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Level IV Data Package

MWH Group 242355

Method: EPA 300.1B

2805280375
2805280376

DBP QC Checklist

Analysis Date: 6/1/08 **Analyst:** CW **QC'd by** [illegible] **Date** 8 Jun 08

Instrument: ~~IC7~~ IC4

Calibration including QCS(Secondary Source)

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

✓ 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.

✓ *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)

2nd source ~~CLV071025~~ WE06097
R201709 (Br) 7/10
R201797 (ClO2) 12/08
R201400 (ClO3) 5/09

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

✓ 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

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

✓ 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%

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

✓ HCV recovery is between 90-110%

✓ 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

NA QIR needed for failed QC

____ QIR needed for samples analyzed outside of hold time

No. ,	Sample Name ,	Comment	Time	Dil.Fac.	Amount ppb Br ECD_1	
1,	autocal1,		05/31/08 13:05,	1.0,	n.a.	
2,	autocal2,	S1-10/5/10	05/31/08 13:30,	1.0,	3.6052,	
3,	autocal3,	S2-20/10/20	05/31/08 13:56,	1.0,	9.7091,	
4,	autocal4,	S3-100/50/100	05/31/08 14:21,	1.0,	49.9494,	
5,	autocal5,	S4-200/100/200	05/31/08 14:46,	1.0,	105.1404,	
6,	autocal6,	S5-400/200/400	05/31/08 15:12,	1.0,	197.7292,	
7,	autocal7,	S6-800/400/800	05/31/08 15:37,	1.0,	399.8639,	
8,	autocal2,	S1-10/5/10	05/31/08 16:02,	1.0,	5.0023,	
9,	MCV,	200/100/200	06/01/08 21:06,	1.0,	105.3117,	105%
10,	CCB,		06/01/08 21:31,	1.0,	n.a.	
11,	MRLCHK,	S1-10/5/10	06/01/08 21:56,	1.0,	3.8106,	76.2%
12,	MBLK,		06/01/08 22:22,	1.0,	n.a.	
13,	LCS1,	200/100/200	06/01/08 22:47,	1.0,	102.5056,	102%
14,	LCS2,	200/100/200	06/01/08 23:12,	1.0,	99.2391,	99.2%
15,	2805290574,	CLO2	06/01/08 23:37,	1.0,	121.0549,	
16,	2805300088,	CLO2	06/02/08 00:03,	1.0,	n.a.	
17,	2805300088-MS,	100/50/100	06/02/08 00:28,	1.0,	48.6596,	97.3%
18,	2805300088-MSD,	100/50/100	06/02/08 00:53,	1.0,	50.7195,	101%
19,	2805300089,	CLO2	06/02/08 01:19,	1.0,	n.a.	
20,	2805300188,	CLO2	06/02/08 01:44,	1.0,	7.1384,	
21,	2805300189,	CLO2	06/02/08 02:09,	1.0,	n.a.	
22,	2805300190,	CLO2	06/02/08 02:34,	1.0,	10.2279,	
23,	2805150230_1/2,	CLO2/BR	06/02/08 03:00,	2.0,	139.2426,	
24,	2805160040,	CLO2 /BR	06/02/08 03:25,	1.0,	n.a.	
25,	2805200235,	CLO2 / BR	06/02/08 03:50,	1.0,	n.a.	
26,	2805150800_1/100,	BR	06/02/08 04:15,	100.0,	1711.7589,	
27,	MCV,	200/100/200	06/02/08 04:41,	1.0,	109.9449,	110%
28,	CCB,		06/02/08 05:06,	1.0,	n.a.	
29,	2805230305_1/2,	BR	06/02/08 05:31,	2.0,	143.5668,	
30,	2805230306,	BR	06/02/08 05:56,	1.0,	n.a.	
31,	2805230306-MS,	100/50/100	06/02/08 06:22,	1.0,	50.2237,	100%
32,	2805230306-MSD,	100/50/100	06/02/08 06:47,	1.0,	47.2994,	94.6%
33,	2805230307_1/2,	BR	06/02/08 07:12,	2.0,	467.0178,	
34,	2805230308_1/2,	BR	06/02/08 07:37,	2.0,	148.0381,	
35,	2805230309_1/2,	BR	06/02/08 08:03,	2.0,	149.0382,	
36,	2805160273_1/10000,	CLO3	06/02/08 08:28,	10000.0,	n.a.	
37,	2805200278_1/5,	CLO3	06/02/08 08:53,	5.0,	1089.3477,	
38,	2805200280_1/5000,	CLO3	06/02/08 09:18,	5000.0,	n.a.	
39,	2805230234_1/10000,	CLO3	06/02/08 09:44,	10000.0,	n.a.	
40,	2805280375_1/5,	CLO3	06/02/08 10:09,	5.0,	1101.3471,	
41,	2805280376_1/5000,	CLO3	06/02/08 10:34,	5000.0,	n.a.	
42,	2805160296_1/500,	CLO3	06/02/08 10:59,	500.0,	n.a.	
43,	HCV,	800/400/800	06/02/08 11:25,	1.0,	405.2577,	101%
44,	CCB,		06/02/08 11:50,	1.0,	n.a.	

No. ,	Sample Name ,	Comment	Time	Dil.Fac.	Amount ppb ClO2 ECD_1	
1,	autocal1,		05/31/08 13:05,	1.0,	n.a.	
2,	autocal2,	S1-10/5/10	05/31/08 13:30,	1.0,	9.9358,	
3,	autocal3,	S2-20/10/20	05/31/08 13:56,	1.0,	18.5639,	
4,	autocal4,	S3-100/50/100	05/31/08 14:21,	1.0,	99.4188,	
5,	autocal5,	S4-200/100/200	05/31/08 14:46,	1.0,	194.8940,	
6,	autocal6,	S5-400/200/400	05/31/08 15:12,	1.0,	394.5717,	
7,	autocal7,	S6-800/400/800	05/31/08 15:37,	1.0,	804.1062,	
8,	autocal2,	S1-10/5/10	05/31/08 16:02,	1.0,	9.4381,	
9,	MCV,	200/100/200	06/01/08 21:06,	1.0,	204.0134,	102 %
10,	CCB,		06/01/08 21:31,	1.0,	n.a.	
11,	MRLCHK,	S1-10/5/10	06/01/08 21:56,	1.0,	10.9363,	109 %
12,	MBLK,		06/01/08 22:22,	1.0,	n.a.	
13,	LCS1,	200/100/200	06/01/08 22:47,	1.0,	206.6871,	103 %
14,	LCS2,	200/100/200	06/01/08 23:12,	1.0,	207.0016,	104 %
15,	2805290574,	CLO2	06/01/08 23:37,	1.0,	12.3331,	
16,	2805300088,	CLO2	06/02/08 00:03,	1.0,	n.a.	
17,	2805300088-MS,	100/50/100	06/02/08 00:28,	1.0,	99.7371,	99.7 %
18,	2805300088-MSD,	100/50/100	06/02/08 00:53,	1.0,	98.8116,	98.8 %
19,	2805300089,	CLO2	06/02/08 01:19,	1.0,	n.a.	
20,	2805300188,	CLO2	06/02/08 01:44,	1.0,	291.0992,	
21,	2805300189,	CLO2	06/02/08 02:09,	1.0,	n.a.	
22,	2805300190,	CLO2	06/02/08 02:34,	1.0,	124.8117,	
23,	2805150230_1/2,	CLO2	06/02/08 03:00,	2.0,	n.a.	
24,	2805160040,	CLO2	06/02/08 03:25,	1.0,	n.a.	
25,	2805200235,	CLO2	06/02/08 03:50,	1.0,	n.a.	
26,	2805150800_1/100,	BR	06/02/08 04:15,	100.0,	n.a.	
27,	MCV,	200/100/200	06/02/08 04:41,	1.0,	205.7019,	103 %
28,	CCB,		06/02/08 05:06,	1.0,	n.a.	
29,	2805230305_1/2,	BR	06/02/08 05:31,	2.0,	n.a.	
30,	2805230306,	BR	06/02/08 05:56,	1.0,	n.a.	
31,	2805230306-MS,	100/50/100	06/02/08 06:22,	1.0,	103.3796,	103 %
32,	2805230306-MSD,	100/50/100	06/02/08 06:47,	1.0,	102.9318,	103 %
33,	2805230307_1/2,	BR	06/02/08 07:12,	2.0,	n.a.	
34,	2805230308_1/2,	BR	06/02/08 07:37,	2.0,	n.a.	
35,	2805230309_1/2,	BR	06/02/08 08:03,	2.0,	n.a.	
36,	2805160273_1/10000,	CLO3	06/02/08 08:28,	10000.0,	n.a.	
37,	2805200278_1/5,	CLO3	06/02/08 08:53,	5.0,	n.a.	
38,	2805200280_1/5000,	CLO3	06/02/08 09:18,	5000.0,	n.a.	
39,	2805230234_1/10000,	CLO3	06/02/08 09:44,	10000.0,	n.a.	
40,	2805280375_1/5,	CLO3	06/02/08 10:09,	5.0,	n.a.	
41,	2805280376_1/5000,	CLO3	06/02/08 10:34,	5000.0,	n.a.	
42,	2805160296_1/500,	CLO3	06/02/08 10:59,	500.0,	n.a.	
43,	HCV,	800/400/800	06/02/08 11:25,	1.0,	817.8389,	102 %
44,	CCB,		06/02/08 11:50,	1.0,	n.a.	

No. ,	Sample Name ,	Comment	Time	Dil.Fac.	Amount ppb ClO3 ECD_1	
1,	autocal1,		05/31/08 13:05,	1.0,	n.a.	
2,	autocal2,	S1-10/5/10	05/31/08 13:30,	1.0,	9.883	
3,	autocal3,	S2-20/10/20	05/31/08 13:56,	1.0,	18.8993	
4,	autocal4,	S3-100/50/100	05/31/08 14:21,	1.0,	94.0748	
5,	autocal5,	S4-200/100/200	05/31/08 14:46,	1.0,	199.1081	
6,	autocal6,	S5-400/200/400	05/31/08 15:12,	1.0,	390.3678	
7,	autocal7,	S6-800/400/800	05/31/08 15:37,	1.0,	805.8016	
8,	autocal2,	S1-10/5/10	05/31/08 16:02,	1.0,	10.4502	
9,	MCV,	200/100/200	06/01/08 21:06,	1.0,	200.355	100%
10,	CCB,		06/01/08 21:31,	1.0,	n.a.	
11,	MRLCHK,	S1-10/5/10	06/01/08 21:56,	1.0,	9.0421	90.4%
12,	MBLK,		06/01/08 22:22,	1.0,	n.a.	
13,	LCS1,	200/100/200	06/01/08 22:47,	1.0,	211.3947	106%
14,	LCS2,	200/100/200	06/01/08 23:12,	1.0,	197.146	98.6%
15,	2805290574,	CLO2	06/01/08 23:37,	1.0,	694.1738	
16,	2805300088,	CLO2	06/02/08 00:03,	1.0,	n.a.	
17,	2805300088-MS,	100/50/100	06/02/08 00:28,	1.0,	96.6136	96.6%
18,	2805300088-MSD,	100/50/100	06/02/08 00:53,	1.0,	98.9127	98.9%
19,	2805300089,	CLO2	06/02/08 01:19,	1.0,	n.a.	
20,	2805300188,	CLO2	06/02/08 01:44,	1.0,	253.3116	
21,	2805300189,	CLO2	06/02/08 02:09,	1.0,	n.a.	
22,	2805300190,	CLO2	06/02/08 02:34,	1.0,	128.3962	
23,	2805150230_1/2,	CLO2	06/02/08 03:00,	2.0,	415.8966	
24,	2805160040,	CLO2	06/02/08 03:25,	1.0,	n.a.	
25,	2805200235,	CLO2	06/02/08 03:50,	1.0,	15.2348	
26,	2805150800_1/100,	BR	06/02/08 04:15,	100.0,	n.a.	
27,	MCV,	200/100/200	06/02/08 04:41,	1.0,	206.5444	103%
28,	CCB,		06/02/08 05:06,	1.0,	n.a.	
29,	2805230305_1/2,	BR	06/02/08 05:31,	2.0,	n.a.	
30,	2805230306,	BR	06/02/08 05:56,	1.0,	n.a.	
31,	2805230306-MS,	100/50/100	06/02/08 06:22,	1.0,	96.1466	96.2%
32,	2805230306-MSD,	100/50/100	06/02/08 06:47,	1.0,	99.1247	99.1%
33,	2805230307_1/2,	BR	06/02/08 07:12,	2.0,	n.a.	
34,	2805230308_1/2,	BR	06/02/08 07:37,	2.0,	n.a.	
35,	2805230309_1/2,	BR	06/02/08 08:03,	2.0,	n.a.	
36,	2805160273_1/10000,	CLO3	06/02/08 08:28,	10000.0,	2607120	
37,	2805200278_1/5,	CLO3	06/02/08 08:53,	5.0,	n.a.	
38,	2805200280_1/5000,	CLO3	06/02/08 09:18,	5000.0,	371233.5	
39,	2805230234_1/10000,	CLO3	06/02/08 09:44,	10000.0,	3403634	
40,	2805280375_1/5,	CLO3	06/02/08 10:09,	5.0,	n.a.	
41,	2805280376_1/5000,	CLO3	06/02/08 10:34,	5000.0,	362177.9	
42,	2805160296_1/500,	CLO3	06/02/08 10:59,	500.0,	53930.09	
43,	HCV,	800/400/800	06/02/08 11:25,	1.0,	807.6513	101%
44,	CCB,		06/02/08 11:50,	1.0,	n.a.	

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC6_317_3001\2008\June
Timebase: IC-#6
#Samples: 44
Created: 6/1/2008 4:48:57 PM by clv
Last Update: 6/3/2008 3:34:19 PM by clv

No.	Name	Sample ID	Dil. Factor	Type	Comment	Program
1	autocal1		1.0000	Standard		BRO3-LOW-2channel
2	autocal2	CLV080531-2	1.0000	Unknown	S1-10/5/10	BRO3-LOW-2channel
3	autocal3	CLV080531-3	1.0000	Standard	S2-20/10/20	BRO3-LOW-2channel
4	autocal4	CLV080531-4	1.0000	Standard	S3-100/50/100	BRO3-LOW-2channel
5	autocal5	CLV080531-5	1.0000	Standard	S4-200/100/200	BRO3-LOW-2channel
6	autocal6	CLV080531-6	1.0000	Standard	S5-400/200/400	BRO3-LOW-2channel
7	autocal7	CLV080531-7	1.0000	Standard	S6-800/400/800	BRO3-LOW-2channel
8	autocal2	CLV080531-2	1.0000	Standard	S1-10/5/10	BRO3-LOW-2channel
9	MCV	200/100/200	1.0000	Unknown	200/100/200	BRO3-LOW-2channel
10	CCB		1.0000	Unknown		BRO3-LOW-2channel
11	MRLCHK	S1-10/5/10	1.0000	Unknown	S1-10/5/10	BRO3-LOW-2channel
12	MBLK		1.0000	Unknown		BRO3-LOW-2channel
13	LCS1		1.0000	Unknown	200/100/200	BRO3-LOW-2channel
14	LCS2		1.0000	Unknown	200/100/200	BRO3-LOW-2channel
15	2805290574		1.0000	Unknown	CLO2	BRO3-LOW-2channel
16	2805300088		1.0000	Unknown	CLO2	BRO3-LOW-2channel
17	2805300088-MS	100/50/100	1.0000	Unknown	100/50/100	BRO3-LOW-2channel
18	2805300088-MSD	100/50/100	1.0000	Unknown	100/50/100	BRO3-LOW-2channel
19	2805300089		1.0000	Unknown	CLO2	BRO3-LOW-2channel
20	2805300188		1.0000	Unknown	CLO2	BRO3-LOW-2channel
21	2805300189		1.0000	Unknown	CLO2	BRO3-LOW-2channel
22	2805300190		1.0000	Unknown	CLO2	BRO3-LOW-2channel
23	2805150230_1/2		2.0000	Unknown	CLO2/BR	BRO3-LOW-2channel
24	2805160040		1.0000	Unknown	CLO2/BR	BRO3-LOW-2channel
25	2805200235		1.0000	Unknown	CLO2/BR	BRO3-LOW-2channel
26	2805150800_1/100		100.0000	Unknown	BR	BRO3-LOW-2channel
27	MCV	200/100/200	1.0000	Unknown	200/100/200	BRO3-LOW-2channel
28	CCB		1.0000	Unknown		BRO3-LOW-2channel
29	2805230305_1/2		2.0000	Unknown	BR	BRO3-LOW-2channel
30	2805230306		1.0000	Unknown	BR	BRO3-LOW-2channel
31	2805230306-MS	100/50/100	1.0000	Unknown	100/50/100	BRO3-LOW-2channel
32	2805230306-MSD	100/50/100	1.0000	Unknown	100/50/100	BRO3-LOW-2channel
33	2805230307_1/2		2.0000	Unknown	BR	BRO3-LOW-2channel
34	2805230308_1/2		2.0000	Unknown	BR	BRO3-LOW-2channel
35	2805230309_1/2		2.0000	Unknown	BR	BRO3-LOW-2channel
36	2805160273_1/10000		10000.0000	Unknown	CLO3	BRO3-LOW-2channel
37	2805200278_1/5		5.0000	Unknown	CLO3	BRO3-LOW-2channel
38	2805200280_1/5000		5000.0000	Unknown	CLO3	BRO3-LOW-2channel
39	2805230234_1/10000		10000.0000	Unknown	CLO3	BRO3-LOW-2channel
40	2805280375_1/5		5.0000	Unknown	CLO3	BRO3-LOW-2channel
41	2805280376_1/5000		5000.0000	Unknown	CLO3	BRO3-LOW-2channel
42	2805160296_1/500		500.0000	Unknown	CLO3	BRO3-LOW-2channel

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC6_317_3001\2008\June
Timebase: IC-#6
#Samples: 44
Created: 6/1/2008 4:48:57 PM by clv
Last Update: 6/3/2008 3:34:19 PM by clv

No.	Name	Method	Status	Inj. Date/Time	*Analyst
1	autocal1	DBP-Method	Finished	5/31/2008 1:05:43 PM	clv
2	autocal2	DBP-Method	Finished	5/31/2008 1:30:59 PM	clv
3	autocal3	DBP-Method	Finished	5/31/2008 1:56:14 PM	clv
4	autocal4	DBP-Method	Finished	5/31/2008 2:21:30 PM	clv
5	autocal5	DBP-Method	Finished	5/31/2008 2:46:45 PM	clv
6	autocal6	DBP-Method	Finished	5/31/2008 3:12:00 PM	clv
7	autocal7	DBP-Method	Finished	5/31/2008 3:37:17 PM	clv
8	autocal2	DBP-Method	Finished	5/31/2008 4:02:32 PM	clv
9	MCV	DBP-Method	Finished	6/1/2008 9:06:20 PM	clv
10	CCB	DBP-Method	Finished	6/1/2008 9:31:36 PM	clv
11	MRLCHK	DBP-Method	Finished	6/1/2008 9:56:53 PM	clv
12	MBLK	DBP-Method	Finished	6/1/2008 10:22:10 PM	clv
13	LCS1	DBP-Method	Finished	6/1/2008 10:47:25 PM	clv
14	LCS2	DBP-Method	Finished	6/1/2008 11:12:42 PM	clv
15	2805290574	DBP-Method	Finished	6/1/2008 11:37:59 PM	clv
16	2805300088	DBP-Method	Finished	6/2/2008 12:03:16 AM	clv
17	2805300088-MS	DBP-Method	Finished	6/2/2008 12:28:32 AM	clv
18	2805300088-MSD	DBP-Method	Finished	6/2/2008 12:53:47 AM	clv
19	2805300089	DBP-Method	Finished	6/2/2008 1:19:04 AM	clv
20	2805300188	DBP-Method	Finished	6/2/2008 1:44:20 AM	clv
21	2805300189	DBP-Method	Finished	6/2/2008 2:09:34 AM	clv
22	2805300190	DBP-Method	Finished	6/2/2008 2:34:51 AM	clv
23	2805150230_1/2	DBP-Method	Finished	6/2/2008 3:00:06 AM	clv
24	2805160040	DBP-Method	Finished	6/2/2008 3:25:20 AM	clv
25	2805200235	DBP-Method	Finished	6/2/2008 3:50:34 AM	clv
26	2805150800_1/100	DBP-Method	Finished	6/2/2008 4:15:51 AM	clv
27	MCV	DBP-Method	Finished	6/2/2008 4:41:08 AM	clv
28	CCB	DBP-Method	Finished	6/2/2008 5:06:24 AM	clv
29	2805230305_1/2	DBP-Method	Finished	6/2/2008 5:31:38 AM	clv
30	2805230306	DBP-Method	Finished	6/2/2008 5:56:54 AM	clv
31	2805230306-MS	DBP-Method	Finished	6/2/2008 6:22:08 AM	clv
32	2805230306-MSD	DBP-Method	Finished	6/2/2008 6:47:23 AM	clv
33	2805230307_1/2	DBP-Method	Finished	6/2/2008 7:12:38 AM	clv
34	2805230308_1/2	DBP-Method	Finished	6/2/2008 7:37:53 AM	clv
35	2805230309_1/2	DBP-Method	Finished	6/2/2008 8:03:06 AM	clv
36	2805160273_1/10000	DBP-Method	Finished	6/2/2008 8:28:20 AM	clv
37	2805200278_1/5	DBP-Method	Finished	6/2/2008 8:53:35 AM	clv
38	2805200280_1/5000	DBP-Method	Finished	6/2/2008 9:18:50 AM	clv
39	2805230234_1/10000	DBP-Method	Finished	6/2/2008 9:44:04 AM	clv
40	2805280375_1/5	DBP-Method	Finished	6/2/2008 10:09:19 AM	clv
41	2805280376_1/5000	DBP-Method	Finished	6/2/2008 10:34:33 AM	clv
42	2805160296_1/500	DBP-Method	Finished	6/2/2008 10:59:48 AM	clv

Title:
Datasource: Dionex_USPAS2SDIO2
Location: IC\IC6_317_3001\2008\June
Timebase: IC-#6
#Samples: 44
Created: 6/1/2008 4:48:57 PM by clv
Last Update: 6/3/2008 3:34:19 PM by clv

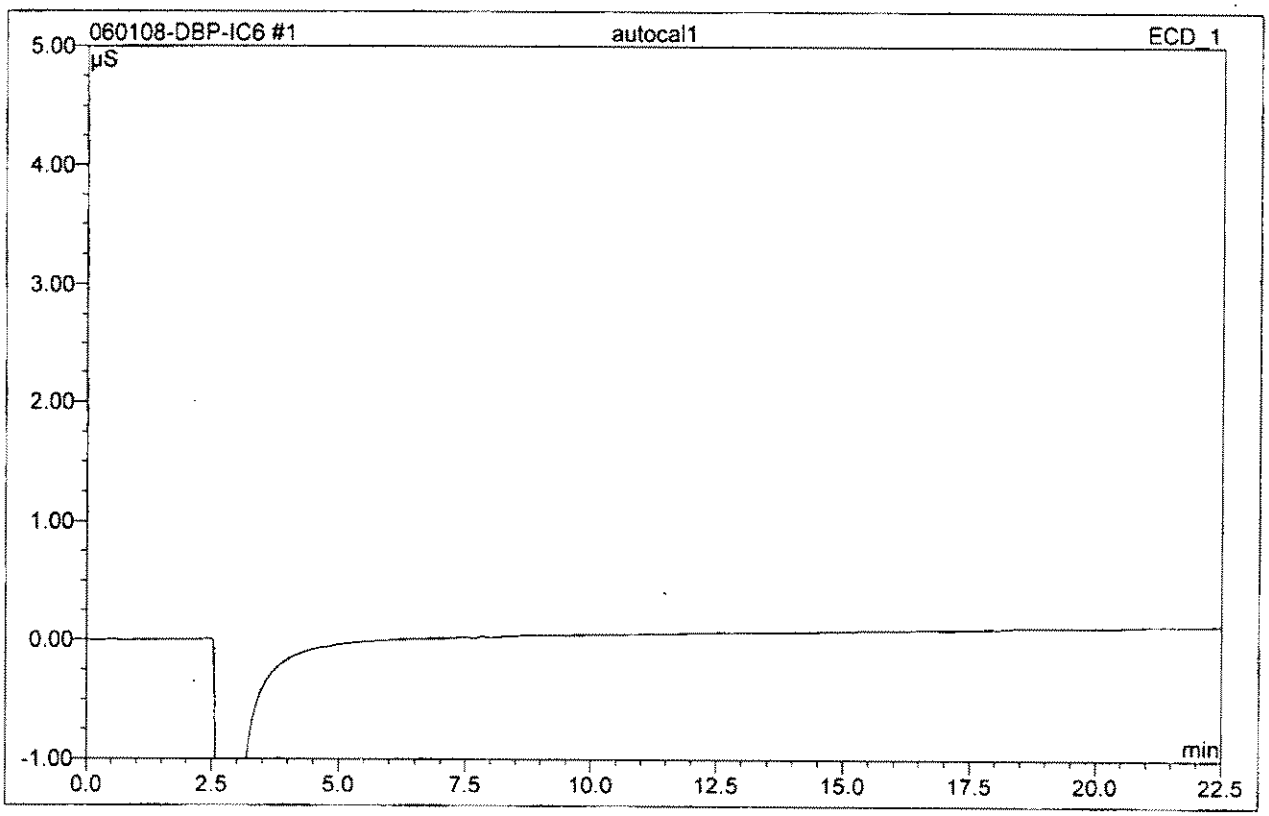
No.	Name	Sample ID	Dil. Factor	Type	Comment	Program
43	HCV	800/400/800	1.0000	Unknown	800/400/800	BRO3-LOW-2channel
44	CCB		1.0000	Unknown		BRO3-LOW-2channel

Sequence:	060108-DBP-IC6		
Operator:	clv		Printed: 6/4/2008 7:19:27 PM
Title:			
Datasource:	Dionex_USPAS2SDIO2		
Location:	IC\IC6_317_3001\2008\June		
Timebase:	IC-#6	Created:	6/1/2008 4:48:57 PM by clv
#Samples:	44	Last Update:	6/3/2008 3:34:19 PM by clv

No.	Name	Method	Status	Inj. Date/Time	*Analyst
43	HCV	DBP-Method	Finished	6/2/2008 11:25:02 AM	clv
44	CCB	DBP-Method	Finished	6/2/2008 11:50:17 AM	clv

1 autocal1

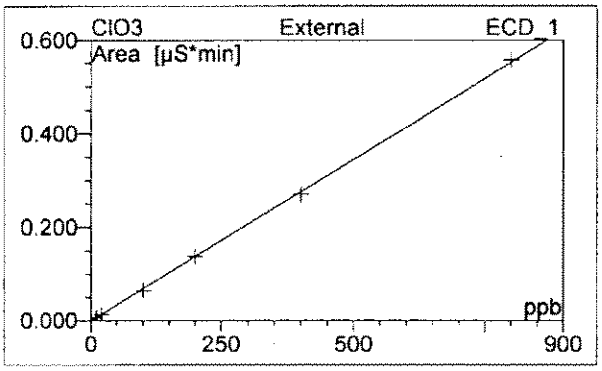
Sample Name:	**autocal1**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 13:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

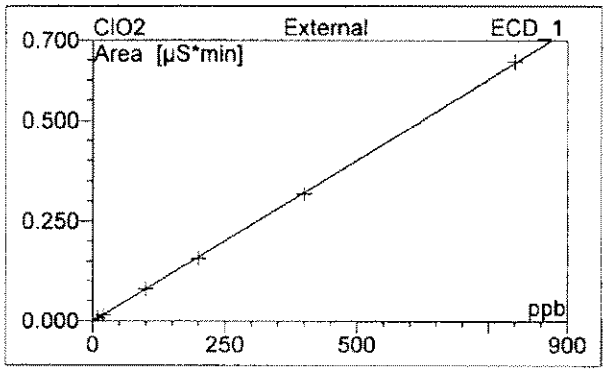


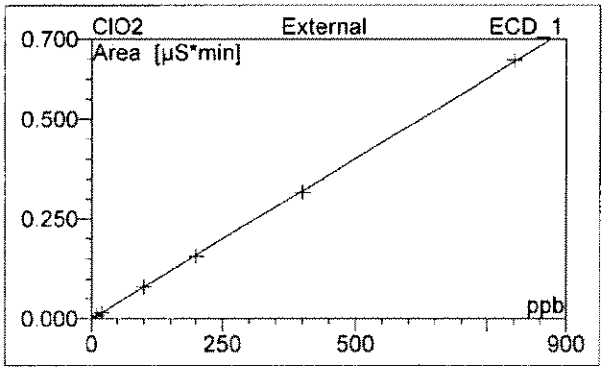
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

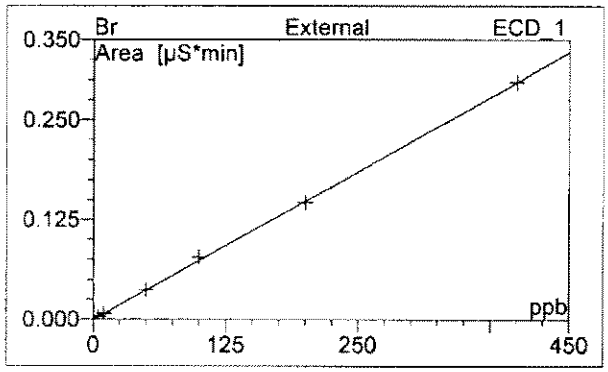
1 autocal1

Sample Name:	**autocal1**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 13:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**







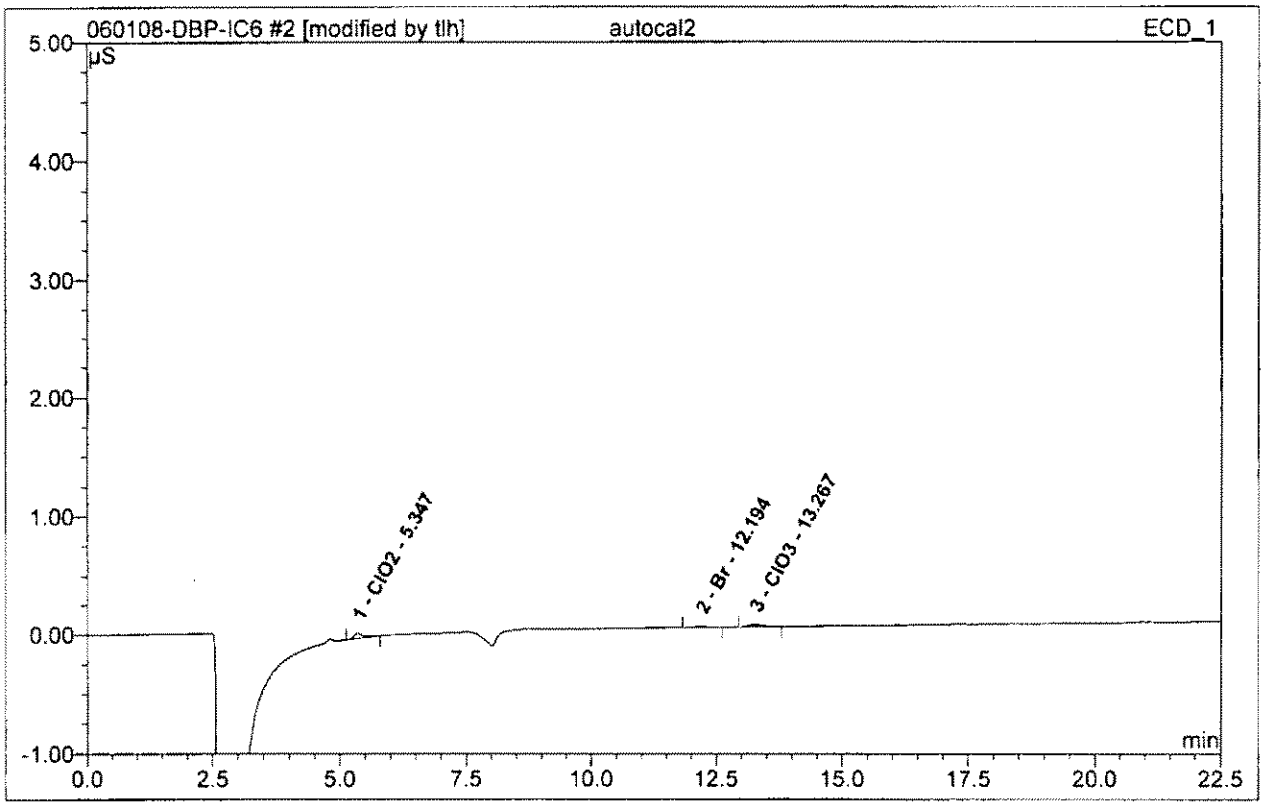


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
Average:					n.a.	n.a.	n.a.	n.a.

2 autocal2

S1-10/5/10

Sample Name:	**autocal2**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 13:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

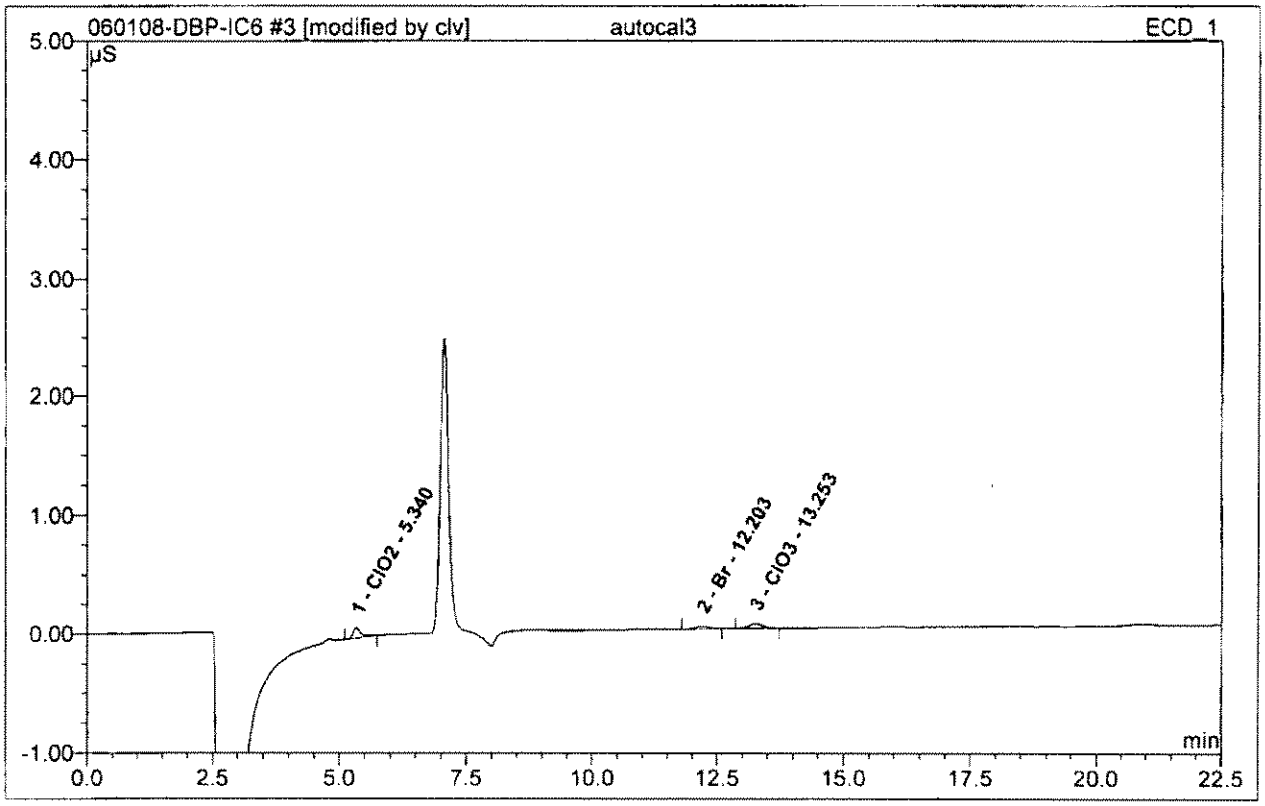


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.35	ClO2	0.045	0.008	45.65	9.936	BMB
2	12.19	Br	0.009	0.003	15.32	3.605	BMB*
3	13.27	ClO3	0.019	0.007	39.03	9.883	BMB*
Total:			0.073	0.017	100.00	23.424	

3 autocal3

S2-20/10/20

Sample Name:	**autocal3**	*Injection Volume:*	**1000.0**
Vial Number:	**336**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 13:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

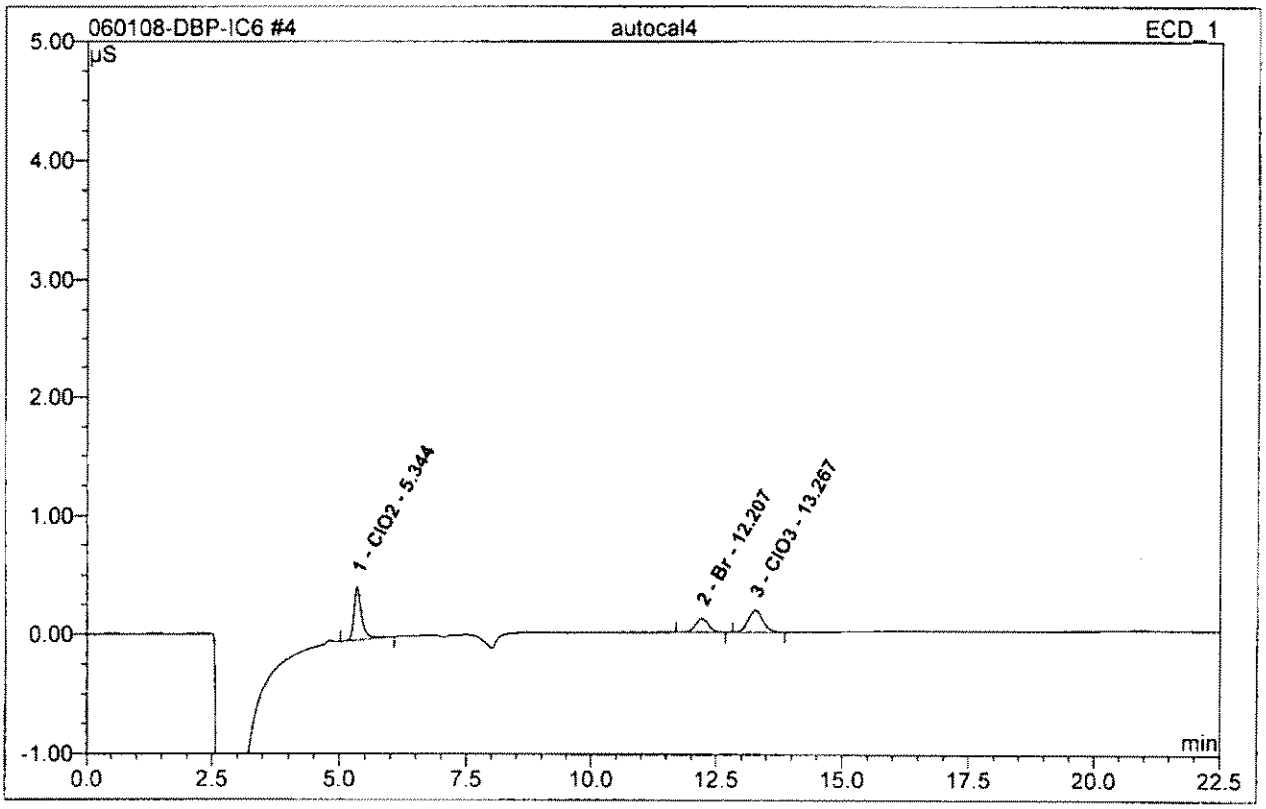


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	0.087	0.015	42.39	18.564	BMB*
2	12.20	Br	0.023	0.007	20.51	9.709	BMB
3	13.25	ClO3	0.037	0.013	37.09	18.899	BMB
Total:			0.147	0.035	100.00	47.172	

4 autocal4

S3-100/50/100

Sample Name:	**autocal4**	*Injection Volume:*	**1000.0**
Vial Number:	**337**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 14:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

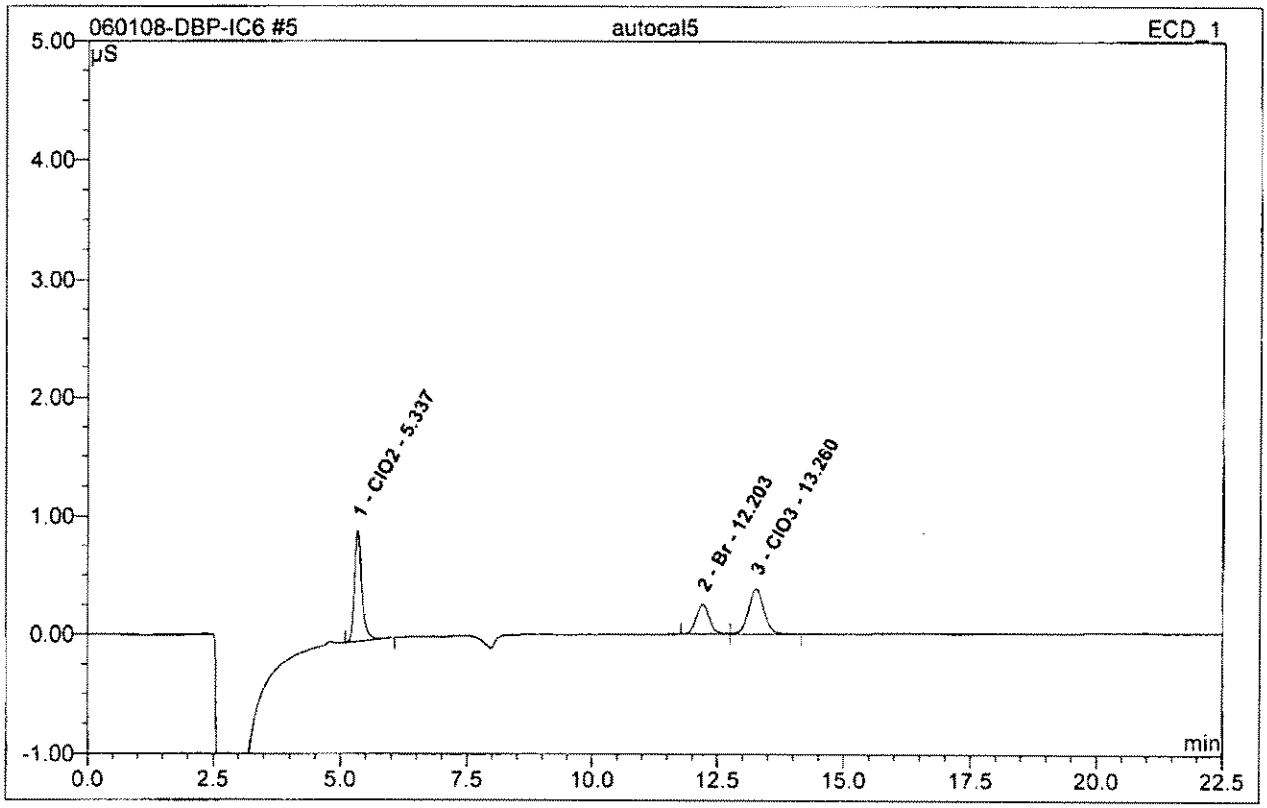


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	0.454	0.080	43.90	99.419	BMB
2	12.21	Br	0.119	0.037	20.40	49.949	BMB
3	13.27	ClO3	0.186	0.065	35.70	94.075	BMB
Total:			0.760	0.182	100.00	243.443	

5 autocal5

S4-200/100/200

Sample Name:	**autocal5**	*Injection Volume:*	**1000.0**
Vial Number:	**338**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 14:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

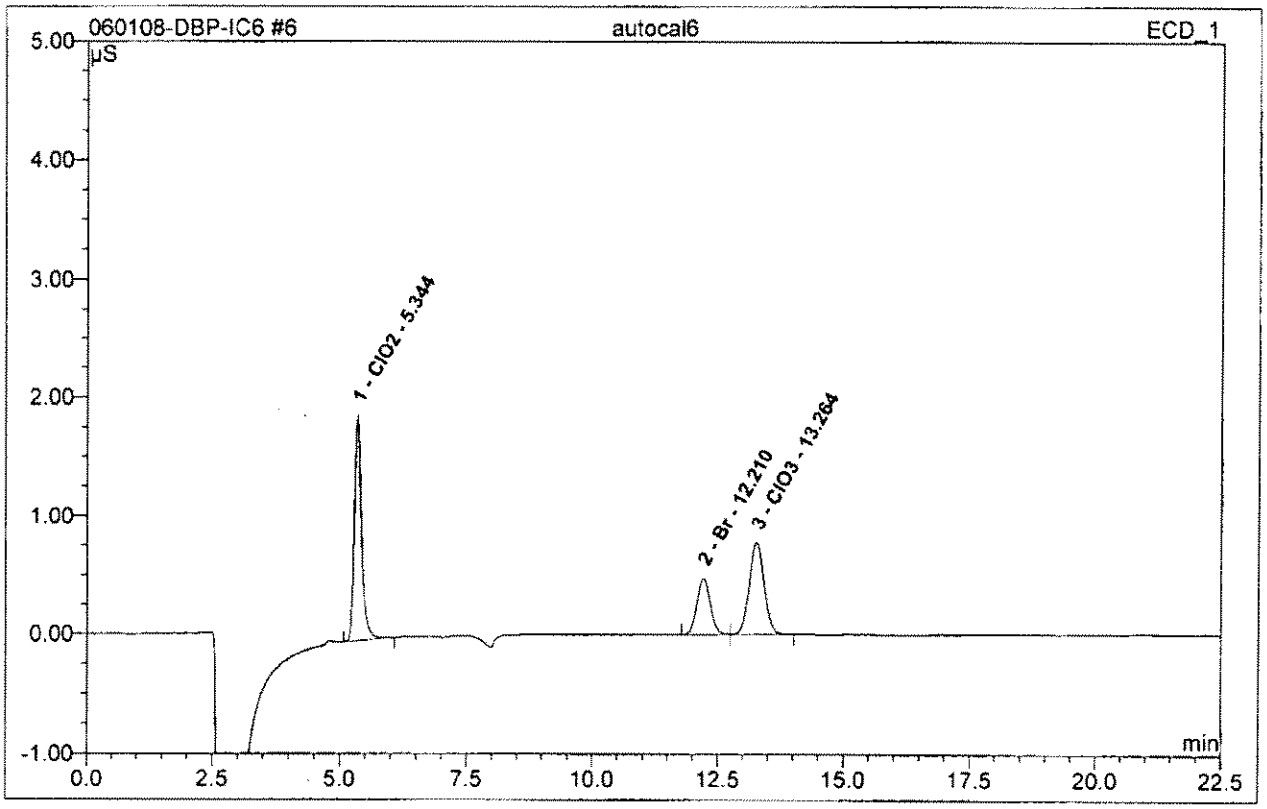


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	0.932	0.157	42.07	194.894	BMB
2	12.20	Br	0.252	0.078	20.99	105.140	BM
3	13.26	ClO3	0.385	0.138	36.94	199.108	MB
Total:			1.569	0.372	100.00	499.142	

6 autocal6

S5-400/200/400

Sample Name:	**autocal6**	*Injection Volume:*	**1000.0**
Vial Number:	**338**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 15:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

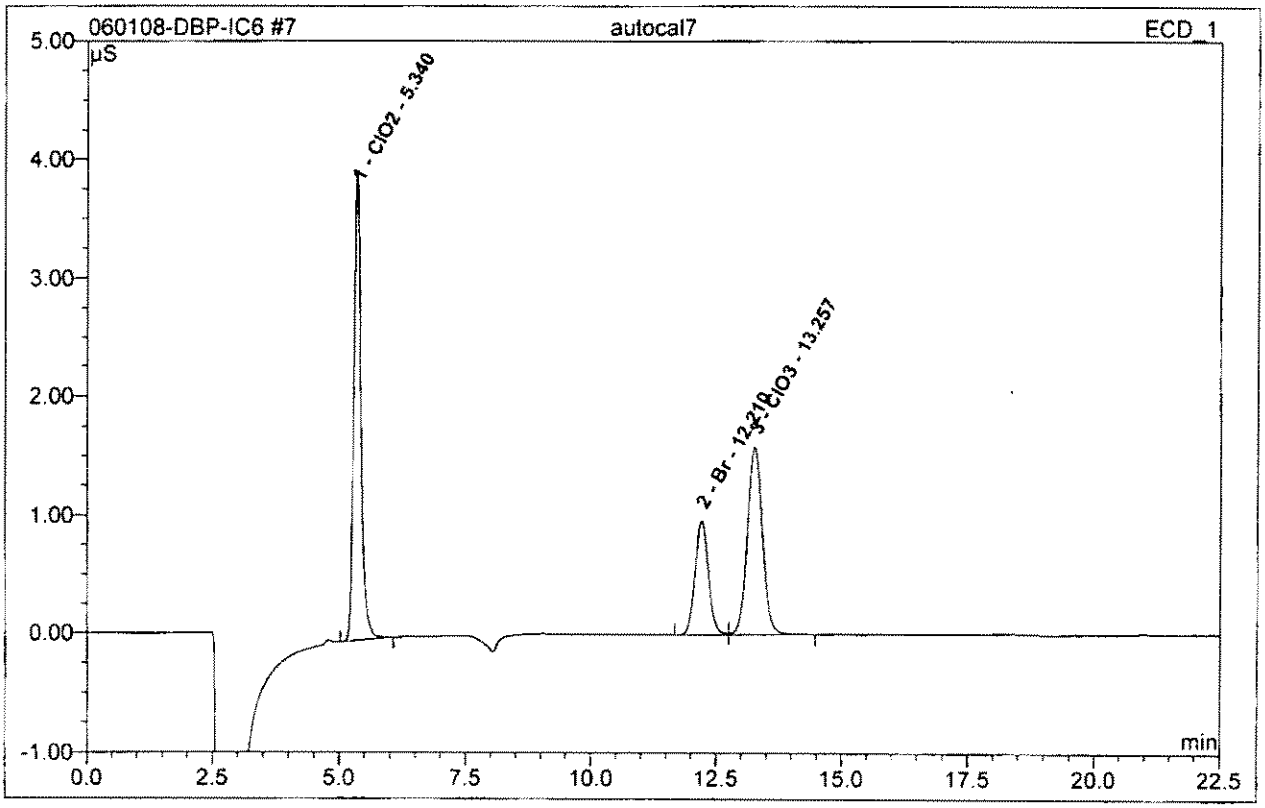


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	1.902	0.317	43.22	394.572	BMB
2	12.21	Br	0.477	0.147	20.03	197.729	BM
3	13.26	ClO3	0.776	0.270	36.75	390.368	MB
Total:			3.155	0.734	100.00	982.669	

7 autocal7

S6-800/400/800

Sample Name:	**autocal7**	*Injection Volume:*	**1000.0**
Vial Number:	**334**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 15:37**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

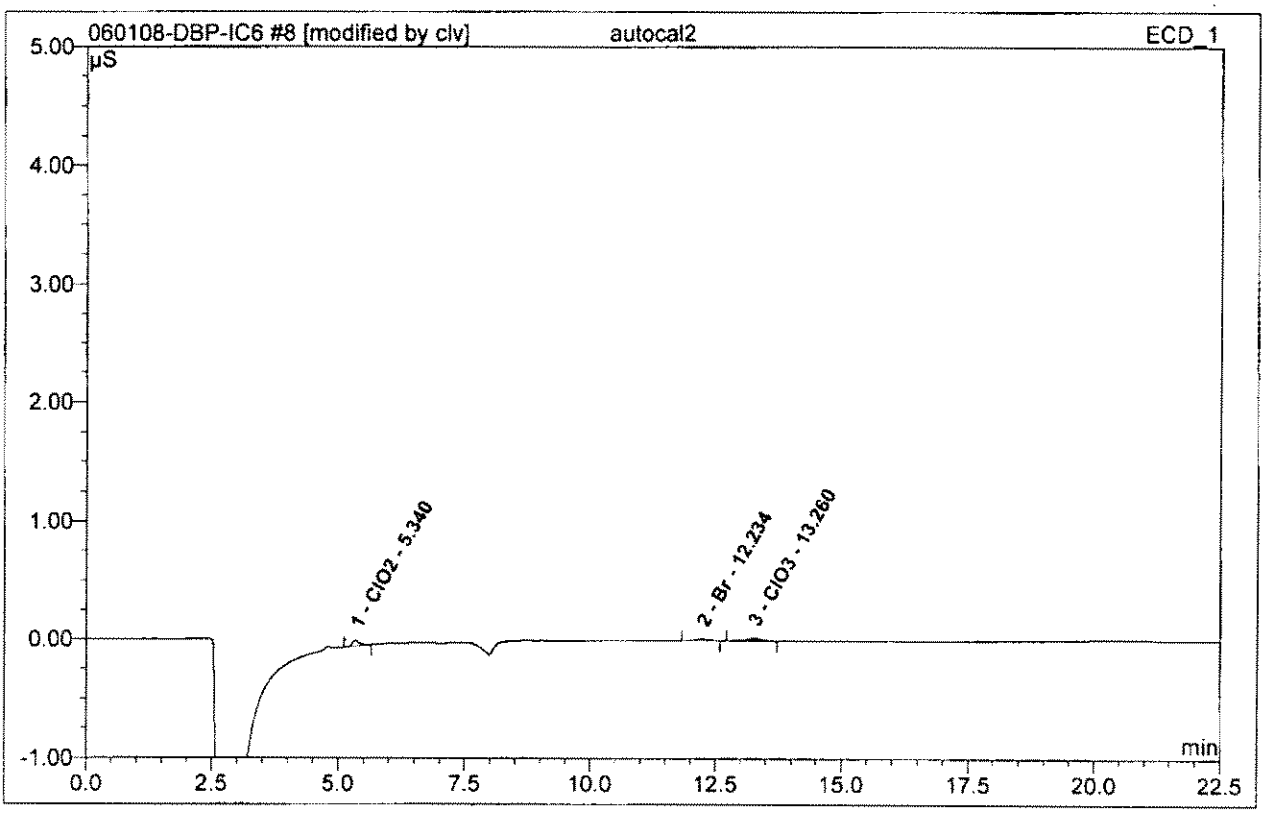


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	3.944	0.646	43.08	804.106	BMB
2	12.21	Br	0.964	0.297	19.82	399.864	BM
3	13.26	ClO3	1.585	0.557	37.10	805.802	MB
Total:			6.493	1.500	100.00	2009.772	

8 autocal2

S1-10/5/10

Sample Name:	**autocal2**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 16:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

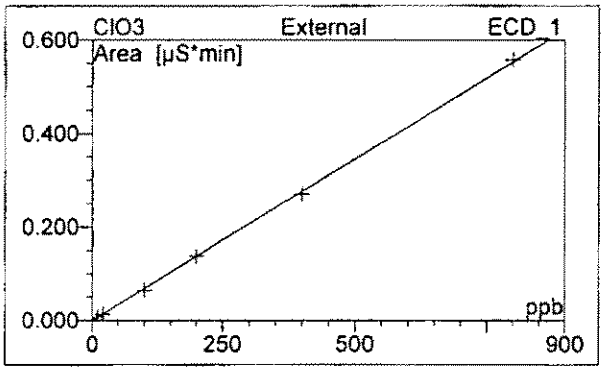


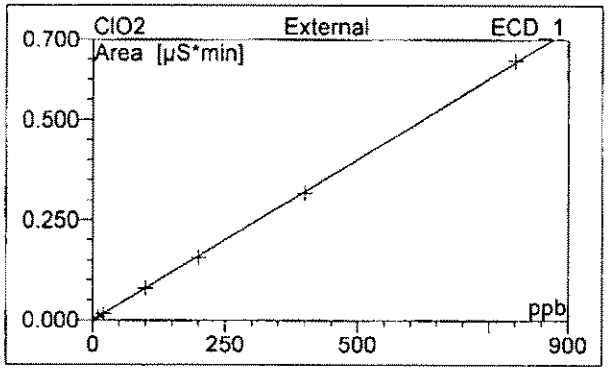
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.34	ClO2	0.046	0.008	40.95	9.438	BMB*
2	12.23	Br	0.011	0.004	20.08	5.002	BMB*
3	13.26	ClO3	0.020	0.007	38.97	10.450	BMB
Total:			0.077	0.019	100.00	24.891	

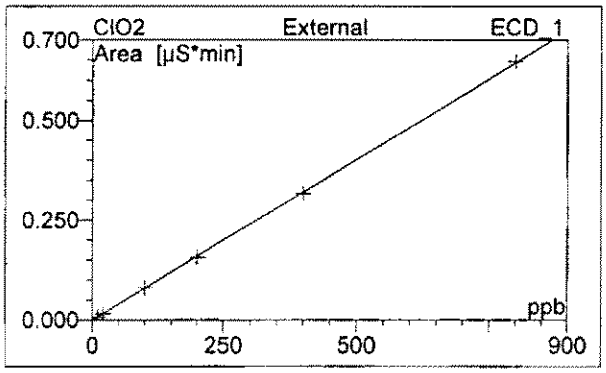
8 autocal2

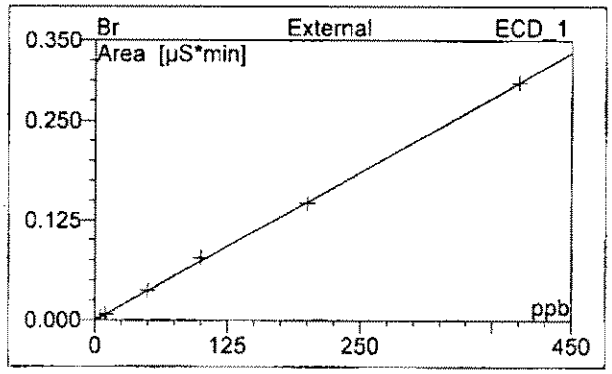
S1-10/5/10

Sample Name:	**autocal2**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**5/31/2008 16:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**







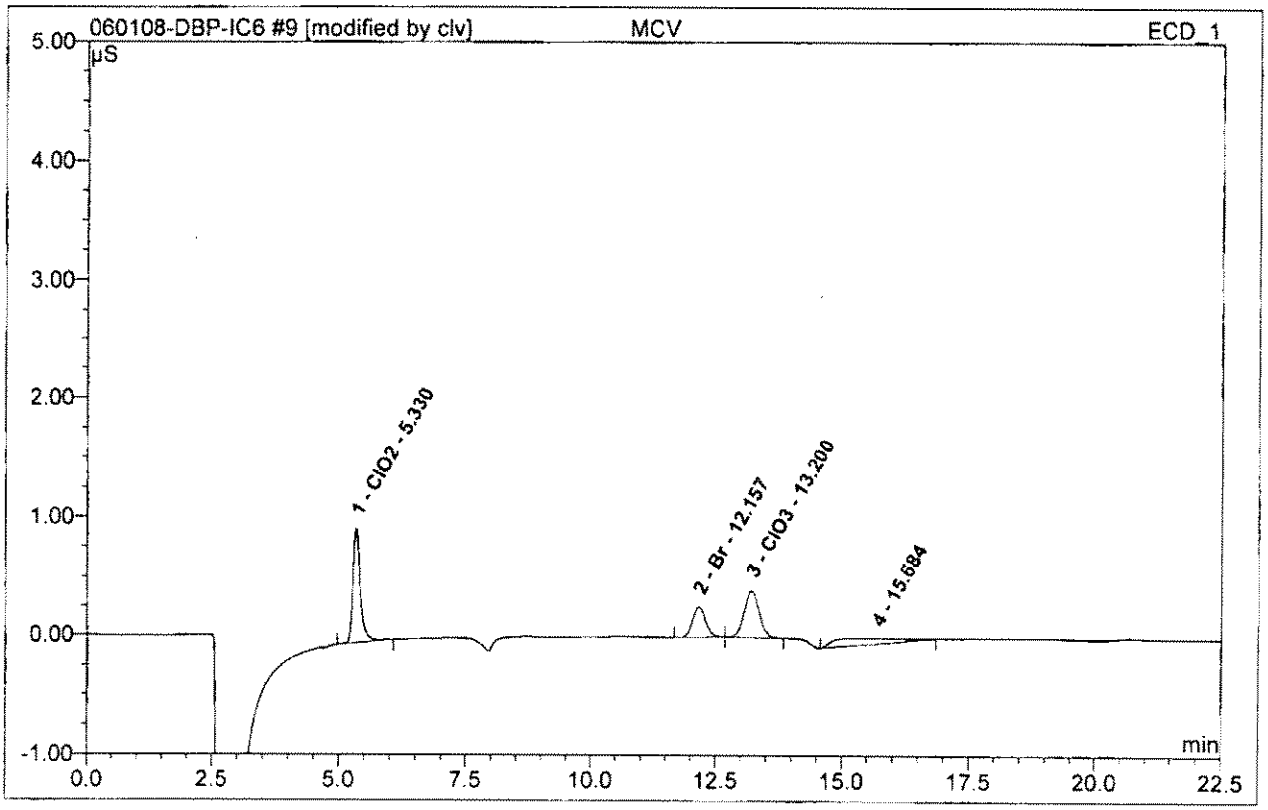


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	5.34	ClO2	Lin	6	99.9946	0.0000	0.0008	0.0000
2	12.23	Br	Lin	6	99.9869	0.0000	0.0007	0.0000
3	13.26	ClO3	Lin	6	99.9867	0.0000	0.0007	0.0000
Average:					99.9894	0.0000	0.0007	0.0000

9 MCV

200/100/200

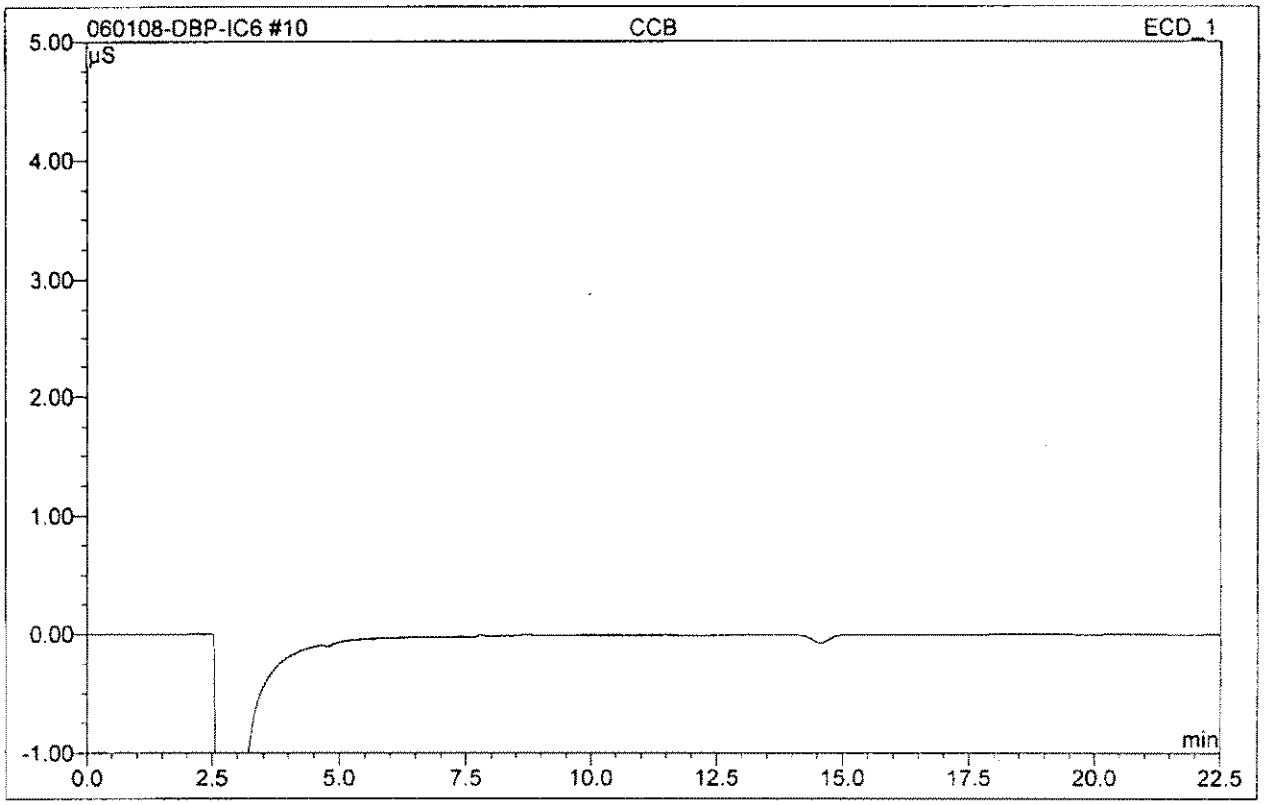
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**346**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/1/2008 21:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.33	ClO2	0.964	0.164	35.52	204.013	BMB
2	12.16	Br	0.259	0.078	16.96	105.312	BMb*
3	13.20	ClO3	0.400	0.138	29.98	200.355	bMB*
4	15.68	n.a.	0.044	0.081	17.54	n.a.	BMB
Total:			1.668	0.462	100.00	509.680	

10 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**336**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/1/2008 21:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

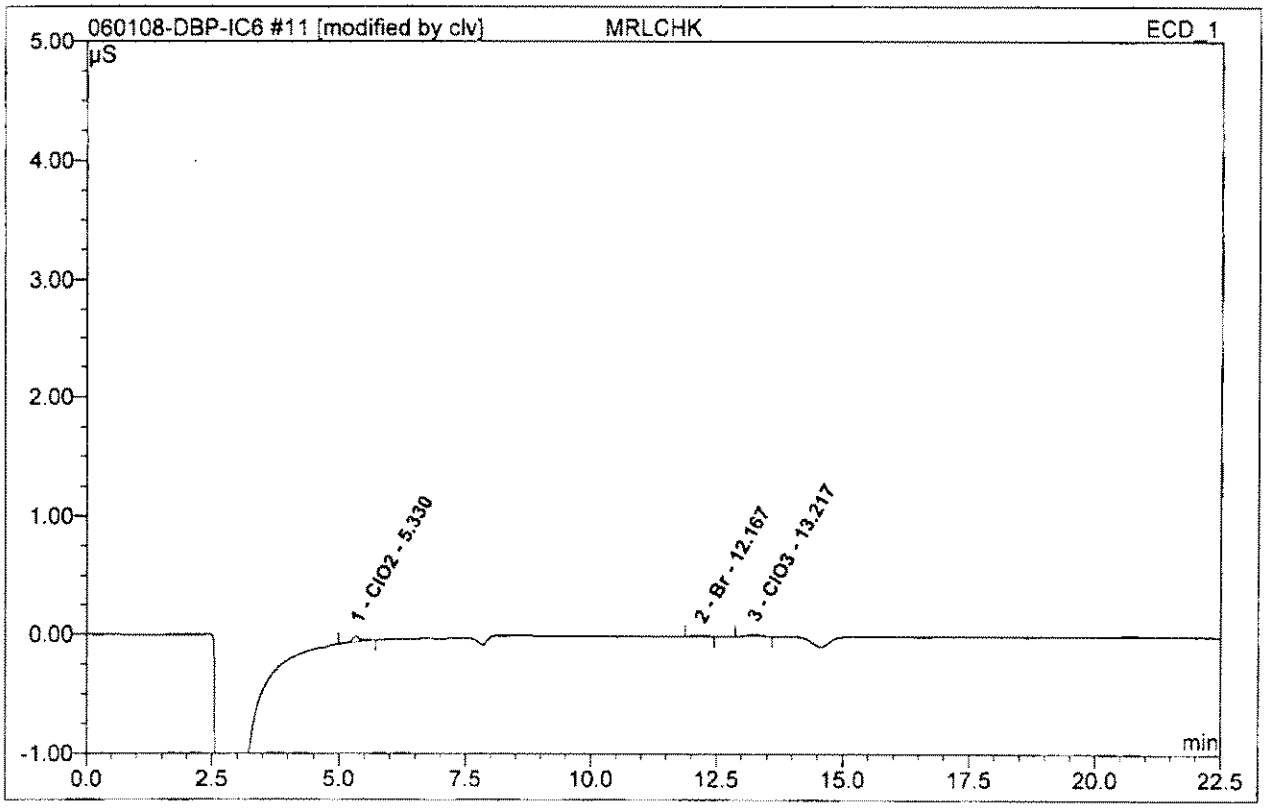


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

11 MRLCHK

S1-10/5/10

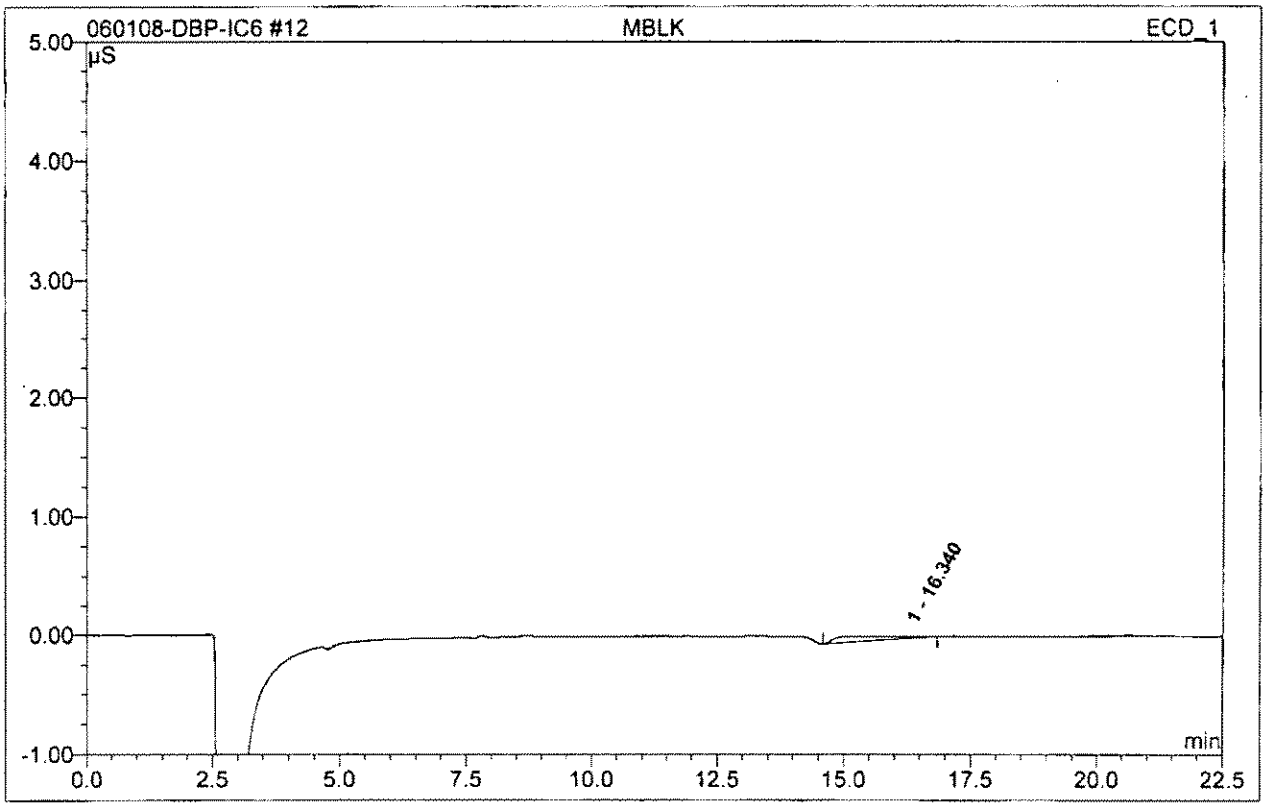
Sample Name:	**MRLCHK**	*Injection Volume:*	**1000.0**
Vial Number:	**338**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/1/2008 21:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.33	ClO2	0.049	0.009	49.19	10.936	BMB*
2	12.17	Br	0.011	0.003	15.86	3.811	BMB*
3	13.22	ClO3	0.019	0.006	34.95	9.042	BMB
Total:			0.078	0.018	100.00	23.789	

12 MBLK

Sample Name:	**MBLK**	*Injection Volume:*	**1000.0**
Vial Number:	**340**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/1/2008 22:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

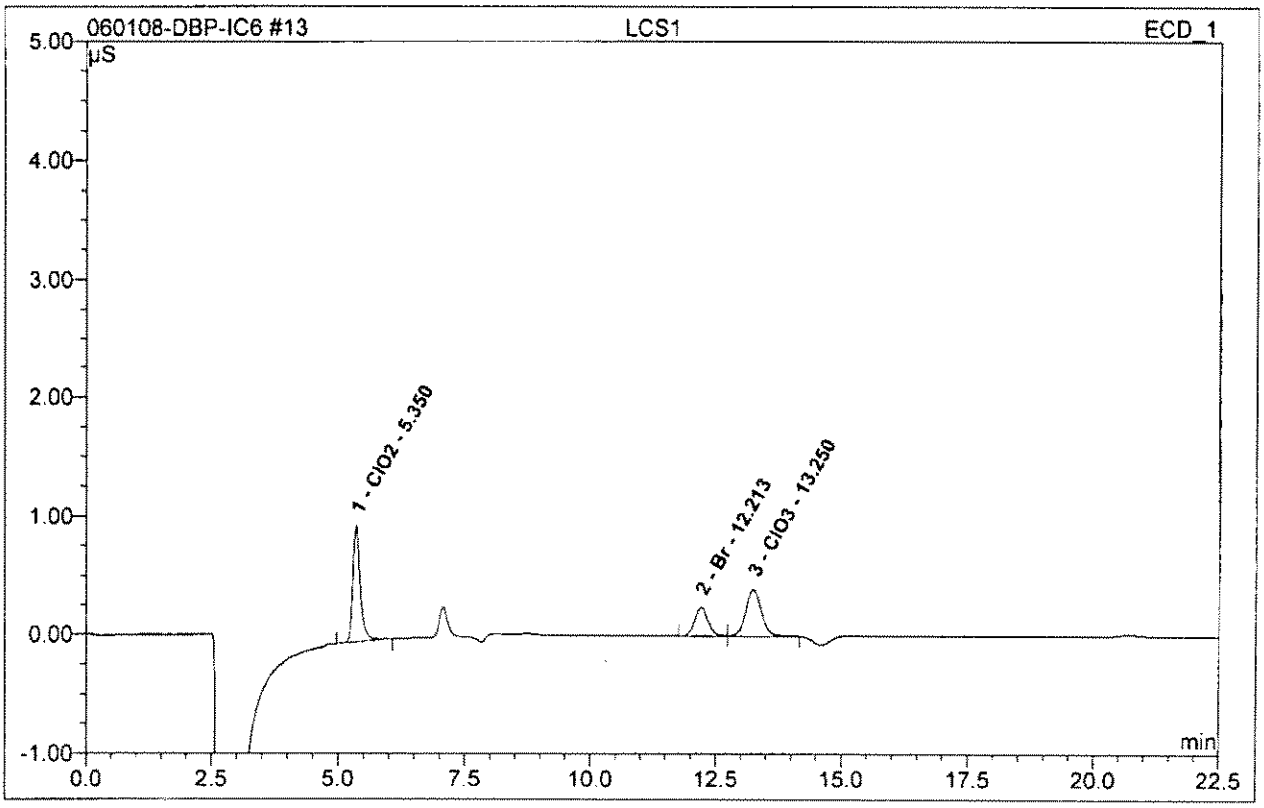


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	16.34	n.a.	0.016	0.060	100.00	n.a.	BMB
Total:			0.016	0.060	100.00	0.000	

13 LCS1

200/100/200

Sample Name:	**LCS1**	*Injection Volume:*	**1000.0**
Vial Number:	**336**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/1/2008 22:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

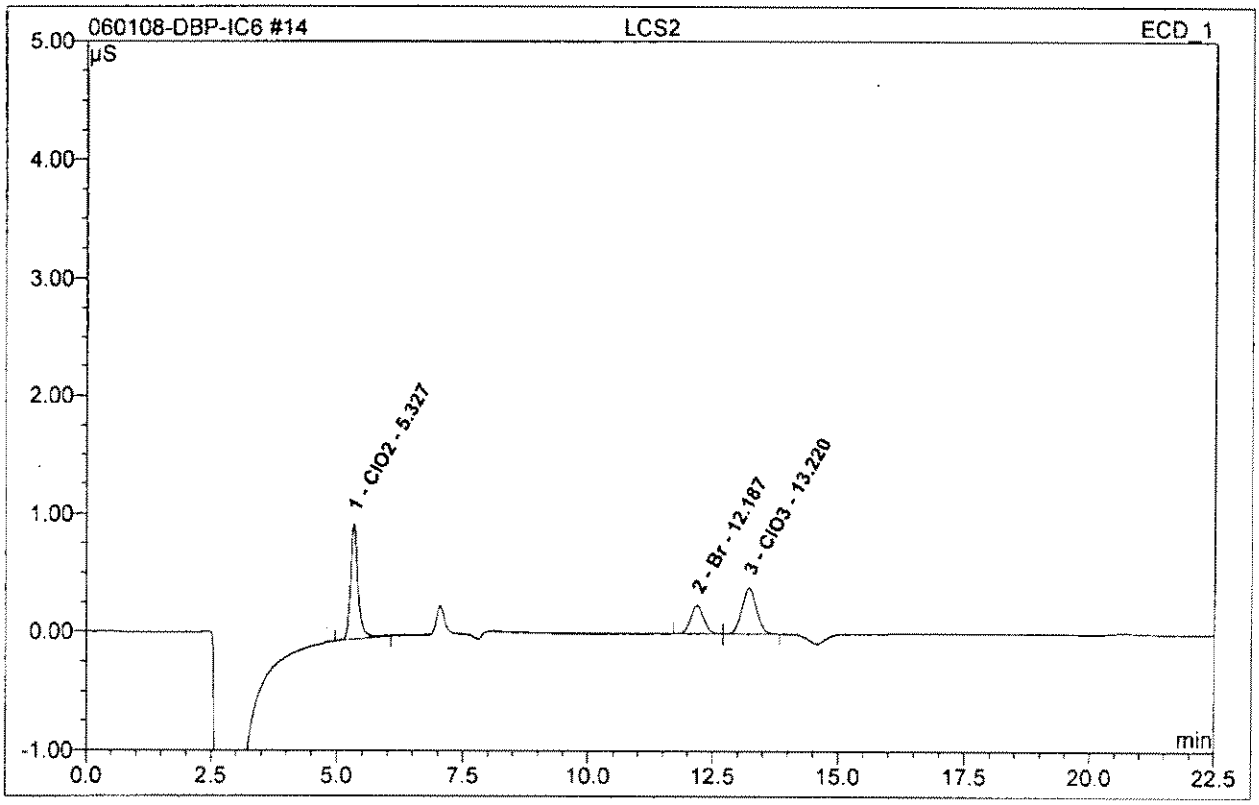


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.35	ClO2	0.979	0.166	42.78	206.687	BMB
2	12.21	Br	0.244	0.076	19.62	102.506	BM
3	13.25	ClO3	0.401	0.146	37.60	211.395	MB
Total:			1.623	0.388	100.00	520.587	

14 LCS2

200/100/200

Sample Name:	**LCS2**	*Injection Volume:*	**1000.0**
Vial Number:	**337**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/1/2008 23:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

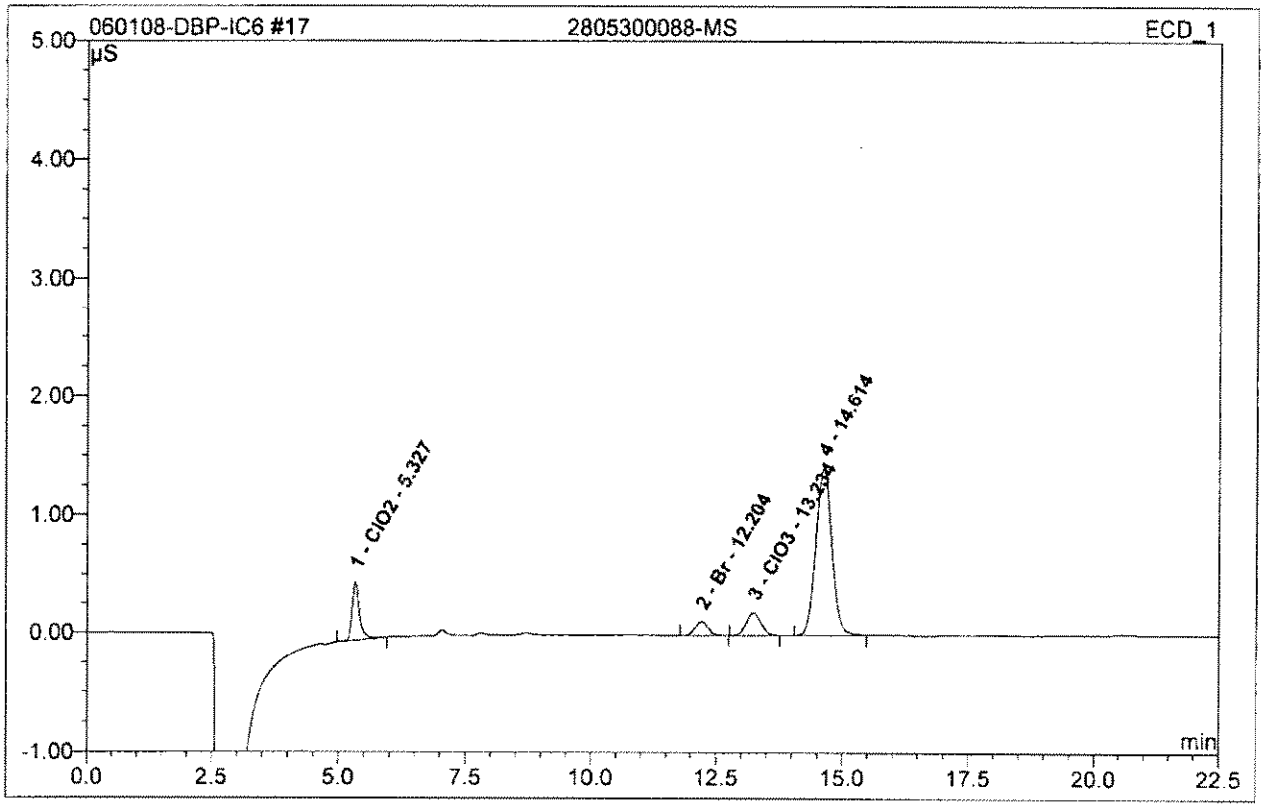


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.33	ClO2	0.977	0.166	44.21	207.002	BMB
2	12.19	Br	0.240	0.074	19.61	99.239	BM
3	13.22	ClO3	0.392	0.136	36.19	197.146	MB
Total:			1.609	0.376	100.00	503.387	

17 2805300088-MS

100/50/100

Sample Name:	**2805300088-MS**	*Injection Volume:*	**1000.0**
Vial Number:	**575**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 0:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

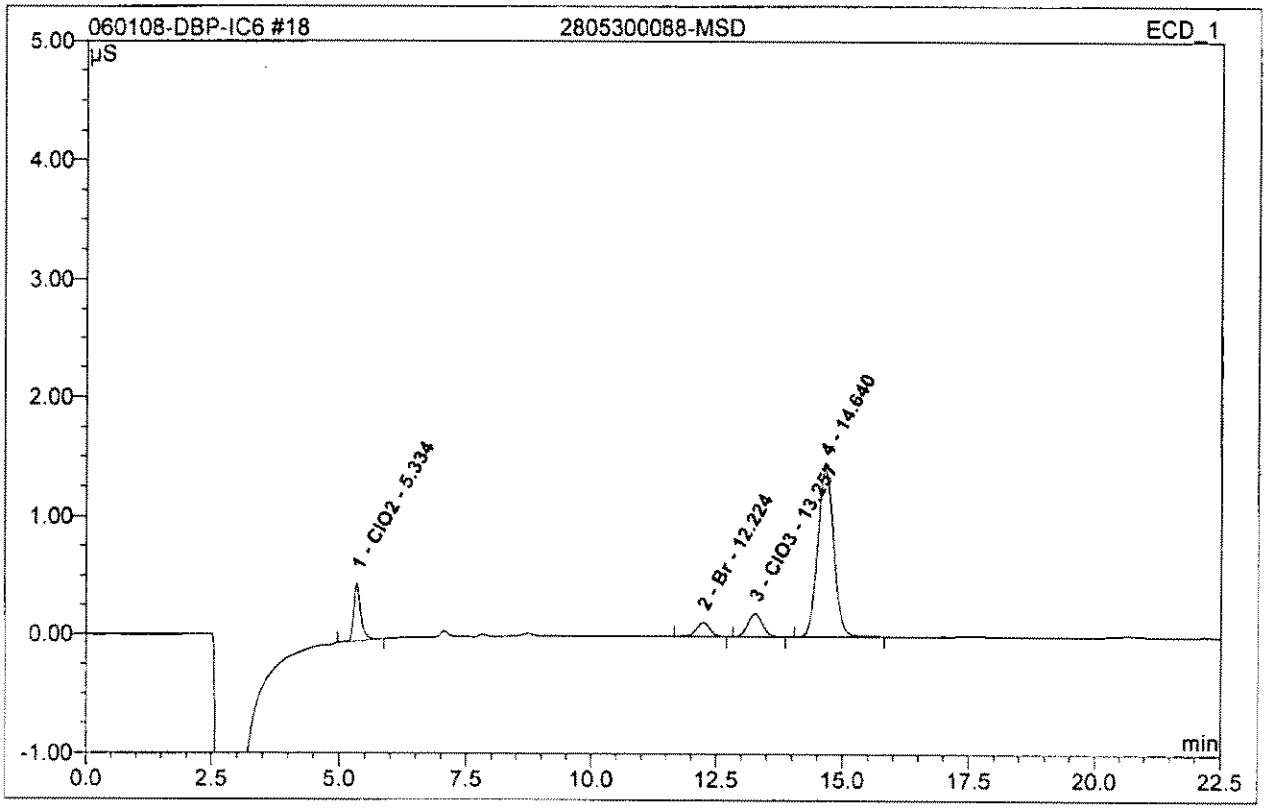


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.33	ClO2	0.497	0.080	11.39	99.737	BMB
2	12.20	Br	0.118	0.036	5.14	48.660	BMB
3	13.23	ClO3	0.195	0.067	9.48	96.614	BMB
4	14.61	n.a.	1.410	0.521	74.00	n.a.	BMB
Total:			2.220	0.704	100.00	245.010	

18 2805300088-MSD

100/50/100

Sample Name:	**2805300088-MSD**	*Injection Volume:*	**1000.0**
Vial Number:	**575**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 0:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

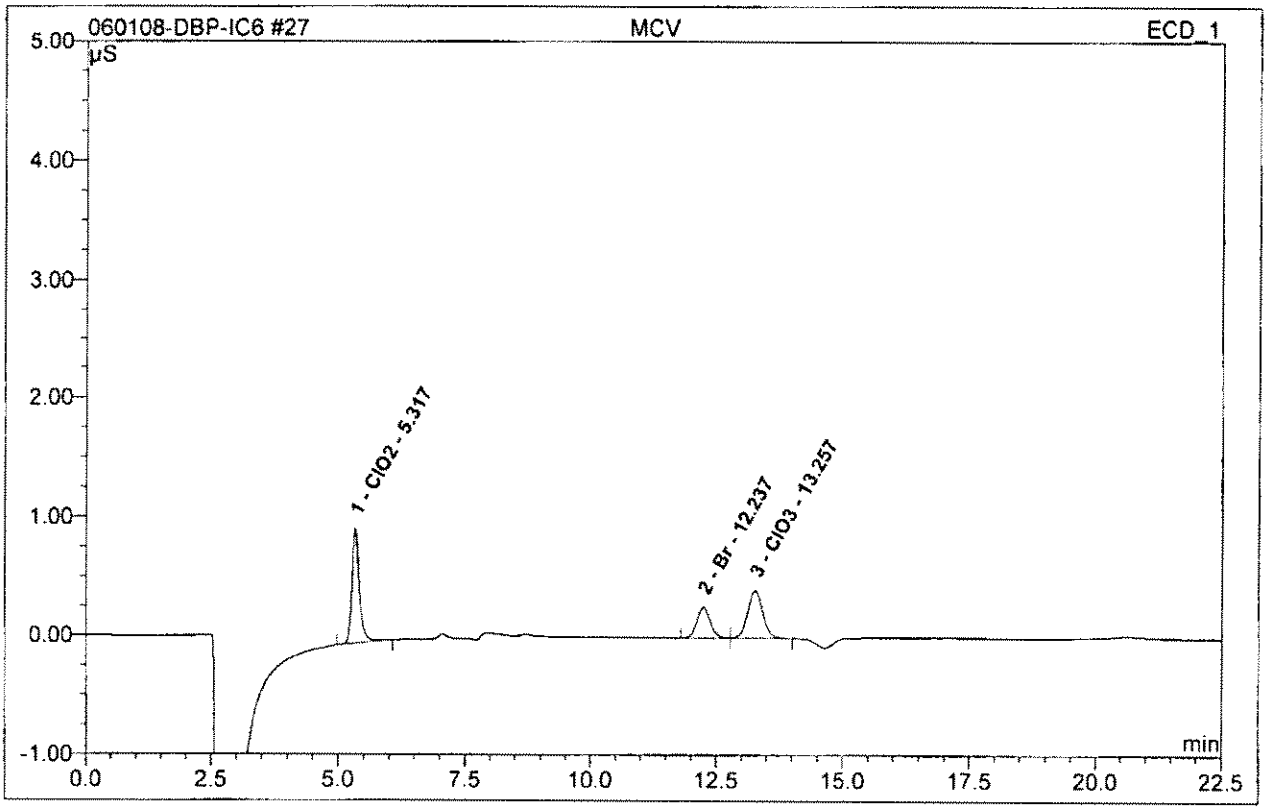


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.33	ClO2	0.497	0.079	11.17	98.812	BMB
2	12.22	Br	0.120	0.038	5.30	50.720	BMB
3	13.26	ClO3	0.198	0.068	9.61	98.913	BMB
4	14.64	n.a.	1.418	0.526	73.93	n.a.	BMB
Total:			2.233	0.711	100.00	248.444	

27 MCV

200/100/200

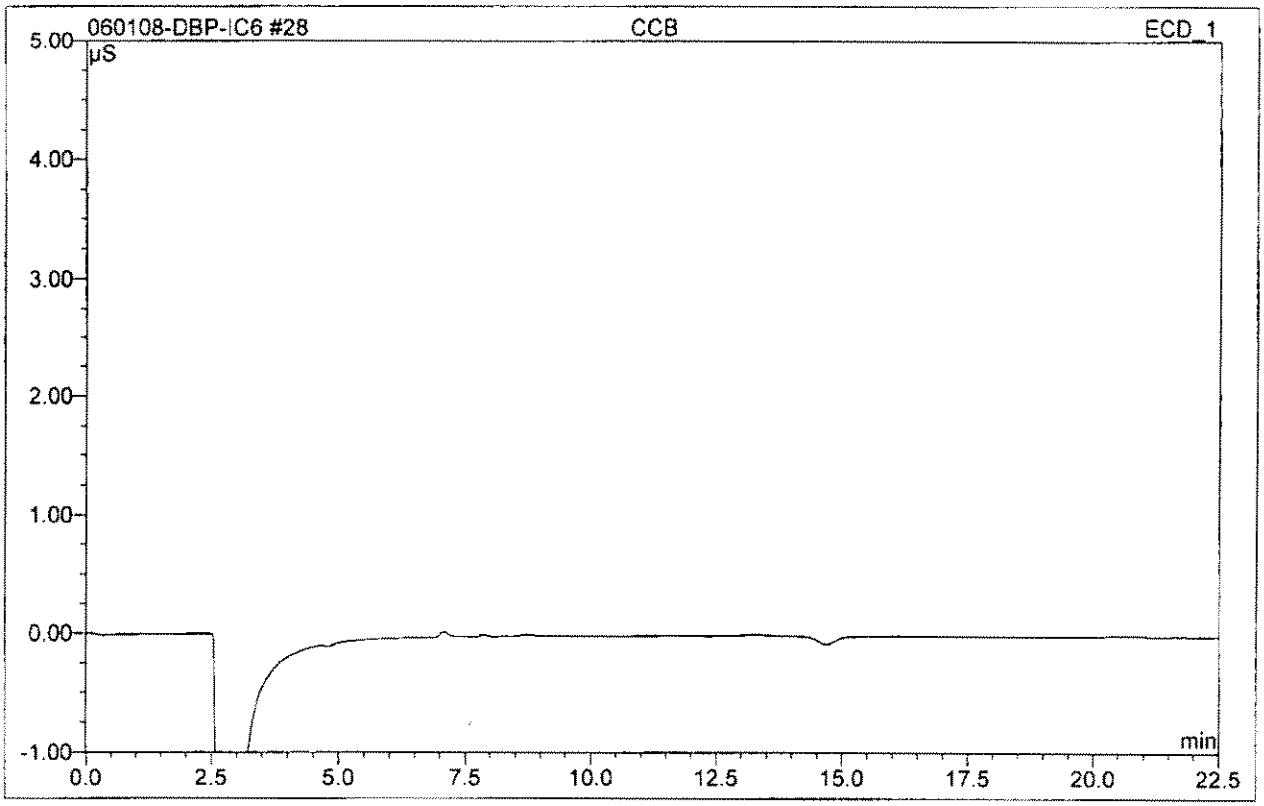
Sample Name:	**MCV**	*Injection Volume:*	**1000.0**
Vial Number:	**344**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 4:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.32	ClO2	0.969	0.165	42.42	205.702	BMB
2	12.24	Br	0.262	0.082	20.97	109.945	BM
3	13.26	ClO3	0.406	0.143	36.61	206.544	MB
Total:			1.637	0.390	100.00	522.191	

28 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 5:06**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

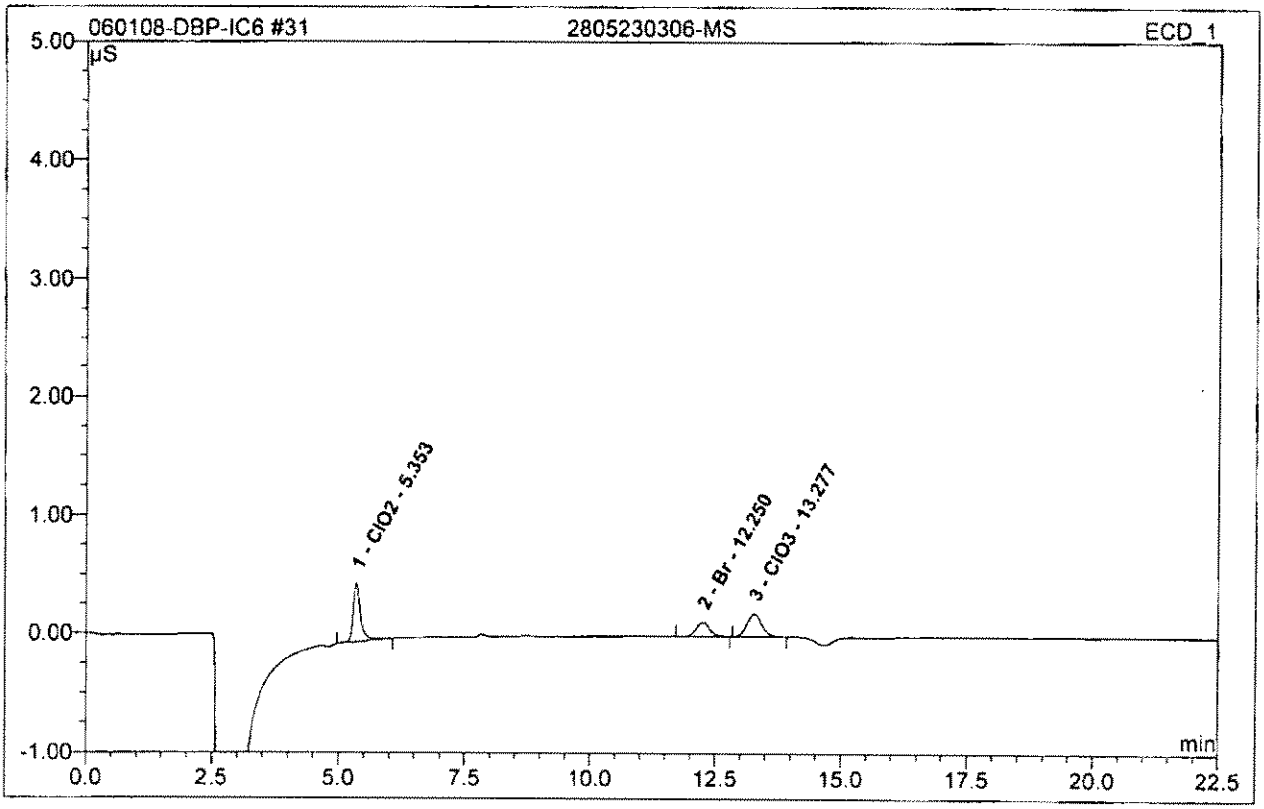


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

31 2805230306-MS

100/50/100

Sample Name:	**2805230306-MS**	*Injection Volume:*	**1000.0**
Vial Number:	**339**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 6:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

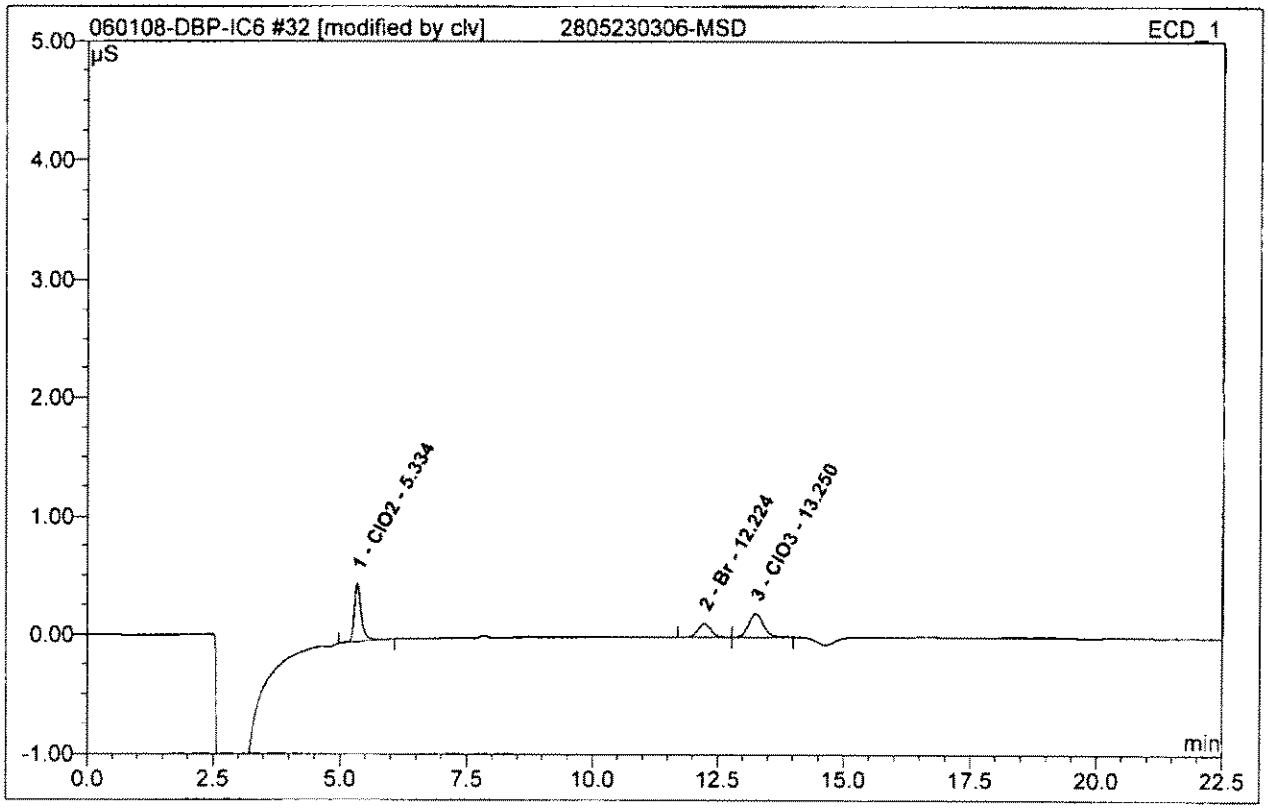


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.35	ClO2	0.499	0.083	44.47	103.380	BMB
2	12.25	Br	0.119	0.037	19.99	50.224	BMB
3	13.28	ClO3	0.193	0.066	35.55	96.147	BMB
Total:			0.811	0.187	100.00	249.750	

32 2805230306-MSD

100/50/100

Sample Name:	**2805230306-MSD**	*Injection Volume:*	**1000.0**
Vial Number:	**339**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 6:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

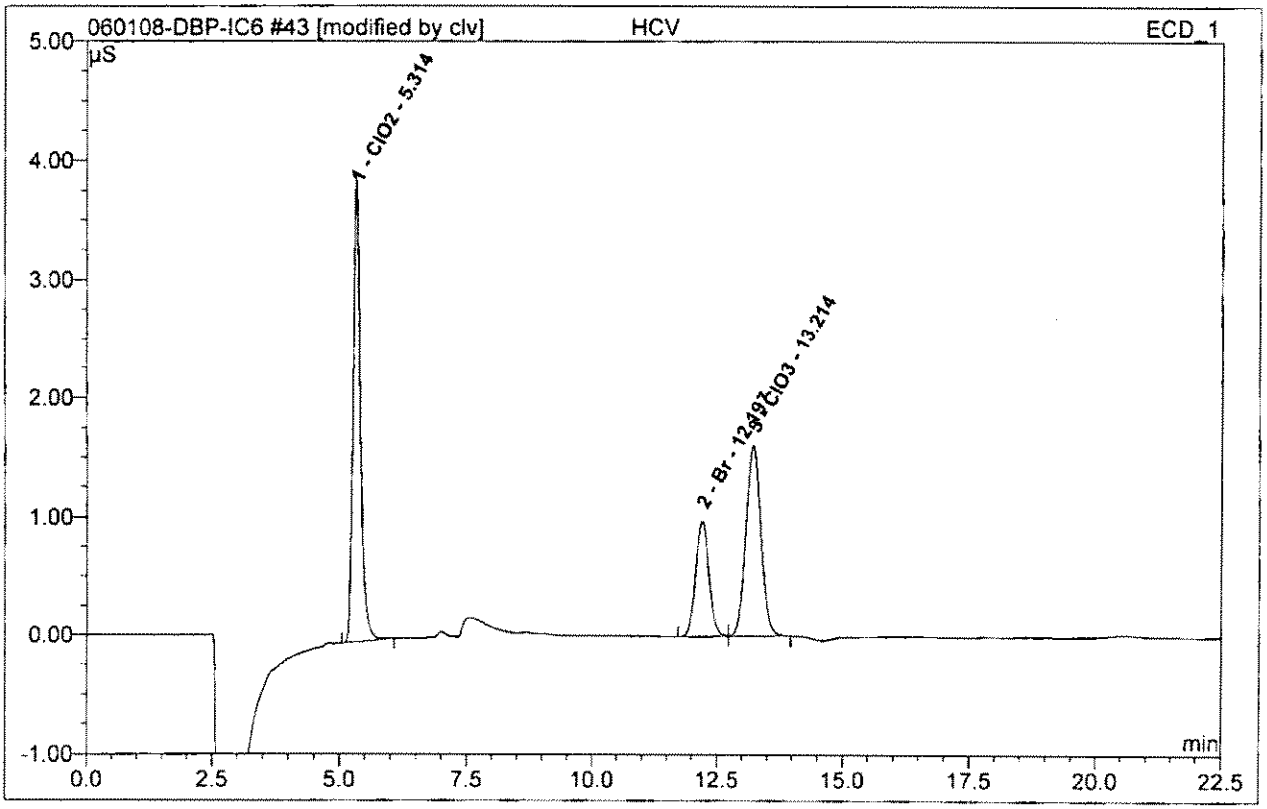


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.33	ClO2	0.499	0.083	44.39	102.932	BMB
2	12.22	Br	0.115	0.035	18.87	47.299	BM *
3	13.25	ClO3	0.195	0.068	36.74	99.125	MB*
Total:			0.810	0.186	100.00	249.356	

43 HCV

800/400/800

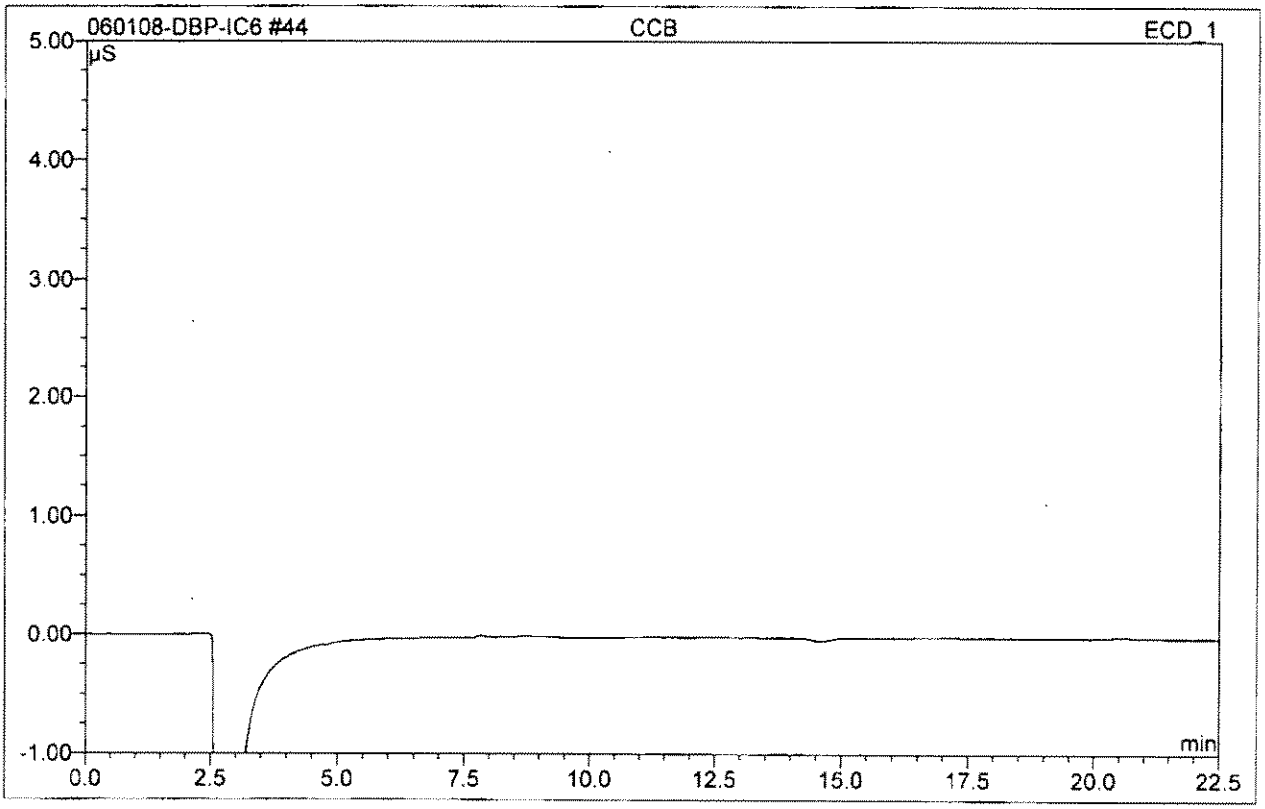
Sample Name:	**HCV**	*Injection Volume:*	**1000.0**
Vial Number:	**339**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 11:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.31	ClO2	3.928	0.657	43.34	817.839	BMB
2	12.20	Br	0.975	0.301	19.87	405.258	BM *
3	13.21	ClO3	1.611	0.558	36.79	807.651	MB*
Total:			6.513	1.516	100.00	2030.748	

44 CCB

Sample Name:	**CCB**	*Injection Volume:*	**1000.0**
Vial Number:	**335**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 11:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

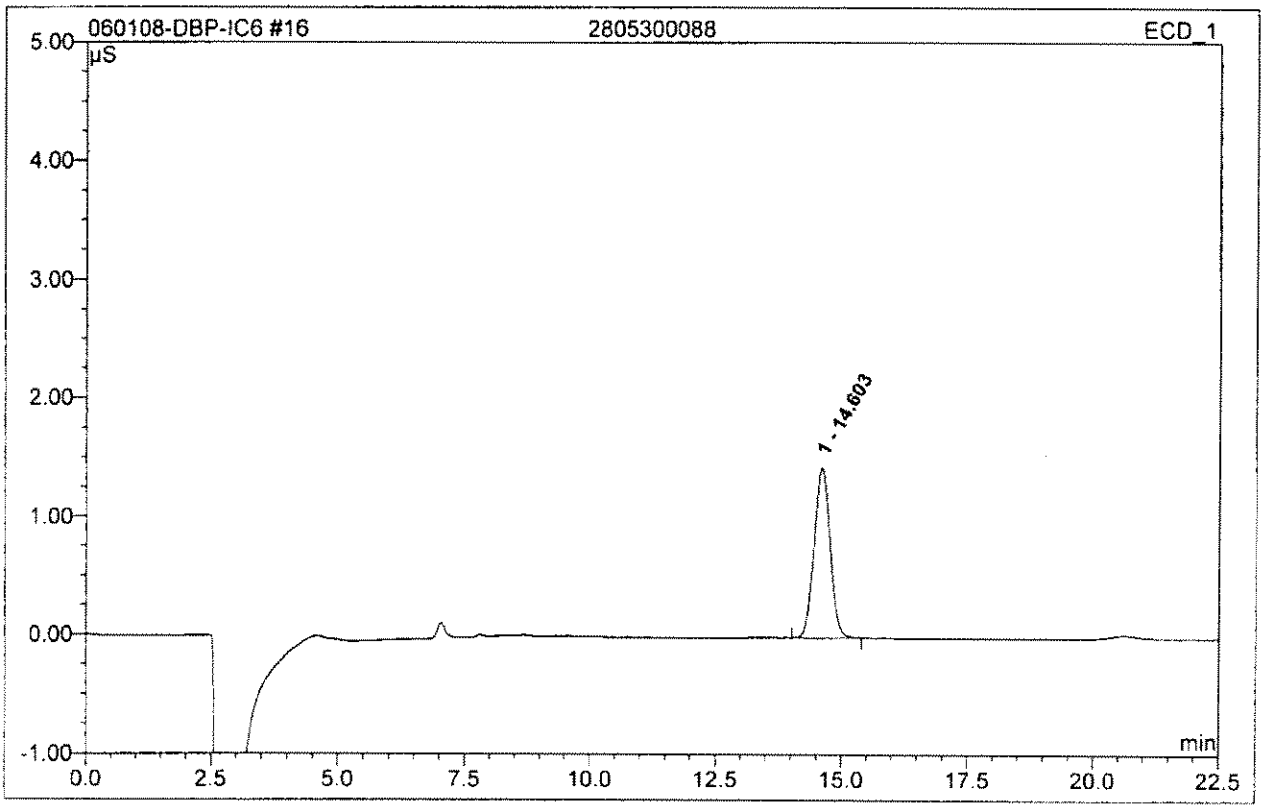


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

16 2805300088

CLO2

Sample Name:	**2805300088**	*Injection Volume:*	**1000.0**
Vial Number:	**574**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 0:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

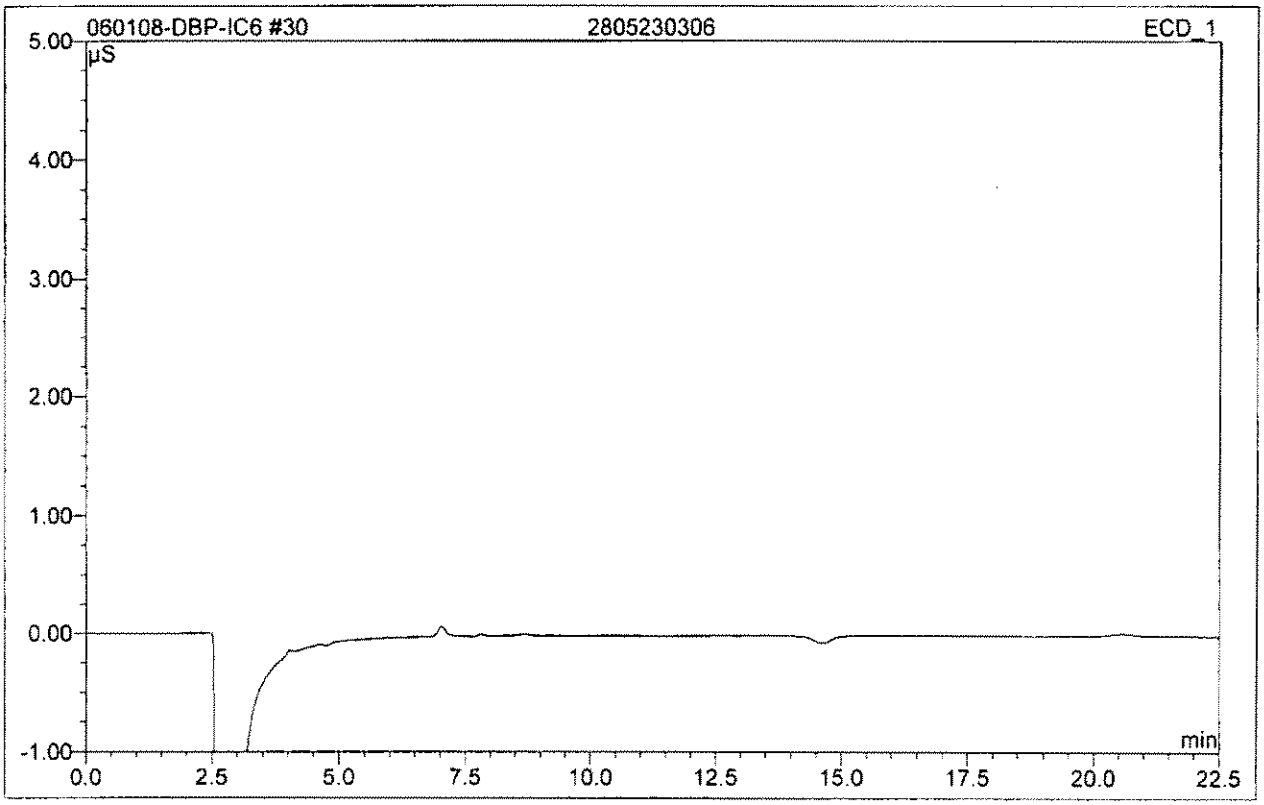


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	14.60	n.a.	1.436	0.525	100.00	n.a.	BMB
Total:			1.436	0.525	100.00	0.000	

30 2805230306

BR

Sample Name:	**2805230306**	*Injection Volume:*	**1000.0**
Vial Number:	**338**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**1.0000**
Recording Time:	**6/2/2008 5:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

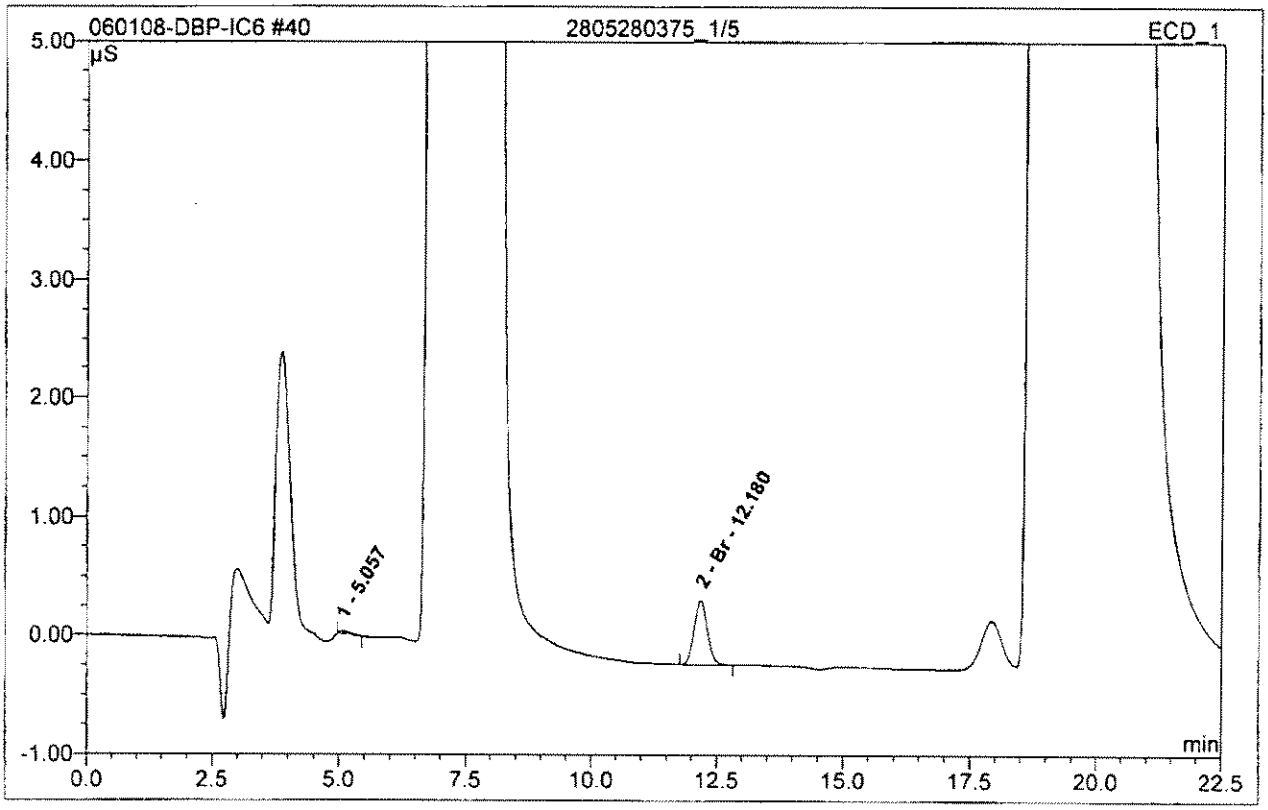


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
Total:			0.000	0.000	0.00	0.000	

40 2805280375_1/5

CLO3

Sample Name:	**2805280375_1/5**	*Injection Volume:*	**1000.0**
Vial Number:	**339**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**5.0000**
Recording Time:	**6/2/2008 10:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**

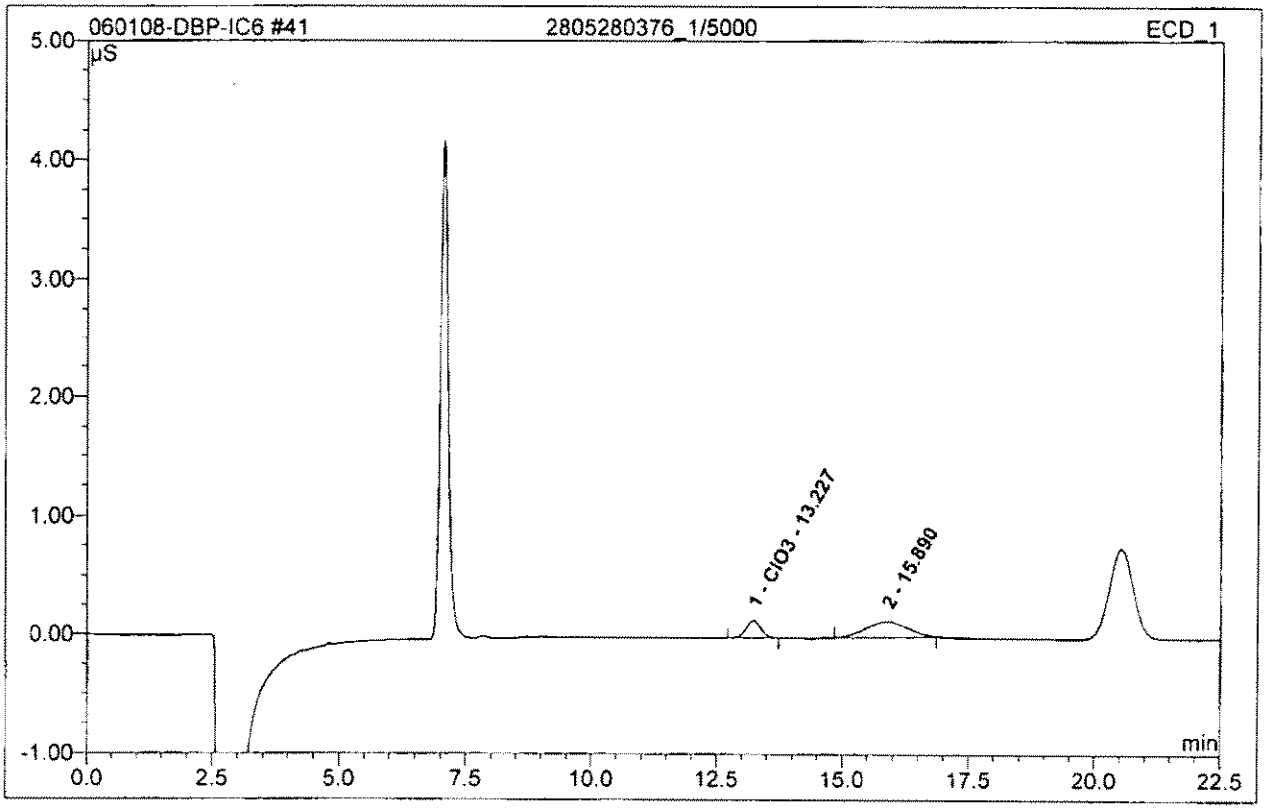


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	5.06	n.a.	0.022	0.006	3.63	n.a.	BMB
2	12.18	Br	0.543	0.164	96.37	1101.347	BMB
Total:			0.564	0.170	100.00	1101.347	

41 2805280376_1/5000

CLO3

Sample Name:	**2805280376_1/5000**	*Injection Volume:*	**1000.0**
Vial Number:	**576**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**BRO3-LOW-2channel**	*Bandwidth:*	**n.a.**
Quantif. Method:	**DBP-Method**	*Dilution Factor:*	**5000.0000**
Recording Time:	**6/2/2008 10:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**22.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppb	Type
1	13.23	ClO3	0.147	0.050	28.41	362177.898	BMB
2	15.89	n.a.	0.131	0.126	71.59	n.a.	BMB
Total:			0.278	0.176	100.00	362177.898	

Standard Preparation Worksheet & Certificate of Analysis

Reagent Documentation

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

Reagent #: 201861
By: TH
Matrix: aq
Amount: 3x100 vials
Lot #: 106061

Component	Comment	Standard	Concentration
	EE# B1010		

Comment:

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

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

Component	Comment	Standard	Concentration
	IV# ICNN031-1		

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: TH
Matrix: aq
Amount: 125mL
Lot #: A2-CLOX01044

Component	Comment	Standard	Concentration
	IV# ICCL031-1		

Comment:

R20180H rec'd 5-28-08

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

1996 Lenox Avenue, Suite 4
Lakewood, New Jersey 08701 USA
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** **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

R201805
Rec'd 5-28-08

INORGANIC™ VENTURES

CERTIFICATE OF ANALYSIS

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

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements

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

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

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

Component	Comment	Standard	Concentration
	IV# ICCL021-1		

Comment:

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

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

Component	Comment	Standard	Concentration
	IV# ICBE1-1		

Comment:

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

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

Component	Comment	Standard	Concentration
	EmD# CX1054-1		

Comment:

Reagent Preparation Documentation

Page:_____

Reagent: ClO4 IPC 25 ppb
Date Received/Prepped: 52908 / 061108 / / / /
Date Expired: 112908 / 091108 / / / /
Manufacturer:
Storage Condition: Room TEMP

MW #: CLV080529
By: ch
Matrix: A
Amount: 100 ml
Lot #:

Component	Comment	Standard	Concentration
1.5 ml 10,000 ppm	CO3	MLE 080310.7	10,000 ppm
1.5 ml 10,000 "	SO4	MLE 080312-5	10,000 "
1.5 ml 10,000 "	Cl	MLE 080312-6	10,000 "
2.5 ml 1,000 ppb	ClO4 Int Cal	MLE 080312-4	1,000 ppb

100 ml soln.

Comment:

Reagent: DBP Init. Cal. Std 10/5/10 ppm
Date Received/Prepped: 053109 / / / / /
Date Expired: 113108 / / / / /
Manufacturer:
Storage Condition: Room TEMP.

MW #: CLV080531-1
By: ch
Matrix: A
Amount: 100 ml
Lot #:

Component	Comment	Standard	Concentration
50 ml 100,000 ppm	EDA	TLH 071029-1	100,000 ppm
0.5 ml 1,000 ppm	Br EXP 06/01/09	R201865	1,000 ppm
1.0 ml 1,000 ppm	ClO_2 EXP 06/01/09	R201864	1,000 ppm
1.0 ml 1,000 ppm	ClO_3 EXP 06/01/09	R201863	1,000 ppm

100 ml soln.

Comment:

Reagent: DBP Si/MDL/M12V 10/5/10 ppb
Date Received/Prepped: 053109 / / / / /
Date Expired: 113108 / / / / /
Manufacturer:
Storage Condition: Room TEMP

MW #: CLV080531-2
By: ch
Matrix: A
Amount: 100 ml
Lot #:

Component	Comment	Standard	Concentration
50 ml 100,000 ppm	EDA	TLH 071029-1	100,000 ppm
0.1 ml 10/5/10 ppb	Int Cal	CLV080531-1	10/5/10 ppb

100 ml soln.

Comment:

Reagent Preparation Documentation

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Reagent: DBP S2 20/10/20 ppb
Date Received/Prepped: 053108/ / / / /
Date Expired: 913109/ / / / /
Manufacturer:
Storage Condition: ROOM TEMP

MW #: CLV080531-3
By: ch
Matrix: A
Amount: 100 ml
Lot #:

Component	Comment	Standard	Concentration
50 ml	EDA > 100 ml Sol.	TLH071029-1	100.00 ppb
0.2 ml	Int Cal >	CLV080531-1	10/5/10 ppb

Comment:

Reagent: DBP S3 100/50/100 ppb
Date Received/Prepped: 053108/ / / / /
Date Expired: 113108/ / / / /
Manufacturer:
Storage Condition: Room Temp

MW #: CLV080531-4
By: ch
Matrix: A
Amount: 100 ml
Lot #:

Component	Comment	Standard	Concentration
50 ml	EDA > 100 ml Sol	TLH071029-1	100.00 ppm
1.0 ml	Int Cal >	CLV080531-1	10/5/10 ppm

Comment:

Reagent: DBP SA/MCV 20/10/20 ppb
Date Received/Prepped: 053108/ / / / /
Date Expired: 113108/ / / / /
Manufacturer:
Storage Condition: ROOM TEMP

MW #: CLV080531-5
By: ch
Matrix: A
Amount: 100 ml
Lot #:

Component	Comment	Standard	Concentration
50 ml	EDA > 100 ml Sol	TLH071029-1	100.00 ppm
2.0 ml	ICS >	CLV080531-1	10/5/10 ppm

Comment:

Reagent Preparation Documentation

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Reagent: DBP S5 400/400/400 ppb
MW #: CW080531-6
Date Received/Prepped: 053108 / / / / /
By: ch
Date Expired: 113108 / / / / /
Matrix: A
Manufacturer:
Amount: 100 ml
Storage Condition: Room Temp
Lot #:

Component	Comment	Standard	Concentration
50 ml	EDA > 100 ml Soln	TCH071029-1	100,000 ppm
4.0 ml	ICSS	CW080531-1	10/5/10 ppm

Comment:

Reagent: DBP S6 800/400/800 ppb
MW #: CW080531-7
Date Received/Prepped: 053108 / / / / /
By: ch
Date Expired: 113108 / / / / /
Matrix: A
Manufacturer:
Amount: 100 ml
Storage Condition: Room Temp
Lot #:

Component	Comment	Standard	Concentration
50 ml	EDA > 100 ml Soln	TCH071029-1	100,000 ppm
8.0 ml	ICSS	CW080531-1	10/5/10 ppm

Comment:

Reagent: MCT 7 (1000 ppm Anions)
MW #: SER080826-11
Date Received/Prepped: 8/26/08 / / / / /
By: SER
Date Expired: 10/28/08 / / / / /
Matrix: Aq
Manufacturer: NA
Amount: 100 ml
Storage Condition: Room temp
Lot #: NA

Component	Comment	Standard	Concentration
Oil Cal Stock Soln	2.5 ml brought up to 100 ml w/ DI	SER080728-3	25 ppb
10000 ppm SO4	10 ml	SER080826-2	1000 ppm
10000 ppm CO3	10 ml	SER080826-3	1000 ppm
10000 ppm Cl	10 ml	SER080826-4	1000 ppm
		8/26/08	

Comment: