solution
Date Received/Prepped: 082706/100106/110106/111606/122006/010807/020607
Date Expired: 092706/110106/120106/121606/012007/020807/030607
Manufacturer: _____
Storage Condition: _____

MW #: Raja060827-1
By: Raja
Matrix: ag
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|------------------------------------|--|----------|---------------|
| Chlorite 1000ppm exp: -03-24-07 | 1000 ML ? Add 50 ML of EDA (LMR060129-12) the | R 201401 | 10ppm |
| Chlorate 1000ppm exp: -05-31-09 | 1000 ML dilute to 100 ml with D.I. water | R 201400 | 10ppm |
| Bromide exp: -10-27-07 | 500 ML | R 201369 | 5ppm |

Comment: _____

Reagent: DBP LCS Solution
Date Received/Prepped: 082706/100106/110106/111606/122006/010807/020607
Date Expired: 092706/110106/120106/121606/012007/020807/030607
Manufacturer: _____
Storage Condition: _____

MW #: Raja060827-2
By: Raja
Matrix: ag
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|--------------------|--|--------------|---|
| DBP LCS stock soln | 2ml ? Dilute with D.I. water to 100ml | Raja060827-1 | ClO ₂ :-200ppb |
| EDA solution | 50 ML | LMR060129-12 | ClO ₃ :-200ppb Br:-100ppb |

Comment: Prep: _____
 exp: _____

Reagent: Perchlorate Calibration Stock Solution
Date Received/Prepped: 091306/101106/113006/012107/022807
Date Expired: 121306/101107/023007/042107/052807
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-1
By: Raja
Matrix: ag
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|-------------------------------------|---|----------|---------------|
| Perchlorate 1000ppm exp: -072809 | 100 ML → Dilute with D.I. water to 100ml | R201449 | 1000ppb |

Comment: 030407/042107/051607/061207/
060407/072707/081607/091207/

Reagent Preparation Documentation

Reagent: C104 Calibration Standard #1
Date Received/Prepped: 091306/101106/111306/121207/102207/022807
Date Expired: 121306/101107/102307/104210/103007/1052807
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-2
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|-----------------------|--|--------------|---------------|
| C104 Cal. Stock sol'n | 200 ML → Dilute to 100ml with D.I. water | Raja060913-1 | 2.0 ppb |
| | | | |
| | | | |
| | | | |
| | | | |

Comment: 030407/042707/051607/061207/060407/072707/081607/091207/

Reagent: C104 Calibration Standard #2
Date Received/Prepped: 091306/101106/111306/101210/102207/022807
Date Expired: 121306/101107/102307/104210/103007/1052807
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-3
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|-----------------------|--|--------------|---------------|
| C104 Cal. Stock sol'n | 400 ML → Dilute to 100ml with D.I. water | Raja060913-1 | 4.0 ppb |
| | | | |
| | | | |
| | | | |
| | | | |

Comment: 030407/042707/051607/061207/060407/072707/081607/091207/

Reagent: C104 Calibration Standard #3
Date Received/Prepped: 091306/101106/111306/101210/102207/022807
Date Expired: 121306/101107/102307/104210/103007/1052807
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-4
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|-----------------------|---------------------------------------|--------------|---------------|
| C104 Cal. Stock sol'n | 1ml → Dilute to 100ml with D.I. water | Raja060913-1 | 10.0 ppb |
| | | | |
| | | | |
| | | | |
| | | | |

Comment: 030407/042707/051607/061207/060407/072707/081607/091207/

Reagent Preparation Documentation

Reagent: ClO₄ Calibration Standard #4
Date Received/Prepped: 091306/101106 / 113006/1012107 / 022207/030407
Date Expired: 121306/011107 / 022007/04042107 / 052207/060407
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-5
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|-----------------------------------|---|--------------|---------------|
| ClO ₄ cal. stock sol'n | 2.5ml → Dilute to 100ml with D.I. water | Raja060913-1 | 25.0ppb |
| | | | |
| | | | |
| | | | |
| | | | |

Comment: 042707/051607/061207/
072707/081607/091207/

Reagent: ClO₄ Calibration Standard #5
Date Received/Prepped: 091306/101106 / 113006/1012107 / 022207/030407
Date Expired: 121306/011107 / 022307/042107 / 052207/060407
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-6
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|-----------------------------------|---|--------------|---------------|
| ClO ₄ cal. stock sol'n | 5.0ml → Dilute to 100ml with D.I. water | Raja060913-1 | 50.0ppb |
| | | | |
| | | | |
| | | | |
| | | | |

Comment: 042707/051607/
072707/081607/

Reagent: ClO₄ Calibration Standard #6
Date Received/Prepped: 091306/101106 / 113006/1012107 / 022207/030407
Date Expired: 121306/011107 / 022307/042107 / 052207/060407
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-7
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

| Component | Comment | Standard | Concentration |
|-----------------------------------|--|--------------|---------------|
| ClO ₄ cal. stock sol'n | 10.0ml → Dilute to 100ml with D.I. water | Raja060913-1 | 100ppb |
| | | | |
| | | | |
| | | | |
| | | | |

Comment: 042707/051607/061207/
072707/081607/091207/

CERTIFIED WEIGHT REPORT:

Part Number: 57901
 Lot Number: 072806
 Description: Perchlorate
 Expiration Date: 072809

Lot #
 Solvent(s): 072806
 ASTM Type 1 Water

R201449

Nominal Concentration (µg/mL): 1000

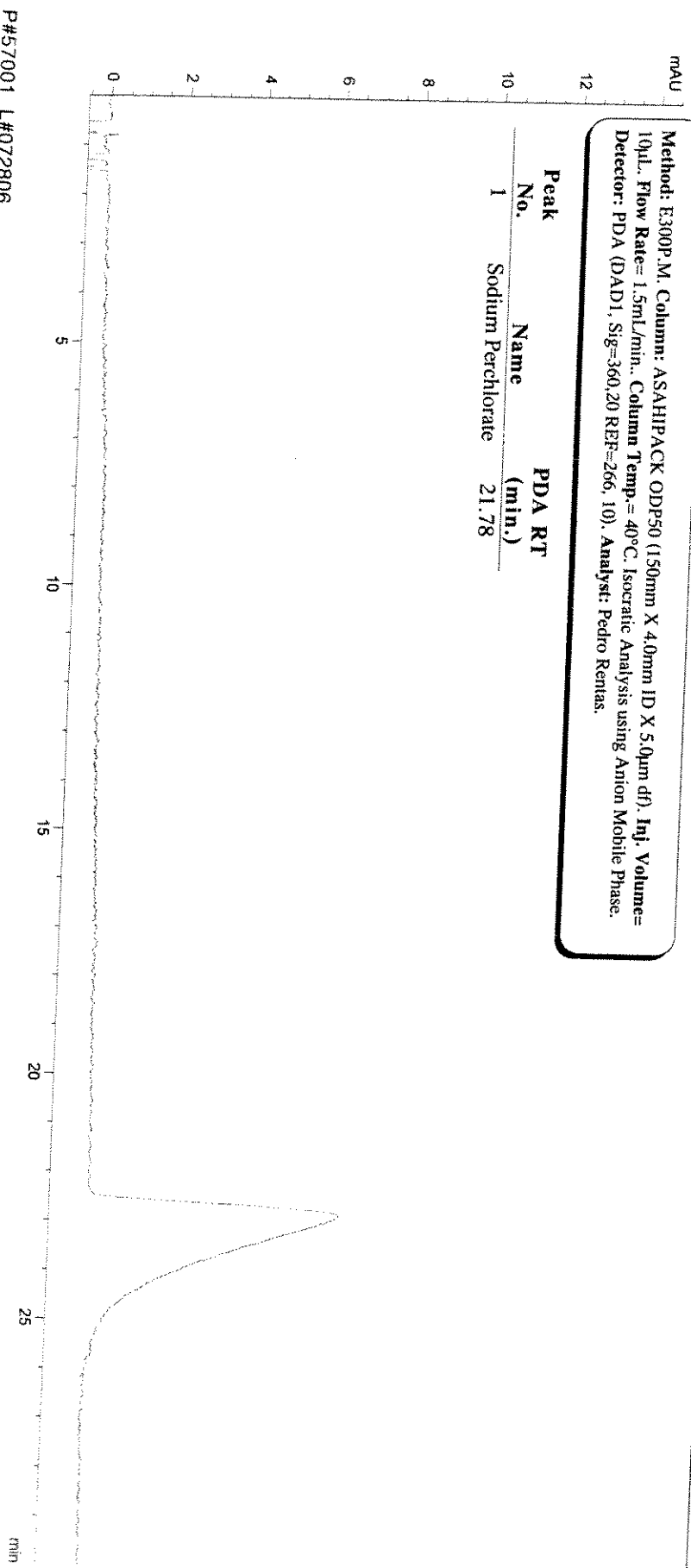
Weight(s) shown below were combined and diluted to (mL): 1000.55
 SE-05 Balance Uncertainty: 0.084
 Flask Uncertainty

| | | |
|----------------|-----------------|--------|
| Formulated By: | Lawrence Barry | 072806 |
| Reviewed By: | Pedro L. Rentas | 072806 |

| Compound | Lot | RM# | Number | Nominal Conc (µg/mL) | Uncertainty Assay | | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded (+/-) Uncertainty | MSDS Information | | |
|------------------------------|-----|-----|-----------------|----------------------|-------------------|------------|------------------|------------------|---------------------|----------------------------|--|----------------|-------|
| | | | | | Purity (%) | Purity (%) | | | | | (Solvent Safety Info. On Attached pg.) | OSHA PEL (TVA) | |
| 1. Sodium Perchlorate (ClO4) | | | IN119 AR06730TQ | 1000.0 | 99.0 | 0.10 | 81.2 | 1.2319 | 1.23216 | 1000.2 | 0.00203 | 07601-89-0 | N/A |
| | | | | | | | | | | | | N/A | 3152a |

Method: E300P.M. Column: ASAHIPACK ODP50 (150mm X 4.0mm ID X 5.0µm df). Inj. Volume= 10µL. Flow Rate= 1.5mL/min. Column Temp.= 40°C. Isocratic Analysis using Anion Mobile Phase. Detector: PDA (DAD1, Sig=360,20 REF=266, 10). Analyst: Pedro Rentas.

| Peak No. | Name | PDA RT (min.) |
|----------|--------------------|---------------|
| 1 | Sodium Perchlorate | 21.78 |



P#57001 L#072806