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Level IV Data Package

MWH Group 212147

Method: 314 CLO4

Sample No.:

2708020317
2708020318
2708020319
2708020320
2708020321
2708020322
2708020323
2708020324
2708020325
2708020326
2708020327
2708020328
2708020329
2708020330
2708020331
2708020342
2708020343
2708020344

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 08/04/07 Analyst: clu

QC'd by MJE Date 8-7-07

Instrument: IC11

Calculated MCT Level: 3155 umhos/cm

Original IPC conductance: 3100 umhos/cm

Daily IPC conductance: 3100 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 $<$ or $=$ half of the MRL.

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

$$PDA/H = 2.2\%$$

$$PDA = 1.4\%$$

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 SJA (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) SJA 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

One Laboratory Reagent Blank (LRB). Perchlorate is $<$ or $=$ half of MRL.

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

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

QIR needed for failed QC

QIR needed for samples analyzed outside of hold time

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount	CLO4 CD_1
1	autocal1	1.0	0	08.02.07 09:38		n.a.
2	autocal2	1.0	2	08.02.07 10:01		2.2251
3	autocal3	1.0	4	08.02.07 10:23		3.6308
4	autocal4	1.0	10	08.02.07 10:45		10.3344
5	autocal5	1.0	25	08.02.07 11:08		24.6636
6	autocal6	1.0	50	08.02.07 11:30		50.1703
7	autocal7	1.0	100	08.02.07 11:53		99.9758
8	QCS	1.0	20	08.04.07 11:28		20.1490
9	IPC	1.0	25	08.04.07 11:51		23.0163
10	-MBLK	1.0		08.04.07 12:13		n.a.
11	-MRLCHK-2	1.0	2	08.04.07 12:36		2.4129
12	-MRLCHK-4	1.0	4	08.04.07 12:58	✓	3.7465
13	-LCS1	1.0	25	08.04.07 13:20	✓	27.1439
14	-LCS2	1.0	25	08.04.07 13:43	✓	25.5468
15	2708020261_1/50000	50000.0		08.04.07 14:05	✓	1810456.2059
16	2708020262_1/50000	50000.0		08.04.07 14:28	✓	1454528.3344
17	2708020263_1/50000	50000.0		08.04.07 14:50	✓	1698850.1227
18	2708020264_1/50000	50000.0		08.04.07 15:12	✓	1067701.0808
19	2708020265_1/50000	50000.0		08.04.07 15:35	✓	886213.7964
20	2708020266_1/50000	50000.0		08.04.07 15:57	✓	1003611.4780
21	2708020267_1/50000	50000.0		08.04.07 16:20	✓	1197553.4371
22	2708020268_1/50000	50000.0		08.04.07 16:42	✓	1163174.7988
23	2708020269_1/50000	50000.0		08.04.07 17:04	✓	2164930.0307
24	2708020270_1/50000	50000.0		08.04.07 17:27	✓	3059346.7110
25	2708020270-MS	50000.0	25	08.04.07 17:49	✓	4215746.1281
26	2708020270-MSD	50000.0	25	08.04.07 18:12	✓	4275779.6446
27	CCV	1.0	25	08.04.07 18:34		25.5780
28	2708020271_1/50000	50000.0		08.04.07 18:56	✓	1151470.0229
29	2708020272_1/50000	50000.0	DNR	08.04.07 19:19	✓	4019848.3400
30	2708020317_1/20	20.0		08.04.07 19:41	✓	752.4998
31	2708020318_1/2500	2500.0		08.04.07 20:04	✓	89208.4961
32	2708020319_1/50000	50000.0		08.04.07 20:26	✓	1708545.3679
33	2708020320_1/50000	50000.0		08.04.07 20:48	✓	1076751.2080
34	2708020321_1/50000	50000.0		08.04.07 21:11	✓	2130619.3764
35	2708020322_1/50000	50000.0		08.04.07 21:33	✓	406636.5023
36	2708020323_1/100	100.0		08.04.07 21:56	✓	2492.1578
37	2708020324_1/10000	10000.0		08.04.07 22:18	✓	488982.6623
38	HCV	1.0	100	08.04.07 22:40		103.6037
39	IPC	1.0	25	08.04.07 23:03		22.5945
40	-MBLK	1.0		08.04.07 23:25		n.a.
41	-MRLCHK-2	1.0	2	08.04.07 23:48		2.4537
42	-MRLCHK-4	1.0	4	08.05.07 00:10	✓	4.3078
43	-LCS1	1.0	25	08.05.07 00:32	✓	25.4667
44	-LCS2	1.0	25	08.05.07 00:55	✓	25.7608

101%
92.1%
105%
121%
93.7%
109%
102%
23.1/92.5%
24.3/97.3%
102%
DNR
08/08/07

45	2708020325_1/1000 ✓	1000.0		08.05.07 01:17	✓60949.1845	
46	2708020326_1/2000 ✓	2000.0		08.05.07 01:40	✓81015.9518	
47	2708020327_1/2000 ✓	2000.0		08.05.07 02:02	✓55810.2467	
48	2708020328_1/5000 ✓	5000.0		08.05.07 02:24	✓204144.5392	
49	2708020329_1/25000 ✓	25000.0		08.05.07 02:47	✓653966.0048	
50	2708020330_1/10000 ✓	10000.0		08.05.07 03:09	✓581536.7479	
51	2708020331_1/50000 ✓	50000.0		08.05.07 03:32	✓1134858.7068	
52	2708020332_1/50000 ✓	50000.0		08.05.07 03:54	✓2074802.2982	
53	2708020342_1/10000 ✓	10000.0		08.05.07 04:16	✓320488.1294	
54	2708020342-MS	10000.0	25	08.05.07 04:39	✓539543.8982	21.9/87.6%
55	2708020342-MSD	10000.0	25	08.05.07 05:01	✓568181.8539	21.8/99.1%
56	2708020343_1/2 ✓	2.0		08.05.07 05:24	✓27.6635	
57	CCV	1.0	25	08.05.07 05:46	25.9005	104%
58	2708020344_1/100DNR	100.0		08.05.07 06:08	301887.4470	DNR
59	2708020570_1/2DNR	2.0		08.05.07 06:31	7.9810	DNR
60	2708020571_1/2	2.0		08.05.07 06:53	✓n.a.	
61	2708020572_1/2	2.0		08.05.07 07:16	✓n.a.	
62	2708020573_1/2	2.0		08.05.07 07:38	✓n.a.	
63	2708020574_1/2	2.0		08.05.07 08:00	✓n.a.	
64	2708020575_1/2	2.0		08.05.07 08:23	✓n.a.	
65	2708020576_1/2	2.0		08.05.07 08:45	✓n.a.	
66	2707310176_1/100	100.0	RR	08.05.07 09:08	✓4000.8200	
67	2707310397_50000	50000.0	RR	08.05.07 09:30	✓399458.6989	
68	HCV	1.0	100	08.05.07 09:53	103.7095	104%
69	STOP	1.0		08.05.07 10:15	n.a.	

PC-Titrate For Windows V3

Exported Equation Results

Sample ID	cond
1412uS	1396.000
2708020256 /	13680.000
2708020261 -	14820.000 ✓
2708020260 /	15130.000
2708020259 /	15430.000
2708020258 /	10300.000
2708020257 /	14540.000
2708020262 -	13690.000 ✓
2708020263 -	11770.000
2708020264 -	10570.000
2708020265 -	10240.000
2708020266 -	9800.000
2708020267 -	8830.000
2708020268 -	7520.000
2708020269 -	7930.000
2708020270 -	8200.000
2708020271 -	5970.000
2708020272	8740.000
2708020344	8830.000
2708020317 -	2440.000
2708020318 -	4620.000
2708020319 -	9210.000
2708020320 -	13730.000
2708020321 -	10880.000
2708020322 -	7340.000
2708020323 -	6510.000
2708020324 -	7500.000
2708020325 -	7680.000
2708020327 -	6340.000
2708020326 -	6130.000
2708020328 -	6750.000
2708020329 -	9290.000
2708020330 -	8160.000
2708020332 -	13020.000
2708020331 -	12440.000
2708020342 -	8970.000
2708020343 -	58.400
WASH	15.960

win 8/3/07

Sequence: 080407-CLO4-IC11
Operator: clv

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Printed: 8/7/2007 12:52:02 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 69

Created: 8/3/2007 2:06:55 PM by clv
Last Update: 8/6/2007 9:22:03 AM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
1	autocal1		1.0000	Standard	0	Finished
2	autocal2	R201449 EXP 07/28/09	1.0000	Standard	2	Finished
3	autocal3		1.0000	Standard	4	Finished
4	autocal4		1.0000	Standard	10	Finished
5	autocal5		1.0000	Standard	25	Finished
6	autocal6		1.0000	Standard	50	Finished
7	autocal7		1.0000	Standard	100	Finished
8	QCS	R201449 EXP 07/28/09	1.0000	Unknown	20	Finished
9	IPC	EC=3155	1.0000	Unknown	25	Finished
10	-MBLK		1.0000	Unknown		Finished
11	-MRLCHK-2	2	1.0000	Unknown	2	Finished
12	-MRLCHK-4	4	1.0000	Unknown	4	Finished
13	-LCS1	25	1.0000	Unknown	25	Finished
14	-LCS2	25	1.0000	Unknown	25	Finished
15	2708020261_1/50000 ✓	KM I-Q	50000.0000	Unknown		Finished
16	2708020262_1/50000 ✓	KM I-F	50000.0000	Unknown		Finished
17	2708020263_1/50000 ✓	KM I-N	50000.0000	Unknown		Finished
18	2708020264_1/50000 ✓	KM I-E	50000.0000	Unknown		Finished
19	2708020265_1/50000 ✓	KM I-M	50000.0000	Unknown		Finished
20	2708020266_1/50000 ✓	KM I-D	50000.0000	Unknown		Finished
21	2708020267_1/50000 ✓	KM I-C	50000.0000	Unknown		Finished
22	2708020268_1/50000 ✓	KM I-S	50000.0000	Unknown		Finished
23	2708020269_1/50000 ✓	KM I-L	50000.0000	Unknown		Finished
24	2708020270_1/50000 ✓	KM I-R	50000.0000	Unknown		Finished
25	2708020270-MS	25	50000.0000	Unknown	25	Finished
26	2708020270-MSD	25	50000.0000	Unknown	25	Finished
27	CCV	25	1.0000	Unknown	25	Finished
28	2708020271_1/50000 ✓	KM I-B	50000.0000	Unknown		Finished
29	2708020272_1/50000 DNR	KM I-AR	50000.0000	Unknown		Finished
30	2708020317_1/20 ✓	KM M-92	20.0000	Unknown		Finished
31	2708020318_1/2500 ✓	KM M-97	2500.0000	Unknown		Finished
32	2708020319_1/50000 ✓	KM M-31A	50000.0000	Unknown		Finished
33	2708020320_1/50000 ✓	KM M-50	50000.0000	Unknown		Finished
34	2708020321_1/50000 ✓	KM M-34	50000.0000	Unknown		Finished
35	2708020322_1/50000 ✓	KM M-35	50000.0000	Unknown		Finished
36	2708020323_1/100 ✓	KM M-19	100.0000	Unknown		Finished
37	2708020324_1/10000 ✓	KM M-39	10000.0000	Unknown		Finished
38	HCV	100	1.0000	Unknown	100	Finished
39	IPC	EC=3155	1.0000	Unknown	25	Finished
40	-MBLK		1.0000	Unknown		Finished
41	-MRLCHK-2	2	1.0000	Unknown	2	Finished
42	-MRLCHK-4	4	1.0000	Unknown	4	Finished

Sequence: 080407-CLO4-IC11
Operator: clv

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Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC1\IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 69

Created: 8/3/2007 2:06:55 PM by clv
Last Update: 8/6/2007 9:22:03 AM by clv

No.	Name	Program	Method	Inj. Date/Time	*Analyst
1	autocal1	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 9:38:42 AM	clv
2	autocal2	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 10:01:05 AM	clv
3	autocal3	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 10:23:29 AM	clv
4	autocal4	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 10:45:53 AM	clv
5	autocal5	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 11:08:17 AM	clv
6	autocal6	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 11:30:41 AM	clv
7	autocal7	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 11:53:05 AM	clv
8	QCS	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 11:28:58 AM	clv
9	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 11:51:22 AM	clv
10	-MBLK	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 12:13:46 PM	clv
11	-MRLCHK-2	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 12:36:09 PM	clv
12	-MRLCHK-4	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 12:58:33 PM	clv
13	-LCS1	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 1:20:57 PM	clv
14	-LCS2	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 1:43:21 PM	clv
15	2708020261_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 2:05:45 PM	clv
16	2708020262_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 2:28:08 PM	clv
17	2708020263_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 2:50:32 PM	clv
18	2708020264_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 3:12:56 PM	clv
19	2708020265_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 3:35:20 PM	clv
20	2708020266_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 3:57:44 PM	clv
21	2708020267_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 4:20:08 PM	clv
22	2708020268_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 4:42:31 PM	clv
23	2708020269_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 5:04:55 PM	clv
24	2708020270_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 5:27:19 PM	clv
25	2708020270-MS	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 5:49:43 PM	clv
26	2708020270-MSD	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 6:12:07 PM	clv
27	CCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 6:34:31 PM	clv
28	2708020271_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 6:56:55 PM	clv
29	2708020272_1/50000 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 7:19:19 PM	clv
30	2708020317_1/20 <i>clv 8/6/07</i>	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 7:41:42 PM	clv
31	2708020318_1/2500	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 8:04:06 PM	clv
32	2708020319_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 8:26:30 PM	clv
33	2708020320_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 8:48:54 PM	clv
34	2708020321_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 9:11:18 PM	clv
35	2708020322_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 9:33:42 PM	clv
36	2708020323_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 9:56:06 PM	clv
37	2708020324_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 10:18:29 PM	clv
38	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 10:40:53 PM	clv
39	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 11:03:17 PM	clv
40	-MBLK	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 11:25:41 PM	clv
41	-MRLCHK-2	Perchlorate-IC11	IC#4-CLO4-LOW	8/4/2007 11:48:05 PM	clv
42	-MRLCHK-4	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 12:10:28 AM	clv

Sequence: 080407-CLO4-IC11
Operator: civ

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Printed: 8/7/2007 12:52:02 PM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC1C11_CLO4\2007AUG
Timebase: IC11
#Samples: 69

Created: 8/3/2007 2:06:55 PM by civ
Last Update: 8/6/2007 9:22:03 AM by civ

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
43	-LCS1	25	1.0000	Unknown	25	Finished
44	-LCS2	25	1.0000	Unknown	25	Finished
45	2708020325_1/1000 -	KM M-68	1000.0000	Unknown		Finished
46	2708020326_1/2000 -	KM M-61	2000.0000	Unknown		Finished
47	2708020327_1/2000 -	KM I-K	2000.0000	Unknown		Finished
48	2708020328_1/5000 -	KM I-J	5000.0000	Unknown		Finished
49	2708020329_1/25000 -	KM I-Z	25000.0000	Unknown		Finished
50	2708020330_1/10000 -	KM M-67	10000.0000	Unknown		Finished
51	2708020331_1/50000 -	KM I-I	50000.0000	Unknown		Finished
52	2708020332_1/50000 -	KM I-V	50000.0000	Unknown		Finished
53	2708020342_1/10000 -	KM M-12A	10000.0000	Unknown		Finished
54	2708020342-MS	25	10000.0000	Unknown	25	Finished
55	2708020342-MSD	25	10000.0000	Unknown	25	Finished
56	2708020343_1/2 -	KM EB-2	2.0000	Unknown		Finished
57	CCV	25	1.0000	Unknown	25	Finished
58	2708020344_1/100DNR	KM MD-2	100.0000	Unknown		Finished
59	2708020570_1/2DNR	IEUA HOLE LAKE OUT	2.0000	Unknown		Finished
60	2708020571_1/2	IEUA CHINO CRK@PINE	2.0000	Unknown		Finished
61	2708020572_1/2	IEUA SAR@ETIWANDA	2.0000	Unknown		Finished
62	2708020573_1/2	IEUA SAR@HAMNER	2.0000	Unknown		Finished
63	2708020574_1/2	IEUA SAR@RIV ROA	2.0000	Unknown		Finished
64	2708020575_1/2	IEUA SAR@VANBUREN	2.0000	Unknown		Finished
65	2708020576_1/2	IEUA MILLCK@CHINO	2.0000	Unknown		Finished
66	2707310176_1/100	KM PC-133	100.0000	Unknown	RR	Finished
67	2707310397_50000	KM PC-129	50000.0000	Unknown	RR	Finished
68	HCV	100	1.0000	Unknown	100	Finished
69	STOP		1.0000	Unknown		Interrupted

Sequence: 080407-CLO4-IC11
Operator: clv

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Printed: 8/7/2007 12:52:02 PM

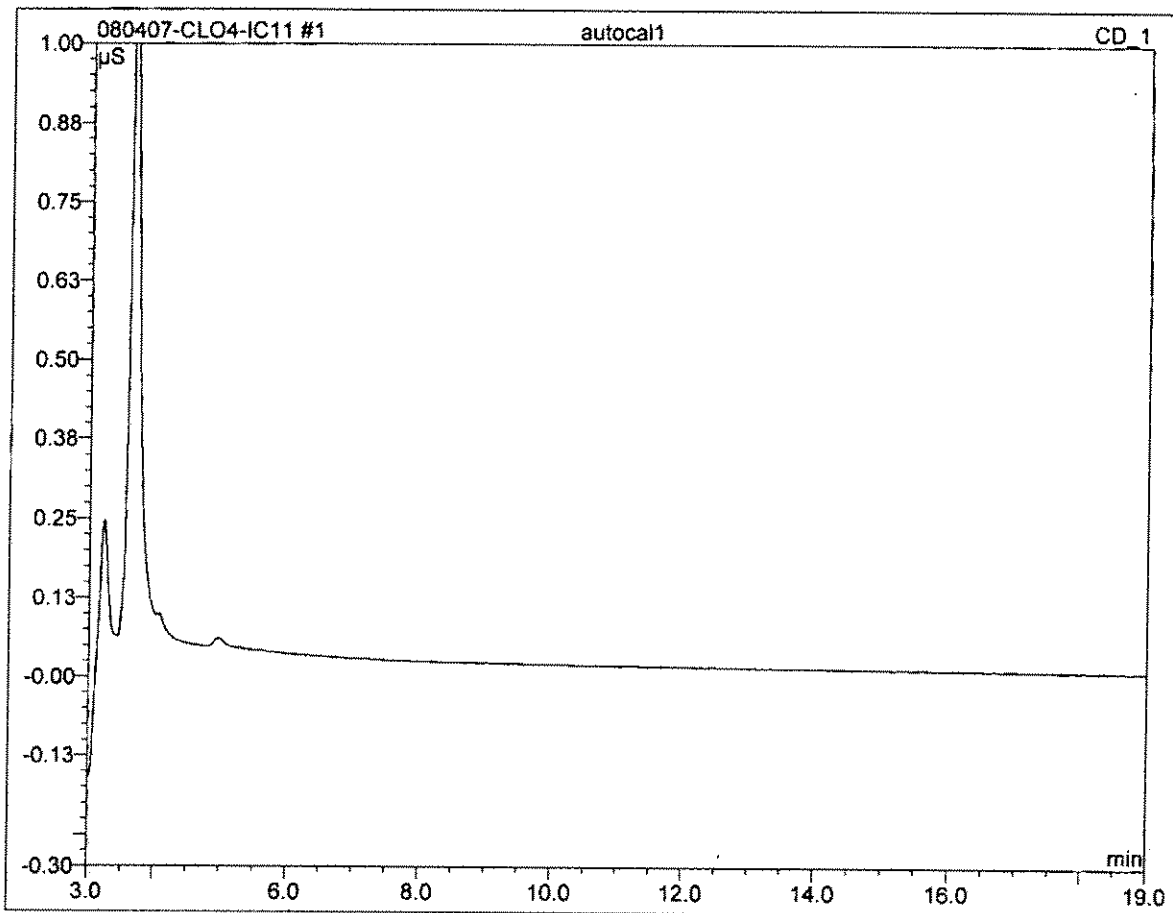
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Datasource: Dionex_USPAS2SDIO2
Location: IC11_CLO4\2007AUG
Timebase: IC11
#Samples: 69

Created: 8/3/2007 2:06:55 PM by clv
Last Update: 8/6/2007 9:22:03 AM by clv

No.	Name	Program	Method	Inj. Date/Time	*Analyst
43	-LCS1	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 12:32:52 AM	clv
44	-LCS2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 12:55:16 AM	clv
45	2708020325_1/1000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 1:17:40 AM	clv
46	2708020326_1/2000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 1:40:04 AM	clv
47	2708020327_1/2000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 2:02:27 AM	clv
48	2708020328_1/5000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 2:24:51 AM	clv
49	2708020329_1/25000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 2:47:15 AM	clv
50	2708020330_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 3:09:39 AM	clv
51	2708020331_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 3:32:03 AM	clv
52	2708020332_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 3:54:27 AM	clv
53	2708020342_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 4:16:50 AM	clv
54	2708020342-MS	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 4:39:14 AM	clv
55	2708020342-MSD	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 5:01:38 AM	clv
56	2708020343_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 5:24:02 AM	clv
57	CCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 5:46:26 AM	clv
58	2708020344_1/100DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 6:08:50 AM	clv
59	2708020570_1/2DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 6:31:13 AM	clv
60	2708020571_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 6:53:37 AM	clv
61	2708020572_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 7:16:01 AM	clv
62	2708020573_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 7:38:25 AM	clv
63	2708020574_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 8:00:49 AM	clv
64	2708020575_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 8:23:13 AM	clv
65	2708020576_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 8:45:37 AM	clv
66	2707310176_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 9:08:01 AM	clv
67	2707310397_50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 9:30:39 AM	clv
68	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/5/2007 9:53:02 AM	clv
69	STOP	IC11 Stop	IC#4-CLO4-LOW	8/5/2007 10:15:26 AM	clv

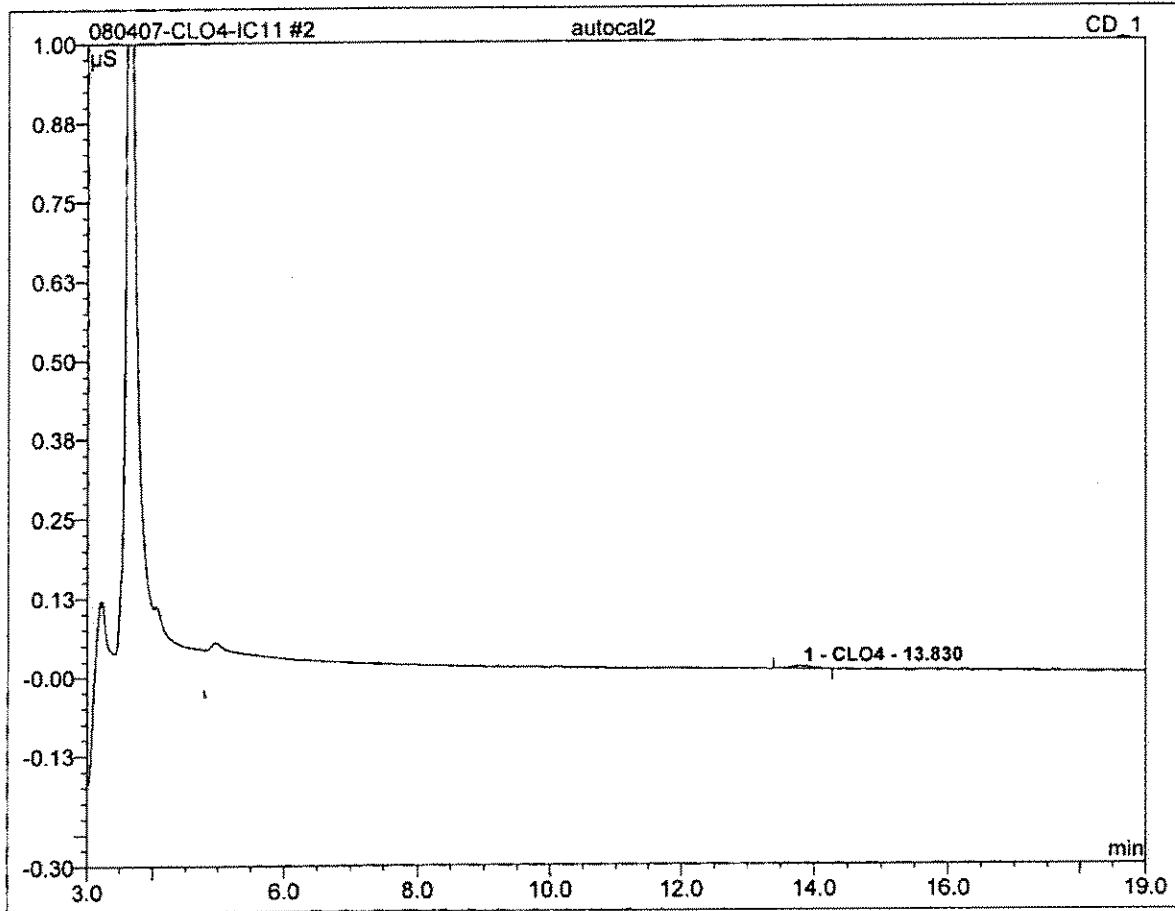
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1 autocal1			
0			
Sample Name:	autocal1	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 09:38	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



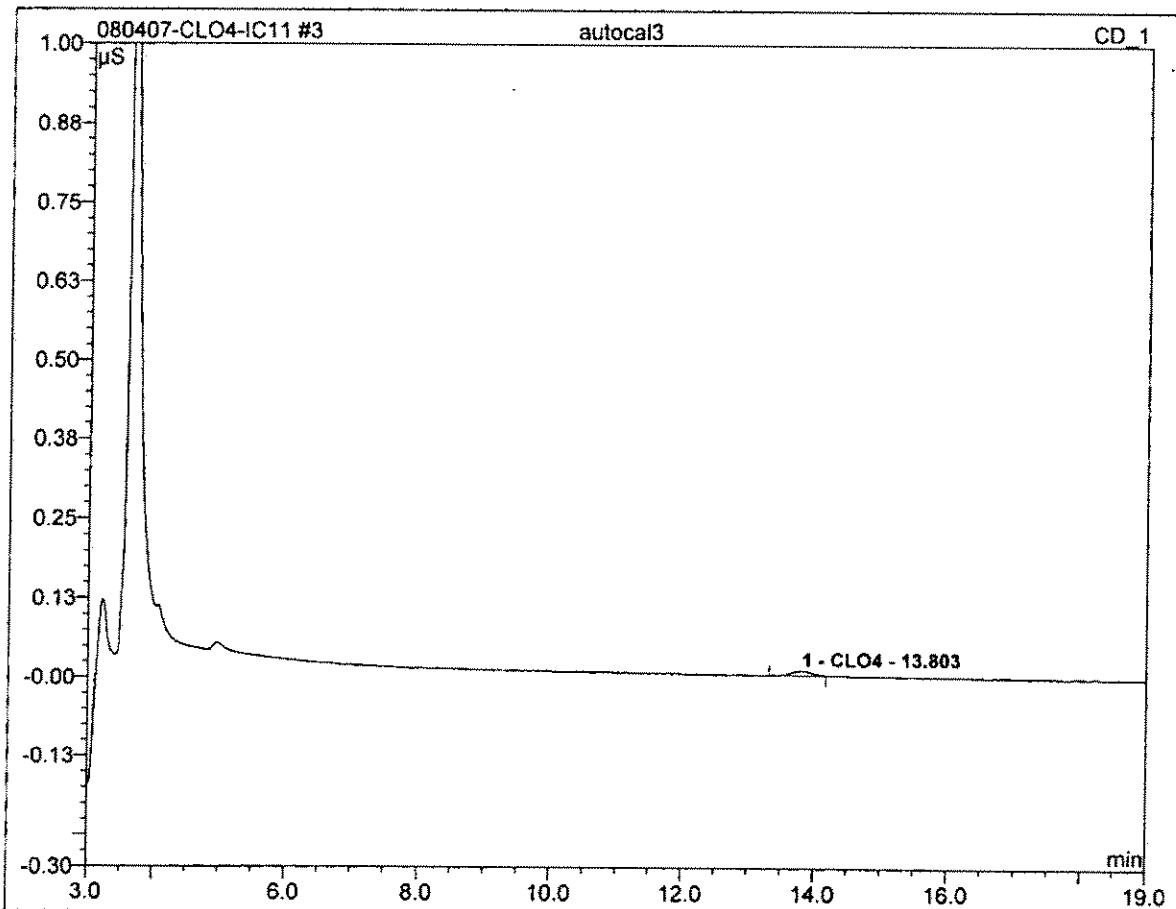
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 autocal2			
2			
Sample Name:	autocal2	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 10:01	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



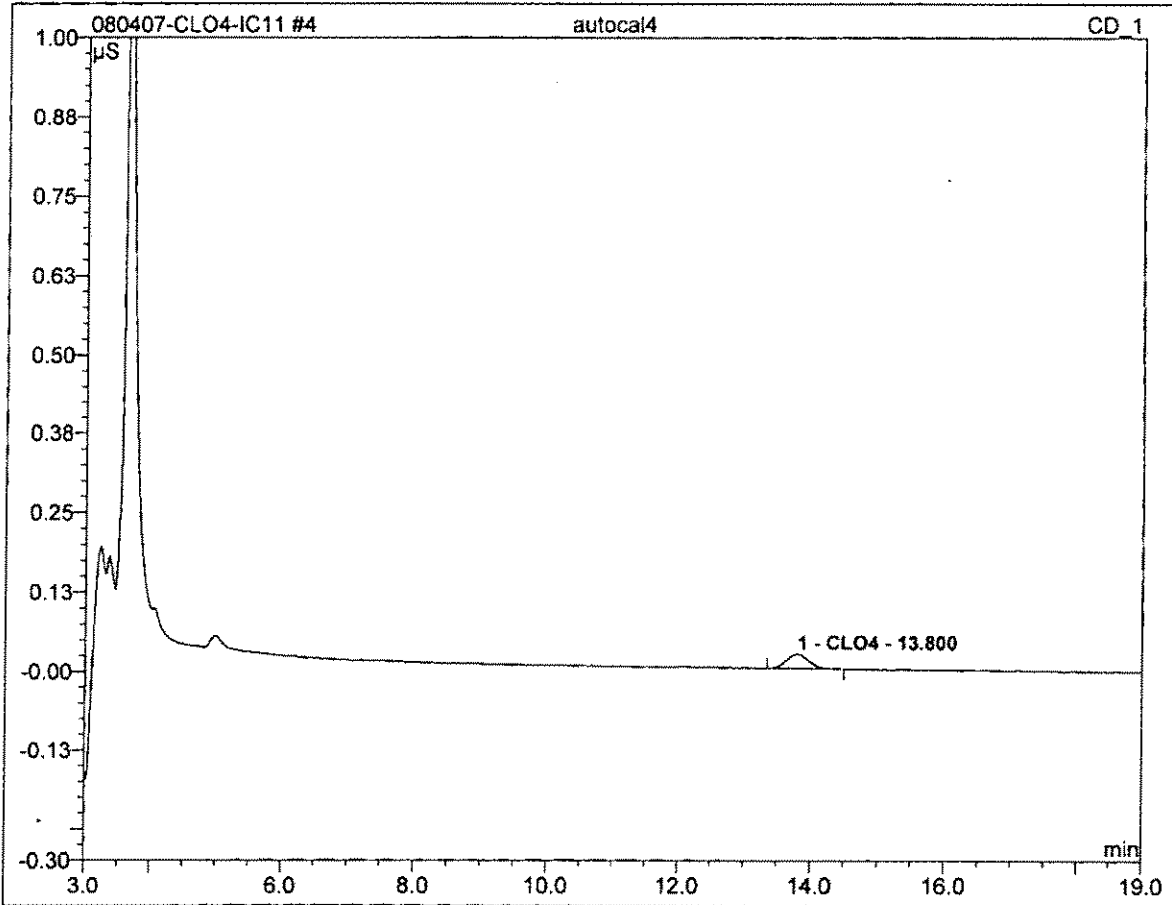
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.83	CLO4	0.004	0.002	100.00	2.225	BMB
Total:			0.004	0.002	100.00	2.225	

3 autocal3			
4			
Sample Name:	autocal3	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 10:23	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



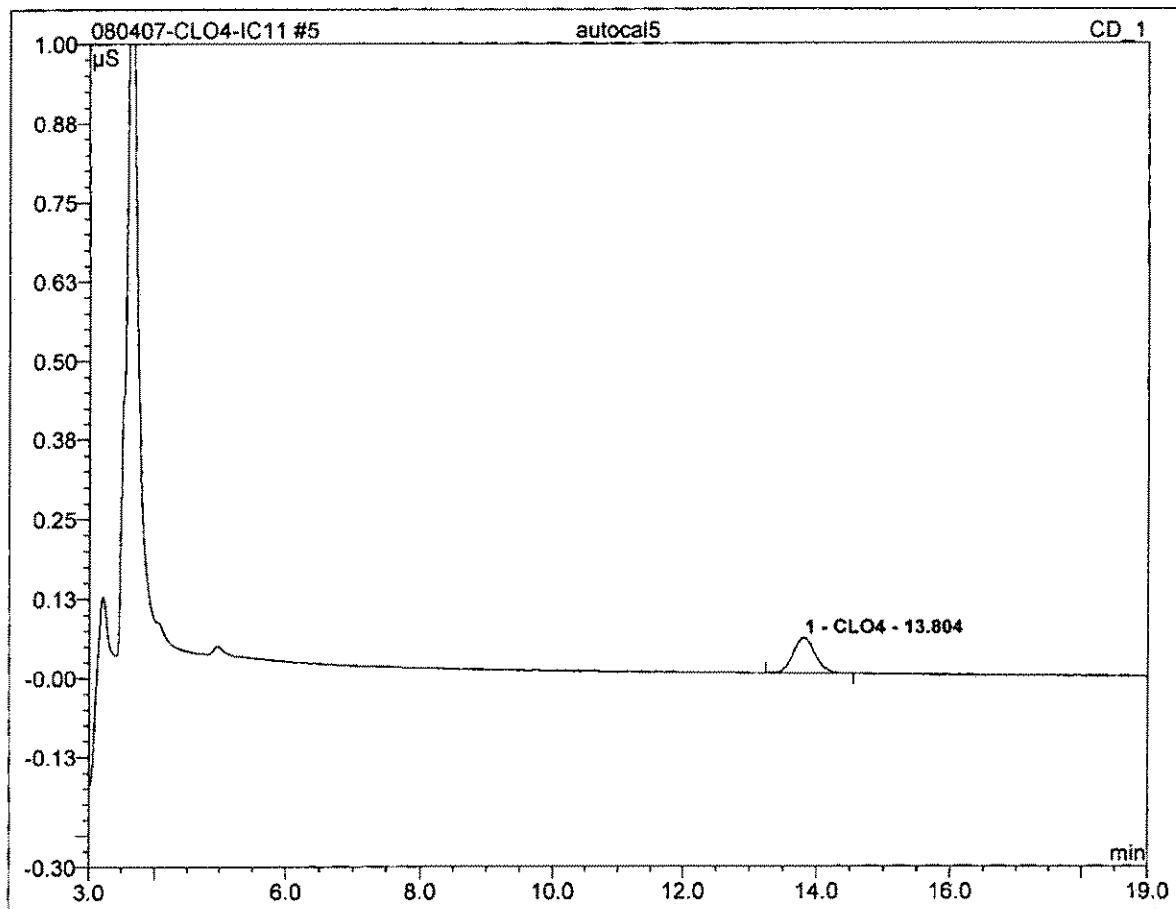
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.80	CLO4	0.008	0.003	100.00	3.631	BMB
Total:			0.008	0.003	100.00	3.631	

4 autocal4			
10			
Sample Name:	autocal4	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 10:45	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



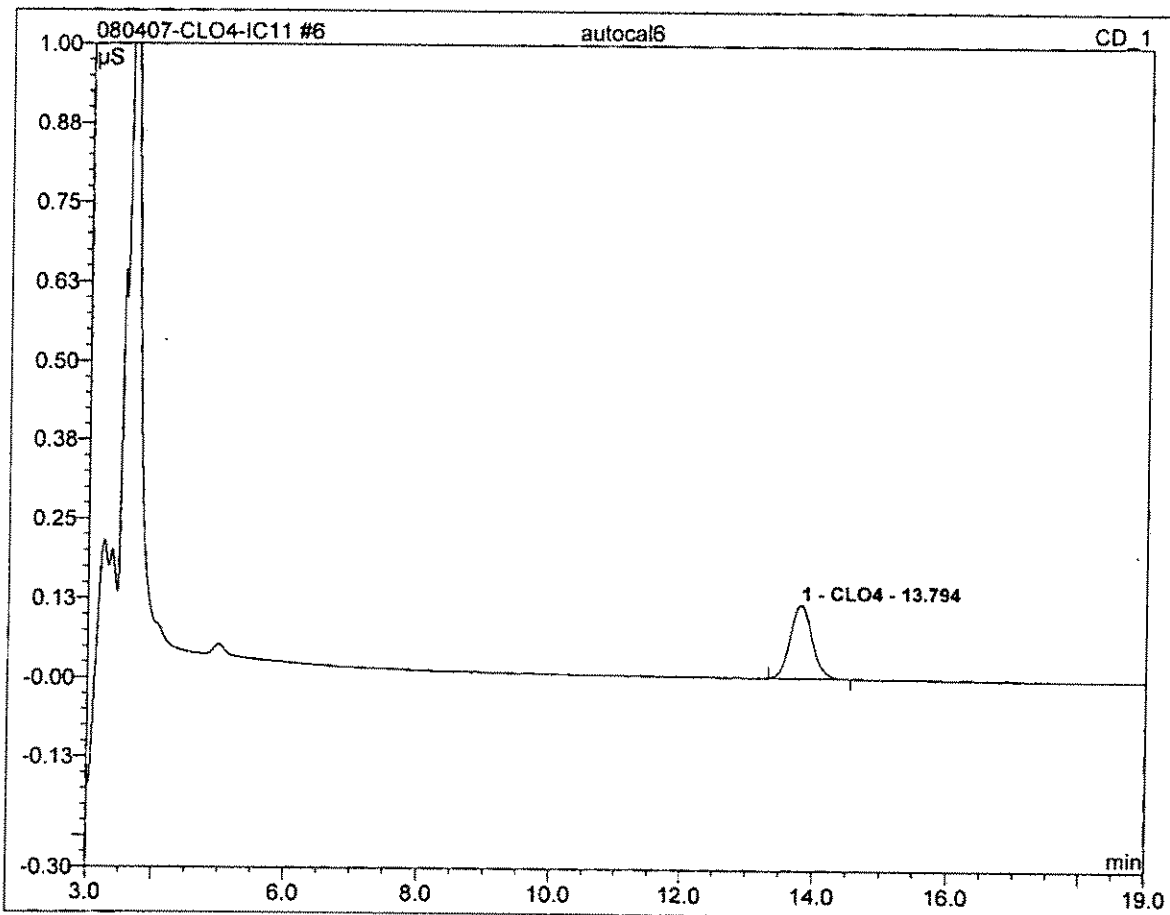
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.80	CLO4	0.023	0.009	100.00	10.334	BMB
Total:			0.023	0.009	100.00	10.334	

5 autocal5			
25			
Sample Name:	autocal5	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 11:08	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



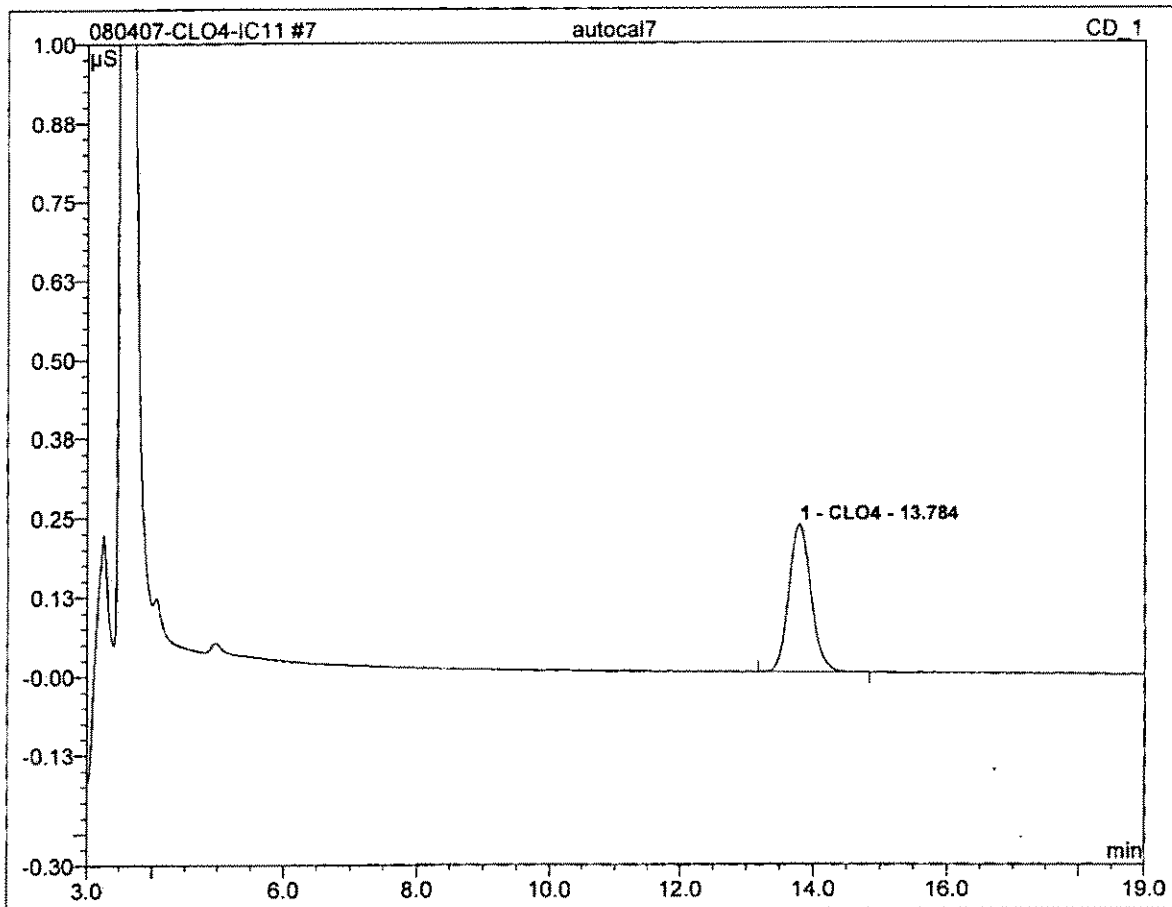
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.80	CLO4	0.056	0.021	100.00	24.664	BMB
Total:			0.056	0.021	100.00	24.664	

6 autocal6			
50			
Sample Name:	autocal6	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 11:30	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



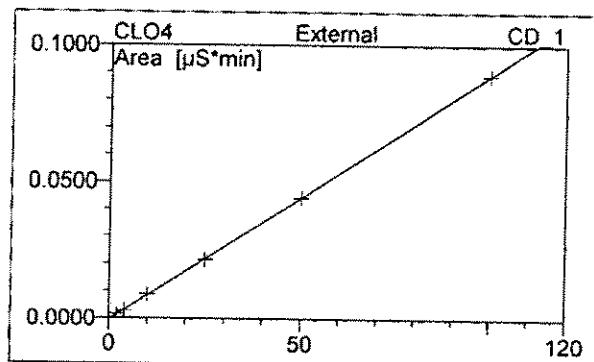
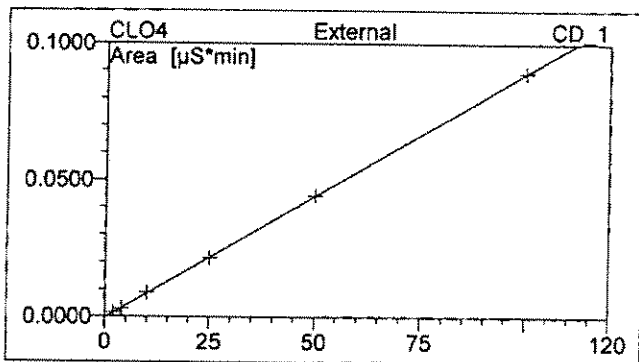
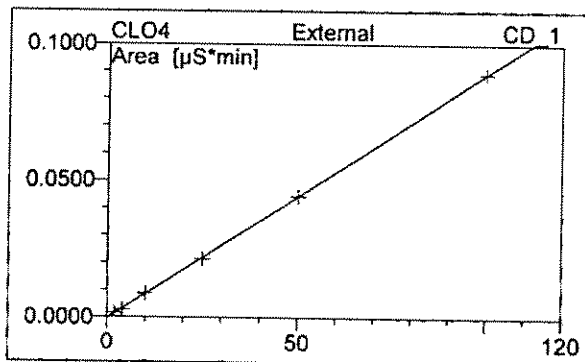
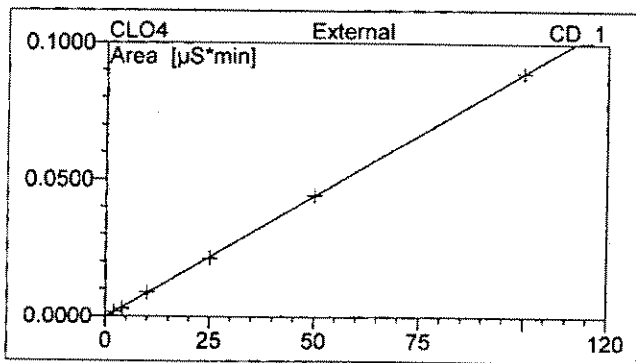
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	13.79	CLO4	0.116	0.044	100.00	50.170	BMB
Total:			0.116	0.044	100.00	50.170	

7 autocal7			
100			
Sample Name:	autocal7	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 11:53	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



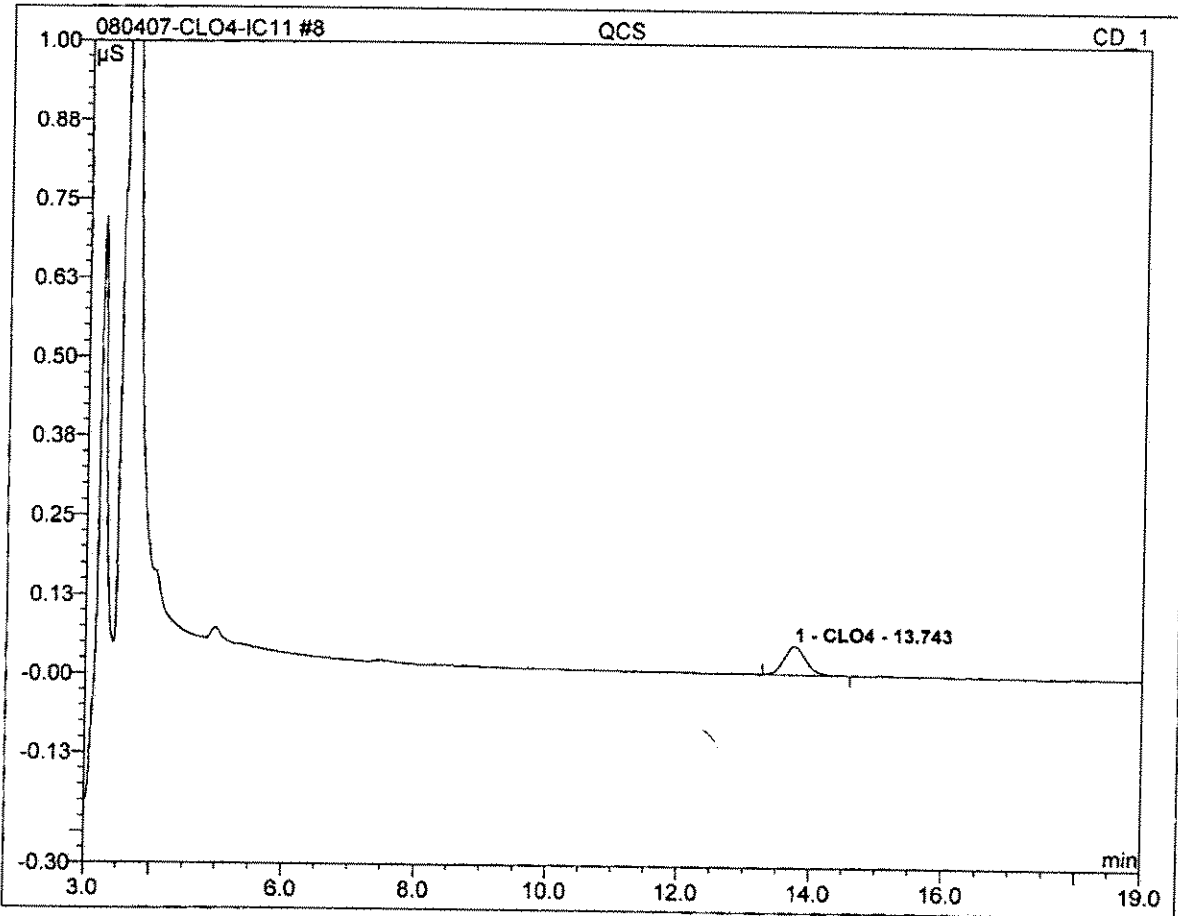
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	13.78	CLO4	0.233	0.089	100.00	99.976	BMB
Total:			0.233	0.089	100.00	99.976	

7 autocal7	
100	
Sample Name: autocal7	Injection Volume: 20.0
Vial Number: 109	Channel: CD_1
Sample Type: standard	Wavelength: n.a.
Control Program: Perchlorate-IC11	Bandwidth: n.a.
Quantif. Method: IC#4-CLO4-LOW	Dilution Factor: 1.0000
Recording Time: 8/2/2007 11:53	Sample Weight: 1.0000
Run Time (min): 20.00	Sample Amount: 1.0000



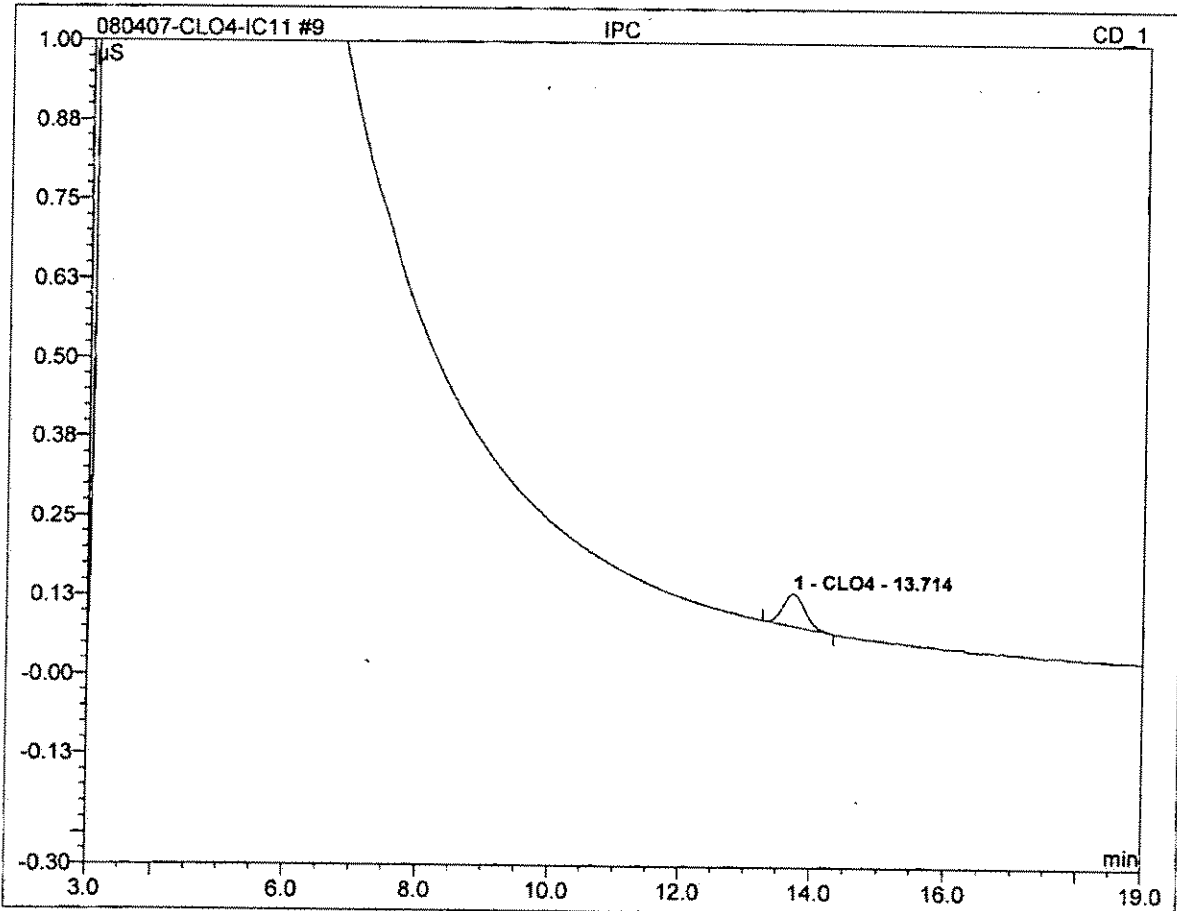
No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	13.78	CLO4	QOff	6	99.9966	-0.0005	0.0009	0.0000
Average:					99.9966	-0.0005	0.0009	0.0000

8 QCS			
20			
Sample Name:	QCS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 11:28	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.045	0.017	100.00	20.149	BMB
Total:			0.045	0.017	100.00	20.149	

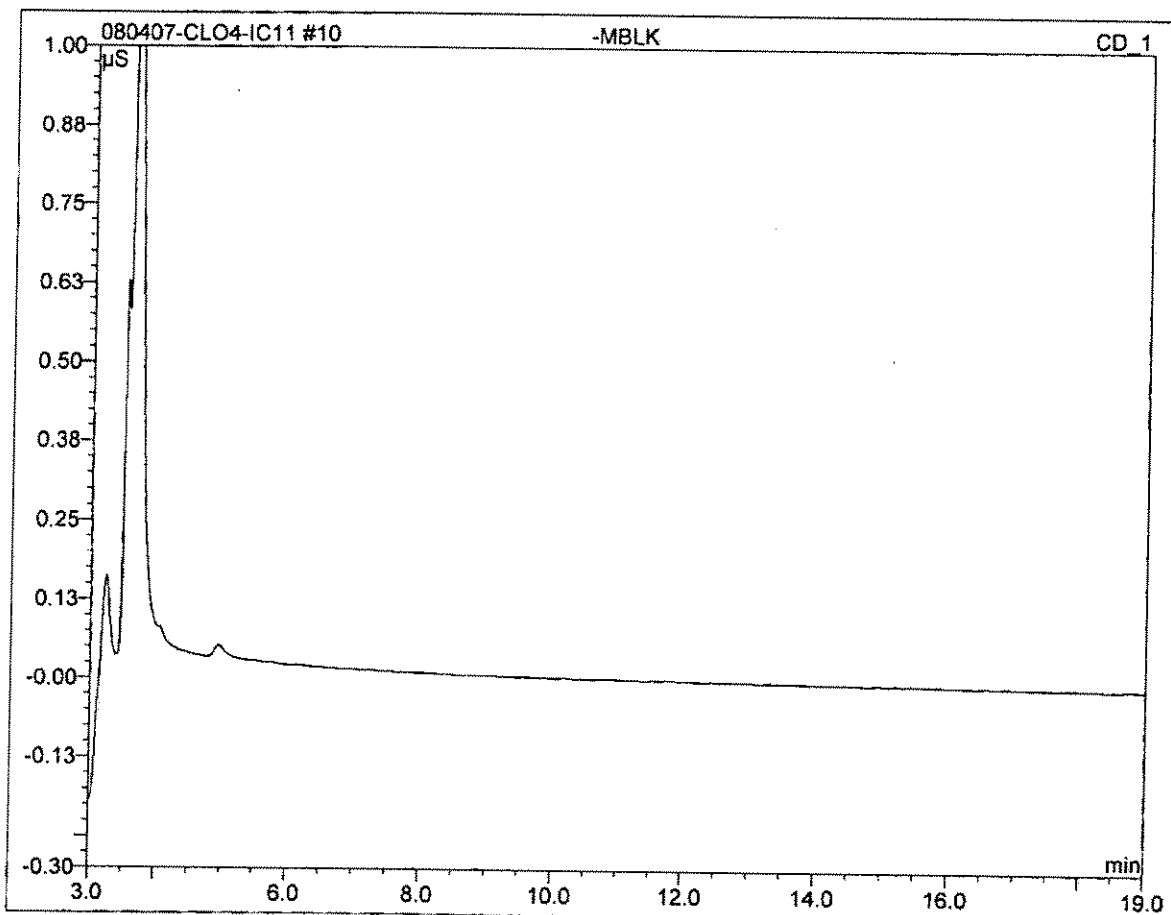
9 IPC			
25			
Sample Name:	IPC	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 11:51	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.052	0.020	100.00	23.016	BMB
Total:			0.052	0.020	100.00	23.016	

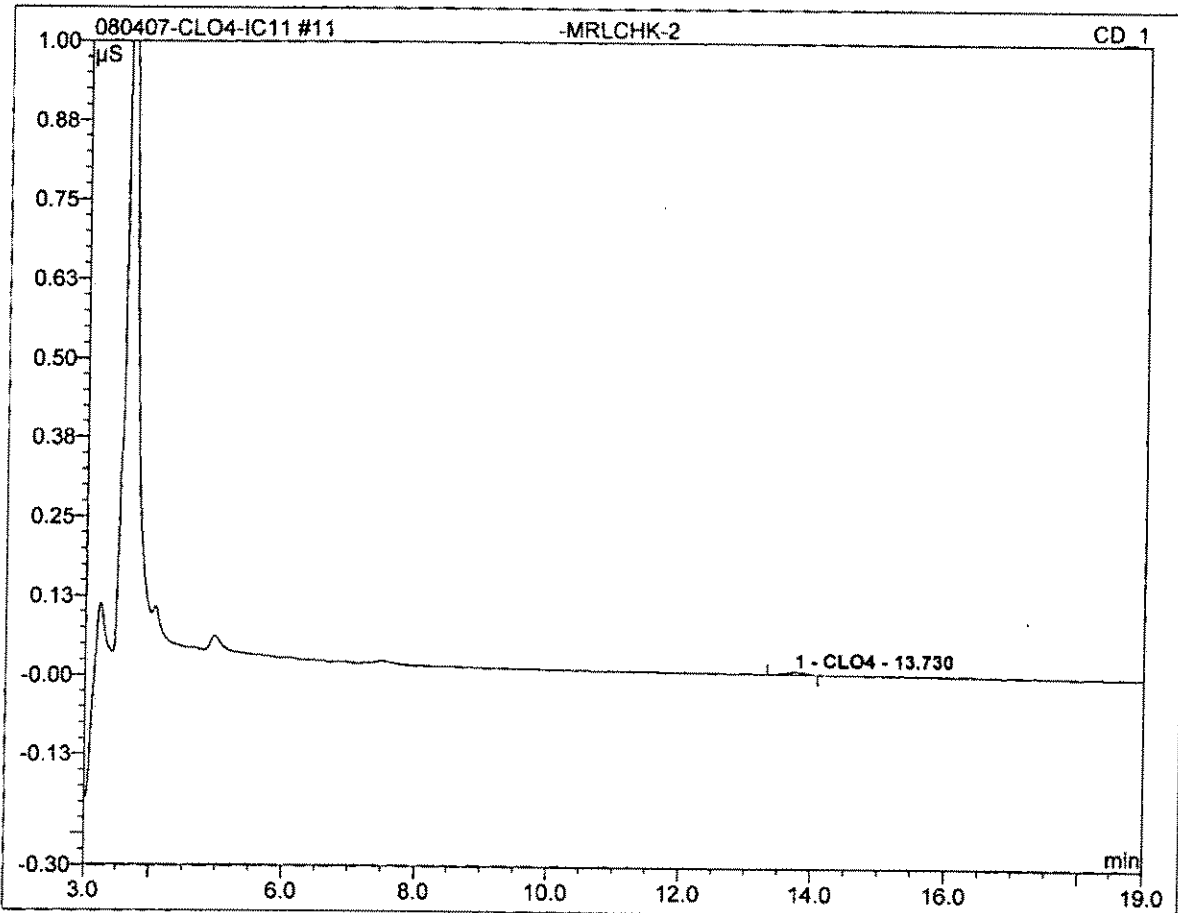
10 -MBLK

Sample Name:	-MBLK	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 12:13	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	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	

11 -MRLCHK-2			
2			
Sample Name:	-MRLCHK-2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 12:36	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000

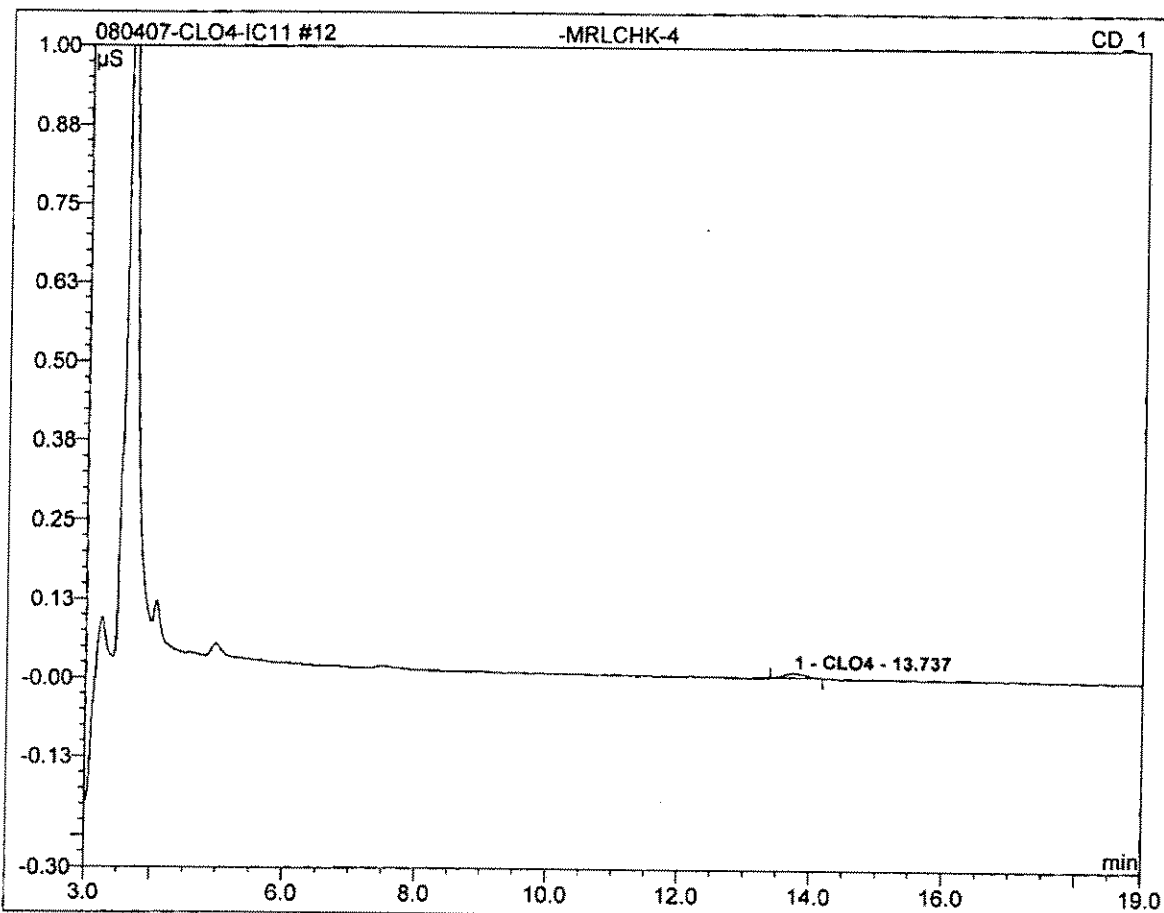


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.005	0.002	100.00	2.413	BMB
Total:			0.005	0.002	100.00	2.413	

12 -MRLCHK-4

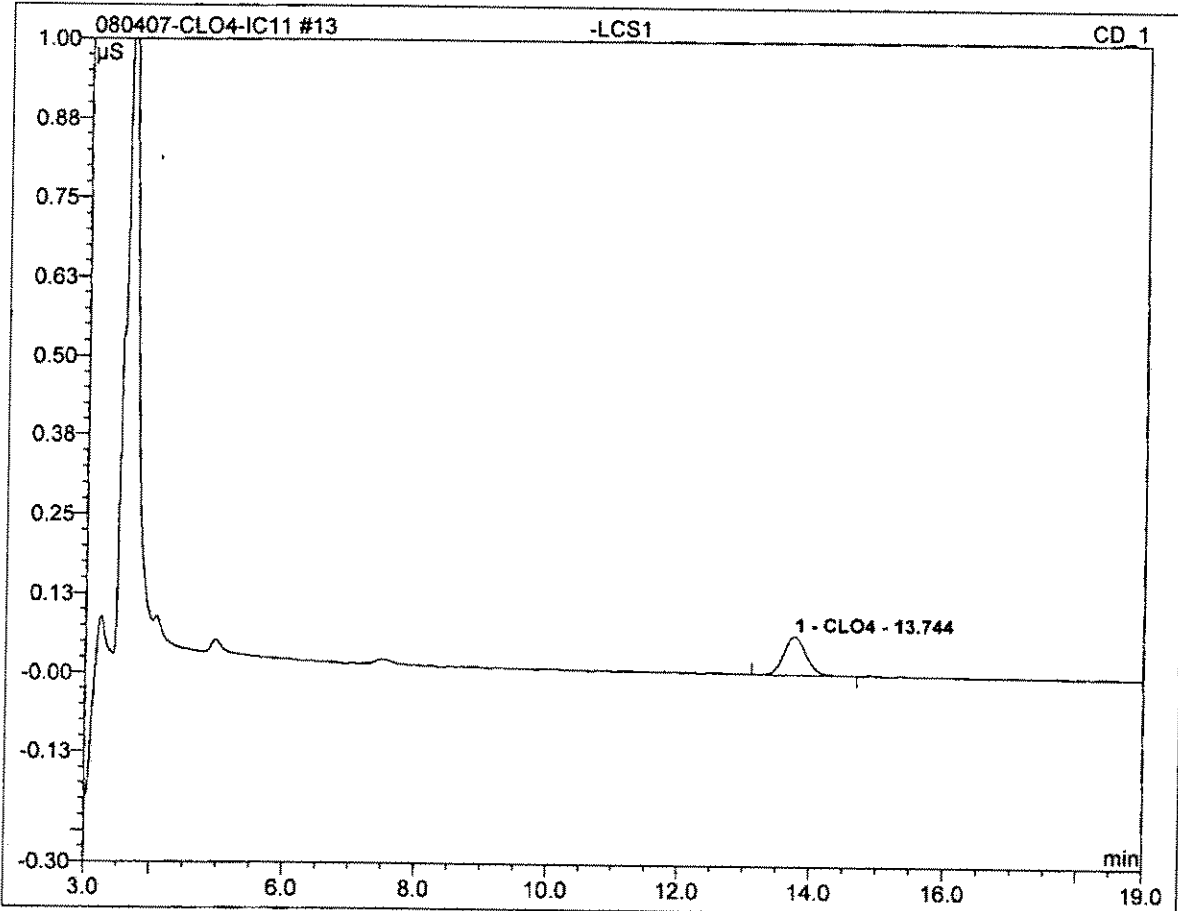
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Sample Name:	-MRLCHK-4	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 12:58	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.008	0.003	100.00	3.747	BMB
Total:			0.008	0.003	100.00	3.747	

13 -LCS1			
25			
Sample Name:	-LCS1	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 13:20	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000

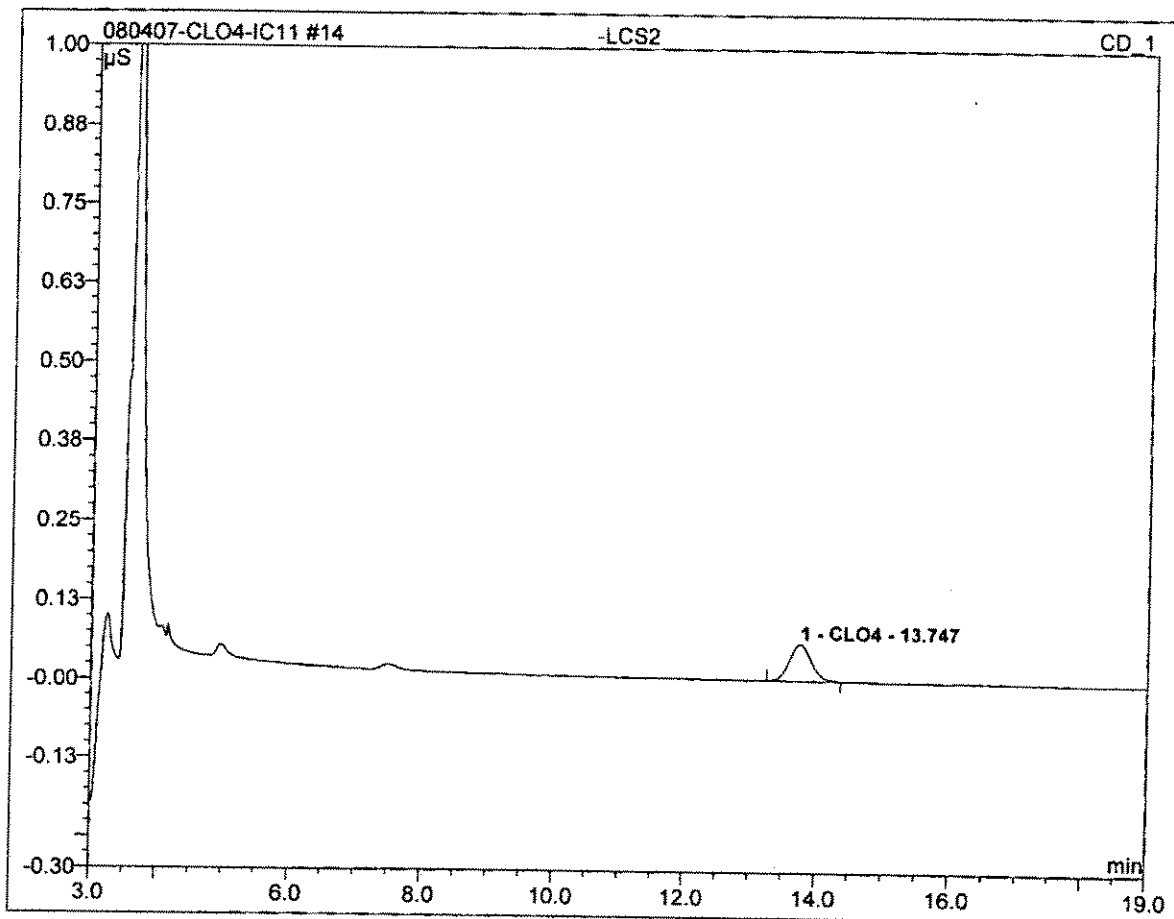


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.061	0.024	100.00	27.144	BMB
Total:			0.061	0.024	100.00	27.144	

14 -LCS2

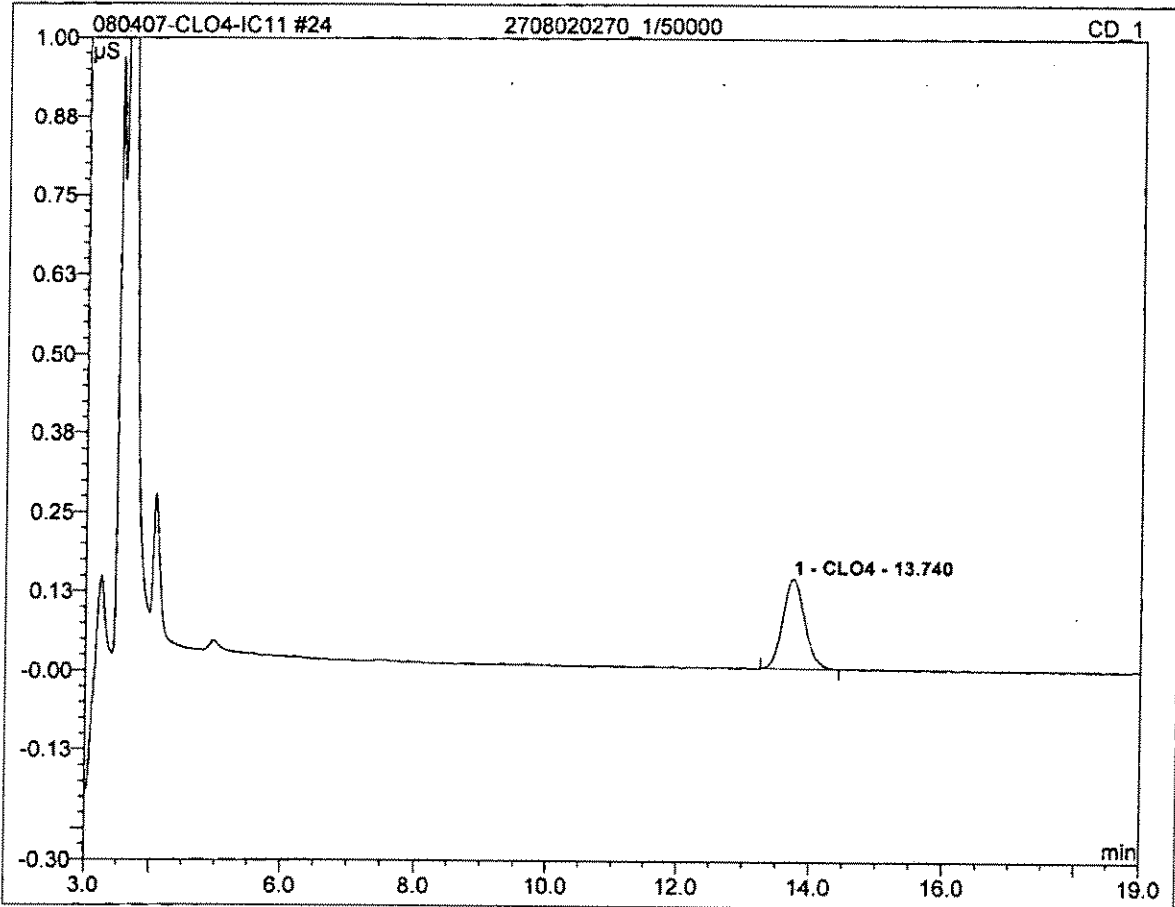
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Sample Name:	-LCS2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 13:43	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.75	CLO4	0.058	0.022	100.00	25.547	BMB
Total:			0.058	0.022	100.00	25.547	

24 2708020270_1/50000			
Sample Name:	2708020270_1/50000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 17:27	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000

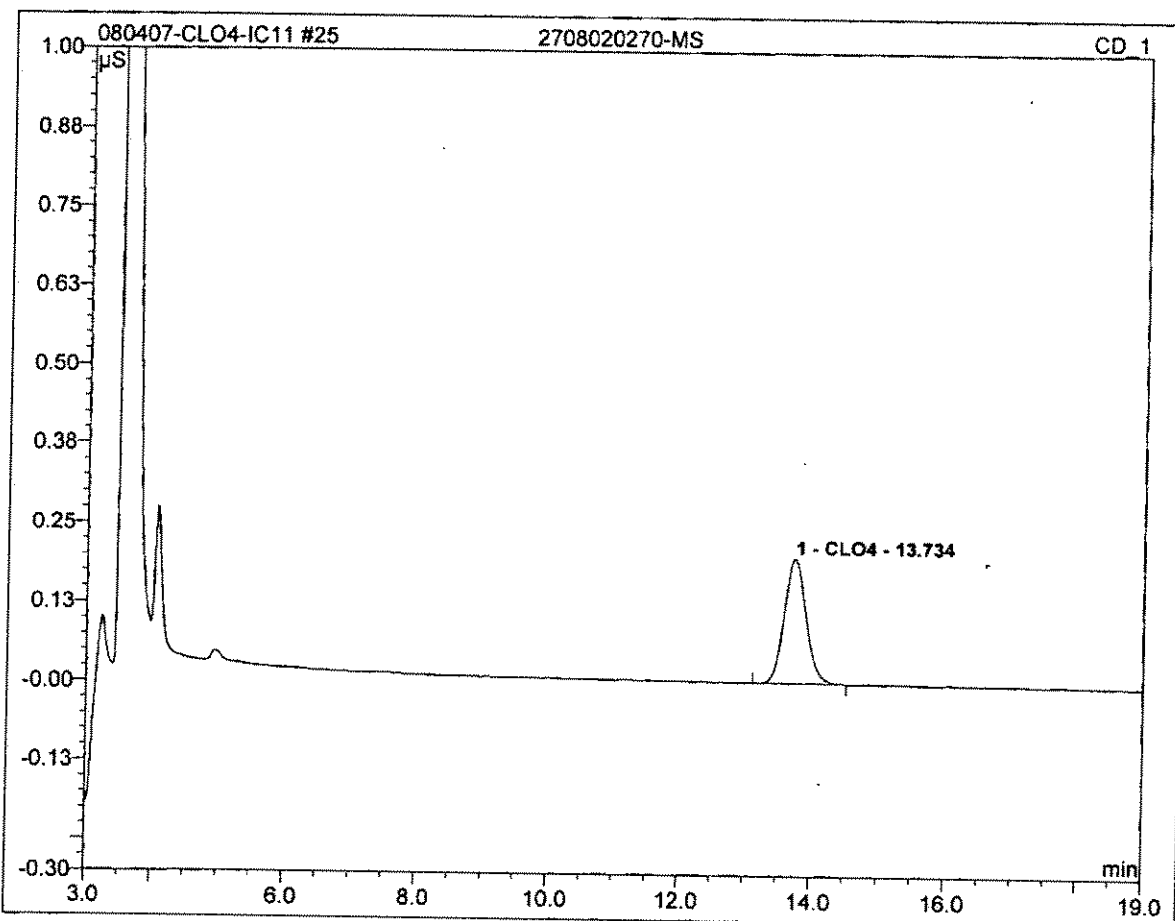


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.142	0.054	100.00	3059346.711	BMB
Total:			0.142	0.054	100.00	3059346.711	

25 2708020270-MS

25

Sample Name:	2708020270-MS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 17:49	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000

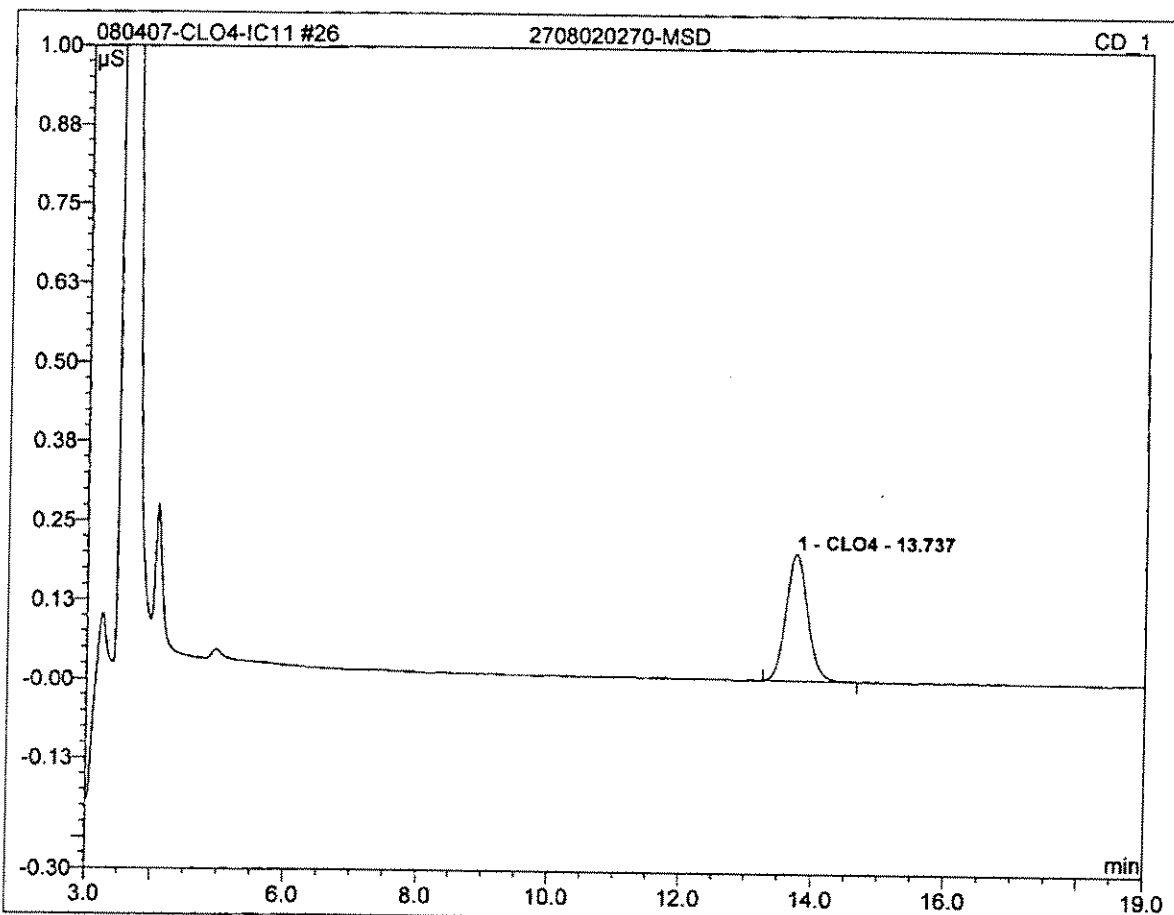


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.196	0.075	100.00	4215746.128	BMB
Total:			0.196	0.075	100.00	4215746.128	

26 2708020270-MSD

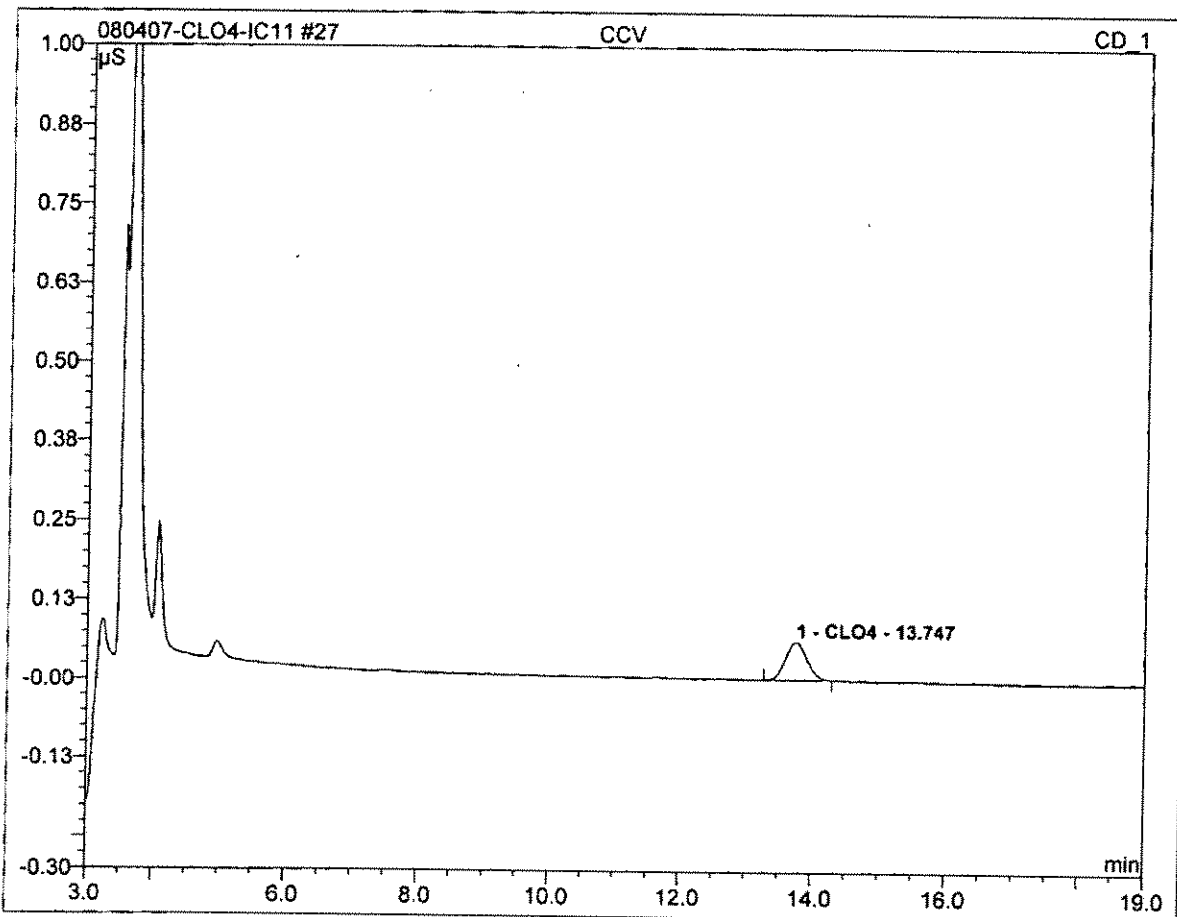
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Sample Name:	2708020270-MSD	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 18:12	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000



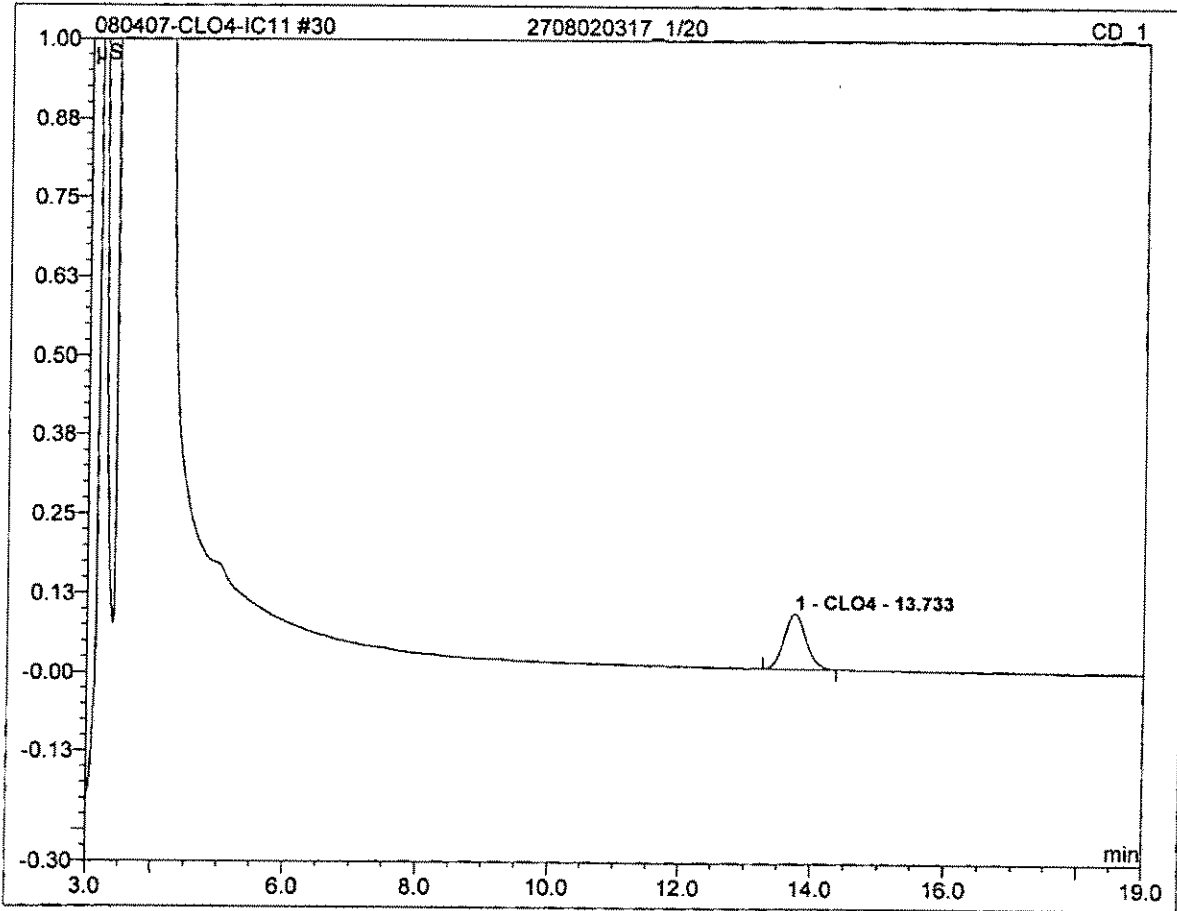
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	13.74	CLO4	0.200	0.076	100.00	4275779.645	BMB
Total:			0.200	0.076	100.00	4275779.645	

27 CCV			
25			
Sample Name:	CCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 18:34	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



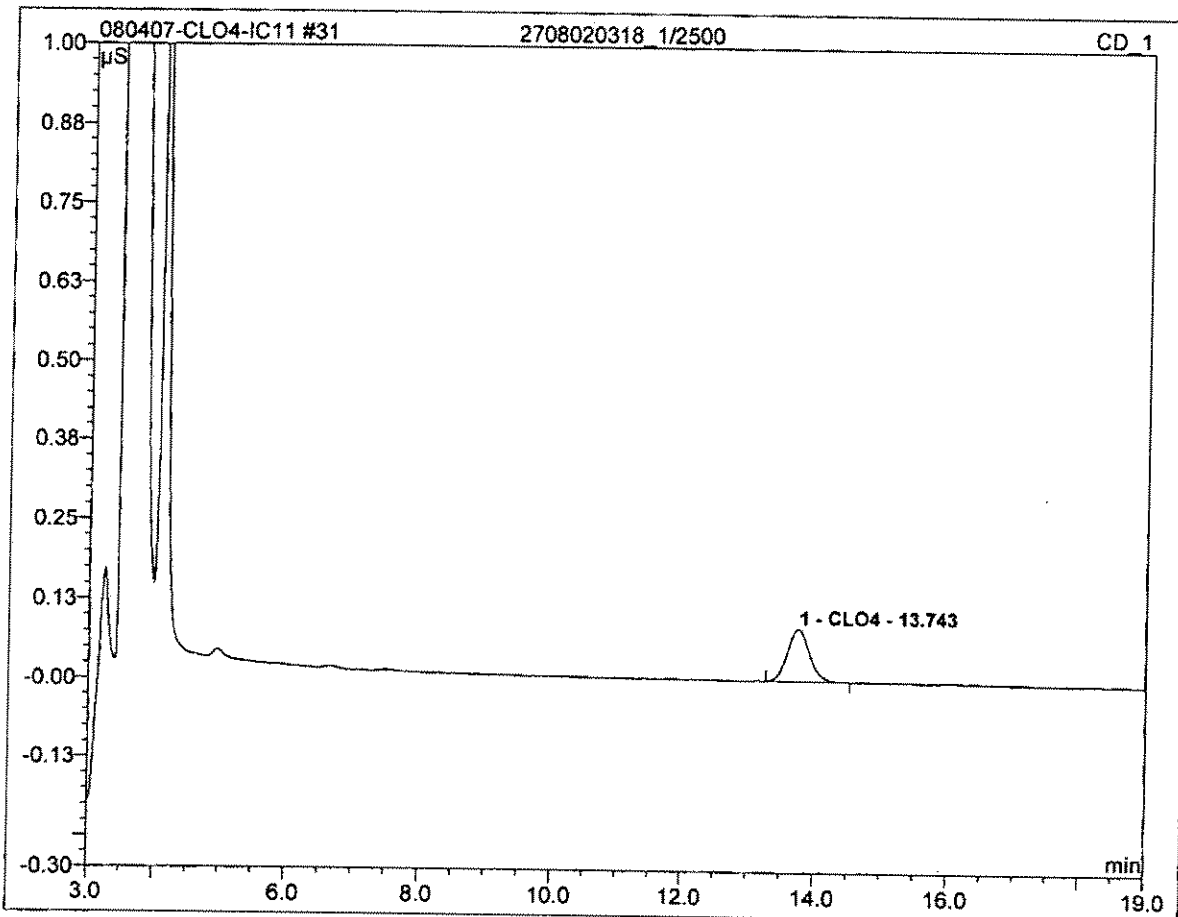
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.75	CLO4	0.060	0.022	100.00	25.578	BMB
Total:			0.060	0.022	100.00	25.578	

30 2708020317_1/20			
Sample Name:	2708020317_1/20	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 19:41	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	20.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.087	0.033	100.00	752.500	BMB
Total:			0.087	0.033	100.00	752.500	

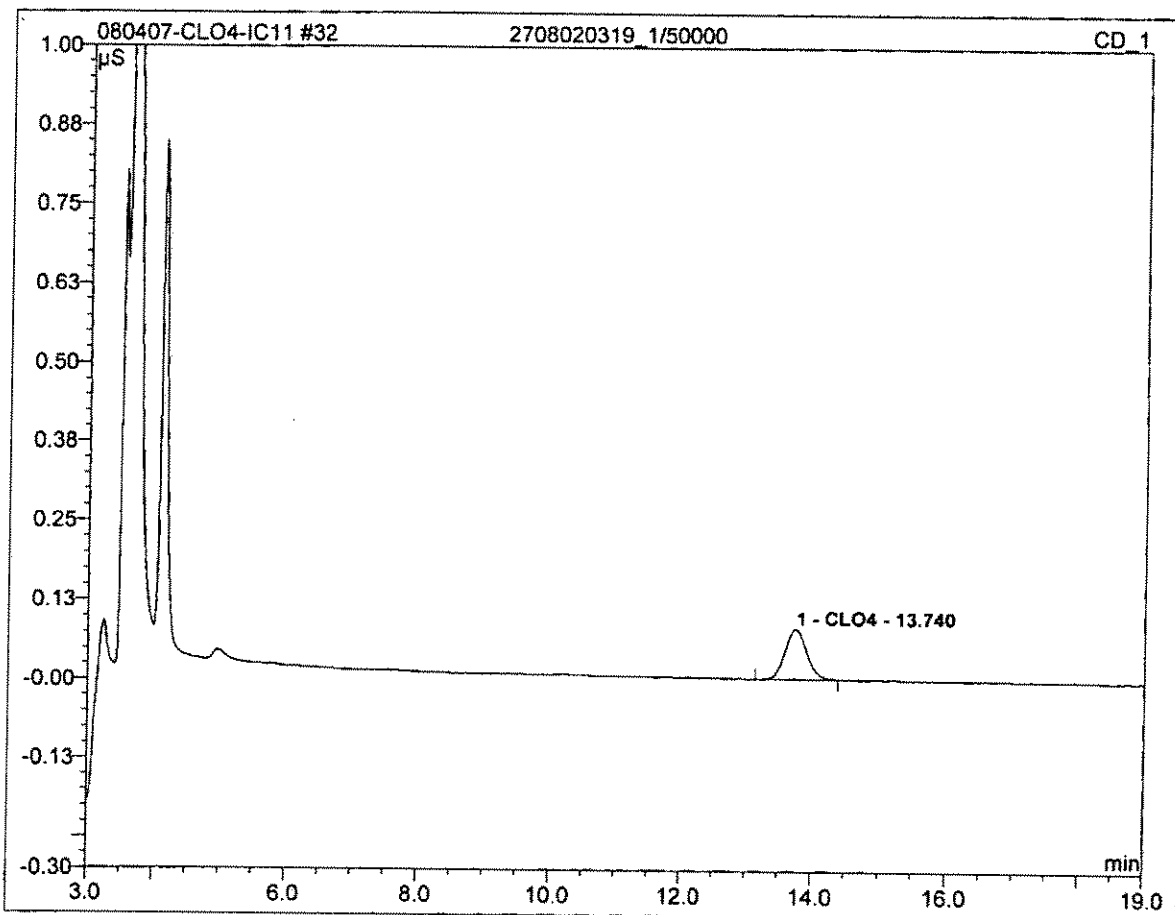
31 2708020318_1/2500			
Sample Name:	2708020318_1/2500	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 20:04	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	2500.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.082	0.031	100.00	89208.496	BMB
Total:			0.082	0.031	100.00	89208.496	

32 2708020319_1/50000

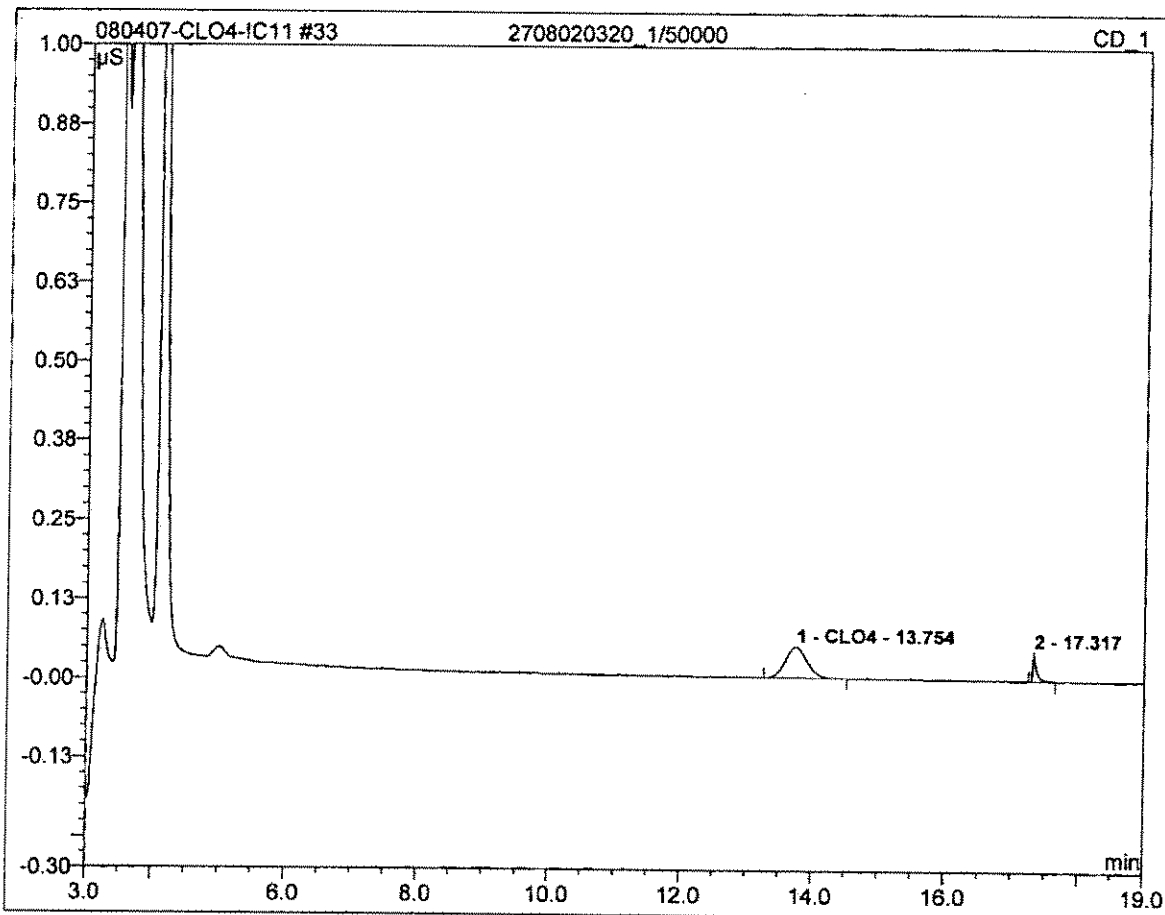
Sample Name:	2708020319_1/50000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 20:26	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	13.74	CLO4	0.078	0.030	100.00	1708545.368	BMB
Total:			0.078	0.030	100.00	1708545.368	

33 2708020320_1/50000

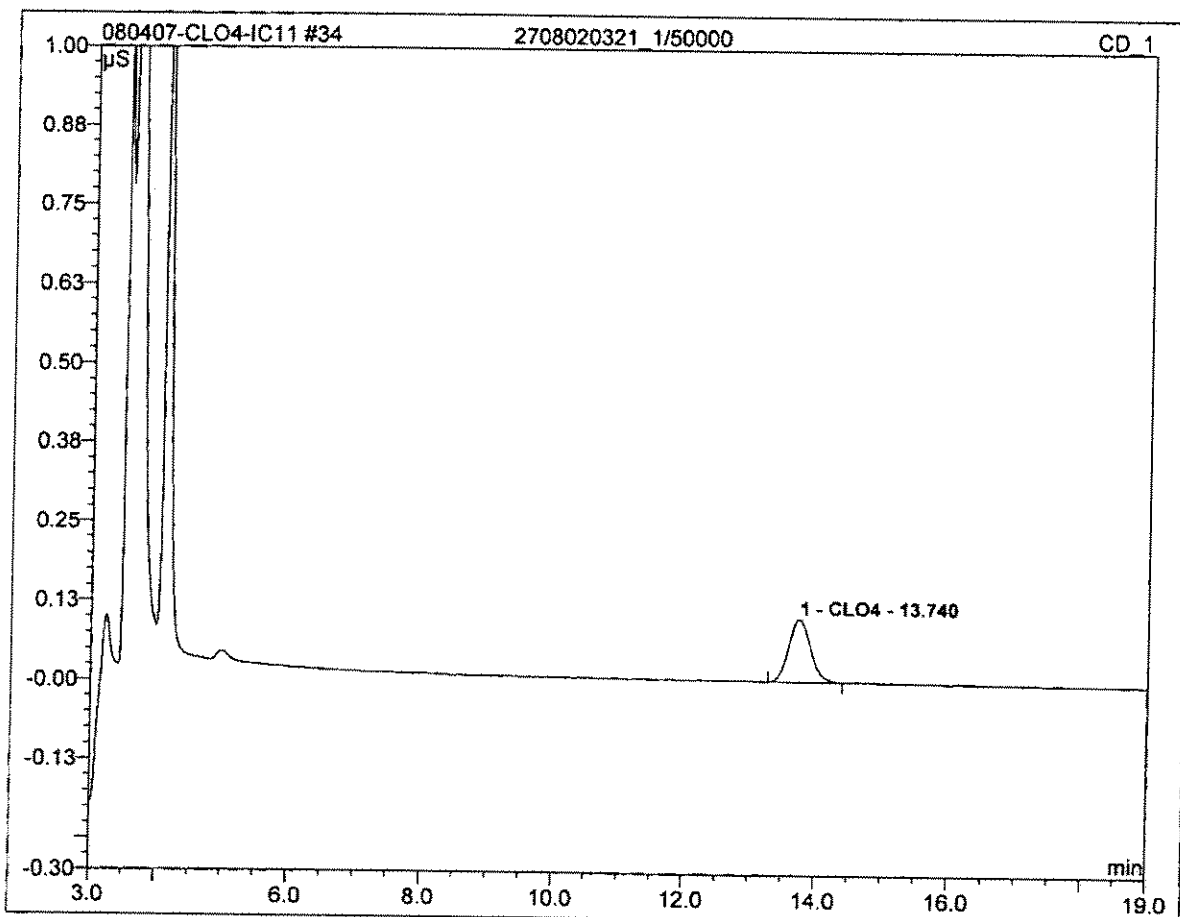
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Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 20:48	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	13.75	CLO4	0.048	0.019	85.38	1076751.208	BMB
Total:			0.048	0.019	85.38	1076751.208	

34 2708020321_1/50000

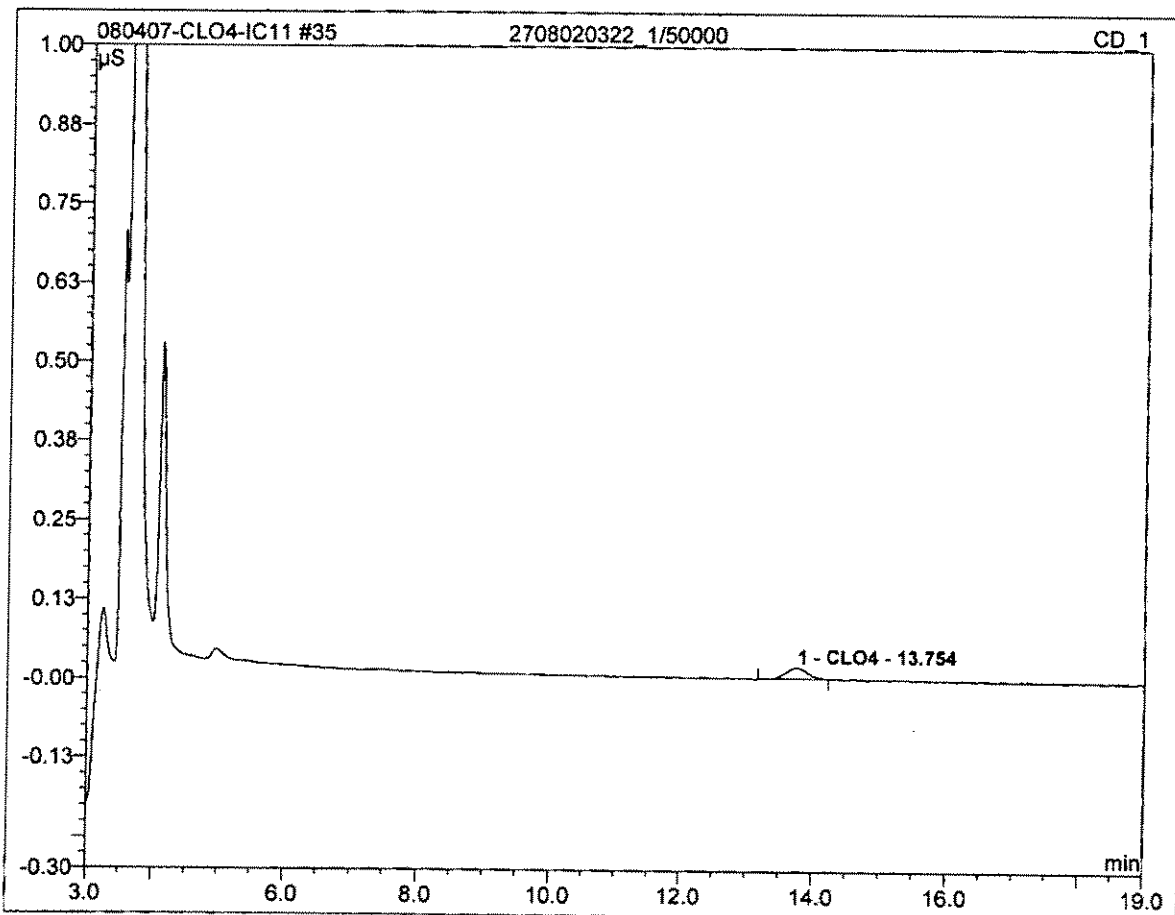
Sample Name:	2708020321_1/50000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 21:11	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.098	0.037	100.00	2130619.376	BMB
Total:			0.098	0.037	100.00	2130619.376	

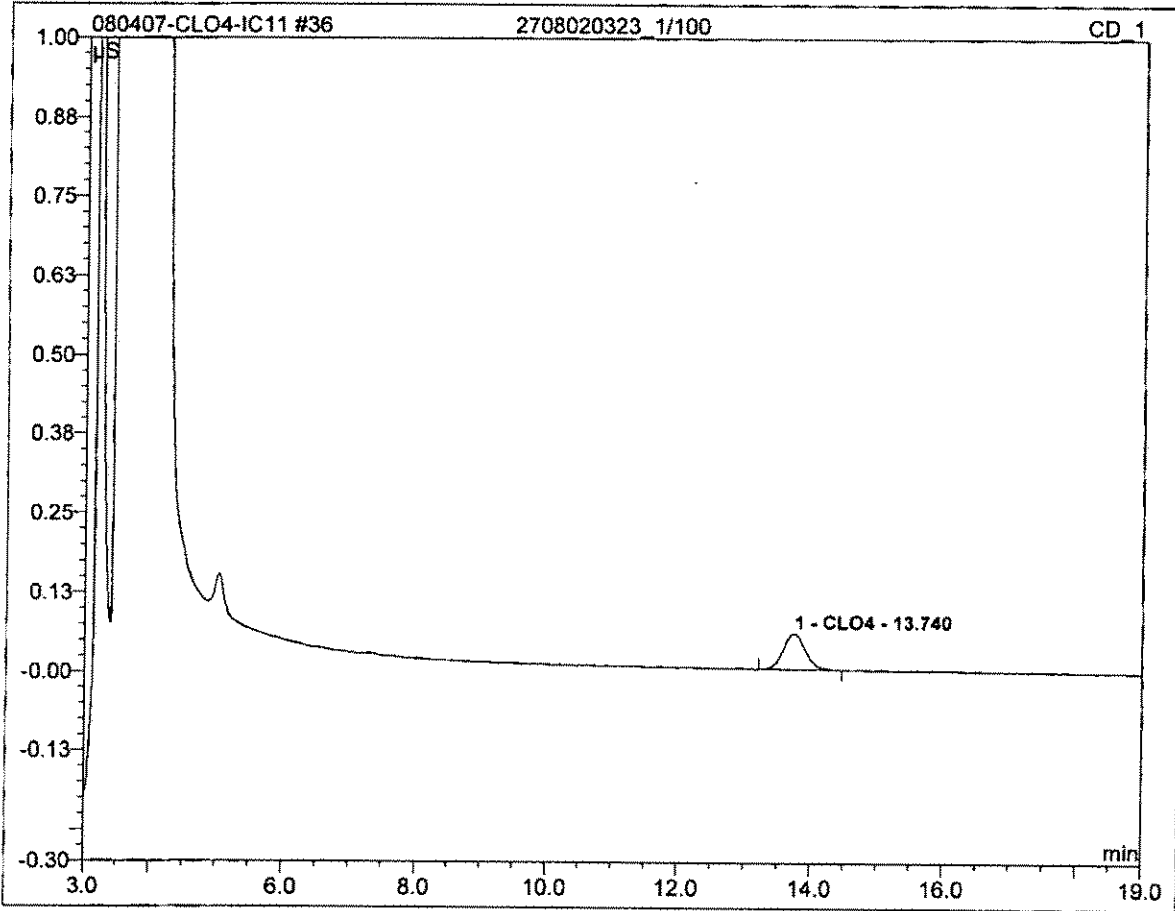
35 2708020322_1/50000

Sample Name:	2708020322_1/50000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 21:33	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000



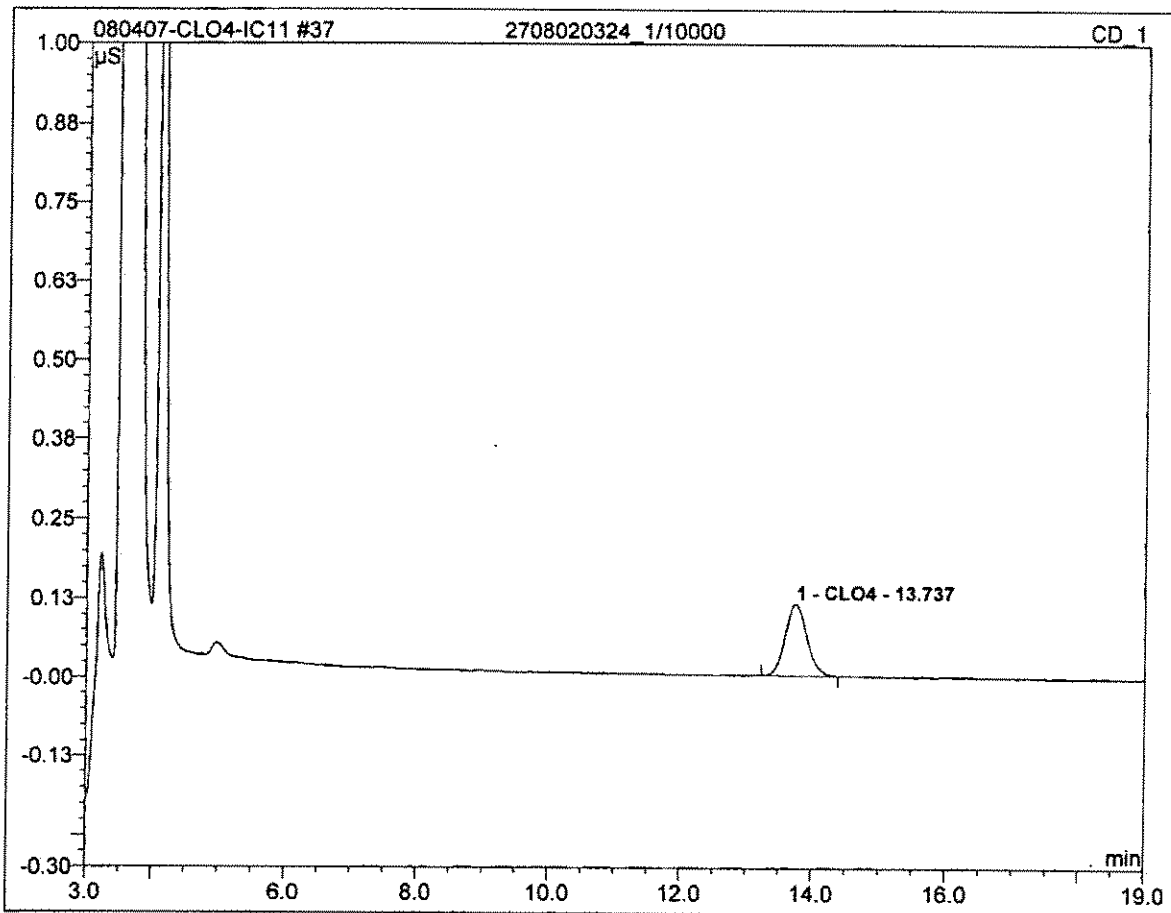
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.75	CLO4	0.018	0.007	100.00	406636.502	BMB
Total:			0.018	0.007	100.00	406636.502	

36 2708020323_1/100			
Sample Name:	2708020323_1/100	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 21:56	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	100.0000



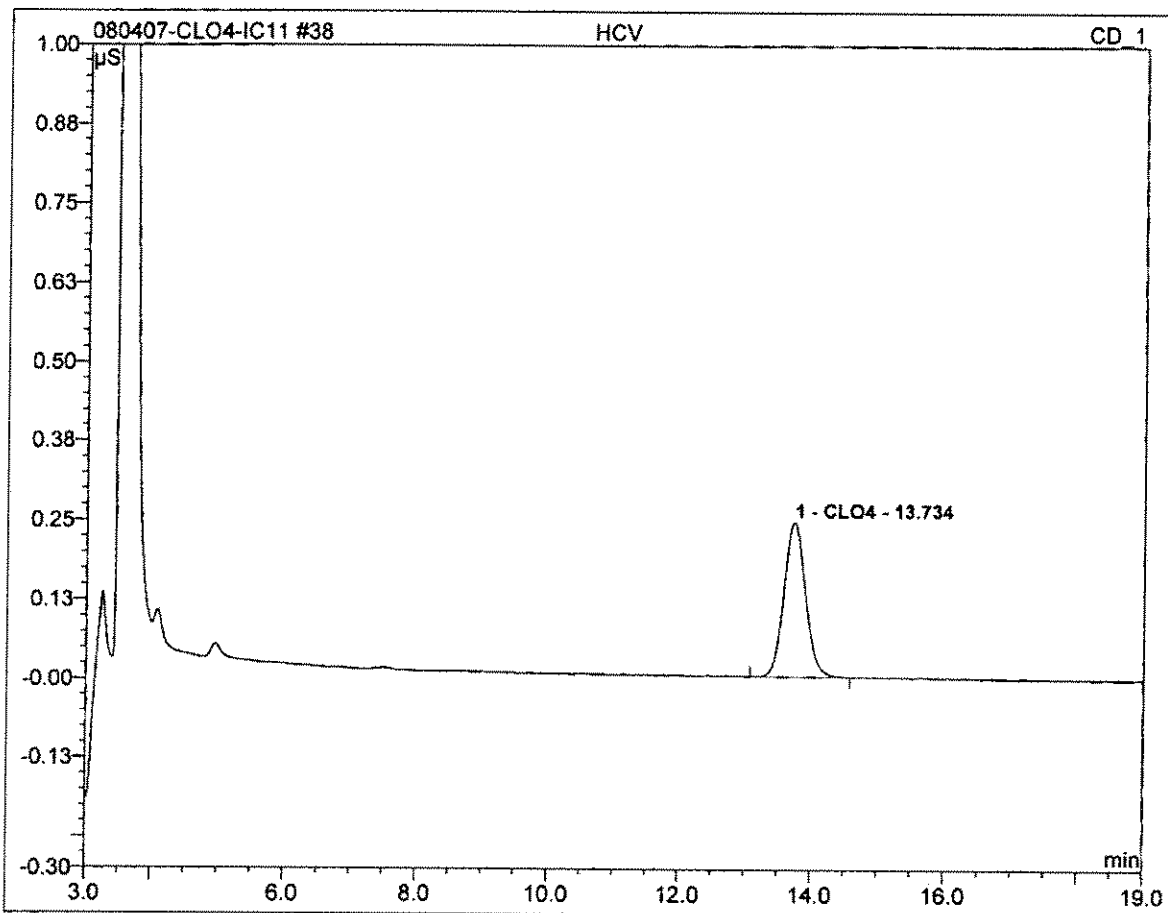
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.056	0.022	100.00	2492.158	BMB
Total:			0.056	0.022	100.00	2492.158	

37 2708020324_1/10000			
Sample Name:	2708020324_1/10000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 22:18	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	10000.0000



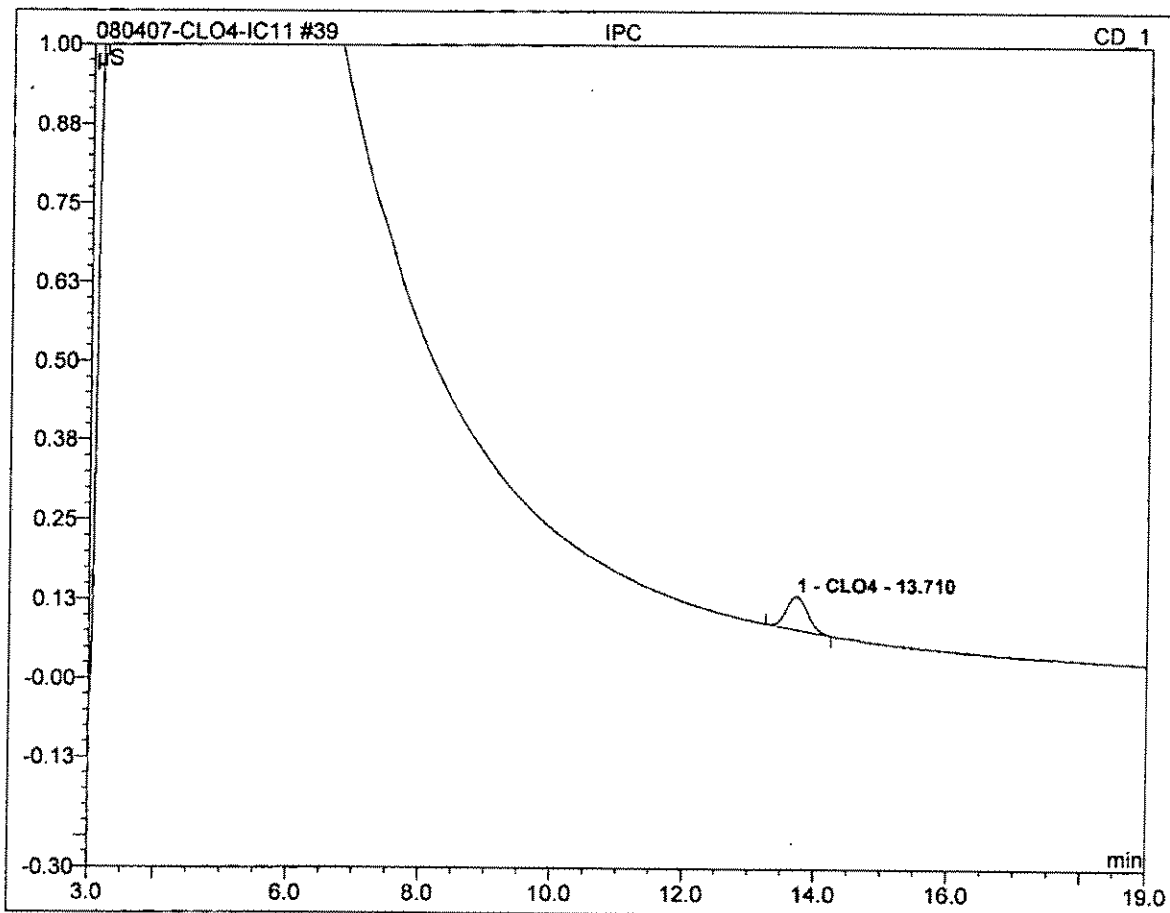
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.113	0.043	100.00	488982.662	BMB
Total:			0.113	0.043	100.00	488982.662	

38 HCV			
100			
Sample Name:	HCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 22:40	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.243	0.092	100.00	103.604	BMB
Total:			0.243	0.092	100.00	103.604	

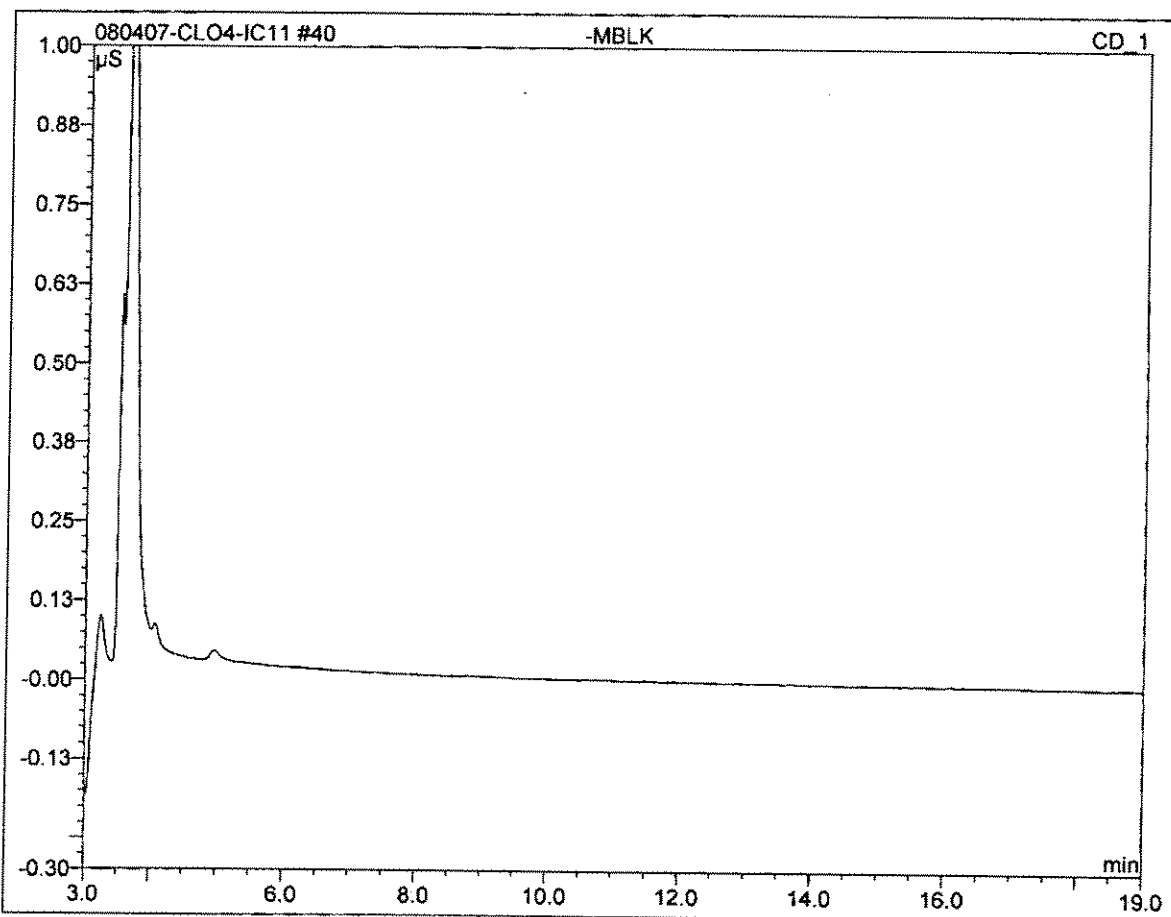
39 IPC			
25			
Sample Name:	IPC	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 23:03	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.71	CLO4	0.052	0.020	100.00	22.594	BMB
Total:			0.052	0.020	100.00	22.594	

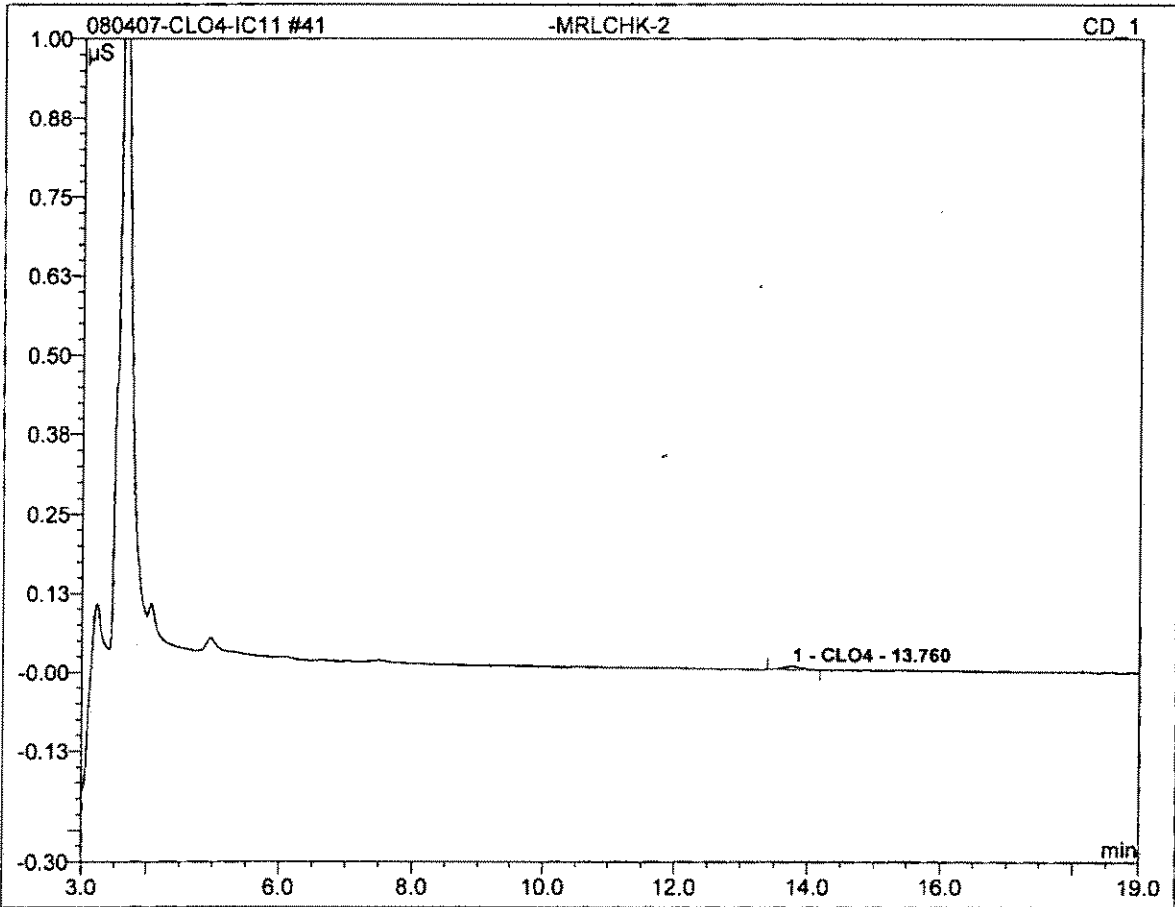
40 -MBLK

Sample Name:	-MBLK	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 23:25	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



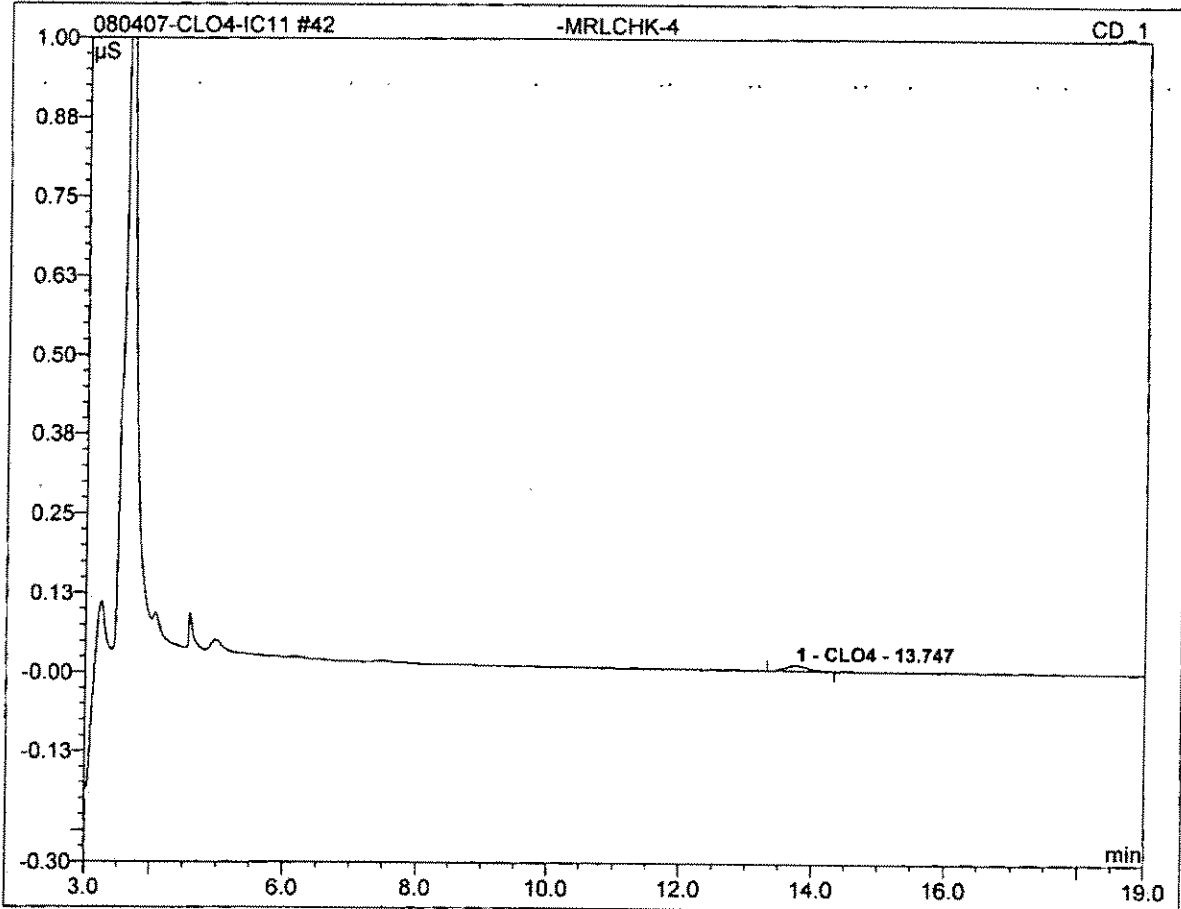
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

41 -MRLCHK-2			
2			
Sample Name:	-MRLCHK-2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/04/2007 23:48	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



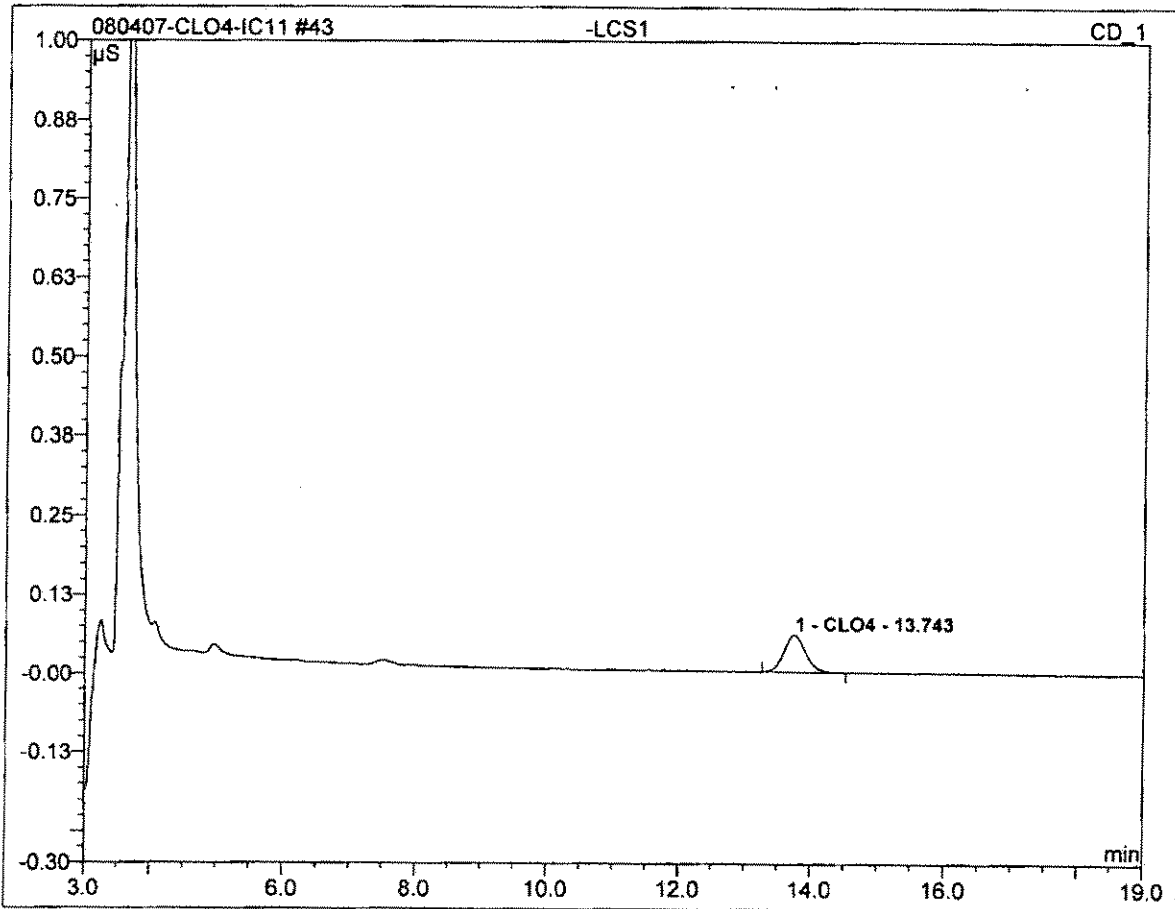
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.76	CLO4	0.005	0.002	100.00	2.454	BMB
Total:			0.005	0.002	100.00	2.454	

42 -MRLCHK-4			
4			
Sample Name:	-MRLCHK-4	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 00:10	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



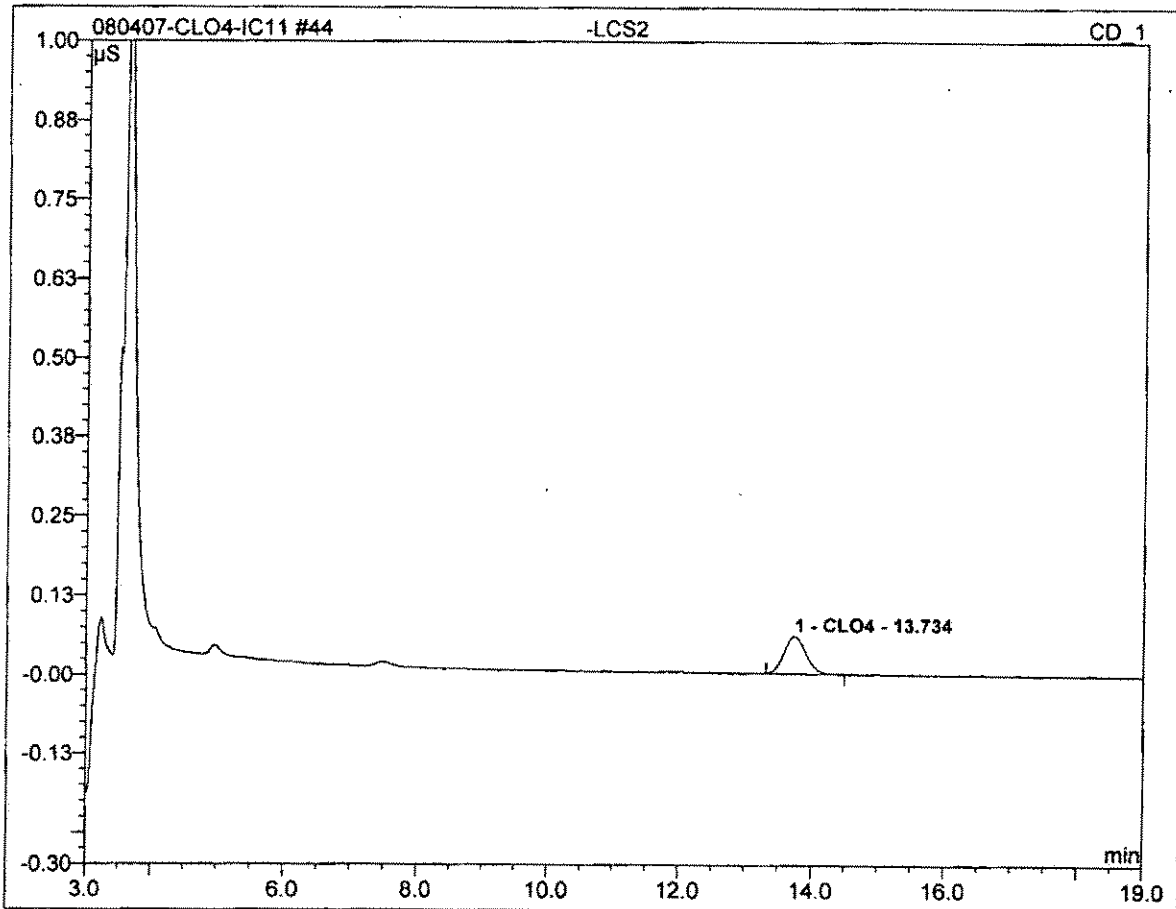
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.75	CLO4	0.009	0.003	100.00	4.308	BMB
Total:			0.009	0.003	100.00	4.308	

43 -LCS1			
25			
Sample Name:	-LCS1	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 00:32	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



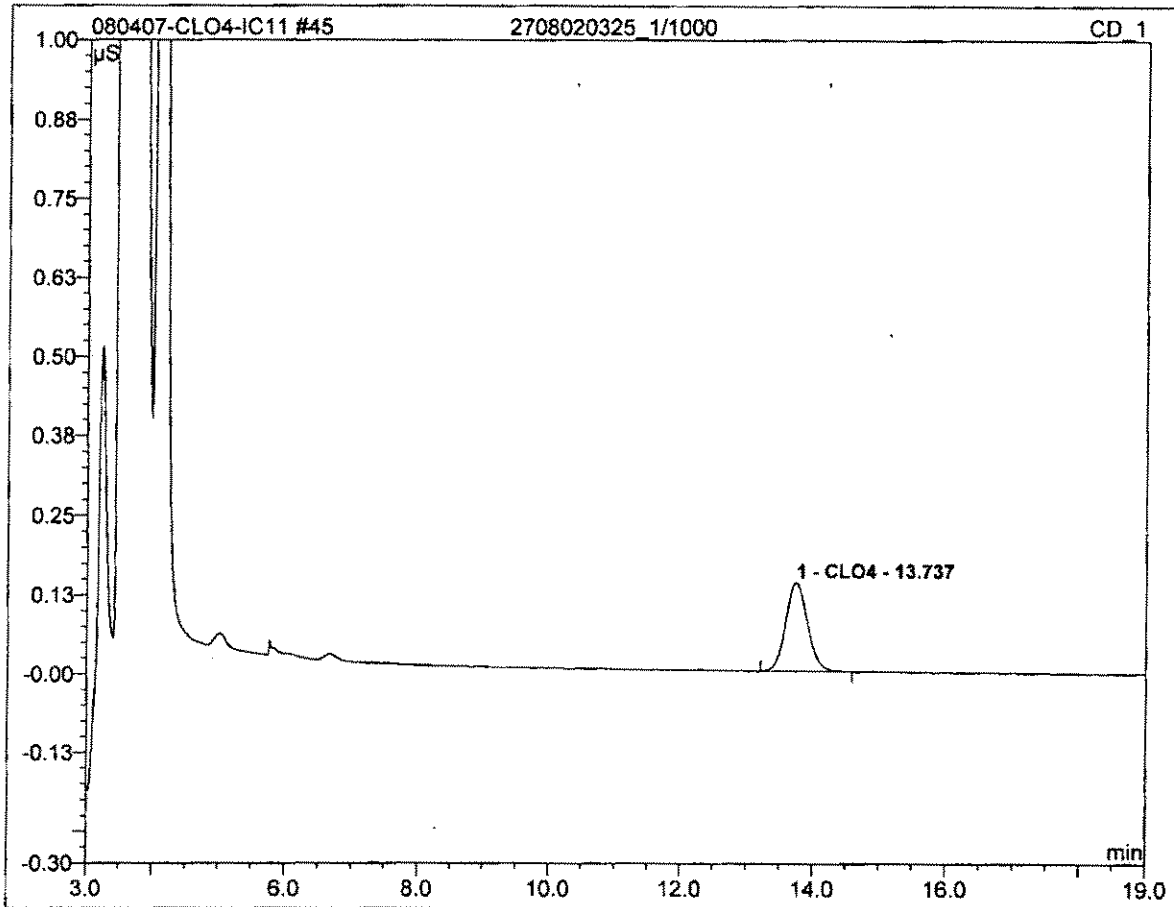
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.058	0.022	100.00	25.467	BMB
Total:			0.058	0.022	100.00	25.467	

44 -LCS2			
25			
Sample Name:	-LCS2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 00:55	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



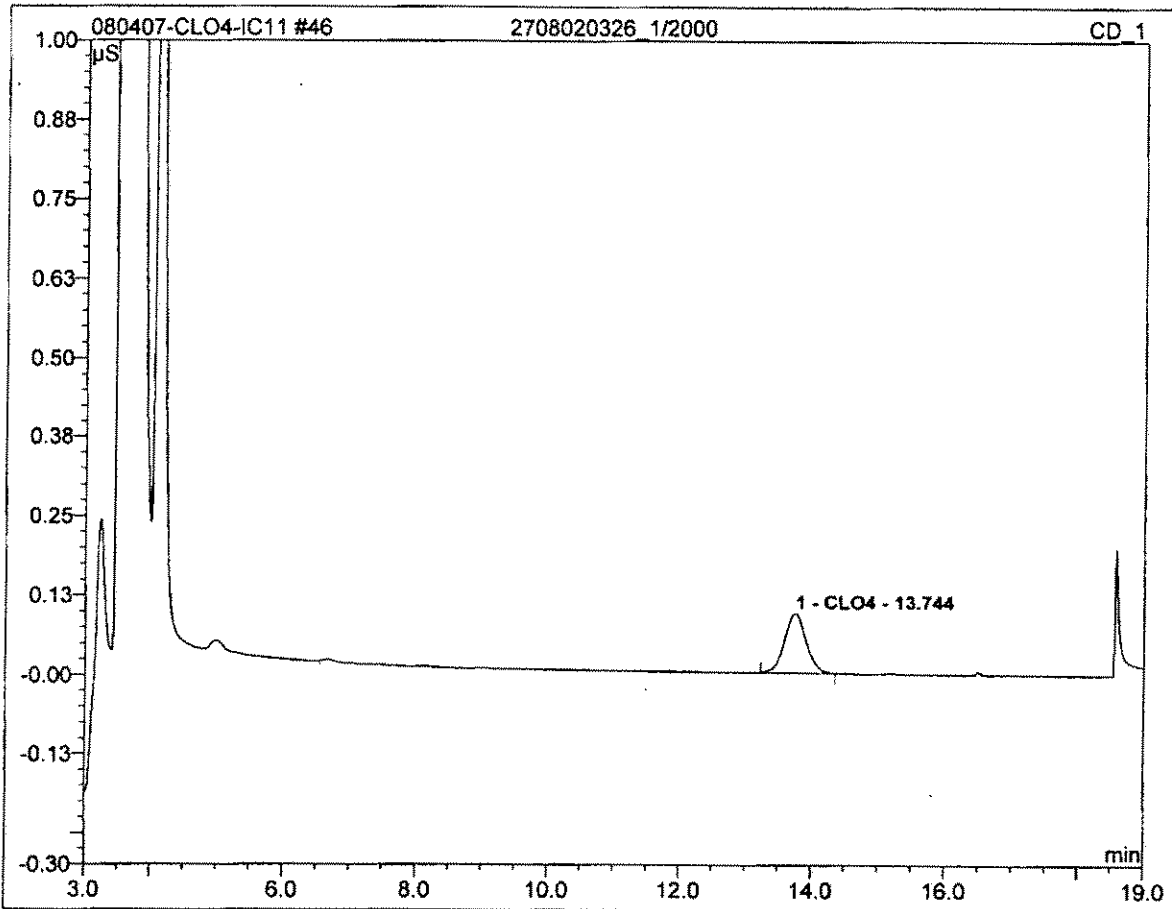
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.058	0.022	100.00	25.761	BMB
Total:			0.058	0.022	100.00	25.761	

45 2708020325_1/1000			
Sample Name:	2708020325_1/1000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 01:17	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1000.0000



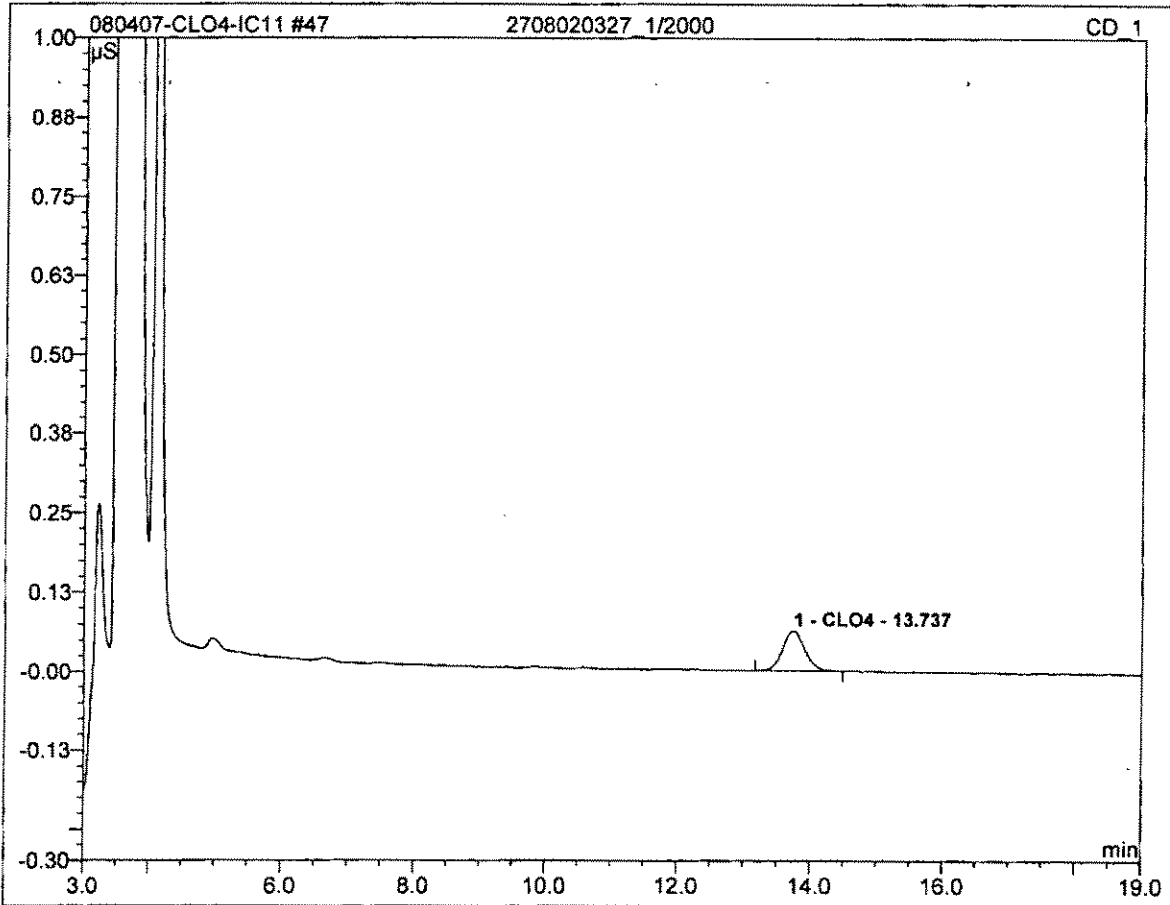
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.140	0.054	100.00	60949.184	BMB
Total:			0.140	0.054	100.00	60949.184	

46 2708020326_1/2000			
Sample Name:	2708020326_1/2000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 01:40	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	2000.0000



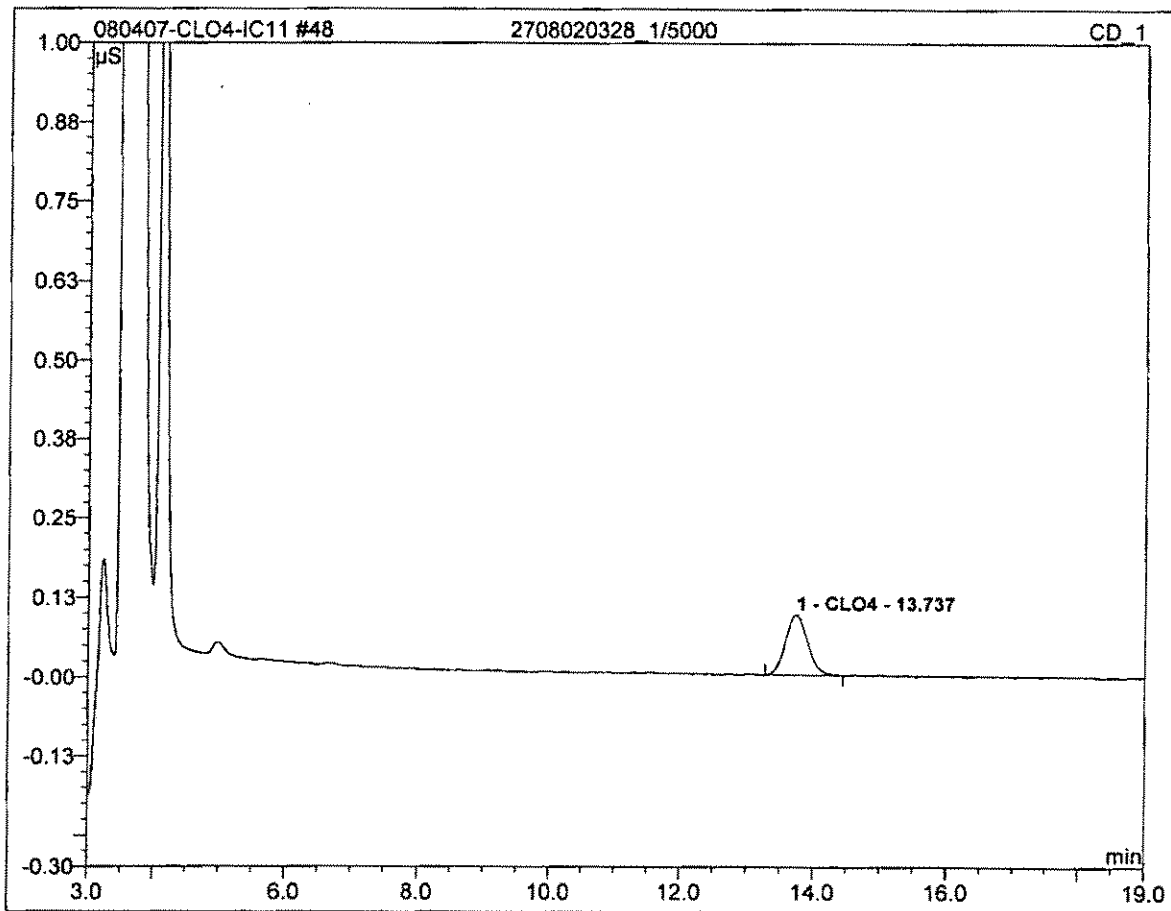
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.093	0.036	100.00	81015.952	BMB
Total:			0.093	0.036	100.00	81015.952	

47 2708020327_1/2000			
Sample Name:	2708020327_1/2000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 02:02	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	2000.0000



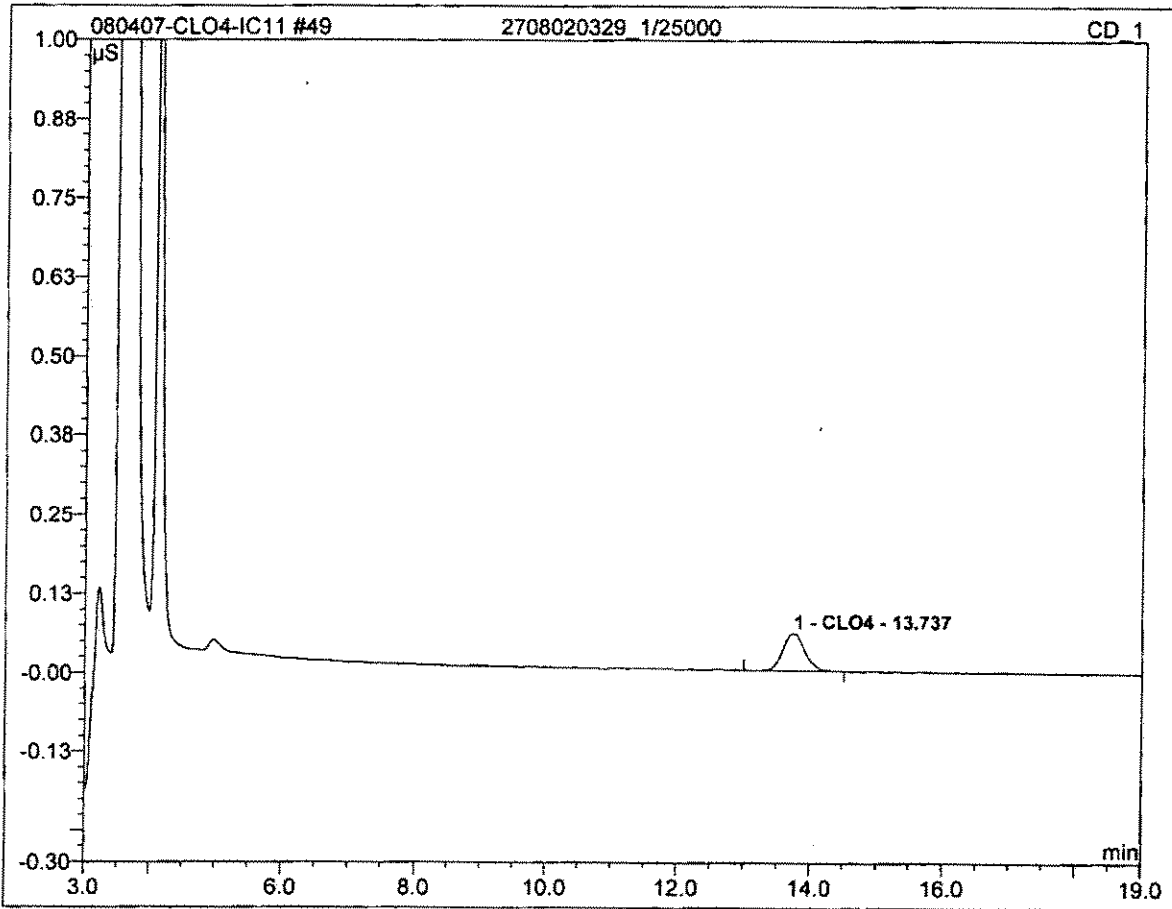
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.063	0.024	100.00	55810.247	BMB
Total:			0.063	0.024	100.00	55810.247	

48 2708020328_1/5000			
Sample Name:	2708020328_1/5000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 02:24	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	5000.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.094	0.036	100.00	204144.539	BMB
Total:			0.094	0.036	100.00	204144.539	

49 2708020329_1/25000			
Sample Name:	2708020329_1/25000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 02:47	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	25000.0000

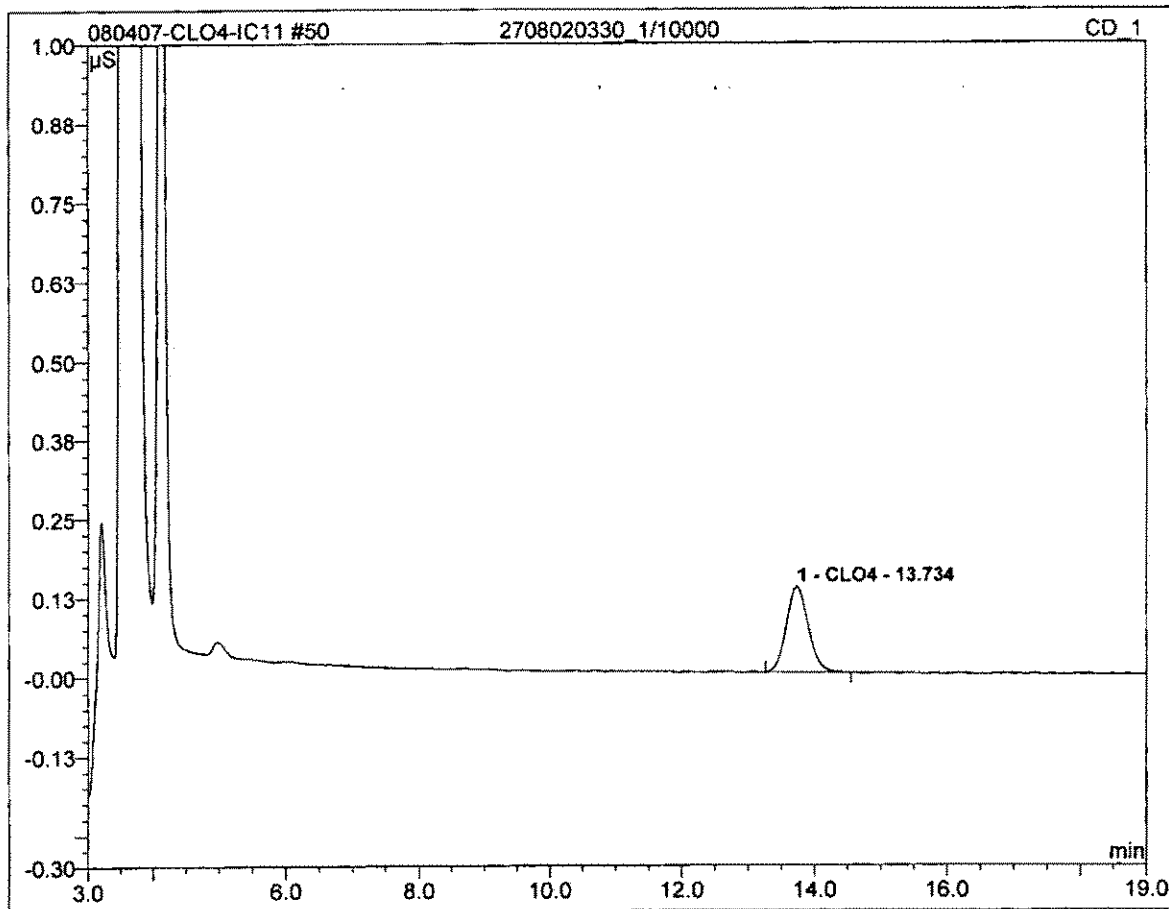


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.059	0.023	100.00	653966.005	BMB
Total:			0.059	0.023	100.00	653966.005	

50 2708020330_1/10000

Sample Name: 2708020330_1/10000
 Sample Type: unknown
 Recording Time: 08/05/2007 03:09
 Analyst: clv

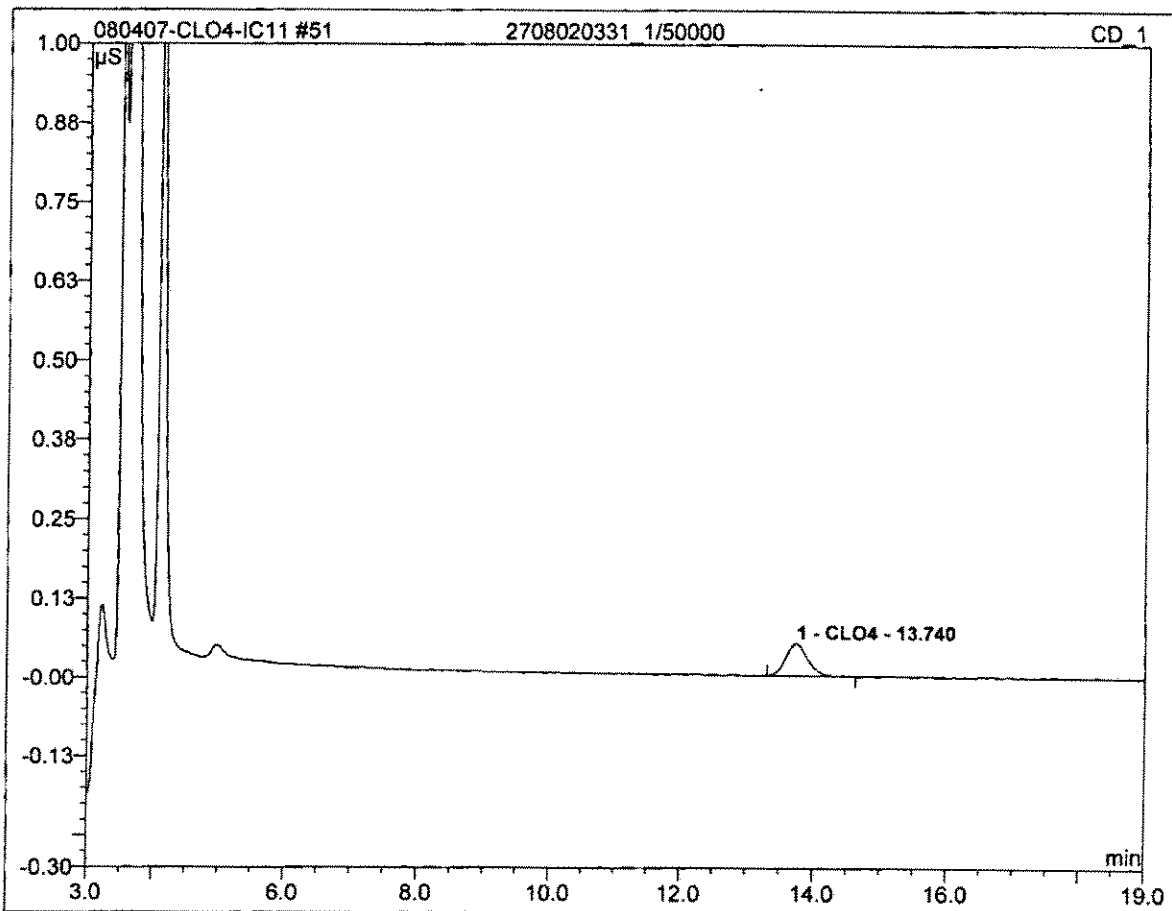
Channel: CD_1
 Control Program: Perchlorate-IC11
 Quantif. Method: IC#4-CLO4-LOW
 Dilution Factor: 10000.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.135	0.051	100.00	581536.748	BMB
Total:			0.135	0.051	100.00	581536.748	

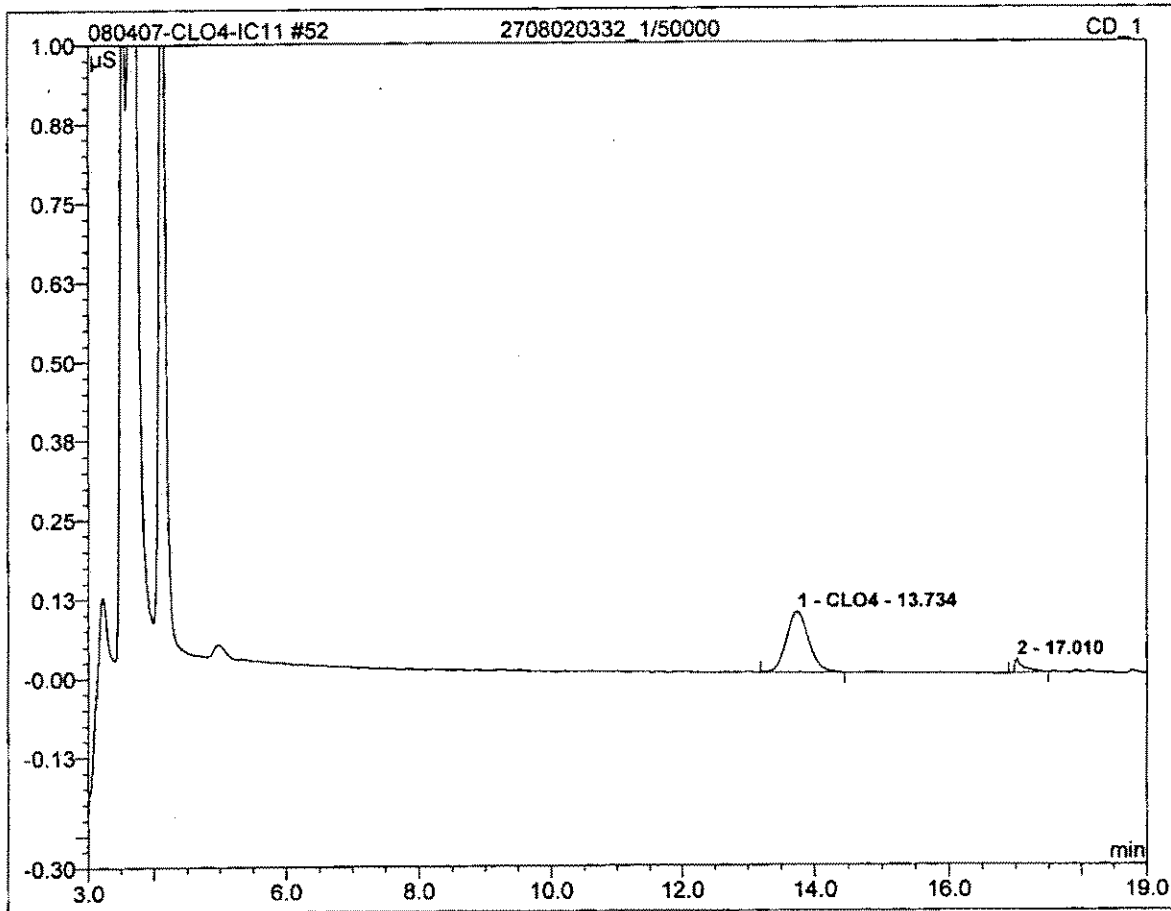
51 2708020331_1/50000

Sample Name:	2708020331_1/50000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 03:32	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000



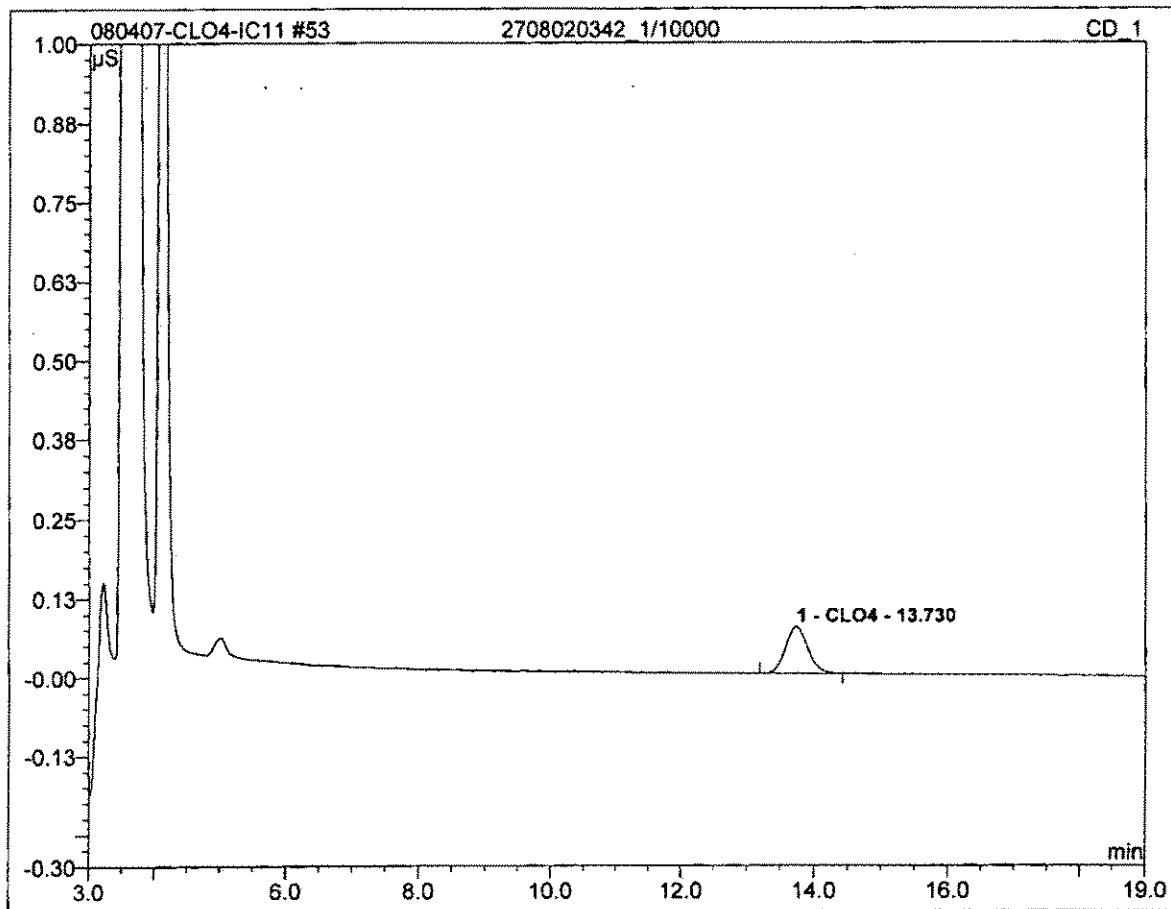
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.051	0.020	100.00	1134858.707	BMB
Total:			0.051	0.020	100.00	1134858.707	

52 2708020332_1/50000			
Sample Name:	2708020332_1/50000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 03:54	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	50000.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.095	0.036	91.88	2074802.298	BMB
Total:			0.095	0.036	91.88	2074802.298	

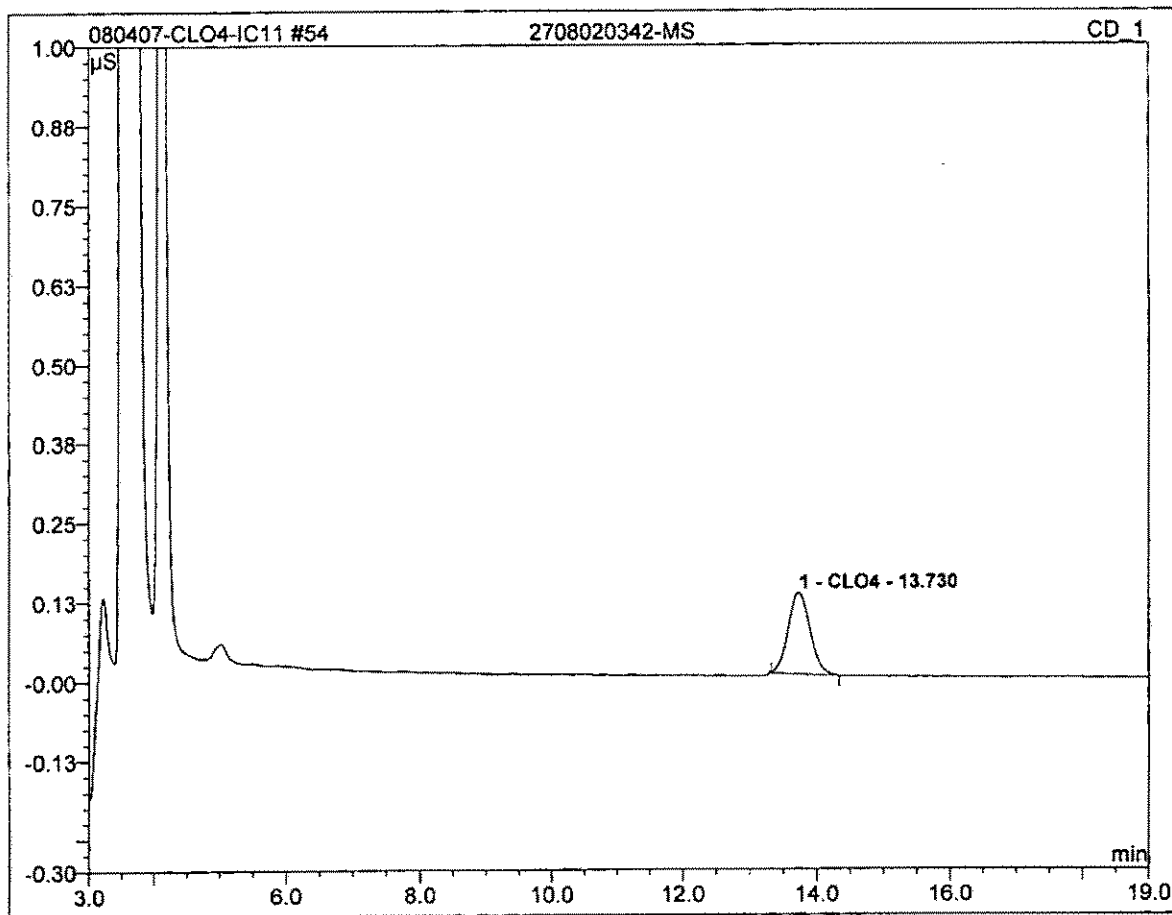
53 2708020342_1/10000			
Sample Name:	2708020342_1/10000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 04:16	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	10000.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.074	0.028	100.00	320488.129	BMB
Total:			0.074	0.028	100.00	320488.129	

54 2708020342-MS**25**

Sample Name:	2708020342-MS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 04:39	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	10000.0000

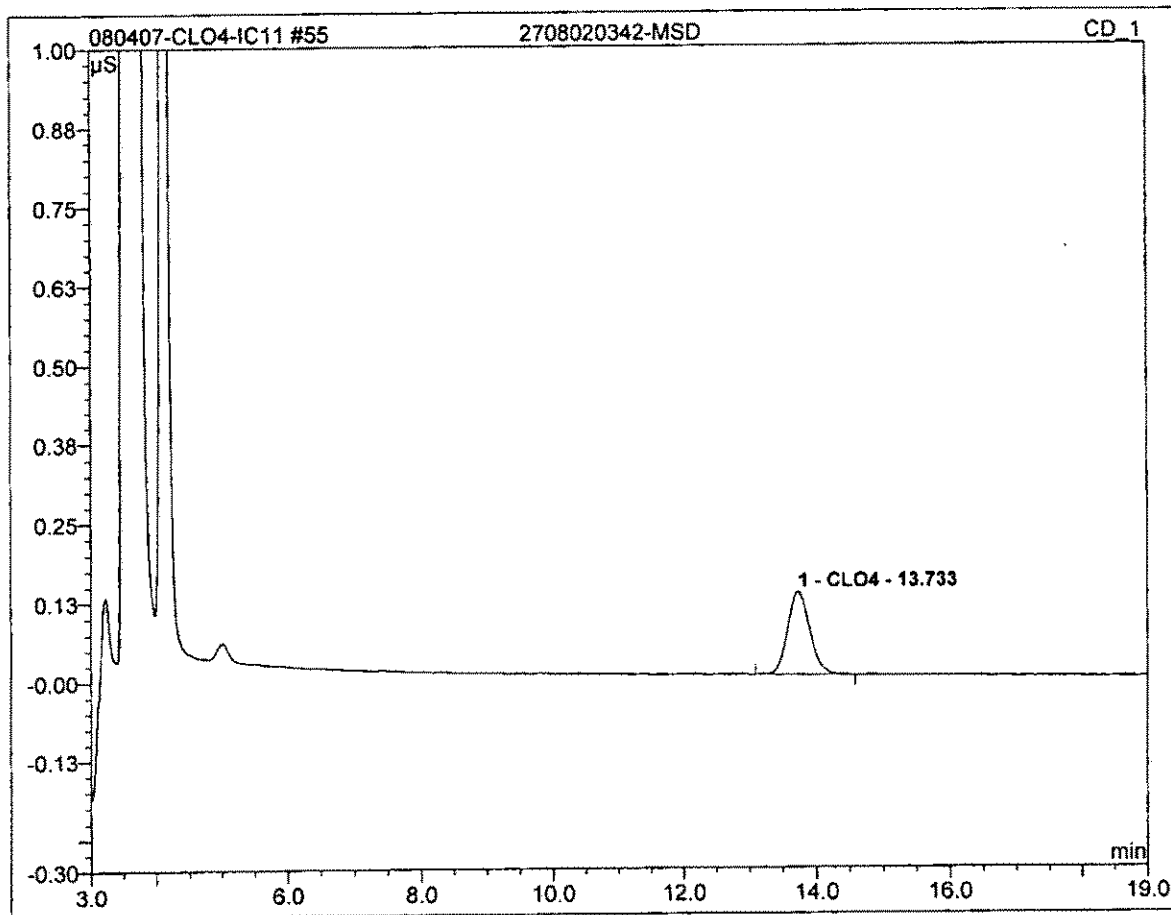


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	13.73	CLO4	0.127	0.048	100.00	539543.898	BMB
Total:			0.127	0.048	100.00	539543.898	

55 2708020342-MSD**25**

Sample Name: 2708020342-MSD
 Sample Type: unknown
 Recording Time: 08/05/2007 05:01
 Analyst: clv

Channel: CD_1
 Control Program: Perchlorate-IC11
 Quantif. Method: IC#4-CLO4-LOW
 Dilution Factor: 10000.0000

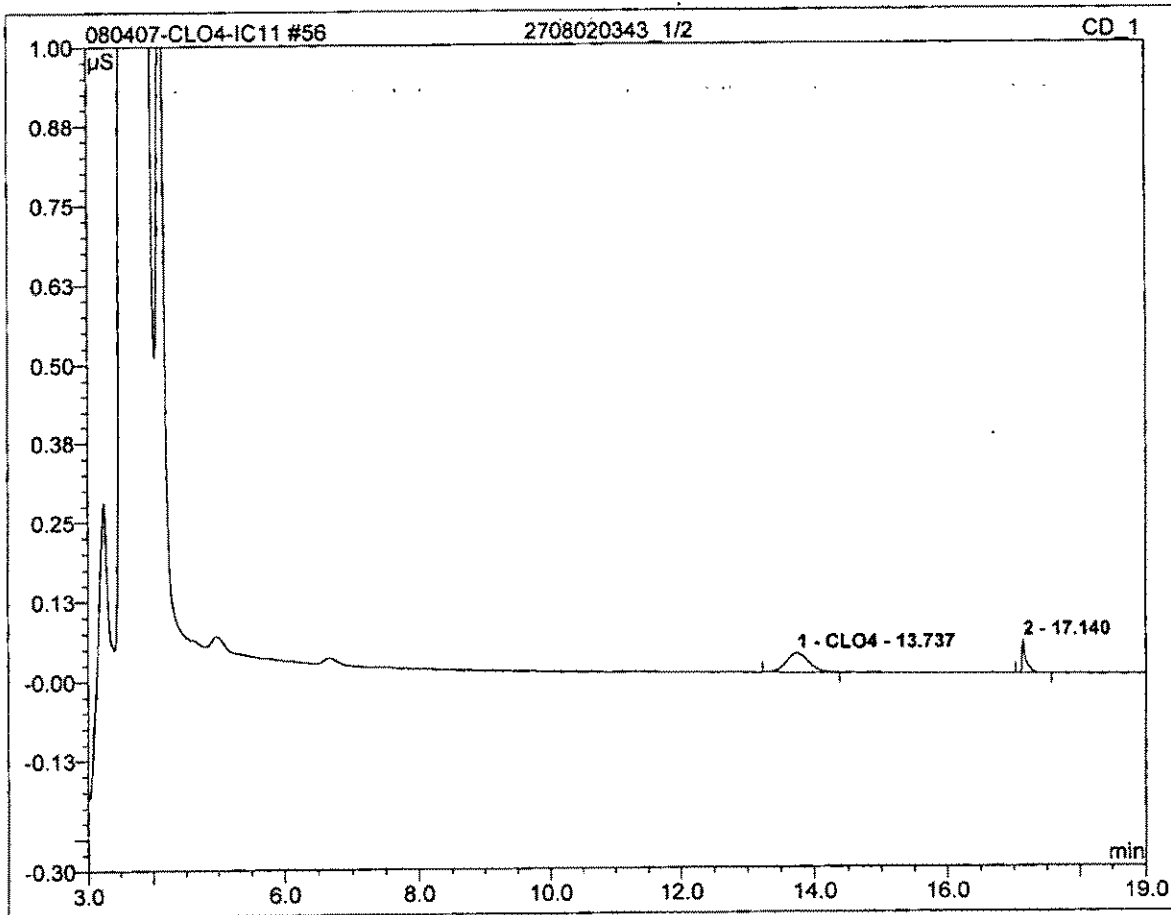


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.131	0.050	100.00	568181.854	BMB
Total:			0.131	0.050	100.00	568181.854	

56 2708020343_1/2

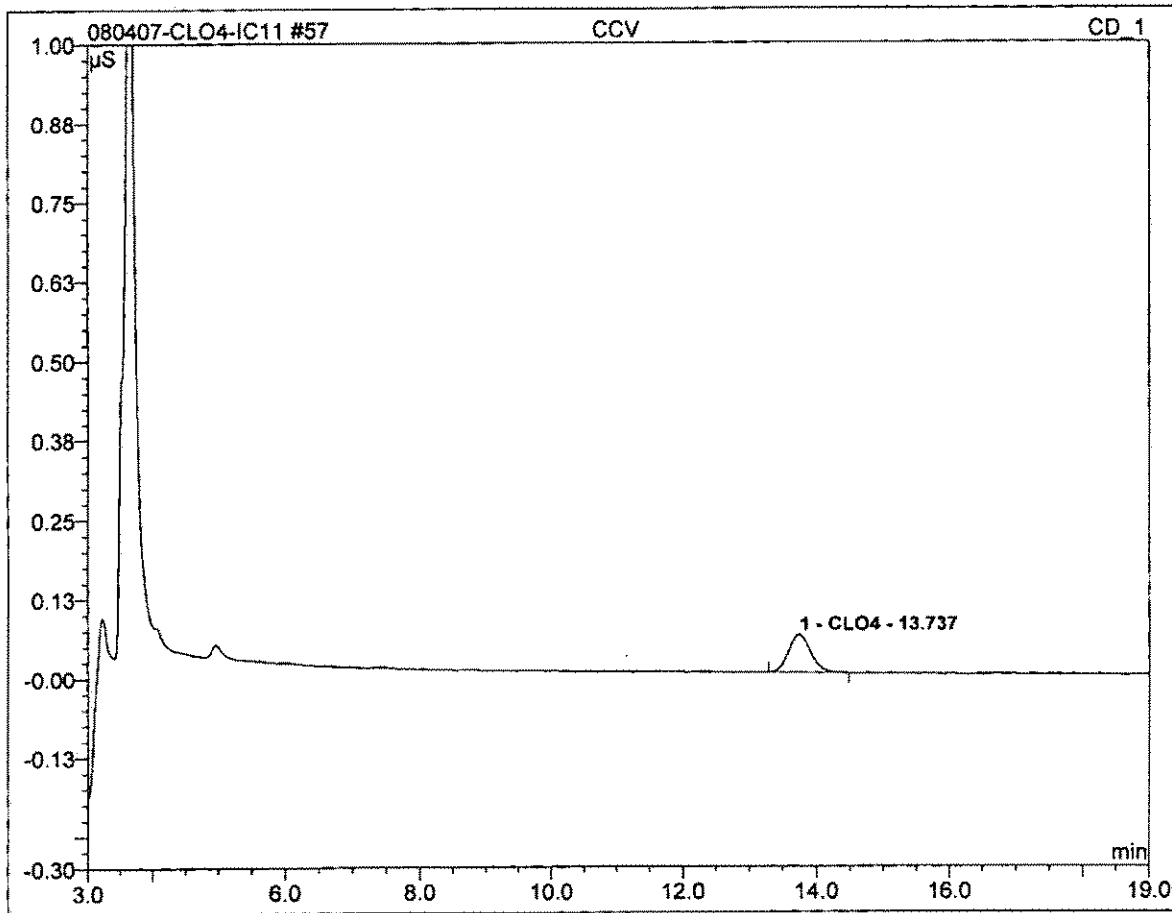
Sample Name: 2708020343_1/2
 Sample Type: unknown
 Recording Time: 08/05/2007 05:24
 Analyst: clv

Channel: CD_1
 Control Program: Perchlorate-IC11
 Quantif. Method: IC#4-CLO4-LOW
 Dilution Factor: 2.0000



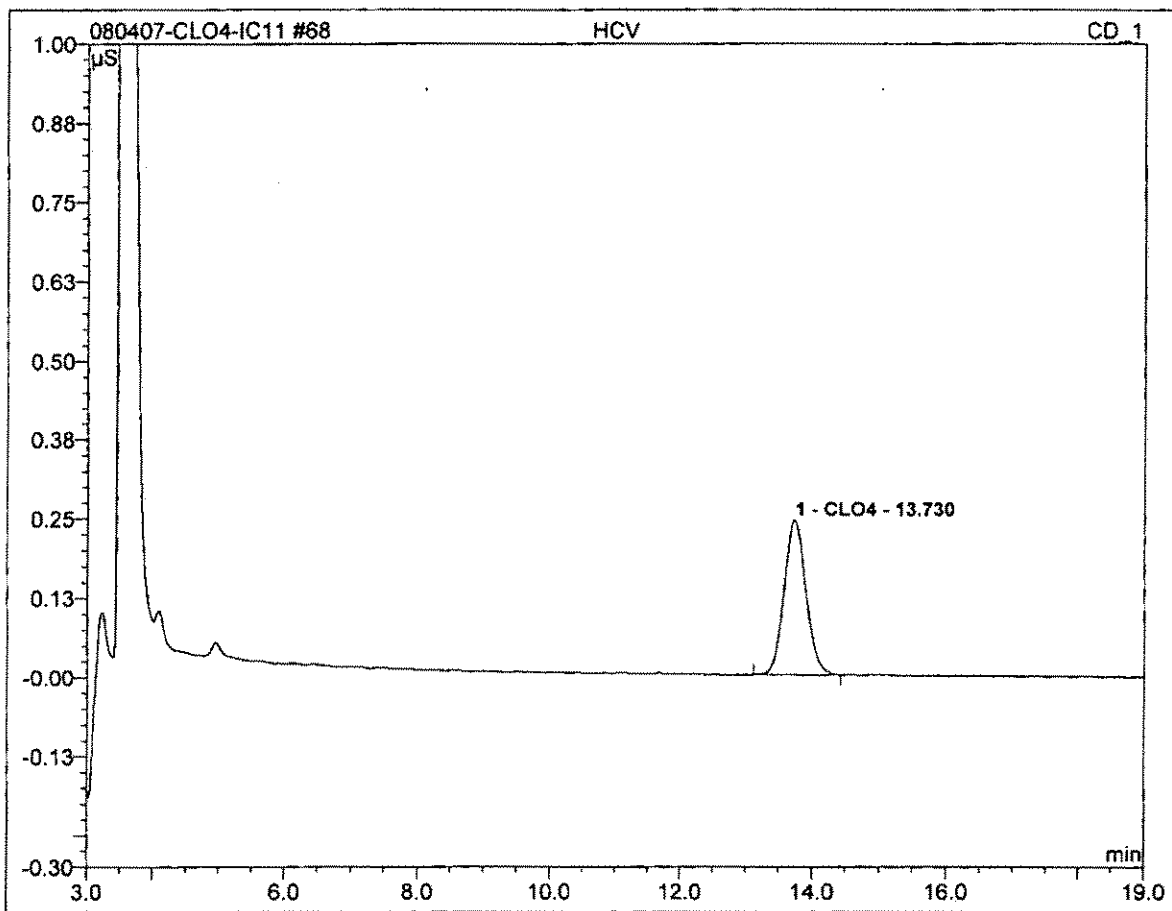
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.030	0.012	76.75	27.663	BMB
Total:			0.030	0.012	76.75	27.663	

57 CCV			
25			
Sample Name:	CCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 05:46	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



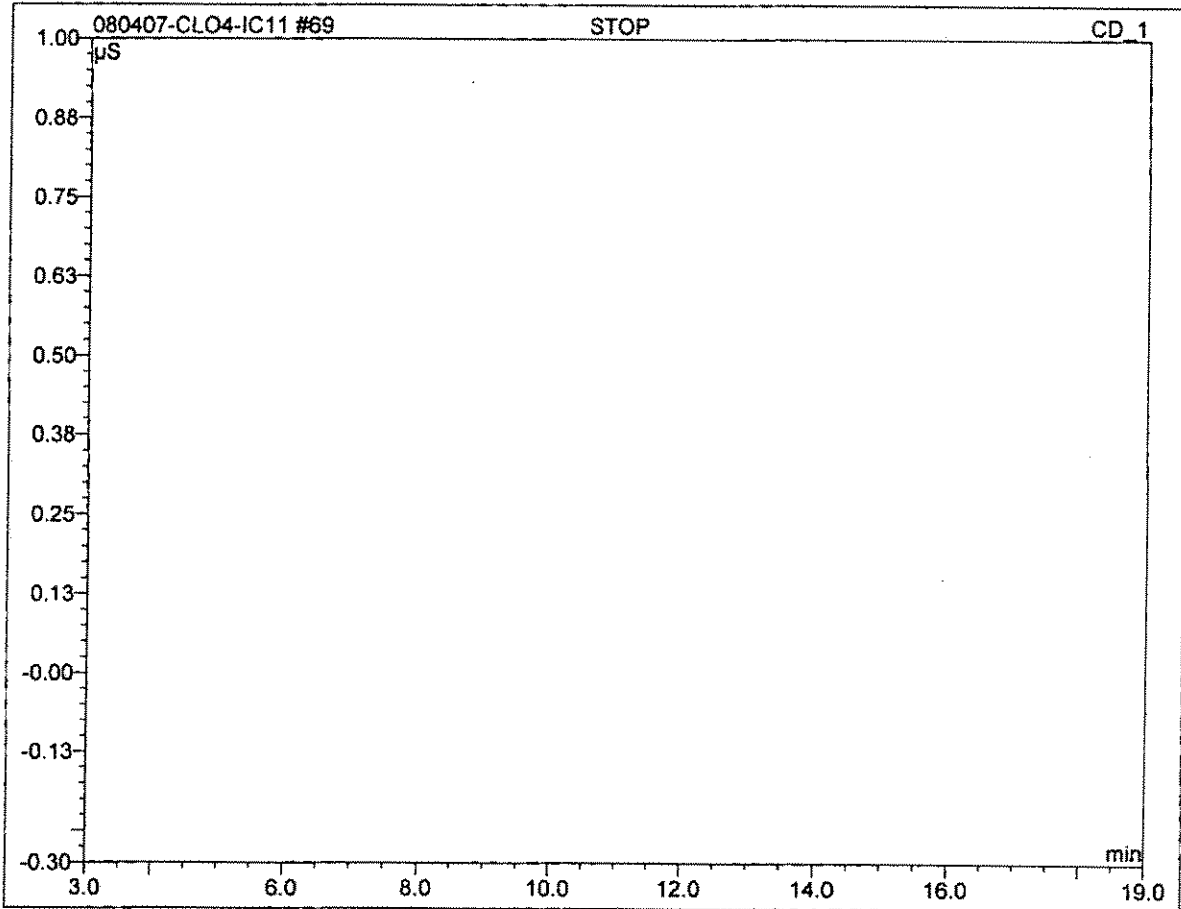
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.059	0.023	100.00	25.900	BMB
Total:			0.059	0.023	100.00	25.900	

68 HCV			
100			
Sample Name:	HCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/05/2007 09:53	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.243	0.092	100.00	103.709	BMB
Total:			0.243	0.092	100.00	103.709	

69 STOP			
Sample Name:	STOP	Channel:	CD_1
Sample Type:	unknown	Control Program:	IC11 Stop
Recording Time:	08/05/2007 10:15	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	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	

Perchlorate QC Checklist

rev: 27 Mar 03

Analysis Date: 08/16/09 Analyst: cb

QC'd by MWF Date 8-14-09

Instrument: IC11 Calculated MCT Level: 3155 umhos/cm

Original IPC conductance: 310 umhos/cm Daily IPC conductance: 3100 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 $<$ or $=$ half of the MRL.
- L-ClO4 only: ICCSCV at 2ppb is within 50%-150% (1-3ppb)
- ClO4 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

$$PDA/H = 0.4\%$$

$$PDA = 3.6\%$$

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

- One Laboratory Reagent Blank (LRB). Perchlorate is $<$ or $=$ half of MRL.
- One pair of Laboratory Control Samples (LCS/LCSD). Recovery of perchlorate is between 85%-115%.
- 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

- QIR needed for failed QC
- QIR needed for samples analyzed outside of hold time

Sample No.	Sample Name	Dil.Fac.	Comment	Time	Amount	CLO4 CD_1
1	autocal1	1.0	0	08.02.07 09:38		n.a.
2	autocal2	1.0	2	08.02.07 10:01	2.2251	
3	autocal3	1.0	4	08.02.07 10:23	3.6308	
4	autocal4	1.0	10	08.02.07 10:45	10.3344	
5	autocal5	1.0	25	08.02.07 11:08	24.6636	
6	autocal6	1.0	50	08.02.07 11:30	50.1703	
7	autocal7	1.0	100	08.02.07 11:53	99.9758	
8	QCS	1.0	20	08.06.07 10:51	18.6166	93.1%
9	IPC	1.0	25	08.06.07 11:13	23.7019	94.8%
10	-MBLK	1.0		08.06.07 11:35	n.a.	NODEX NRV
11	-MRLCHK-2	1.0	2	08.06.07 11:58	2.0960	105%
12	-MRLCHK-4	1.0	4	08.06.07 12:20	✓3.6792	92.0%
13	-LCS1	1.0	25	08.06.07 12:43	✓26.5731	106%
14	-LCS2	1.0	25	08.06.07 13:05	✓26.7081	107%
15	2708010228_1/50000	50000.0	RR/CONFIRMED	08.06.07 13:27	✓2587398.4174	
16	2708010229_1/100	100.0	RR/CONFIRMED	08.06.07 13:50	✓1715.6320	
17	2708010230_1/10000	10000.0	RR	08.06.07 14:12	✓422751.2070	
18	2708020344_1/10000 ✓	10000.0	RR/CONFIRMED	08.06.07 14:35	✓314854.5818	
19	2708020570_1/2	2.0	RR/CONFIRMED	08.06.07 14:57	✓7.1042	
20	2708020570-MS	2.0	25	08.06.07 15:19	✓55.4146	48.3/2 = 24.2/66.5
21	2708020570-MSD	2.0	25	08.06.07 15:42	✓56.8826	24.9/99.6%
22	2708010300_1/500DNR	500.0	RR	08.06.07 16:04	—8975.1533	DNR
23	2708010300-MS	1.0	CONFIRMATION	08.06.07 16:27	—26.3618	DNR
24	2708030110 DNR	1.0		08.06.07 16:49	—n.a.	DNR
25	2708030224_1/10000	10000.0		08.06.07 17:11	✓196488.3152	
26	2708030225_1/1000	1000.0		08.06.07 17:34	✓42768.0756	
27	2708030226_1/10000	10000.0		08.06.07 17:56	✓226791.1607	
28	CCV	1.0	25	08.06.07 18:19	25.3633	101%
29	2708030227_1/1000	1000.0		08.06.07 18:41	✓55319.2904	
30	2708030228_1/2500	2500.0		08.06.07 19:03	✓146936.5612	
31	2708030229_1/2500	2500.0		08.06.07 19:26	✓102866.6617	
32	2708030230_1/10000	10000.0		08.06.07 19:48	✓497078.6045	
33	2708030231_1/100DNR	100.0		08.06.07 20:11	—11184.9429	DNR
34	2708030232_1/1000	1000.0		08.06.07 20:33	✓37536.6591	
35	2708030233_1/50000	50000.0		08.06.07 20:55	✓1801374.0673	
36	2708030234_1/1000	1000.0		08.06.07 21:18	✓33879.1500	
37	2708030235_1/1000	1000.0		08.06.07 21:40	✓30092.1268	
38	2708030239_1/50000	50000.0		08.06.07 22:03	✓4559275.5659	
39	HCV	1.0	100	08.06.07 22:25	106.6846	107%
40	IPC	1.0	25	08.06.07 22:47	23.5938	944%
41	-MBLK	1.0		08.06.07 23:10	n.a.	NODEX NRV
42	-MRLCHK-2	1.0	2	08.06.07 23:32	2.4670	123%
43	-MRLCHK-4	1.0	4	08.06.07 23:55	✓4.4000	110%
44	-LCS1	1.0	25	08.07.07 00:17	✓26.3823	109%

45	-LCS2	1.0	25	08.07.07 00:39	✓26.7101	107%
46	2708030247_1/50000	50000.0		08.07.07 01:02	✓2264973.4674	
47	2708030248_1/50000	50000.0		08.07.07 01:24	✓2120775.1873	
48	2708030249_1/50000	50000.0		08.07.07 01:47	✓1091193.2255	
49	2708040012	1.0		08.07.07 02:09	✓42.6713	
50	2708040013	1.0		08.07.07 02:31	✓42.3981	
51	2708040013-MS	1.0	25	08.07.07 02:54	✓68.2756	25.9/104%
52	2708040013-MSD	1.0	25	08.07.07 03:16	✓69.5522	27.2/109%
53	2708040001_1/1000	1000.0		08.07.07 03:38	✓24709.0407	
54	2708040002_1/10000DNR	10000.0		08.07.07 04:01	-19749.2165	DNR
55	2708040003_1/50000	50000.0		08.07.07 04:23	✓994288.6681	
56	2708040004_1/50000	50000.0		08.07.07 04:46	✓64291.1512	
57	2708040005_1/50000	50000.0		08.07.07 05:08	✓1082171.7512	
58	CCV	1.0	25	08.07.07 05:30	25.8977	104%
59	2708040006_1/50000DNR	50000.0		08.07.07 05:53	1975957.0956	
60	2708040007_1/50000DNR	50000.0		08.07.07 06:15	991100.3858	
61	2708040008_1/50000DNR	50000.0		08.07.07 06:38	853339.3541	
62	2708040009_1/50000DNR	50000.0		08.07.07 07:00	870704.4886	
63	2708040010_1/1000DNR	1000.0		08.07.07 07:22	33847.9773	
64	2708040011_1/1000DNR	1000.0		08.07.07 07:45	35339.0292	
65	2707310412_1/50000DNR	50000.0	RR	08.07.07 08:07	725130.6897	
66	2708010223_1/5000DNR	5000.0	RR	08.07.07 08:30	141966.6557	
67	2708010297_1/6DNR	6.0	RR/EC=16900	08.07.07 08:52	24010.0811	
68	2708010300_1/4DNR	4.0	RR/EC=11500	08.07.07 09:14	8198.9304	
69	HCV	1.0	POWER OUTAGE	08.07.07 09:37		n.a.
70	WASH	1.0		08.07.07 13:07		n.a.
71	HCV	1.0	100	08.07.07 13:30	65.3823	
72	HCV	1.0	100	08.07.07 13:52	74.5598	
73	STOP	1.0		08.07.07 14:14		n.a.

VB: Mmed/14/07

CONDUCTIVITY MW SOP REVISION 5
SM2510B

Analysis Date: 08/09/07
Analyst: DL
Reviewed By: _____
LIMS Check By: _____

Time of Analysis Start: 1040 End: _____

MRL 2µmhos/cm: R# _____ exp of solution: _____
KCl Std 1412 R# 201668 exp of solution 12/07
TV = 1412 µmhos/cm @ 25°C for 0.0100M
Reading: 1400
Instrument: YSI Model 3200 SN:01A0504, Year Acquired 2001 New

Was QC Criteria Met: Y N WBL 8/9/07
Was QIR Needed: Y N

Run #	Sample Number	Sample ID	Client	Date Collected	Temp °C	pH	Scale (µmho/mmho)	Result		Comments
								Instrument	Reported (µmho/cm)	
	Blank				21	7	W		0.5600	
	STD MRL 2µmhos/cm								—	1-3—±50% of TV
	STD KCl - 1000 mhos/cm								—	950-1050—±5% of TV
1	2708010228	M37	KM	07/31/07				8800		
2	0229	EB1	↓	↓				71		
3	0230	MDX	↓	↓				5700		
4	2708020344	MDZ	↓	08/01/07				9200		
5	0570	HOLE LAKE	LEWA	07/25/07				1500		
8	2708030224	M87	KM	08/02/07				3100		
7	0225	M74						7800		
8	0226	M73						4500		
9	0227	M88						8500		
10	0228	M102						2900		
	DUP	↓						5900		
11	0229	M101						4000		RPD < 5%
12	0230	M86						4700		
13	0232	M100						2100		
14	0233	M36						16900		
15	0234	M11						4500		
16	0235	M10						4000		
17	0239	GW11	↓					39000		
18	0247	GWTP DISCU	KM					21000		
19	0248	↓ WEST	↓					8600		
20	0249	↓ EAST	↓					11600		
	DUP	↓ ↓	↓ ↓	↓ ↓				11600		
	STD KCl - 10 mhos/cm								—	8-12—RPD < 20% of TV

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

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

Sequence: 080807-CLO4-IC11
Operator: clv

Page 1 of 4
Printed: 8/9/2007 11:02:58 AM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC11_CLO412007AUG
Timebase: IC11
#Samples: 73

Created: 8/4/2007 9:38:17 AM by clv
Last Update: 8/8/2007 5:04:53 PM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
1	autocal1		1.0000	Standard	0	Finished
2	autocal2	R201449 EXP 07/28/09	1.0000	Standard	2	Finished
3	autocal3		1.0000	Standard	4	Finished
4	autocal4		1.0000	Standard	10	Finished
5	autocal5		1.0000	Standard	25	Finished
6	autocal6		1.0000	Standard	50	Finished
7	autocal7		1.0000	Standard	100	Finished
8	QCS	R201449 EXP 07/28/09	1.0000	Unknown	20	Finished
9	IPC	EC=3155	1.0000	Unknown	25	Finished
10	-MBLK		1.0000	Unknown		Finished
11	-MRLCHK-2	2	1.0000	Unknown	2	Finished
12	-MRLCHK-4	4	1.0000	Unknown	4	Finished
13	-LCS1	25	1.0000	Unknown	25	Finished
14	-LCS2	25	1.0000	Unknown	25	Finished
15	2708010228_1/50000	KM M-37	50000.0000	Unknown	RR/CONFIRMED	Finished
16	2708010229_1/100	KM EB-1	100.0000	Unknown	RR/CONFIRMED	Finished
17	2708010230_1/10000	KM MD-4	10000.0000	Unknown	RR	Finished
18	2708020344_1/10000	KM MD-2	10000.0000	Unknown	RR/CONFIRMED	Finished
19	2708020570_1/2	IEUA HOLE LAKE OUT	2.0000	Unknown	RR/CONFIRMED	Finished
20	2708020570-MS	25	2.0000	Unknown	25	Finished
21	2708020570-MSD	25	2.0000	Unknown	25	Finished
22	2708010300_1/500DNR	KM H-28A	500.0000	Unknown	RR	Finished
23	2708010300-MS	25	1.0000	Unknown	CONFIRMATION	Finished
24	2708030110 DNR	TUCSON 112	1.0000	Unknown		Finished
25	2708030224_1/10000	KM M-87	10000.0000	Unknown		Finished
26	2708030225_1/1000	KM M-74	1000.0000	Unknown		Finished
27	2708030226_1/10000	KM M-73	10000.0000	Unknown		Finished
28	CCV	25	1.0000	Unknown	25	Finished
29	2708030227_1/1000	KM M-88	1000.0000	Unknown		Finished
30	2708030228_1/2500	KM M-102	2500.0000	Unknown		Finished
31	2708030229_1/2500	KM M-101	2500.0000	Unknown		Finished
32	2708030230_1/10000	KM M-86	10000.0000	Unknown		Finished
33	2708030231_1/100DNR	KM M-84	100.0000	Unknown		Finished
34	2708030232_1/1000	KM M-100	1000.0000	Unknown		Finished
35	2708030233_1/50000	KM M-36	50000.0000	Unknown		Finished
36	2708030234_1/1000	KM M-11	1000.0000	Unknown		Finished
37	2708030235_1/1000	KM M-10	1000.0000	Unknown		Finished
38	2708030239_1/50000	KM GW-11	50000.0000	Unknown		Finished
39	HCV	100	1.0000	Unknown	100	Finished
40	IPC	EC=3155	1.0000	Unknown	25	Finished
41	-MBLK		1.0000	Unknown		Finished
42	-MRLCHK-2	2	1.0000	Unknown	2	Finished

Sequence: 080607-CLO4-IC11
Operator: civ

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Printed: 8/9/2007 11:02:58 AM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: ICV11_CLO4\2007\AUG
Timebase: IC11
#Samples: 73

Created: 8/4/2007 9:38:17 AM by civ
Last Update: 8/8/2007 5:04:53 PM by civ

No.	Name	Program	Method	Inj. Date/Time	*Analyst
1	autocal1	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 9:38:42 AM	civ
2	autocal2	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 10:01:05 AM	civ
3	autocal3	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 10:23:29 AM	civ
4	autocal4	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 10:45:53 AM	civ
5	autocal5	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 11:08:17 AM	civ
6	autocal6	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 11:30:41 AM	civ
7	autocal7	Perchlorate-IC11	IC#4-CLO4-LOW	8/2/2007 11:53:05 AM	civ
8	QCS	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 10:51:07 AM	civ
9	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 11:13:31 AM	civ
10	-MBLK	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 11:35:54 AM	civ
11	-MRLCHK-2	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 11:58:18 AM	civ
12	-MRLCHK-4	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 12:20:42 PM	civ
13	-LCS1	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 12:43:06 PM	civ
14	-LCS2	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 1:05:30 PM	civ
15	2708010228_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 1:27:53 PM	civ
16	2708010229_1/100	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 1:50:17 PM	civ
17	2708010230_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 2:12:41 PM	civ
18	2708020344_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 2:35:05 PM	civ
19	2708020570_1/2	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 2:57:29 PM	civ
20	2708020570-MS	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 3:19:52 PM	civ
21	2708020570-MSD	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 3:42:16 PM	civ
22	2708010300_1/500DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 4:04:40 PM	civ
23	2708010300-MS	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 4:27:04 PM	civ
24	2708030110 DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 4:49:28 PM	civ
25	2708030224_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 5:11:51 PM	civ
26	2708030225_1/1000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 5:34:15 PM	civ
27	2708030226_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 5:56:39 PM	civ
28	CCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 6:19:03 PM	civ
29	2708030227_1/1000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 6:41:27 PM	civ
30	2708030228_1/2500	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 7:03:51 PM	civ
31	2708030229_1/2500	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 7:26:15 PM	civ
32	2708030230_1/10000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 7:48:38 PM	civ
33	2708030231_1/100DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 8:11:02 PM	civ
34	2708030232_1/1000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 8:33:26 PM	civ
35	2708030233_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 8:55:50 PM	civ
36	2708030234_1/1000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 9:18:14 PM	civ
37	2708030235_1/1000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 9:40:37 PM	civ
38	2708030239_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 10:03:01 PM	civ
39	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 10:25:25 PM	civ
40	IPC	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 10:47:49 PM	civ
41	-MBLK	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 11:10:13 PM	civ
42	-MRLCHK-2	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 11:32:36 PM	civ

Sequence: 080607-CLO4-IC11
Operator: clv

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Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC111_CLO4\2007AUG
Timebase: IC11
#Samples: 73
Created: 8/4/2007 9:38:17 AM by clv
Last Update: 8/8/2007 5:04:53 PM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Status
43	-MRLCHK-4	4	1.0000	Unknown	4	Finished
44	-LCS1	25	1.0000	Unknown	25	Finished
45	-LCS2	25	1.0000	Unknown	25	Finished
46	2708030247_1/50000	GWTP DISCHARGE	50000.0000	Unknown		Finished
47	2708030248_1/50000	GWTP WEST	50000.0000	Unknown		Finished
48	2708030249_1/50000	GWTP EAST	50000.0000	Unknown		Finished
49	2708040012	KM OUTFALL 1	1.0000	Unknown		Finished
50	2708040013	KM OUTFALL 2	1.0000	Unknown		Finished
51	2708040013-MS	25	1.0000	Unknown	25	Finished
52	2708040013-MSD	25	1.0000	Unknown	25	Finished
53	2708040001_1/1000	KM M-85	1000.0000	Unknown		Finished
54	2708040002_1/10000DNR	KM M-83	10000.0000	Unknown		Finished
55	2708040003_1/50000	KM M-70	50000.0000	Unknown		Finished
56	2708040004_1/50000	KM M-71	50000.0000	Unknown		Finished
57	2708040005_1/50000	KM M-72	50000.0000	Unknown		Finished
58	CCV	25	1.0000	Unknown	25	Finished
59	2708040006_1/50000DNR	KM M-22A	50000.0000	Unknown		Finished
60	2708040007_1/50000DNR	KM M-38	50000.0000	Unknown		Finished
61	2708040008_1/50000DNR	KM M-89	50000.0000	Unknown		Finished
62	2708040009_1/50000DNR	KM M-17A	50000.0000	Unknown		Finished
63	2708040010_1/1000DNR	KM M-115	1000.0000	Unknown		Finished
64	2708040011_1/1000DNR	KM M-14A	1000.0000	Unknown		Finished
65	2707310412_1/50000DNR	KM MD-1	50000.0000	Unknown	RR	Finished
66	2708010223_1/50000DNR	KM M-79	5000.0000	Unknown	RR	Finished
67	2708010297_1/6DNR	KM M-5A	6.0000	Unknown	RR/EC=16900	Finished
68	2708010300_1/4DNR	KM H-28A	4.0000	Unknown	RR/EC=11500	Finished
69	HCV	100	1.0000	Unknown	POWER OUTAGE	Interrupted
70	WASH		1.0000	Unknown		Finished
71	HCV	100	1.0000	Unknown	100	Finished
72	HCV	100	1.0000	Unknown	100	Finished
73	STOP		1.0000	Unknown		Interrupted

Sequence: 080607-CLO4-IC11
Operator: clv

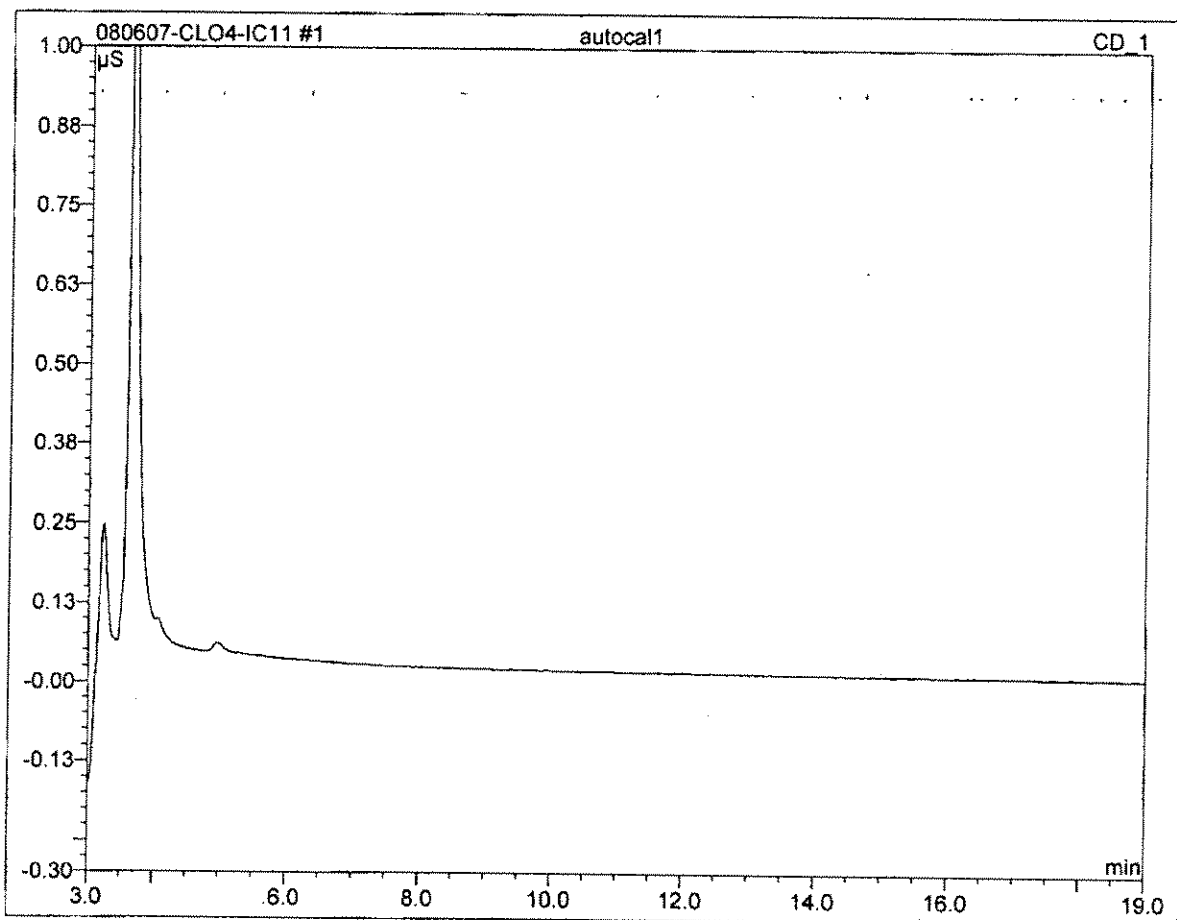
Page 4 of 4
Printed: 8/9/2007 11:02:58 AM

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC11_CLO4\2007\AUG
Timebase: IC11
#Samples: 73

Created: 8/4/2007 9:38:17 AM by clv
Last Update: 8/8/2007 5:04:53 PM by clv

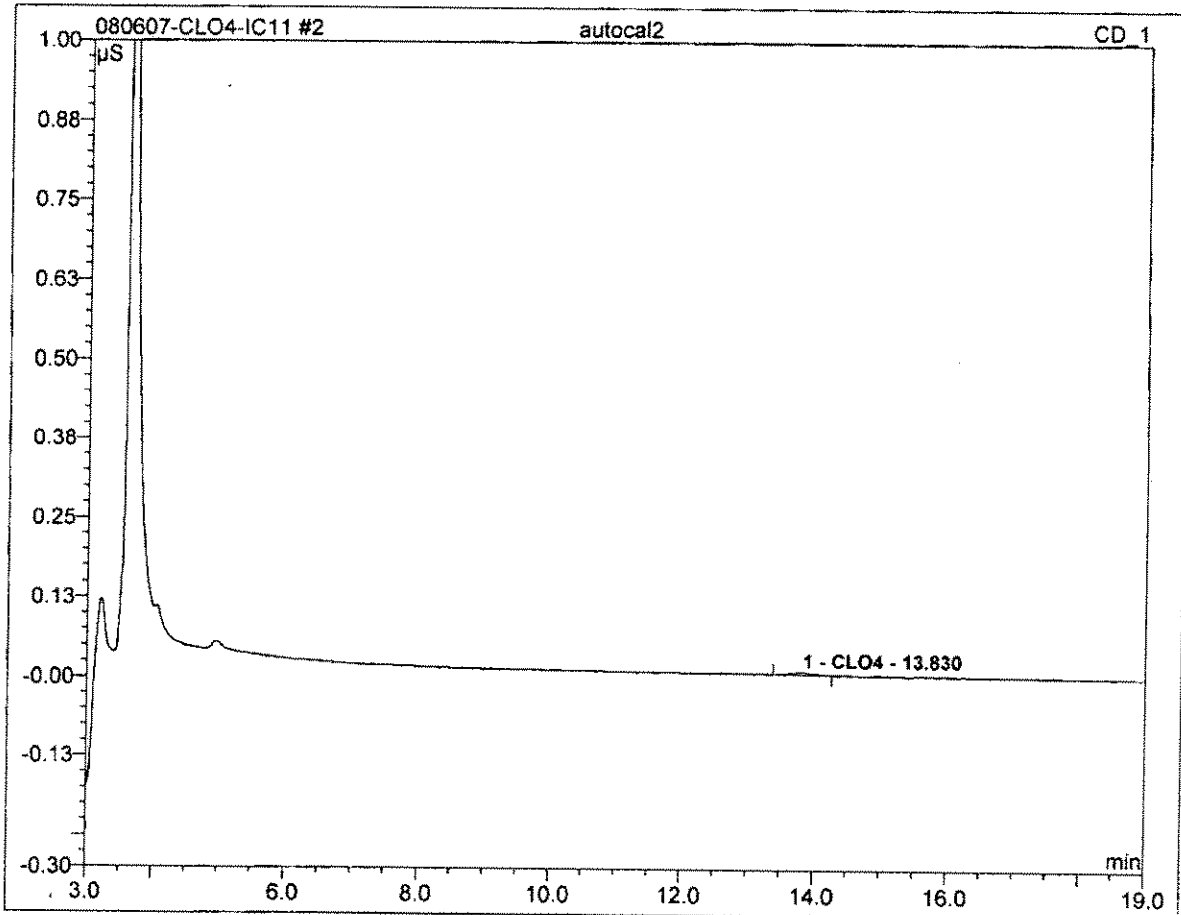
No.	Name	Program	Method	Inj. Date/Time	*Analyst
43	-MRLCHK-4	Perchlorate-IC11	IC#4-CLO4-LOW	8/6/2007 11:55:00 PM	clv
44	-LCS1	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 12:17:24 AM	clv
45	-LCS2	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 12:39:48 AM	clv
46	2708030247_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 1:02:12 AM	clv
47	2708030248_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 1:24:36 AM	clv
48	2708030249_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 1:47:00 AM	clv
49	2708040012	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 2:09:23 AM	clv
50	2708040013	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 2:31:47 AM	clv
51	2708040013-MS	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 2:54:11 AM	clv
52	2708040013-MSD	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 3:16:35 AM	clv
53	2708040001_1/1000	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 3:38:59 AM	clv
54	2708040002_1/1000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 4:01:23 AM	clv
55	2708040003_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 4:23:46 AM	clv
56	2708040004_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 4:46:10 AM	clv
57	2708040005_1/50000	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 5:08:34 AM	clv
58	CCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 5:30:58 AM	clv
59	2708040006_1/50000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 5:53:22 AM	clv
60	2708040007_1/50000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 6:15:46 AM	clv
61	2708040008_1/50000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 6:38:10 AM	clv
62	2708040009_1/50000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 7:00:33 AM	clv
63	2708040010_1/1000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 7:22:57 AM	clv
64	2708040011_1/1000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 7:45:21 AM	clv
65	2707310412_1/50000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 8:07:45 AM	clv
66	2708010223_1/50000DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 8:30:09 AM	clv
67	2708010297_1/6DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 8:52:33 AM	clv
68	2708010300_1/4DNR	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 9:14:56 AM	clv
69	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 9:37:20 AM	clv
70	WASH	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 1:07:50 PM	clv
71	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 1:30:10 PM	clv
72	HCV	Perchlorate-IC11	IC#4-CLO4-LOW	8/7/2007 1:52:31 PM	clv
73	STOP	IC11 Stop	IC#4-CLO4-LOW	8/7/2007 2:14:52 PM	clv

1 autocal1			
0			
Sample Name:	autocal1	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 09:38	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



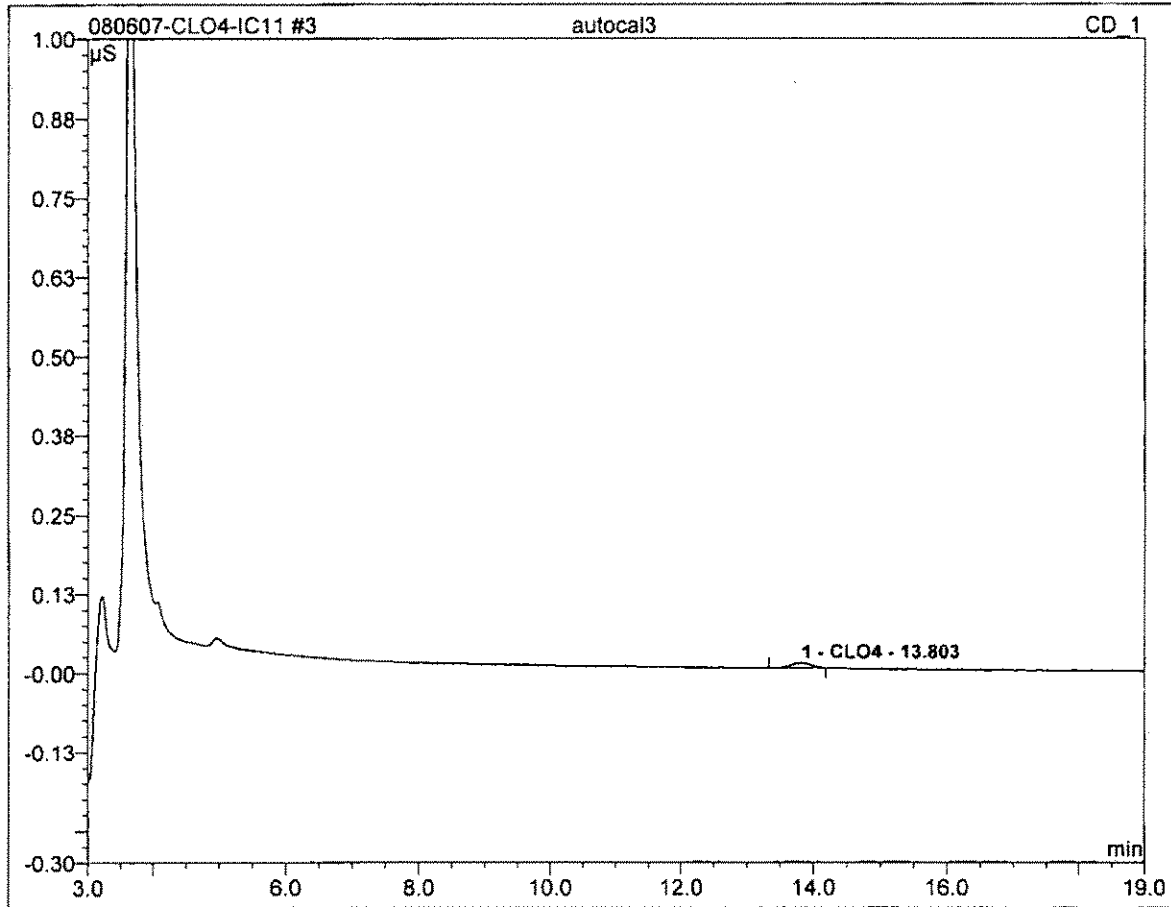
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

2 autocal2			
2			
Sample Name:	autocal2	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 10:01	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



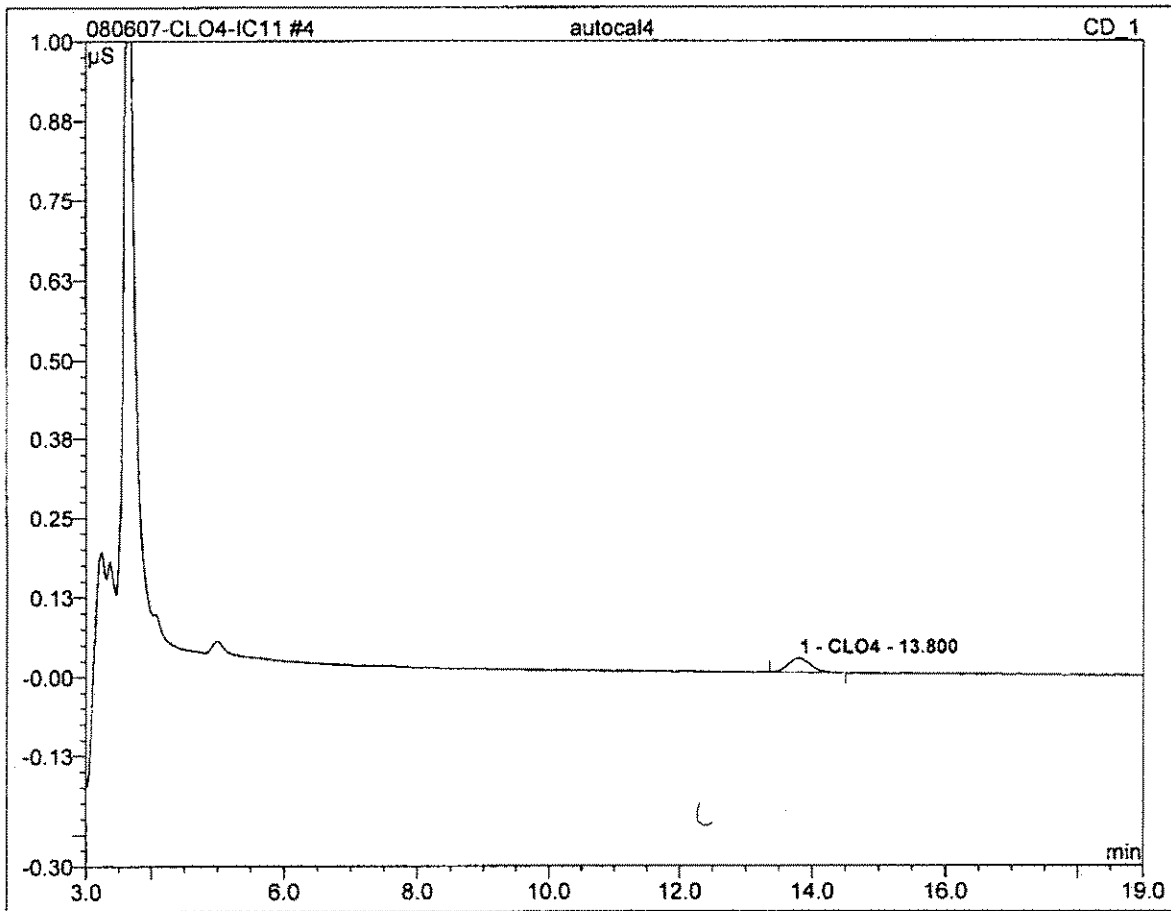
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.83	CLO4	0.004	0.002	100.00	2.225	BMB
Total:			0.004	0.002	100.00	2.225	

3 autocal3			
4			
Sample Name:	autocal3	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 10:23	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



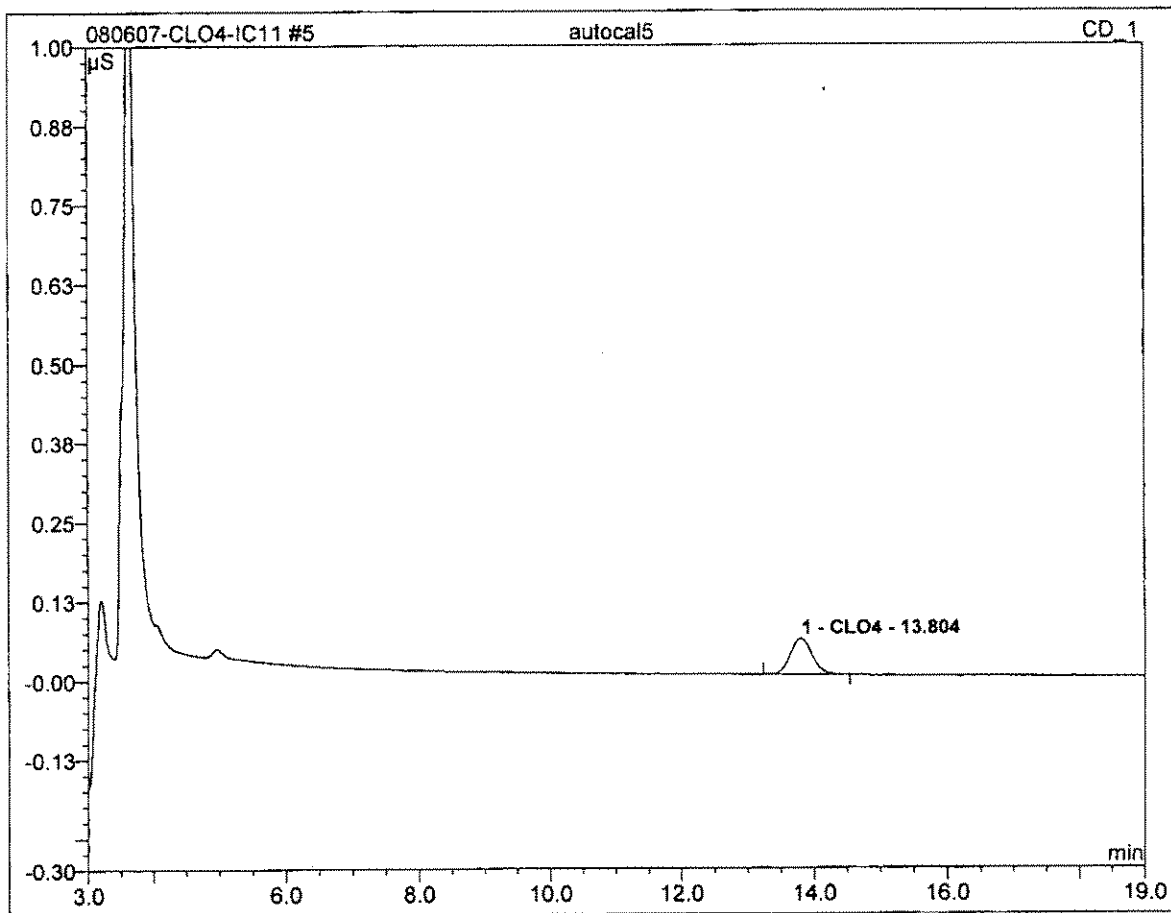
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.80	CLO4	0.008	0.003	100.00	3.631	BMB
Total:			0.008	0.003	100.00	3.631	

4 autocal4			
10			
Sample Name:	autocal4	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 10:45	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



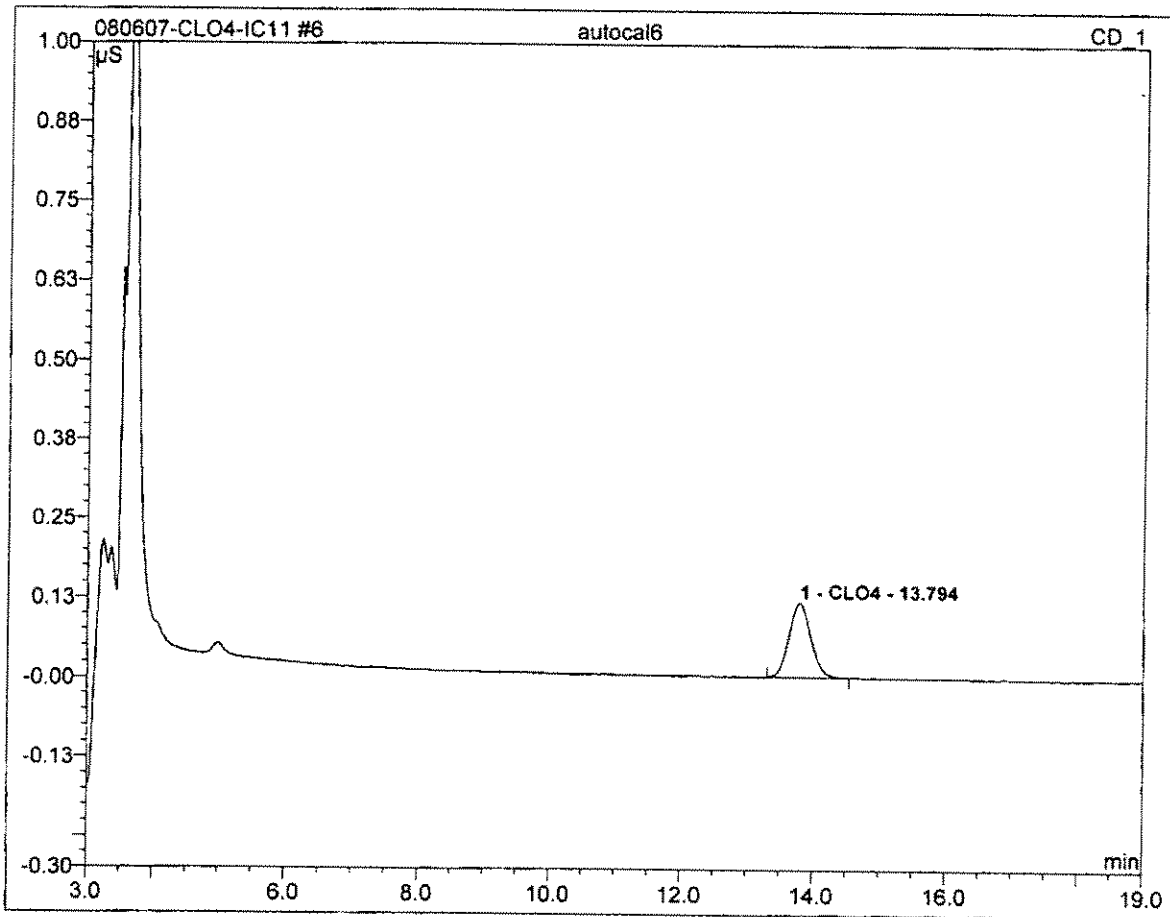
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.80	CLO4	0.023	0.009	100.00	10.334	BMB
Total:			0.023	0.009	100.00	10.334	

5 autocal5			
25			
Sample Name:	autocal5	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 11:08	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



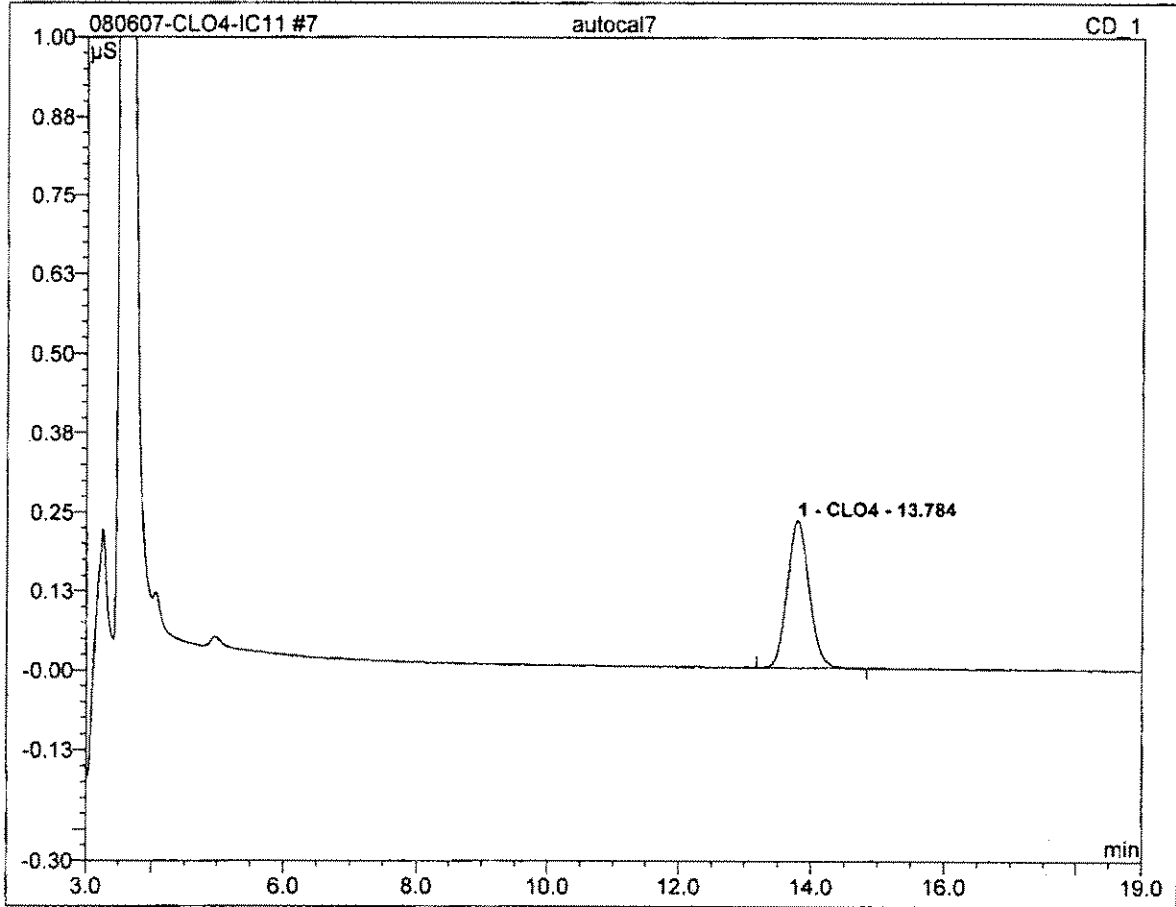
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.80	CLO4	0.056	0.021	100.00	24.664	BMB
Total:			0.056	0.021	100.00	24.664	

6 autocal6			
50			
Sample Name:	autocal6	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 11:30	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



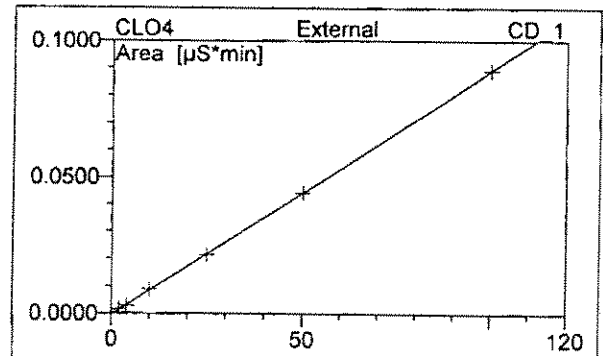
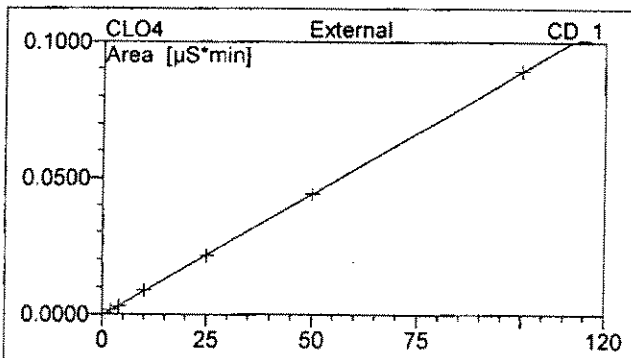
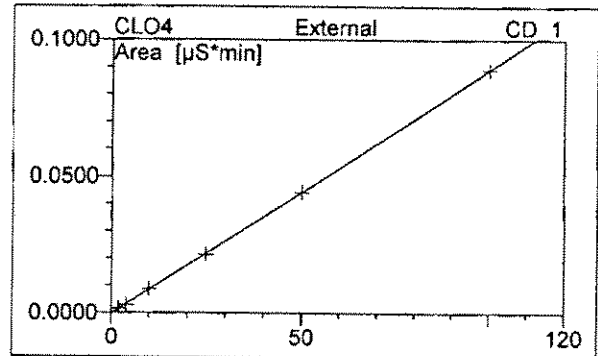
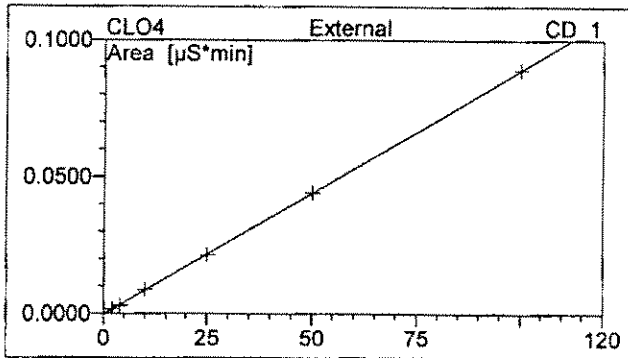
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.79	CLO4	0.116	0.044	100.00	50.170	BMB
Total:			0.116	0.044	100.00	50.170	

7 autocal7			
100			
Sample Name:	autocal7	Channel:	CD_1
Sample Type:	standard	Control Program:	Perchlorate-IC11
Recording Time:	08/02/2007 11:53	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



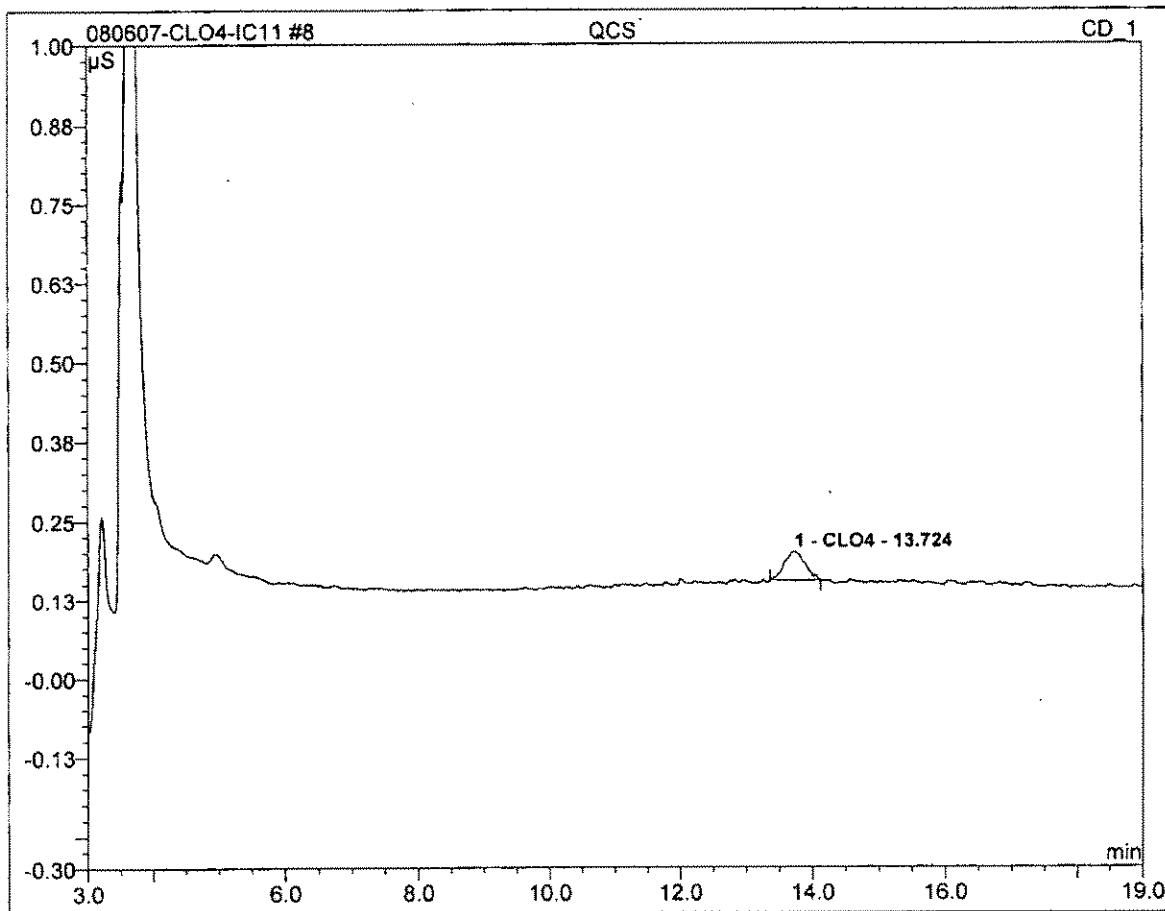
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.78	CLO4	0.233	0.089	100.00	99.976	BMB
Total:			0.233	0.089	100.00	99.976	

7 autocal7		
100		
Sample Name:	autocal7	Injection Volume: 20.0
Vial Number:	109	Channel: CD_1
Sample Type:	standard	Wavelength: n.a.
Control Program:	Perchlorate-IC11	Bandwidth: n.a.
Quantif. Method:	IC#4-CLO4-LOW	Dilution Factor: 1.0000
Recording Time:	8/2/2007 11:53	Sample Weight: 1.0000
Run Time (min):	20.00	Sample Amount: 1.0000



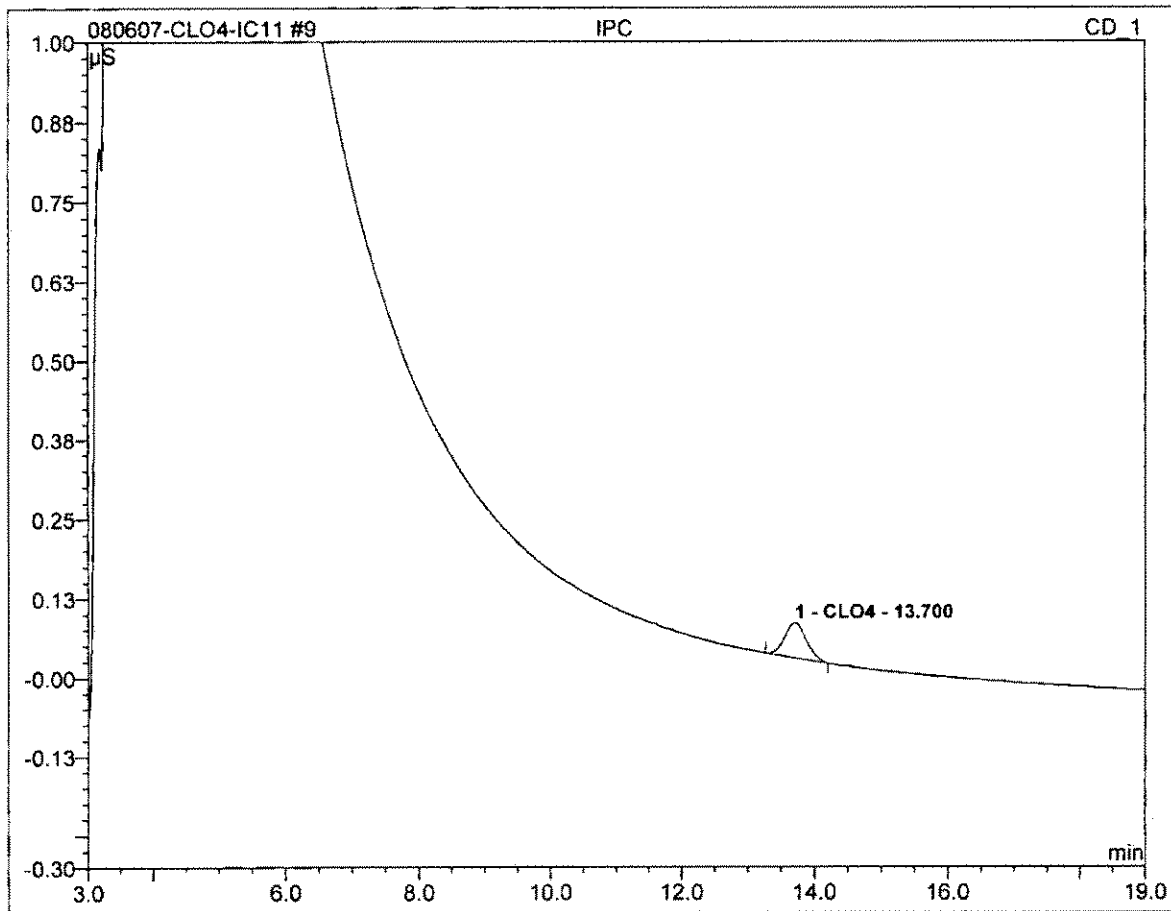
No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	13.78	CLO4	QOff	6	99.9966	-0.0005	0.0009	0.0000
Average:					99.9966	-0.0005	0.0009	0.0000

8 QCS			
20			
Sample Name:	QCS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 10:51	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



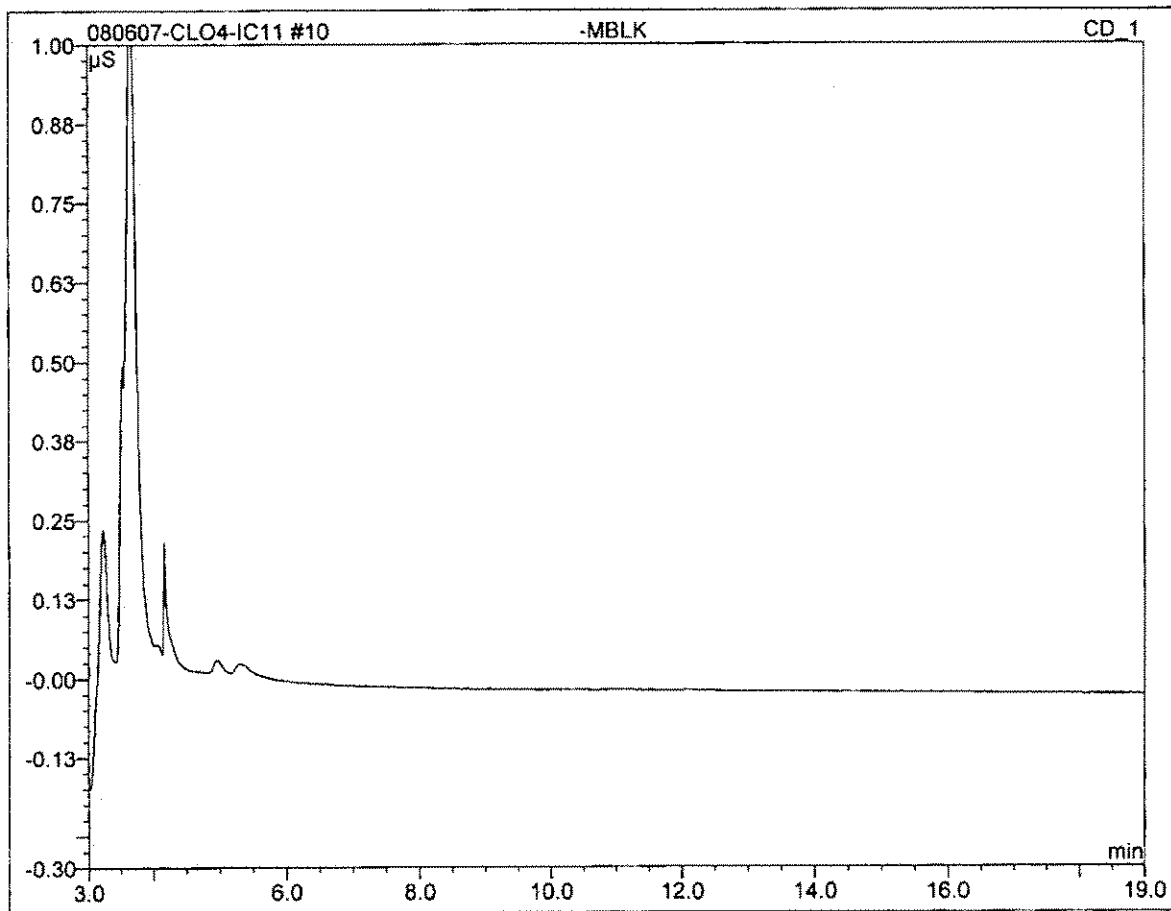
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.72	CLO4	0.045	0.016	100.00	18.617	BMB
Total:			0.045	0.016	100.00	18.617	

9 IPC			
25			
Sample Name:	IPC	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 11:13	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



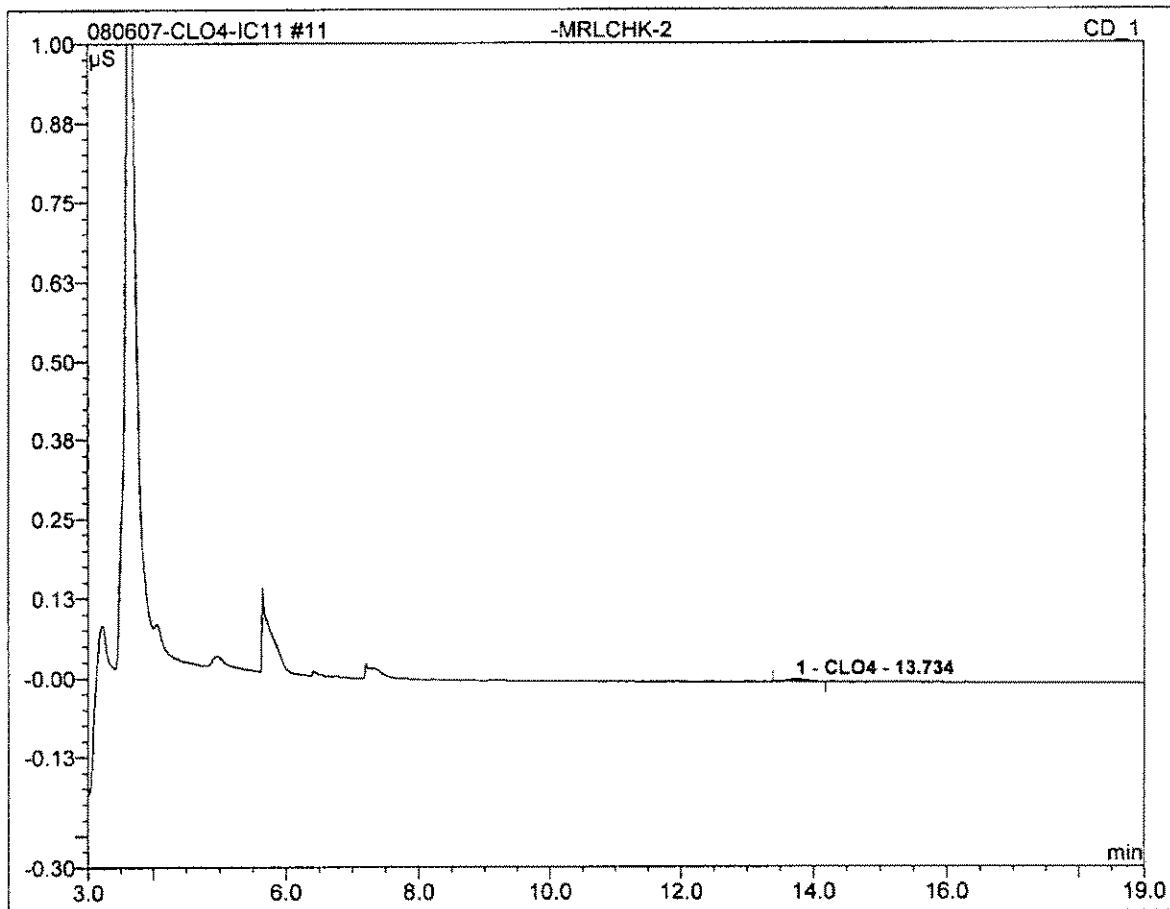
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.70	CLO4	0.055	0.021	100.00	23.702	BMB
Total:			0.055	0.021	100.00	23.702	

10 -MBLK			
Sample Name:	-MBLK	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 11:35	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



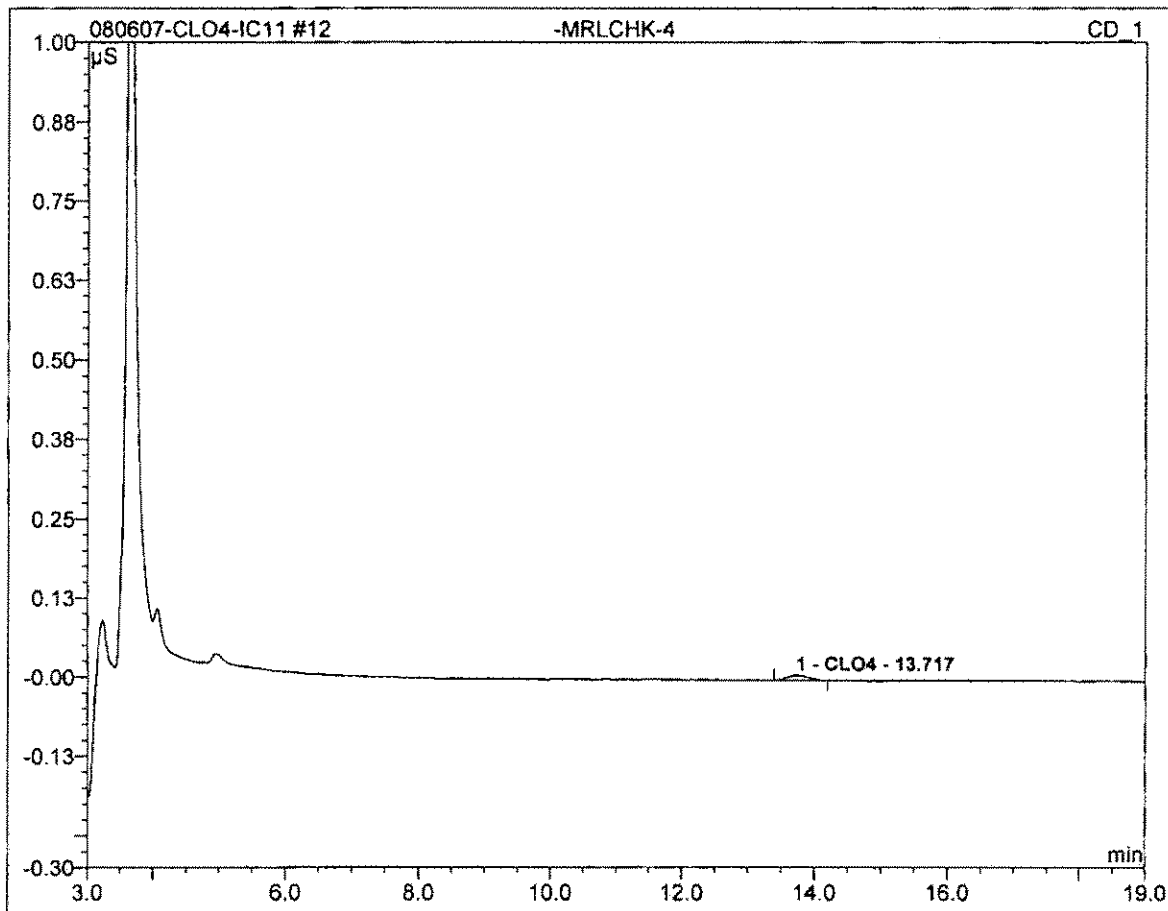
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

11 -MRLCHK-2			
2			
Sample Name:	-MRLCHK-2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 11:58	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



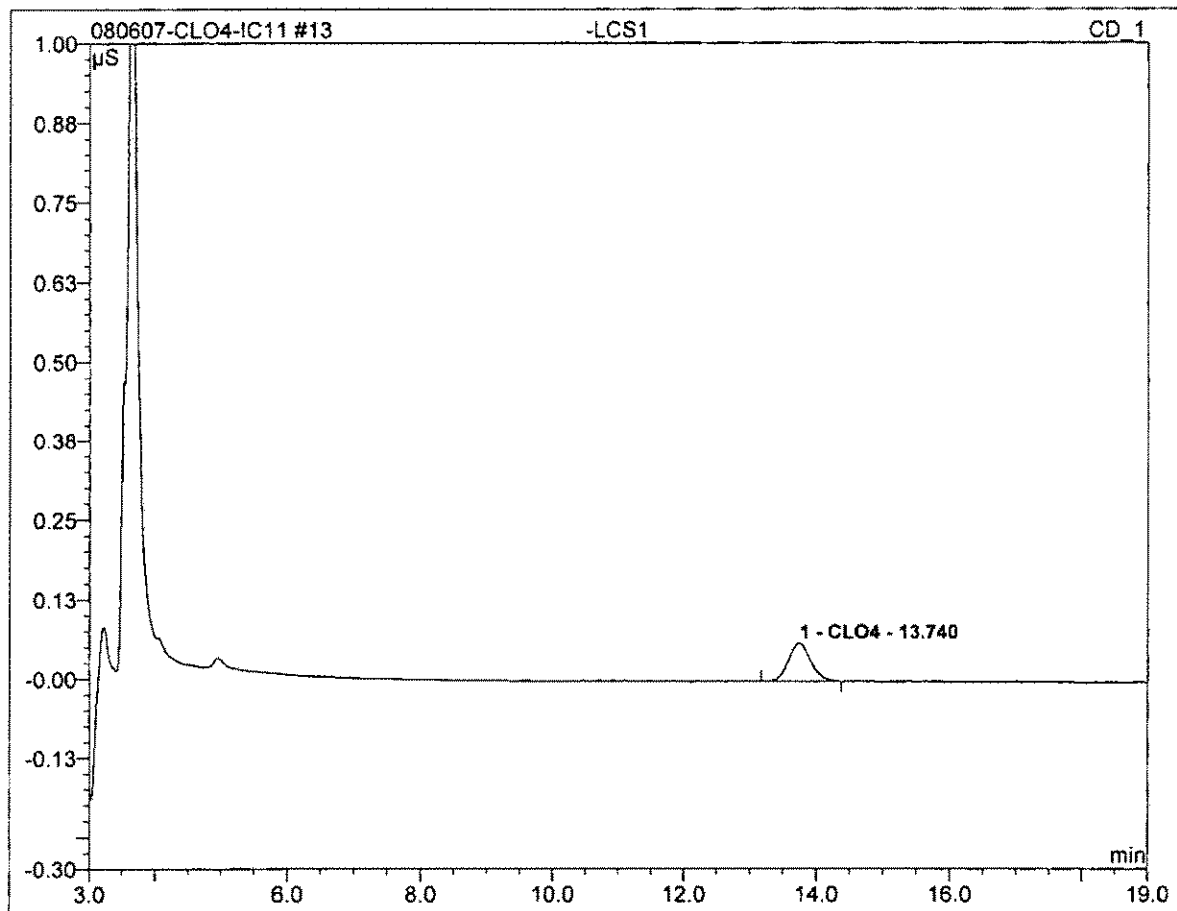
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.004	0.001	100.00	2.096	BMB
Total:			0.004	0.001	100.00	2.096	

12 -MRLCHK-4			
4			
Sample Name:	-MRLCHK-4	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 12:20	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



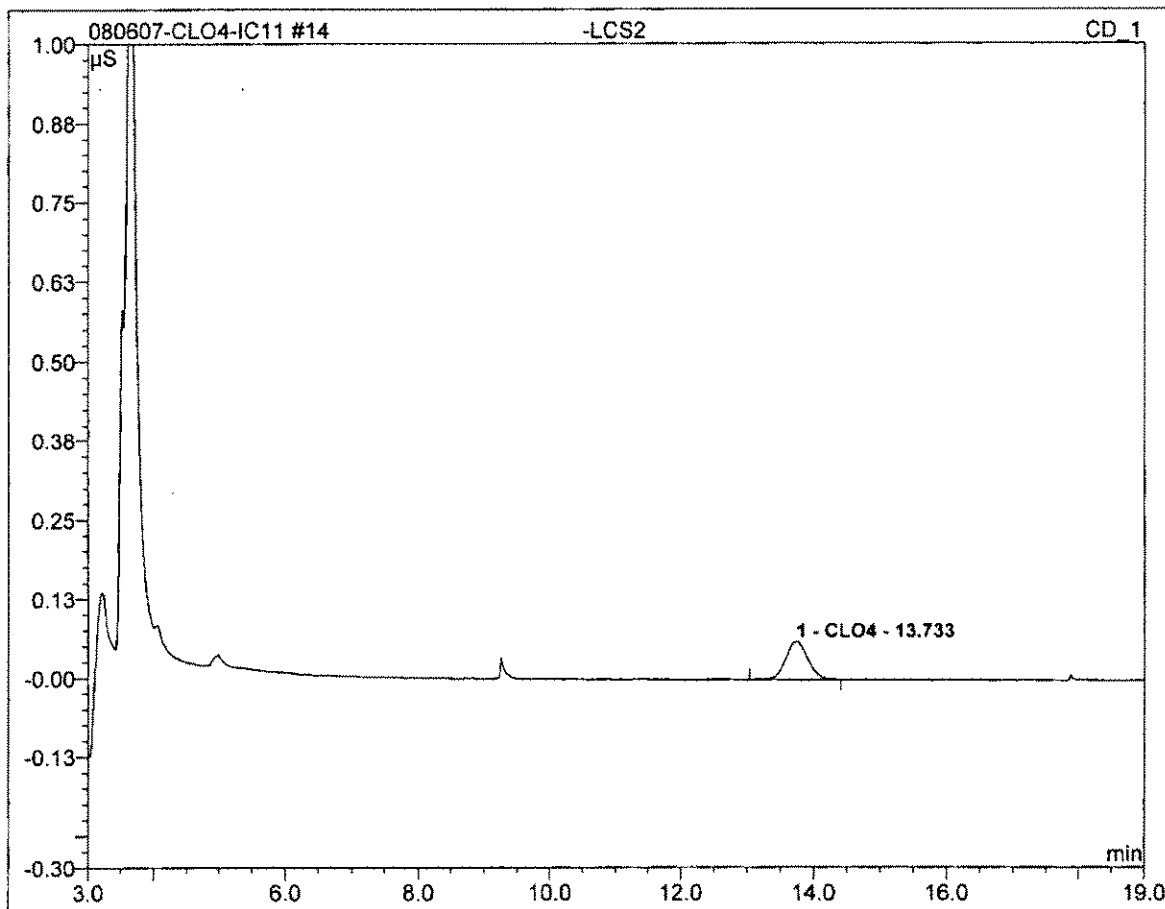
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.72	CLO4	0.008	0.003	100.00	3.679	BMB
Total:			0.008	0.003	100.00	3.679	

13 -LCS1			
25			
Sample Name:	-LCS1	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 12:43	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



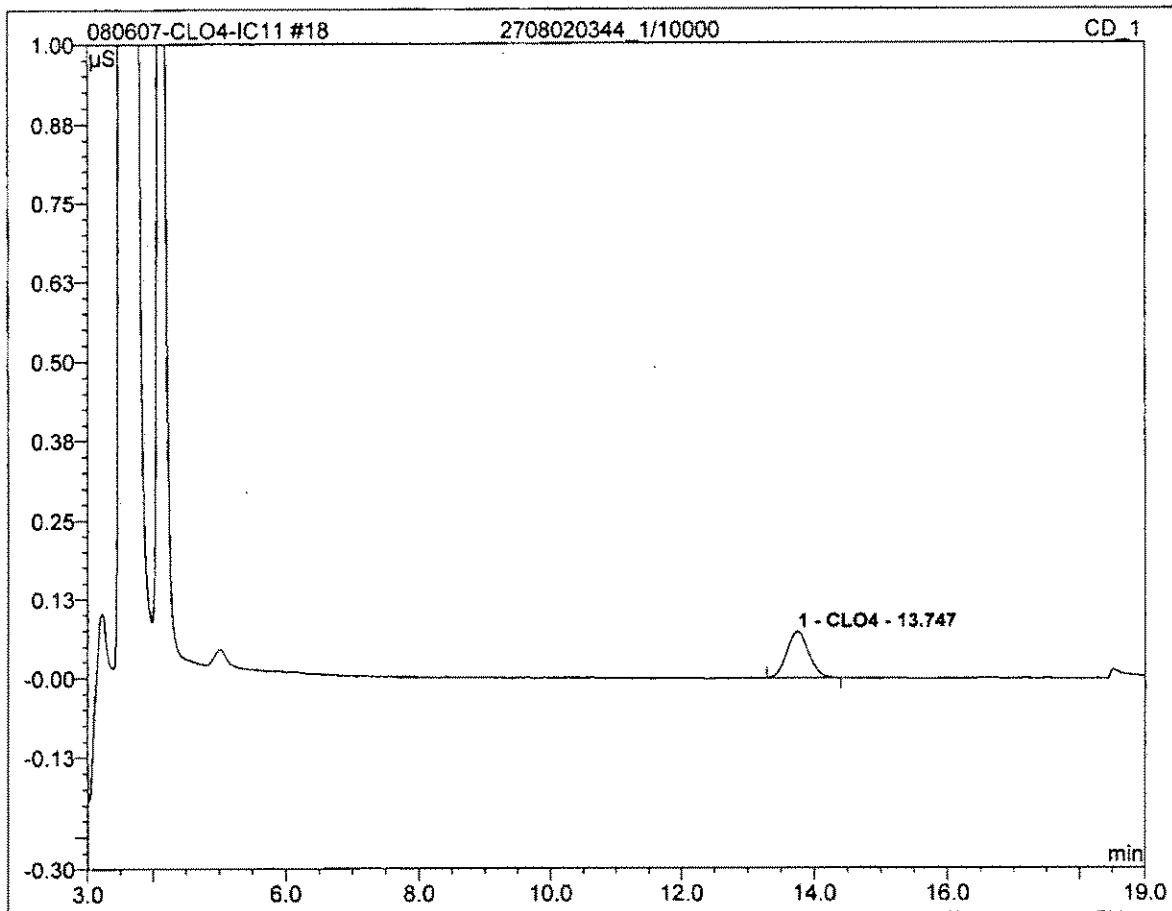
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.74	CLO4	0.060	0.023	100.00	26.573	BMB
Total:			0.060	0.023	100.00	26.573	

14 -LCS2			
25			
Sample Name:	-LCS2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 13:05	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



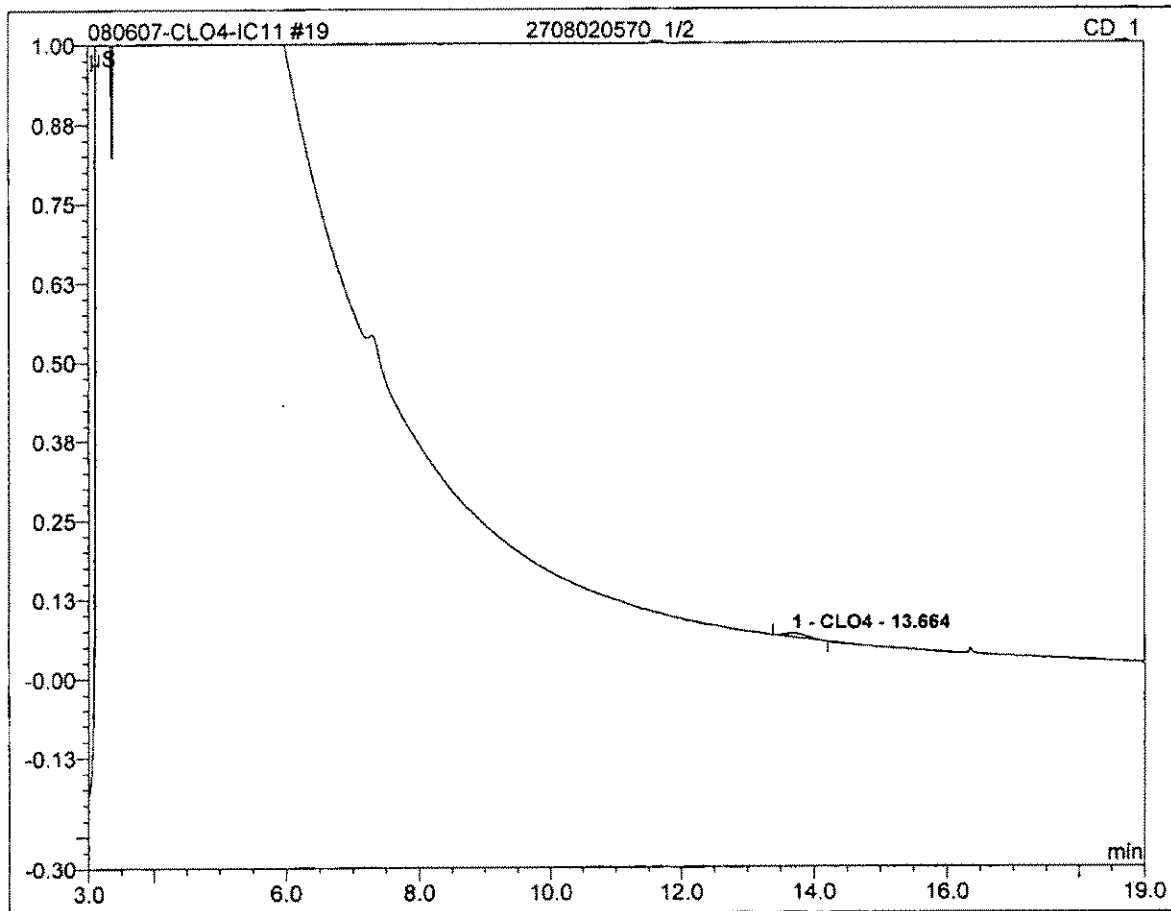
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.060	0.023	100.00	26.708	BMB
Total:			0.060	0.023	100.00	26.708	

18 2708020344_1/10000			
RR/CONFIRMED			
Sample Name:	2708020344_1/10000	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 14:35	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	10000.0000



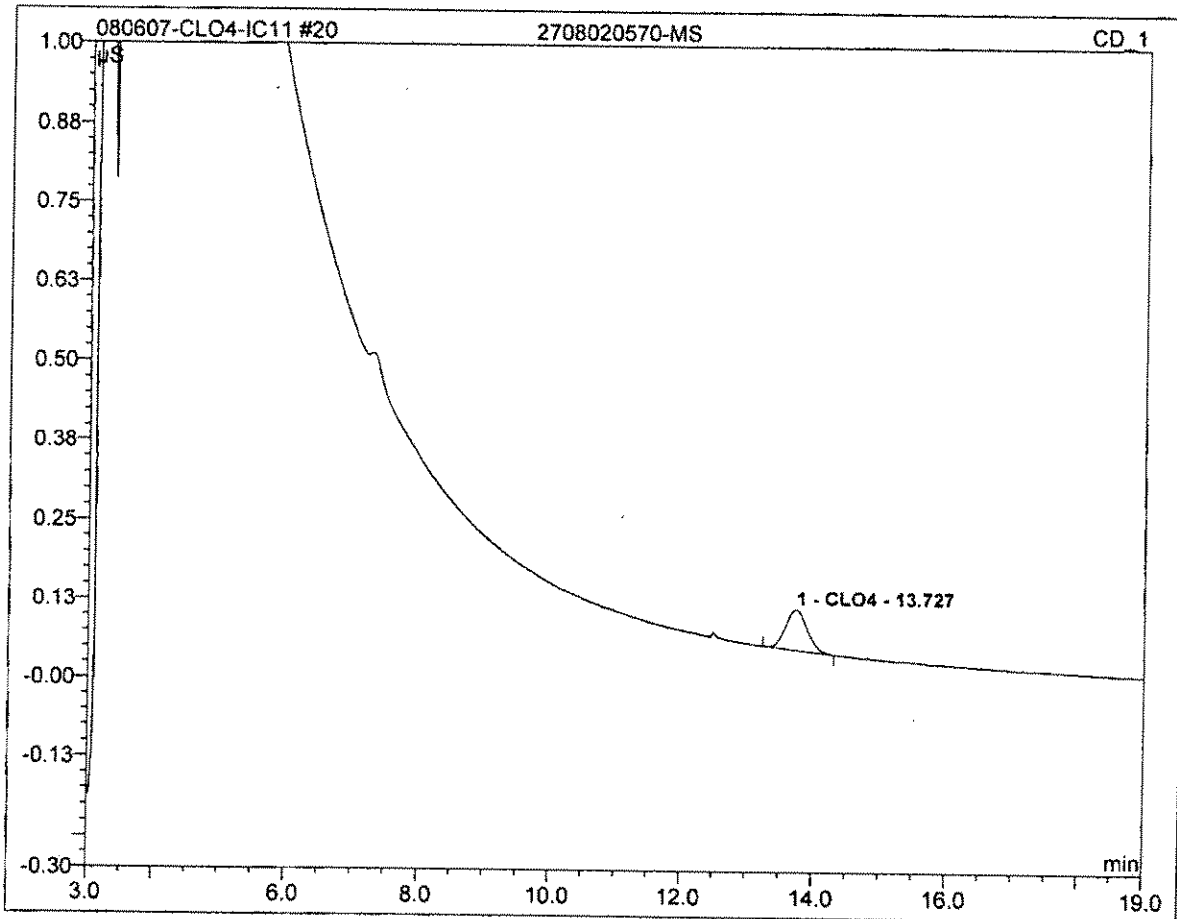
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.75	CLO4	0.073	0.028	100.00	314854.582	BMB
Total:			0.073	0.028	100.00	314854.582	

19 2708020570_1/2			
RR/CONFIRMED			
Sample Name:	2708020570_1/2	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 14:57	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	2.0000



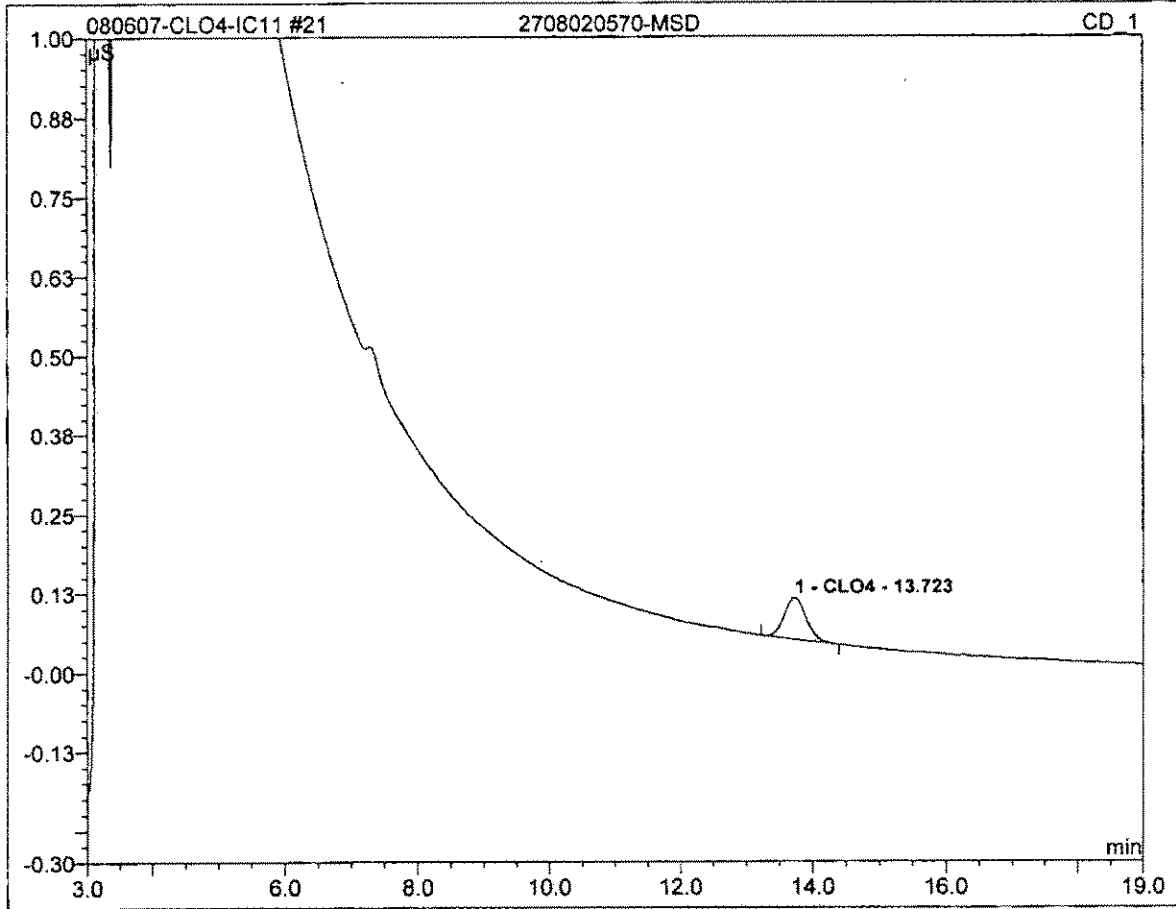
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	13.66	CLO4	0.006	0.003	100.00	7.104	BMB
Total:			0.006	0.003	100.00	7.104	

20 2708020570-MS			
25			
Sample Name:	2708020570-MS	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 15:19	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	2.0000



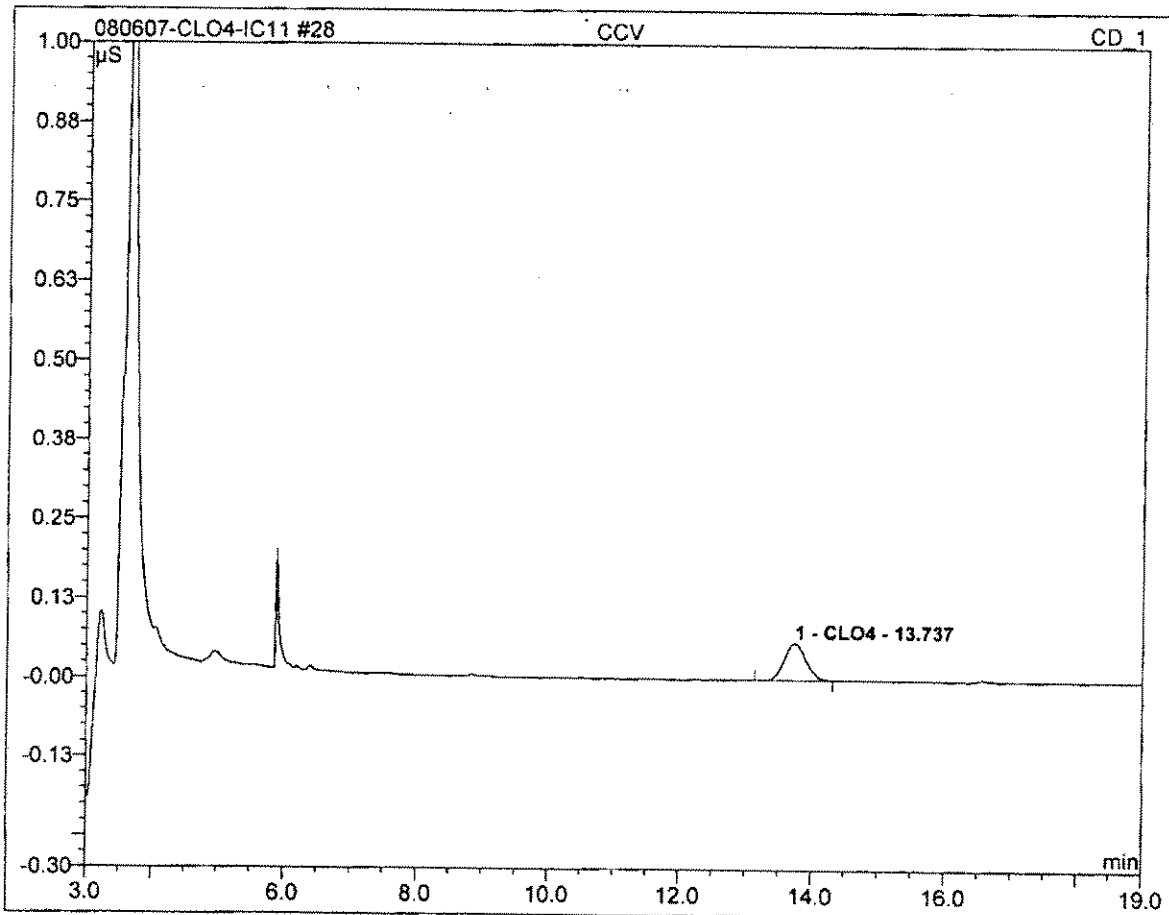
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.73	CLO4	0.064	0.024	100.00	55.415	BMB
Total:			0.064	0.024	100.00	55.415	

21 2708020570-MSD			
25			
Sample Name:	2708020570-MSD	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 15:42	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	2.0000



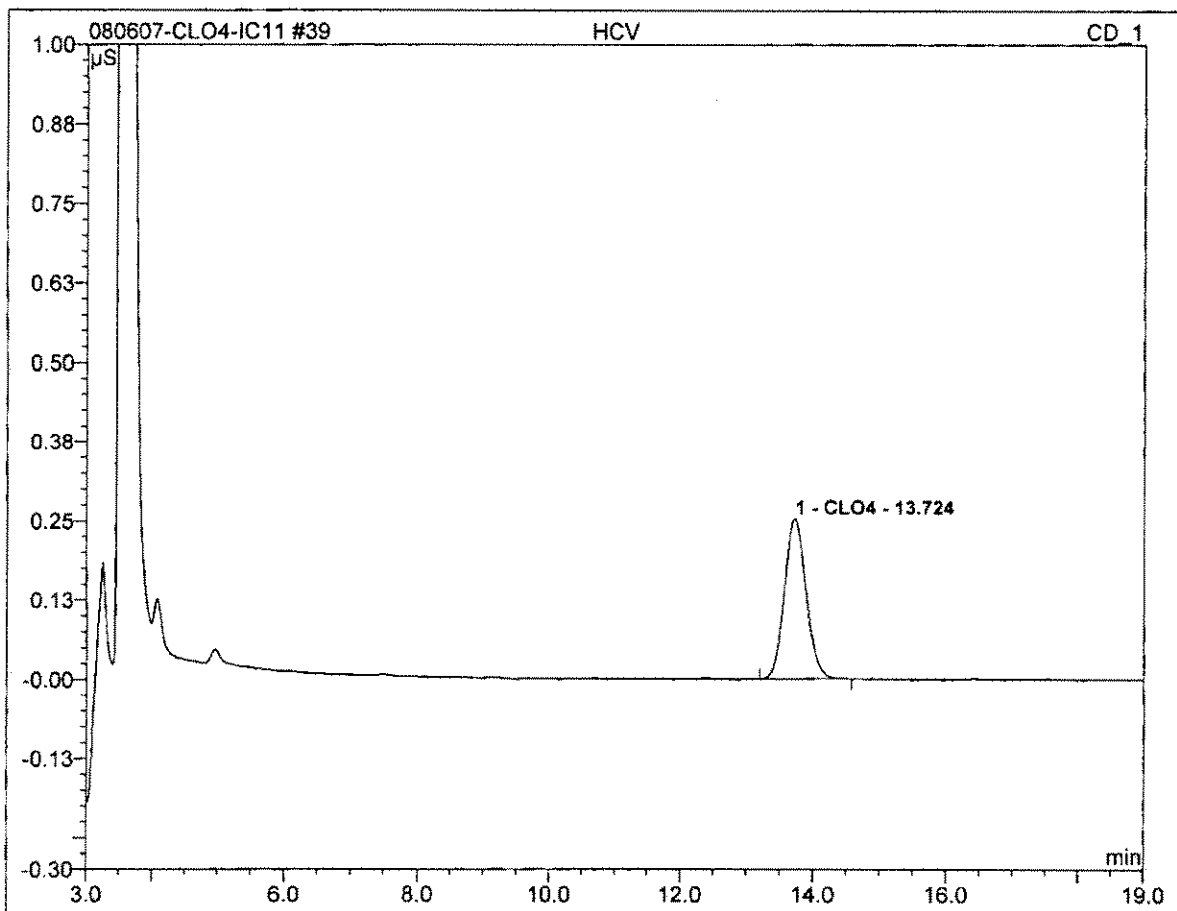
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.72	CLO4	0.065	0.025	100.00	56.883	BMB
Total:			0.065	0.025	100.00	56.883	

28 CCV			
25			
Sample Name:	CCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 18:19	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



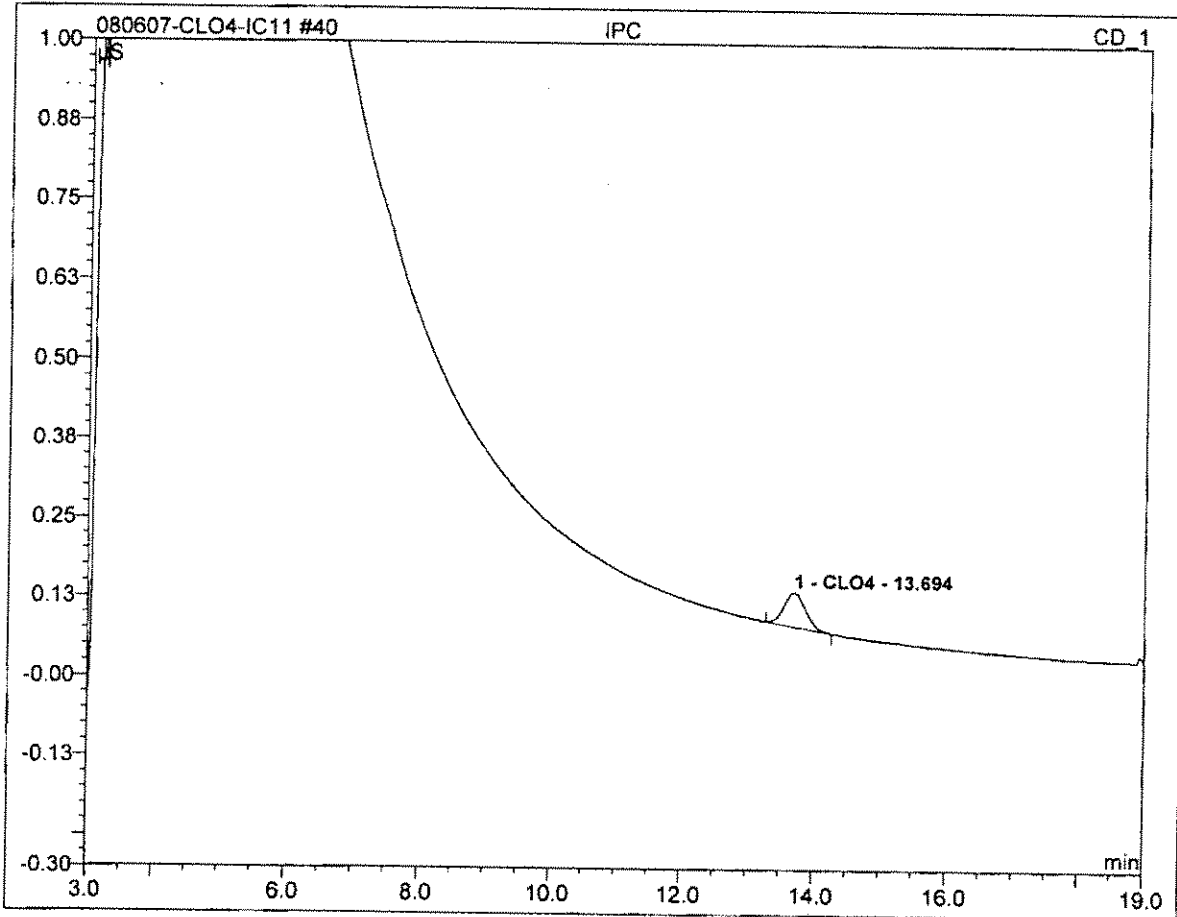
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	13.74	CLO4	0.058	0.022	100.00	25.363	BMB
Total:			0.058	0.022	100.00	25.363	

39 HCV			
100			
Sample Name:	HCV	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 22:25	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.72	CLO4	0.252	0.095	100.00	106.685	BMB
Total:			0.252	0.095	100.00	106.685	

40 IPC			
25			
Sample Name:	IPC	Channel:	CD_1
Sample Type:	unknown	Control Program:	Perchlorate-IC11
Recording Time:	08/06/2007 22:47	Quantif. Method:	IC#4-CLO4-LOW
Analyst:	clv	Dilution Factor:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	13.69	CLO4	0.055	0.020	100.00	23.594	BMB
Total:			0.055	0.020	100.00	23.594	

**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: 092706/110106/120106/121606/012007/022007/030607
Manufacturer: _____
Storage Condition: _____

MW #: Raja060827-1
By: Raja
Matrix: aq
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 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: 092706/110106/120106/121606/012007/022007/030607
Manufacturer: _____
Storage Condition: _____

MW #: Raja060827-2
By: Raja
Matrix: aq
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 ₂ :- 200ppb Br:- 100ppb
Comment: Prep: _____ Exp: _____			

Reagent: Perchlorate Calibration Stock Solution
Date Received/Prepped: 091306/101106/111306/121107/022007/022807
Date Expired: 121306/101107/022007/042107/052807
Manufacturer: _____
Storage Condition: _____

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

Component	Comment	Standard	Concentration
Perchlorate 1000ppm Exp: -072809	100 mL → Dilute with D.I. water to 100ml	R 201449	1000ppb
MS / MSD			
Comment: 030407/042707/051607/061207/ 060407/072707/081607/091207/			

Reagent Preparation Documentation

Reagent: ClO₄ Calibration Standard #1
Date Received/Prepped: 09/30/10 10/11/06 11/30/06 12/21/07 1/27/08 1/22/09
Date Expired: 12/30/10 11/07 10/23/07 11/21/11 12/30/07 10/22/07
Manufacturer: _____
Storage Condition: _____

MW #: Raja-060913-2
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ Cal. Stock sol'n	200 mL → Dilute to 100ml with D.I. water	Raja-060913-1	2.0 ppb

Comment: 03/04/07 04/27/07 05/16/07 06/12/07
06/04/07 07/27/07 08/16/07 09/12/07

Reagent: ClO₄ Calibration Standard #2
Date Received/Prepped: 09/30/10 10/11/06 11/30/06 12/21/07 1/27/08 1/22/09
Date Expired: 12/30/10 11/07 10/23/07 11/21/11 12/30/07 10/22/07
Manufacturer: _____
Storage Condition: _____

MW #: Raja-060913-3
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ Cal. Stock sol'n	400 mL → dilute to 100ml with D.I. water	Raja-060913-1	4.0 ppb

Comment: 05/14/07 04/27/07 05/16/07 06/12/07
06/04/07 07/27/07 08/16/07 09/12/07

Reagent: ClO₄ Calibration Standard #3
Date Received/Prepped: 09/30/10 10/11/06 11/30/06 12/21/07 1/27/08 1/22/09
Date Expired: 12/30/10 11/07 10/23/07 11/21/11 12/30/07 10/22/07
Manufacturer: _____
Storage Condition: _____

MW #: Raja-060913-4
By: Raja
Matrix: aq
Amount: 100ml
Lot #: _____

Component	Comment	Standard	Concentration
ClO ₄ Cal. Stock sol'n	1ml → Dilute to 100ml with D.I. water	Raja-060913-1	10.0 ppb

Comment: 03/04/07 04/27/07 05/16/07 06/12/07
06/04/07 07/27/07 08/16/07 09/12/07

Reagent Preparation Documentation

Reagent: ClO₄ Calibration Standard #4
Date Received/Prepped: 091306/101106 / 113006/101210 / 102210 / 092110 / 092110
Date Expired: 121306/101107 / 102300 / 104210 / 105220 / 106040
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-5
By: Raja
Matrix: ag
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 / 102107 / 102280 / 103040
Date Expired: 121306/101107 / 102300 / 104210 / 105220 / 106040
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-6
By: Raja
Matrix: ag
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 / 102107 / 102280 / 103040
Date Expired: 121306/101107 / 102300 / 104210 / 105220 / 106040
Manufacturer: _____
Storage Condition: _____

MW #: Raja060913-7
By: Raja
Matrix: ag
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

ISO 9001:2000 Quality System Registered
 ISO/IEC Guide 17025 ANSI Z540 Compliant
 DLS ANSI/PAAB Accredited

CERTIFIED WEIGHT REPORT

Part Number: 57001
 Lot Number: 072808
 Description: Perchlorate
 Expiration Date: 072809

Solvent(s): Lot #
 072808 ASTM Type 1 Water

R201449

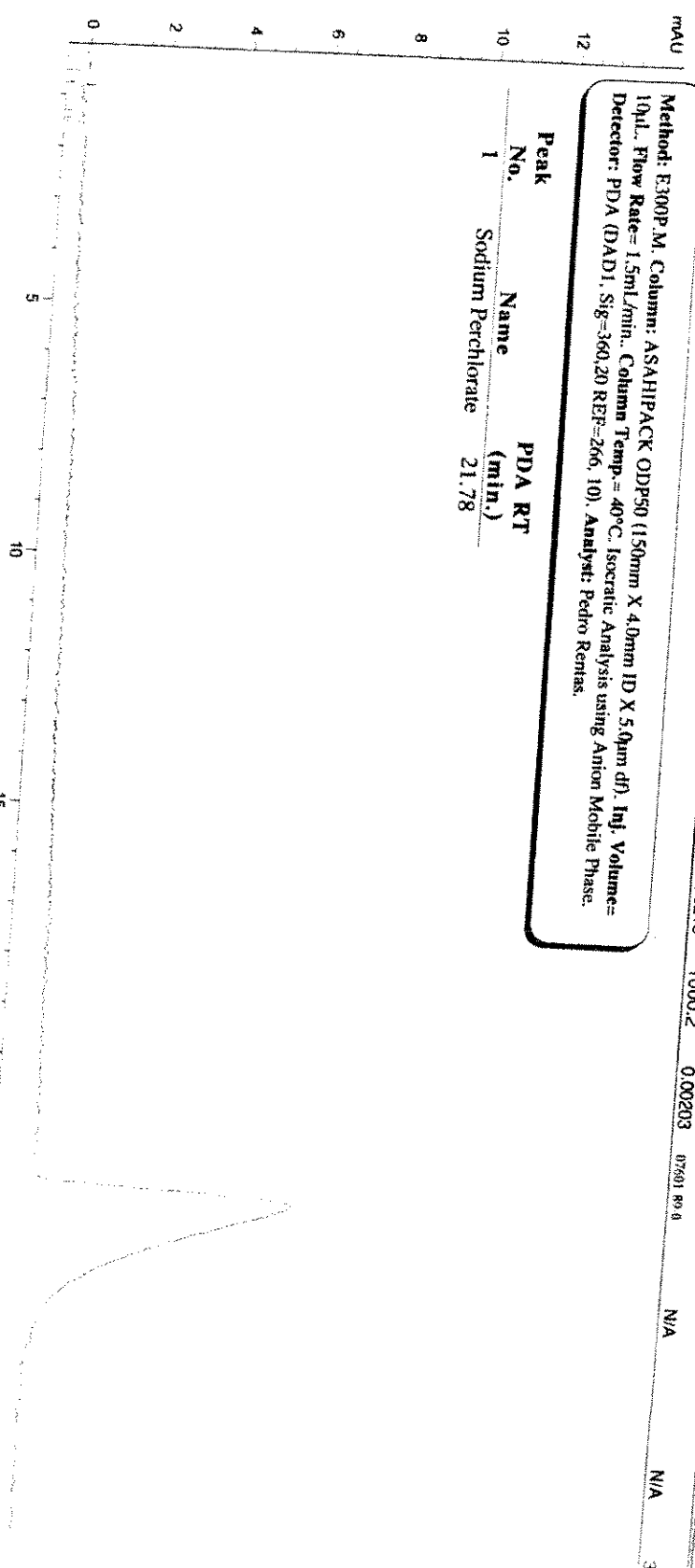
Weights shown below were combined and diluted to (mL): 1000.55 SE-05 Balance Uncertainty
 0.084 Flask Uncertainty

Formulated By:	Lawrence Barry	072808
Reviewed By:	<i>Lawrence Barry</i>	072808
	Pedro L. Rentas	

Compound	Lot	Number	Conc (µg/mL)	Purity	Uncertainty Assay	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-)	MSDS Information	NIST			
1. Sodium Perchlorate (ClO4)	IN119	AR1067307D	1000.0	99.0	0.10	81.2	1.2319	1.23216	1000.2	0.00203	07601 89.8	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 (DAD). Sig=360,20 REF=266,10. Analyst: Pedro Rentas.

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



P#57001 L#072808