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Level IV Data Package

MWH Group 245247

Method: EPA 300.1B

2806240538
2806240540

DBP QC Checklist

Analysis Date: 07-07-08 Analyst: Raja

Instrument: IC12

QC'd by NH Date 7/10/08

Batch # 1 +2

Calibration including QCS(Secondary Source)

✓ Correlation Coefficient of calibration curve for linear curve is 0.995 or better. (0.99 for quadratic)

N/A CLO2 ✓ CLO3 ✓ BR

Initial QC Check Samples (MCV, CCB,MBLANK, MRL) to be analyzed with every batch (up to 20 samples) or part thereof

✓ MCV is analyzed before samples:

✓ CLO2/CLO3: 90-110% (180-220ppb) ✓ BR: 90-110% (90-110ppb)

✓ CCB is analyzed before samples and after MCV and HCV

✓ MLBANK is analyzed before samples. ✓ CLO2/CLO3 ✓ BR , if present, is < or = half of the MRL.

N/A *CLO2:* MRL at 10ppb is within 75%-125% (7.5-12.5ppb)

✓ *CLO3:* MRL at 10ppb is within 75%-125% (7.5-12.5ppb)

✓ *BR:* MRL at 5.0ppb is within 75%-125% (3.75-6.25ppb)

LCS/LCSD: Accepted criteria are between 90-110% recovery

N/A CLO2: 180-220ppb for 200ppb

✓ CLO3: 180-220ppb for 200ppb

✓ BR: 90-110ppb for 100ppb

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

MB/MM 7/12/08

MS/MSD: Acceptance criteria are between 80%-120% recovery.

N/A CLO2: 80-120ppb for 100ppb spike

✓ CLO3: 80-120ppb for 100ppb spike

✓ BR: 40.0-60.0ppb for 50ppb spike

✓ RPD between MS/MSD is within 15%

✓ One pair, and one MS is analyzed per batch (up to 20 samples) or part thereof

Continuing Calibration Verification (MCV and HCV) are required

✓ MCV recovery is between 90-110%

N/A CLO2 (180-220ppb) ✓ CLO3 (180-220ppb) ✓ BR (90-110ppb)

✓ HCV recovery is between 90-110%

N/A CLO2 (720-880ppb) ✓ CLO3 (720-880ppb) ✓ BR (360-440ppb)

Samples

✓ All samples for CLO3 and BR are analyzed within 28 days of collection.

✓ All samples for CLO2are analyzed within 14 days of collection.

QIR

N/A QIR needed for failed QC

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

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb Br CD_1	
1,	WASH,		07/05/08 12:05,	1.0,	n.a.	
2,	autocal1,		07/05/08 12:37,	1.0,	n.a.	
3,	autocal2,	S1-10/5/10	07/05/08 13:09,	1.0,	5.3813,	
4,	autocal3,	S2-20/10/20	07/05/08 13:42,	1.0,	6.6044,	
5,	autocal4,	S3-100/50/100	07/05/08 14:14,	1.0,	45.3355,	
6,	autocal5,	S4-200/100/200	07/05/08 14:47,	1.0,	100.3002,	
7,	autocal6,	S5-400/200/400	07/05/08 15:19,	1.0,	212.0343,	
8,	autocal7,	S6-800/400/800	07/05/08 15:51,	1.0,	394.5710,	
9,	WASH,	S6-800/400/800	07/07/08 11:13,	1.0,	n.a.	
10,	MCV,	200/100/200	07/07/08 11:46,	1.0,	101.0986,	101%
11,	CCB,		07/07/08 12:18,	1.0,	n.a.	
12,	MRLCHK,	S1-10/5/10	07/07/08 12:50,	1.0,	9.3554,	
13,	MBLK,		07/07/08 13:23,	1.0,	n.a.	
14,	LCS1,	RAJA08061-9	07/07/08 13:55,	1.0, ✓	93.6343,	93.6%
15,	LCS2,	200/100/200	07/07/08 14:28,	1.0, ✓	93.9825,	94.0%
16,	2806240207_1/500,	BR	07/07/08 15:00,	500.0, ✓	115183.2901,	
17,	2807020421_1/2,	BR	07/07/08 15:32,	2.0, ✓	689.0703,	
18,	2806260152_1/2,	BR	07/07/08 16:05,	2.0, ✓	622.0496,	
19,	2806240551,	BR	07/07/08 16:37,	1.0, ✓	47.0085,	
20,	2806250382,	BR	07/07/08 17:10,	1.0, ✓	92.1467,	
21,	2806250382MS,		07/07/08 17:42,	1.0, ✓	135.4247,	45.3-86.6%
22,	2806250382MSD,		07/07/08 18:14,	1.0, ✓	138.1613,	46.0-92.0%
23,	2806250384,	BR	07/07/08 18:47,	1.0, ✓	92.2226,	
24,	MRLCHK,	RERUN	07/07/08 20:03,	1.0, ✓	5.0065,	100%
25,	2806250677,	BR	07/07/08 20:36,	1.0, ✓	134.6938,	
26,	2806250678_1/10,	BR	07/07/08 21:08,	10.0, ✓	779.4830,	
27,	2806250680_1/10,	BR	07/07/08 21:40,	10.0, ✓	3576.6921,	
28,	2806250683_1/5,	BR	07/07/08 22:13,	5.0, ✓	690.8375,	
29,	MCV,	200/100/200	07/07/08 22:45,	1.0,	106.6035,	101%
30,	CCB,		07/07/08 23:18,	1.0,	n.a.	
31,	2806250594,	BR	07/07/08 23:50,	1.0, ✓	18.7564,	
32,	2806250594MS,		07/08/08 00:22,	1.0, ✓	70.5720,	51.8-104%
33,	2806250594MSD,		07/08/08 00:55,	1.0, ✓	68.9427,	50.2-100%
34,	2806250692,	BR	07/08/08 01:27,	1.0, ✓	161.4198,	
35,	2806250694,	BR	07/08/08 02:00,	1.0, ✓	249.6026,	
36,	2806250702_1/2,	BR	07/08/08 02:32,	2.0, ✓	477.9041,	
37,	2806250704,	BR	07/08/08 03:04,	1.0, ✓	195.0613,	
38,	2806250706,	BR	07/08/08 03:37,	1.0, ✓	211.3901,	
39,	2806250710,	BR	07/08/08 04:09,	1.0, ✓	243.7479,	
40,	2806260399_1/100,	BR	07/08/08 04:42,	100.0, ✓	15679.7394,	
41,	2806260401,	BR	07/08/08 05:14,	1.0, ✓	171.3483,	
42,	2806260403,	BR	07/08/08 05:46,	1.0, ✓	142.6251,	
43,	HCV,	800/400/800	07/08/08 06:19,	1.0,	412.0323,	103%
44,	CCB,		07/08/08 06:51,	1.0,	n.a.	
45,	MCV,		07/08/08 07:24,	1.0,	103.3462,	
46,	CCB,		07/08/08 07:56,	1.0,	n.a.	
47,	MRLCHK,		07/08/08 08:28,	1.0,	4.8493,	
48,	MBLK,		07/08/08 09:01,	1.0,	n.a.	

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb Br CD_1	
49,	LCS1,		07/08/08 09:33,	1.0,	101.7136,	
50,	LCS2,		07/08/08 10:06,	1.0,	100.3834,	
51,	2806200081,	CLO3	07/08/08 10:38,	1.0,	62.2876,	
52,	2806200081MS,		07/08/08 11:10,	1.0,	107.4716,	
53,	2806200081MSD,		07/08/08 11:43,	1.0,	111.4570,	
54,	2806200082,	CLO3	07/08/08 12:15,	1.0,	64.6492,	
55,	2806200083,	CLO3	07/08/08 12:48,	1.0,	63.3453,	
56,	2806200084-DNR,	CLO3	07/08/08 13:20,	1.0,	n.a.	
57,	2806200085,	CLO3	07/08/08 14:56,	1.0,	266.9153,	
58,	2806200086,	CLO3	07/08/08 15:28,	1.0,	390.3072,	
59,	2806200087,	CLO3	07/08/08 16:01,	1.0,	653.0707,	
60,	2806240472_1/2,	CLO3	07/08/08 16:33,	2.0,	80.7149,	
61,	2806240473,	CLO3	07/08/08 17:05,	1.0,	158.9048,	
62,	2806240474_1/2,	CLO3	07/08/08 17:38,	2.0,	143.3683,	
63,	MCV,	200/100/200	07/08/08 18:10,	1.0,	106.4219,	
64,	CCB,		07/08/08 18:42,	1.0,	n.a.	
65,	2806240475_1/2,	CLO3	07/08/08 19:15,	2.0,	81.0880,	
66,	2806240538_1/5,	CLO3	07/08/08 19:47,	5.0,	1074.5130,	
67,	2806240540_1/5000,	CLO3	07/08/08 20:20,	5000.0,	n.a.	
68,	2806260285,	CLO3	07/08/08 20:52,	1.0,	101.6033,	
69,	2806260285MS,		07/08/08 21:24,	1.0,	115.8710,	
70,	2806260285MSD,		07/08/08 21:57,	1.0,	116.3292,	
71,	2806260294,	CLO3	07/08/08 22:29,	1.0,	59.9905,	
72,	2806260295,	CLO3	07/08/08 23:02,	1.0,	60.5939,	
73,	2806260296,	CLO3	07/08/08 23:34,	1.0,	63.6903,	
74,	2806260297,	CLO3	07/09/08 00:06,	1.0,	70.5797,	
75,	2806260298,	CLO3	07/09/08 00:39,	1.0,	21.0147,	
76,	2806260299,	CLO3	07/09/08 01:11,	1.0,	26.2434,	
77,	HCV,		07/09/08 01:44,	1.0,	402.9407,	
78,	CCB,		07/09/08 02:16,	1.0,	n.a.	

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb ClO2 CD_1	
1,	WASH,		07/05/08 12:05,	1.0,	n.a.	
2,	autocal1,		07/05/08 12:37,	1.0,	n.a.	
3,	autocal2,	S1-10/5/10	07/05/08 13:09,	1.0,	9.6646,	
4,	autocal3,	S2-20/10/20	07/05/08 13:42,	1.0,	20.4070,	
5,	autocal4,	S3-100/50/100	07/05/08 14:14,	1.0,	96.5813,	
6,	autocal5,	S4-200/100/200	07/05/08 14:47,	1.0,	199.8512,	
7,	autocal6,	S5-400/200/400	07/05/08 15:19,	1.0,	397.5147,	
8,	autocal7,	S6-800/400/800	07/05/08 15:51,	1.0,	801.7012,	
9,	WASH,	S6-800/400/800	07/07/08 11:13,	1.0,	n.a.	
10,	MCV,	200/100/200	07/07/08 11:46,	1.0,	198.6501,	
11,	CCB,		07/07/08 12:18,	1.0,	n.a.	
12,	MRLCHK,	S1-10/5/10	07/07/08 12:50,	1.0,	13.3451,	
13,	MBLK,		07/07/08 13:23,	1.0,	n.a.	
14,	LCS1,	RAJA08061-9	07/07/08 13:55,	1.0,	198.9921,	
15,	LCS2,	200/100/200	07/07/08 14:28,	1.0,	201.3401,	
16,	2806240207_1/500,	BR	07/07/08 15:00,	500.0,	n.a.	
17,	2807020421_1/2,	BR	07/07/08 15:32,	2.0,	n.a.	
18,	2806260152_1/2,	BR	07/07/08 16:05,	2.0,	n.a.	
19,	2806240551,	BR	07/07/08 16:37,	1.0,	5.2849,	
20,	2806250382,	BR	07/07/08 17:10,	1.0,	8.6258,	
21,	2806250382MS,		07/07/08 17:42,	1.0,	107.9622,	
22,	2806250382MSD,		07/07/08 18:14,	1.0,	95.7954,	
23,	2806250384,	BR	07/07/08 18:47,	1.0,	9.9935,	
24,	MRLCHK,	RERUN	07/07/08 20:03,	1.0,	10.7512,	
25,	2806250677,	BR	07/07/08 20:36,	1.0,	n.a.	
26,	2806250678_1/10,	BR	07/07/08 21:08,	10.0,	n.a.	
27,	2806250680_1/10,	BR	07/07/08 21:40,	10.0,	n.a.	
28,	2806250683_1/5,	BR	07/07/08 22:13,	5.0,	n.a.	
29,	MCV,	200/100/200	07/07/08 22:45,	1.0,	198.7886,	
30,	CCB,		07/07/08 23:18,	1.0,	n.a.	
31,	2806250594,	BR	07/07/08 23:50,	1.0,	n.a.	
32,	2806250594MS,		07/08/08 00:22,	1.0,	99.0263,	
33,	2806250594MSD,		07/08/08 00:55,	1.0,	103.3746,	
34,	2806250692,	BR	07/08/08 01:27,	1.0,	n.a.	
35,	2806250694,	BR	07/08/08 02:00,	1.0,	n.a.	
36,	2806250702_1/2,	BR	07/08/08 02:32,	2.0,	n.a.	
37,	2806250704,	BR	07/08/08 03:04,	1.0,	n.a.	
38,	2806250706,	BR	07/08/08 03:37,	1.0,	n.a.	
39,	2806250710,	BR	07/08/08 04:09,	1.0,	n.a.	
40,	2806260399_1/100,	BR	07/08/08 04:42,	100.0,	n.a.	
41,	2806260401,	BR	07/08/08 05:14,	1.0,	n.a.	
42,	2806260403,	BR	07/08/08 05:46,	1.0,	n.a.	
43,	HCV,	800/400/800	07/08/08 06:19,	1.0,	798.5732,	
44,	CCB,		07/08/08 06:51,	1.0,	n.a.	
45,	MCV,		07/08/08 07:24,	1.0,	197.7262,	
46,	CCB,		07/08/08 07:56,	1.0,	n.a.	
47,	MRLCHK,		07/08/08 08:28,	1.0,	9.7543,	
48,	MBLK,		07/08/08 09:01,	1.0,	n.a.	

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb ClO2 CD_1	
49,	LCS1,		07/08/08 09:33,	1.0,	202.7975,	
50,	LCS2,		07/08/08 10:06,	1.0,	200.0199,	
51,	2806200081,	CLO3	07/08/08 10:38,	1.0,	n.a.	
52,	2806200081MS,		07/08/08 11:10,	1.0,	93.1789,	
53,	2806200081MSD,		07/08/08 11:43,	1.0,	93.9768,	
54,	2806200082,	CLO3	07/08/08 12:15,	1.0,	n.a.	
55,	2806200083,	CLO3	07/08/08 12:48,	1.0,	n.a.	
56,	2806200084-DNR,	CLO3	07/08/08 13:20,	1.0,	n.a.	
57,	2806200085,	CLO3	07/08/08 14:56,	1.0,	41.8068,	
58,	2806200086,	CLO3	07/08/08 15:28,	1.0,	n.a.	
59,	2806200087,	CLO3	07/08/08 16:01,	1.0,	n.a.	
60,	2806240472_1/2,	CLO3	07/08/08 16:33,	2.0,	n.a.	
61,	2806240473,	CLO3	07/08/08 17:05,	1.0,	n.a.	
62,	2806240474_1/2,	CLO3	07/08/08 17:38,	2.0,	n.a.	
63,	MCV,	200/100/200	07/08/08 18:10,	1.0,	196.7821,	
64,	CCB,		07/08/08 18:42,	1.0,	n.a.	
65,	2806240475_1/2,	CLO3	07/08/08 19:15,	2.0,	n.a.	
66,	2806240538_1/5,	CLO3	07/08/08 19:47,	5.0,	121.2674,	
67,	2806240540_1/5000,	CLO3	07/08/08 20:20,	5000.0,	n.a.	
68,	2806260285,	CLO3	07/08/08 20:52,	1.0,	1384.6813,	
69,	2806260285MS,		07/08/08 21:24,	1.0,	1470.8115,	
70,	2806260285MSD,		07/08/08 21:57,	1.0,	1475.1149,	
71,	2806260294,	CLO3	07/08/08 22:29,	1.0,	n.a.	
72,	2806260295,	CLO3	07/08/08 23:02,	1.0,	76.5613,	
73,	2806260296,	CLO3	07/08/08 23:34,	1.0,	355.8804,	
74,	2806260297,	CLO3	07/09/08 00:06,	1.0,	921.4388,	
75,	2806260298,	CLO3	07/09/08 00:39,	1.0,	938.3915,	
76,	2806260299,	CLO3	07/09/08 01:11,	1.0,	n.a.	
77,	HCV,		07/09/08 01:44,	1.0,	806.3934,	
78,	CCB,		07/09/08 02:16,	1.0,	n.a.	

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb ClO3 CD_1	
1,	WASH,		07/05/08 12:05,	1.0,	n.a.	
2,	autocal1,		07/05/08 12:37,	1.0,	n.a.	
3,	autocal2,	S1-10/5/10	07/05/08 13:09,	1.0,	9.8438	
4,	autocal3,	S2-20/10/20	07/05/08 13:42,	1.0,	17.1394	
5,	autocal4,	S3-100/50/100	07/05/08 14:14,	1.0,	93.3637	
6,	autocal5,	S4-200/100/200	07/05/08 14:47,	1.0,	201.5642	
7,	autocal6,	S5-400/200/400	07/05/08 15:19,	1.0,	397.355	
8,	autocal7,	S6-800/400/800	07/05/08 15:51,	1.0,	801.8344	
9,	WASH,	S6-800/400/800	07/07/08 11:13,	1.0,	n.a.	
10,	MCV,	200/100/200	07/07/08 11:46,	1.0,	198.5786	
11,	CCB,		07/07/08 12:18,	1.0,	n.a.	
12,	MRLCHK,	S1-10/5/10	07/07/08 12:50,	1.0,	3.9957	
13,	MBLK,		07/07/08 13:23,	1.0,	n.a.	
14,	LCS1,	RAJA08061-9	07/07/08 13:55,	1.0,	197.1491	
15,	LCS2,	200/100/200	07/07/08 14:28,	1.0,	197.0927	
16,	2806240207_1/500,	BR	07/07/08 15:00,	500.0,	n.a.	
17,	2807020421_1/2,	BR	07/07/08 15:32,	2.0,	n.a.	
18,	2806260152_1/2,	BR	07/07/08 16:05,	2.0,	n.a.	
19,	2806240551,	BR	07/07/08 16:37,	1.0,	n.a.	
20,	2806250382,	BR	07/07/08 17:10,	1.0,	n.a.	
21,	2806250382MS,		07/07/08 17:42,	1.0,	93.9495	
22,	2806250382MSD,		07/07/08 18:14,	1.0,	107.566	
23,	2806250384,	BR	07/07/08 18:47,	1.0,	7.4984	
24,	MRLCHK,	RERUN	07/07/08 20:03,	1.0,	11.3982	
25,	2806250677,	BR	07/07/08 20:36,	1.0,	n.a.	
26,	2806250678_1/10,	BR	07/07/08 21:08,	10.0,	n.a.	
27,	2806250680_1/10,	BR	07/07/08 21:40,	10.0,	n.a.	
28,	2806250683_1/5,	BR	07/07/08 22:13,	5.0,	n.a.	
29,	MCV,	200/100/200	07/07/08 22:45,	1.0,	216.0144	
30,	CCB,		07/07/08 23:18,	1.0,	n.a.	
31,	2806250594,	BR	07/07/08 23:50,	1.0,	n.a.	
32,	2806250594MS,		07/08/08 00:22,	1.0,	92.0321	
33,	2806250594MSD,		07/08/08 00:55,	1.0,	93.2072	
34,	2806250692,	BR	07/08/08 01:27,	1.0,	n.a.	
35,	2806250694,	BR	07/08/08 02:00,	1.0,	n.a.	
36,	2806250702_1/2,	BR	07/08/08 02:32,	2.0,	n.a.	
37,	2806250704,	BR	07/08/08 03:04,	1.0,	n.a.	
38,	2806250706,	BR	07/08/08 03:37,	1.0,	n.a.	
39,	2806250710,	BR	07/08/08 04:09,	1.0,	n.a.	
40,	2806260399_1/100,	BR	07/08/08 04:42,	100.0,	n.a.	
41,	2806260401,	BR	07/08/08 05:14,	1.0,	n.a.	
42,	2806260403,	BR	07/08/08 05:46,	1.0,	n.a.	
43,	HCV,	800/400/800	07/08/08 06:19,	1.0,	815.0019	
44,	CCB,		07/08/08 06:51,	1.0,	n.a.	
45,	MCV,		07/08/08 07:24,	1.0,	208.5546	104%
46,	CCB,		07/08/08 07:56,	1.0,	n.a.	
47,	MRLCHK,		07/08/08 08:28,	1.0, ✓	7.725	77.3%
48,	MBLK,		07/08/08 09:01,	1.0,	n.a.	

No.	Sample Name	Comment	Time	Dil.Fac.	Amount ppb ClO3 CD_1	
49,	LCS1,		07/08/08 09:33,	1.0, ✓	193.8163	96.9%
50,	LCS2,		07/08/08 10:06,	1.0, ✓	202.4537	101%
51,	2806200081,	CLO3	07/08/08 10:38,	1.0, ✓	n.a.	
52,	2806200081MS,		07/08/08 11:10,	1.0,	93.5566	93.6%
53,	2806200081MSD,		07/08/08 11:43,	1.0,	96.0016	96.0%
54,	2806200082,	CLO3	07/08/08 12:15,	1.0, ✓	n.a.	
55,	2806200083,	CLO3	07/08/08 12:48,	1.0, ✓	n.a.	
56,	2806200084-DNR,	CLO3	07/08/08 13:20,	1.0,	n.a.	
57,	2806200085,	CLO3	07/08/08 14:56,	1.0, ✓	310.5179	
58,	2806200086,	CLO3	07/08/08 15:28,	1.0, ✓	n.a.	
59,	2806200087,	CLO3	07/08/08 16:01,	1.0, ✓	~~13.002~~ n.a	re 07.10.08
60,	2806240472_1/2,	CLO3	07/08/08 16:33,	2.0, ✓	809.1921	
61,	2806240473,	CLO3	07/08/08 17:05,	1.0, ✓	773.5164	
62,	2806240474_1/2,	CLO3	07/08/08 17:38,	2.0, ✓	820.9091	
63,	MCV,	200/100/200	07/08/08 18:10,	1.0,	207.4978	104%
64,	CCB,		07/08/08 18:42,	1.0,	n.a.	
65,	2806240475_1/2,	CLO3	07/08/08 19:15,	2.0, ✓	822.6144	
66,	2806240538_1/5,	CLO3	07/08/08 19:47,	5.0, ✓	n.a.	
67,	2806240540_1/5000,	CLO3	07/08/08 20:20,	5000.0, ✓	410840.5	
68,	2806260285,	CLO3	07/08/08 20:52,	1.0, ✓	225.331	
69,	2806260285MS,		07/08/08 21:24,	1.0, ✓	326.2806	101%
70,	2806260285MSD,		07/08/08 21:57,	1.0, ✓	324.2784	98.9%
71,	2806260294,	CLO3	07/08/08 22:29,	1.0, ✓	241.7635	
72,	2806260295,	CLO3	07/08/08 23:02,	1.0, ✓	238.1818	
73,	2806260296,	CLO3	07/08/08 23:34,	1.0, ✓	242.8874	
74,	2806260297,	CLO3	07/09/08 00:06,	1.0, ✓	252.1757	
75,	2806260298,	CLO3	07/09/08 00:39,	1.0, ✓	182.6998	
76,	2806260299,	CLO3	07/09/08 01:11,	1.0, ✓	189.3863	
77,	HCV,		07/09/08 01:44,	1.0,	822.8523	103%
78,	CCB,		07/09/08 02:16,	1.0,	n.a.	

Sequence: 070708-DBP-IC12
Operator: raja

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2008\JULY
Timebase: IC12
#Samples: 78

Created: 7/7/2008 11:09:17 AM by raja
Last Update: 7/9/2008 3:47:38 PM by raja

No.	Name	Comment	Dil. Factor	Type	Sample ID	Program
1	WASH		1.0000	Unknown		IC12 test Program
2	autocal1		1.0000	Standard		IC12 test Program
3	autocal2	S1-10/5/10	1.0000	Standard	RAJA080616-2	IC12 test Program
4	autocal3	S2-20/10/20	1.0000	Standard	RAJA080616-3	IC12 test Program
5	autocal4	S3-100/50/100	1.0000	Standard	RAJA080616-4	IC12 test Program
6	autocal5	S4-200/100/200	1.0000	Standard	RAJA080616-5	IC12 test Program
7	autocal6	S5-400/200/400	1.0000	Standard	RAJA080616-6	IC12 test Program
8	autocal7	S6-800/400/800	1.0000	Standard	RAJA080616-7	IC12 test Program
9	WASH	S6-800/400/800	1.0000	Unknown	RAJA080616-7	IC12 test Program
10	MCV	200/100/200	1.0000	Unknown	200/100/200	IC12 test Program
11	CCB		1.0000	Unknown		IC12 test Program
12	MRLCHK	S1-10/5/10	1.0000	Unknown		IC12 test Program
13	MBLK		1.0000	Unknown		IC12 test Program
14	LCS1	RAJA08061-9	1.0000	Unknown		IC12 test Program
15	LCS2	200/100/200	1.0000	Unknown		IC12 test Program
16	2806240207_1/500	BR	500.0000	Unknown		IC12 test Program
17	2807020421_1/2	BR	2.0000	Unknown		IC12 test Program
18	2806260152_1/2	BR	2.0000	Unknown		IC12 test Program
19	2806240551	BR	1.0000	Unknown		IC12 test Program
20	2806250382	BR	1.0000	Unknown		IC12 test Program
21	2806250382MS		1.0000	Unknown		IC12 test Program
22	2806250382MSD		1.0000	Unknown		IC12 test Program
23	2806250384	BR	1.0000	Unknown		IC12 test Program
24	MRLCHK	RERUN	1.0000	Unknown		IC12 test Program
25	2806250677	BR	1.0000	Unknown		IC12 test Program
26	2806250678_1/10	BR	10.0000	Unknown		IC12 test Program
27	2806250680_1/10	BR	10.0000	Unknown		IC12 test Program
28	2806250683_1/5	BR	5.0000	Unknown		IC12 test Program
29	MCV	200/100/200	1.0000	Unknown		IC12 test Program
30	CCB		1.0000	Unknown		IC12 test Program
31	2806250594	BR	1.0000	Unknown		IC12 test Program
32	2806250594MS		1.0000	Unknown		IC12 test Program
33	2806250594MSD		1.0000	Unknown		IC12 test Program
34	2806250692	BR	1.0000	Unknown		IC12 test Program
35	2806250694	BR	1.0000	Unknown		IC12 test Program
36	2806250702_1/2	BR	2.0000	Unknown		IC12 test Program
37	2806250704	BR	1.0000	Unknown		IC12 test Program
38	2806250706	BR	1.0000	Unknown		IC12 test Program
39	2806250710	BR	1.0000	Unknown		IC12 test Program
40	2806260399_1/100	BR	100.0000	Unknown		IC12 test Program
41	2806260401	BR	1.0000	Unknown		IC12 test Program
42	2806260403	BR	1.0000	Unknown		IC12 test Program

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2008\JULY
Timebase: IC12
#Samples: 78

Created: 7/7/2008 11:09:17 AM by raja
Last Update: 7/9/2008 3:47:38 PM by raja

No.	Name	Method	Status	Inj. Date/Time	*Analyst
1	WASH	DBP-Method	Finished	7/5/2008 12:05:08 PM	raja
2	autocal1	DBP-Method	Finished	7/5/2008 12:37:31 PM	raja
3	autocal2	DBP-Method	Finished	7/5/2008 1:09:55 PM	raja
4	autocal3	DBP-Method	Finished	7/5/2008 1:42:19 PM	raja
5	autocal4	DBP-Method	Finished	7/5/2008 2:14:43 PM	raja
6	autocal5	DBP-Method	Finished	7/5/2008 2:47:06 PM	raja
7	autocal6	DBP-Method	Finished	7/5/2008 3:19:30 PM	raja
8	autocal7	DBP-Method	Finished	7/5/2008 3:51:54 PM	raja
9	WASH	DBP-Method	Finished	7/7/2008 11:13:39 AM	raja
10	MCV	DBP-Method	Finished	7/7/2008 11:46:03 AM	raja
11	CCB	DBP-Method	Finished	7/7/2008 12:18:27 PM	raja
12	MRLCHK	DBP-Method	Finished	7/7/2008 12:50:50 PM	raja
13	MBLK	DBP-Method	Finished	7/7/2008 1:23:14 PM	raja
14	LCS1	DBP-Method	Finished	7/7/2008 1:55:38 PM	raja
15	LCS2	DBP-Method	Finished	7/7/2008 2:28:02 PM	raja
16	2806240207_1/500	DBP-Method	Finished	7/7/2008 3:00:25 PM	raja
17	2807020421_1/2	DBP-Method	Finished	7/7/2008 3:32:49 PM	raja
18	2806260152_1/2	DBP-Method	Finished	7/7/2008 4:05:13 PM	raja
19	2806240551	DBP-Method	Finished	7/7/2008 4:37:37 PM	raja
20	2806250382	DBP-Method	Finished	7/7/2008 5:10:00 PM	raja
21	2806250382MS	DBP-Method	Finished	7/7/2008 5:42:24 PM	raja
22	2806250382MSD	DBP-Method	Finished	7/7/2008 6:14:49 PM	raja
23	2806250384	DBP-Method	Finished	7/7/2008 6:47:12 PM	raja
24	MRLCHK	DBP-Method	Finished	7/7/2008 8:03:48 PM	MRLCHK
25	2806250677	DBP-Method	Finished	7/7/2008 8:36:12 PM	raja
26	2806250678_1/10	DBP-Method	Finished	7/7/2008 9:08:36 PM	raja
27	2806250680_1/10	DBP-Method	Finished	7/7/2008 9:40:59 PM	raja
28	2806250683_1/5	DBP-Method	Finished	7/7/2008 10:13:23 PM	raja
29	MCV	DBP-Method	Finished	7/7/2008 10:45:47 PM	raja
30	CCB	DBP-Method	Finished	7/7/2008 11:18:11 PM	raja
31	2806250594	DBP-Method	Finished	7/7/2008 11:50:34 PM	raja
32	2806250594MS	DBP-Method	Finished	7/8/2008 12:22:58 AM	raja
33	2806250594MSD	DBP-Method	Finished	7/8/2008 12:55:22 AM	raja
34	2806250692	DBP-Method	Finished	7/8/2008 1:27:46 AM	raja
35	2806250694	DBP-Method	Finished	7/8/2008 2:00:10 AM	raja
36	2806250702_1/2	DBP-Method	Finished	7/8/2008 2:32:33 AM	raja
37	2806250704	DBP-Method	Finished	7/8/2008 3:04:57 AM	raja
38	2806250706	DBP-Method	Finished	7/8/2008 3:37:21 AM	raja
39	2806250710	DBP-Method	Finished	7/8/2008 4:09:45 AM	raja
40	2806260399_1/100	DBP-Method	Finished	7/8/2008 4:42:09 AM	raja
41	2806260401	DBP-Method	Finished	7/8/2008 5:14:32 AM	raja
42	2806260403	DBP-Method	Finished	7/8/2008 5:46:56 AM	raja

Sequence: 070708-DBP-IC12
Operator: raja
Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2008\JULY
Timebase: IC12
#Samples: 78

Created: 7/7/2008 11:09:17 AM by raja
Last Update: 7/9/2008 3:47:38 PM by raja

No.	Name	Comment	Dil. Factor	Type	Sample ID	Program
43	HCV	800/400/800	1.0000	Unknown		IC12 test Program
44	CCB		1.0000	Unknown		IC12 test Program
45	MCV		1.0000	Unknown		IC12 test Program
46	CCB		1.0000	Unknown		IC12 test Program
47	MRLCHK		1.0000	Unknown		IC12 test Program
48	MBLK		1.0000	Unknown		IC12 test Program
49	LCS1		1.0000	Unknown		IC12 test Program
50	LCS2		1.0000	Unknown		IC12 test Program
51	2806200081	CLO3	1.0000	Unknown		IC12 test Program
52	2806200081MS		1.0000	Unknown		IC12 test Program
53	2806200081MSD		1.0000	Unknown		IC12 test Program
54	2806200082	CLO3	1.0000	Unknown		IC12 test Program
55	2806200083	CLO3	1.0000	Unknown		IC12 test Program
56	2806200084-DNR	CLO3	1.0000	Unknown		IC12 test Program
57	2806200085	CLO3	1.0000	Unknown		IC12 test Program
58	2806200086	CLO3	1.0000	Unknown		IC12 test Program
59	2806200087	CLO3	1.0000	Unknown		IC12 test Program
60	2806240472_1/2	CLO3	2.0000	Unknown		IC12 test Program
61	2806240473	CLO3	1.0000	Unknown		IC12 test Program
62	2806240474_1/2	CLO3	2.0000	Unknown		IC12 test Program
63	MCV	200/100/200	1.0000	Unknown		IC12 test Program
64	CCB		1.0000	Unknown		IC12 test Program
65	2806240475_1/2	CLO3	2.0000	Unknown		IC12 test Program
66	2806240538_1/5	CLO3	5.0000	Unknown		IC12 test Program
67	2806240540_1/5000	CLO3	5000.0000	Unknown		IC12 test Program
68	2806260285	CLO3	1.0000	Unknown		IC12 test Program
69	2806260285MS		1.0000	Unknown		IC12 test Program
70	2806260285MSD		1.0000	Unknown		IC12 test Program
71	2806260294	CLO3	1.0000	Unknown		IC12 test Program
72	2806260295	CLO3	1.0000	Unknown		IC12 test Program
73	2806260296	CLO3	1.0000	Unknown		IC12 test Program
74	2806260297	CLO3	1.0000	Unknown		IC12 test Program
75	2806260298	CLO3	1.0000	Unknown		IC12 test Program
76	2806260299	CLO3	1.0000	Unknown		IC12 test Program
77	HCV		1.0000	Unknown		IC12 test Program
78	CCB		1.0000	Unknown		IC12 test Program

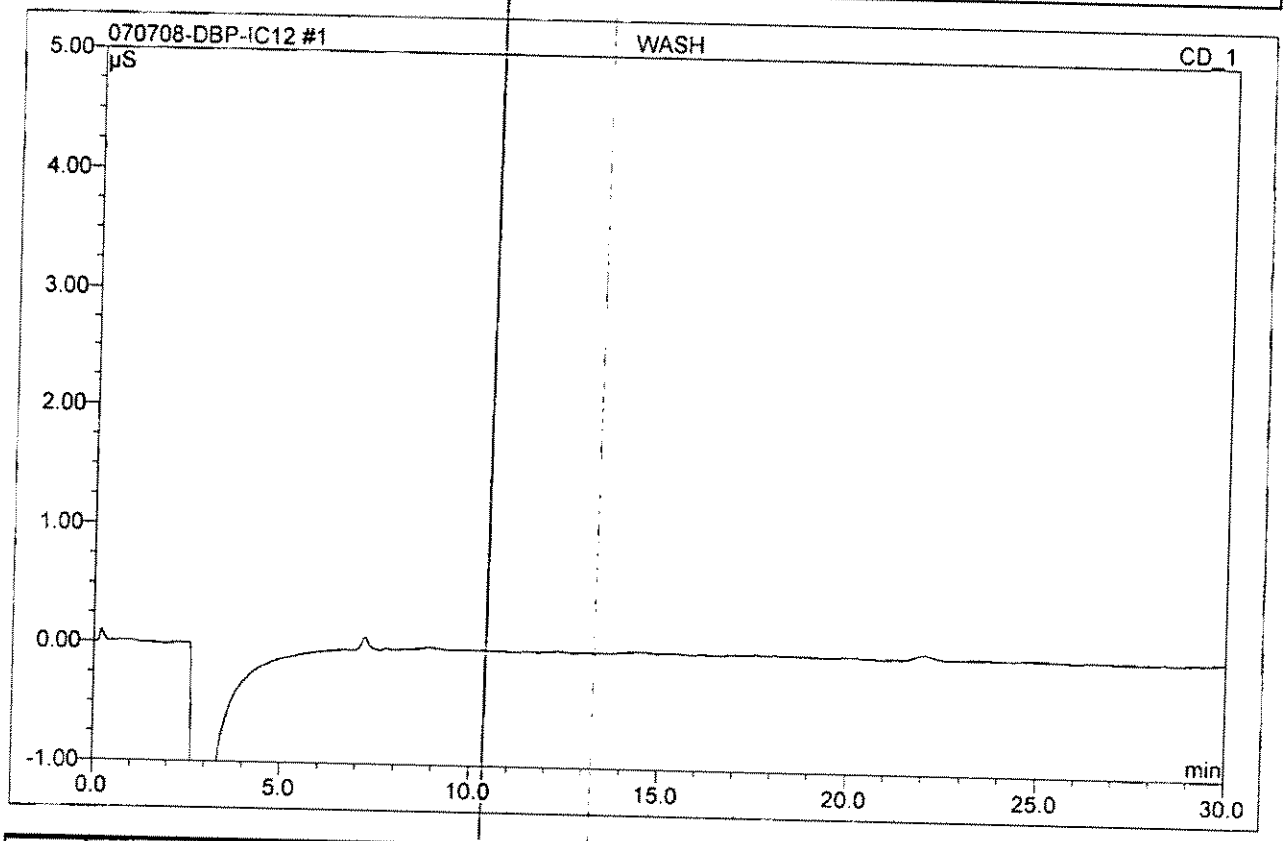
Sequence: 070708-DBP-IC12
Operator: raja
Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC12_DBP\2008\JULY
Timebase: IC12
#Samples: 78

Created: 7/7/2008 11:09:17 AM by raja
Last Update: 7/9/2008 3:47:38 PM by raja

No.	Name	Method	Status	Inj. Date/Time	*Analyst
43	HCV	DBP-Method	Finished	7/8/2008 6:19:20 AM	raja
44	CCB	DBP-Method	Finished	7/8/2008 6:51:44 AM	raja
45	MCV	DBP-Method	Finished	7/8/2008 7:24:07 AM	raja
46	CCB	DBP-Method	Finished	7/8/2008 7:56:31 AM	raja
47	MRLCHK	DBP-Method	Finished	7/8/2008 8:28:55 AM	raja
48	MBLK	DBP-Method	Finished	7/8/2008 9:01:19 AM	raja
49	LCS1	DBP-Method	Finished	7/8/2008 9:33:42 AM	raja
50	LCS2	DBP-Method	Finished	7/8/2008 10:06:06 AM	raja
51	2806200081	DBP-Method	Finished	7/8/2008 10:38:30 AM	raja
52	2806200081MS	DBP-Method	Finished	7/8/2008 11:10:54 AM	raja
53	2806200081MSD	DBP-Method	Finished	7/8/2008 11:43:18 AM	raja
54	2806200082	DBP-Method	Finished	7/8/2008 12:15:42 PM	raja
55	2806200083	DBP-Method	Finished	7/8/2008 12:48:06 PM	raja
56	2806200084-DNR	DBP-Method	Interrupted	7/8/2008 1:20:30 PM	raja
57	2806200085	DBP-Method	Finished	7/8/2008 2:56:12 PM	raja
58	2806200086	DBP-Method	Finished	7/8/2008 3:28:36 PM	raja
59	2806200087	DBP-Method	Finished	7/8/2008 4:01:00 PM	raja
60	2806240472_1/2	DBP-Method	Finished	7/8/2008 4:33:24 PM	raja
61	2806240473	DBP-Method	Finished	7/8/2008 5:05:47 PM	raja
62	2806240474_1/2	DBP-Method	Finished	7/8/2008 5:38:11 PM	raja
63	MCV	DBP-Method	Finished	7/8/2008 6:10:35 PM	raja
64	CCB	DBP-Method	Finished	7/8/2008 6:42:59 PM	raja
65	2806240475_1/2	DBP-Method	Finished	7/8/2008 7:15:23 PM	raja
66	2806240538_1/5	DBP-Method	Finished	7/8/2008 7:47:47 PM	raja
67	2806240540_1/5000	DBP-Method	Finished	7/8/2008 8:20:10 PM	raja
68	2806260285	DBP-Method	Finished	7/8/2008 8:52:34 PM	raja
69	2806260285MS	DBP-Method	Finished	7/8/2008 9:24:58 PM	raja
70	2806260285MSD	DBP-Method	Finished	7/8/2008 9:57:22 PM	raja
71	2806260294	DBP-Method	Finished	7/8/2008 10:29:46 PM	raja
72	2806260295	DBP-Method	Finished	7/8/2008 11:02:11 PM	raja
73	2806260296	DBP-Method	Finished	7/8/2008 11:34:35 PM	raja
74	2806260297	DBP-Method	Finished	7/9/2008 12:06:59 AM	raja
75	2806260298	DBP-Method	Finished	7/9/2008 12:39:23 AM	raja
76	2806260299	DBP-Method	Finished	7/9/2008 1:11:47 AM	raja
77	HCV	DBP-Method	Finished	7/9/2008 1:44:10 AM	raja
78	CCB	DBP-Method	Finished	7/9/2008 2:16:34 AM	raja

1 WASH

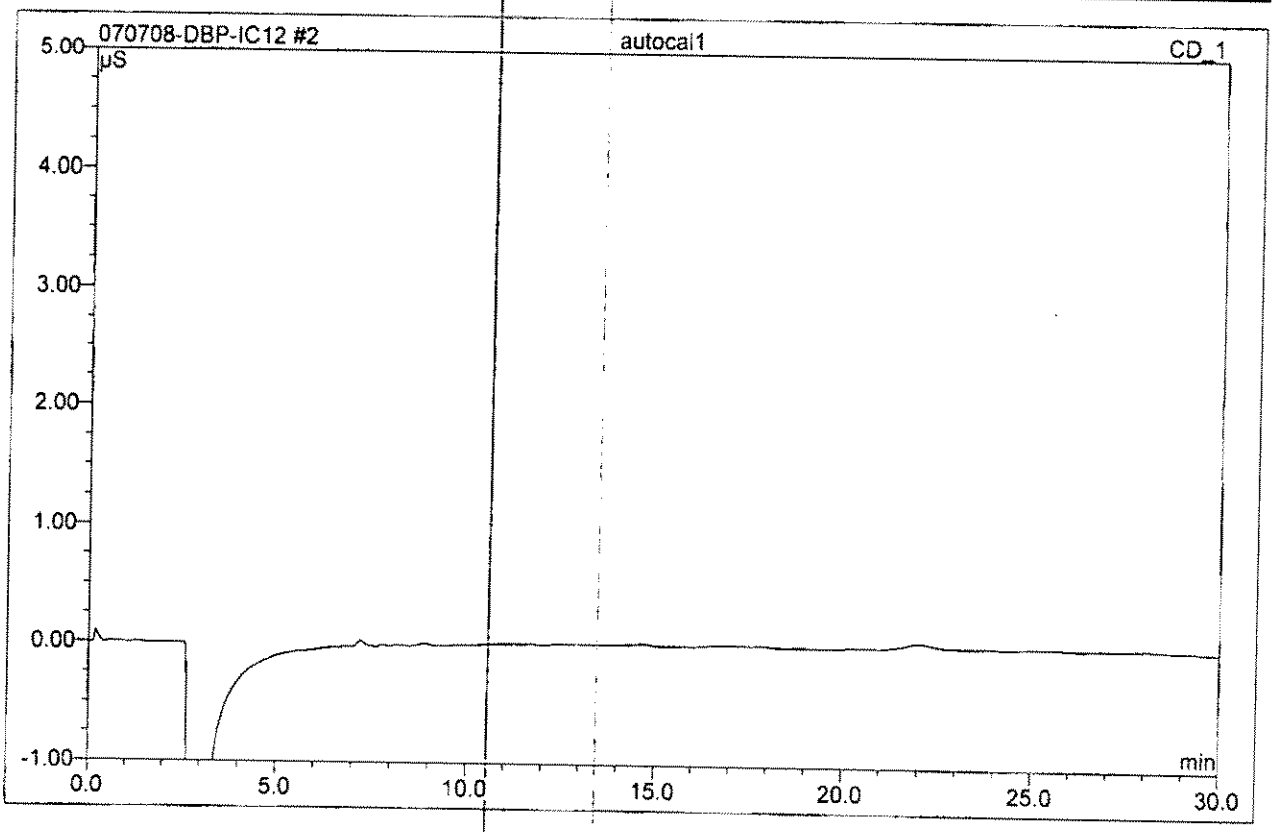
Sample Name:	**WASH**	*Injection Volume:*	**1000.0**
Vial Number:	**336**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 12:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



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

2 autocal1

Sample Name:	**autocal1**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 12:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

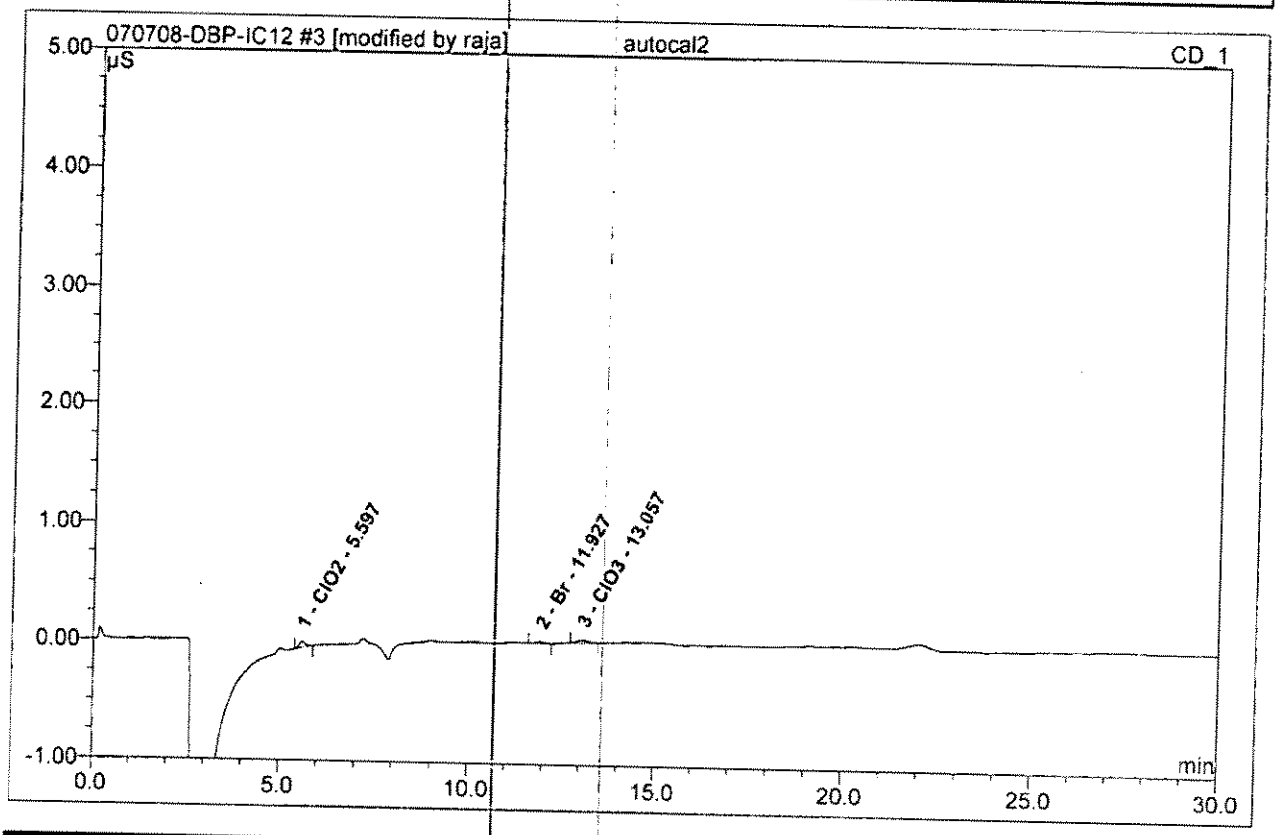


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

3 autocal2

S1-10/5/10

Sample Name:	**autocal2**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 13:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

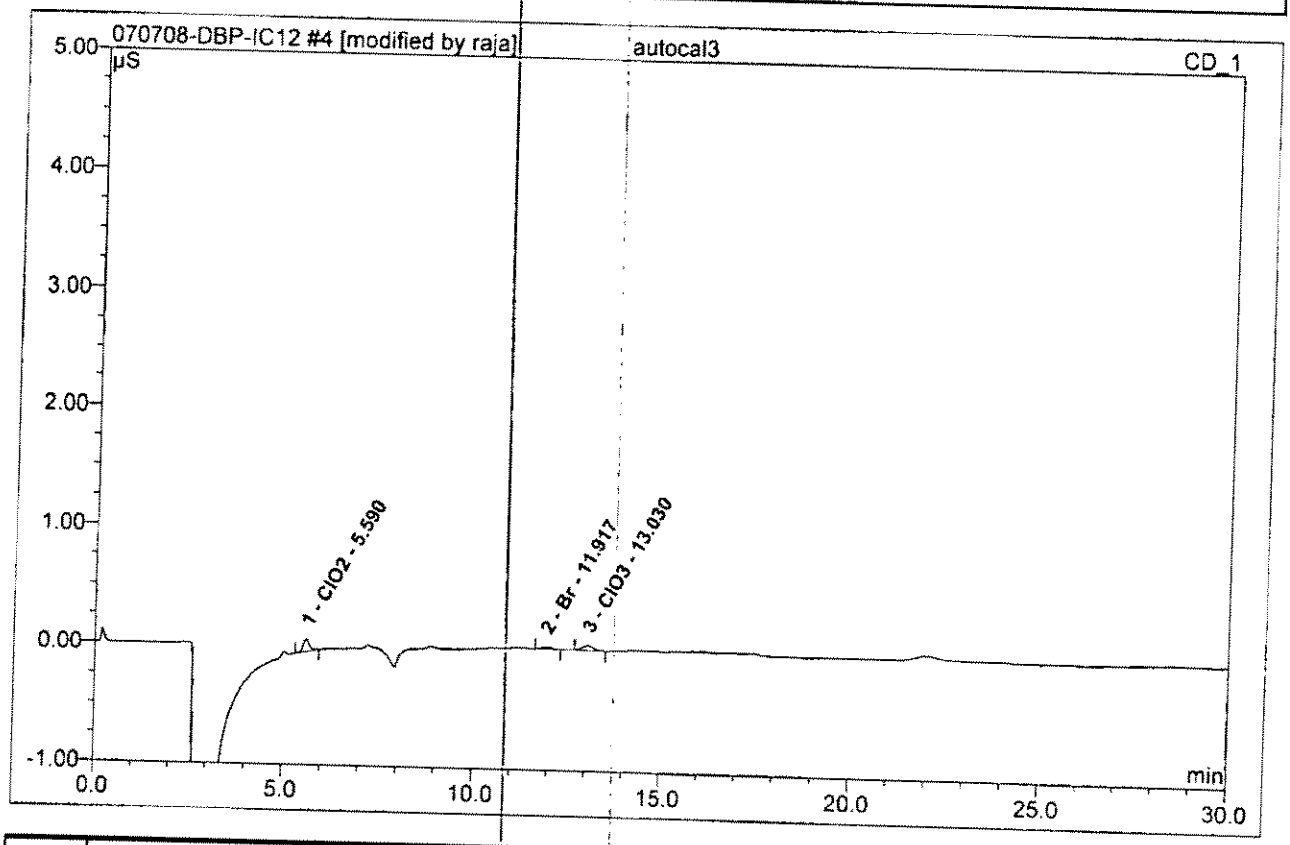


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.60	ClO2	0.053	0.009	41.94	9.665	BMB
2	11.93	Br	0.016	0.005	21.98	5.381	BMB*
3	13.06	ClO3	0.023	0.008	36.08	9.844	BMB
Total:			0.092	0.022	100.00	24.890	

4 autocal3

S2-20/10/20

Sample Name:	**autocal3**	*Injection Volume:*	**1000.0**
Vial Number:	**336**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 13:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

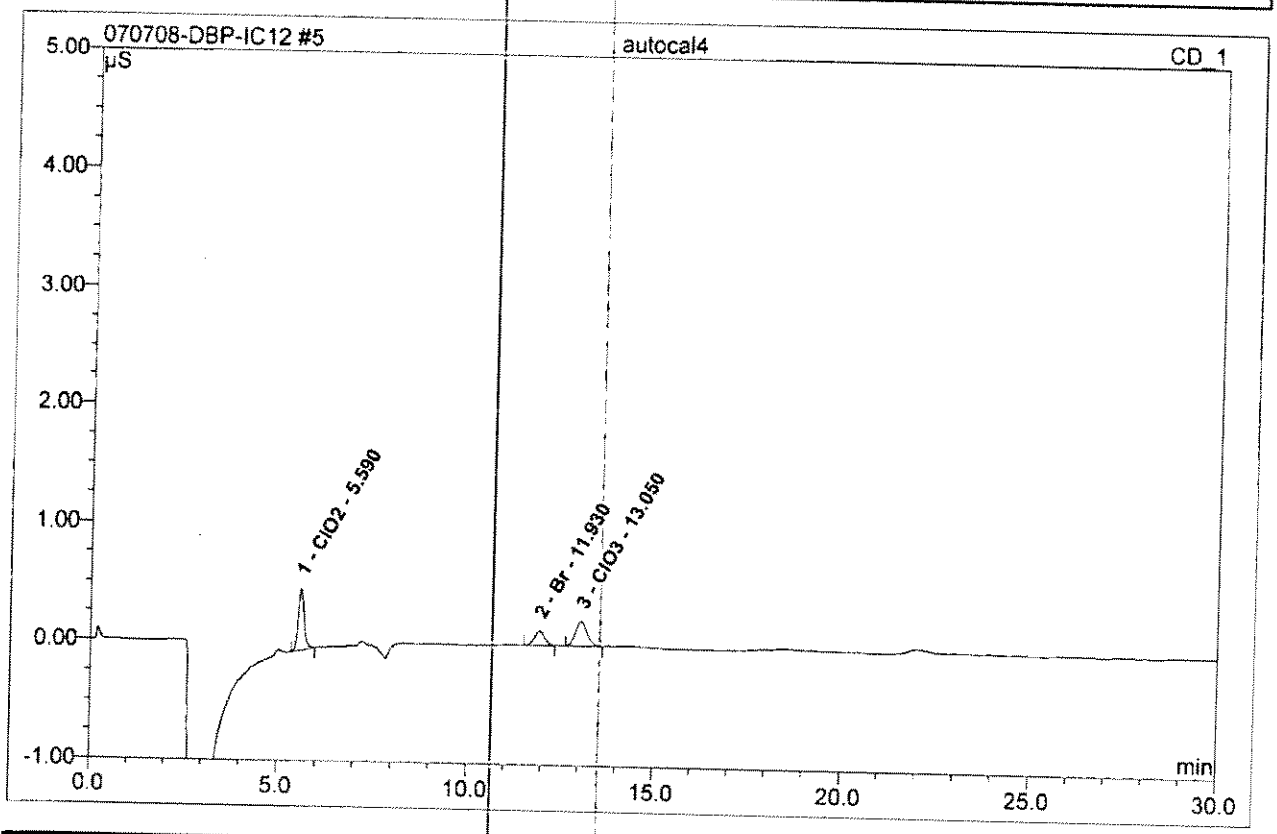


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	0.107	0.020	49.65	20.407	BMB
2	11.92	Br	0.020	0.006	15.13	6.604	BMB*
3	13.03	ClO3	0.039	0.014	35.22	17.139	BMB
Total:			0.165	0.040	100.00	44.151	

5 autocal4

S3-100/50/100

Sample Name:	**autocal4**	*Injection Volume:*	**1000.0**
Vial Number:	**337**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 14:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

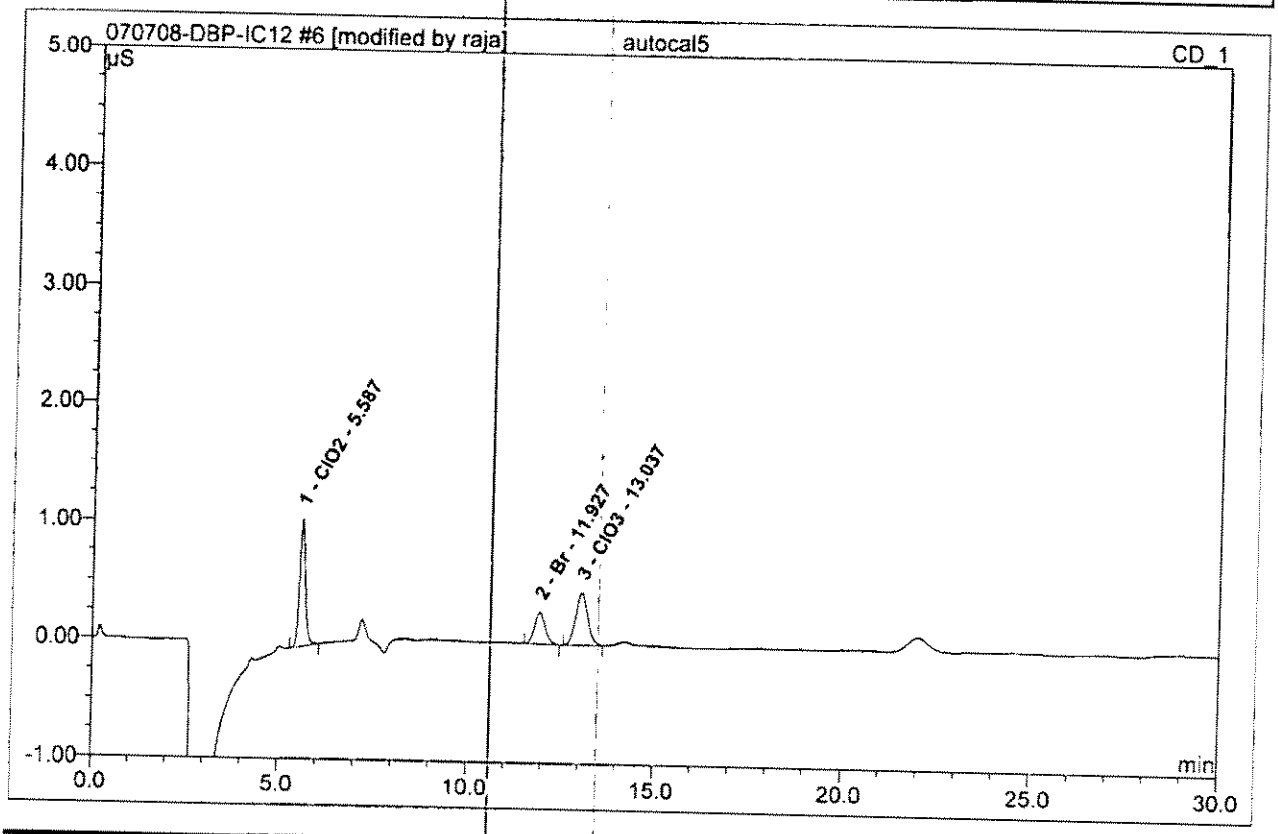


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	0.521	0.093	44.28	96.581	BMB
2	11.93	Br	0.126	0.041	19.57	45.336	BMB
3	13.05	ClO3	0.209	0.076	36.15	93.364	BMB
Total:			0.857	0.210	100.00	235.280	

6 autocal5

S4-200/100/200

Sample Name:	**autocal5**	*Injection Volume:*	**1000.0**
Vial Number:	**338**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 14:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

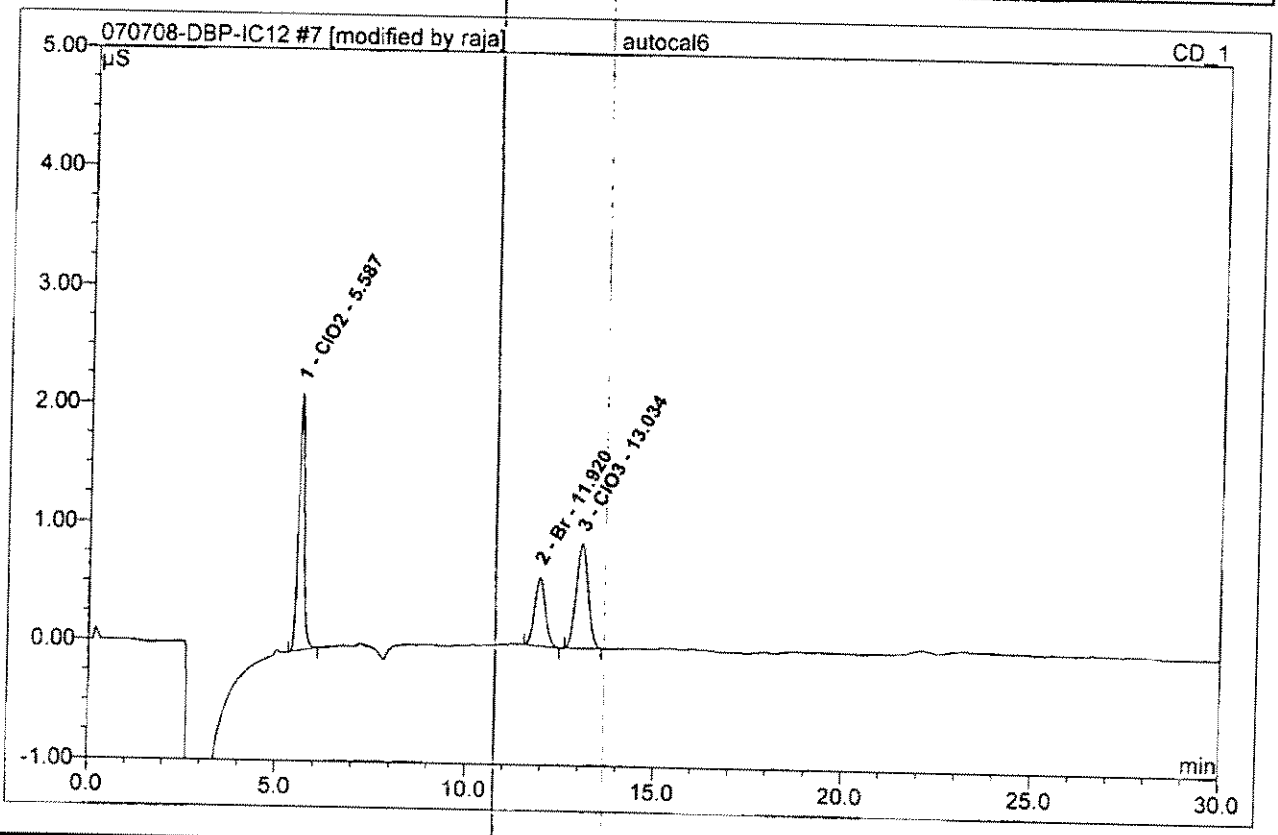


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	1.076	0.193	43.02	199.851	BMB
2	11.93	Br	0.270	0.091	20.33	100.300	BMB
3	13.04	ClO3	0.442	0.164	36.65	201.564	BMB*
Total:			1.789	0.448	100.00	501.716	

7 autocal6

S5-400/200/400

Sample Name:	**autocal6**	*Injection Volume:*	**1000.0**
Vial Number:	**338**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 15:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

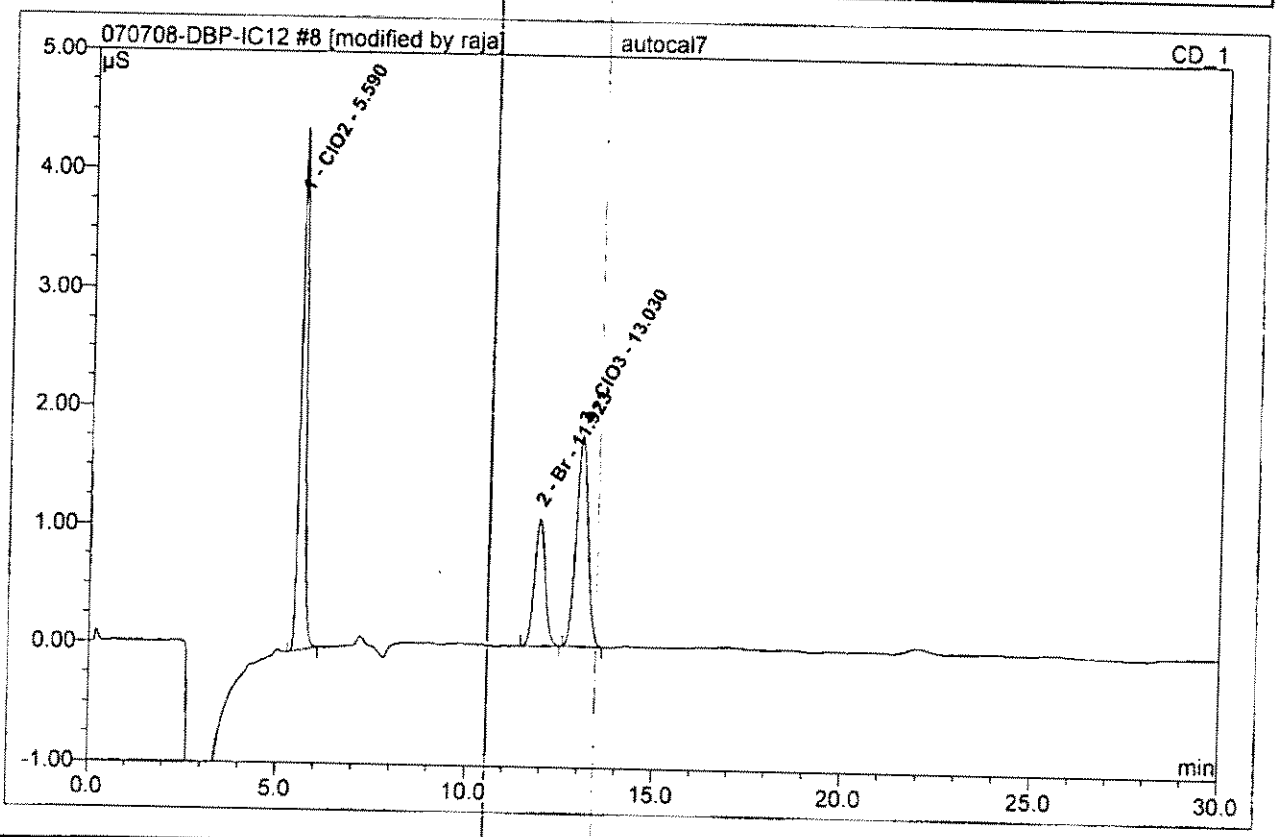


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	2.166	0.383	42.62	397.515	BMB
2	11.92	Br	0.576	0.192	21.40	212.034	BMB*
3	13.03	ClO3	0.883	0.324	35.98	397.355	BMB*
Total:			3.625	0.899	100.00	1006.904	

8 autocal7

S6-800/400/800

Sample Name:	**autocal7**	*Injection Volume:*	**1000.0**
Vial Number:	**334**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 15:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

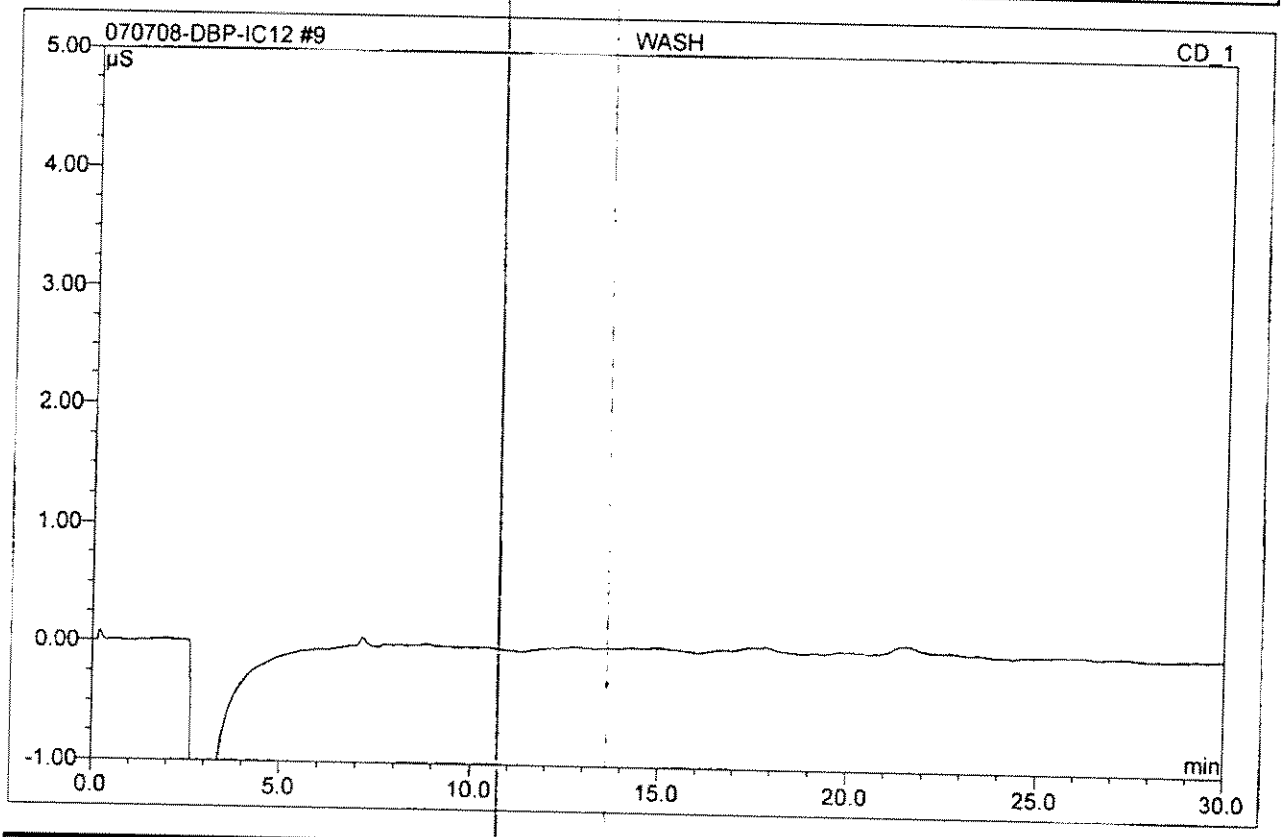


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	4.400	0.773	43.33	801.701	BMB
2	11.92	Br	1.070	0.358	20.07	394.571	BMB*
3	13.03	ClO3	1.774	0.653	36.60	801.834	BMB*
Total:			7.245	1.784	100.00	1998.107	

9 WASH

S6-800/400/800

Sample Name:	**WASH**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/7/2008 11:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

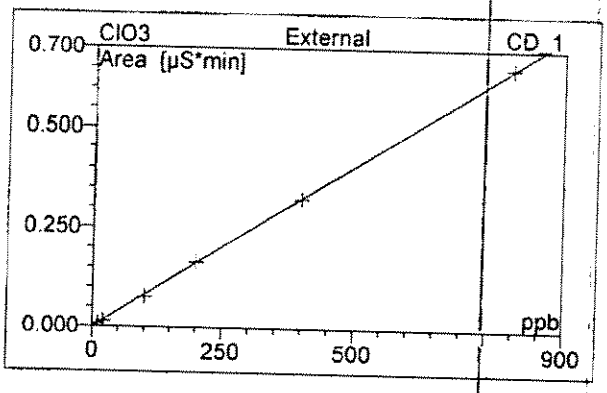


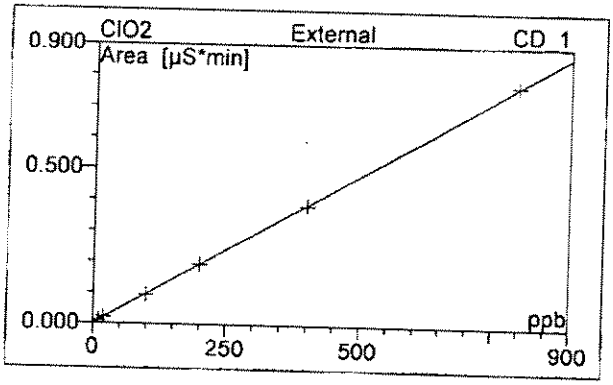
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

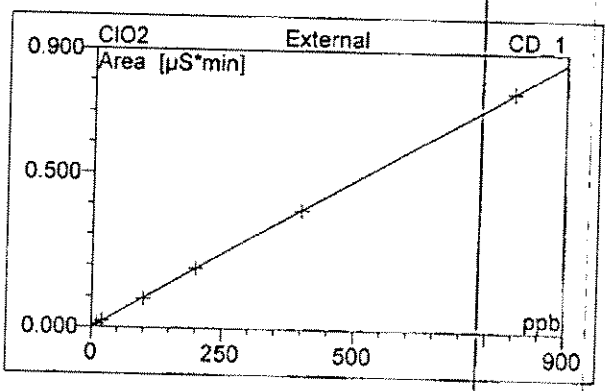
8 autocal7

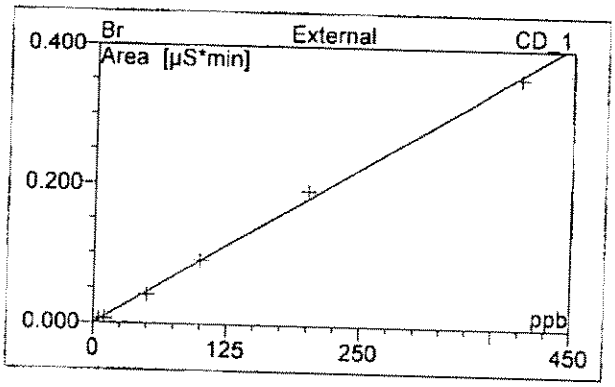
S6-800/400/800

Sample Name:	**autocal7**	*Injection Volume:*	**1000.0**
Vial Number:	**334**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/5/2008 15:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**







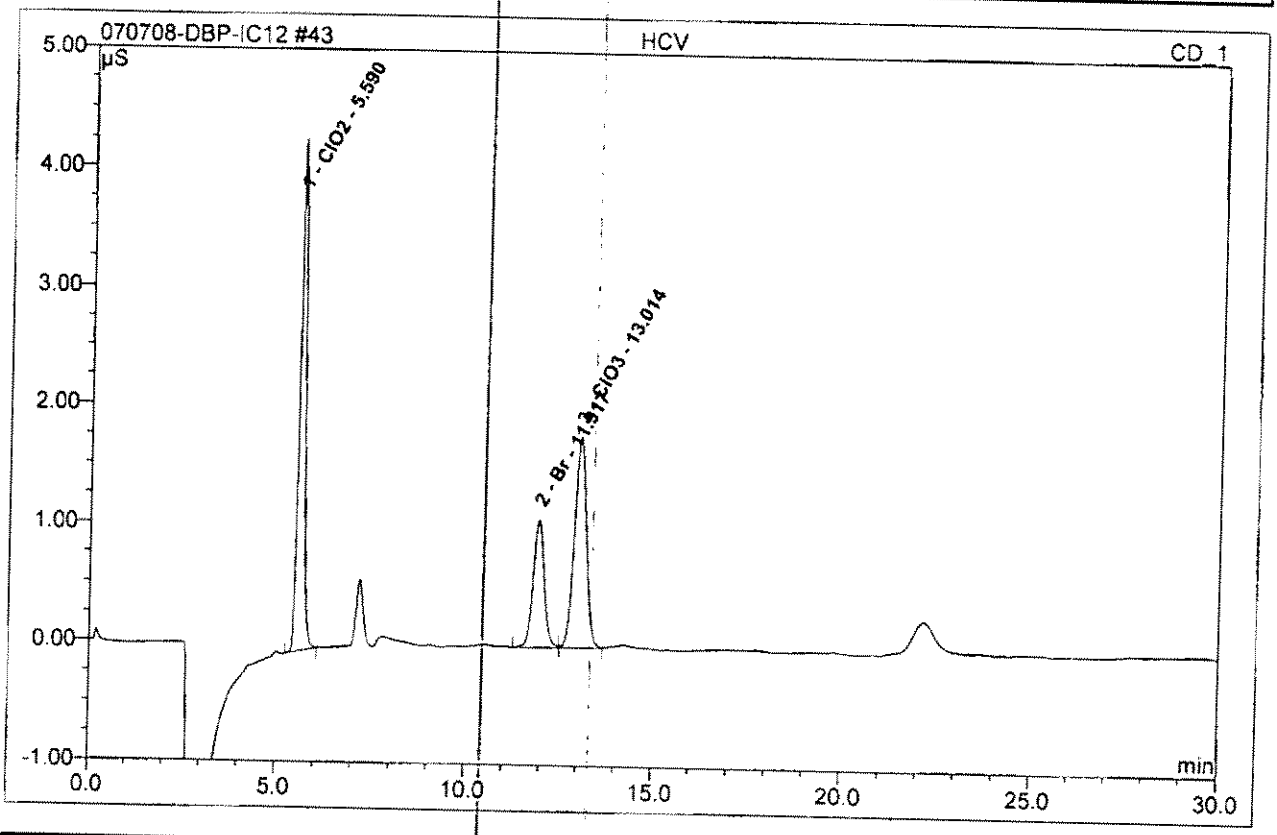


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.59	ClO2	Lin	6	99.9983	0.0000	0.0010	0.0000
2	11.92	Br	Lin	6	99.9101	0.0000	0.0009	0.0000
3	13.03	ClO3	Lin	6	99.9956	0.0000	0.0008	0.0000
Average:					99.9680	0.0000	0.0009	0.0000

43 HCV

800/400/800

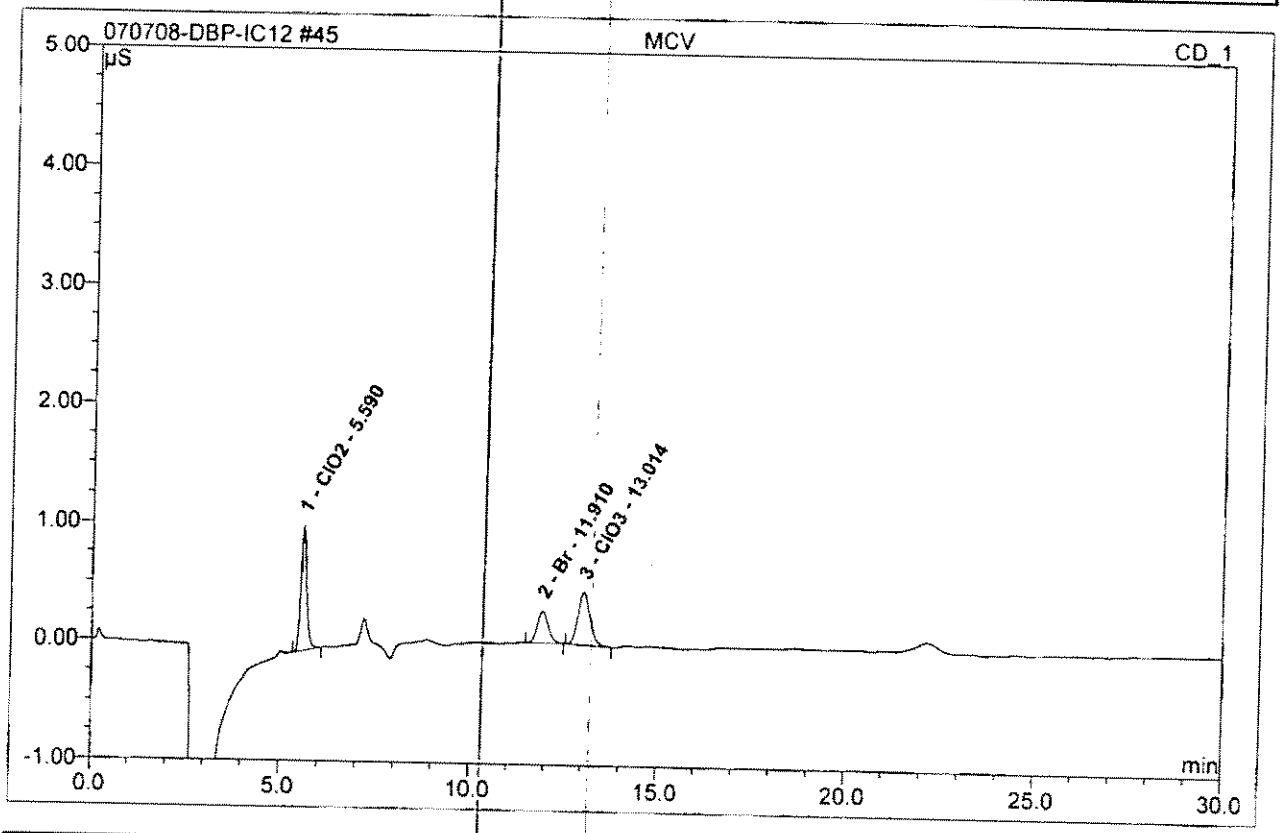
Sample Name:	**HCV**	*Injection Volume:*	**1000.0**
Vial Number:	**339**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 6:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	4.316	0.770	42.60	798.573	BMB
2	11.92	Br	1.079	0.374	20.69	412.032	BM
3	13.01	ClO3	1.780	0.664	36.72	815.002	MB
Total:			7.175	1.807	100.00	2025.607	

45 MCV

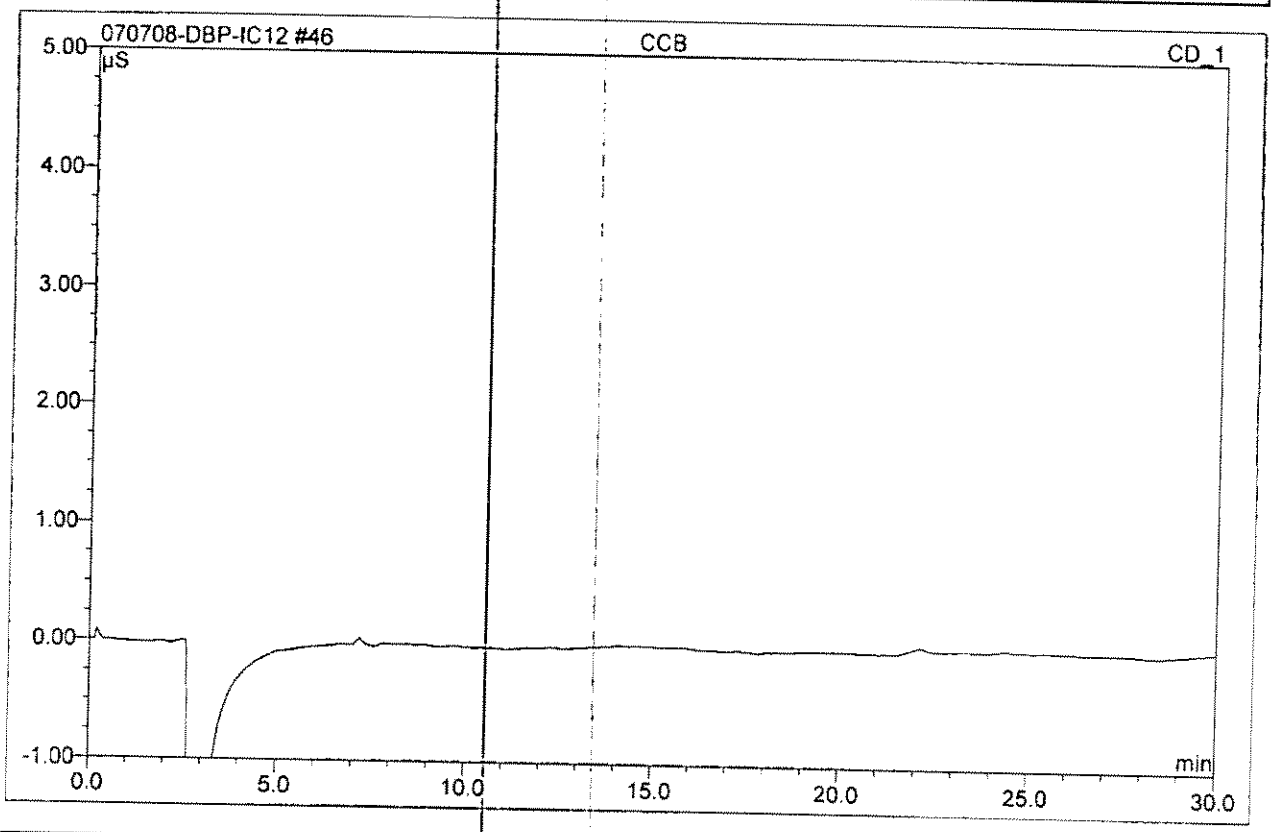
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**336**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 7:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	1.059	0.191	41.97	197.726	BMB
2	11.91	Br	0.275	0.094	20.65	103.346	BMB
3	13.01	ClO3	0.449	0.170	37.39	208.555	BMB
Total:			1.783	0.454	100.00	509.627	

46 CCB

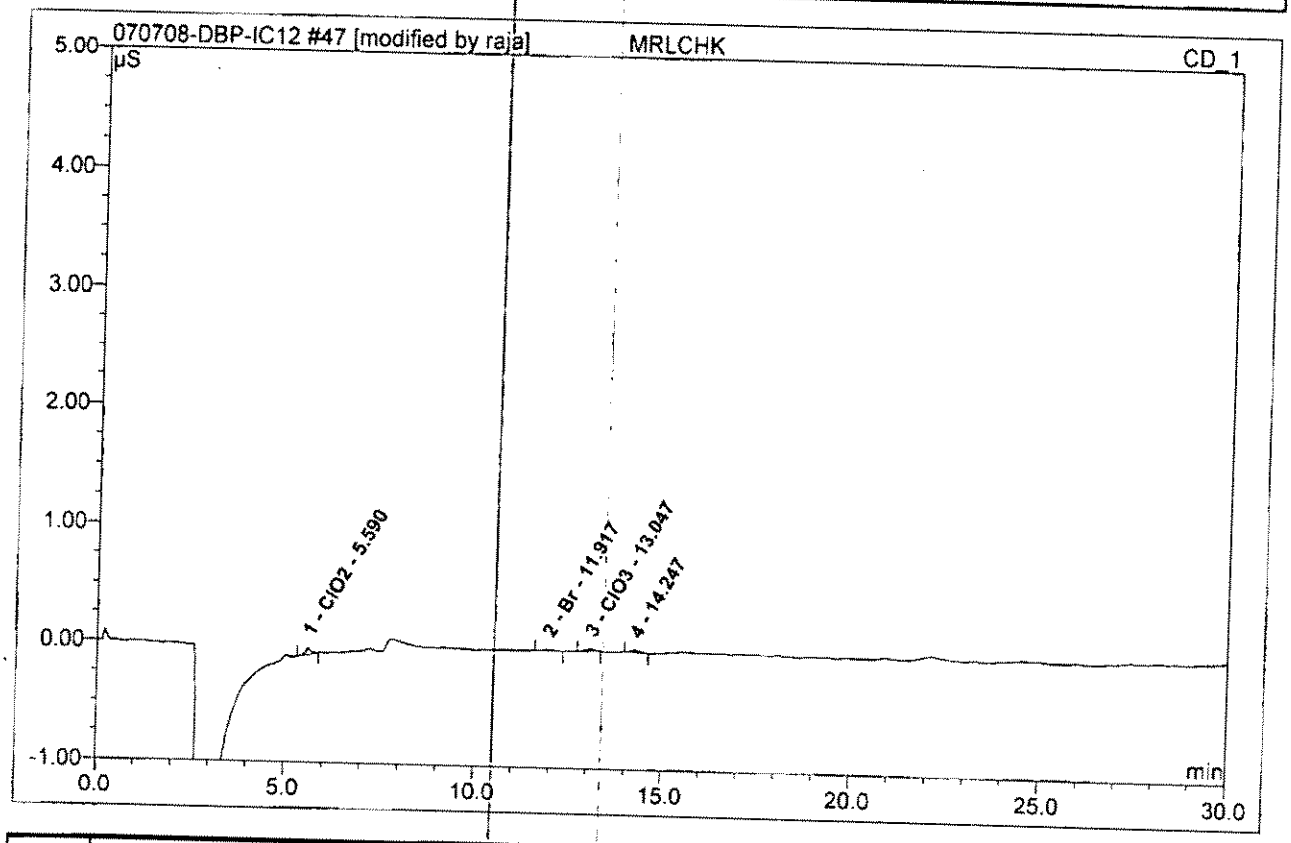
Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**337**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 7:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



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

47 MRLCHK

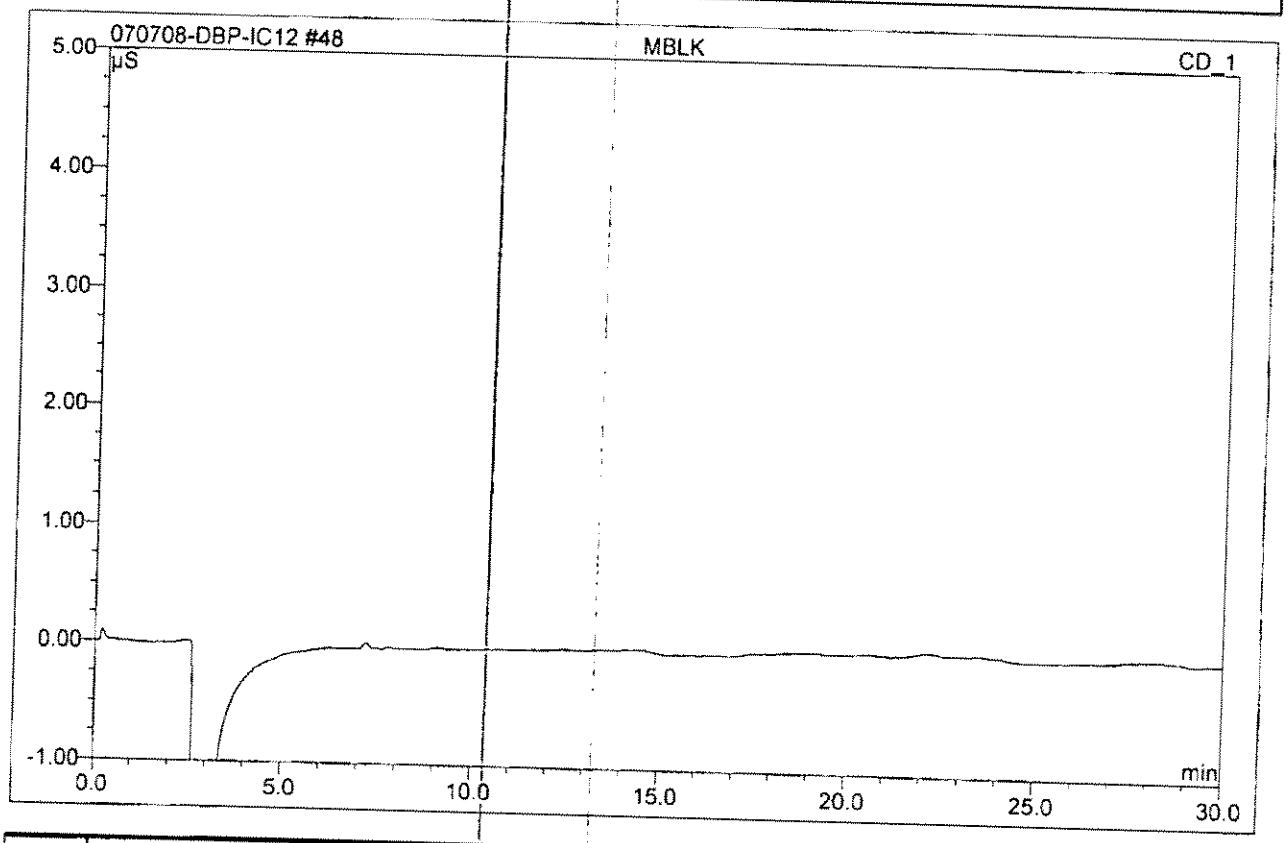
Sample Name:	**MRLCHK**	*Injection Volume:*	**1000.0**
Vial Number:	**338**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 8:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	0.051	0.009	35.85	9.754	BMB
2	11.92	Br	0.013	0.004	16.78	4.849	BMB*
3	13.05	ClO3	0.019	0.006	23.98	7.725	BMB
4	14.25	n.a.	0.019	0.006	23.39	n.a.	BMB
Total:			0.102	0.026	100.00	22.329	

48 MBLK

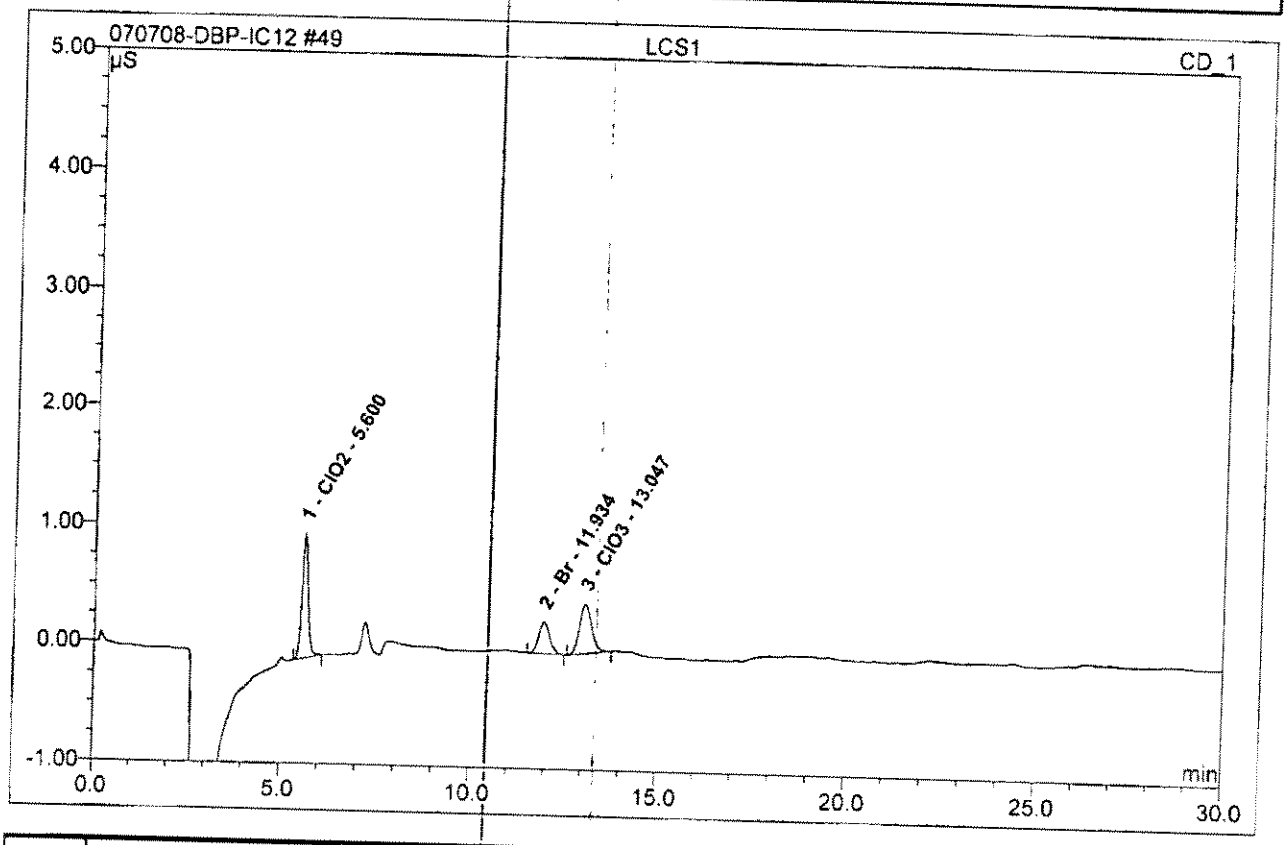
Sample Name:	**MBLK**	*Injection Volume:*	**1000.0**
Vial Number:	**339**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 9:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



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

49 LCS1

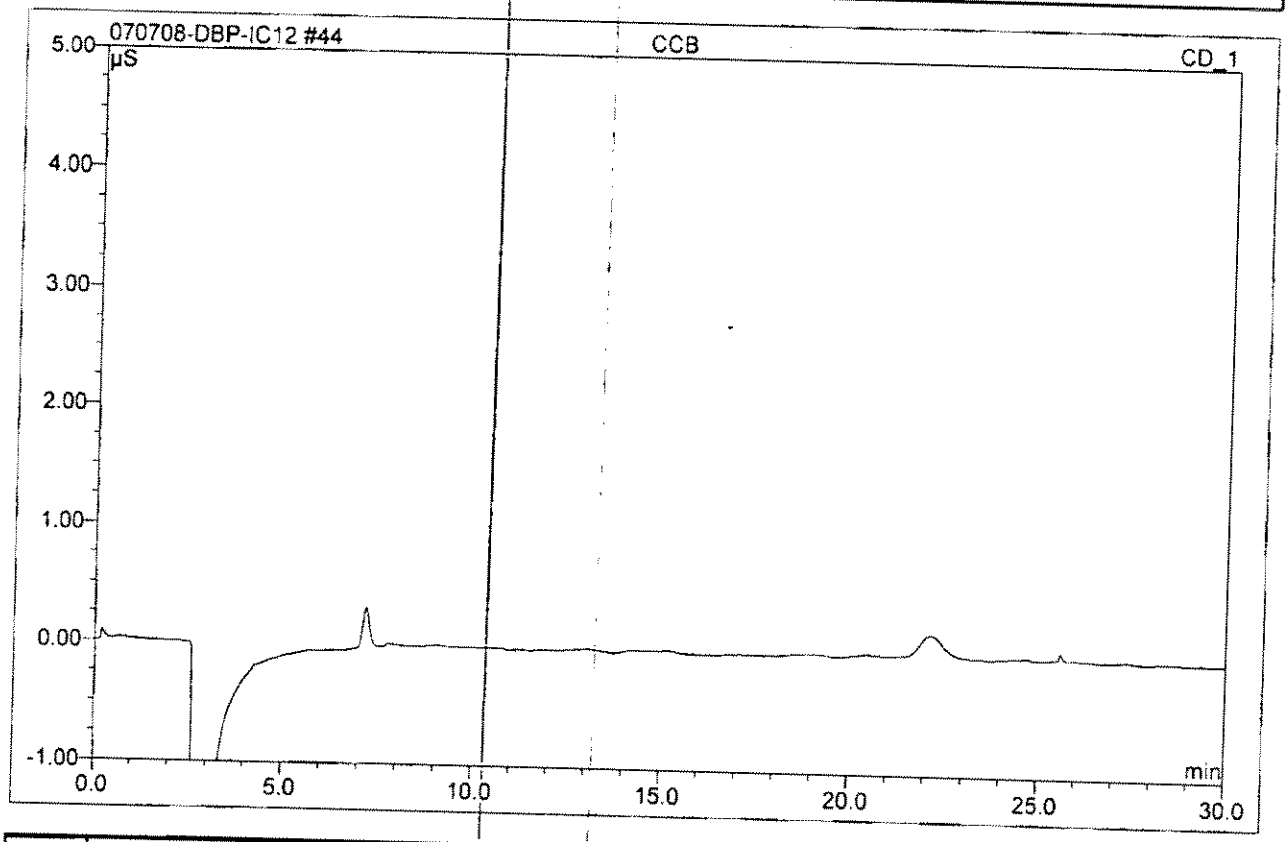
Sample Name:	**LCS1**	*Injection Volume:*	**1000.0**
Vial Number:	**340**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 9:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.60	ClO2	1.050	0.196	43.87	202.798	BMB
2	11.93	Br	0.272	0.092	20.71	101.714	BMB
3	13.05	ClO3	0.421	0.158	35.41	193.816	BMB
Total:			1.743	0.446	100.00	498.327	

44 CCB

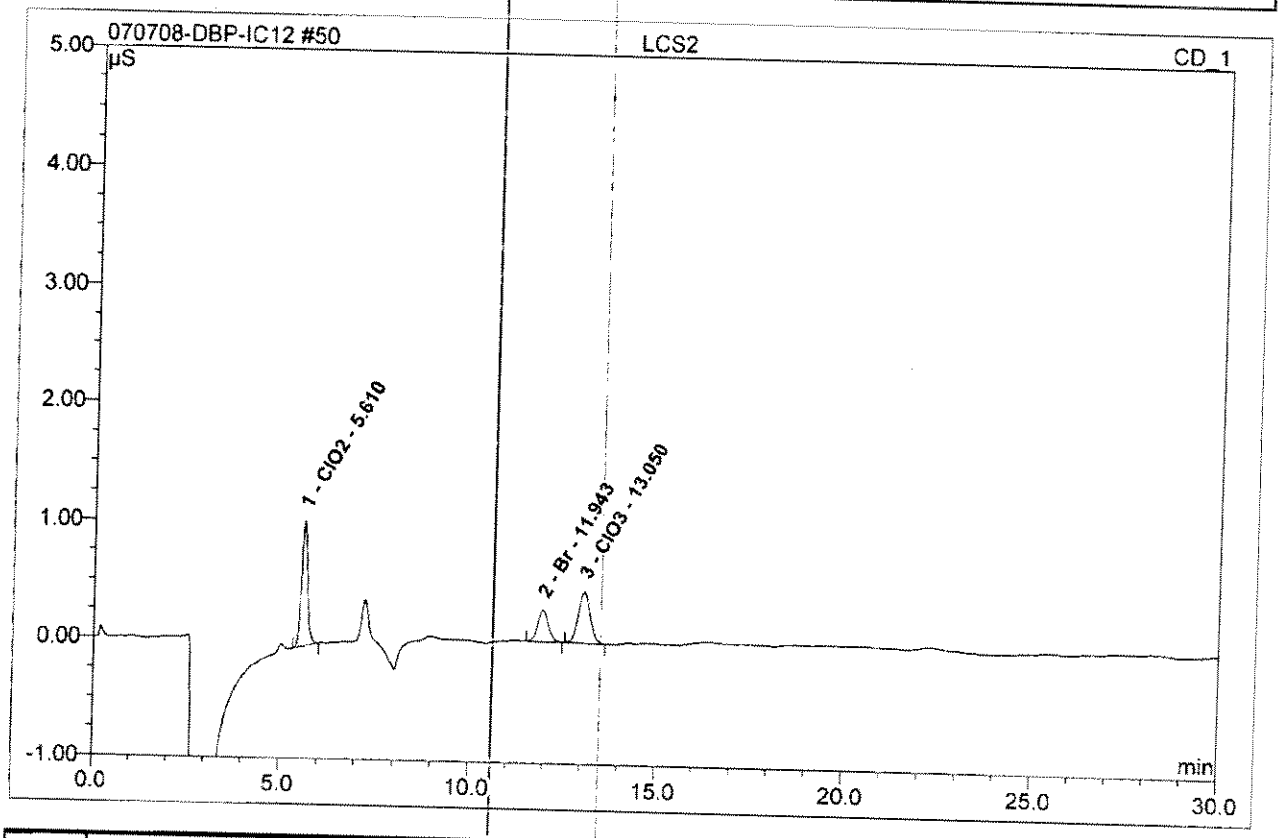
Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 6:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



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

50 LCS2

Sample Name:	**LCS2**	*Injection Volume:*	**1000.0**
Vial Number:	**341**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 10:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

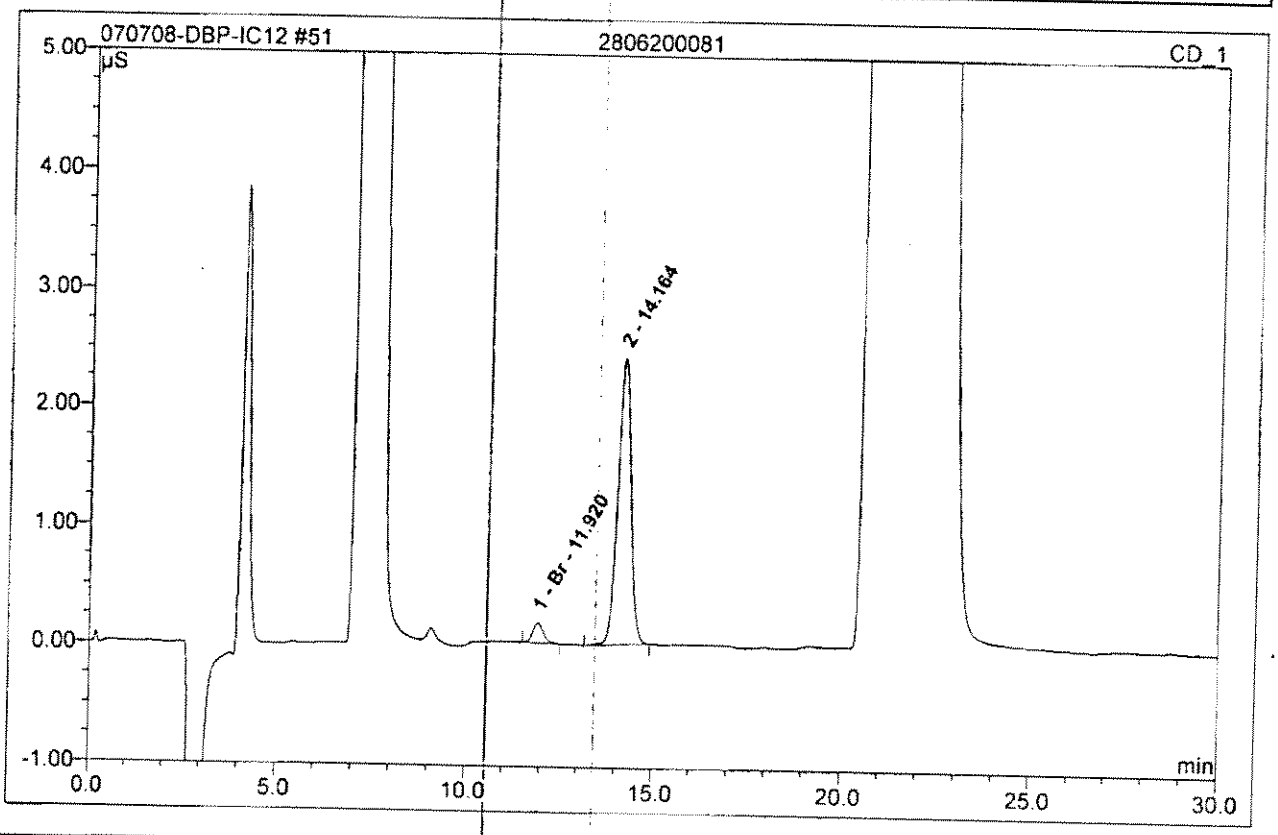


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.61	ClO2	1.062	0.193	42.97	200.020	BMB
2	11.94	Br	0.270	0.091	20.30	100.383	BMB
3	13.05	ClO3	0.440	0.165	36.73	202.454	BMB
Total:			1.772	0.449	100.00	502.857	

51 2806200081

CLO3

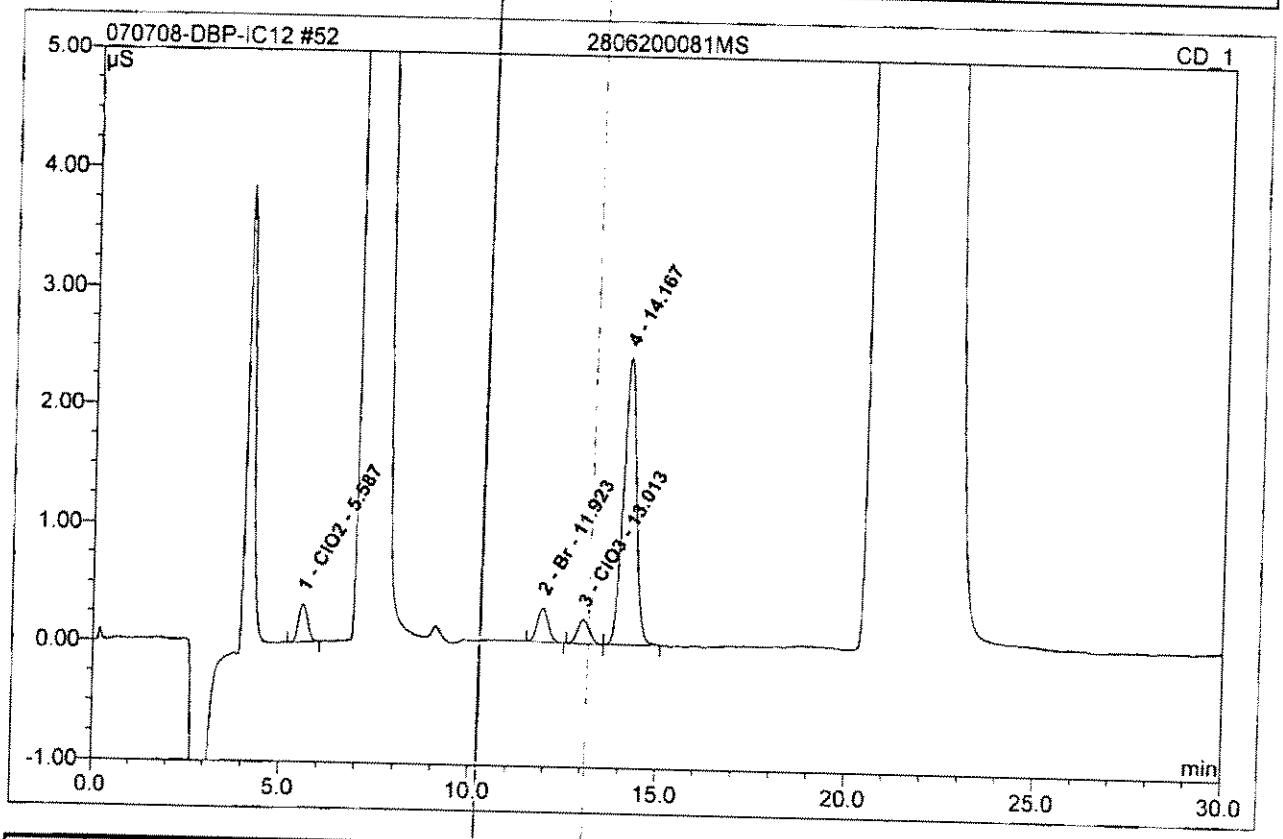
Sample Name:	**2806200081**	*Injection Volume:*	**1000.0**
Vial Number:	**342**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 10:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	11.92	Br	0.167	0.057	5.46	62.288	BMB
2	14.16	n.a.	2.414	0.980	94.54	n.a.	BMB
Total:			2.581	1.036	100.00	62.288	

52 2806200081MS

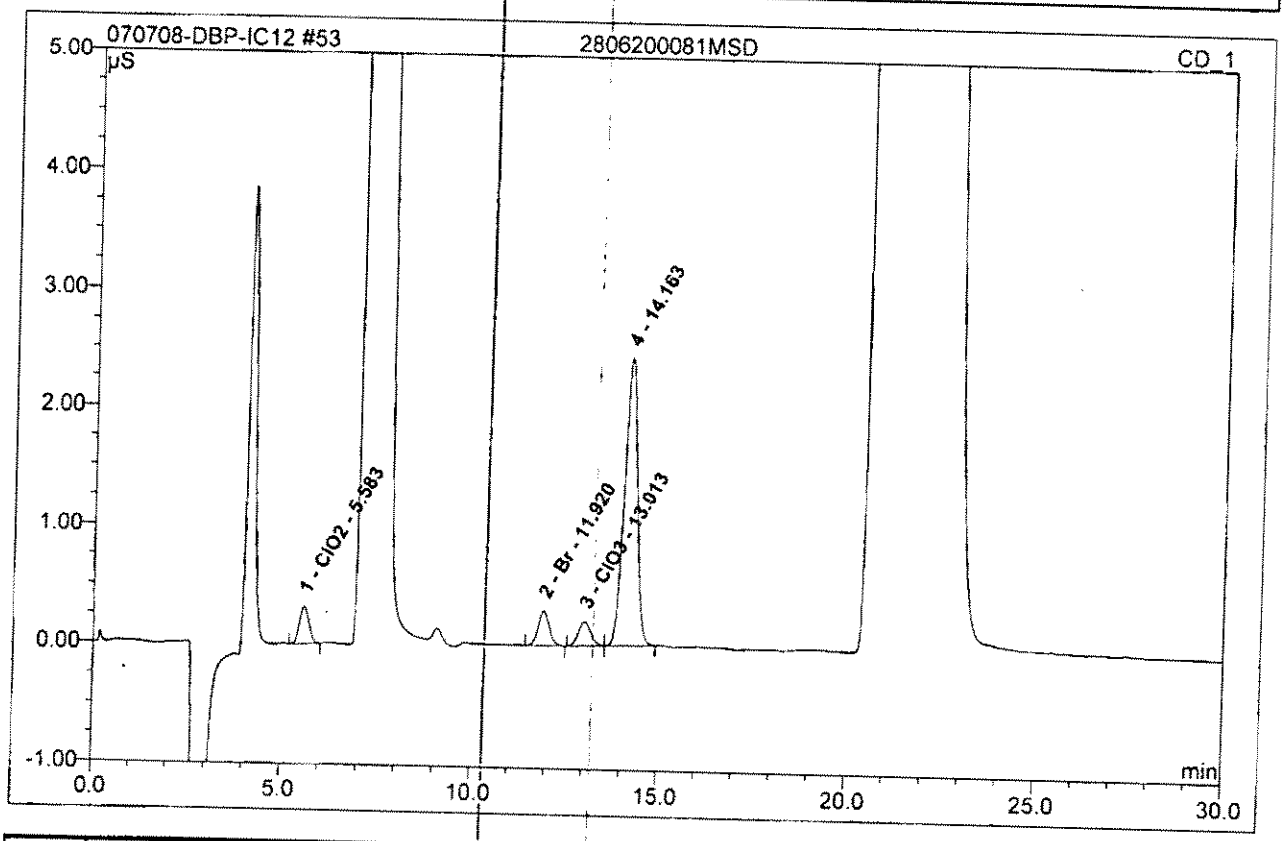
Sample Name:	**2806200081MS**	*Injection Volume:*	**1000.0**
Vial Number:	**343**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 11:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.59	ClO2	0.319	0.090	7.23	93.179	BMB
2	11.92	Br	0.288	0.098	7.85	107.472	BMB
3	13.01	ClO3	0.204	0.076	6.13	93.557	BMB
4	14.17	n.a.	2.425	0.978	78.78	n.a.	BMB
Total:			3.235	1.242	100.00	294.207	

53 2806200081MSD

Sample Name:	**2806200081MSD**	*Injection Volume:*	**1000.0**
Vial Number:	**344**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 11:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

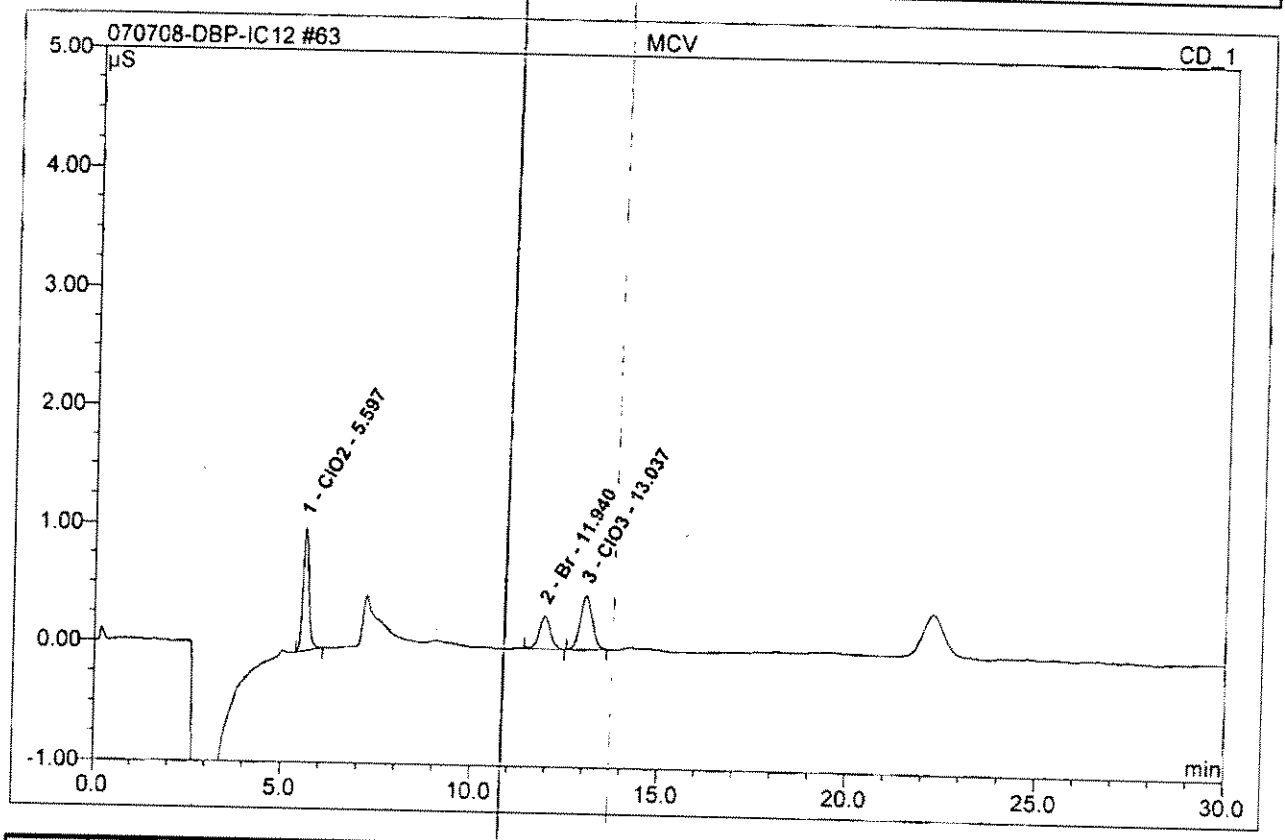


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.58	ClO2	0.315	0.091	7.31	93.977	BMB
2	11.92	Br	0.294	0.101	8.16	111.457	BMB
3	13.01	ClO3	0.207	0.078	6.30	96.002	BM
4	14.16	n.a.	2.430	0.970	78.23	n.a.	MB
Total:			3.246	1.240	100.00	301.435	

63 MCV

200/100/200

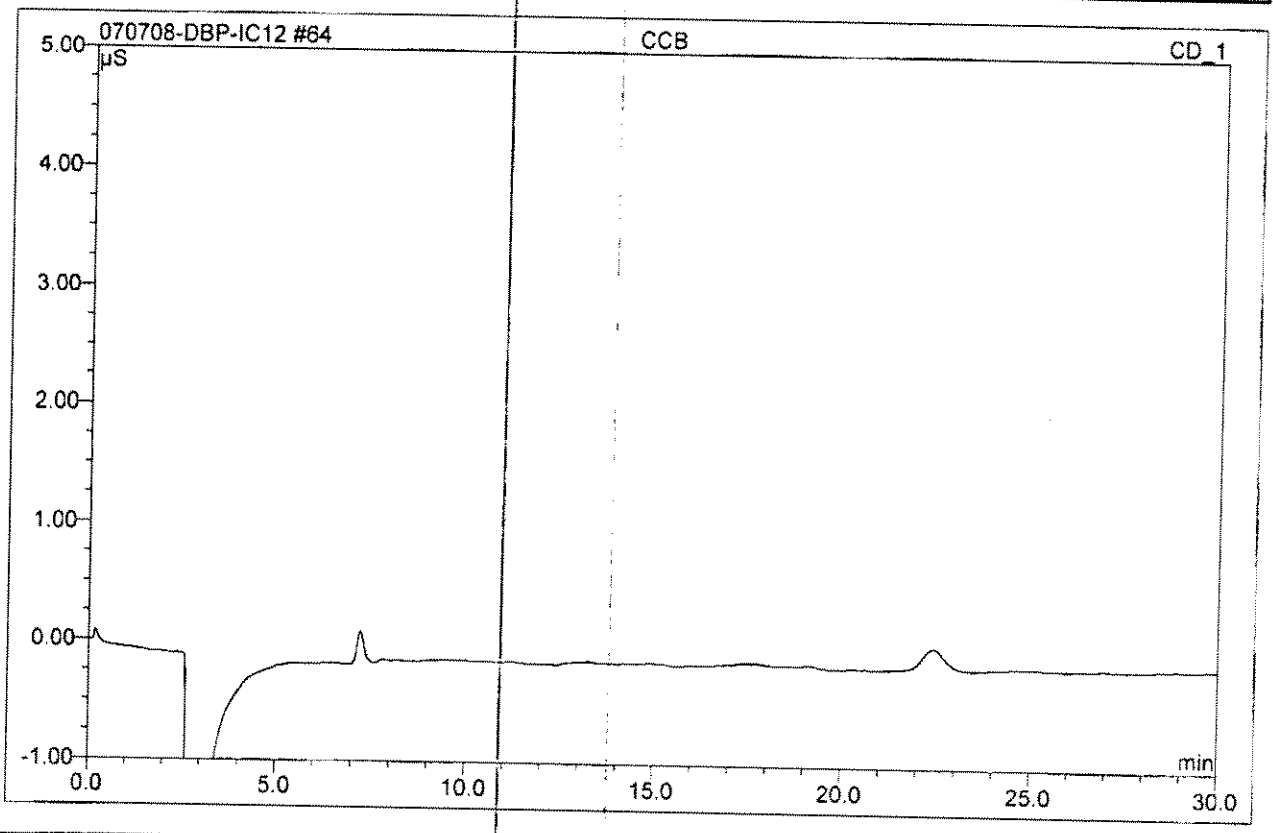
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**354**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 18:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.60	ClO2	1.038	0.190	41.67	196.782	BMB
2	11.94	Br	0.275	0.097	21.21	106.422	BMB
3	13.04	ClO3	0.451	0.169	37.11	207.498	BMB
Total:			1.764	0.455	100.00	510.702	

64 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**355**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 18:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

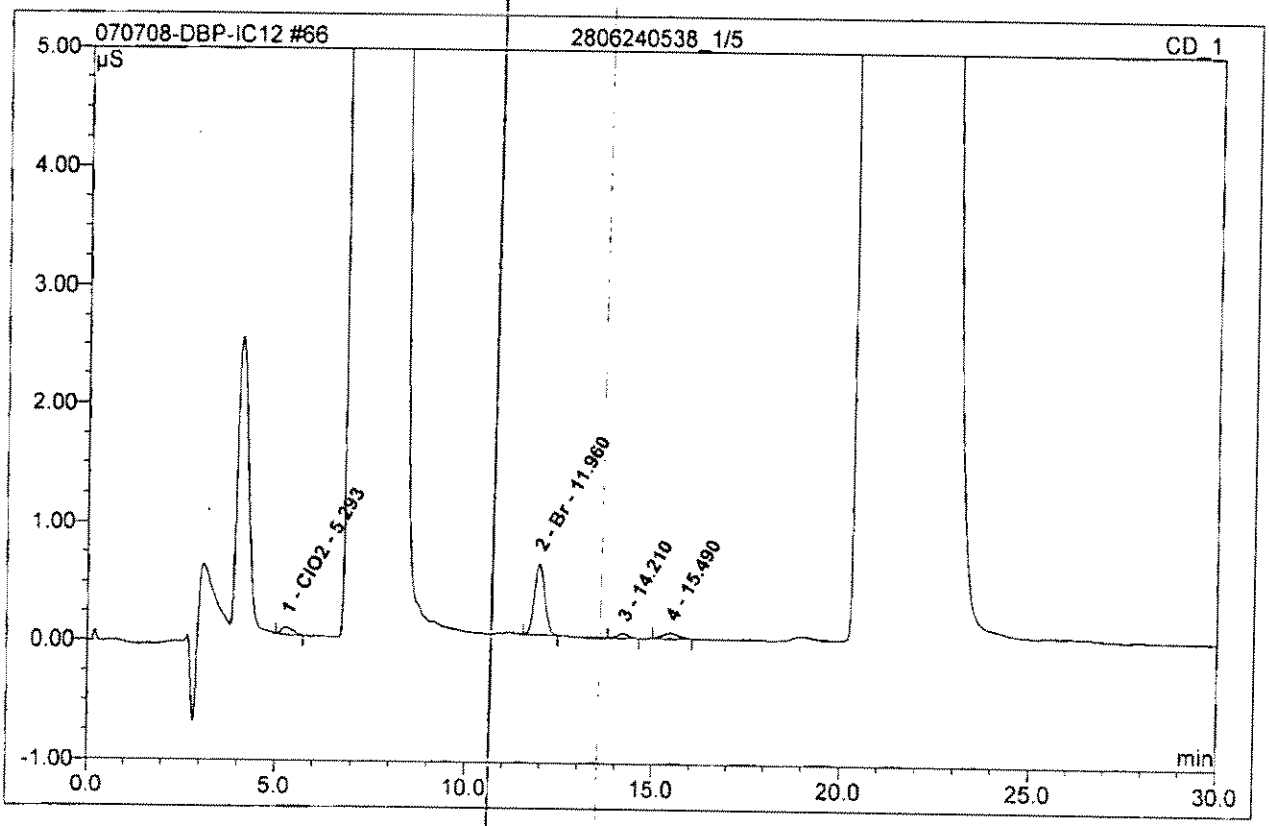


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

66 2806240538_1/5

CLO3

Sample Name:	**2806240538_1/5**	*Injection Volume:*	**1000.0**
Vial Number:	**357**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**5.0000**
Recording Time:	**7/8/2008 19:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

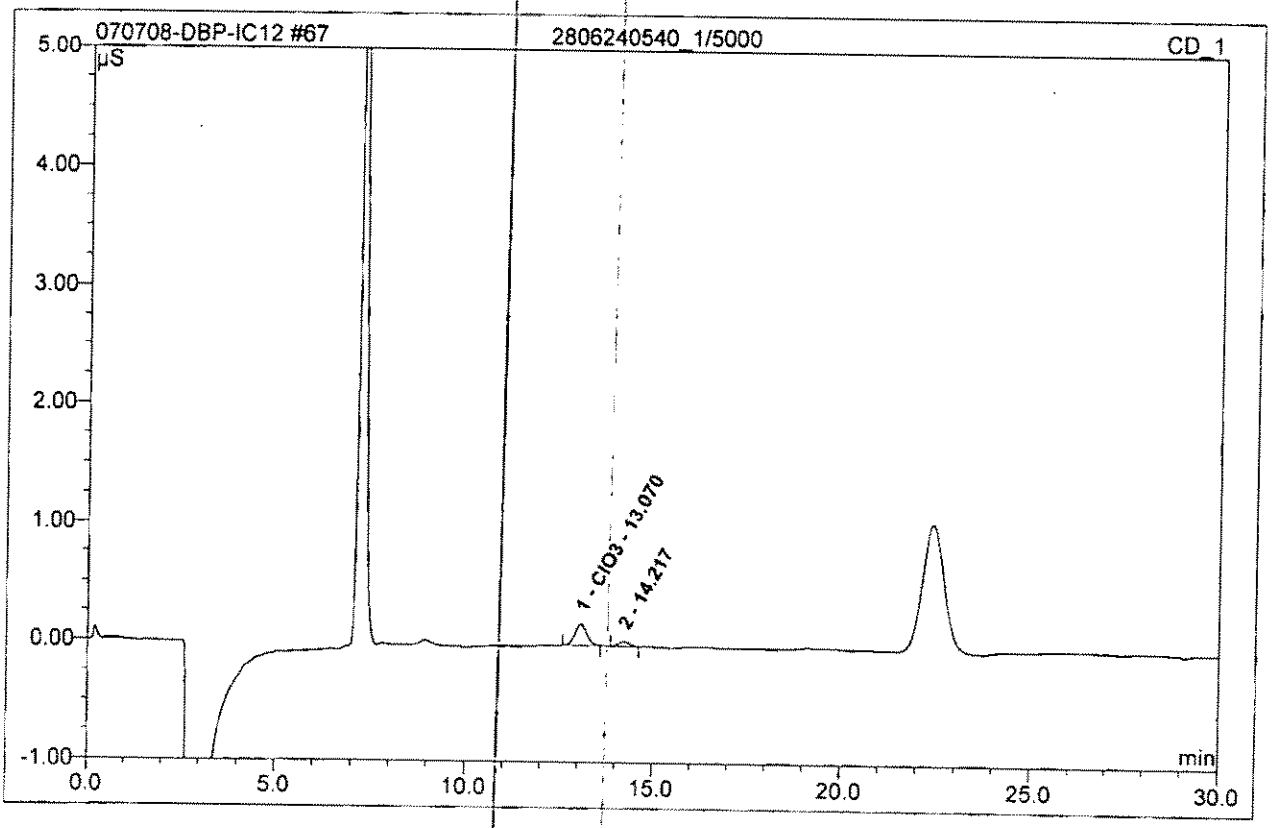


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.29	ClO2	0.066	0.023	9.12	121.267	BMB
2	11.96	Br	0.600	0.195	76.05	1074.513	BMB
3	14.21	n.a.	0.038	0.014	5.64	n.a.	BMB
4	15.49	n.a.	0.048	0.024	9.20	n.a.	BMB
Total:			0.752	0.256	100.00	1195.780	

67 2806240540_1/5000

CLO3

Sample Name:	**2806240540_1/5000**	*Injection Volume:*	**1000.0**
Vial Number:	**358**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**5000.0000**
Recording Time:	**7/8/2008 20:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**

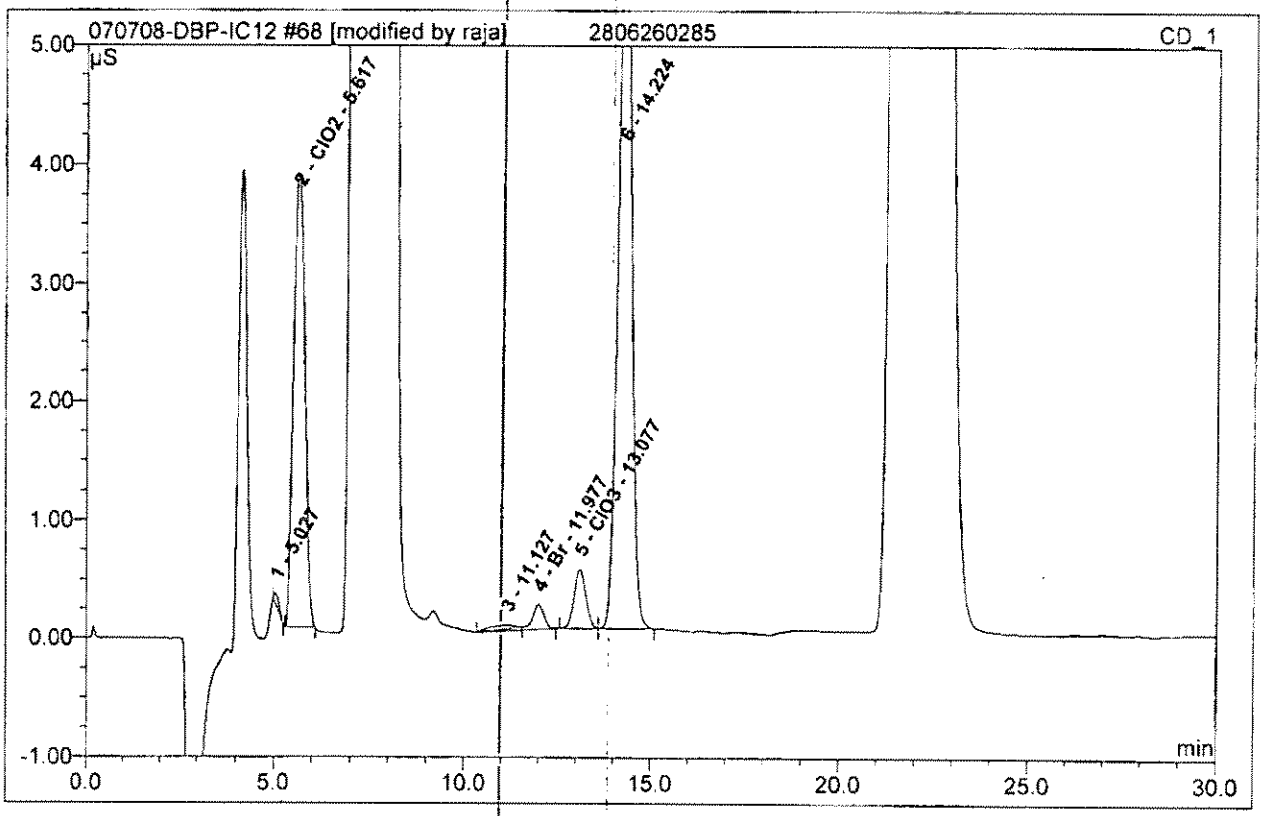


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	13.07	ClO3	0.180	0.067	82.34	410840.451	BMB
2	14.22	n.a.	0.039	0.014	17.66	n.a.	BMB
Total:			0.219	0.081	100.00	410840.451	

68 2806260285

CLO3

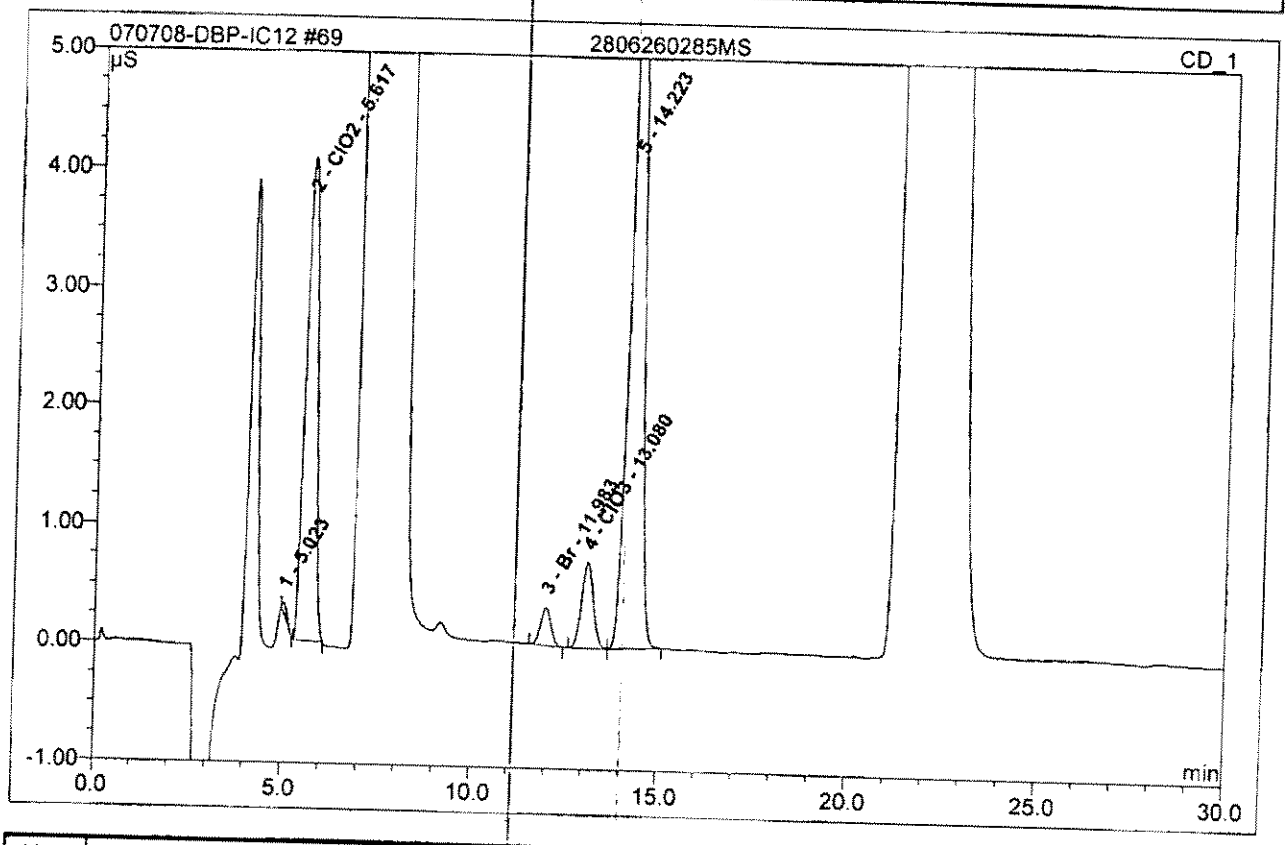
Sample Name:	**2806260285**	*Injection Volume:*	**1000.0**
Vial Number:	**359**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 20:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.03	n.a.	0.095	0.016	0.38	n.a.	BMB
2	5.62	ClO2	3.827	1.335	31.07	1384.681	BMB
3	11.13	n.a.	0.036	0.028	0.65	n.a.	Ru
4	11.98	Br	0.212	0.092	2.15	101.603	BMB*
5	13.08	ClO3	0.498	0.183	4.27	225.331	BM *
6	14.22	n.a.	6.702	2.642	61.48	n.a.	MB*
Total:			11.371	4.297	100.00	1711.616	

69 2806260285MS

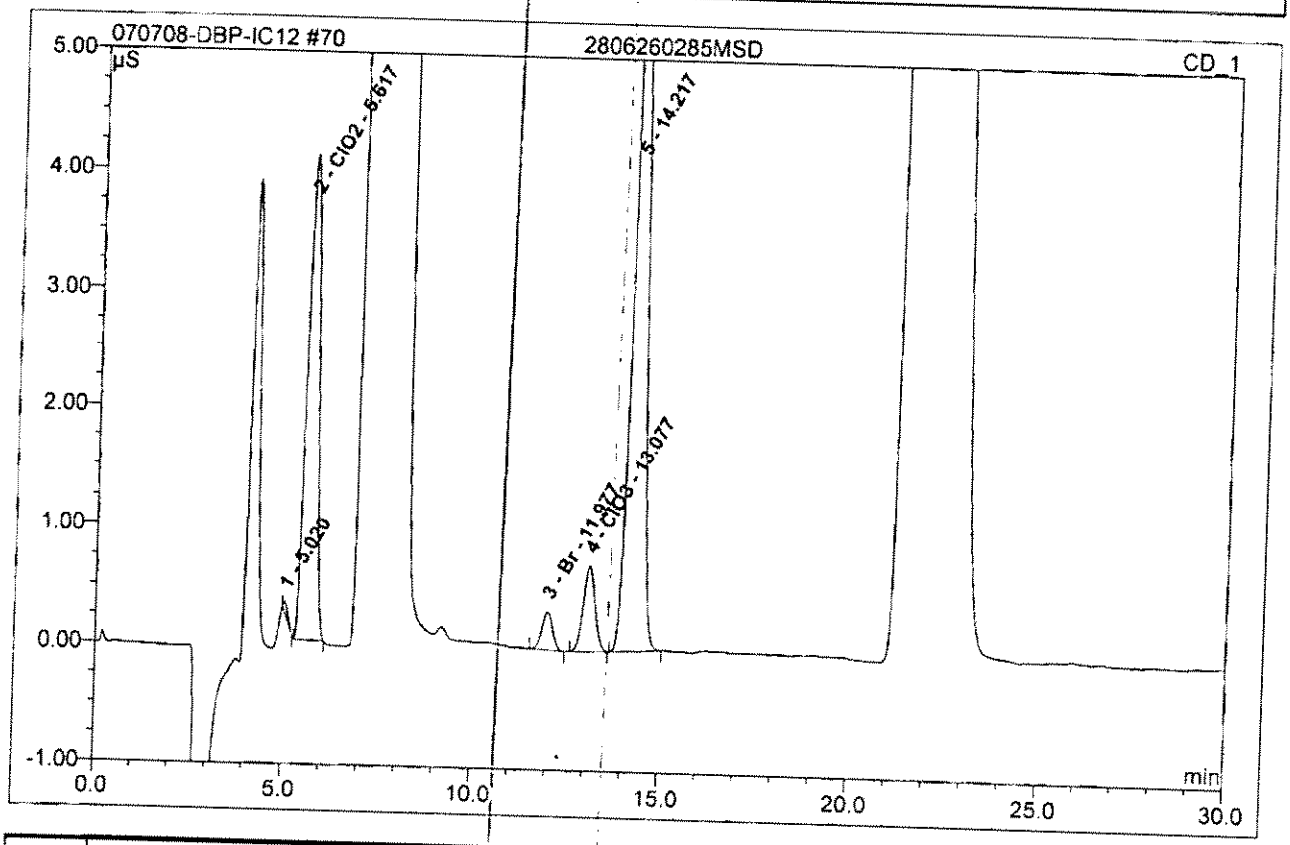
Sample Name:	**2806260285MS**	*Injection Volume:*	**1000.0**
Vial Number:	**360**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 21:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.02	n.a.	0.092	0.016	0.37	n.a.	BMB
2	5.62	ClO2	4.084	1.418	32.09	1470.812	BMB
3	11.98	Br	0.324	0.105	2.38	115.871	BMB
4	13.08	ClO3	0.724	0.266	6.01	326.281	BMB
5	14.22	n.a.	6.650	2.614	59.15	n.a.	BMB
Total:			11.874	4.419	100.00	1912.963	

70 2806260285MSD

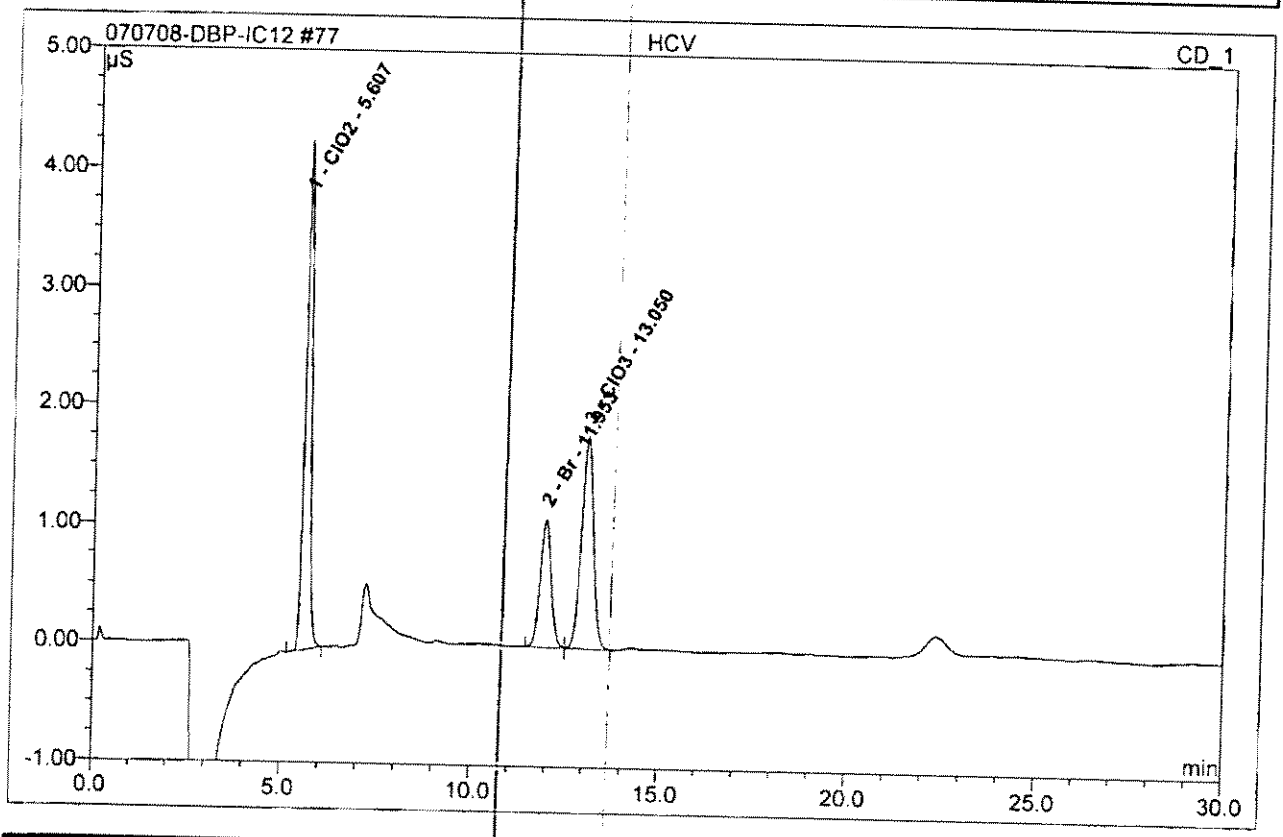
Sample Name:	**2806260285MSD**	*Injection Volume:*	**1000.0**
Vial Number:	**361**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/8/2008 21:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.02	n.a.	0.087	0.016	0.35	n.a.	BMB
2	5.62	ClO2	4.096	1.422	32.20	1475.115	BMB
3	11.98	Br	0.324	0.106	2.39	116.329	BMB
4	13.08	ClO3	0.723	0.264	5.98	324.278	BMB
5	14.22	n.a.	6.644	2.609	59.08	n.a.	BMB
Total:			11.873	4.417	100.00	1915.723	

77 HCV

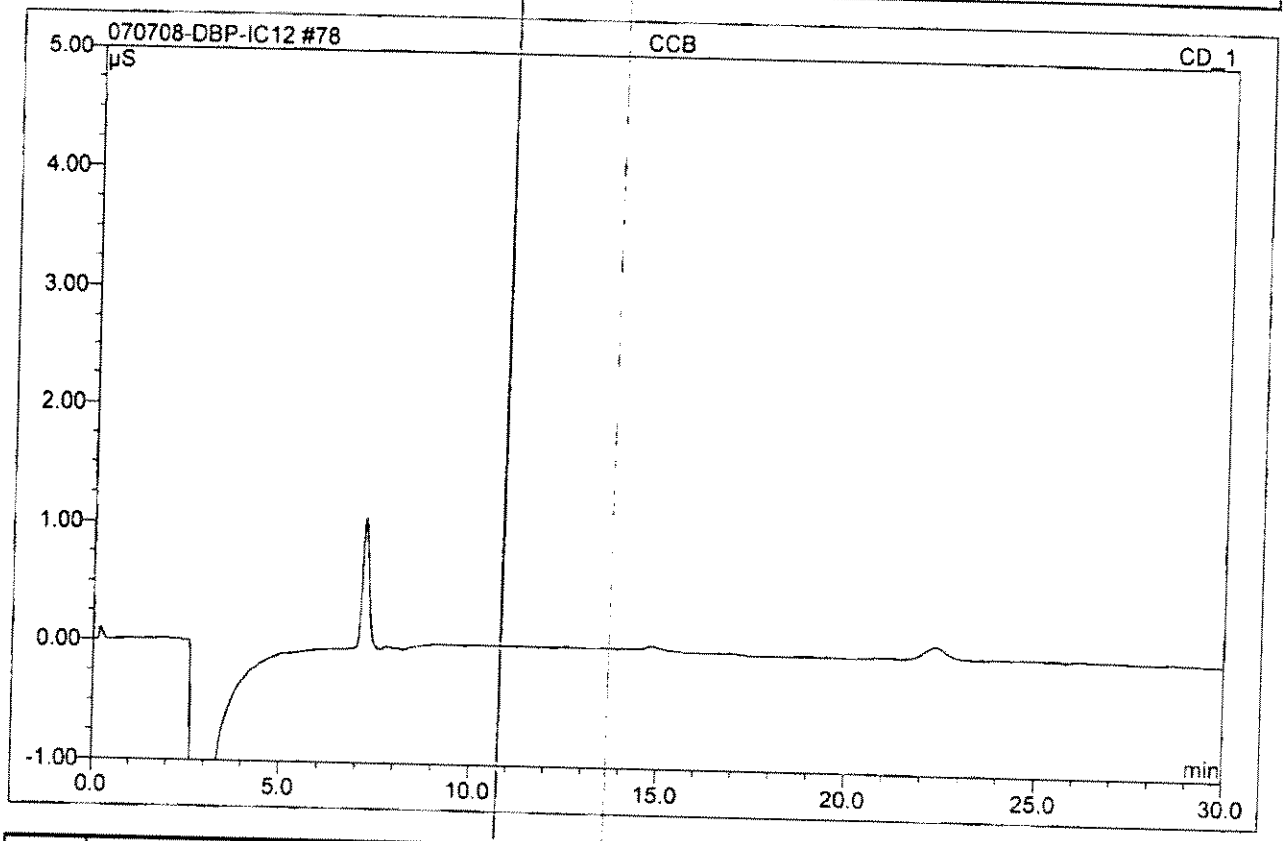
Sample Name:	**HCV**	*Injection Volume:*	**1000.0**
Vial Number:	**368**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/9/2008 1:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.61	ClO2	4.292	0.777	42.88	806.393	BMB
2	11.95	Br	1.079	0.366	20.17	402.941	BMB
3	13.05	ClO3	1.789	0.670	36.95	822.852	BMB
Total:			7.161	1.813	100.00	2032.186	

78 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**369**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC12 test Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/9/2008 2:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**30.00**	*Sample Amount:*	**1.0000**



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

Standard Preparation Worksheet & Certificate of Analysis

Reagent Preparation Documentation

Page: 29

Reagent: 9.0 HCV for TOC
Date Received/Prepped: 083107 / / / /
Date Expired: 023108 / / / /
Manufacturer:
Storage Condition:

MW #: Raja070831-03
By: Raja
Matrix: aq
Amount: 500ml
Lot #:

Component	Comment	Standard	Concentration
Carbon Std. organic	4.5ml into a 500ml flask	R201692	9.0 ppm
Exp:- 07-31-09	dilute with D.I. water and		
	add 8 drops of H_2SO_4		

Comment:

Reagent: DBP Calibration Stock Solution
Date Received/Prepped: 061608/062608 / / /
Date Expired: 071608/072608 / / /
Manufacturer:
Storage Condition:

MW #: Raja080616-1
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment		Standard	Concentration
Bromide 1000ppm	500ul	Add 50ul EDA solution	R201865	5ppm
Exp:- 06-01-09		ETLH071029-1 and dilute		
Chlorate 1000ppm	1000 ul	to 100ml of D.I. water	R201863	10 ppm
Exp:- 06-01-09				
Chlorite 1000ppm	100 ul		R201864	10ppm
Exp:- 06-01-09				

Comment:

Reagent: DBP Standard for Calibration #1
Date Received/Prepped: 061608/062608 / / /
Date Expired: 071608/072608 / / /
Manufacturer:
Storage Condition:

MW #: Raja080616-2
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment		Standard	Concentration
DBP stock solution	2 ea 100ml	Dilute with D.I water	Raja080616-1	Br- 5ppb
		to 100 ml		
EDA	50ul		ETLH071029-1	ClO_2- 10ppb
				ClO_3- 10ppb

Comment:

Reagent Preparation Documentation

Reagent: DBP Calibration Standard #2
Date Received/Prepped: 061608/062608/ / / /
Date Expired: 071608/072608/ / / /
Manufacturer:
Storage Condition:

MW #: Raja 080616-3
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
DBP Cal. Stock Soln	200µL } Dilute to 100ml with D.I water	Raja080616-1	Br = 10ppb
EDA	50µL }	TLH071029-1	ClO_2/ClO_3 = 20ppb

Comment:

Reagent: DBP Calibration Standard #3
Date Received/Prepped: 061608/062608/ / / /
Date Expired: 071608/072608/ / / /
Manufacturer:
Storage Condition:

MW #: Raja080616-4
By: Raja
Matrix: aq
Amount: 100 ml
Lot #:

Component	Comment	Standard	Concentration
DBP Cal. Stock soln	1ml } Dilute to 100 ml with D.I. water	Raja 080616-1	Br = 50ppb
EDA	50µL }	TLH071029-1	ClO_2/ClO_3 = 100ppb

Comment:

Reagent: DBP calibration Standard #4
Date Received/Prepped: 061608/062608/ / / /
Date Expired: 071608/072608/ / / /
Manufacturer:
Storage Condition:

MW #: Raja080616-5
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
DBP Calib. stock Soln	2 ml } Dilute to 100 ml with D.I. water	Raja080616-01	Br = 100ppb
EDA	30µL }	TLH071029-1	ClO_2/ClO_3 = 200ppb

Comment:

Reagent Preparation Documentation

Page: 31

Reagent: DBP Calibration Standard #5
Date Received/Prepped: ~~0616~~ 061608/062608 / /
Date Expired: 071608/072608 / /
Manufacturer:
Storage Condition:

MW #: Raja 080616-6
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
DBP Calib Stock soln	4ml → Dilute to 100ml with D.I. water	Raja 080616-1	Br = 200ppb
EDA	50µl	TLH071029-1	ClO_2/ClO_3 = 400ppb

Comment:

Reagent: DBP Calibration Standard #6
Date Received/Prepped: 061608/062608 / / /
Date Expired: 071608/072608 / / /
Manufacturer:
Storage Condition:

MW #: Raja 080616-7
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
DBP Calib. stock soln	8ml → Dilute to 100ml with D.I. Water	Raja 080616-1	Br = 400ppb
EDA	50µl	TLH071029-1	ClO_2/ClO_3 = 800ppb

Comment:

Reagent: DBP LCS stock Solution
Date Received/Prepped: 061608/062608 / / /
Date Expired: 071608/072608 / / /
Manufacturer:
Storage Condition:

MW #: Raja 080616-8
By: Raja
Matrix: aq
Amount: 100ml
Lot #:

Component	Comment	Standard	Concentration
Bromide 1000ppm	500µl → Add 50µl of EDA [TLH071029-1] then	R201709	Br = 5ppm
Exp:- 07-27-10			
ClO_2 1000ppm	1ml → dilute to 100ml with	R201797	ClO_2 / ClO_3
Exp:- 12-19-08	D.I. water		= 10ppm
Chlorate 1000ppm	1ml	R201400	
Exp- 05-31-09		Re 080616-6	

Comment:

INORGANIC VENTURES
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Lakewood, New Jersey 08701 - USA
inorganicventures.com

R201863
Rec'd 5-28-08

CERTIFICATE OF ANALYSIS

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fax: 732.901.1893
info@inorganicventures.com

1.0 INORGANIC VENTURES is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35:1989 "Certification of Reference Materials - General and Statistical Principals."

2.0 DESCRIPTION OF CRM Ion Chromatography 1000 µg/mL Chlorate in H2O

Catalog Number:	ICCLO31-1 and ICCLO31-5
Lot Number:	**A2-CLOX01044**
Starting Material:	Potassium Chlorate
Starting Material Purity (%):	99.9900
Starting Material Lot No.:	02407TF
Matrix:	H2O

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 994 ± 2 µg/mL

Certified Density: 0.999 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

The independent samples t-test was used to determine if there is agreement between the above assay methods at the 95% confidence interval. Both methods were compared and showed agreement within the stated uncertainties. This agreement is a confirmation of the accuracy of this CRM.

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

- "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)
- This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

Assay Method #1 **1003 ± 5 µg/mL**
ICP Assay NIST SRM 3182 Lot Number: 990506

Assay Method #2 **994 ± 2 µg/mL**
IC Assay NIST SRM Lot Number: in-house std

Reagent Documentation

Reagent: COD Vials
Date Received: 28 May 08
Date Expired: 10/2012
Manufacturer: Environmental Express
Storage Condition: room temp

Reagent #: 201861
By: TLH
Matrix: aq
Amount: 3x100 vials
Lot #: 106601

Component	Comment	Standard	Concentration
	EE# B1010		

Comment:

Reagent: Nitrate as N Standard
Date Received: 28 May 08
Date Expired: 01 June 09
Manufacturer: Inorganic Ventures
Storage Condition: room temp

Reagent #: 201862
By: TLH
Matrix: aq
Amount: 125mL
Lot #: B2-NOX02055

Component	Comment	Standard	Concentration
	IV# ICNNO3I-1		

Comment:

Reagent: ClO_3 Standard
Date Received: 28 May 08
Date Expired: 01 Jun 09
Manufacturer: Inorganic Ventures
Storage Condition: room temp

Reagent #: 201863
By: TLH
Matrix: aq
Amount: 125mL
Lot #: A2-CLOX01044

Component	Comment	Standard	Concentration
	IV# ICCLO3I-1		

Comment:

1.0 **INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35:1989 "Certification of Reference Materials - General and Statistical Principals."

2.0 **DESCRIPTION OF CRM** **1000 µg/mL Chlorite in Water**

Catalog Number:	ICCLO21-1 and ICCLO21-5
Lot Number:	**B2-CLOX01046**
Starting Material:	NaClO2
Starting Material Purity (%):	80.000000
Starting Material Lot No:	E02F39
Matrix:	Water

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 999 ± 2 µg/mL

Certified Density: 0.999 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty

$$\text{Certified Value } (\bar{x}) = \frac{\Sigma x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$$

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 **TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS**

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 **Assay Method #1** · **999 ± 2 µg/mL**
Iodometric NIST SRM 136e Lot Number: 980702

Assay Method #2 **1001 ± 5 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

1.0 **INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35:1989 "Certification of Reference Materials - General and Statistical Principals."

2.0 DESCRIPTION OF CRM Ion Chromatography 1000 µg/mL Bromide in Water

Catalog Number:	ICBR1-1 and ICBR1-5
Lot Number:	**B2-BR01069**
Starting Material:	Potassium Bromide
Starting Material Purity (%):	99.9900
Starting Material Lot No.:	09014BY
Matrix:	Water

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 998 ± 3 µg/mL

Certified Density: 0.999 g/mL (measured at 22° C)

The following equations are used in the calculation of the certified value and the uncertainty

Certified Value $(\bar{x}) = \frac{\Sigma x_i}{n}$

Uncertainty $(\pm) = \frac{2[(\Sigma s_i)^2]^{1/2}}{(n)^{1/2}}$

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_i = The summation of all significant estimated errors (Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

· "Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

· This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

Assay Method #1 **998 ± 3 µg/mL**
IC Assay NIST SRM 3184 Lot Number: 020701

Assay Method #2 **1,004 ± 4 µg/mL**
Volhard NIST SRM 999b Lot Number: 999b

Reagent Documentation

Reagent: ClO_2 Standard
Date Received: 28 May 08
Date Expired: 01 Jun 09
Manufacturer: Inorganic Ventures
Storage Condition: room temp

Reagent #: 201864
By: RH
Matrix: aq
Amount: 125mL
Lot #: B2-CLOX01046

Component	Comment	Standard	Concentration
	IV# ICCL021-1		

Comment:

Reagent: BR Standard
Date Received: 28 May 08
Date Expired: 01 Jun 09
Manufacturer: Inorganic Ventures
Storage Condition: room temp

Reagent #: 201865
By: RH
Matrix: aq
Amount: 125mL
Lot #: B2-BR01069

Component	Comment	Standard	Concentration
	IV# ICBR1-1		

Comment:

Reagent: Chloroform
Date Received: 3 June 08
Date Expired: June 2011
Manufacturer: EmD
Storage Condition: room temp

Reagent #: 201866
By: RH
Matrix: aq
Amount: 12x 4L
Lot #: 48032

Component	Comment	Standard	Concentration
	EmD# CX1054-1		

Comment: