Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3052104.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd3.i/21may10.b/310q0520a.m
Misc Info: 200ppbv(200pbv)

Calibration Date: 21-MAY-2010
Calibration Time: 16:20
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	299578	179747	419409	288234	-3.79
97 1,4-Difluorobenze	1131467	678880	1584054	1079972	-4.55
144 Chlorobenzene-d5	975911	585547	1366275	911962	-6.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	4.85	4.52	5.18	4.85	0.01
97 1,4-Difluorobenze	5.76	5.43	6.09	5.76	0.01
144 Chlorobenzene-d5	8.24	7.91	8.57	8.24	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/21may10.b/3052104.d

Date : 21-MAY-2010 17:00

Client ID: Level 7

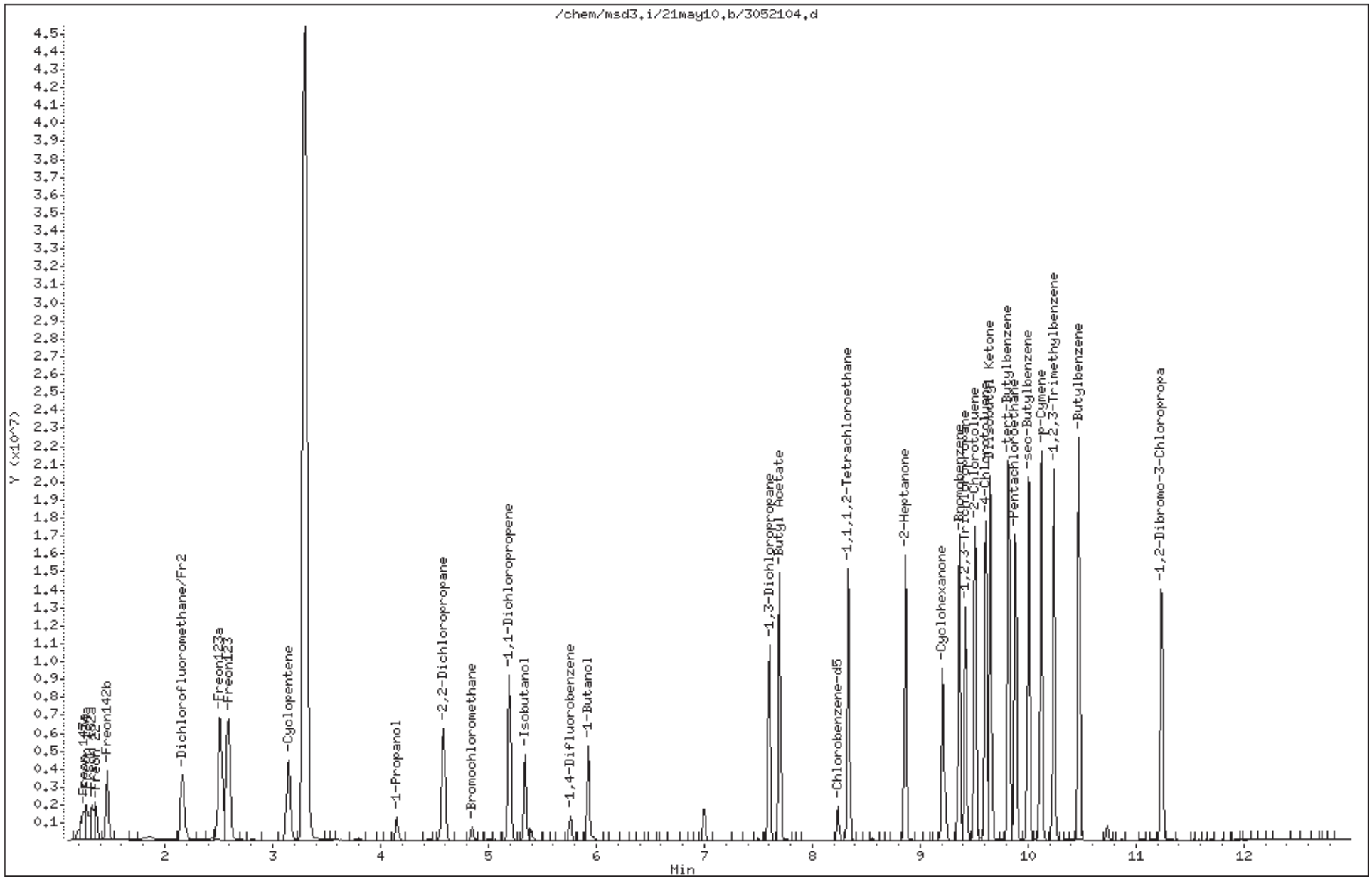
Sample Info: 200mL #1936-144

Column phase: RTx-624

Instrument: msd3.i

Operator: smd

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/20may10.b/3052008.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 20-MAY-2010 13:43
Operator : acb Inst ID: msd3.i
Smp Info : 200ml #1936-182
Misc Info : 200ppbv(200ppbv)
Comment :
Method : /chem/msd3.i/20may10.b/310q0520a.m
Meth Date : 20-May-2010 14:02 abarton Quant Type: ISTD
Cal Date : 20-MAY-2010 13:43 Cal File: 3052008.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 76 Bromochloromethane					CAS #: 74-97-5		
4.838	4.838 (1.000)	130	256763	25.0000		50.00- 150.00	100.00
4.838	4.838 (1.000)	128	203017			27.68- 127.68	79.07
4.831	4.831 (1.000)	49	333593			83.55- 183.55	129.92
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
5.748	5.748 (1.000)	114	972178	25.0000		50.00- 150.00	100.00
5.748	5.748 (1.000)	88	156937			0.00- 65.98	16.14
* 144 Chlorobenzene-d5					CAS #: 3114-55-4		
8.219	8.219 (1.000)	117	887062	25.0000		50.00- 150.00	100.00
8.219	8.219 (1.000)	82	484904			6.33- 106.33	54.66
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.113)	65	367280	25.0000	26.168	50.00- 150.00	100.00
5.382	5.382 (1.113)	67	256481			4.53- 104.53	69.83
$ 115 Toluene-d8					CAS #: 2037-26-5		
6.980	6.980 (1.214)	98	953178	25.0000	25.449	50.00- 150.00	100.00
6.980	6.980 (1.214)	70	110734			0.00- 61.77	11.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 115 Toluene-d8 (continued)							
6.980	6.980 (1.214)	100	646570			17.54- 117.54	67.83
$ 159 Bromofluorobenzene					CAS #: 460-00-4		
9.222	9.222 (1.122)	174	456009	25.0000	25.017	50.00- 150.00	100.00
9.214	9.214 (1.121)	95	631121			89.80- 189.80	138.40
9.222	9.222 (1.122)	176	438052			47.30- 147.30	96.06
6 Propylene					CAS #: 115-07-1		
1.311	1.311 (0.271)	41	1622860	200.000	209.48	50.00- 150.00	100.00(A)
1.311	1.311 (0.271)	42	1102409			16.29- 116.29	67.93
1.311	1.311 (0.271)	39	1258271			25.67- 125.67	77.53
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.339	1.339 (0.277)	85	5518340	200.000	209.87	50.00- 150.00	100.00(A)
1.339	1.339 (0.277)	87	1820203			0.00- 83.16	32.98
10 Freon 114					CAS #: 76-14-2		
1.436	1.436 (0.297)	135	4002804	200.000	190.07	50.00- 150.00	100.00
1.436	1.436 (0.297)	137	1316780			0.00- 81.19	32.90
11 Chloromethane					CAS #: 74-87-3		
1.492	1.492 (0.308)	50	860889	200.000	180.56	50.00- 150.00	100.00
1.492	1.492 (0.308)	52	294311			0.00- 89.83	34.19
13 Butane					CAS #: 106-97-8		
1.548	1.548 (0.320)	58	212937	200.000	124.16	50.00- 150.00	100.00
1.548	1.548 (0.320)	43	1615659			671.03- 771.03	758.75
14 Vinyl Chloride					CAS #: 75-01-4		
1.576	1.576 (0.326)	62	1171955	200.000	160.84	50.00- 150.00	100.00
1.576	1.576 (0.326)	64	383353			9.16- 109.16	32.71
15 1,3-Butadiene					CAS #: 106-99-0		
1.604	1.604 (0.332)	54	1321362	200.000	168.52	50.00- 150.00	100.00
1.604	1.604 (0.332)	39	1475328			86.04- 186.04	111.65
21 Bromomethane					CAS #: 74-83-9		
1.884	1.884 (0.389)	94	1823928	200.000	194.39	50.00- 150.00	100.00
1.884	1.884 (0.389)	96	1719039			43.85- 143.85	94.25
24 Chloroethane					CAS #: 75-00-3		
1.968	1.968 (0.407)	64	1202427	200.000	202.16	50.00- 150.00	100.00(A)
1.968	1.968 (0.407)	66	342247			0.00- 91.47	28.46
1.968	1.968 (0.407)	49	284253			0.00- 76.92	23.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
25 Isopentane					CAS #: 78-78-4		
1.996	1.996 (0.413)	43	2913479	200.000	200.77	50.00- 150.00	100.00(A)
1.996	1.996 (0.413)	57	1809098			17.32- 117.32	62.09
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.173	2.173 (0.449)	101	5378965	200.000	186.06	50.00- 150.00	100.00
2.173	2.173 (0.449)	103	3542963			16.11- 116.11	65.87
29 Ethanol					CAS #: 64-17-5		
2.395	2.395 (0.495)	45	804429	200.000	219.46	50.00- 150.00	100.00(A)
2.395	2.395 (0.495)	43	172835			0.00- 70.33	21.49
2.395	2.395 (0.495)	46	316823			0.00- 85.62	39.38
30 Freon 113					CAS #: 76-13-1		
2.660	2.660 (0.550)	151	3632667	200.000	188.41	50.00- 150.00	100.00
2.660	2.660 (0.550)	153	2336443			15.27- 115.27	64.32
2.660	2.660 (0.550)	101	4333572			70.04- 170.04	119.29
32 1,1-Dichloroethene					CAS #: 75-35-4		
2.696	2.696 (0.557)	96	2028884	200.000	183.50	50.00- 150.00	100.00
2.696	2.696 (0.557)	98	1305475			13.42- 113.42	64.34
2.696	2.696 (0.557)	61	3336810			102.48- 202.48	164.47
34 Acetone					CAS #: 67-64-1		
2.804	2.804 (0.580)	58	948041	200.000	193.12	50.00- 150.00	100.00
2.804	2.804 (0.580)	43	3279020			294.99- 394.99	345.87
35 Carbon Disulfide					CAS #: 75-15-0		
2.918	2.918 (0.603)	76	5649771	200.000	193.15	50.00- 150.00	100.00
37 2-Propanol					CAS #: 67-63-0		
2.940	2.940 (0.608)	45	3767504	200.000	199.45	50.00- 150.00	100.00
2.940	2.940 (0.608)	43	734735			0.00- 68.53	19.50
2.940	2.940 (0.608)	59	141316			0.00- 53.71	3.75
41 3-Chloropropene					CAS #: 107-05-1		
3.126	3.126 (0.646)	76	970172	200.000	192.84	50.00- 150.00	100.00
3.119	3.119 (0.645)	41	2860018			233.43- 333.43	294.79
43 Methylene Chloride					CAS #: 75-09-2		
3.291	3.291 (0.680)	49	2287415	200.000	196.91	50.00- 150.00	100.00
3.291	3.291 (0.680)	84	1778323			30.55- 130.55	77.74
3.291	3.291 (0.680)	51	696068			0.00- 78.00	30.43
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.391	3.391 (0.701)	57	56918	20.0000	16.818	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.391	3.391 (0.701)	41	119091			51.88- 151.88	209.23
3.391	3.391 (0.701)	59	559907			274.92- 374.92	983.71
47 MTBE					CAS #: 1634-04-4		
3.506	3.506 (0.725)	73	5592819	200.000	198.58	50.00- 150.00	100.00
3.506	3.506 (0.725)	57	1231591			0.00- 69.69	22.02
3.506	3.506 (0.725)	41	1253685			0.00- 74.36	22.42
48 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.534	3.534 (0.731)	98	1414451	200.000	188.32	50.00- 150.00	100.00
3.534	3.534 (0.731)	61	3112440			165.89- 265.89	220.05
3.534	3.534 (0.731)	96	2220311			102.74- 202.74	156.97
51 Hexane					CAS #: 110-54-3		
3.749	3.749 (0.775)	57	3361978	200.000	184.11	50.00- 150.00	100.00
3.749	3.749 (0.775)	43	2262757			20.84- 120.84	67.30
3.749	3.749 (0.775)	86	605755			0.00- 67.84	18.02
58 Isopropyl ether					CAS #: 108-20-3		
4.014	4.014 (0.830)	45	975346	20.0000	18.658	50.00- 150.00	100.00
4.014	4.014 (0.830)	87	315049			0.00- 82.08	32.30
4.014	4.014 (0.830)	59	115530			0.00- 62.26	11.85
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.021	4.021 (0.831)	63	4081723	200.000	186.79	50.00- 150.00	100.00
4.021	4.021 (0.831)	65	1312903			0.00- 82.97	32.17
61 Vinyl Acetate					CAS #: 108-05-4		
4.057	4.057 (0.839)	86	617330	200.000	197.31	50.00- 150.00	100.00
4.057	4.057 (0.839)	43	6560326			1048.02-1148.02	1062.69
68 t-Butylethyl Ether					CAS #: 637-92-3		
4.372	4.372 (0.904)	59	628281	20.0000	19.302	50.00- 150.00	100.00
4.372	4.372 (0.904)	87	265221			0.00- 92.49	42.21
4.372	4.372 (0.904)	41	129197			0.00- 68.70	20.56
73 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.601	4.601 (0.951)	98	1574917	200.000	191.82	50.00- 150.00	100.00
4.601	4.601 (0.951)	96	2437448			107.00- 207.00	154.77
4.601	4.601 (0.951)	61	3151516			156.77- 256.77	200.11
74 2-Butanone					CAS #: 78-93-3		
4.623	4.623 (0.956)	72	1225756	200.000	186.41	50.00- 150.00	100.00
4.623	4.623 (0.956)	43	4952895			367.38- 467.38	404.07
4.623	4.623 (0.956)	57	383025			0.00- 82.47	31.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrahydrofuran					CAS #: 109-99-9		
4.831	4.831 (0.999)	42	2885128	200.000	181.91	50.00- 150.00	100.00
4.831	4.831 (0.999)	71	1090826			0.00- 85.96	37.81
4.831	4.831 (0.999)	72	1176215			0.00- 88.91	40.77
78 Chloroform					CAS #: 67-66-3		
4.902	4.902 (1.013)	83	4736489	200.000	185.66	50.00- 150.00	100.00
4.902	4.902 (1.013)	85	3113255			15.14- 115.14	65.73
80 Cyclohexane					CAS #: 110-82-7		
5.017	5.017 (1.037)	84	3205703	200.000	184.72	50.00- 150.00	100.00
5.010	5.010 (1.036)	56	3649901			68.72- 168.72	113.86
5.010	5.010 (1.036)	41	2154311			19.25- 119.25	67.20
81 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.031	5.031 (1.040)	97	4858304	200.000	190.27	50.00- 150.00	100.00
5.031	5.031 (1.040)	99	3154680			13.46- 113.46	64.93
82 Carbon Tetrachloride					CAS #: 56-23-5		
5.146	5.146 (1.064)	119	4895360	200.000	196.79	50.00- 150.00	100.00
5.146	5.146 (1.064)	117	5038849			53.73- 153.73	102.93
87 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.354	5.354 (1.107)	57	10243362	200.000	174.90	50.00- 150.00	100.00
5.354	5.354 (1.107)	56	3469262			0.00- 83.36	33.87
5.354	5.354 (1.107)	41	2879260			0.00- 79.00	28.11
88 Benzene					CAS #: 71-43-2		
5.361	5.361 (0.933)	78	6732622	200.000	181.54	50.00- 150.00	100.00
5.361	5.361 (0.933)	77	1615788			0.00- 75.11	24.00
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.440	5.440 (1.124)	73	539058	20.0000	17.775	50.00- 150.00	100.00
5.440	5.440 (1.124)	87	130948			0.00- 73.83	24.29
5.440	5.440 (1.124)	55	138856			0.00- 76.83	25.76
93 1,2-Dichloroethane					CAS #: 107-06-2		
5.454	5.454 (0.949)	62	3350293	200.000	194.13	50.00- 150.00	100.00
5.454	5.454 (0.949)	64	1105724			0.00- 84.79	33.00
94 Heptane					CAS #: 142-82-5		
5.526	5.526 (0.961)	71	2708380	200.000	190.90	50.00- 150.00	100.00
5.526	5.526 (0.961)	43	4751095			135.14- 235.14	175.42
5.526	5.526 (0.961)	57	2455924			42.76- 142.76	90.68
102 Trichloroethene					CAS #: 79-01-6		
5.941	5.941 (1.034)	95	3243977	200.000	193.23	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
102 Trichloroethene (continued)							
5.941	5.941 (1.034)	130	3460731			51.95- 151.95	106.68
5.941	5.941 (1.034)	97	2110388			13.87- 113.87	65.06
104 Methyl Cyclohexane					CAS #: 108-87-2		
6.048	6.048 (1.250)	83	4311282	200.000	188.25	50.00- 150.00	100.00
6.048	6.048 (1.250)	98	2140369			0.00- 99.36	49.65
6.048	6.048 (1.250)	55	3490511			32.31- 132.31	80.96
106 1,2-Dichloropropane					CAS #: 78-87-5		
6.177	6.177 (1.075)	63	2758020	200.000	189.97	50.00- 150.00	100.00
6.177	6.177 (1.075)	62	1970737			19.50- 119.50	71.45
6.177	6.177 (1.075)	41	1675286			12.61- 112.61	60.74
107 1,4-Dioxane					CAS #: 123-91-1		
6.270	6.270 (1.091)	88	1821887	200.000	202.38	50.00- 150.00	100.00(A)
6.270	6.270 (1.091)	58	1304803			22.28- 122.28	71.62
6.270	6.270 (1.091)	57	413624			0.00- 73.35	22.70
109 Bromodichloromethane					CAS #: 75-27-4		
6.414	6.414 (1.116)	83	5316887	200.000	199.58	50.00- 150.00	100.00
6.414	6.414 (1.116)	85	3460881			13.18- 113.18	65.09
112 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.793	6.793 (1.182)	75	4288132	200.000	199.51	50.00- 150.00	100.00
6.793	6.793 (1.182)	77	1392095			0.00- 81.33	32.46
6.793	6.793 (1.182)	39	2384609			7.75- 107.75	55.61
114 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.915	6.915 (1.203)	58	2420608	200.000	197.20	50.00- 150.00	100.00
6.908	6.908 (1.202)	43	6397129			229.92- 329.92	264.28
6.915	6.915 (1.203)	85	1059029			0.00- 92.97	43.75
116 Toluene					CAS #: 108-88-3		
7.037	7.037 (1.224)	91	8228238	200.000	188.62	50.00- 150.00	100.00
7.037	7.037 (1.224)	92	5124622			10.41- 110.41	62.28
123 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.280	7.280 (0.886)	75	4417123	200.000	193.52	50.00- 150.00	100.00
7.280	7.280 (0.886)	77	1449065			0.00- 82.90	32.81
7.280	7.280 (0.886)	39	2353600			5.93- 105.93	53.28
128 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.438	7.438 (0.905)	97	3025258	200.000	189.07	50.00- 150.00	100.00
7.438	7.438 (0.905)	99	1904320			12.18- 112.18	62.95
7.438	7.438 (0.905)	83	2583326			36.73- 136.73	85.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
131 Tetrachloroethene					CAS #: 127-18-4		
7.481	7.481 (0.910)	166	4155458	200.000	200.64	50.00- 150.00	100.00(A)
7.474	7.474 (0.909)	129	3111714			28.04- 128.04	74.88
7.474	7.474 (0.909)	131	2998021			22.71- 122.71	72.15
135 2-Hexanone					CAS #: 591-78-6		
7.610	7.610 (0.926)	58	3378965	200.000	193.08	50.00- 150.00	100.00
7.610	7.610 (0.926)	43	6444738			147.09- 247.09	190.73
7.610	7.610 (0.926)	100	720409			0.00- 70.49	21.32
138 Dibromochloromethane					CAS #: 124-48-1		
7.746	7.746 (0.942)	129	5258671	200.000	205.07	50.00- 150.00	100.00(A)
7.746	7.746 (0.942)	127	4087845			27.79- 127.79	77.74
140 1,2-Dibromoethane					CAS #: 106-93-4		
7.861	7.861 (0.956)	107	4645518	200.000	194.42	50.00- 150.00	100.00
7.861	7.861 (0.956)	109	4461706			45.62- 145.62	96.04
145 Chlorobenzene					CAS #: 108-90-7		
8.247	8.247 (1.003)	112	6739024	200.000	190.25	50.00- 150.00	100.00
8.247	8.247 (1.003)	114	2254823			0.00- 82.30	33.46
8.240	8.240 (1.003)	77	3987069			21.61- 121.61	59.16
147 Ethyl Benzene					CAS #: 100-41-4		
8.298	8.298 (1.010)	106	3593952	200.000	193.65	50.00- 150.00	100.00
8.298	8.298 (1.010)	91	10046730			253.16- 353.16	279.55
150 m,p-Xylene					CAS #: 108-38-3		
8.398	8.398 (1.022)	106	4494244	200.000	197.92	50.00- 150.00	100.00
8.398	8.398 (1.022)	91	8251859			149.33- 249.33	183.61
153 o-Xylene					CAS #: 95-47-6		
8.742	8.742 (1.064)	106	4290695	200.000	207.30	50.00- 150.00	100.00(A)
8.742	8.742 (1.064)	91	8218456			156.46- 256.46	191.54
154 Styrene					CAS #: 100-42-5		
8.763	8.763 (1.066)	104	6836165	200.000	200.85	50.00- 150.00	100.00(A)
8.763	8.763 (1.066)	78	3474530			1.45- 101.45	50.83
155 Bromoform					CAS #: 75-25-2		
8.957	8.957 (1.090)	173	4850614	200.000	224.69	50.00- 150.00	100.00(A)
8.957	8.957 (1.090)	171	2540264			2.03- 102.03	52.37
156 Cumene					CAS #: 98-82-8		
9.035	9.035 (1.099)	105	10896241	200.000	187.22	50.00- 150.00	100.00(A)
9.035	9.035 (1.099)	120	3396869			0.00- 78.61	31.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 Cumene (continued)							
9.035	9.035 (1.099)	51	1172124			0.00- 61.59	10.76
161 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.351	9.351 (1.138)	83	6148829	200.000	200.44	50.00- 150.00	100.00(A)
9.351	9.351 (1.138)	85	4076084			13.91- 113.91	66.29
162 Propylbenzene					CAS #: 103-65-1		
9.386	9.386 (1.142)	91	12583535	200.000	187.81	50.00- 150.00	100.00(A)
9.386	9.386 (1.142)	120	3517618			0.00- 73.78	27.95
9.386	9.386 (1.142)	105	543569			0.00- 53.86	4.32
163 4-Ethyltoluene					CAS #: 622-96-8		
9.480	9.480 (1.153)	120	3984624	200.000	210.10	50.00- 150.00	100.00(A)
9.480	9.480 (1.153)	105	11206168			258.07- 358.07	281.24
166 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.537	9.537 (1.160)	120	5095475	200.000	207.91	50.00- 150.00	100.00(A)
9.537	9.537 (1.160)	105	9226532			144.84- 244.84	181.07
166 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
9.859	9.859 (1.200)	120	4774256	200.000	208.32	50.00- 150.00	100.00(A)
9.859	9.859 (1.200)	105	9155668			155.69- 255.69	191.77
168 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.139	10.139 (1.234)	146	6627820	200.000	199.80	50.00- 150.00	100.00
10.139	10.139 (1.234)	148	4400307			13.04- 113.04	66.39
10.139	10.139 (1.234)	111	2786584			0.00- 90.17	42.04
169 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.217	10.217 (1.243)	146	6685978	200.000	205.35	50.00- 150.00	100.00(A)
10.217	10.217 (1.243)	148	4455829			14.53- 114.53	66.64
10.217	10.217 (1.243)	111	2689822			0.00- 90.65	40.23
170 alpha-Chlorotoluene					CAS #: 100-44-7		
10.332	10.332 (1.257)	91	9228972	200.000	200.90	50.00- 150.00	100.00(A)
10.339	10.339 (1.258)	126	2243201			0.00- 71.45	24.31
171 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.540	10.540 (1.282)	146	6103924	200.000	208.89	50.00- 150.00	100.00(A)
10.540	10.540 (1.282)	148	4028433			14.08- 114.08	66.00
10.540	10.540 (1.282)	111	2659188			0.00- 94.71	43.57
174 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.908	11.908 (1.449)	180	5349136	200.000	233.61	50.00- 150.00	100.00(A)
11.908	11.908 (1.449)	182	5103253			45.73- 145.73	95.40

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
175 Hexachlorobutadiene					CAS #: 87-68-3		
12.001	12.001 (1.460)	225	3614440	200.000	247.29	50.00- 150.00	100.00(A)
12.001	12.001 (1.460)	223	2303406			17.13- 117.13	63.73
176 Naphthalene					CAS #: 91-20-3		
12.159	12.159 (1.479)	128	2191779	20.0000	20.952	50.00- 150.00	100.00
12.159	12.159 (1.479)	127	271794			0.00- 62.50	12.40

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3052008.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: acb
Method File: /chem/msd3.i/20may10.b/310q0520a.m
Misc Info: 200ppbv(200ppbv)

Calibration Date: 20-MAY-2010
Calibration Time: 12:56
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	258882	155329	362435	256763	-0.82
97 1,4-Difluorobenze	984625	590775	1378475	972178	-1.26
144 Chlorobenzene-d5	859874	515924	1203824	887062	3.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	4.85	4.52	5.18	4.84	-0.30
97 1,4-Difluorobenze	5.76	5.43	6.09	5.75	-0.25
144 Chlorobenzene-d5	8.23	7.90	8.56	8.22	-0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/20may10.b/3052008.d

Date : 20-MAY-2010 13:43

Client ID: Level 7

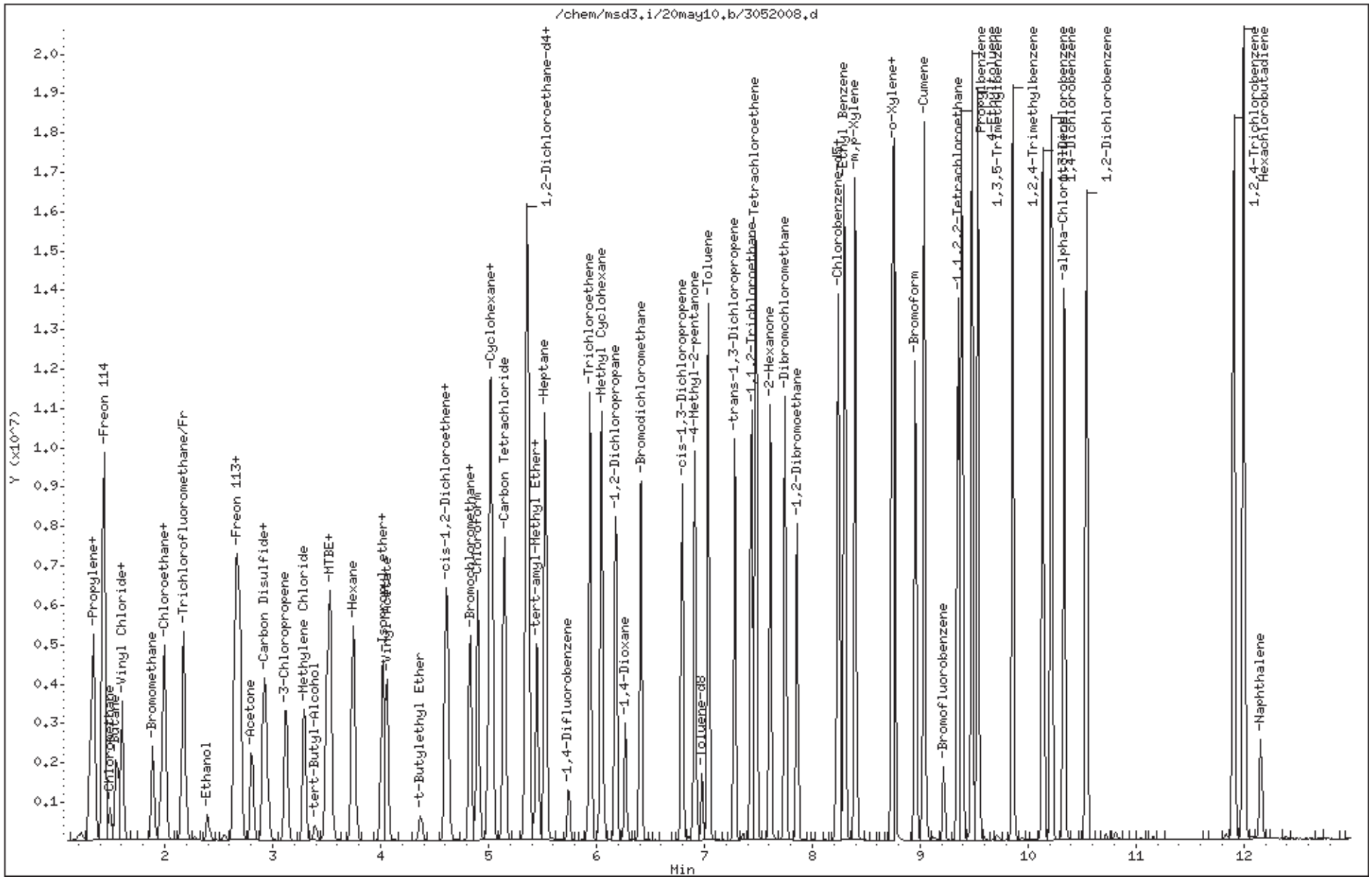
Sample Info: 200ml #1936-182

Column phase: RTx-624

Instrument: msd3.i

Operator: acb

Column diameter: 0.53



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005453A-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 09:24 AM**	

Compound	%Recovery
Freon 12	113
Freon 114	106
Chloromethane	122
Vinyl Chloride	96
1,3-Butadiene	117
Bromomethane	122
Chloroethane	119
Freon 11	101
Ethanol	126
Freon 113	100
1,1-Dichloroethene	107
Acetone	115
2-Propanol	110
Carbon Disulfide	118
3-Chloropropene	113
Methylene Chloride	118
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	109
Hexane	105
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	101
Tetrahydrofuran	102
Chloroform	97
1,1,1-Trichloroethane	89
Cyclohexane	96
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	97
Benzene	109
1,2-Dichloroethane	102
Heptane	103
Trichloroethene	100
1,2-Dichloropropane	103
1,4-Dioxane	99
Bromodichloromethane	97
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	100
Toluene	102
trans-1,3-Dichloropropene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005453A-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 09:24 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	97
Tetrachloroethene	95
2-Hexanone	102
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	100
Chlorobenzene	101
Ethyl Benzene	101
m,p-Xylene	101
o-Xylene	104
Styrene	106
Bromoform	98
Cumene	106
1,1,2,2-Tetrachloroethane	110
Propylbenzene	111
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	86
TPH ref. to Gasoline (MW=100)	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-MAY-2010 09:24
Lab File ID: 3052702.d Init. Cal. Date(s): 20-MAY-2010 21-MAY-2010
Analysis Type: AIR Init. Cal. Times: 11:15 17:00
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/27may10.b/310q0520a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 89 1,2-Dichloroethane-d4	1.36656	1.30166	0.010	4.74911	30.00000	Averaged
$ 115 Toluene-d8	0.96315	0.99037	0.010	-2.82637	30.00000	Averaged
$ 159 Bromofluorobenzene	0.51371	0.52165	0.010	-1.54501	30.00000	Averaged
6 Propylene	0.75432	0.89497	0.010	-18.64634	30.00000	Averaged
7 Dichlorodifluoromethane/Fr1	2.56017	2.89760	0.010	-13.17969	30.00000	Averaged
10 Freon 114	2.05047	2.16607	0.010	-5.63781	30.00000	Averaged
11 Chloromethane	0.46423	0.56716	0.010	-22.17199	30.00000	Averaged
13 Butane	0.16698	0.12167	0.010	27.13681	40.00000	Averaged
14 Vinyl Chloride	0.70947	0.68100	0.010	4.01216	30.00000	Averaged
15 1,3-Butadiene	0.76346	0.89516	0.010	-17.25035	30.00000	Averaged
21 Bromomethane	0.91355	1.11269	0.010	-21.79800	30.00000	Averaged
24 Chloroethane	0.57914	0.69119	0.010	-19.34899	30.00000	Averaged
25 Isopentane	1.41295	1.60997	0.010	-13.94415	40.00000	Averaged
28 Trichlorofluoromethane/Fr11	2.81488	2.84884	0.010	-1.20639	30.00000	Averaged
29 Ethanol	0.35689	0.44850	0.010	-25.66805	30.00000	Averaged
30 Freon 113	1.87724	1.88434	0.010	-0.37826	30.00000	Averaged
32 1,1-Dichloroethene	1.07653	1.15537	0.010	-7.32394	30.00000	Averaged
34 Acetone	0.47797	0.55045	0.010	-15.16422	30.00000	Averaged
35 Carbon Disulfide	2.84805	3.36654	0.010	-18.20526	30.00000	Averaged
37 2-Propanol	1.83915	2.02682	0.010	-10.20377	30.00000	Averaged
41 3-Chloropropene	0.48983	0.55213	0.010	-12.71864	30.00000	Averaged
43 Methylene Chloride	1.13105	1.33170	0.010	-17.73985	30.00000	Averaged
46 tert-Butyl-Alcohol	0.32952	0.30369	0.010	7.83821	40.00000	Averaged
47 MTBE	2.74216	2.82043	0.010	-2.85417	30.00000	Averaged
48 trans-1,2-Dichloroethene	0.73129	0.79983	0.010	-9.37317	30.00000	Averaged
51 Hexane	1.77800	1.86198	0.010	-4.72342	30.00000	Averaged
58 Isopropyl ether	5.08992	5.04677	0.010	0.84778	40.00000	Averaged
59 1,1-Dichloroethane	2.12766	2.29682	0.010	-7.95071	30.00000	Averaged
61 Vinyl Acetate	0.30463	0.32073	0.010	-5.28780	40.00000	Averaged
68 t-Butylethyl Ether	3.16923	3.02362	0.010	4.59441	40.00000	Averaged
73 cis-1,2-Dichloroethene	0.79943	0.80722	0.010	-0.97480	30.00000	Averaged
74 2-Butanone	0.64025	0.64744	0.010	-1.12363	30.00000	Averaged
75 Tetrahydrofuran	1.54421	1.57005	0.010	-1.67299	30.00000	Averaged
78 Chloroform	2.48391	2.41671	0.010	2.70527	30.00000	Averaged
80 Cyclohexane	1.68971	1.61739	0.010	4.27988	30.00000	Averaged
81 1,1,1-Trichloroethane	2.48609	2.22334	0.010	10.56857	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-MAY-2010 09:24
Lab File ID: 3052702.d Init. Cal. Date(s): 20-MAY-2010 21-MAY-2010
Analysis Type: AIR Init. Cal. Times: 11:15 17:00
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/27may10.b/310q0520a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
82 Carbon Tetrachloride	2.42204	2.14670	0.010	11.36796	30.00000	Averaged
87 2,2,4-Trimethylpentane	5.70236	5.54423	0.010	2.77315	30.00000	Averaged
88 Benzene	0.95366	1.03660	0.010	-8.69745	30.00000	Averaged
92 tert-amyl-Methyl Ether	2.95273	2.54960	0.010	13.65303	40.00000	Averaged
93 1,2-Dichloroethane	0.44380	0.45409	0.010	-2.31860	30.00000	Averaged
94 Heptane	0.36484	0.37707	0.010	-3.35143	30.00000	Averaged
102 Trichloroethene	0.43171	0.43240	0.010	-0.15966	30.00000	Averaged
104 Methyl Cyclohexane	2.22990	1.95355	0.010	12.39294	40.00000	Averaged
106 1,2-Dichloropropane	0.37334	0.38434	0.010	-2.94798	30.00000	Averaged
107 1,4-Dioxane	0.23150	0.22967	0.010	0.79294	30.00000	Averaged
109 Bromodichloromethane	0.68505	0.66680	0.010	2.66498	30.00000	Averaged
112 cis-1,3-Dichloropropene	0.55271	0.53925	0.010	2.43489	30.00000	Averaged
114 4-Methyl-2-pentanone	0.31565	0.31637	0.010	-0.22745	30.00000	Averaged
116 Toluene	1.12176	1.14402	0.010	-1.98419	30.00000	Averaged
123 trans-1,3-Dichloropropene	0.64326	0.61301	0.010	4.70258	30.00000	Averaged
128 1,1,2-Trichloroethane	0.45095	0.43738	0.010	3.00835	30.00000	Averaged
131 Tetrachloroethene	0.58369	0.55603	0.010	4.73881	30.00000	Averaged
135 2-Hexanone	0.49320	0.50436	0.010	-2.26267	30.00000	Averaged
138 Dibromochloromethane	0.72269	0.70462	0.010	2.50077	30.00000	Averaged
140 1,2-Dibromoethane	0.67340	0.67649	0.010	-0.45904	30.00000	Averaged
145 Chlorobenzene	0.99828	1.00846	0.010	-1.02034	30.00000	Averaged
147 Ethyl Benzene	0.52304	0.52814	0.010	-0.97465	30.00000	Averaged
150 m,p-Xylene	0.63996	0.64852	0.010	-1.33839	30.00000	Averaged
153 o-Xylene	0.58333	0.60944	0.010	-4.47669	30.00000	Averaged
154 Styrene	0.95925	1.01483	0.010	-5.79427	30.00000	Averaged
155 Bromoform	0.60840	0.59637	0.010	1.97708	30.00000	Averaged
156 Cumene	1.64025	1.74093	0.010	-6.13817	30.00000	Averaged
161 1,1,2,2-Tetrachloroethane	0.86454	0.95612	0.010	-10.59258	30.00000	Averaged
162 Propylbenzene	1.88829	2.10172	0.010	-11.30306	30.00000	Averaged
163 4-Ethyltoluene	0.53451	0.56962	0.010	-6.57031	30.00000	Averaged
164 1,3,5-Trimethylbenzene	0.69070	0.74783	0.010	-8.27035	30.00000	Averaged
166 1,2,4-Trimethylbenzene	0.64591	0.67769	0.010	-4.92009	30.00000	Averaged
168 1,3-Dichlorobenzene	0.93491	0.94524	0.010	-1.10574	30.00000	Averaged
169 1,4-Dichlorobenzene	0.91759	0.96561	0.010	-5.23339	30.00000	Averaged
170 alpha-Chlorotoluene	1.29470	1.30089	0.010	-0.47845	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 27-MAY-2010 09:24
Lab File ID: 3052702.d Init. Cal. Date(s): 20-MAY-2010 21-MAY-2010
Analysis Type: AIR Init. Cal. Times: 11:15 17:00
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/27may10.b/310q0520a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
171 1,2-Dichlorobenzene	0.82353	0.86834	0.010	-5.44197	30.00000	Averaged
174 1,2,4-Trichlorobenzene	0.64533	0.62732	0.010	2.79047	30.00000	Averaged
175 Hexachlorobutadiene	0.41193	0.35623	0.010	13.52207	30.00000	Averaged
176 Naphthalene	2.94824	3.45863	0.010	-17.31164	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052702.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-MAY-2010 09:24
Operator : acb Inst ID: msd3.i
Smp Info : 200mL #1936-182
Misc Info : 200ppbv->50ppbv
Comment :
Method : /var/chem/msd3.i/27may10.b/310q0520a.m
Meth Date : 27-May-2010 10:51 abarton Quant Type: ISTD
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 76 Bromochloromethane					CAS #: 74-97-5		
4.845	4.845 (1.000)	130	258488	25.0000		80.00- 120.00	100.00
4.845	4.845 (1.000)	128	204887			28.10- 128.10	79.26
4.845	4.845 (1.000)	49	371441			81.21- 181.21	143.70
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
5.762	5.762 (1.000)	114	894304	25.0000		80.00- 120.00	100.00
5.762	5.762 (1.000)	88	141879			0.00- 66.01	15.86
* 144 Chlorobenzene-d5					CAS #: 3114-55-4		
8.240	8.240 (1.000)	117	791587	25.0000		80.00- 120.00	100.00
8.240	8.240 (1.000)	82	431801			6.08- 106.08	54.55
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.397	5.397 (1.114)	65	336463	25.0000	23.813	80.00- 120.00	100.00
5.397	5.397 (1.114)	67	193303			4.53- 104.53	57.45
$ 115 Toluene-d8					CAS #: 2037-26-5		
7.001	7.001 (1.215)	98	885692	25.0000	25.706	80.00- 120.00	100.00
7.001	7.001 (1.215)	70	100900			0.00- 61.77	11.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 115 Toluene-d8 (continued)							
7.001	7.001 (1.215)	100	595748			17.54- 117.54	67.26
$ 159 Bromofluorobenzene					CAS #: 460-00-4		
9.236	9.236 (1.121)	174	412928	25.0000	25.386	80.00- 120.00	100.00
9.236	9.236 (1.121)	95	573932			89.80- 189.80	138.99
9.236	9.236 (1.121)	176	393537			47.30- 147.30	95.30
6 Propylene					CAS #: 115-07-1		
1.311	1.311 (0.271)	41	462677	50.0000	59.323	80.00- 120.00	100.00
1.311	1.311 (0.271)	42	316024			16.29- 116.29	68.30
1.311	1.311 (0.271)	39	348277			25.67- 125.67	75.27
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.325	1.325 (0.273)	85	1497988	50.0000	56.590	80.00- 120.00	100.00
1.325	1.325 (0.273)	87	488980			0.00- 83.16	32.64
10 Freon 114					CAS #: 76-14-2		
1.437	1.437 (0.296)	135	1119806	50.0000	52.819	80.00- 120.00	100.00
1.437	1.437 (0.296)	137	361652			0.00- 81.19	32.30
11 Chloromethane					CAS #: 74-87-3		
1.479	1.479 (0.305)	50	293210	50.0000	61.086	80.00- 120.00	100.00
1.479	1.479 (0.305)	52	99871			0.00- 89.83	34.06
13 Butane					CAS #: 106-97-8		
1.549	1.549 (0.320)	58	62898	50.0000	36.432	80.00- 120.00	100.00
1.549	1.549 (0.320)	43	472961			671.03- 771.03	751.95
14 Vinyl Chloride					CAS #: 75-01-4		
1.577	1.577 (0.325)	62	352063	50.0000	47.994	80.00- 120.00	100.00
1.577	1.577 (0.325)	64	118944			9.16- 109.16	33.78
15 1,3-Butadiene					CAS #: 106-99-0		
1.605	1.605 (0.331)	54	462776	50.0000	58.625	80.00- 120.00	100.00
1.605	1.605 (0.331)	39	501095			86.04- 186.04	108.28
21 Bromomethane					CAS #: 74-83-9		
1.884	1.884 (0.389)	94	575234	50.0000	60.899	80.00- 120.00	100.00
1.884	1.884 (0.389)	96	531317			43.85- 143.85	92.37
24 Chloroethane					CAS #: 75-00-3		
1.968	1.968 (0.406)	64	357331	50.0000	59.674	80.00- 120.00	100.00
1.968	1.968 (0.406)	66	106110			0.00- 91.47	29.70
1.968	1.968 (0.406)	49	85670			0.00- 76.92	23.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
25 Isopentane					CAS #: 78-78-4		
1.996	1.996 (0.412)	43	832317	50.0000	56.972	80.00- 120.00	100.00
1.996	1.996 (0.412)	57	568344			17.32- 117.32	68.28
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.173	2.173 (0.449)	101	1472783	50.0000	50.603	80.00- 120.00	100.00
2.173	2.173 (0.449)	103	970962			16.11- 116.11	65.93
29 Ethanol					CAS #: 64-17-5		
2.388	2.388 (0.493)	45	231864	50.0000	62.834	80.00- 120.00	100.00
2.388	2.388 (0.493)	43	51206			0.00- 70.33	22.08
2.388	2.388 (0.493)	46	93932			0.00- 85.62	40.51
30 Freon 113					CAS #: 76-13-1		
2.668	2.668 (0.551)	151	974161	50.0000	50.189	80.00- 120.00	100.00
2.668	2.668 (0.551)	153	627652			15.27- 115.27	64.43
2.668	2.668 (0.551)	101	1271157			70.04- 170.04	130.49
32 1,1-Dichloroethene					CAS #: 75-35-4		
2.696	2.696 (0.556)	96	597300	50.0000	53.662	80.00- 120.00	100.00
2.696	2.696 (0.556)	98	387150			13.42- 113.42	64.82
2.696	2.696 (0.556)	61	974786			102.48- 202.48	163.20
34 Acetone					CAS #: 67-64-1		
2.811	2.811 (0.580)	58	284568	50.0000	57.582	80.00- 120.00	100.00
2.811	2.811 (0.580)	43	954249			294.99- 394.99	335.33
35 Carbon Disulfide					CAS #: 75-15-0		
2.918	2.918 (0.602)	76	1740422	50.0000	59.103	80.00- 120.00	100.00
37 2-Propanol					CAS #: 67-63-0		
2.947	2.947 (0.608)	45	1047816	50.0000	55.102	80.00- 120.00	100.00
2.947	2.947 (0.608)	43	218334			0.00- 68.53	20.84
2.947	2.947 (0.608)	59	38609			0.00- 53.71	3.68
41 3-Chloropropene					CAS #: 107-05-1		
3.126	3.126 (0.645)	76	285439	50.0000	56.359	80.00- 120.00	100.00
3.126	3.126 (0.645)	41	844452			233.43- 333.43	295.84
43 Methylene Chloride					CAS #: 75-09-2		
3.291	3.291 (0.679)	49	688455	50.0000	58.870	80.00- 120.00	100.00
3.298	3.298 (0.681)	84	539073			30.55- 130.55	78.30
3.298	3.298 (0.681)	51	216242			0.00- 78.00	31.41
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.398	3.398 (0.701)	57	15700	5.00000	4.608	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.405	3.405 (0.703)	41	36427			51.88- 151.88	232.02
3.405	3.405 (0.703)	59	138678			274.92- 374.92	883.30
47 MTBE					CAS #: 1634-04-4		
3.520	3.520 (0.726)	73	1458095	50.0000	51.427	80.00- 120.00	100.00
3.513	3.513 (0.725)	57	328283			0.00- 69.69	22.51
3.520	3.520 (0.726)	41	359114			0.00- 74.36	24.63
48 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.542	3.542 (0.731)	98	413494	50.0000	54.686	80.00- 120.00	100.00
3.542	3.542 (0.731)	61	941942			165.89- 265.89	227.80
3.542	3.542 (0.731)	96	648259			102.74- 202.74	156.78
51 Hexane					CAS #: 110-54-3		
3.756	3.756 (0.775)	57	962600	50.0000	52.362	80.00- 120.00	100.00
3.756	3.756 (0.775)	43	657956			20.84- 120.84	68.35
3.756	3.756 (0.775)	86	163478			0.00- 67.84	16.98
58 Isopropyl ether					CAS #: 108-20-3		
4.021	4.021 (0.830)	45	260906	5.00000	4.958	80.00- 120.00	100.00
4.029	4.029 (0.831)	87	78930			0.00- 82.08	30.25
4.029	4.029 (0.831)	59	32580			0.00- 62.26	12.49
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.029	4.029 (0.831)	63	1187402	50.0000	53.975	80.00- 120.00	100.00
4.029	4.029 (0.831)	65	379954			0.00- 82.97	32.00
61 Vinyl Acetate					CAS #: 108-05-4		
4.072	4.072 (0.840)	86	165812	50.0000	52.644	80.00- 120.00	100.00
4.072	4.072 (0.840)	43	1872273			1048.02-1148.02	1129.15
68 t-Butylethyl Ether					CAS #: 637-92-3		
4.380	4.380 (0.904)	59	156314	5.00000	4.770	80.00- 120.00	100.00
4.380	4.380 (0.904)	87	62841			0.00- 92.49	40.20
4.380	4.380 (0.904)	41	33216			0.00- 68.70	21.25
73 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.616	4.616 (0.953)	98	417315	50.0000	50.487	80.00- 120.00	100.00
4.616	4.616 (0.953)	96	655276			107.00- 207.00	157.02
4.616	4.616 (0.953)	61	876169			156.77- 256.77	209.95
74 2-Butanone					CAS #: 78-93-3		
4.637	4.637 (0.957)	72	334712	50.0000	50.562	80.00- 120.00	100.00
4.637	4.637 (0.957)	43	1425943			367.38- 467.38	426.02
4.637	4.637 (0.957)	57	107553			0.00- 82.47	32.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrahydrofuran					CAS #: 109-99-9		
4.845	4.845 (1.000)	42	811676	50.0000	50.836	80.00- 120.00	100.00
4.845	4.845 (1.000)	71	294852			0.00- 85.96	36.33
4.845	4.845 (1.000)	72	313603			0.00- 88.91	38.64
78 Chloroform					CAS #: 67-66-3		
4.917	4.917 (1.015)	83	1249381	50.0000	48.647	80.00- 120.00	100.00
4.917	4.917 (1.015)	85	822651			15.14- 115.14	65.84
80 Cyclohexane					CAS #: 110-82-7		
5.031	5.031 (1.038)	84	836154	50.0000	47.860	80.00- 120.00	100.00
5.024	5.024 (1.037)	56	999576			68.72- 168.72	119.54
5.024	5.024 (1.037)	41	589539			19.25- 119.25	70.51
81 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.046	5.046 (1.041)	97	1149415	50.0000	44.716	80.00- 120.00	100.00
5.046	5.046 (1.041)	99	743004			13.46- 113.46	64.64
82 Carbon Tetrachloride					CAS #: 56-23-5		
5.160	5.160 (1.065)	119	1109794	50.0000	44.316	80.00- 120.00	100.00
5.160	5.160 (1.065)	117	1144788			53.73- 153.73	103.15
87 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.368	5.368 (1.108)	57	2866232	50.0000	48.613	80.00- 120.00	100.00
5.368	5.368 (1.108)	56	962974			0.00- 83.36	33.60
5.368	5.368 (1.108)	41	778086			0.00- 79.00	27.15
88 Benzene					CAS #: 71-43-2		
5.375	5.375 (0.933)	78	1854071	50.0000	54.349	80.00- 120.00	100.00
5.375	5.375 (0.933)	77	447773			0.00- 75.11	24.15
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.454	5.454 (1.126)	73	131808	5.00000	4.317	80.00- 120.00	100.00
5.454	5.454 (1.126)	87	29624			0.00- 73.83	22.48
5.454	5.454 (1.126)	55	39773			0.00- 76.83	30.17
93 1,2-Dichloroethane					CAS #: 107-06-2		
5.468	5.468 (0.949)	62	812184	50.0000	51.159	80.00- 120.00	100.00
5.468	5.468 (0.949)	64	265783			0.00- 84.79	32.72
94 Heptane					CAS #: 142-82-5		
5.540	5.540 (0.961)	71	674424	50.0000	51.676	80.00- 120.00	100.00
5.540	5.540 (0.961)	43	1250146			135.14- 235.14	185.36
5.540	5.540 (0.961)	57	620450			42.76- 142.76	92.00
102 Trichloroethene					CAS #: 79-01-6		
5.955	5.955 (1.034)	95	773401	50.0000	50.080	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
102 Trichloroethene (continued)							
5.955	5.955 (1.034)	130	786001			51.95- 151.95	101.63
5.955	5.955 (1.034)	97	496747			13.87- 113.87	64.23
104 Methyl Cyclohexane					CAS #: 108-87-2		
6.063	6.063 (1.251)	83	1009938	50.0000	43.804	80.00- 120.00	100.00
6.063	6.063 (1.251)	98	486257			0.00- 99.36	48.15
6.063	6.063 (1.251)	55	856896			32.31- 132.31	84.85
106 1,2-Dichloropropane					CAS #: 78-87-5		
6.199	6.199 (1.076)	63	687441	50.0000	51.474	80.00- 120.00	100.00
6.199	6.199 (1.076)	62	489006			19.50- 119.50	71.13
6.192	6.192 (1.075)	41	404465			12.61- 112.61	58.84
107 1,4-Dioxane					CAS #: 123-91-1		
6.285	6.285 (1.091)	88	410782	50.0000	49.604	80.00- 120.00	100.00
6.285	6.285 (1.091)	58	302442			22.28- 122.28	73.63
6.285	6.285 (1.091)	57	98404			0.00- 73.35	23.96
109 Bromodichloromethane					CAS #: 75-27-4		
6.428	6.428 (1.116)	83	1192640	50.0000	48.668	80.00- 120.00	100.00
6.428	6.428 (1.116)	85	767683			13.18- 113.18	64.37
112 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.815	6.815 (1.183)	75	964504	50.0000	48.782	80.00- 120.00	100.00
6.815	6.815 (1.183)	77	310176			0.00- 81.33	32.16
6.815	6.815 (1.183)	39	513294			7.75- 107.75	53.22
114 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.930	6.930 (1.203)	58	565861	50.0000	50.114	80.00- 120.00	100.00
6.930	6.930 (1.203)	43	1581638			229.92- 329.92	279.51
6.930	6.930 (1.203)	85	226122			0.00- 92.97	39.96
116 Toluene					CAS #: 108-88-3		
7.059	7.059 (1.225)	91	2046205	50.0000	50.992	80.00- 120.00	100.00
7.051	7.051 (1.224)	92	1212082			10.41- 110.41	59.24
123 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.302	7.302 (0.886)	75	970503	50.0000	47.649	80.00- 120.00	100.00
7.302	7.302 (0.886)	77	309979			0.00- 82.90	31.94
7.302	7.302 (0.886)	39	511460			5.93- 105.93	52.70
128 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.453	7.453 (0.904)	97	692451	50.0000	48.496	80.00- 120.00	100.00
7.453	7.453 (0.904)	99	431261			12.18- 112.18	62.28
7.453	7.453 (0.904)	83	613451			36.73- 136.73	88.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
131 Tetrachloroethene					CAS #: 127-18-4		
7.496	7.496 (0.910)	166	880298	50.0000	47.630	80.00- 120.00	100.00
7.496	7.496 (0.910)	129	696019			28.04- 128.04	79.07
7.496	7.496 (0.910)	131	645817			22.71- 122.71	73.36
135 2-Hexanone					CAS #: 591-78-6		
7.632	7.632 (0.926)	58	798486	50.0000	51.131	80.00- 120.00	100.00
7.632	7.632 (0.926)	43	1575924			147.09- 247.09	197.36
7.632	7.632 (0.926)	100	152354			0.00- 70.49	19.08
138 Dibromochloromethane					CAS #: 124-48-1		
7.768	7.768 (0.943)	129	1115536	50.0000	48.750	80.00- 120.00	100.00
7.768	7.768 (0.943)	127	860611			27.79- 127.79	77.15
140 1,2-Dibromoethane					CAS #: 106-93-4		
7.882	7.882 (0.957)	107	1071006	50.0000	50.230	80.00- 120.00	100.00
7.882	7.882 (0.957)	109	1026401			45.62- 145.62	95.84
145 Chlorobenzene					CAS #: 108-90-7		
8.262	8.262 (1.003)	112	1596573	50.0000	50.510	80.00- 120.00	100.00
8.262	8.262 (1.003)	114	513024			0.00- 82.30	32.13
8.262	8.262 (1.003)	77	929896			21.61- 121.61	58.24
147 Ethyl Benzene					CAS #: 100-41-4		
8.319	8.319 (1.010)	106	836140	50.0000	50.487	80.00- 120.00	100.00
8.319	8.319 (1.010)	91	2538595			253.16- 353.16	303.61
150 m,p-Xylene					CAS #: 108-38-3		
8.420	8.420 (1.022)	106	1026724	50.0000	50.669	80.00- 120.00	100.00
8.420	8.420 (1.022)	91	1985571			149.33- 249.33	193.39
153 o-Xylene					CAS #: 95-47-6		
8.763	8.763 (1.063)	106	964849	50.0000	52.238	80.00- 120.00	100.00
8.763	8.763 (1.063)	91	1953959			156.46- 256.46	202.51
154 Styrene					CAS #: 100-42-5		
8.785	8.785 (1.066)	104	1606659	50.0000	52.897	80.00- 120.00	100.00
8.778	8.778 (1.065)	78	787697			1.45- 101.45	49.03
155 Bromoform					CAS #: 75-25-2		
8.971	8.971 (1.089)	173	944162	50.0000	49.011	80.00- 120.00	100.00
8.971	8.971 (1.089)	171	486852			2.03- 102.03	51.56
156 Cumene					CAS #: 98-82-8		
9.057	9.057 (1.099)	105	2756191	50.0000	53.069	80.00- 120.00	100.00
9.057	9.057 (1.099)	120	791482			0.00- 78.61	28.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 Cumene (continued)							
9.050	9.050 (1.098)	51	283573			0.00- 61.59	10.29
161 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.365	9.365 (1.136)	83	1513706	50.0000	55.296	80.00- 120.00	100.00
9.365	9.365 (1.136)	85	986871			13.91- 113.91	65.20
162 Propylbenzene					CAS #: 103-65-1		
9.401	9.401 (1.141)	91	3327391	50.0000	55.652	80.00- 120.00	100.00
9.401	9.401 (1.141)	120	799216			0.00- 73.78	24.02
9.401	9.401 (1.141)	105	121414			0.00- 53.86	3.65
163 4-Ethyltoluene					CAS #: 622-96-8		
9.494	9.494 (1.152)	120	901814	50.0000	53.285	80.00- 120.00	100.00
9.494	9.494 (1.152)	105	2816630			258.07- 358.07	312.33
164 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.551	9.551 (1.159)	120	1183942	50.0000	54.135	80.00- 120.00	100.00
9.551	9.551 (1.159)	105	2244291			144.84- 244.84	189.56
166 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
9.874	9.874 (1.198)	120	1072897	50.0000	52.460	80.00- 120.00	100.00
9.874	9.874 (1.198)	105	2159388			155.69- 255.69	201.27
168 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.153	10.153 (1.232)	146	1496486	50.0000	50.553	80.00- 120.00	100.00
10.153	10.153 (1.232)	148	977783			13.04- 113.04	65.34
10.153	10.153 (1.232)	111	610969			0.00- 90.17	40.83
169 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.232	10.232 (1.242)	146	1528735	50.0000	52.617	80.00- 120.00	100.00
10.232	10.232 (1.242)	148	979801			14.53- 114.53	64.09
10.232	10.232 (1.242)	111	596763			0.00- 90.65	39.04
170 alpha-Chlorotoluene					CAS #: 100-44-7		
10.354	10.354 (1.256)	91	2059542	50.0000	50.239	80.00- 120.00	100.00
10.354	10.354 (1.256)	126	456745			0.00- 71.45	22.18
171 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.561	10.561 (1.282)	146	1374735	50.0000	52.721	80.00- 120.00	100.00
10.561	10.561 (1.282)	148	887473			14.08- 114.08	64.56
10.554	10.554 (1.281)	111	579727			0.00- 94.71	42.17
174 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.929	11.929 (1.448)	180	993155	50.0000	48.605	80.00- 120.00	100.00
11.929	11.929 (1.448)	182	948624			45.73- 145.73	95.52

			AMOUNTS				
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
175 Hexachlorobutadiene					CAS #: 87-68-3		
12.015	12.015 (1.458)	225	563977	50.0000	43.239	80.00- 120.00	100.00
12.015	12.015 (1.458)	223	361761			17.13- 117.13	64.14
176 Naphthalene					CAS #: 91-20-3		
12.173	12.173 (1.477)	128	547561	5.00000	5.866	80.00- 120.00	100.00
12.173	12.173 (1.477)	127	66743			0.00- 62.50	12.19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3052702.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: acb
Method File: /var/chem/msd3.i/27may10.b/310q0520a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 27-MAY-2010
Calibration Time: 09:24
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	258488	155093	361883	258488	0.00
97 1,4-Difluorobenze	894304	536582	1252026	894304	0.00
144 Chlorobenzene-d5	791587	474952	1108222	791587	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	4.85	4.52	5.18	4.85	0.00
97 1,4-Difluorobenze	5.76	5.43	6.09	5.76	0.00
144 Chlorobenzene-d5	8.24	7.91	8.57	8.24	0.00

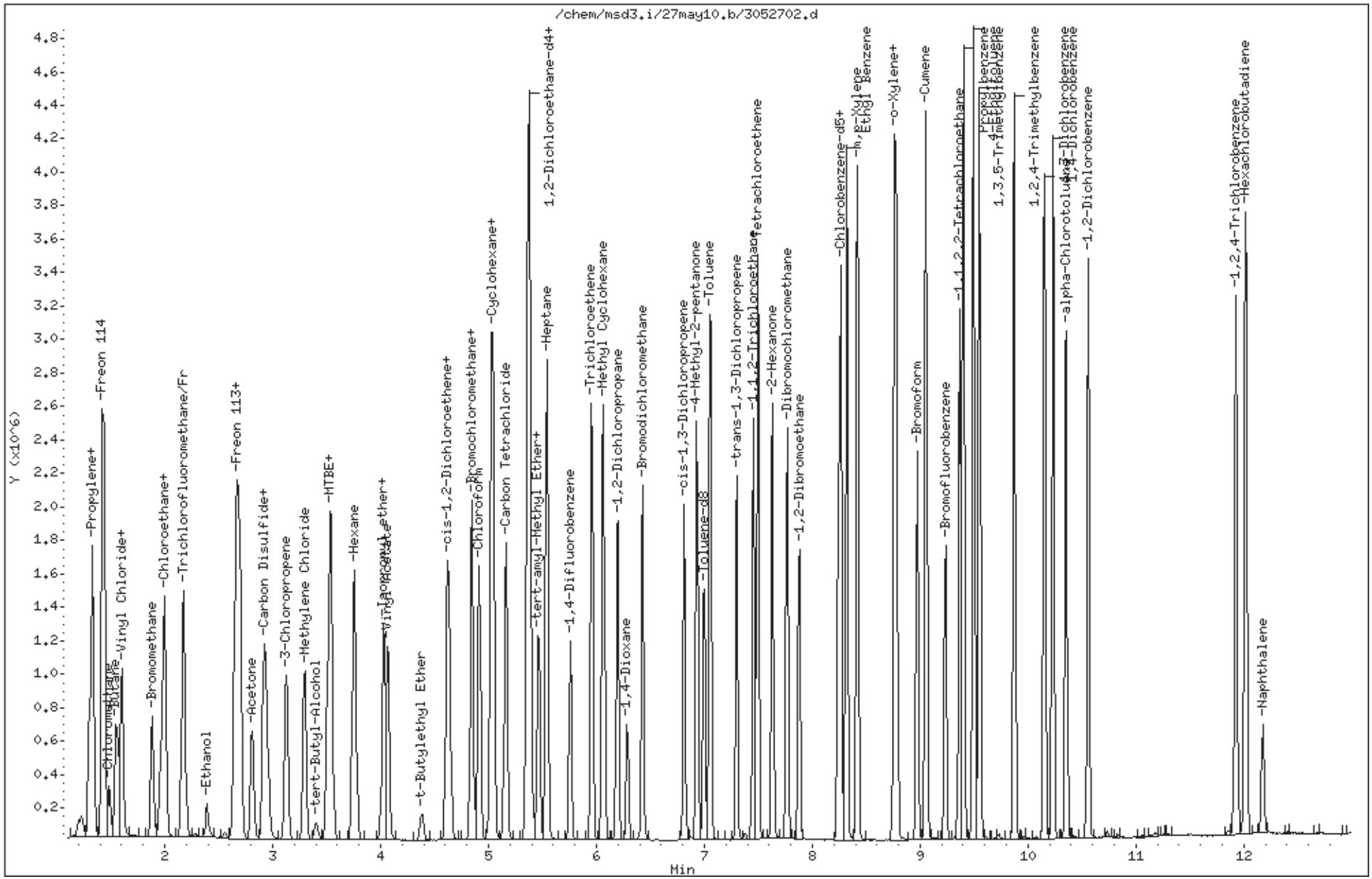
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/27may10.b/3052702.d
Date : 27-MAY-2010 09:24
Client ID: CCV
Sample Info: 200mL #1936-182

Instrument: msd3.i

Operator: acb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /var/chem/msd3.i/27may10.b/3052704.d
Lab Smp Id: TPHg Client Smp ID: CCV
Inj Date : 27-MAY-2010 10:28
Operator : acb Inst ID: msd3.i
Smp Info : 40mL #1936-166
Misc Info : 2500ppbv->500ppbv
Comment :
Method : /var/chem/msd3.i/27may10.b/310q0520a.m
Meth Date : 27-May-2010 09:34 Quant Type: AREA%
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
1.199	1996362	670231	0.336	3.58	UNKNOWN
1.437	105544	65446	0.620	0.19	6 Propylene
1.548	690312	250514	0.363	1.24	13 Butane
1.632	108935	37531	0.345	0.20	
1.702	109126	32338	0.296	0.20	
1.912	45696	12826	0.281	0.08	
1.996	2623402	1015181	0.387	4.70	11 Chloromethane
2.231	1078983	338982	0.314	1.93	42 Pentane
2.381	1132541	460494	0.407	2.03	29 Ethanol
2.474	201458	72827	0.361	0.36	Cyclopropane, 1,2-dime
2.539	638721	233460	0.366	1.14	Cyclopropane, 1,1-dime
2.667	297995	89083	0.299	0.53	Hexane, 2,4,4-trimethy
3.198	1566132	356305	0.228	2.81	Pentane, 2-methyl-
3.284	328994	92427	0.281	0.59	43 Methylene Chloride
3.470	575897	192452	0.334	1.03	46 tert-Butyl-Alcohol
3.677	123205	45121	0.366	0.22	
3.756	467675	193379	0.413	0.84	51 Hexane
3.878	94898	41000	0.432	0.17	
3.943	171597	71390	0.416	0.31	3-Hexene, (E)-
3.993	290267	127180	0.438	0.52	2-Pentene, 4-methyl-,
4.071	76312	38072	0.499	0.14	
4.143	74106	34529	0.466	0.13	
4.258	181995	77270	0.425	0.33	2-Pentene, 3-methyl-,
4.293	284661	96851	0.340	0.51	UNKNOWN

RT	AREA	HEIGHT	HT/AREA	% AREA			COMPOUNDS
4.387	444365	176457	0.397	0.80			Cyclobutane, ethyl-
4.458	72917	28016	0.384	0.13			
4.845	1721905	785827	0.456	3.08	*	76	Bromochloromethane
4.974	601732	271686	0.452	1.08		75	Tetrahydrofuran
5.046	550345	193474	0.352	0.99		80	Cyclohexane
5.139	719404	342879	0.477	1.29		74	2-Butanone
5.368	3641801	965413	0.265	6.52	$	89	1,2-Dichloroethane-d4
5.461	91859	42837	0.466	0.16			
5.540	580881	327558	0.564	1.04		94	Heptane
5.590	49748	26248	0.528	0.09			
5.683	183723	67328	0.366	0.33			2-Hexene, 3-methyl-, (
5.762	2150620	1302098	0.605	3.85	*	97	1,4-Difluorobenzene
5.805	36987	23105	0.625	0.07			
5.884	96044	31229	0.325	0.17			
6.048	559631	210099	0.375	1.00		104	Methyl Cyclohexane
6.091	374232	166483	0.445	0.67			Heptane, 4,4-dimethyl-
6.149	73014	35245	0.483	0.13			
6.228	87522	38260	0.437	0.16			
6.278	51714	22239	0.430	0.09			
6.407	806933	384727	0.477	1.45			Pentane, 2,3,4-trimeth
6.521	1018011	404082	0.397	1.82			Pentane, 2,3,3-trimeth
6.579	154005	122731	0.797	0.28			
6.707	482688	213174	0.442	0.86			Octane, 3,4-dimethyl-
6.836	302178	153859	0.509	0.54			Hexane, 2,2,4-trimethy
6.908	75400	29753	0.395	0.14			
7.001	2466388	1542487	0.625	4.42	$	115	Toluene-d8
7.058	5512375	3285940	0.596	9.84		112	cis-1,3-Dichloropropen
7.209	26967	13227	0.490	0.05			
7.323	132862	53353	0.402	0.24		128	1,1,2-Trichloroethane
7.388	36493	21715	0.595	0.07			
7.467	42101	22003	0.523	0.08			
7.567	89023	37722	0.424	0.16			
7.710	34679	19292	0.556	0.06			
7.746	25587	12642	0.494	0.05			
7.861	51653	24872	0.482	0.09			
7.925	166006	91337	0.550	0.30			
8.025	84432	56085	0.664	0.15			
8.097	28917	11785	0.408	0.05			
8.240	2414616	1655043	0.685	4.33	*	144	Chlorobenzene-d5
8.319	1093883	714742	0.653	1.96		140	1,2-Dibromoethane
8.419	3897942	2670294	0.685	6.98		150	m,p-Xylene
8.584	22117	11369	0.514	0.04			
8.656	26318	10967	0.417	0.05			
8.763	1409093	910497	0.646	2.52		153	o-Xylene
9.050	140295	71687	0.511	0.25		156	Cumene
9.107	95476	46685	0.489	0.17			
9.229	2625599	1794603	0.684	4.70	$	159	Bromofluorobenzene
9.272	30835	18597	0.603	0.06			
9.394	338969	217652	0.642	0.61		162	Propylbenzene
9.465	1650500	780814	0.473	2.96		163	4-Ethyltoluene

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.544	580169	384014	0.662	1.04	164 1,3,5-Trimethylbenzene
9.723	446729	273597	0.612	0.80	Benzene, 1-ethyl-2-met
9.866	1666484	1103121	0.662	2.99	166 1,2,4-Trimethylbenzene
9.959	94959	45787	0.482	0.17	
10.067	61398	27640	0.450	0.11	
10.167	152050	52514	0.345	0.27	
10.232	360705	209673	0.581	0.65	Benzene, 1-ethyl-3-met
10.382	270825	97666	0.361	0.49	Benzene, 1-methyl-3-pr
10.411	145219	87998	0.606	0.26	
10.432	311255	154813	0.497	0.56	170 alpha-Chlorotoluene
10.547	52605	27001	0.513	0.09	
10.604	51694	33002	0.638	0.09	
10.676	106560	60558	0.568	0.19	
10.704	83728	53150	0.635	0.15	
10.762	128972	90715	0.703	0.23	
10.883	62104	26156	0.421	0.11	
11.027	36307	18619	0.513	0.07	
11.106	80312	45925	0.572	0.14	
11.156	92003	57287	0.623	0.16	
11.392	37751	23629	0.626	0.07	
11.535	64021	23065	0.360	0.11	
11.829	24318	9779	0.402	0.04	
11.908	95017	45482	0.479	0.17	
12.001	71912	39290	0.546	0.13	
12.151	57491	28440	0.495	0.10	176 Naphthalene
12.617	57998	18996	0.328	0.10	
	55828185	28143023		100.000	

Total unknown % area = 27.030

$$\frac{55828185 - 1996362 - 11012820}{83884.11} = \frac{510}{500} = 102\%$$

DDS
5/27/10

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005453A-18B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 09:28 AM**	

Compound	%Recovery
Freon 12	116
Freon 114	105
Chloromethane	122
Vinyl Chloride	96
1,3-Butadiene	113
Bromomethane	121
Chloroethane	123
Freon 11	101
Ethanol	124
Freon 113	98
1,1-Dichloroethene	106
Acetone	114
2-Propanol	109
Carbon Disulfide	117
3-Chloropropene	112
Methylene Chloride	117
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	109
Hexane	103
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	98
Tetrahydrofuran	98
Chloroform	96
1,1,1-Trichloroethane	89
Cyclohexane	94
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	97
Benzene	110
1,2-Dichloroethane	104
Heptane	106
Trichloroethene	100
1,2-Dichloropropane	103
1,4-Dioxane	98
Bromodichloromethane	96
cis-1,3-Dichloropropene	95
4-Methyl-2-pentanone	99
Toluene	101
trans-1,3-Dichloropropene	96

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1005453A-18B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 09:28 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	98
Tetrachloroethene	95
2-Hexanone	101
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	102
Chlorobenzene	102
Ethyl Benzene	100
m,p-Xylene	102
o-Xylene	104
Styrene	105
Bromoform	96
Cumene	106
1,1,2,2-Tetrachloroethane	110
Propylbenzene	111
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	86
TPH ref. to Gasoline (MW=100)	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 28-MAY-2010 09:28
Lab File ID: 3052802.d Init. Cal. Date(s): 20-MAY-2010 21-MAY-2010
Analysis Type: AIR Init. Cal. Times: 11:15 17:00
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/28may10.b/310q0520a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 89 1,2-Dichloroethane-d4	1.36656	1.29053	0.010	5.56307	30.00000	Averaged
$ 115 Toluene-d8	0.96315	0.98791	0.010	-2.57053	30.00000	Averaged
$ 159 Bromofluorobenzene	0.51371	0.51041	0.010	0.64121	30.00000	Averaged
6 Propylene	0.75432	0.90097	0.010	-19.44202	30.00000	Averaged
7 Dichlorodifluoromethane/Fr1	2.56017	2.96314	0.010	-15.73984	30.00000	Averaged
10 Freon 114	2.05047	2.15125	0.010	-4.91490	30.00000	Averaged
11 Chloromethane	0.46423	0.56649	0.010	-22.02631	30.00000	Averaged
13 Butane	0.16698	0.11941	0.010	28.48766	40.00000	Averaged
14 Vinyl Chloride	0.70947	0.68147	0.010	3.94592	30.00000	Averaged
15 1,3-Butadiene	0.76346	0.86574	0.010	-13.39682	30.00000	Averaged
21 Bromomethane	0.91355	1.10779	0.010	-21.26204	30.00000	Averaged
24 Chloroethane	0.57914	0.71387	0.010	-23.26374	30.00000	Averaged
25 Isopentane	1.41295	1.55694	0.010	-10.19061	40.00000	Averaged
28 Trichlorofluoromethane/Fr11	2.81488	2.84489	0.010	-1.06612	30.00000	Averaged
29 Ethanol	0.35689	0.44090	0.010	-23.53719	30.00000	Averaged
30 Freon 113	1.87724	1.84494	0.010	1.72100	30.00000	Averaged
32 1,1-Dichloroethene	1.07653	1.13974	0.010	-5.87187	30.00000	Averaged
34 Acetone	0.47797	0.54668	0.010	-14.37568	30.00000	Averaged
35 Carbon Disulfide	2.84805	3.32359	0.010	-16.69717	30.00000	Averaged
37 2-Propanol	1.83915	2.00745	0.010	-9.15053	30.00000	Averaged
41 3-Chloropropene	0.48983	0.54623	0.010	-11.51287	30.00000	Averaged
43 Methylene Chloride	1.13105	1.32646	0.010	-17.27668	30.00000	Averaged
46 tert-Butyl-Alcohol	0.32952	0.26726	0.010	18.89338	40.00000	Averaged
47 MTBE	2.74216	2.98414	0.010	-8.82409	30.00000	Averaged
48 trans-1,2-Dichloroethene	0.73129	0.79453	0.010	-8.64759	30.00000	Averaged
51 Hexane	1.77800	1.82531	0.010	-2.66115	30.00000	Averaged
58 Isopropyl ether	5.08992	5.11693	0.010	-0.53064	40.00000	Averaged
59 1,1-Dichloroethane	2.12766	2.23619	0.010	-5.10096	30.00000	Averaged
61 Vinyl Acetate	0.30463	0.31154	0.010	-2.27046	40.00000	Averaged
68 t-Butylethyl Ether	3.16923	3.70815	0.010	-17.00491	40.00000	Averaged
73 cis-1,2-Dichloroethene	0.79943	0.77955	0.010	2.48666	30.00000	Averaged
74 2-Butanone	0.64025	0.62921	0.010	1.72377	30.00000	Averaged
75 Tetrahydrofuran	1.54421	1.51990	0.010	1.57411	30.00000	Averaged
78 Chloroform	2.48391	2.37286	0.010	4.47050	30.00000	Averaged
80 Cyclohexane	1.68971	1.59420	0.010	5.65269	30.00000	Averaged
81 1,1,1-Trichloroethane	2.48609	2.20513	0.010	11.30125	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 28-MAY-2010 09:28
Lab File ID: 3052802.d Init. Cal. Date(s): 20-MAY-2010 21-MAY-2010
Analysis Type: AIR Init. Cal. Times: 11:15 17:00
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/28may10.b/310q0520a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
82 Carbon Tetrachloride	2.42204	2.10118	0.010	13.24748	30.00000	Averaged
87 2,2,4-Trimethylpentane	5.70236	5.52063	0.010	3.18700	30.00000	Averaged
88 Benzene	0.95366	1.05176	0.010	-10.28728	30.00000	Averaged
92 tert-amyl-Methyl Ether	2.95273	3.27970	0.010	-11.07328	40.00000	Averaged
93 1,2-Dichloroethane	0.44380	0.46178	0.010	-4.05105	30.00000	Averaged
94 Heptane	0.36484	0.38624	0.010	-5.86619	30.00000	Averaged
102 Trichloroethene	0.43171	0.43009	0.010	0.37534	30.00000	Averaged
104 Methyl Cyclohexane	2.22990	1.97932	0.010	11.23721	40.00000	Averaged
106 1,2-Dichloropropane	0.37334	0.38557	0.010	-3.27747	30.00000	Averaged
107 1,4-Dioxane	0.23150	0.22613	0.010	2.32075	30.00000	Averaged
109 Bromodichloromethane	0.68505	0.65743	0.010	4.03276	30.00000	Averaged
112 cis-1,3-Dichloropropene	0.55271	0.52475	0.010	5.05844	30.00000	Averaged
114 4-Methyl-2-pentanone	0.31565	0.31371	0.010	0.61454	30.00000	Averaged
116 Toluene	1.12176	1.13682	0.010	-1.34264	30.00000	Averaged
123 trans-1,3-Dichloropropene	0.64326	0.61486	0.010	4.41443	30.00000	Averaged
128 1,1,2-Trichloroethane	0.45095	0.44053	0.010	2.30922	30.00000	Averaged
131 Tetrachloroethene	0.58369	0.55691	0.010	4.58781	30.00000	Averaged
135 2-Hexanone	0.49320	0.50031	0.010	-1.44146	30.00000	Averaged
138 Dibromochloromethane	0.72269	0.70103	0.010	2.99728	30.00000	Averaged
140 1,2-Dibromoethane	0.67340	0.68535	0.010	-1.77442	30.00000	Averaged
145 Chlorobenzene	0.99828	1.01358	0.010	-1.53252	30.00000	Averaged
147 Ethyl Benzene	0.52304	0.52452	0.010	-0.28279	30.00000	Averaged
150 m,p-Xylene	0.63996	0.65192	0.010	-1.86878	30.00000	Averaged
153 o-Xylene	0.58333	0.60792	0.010	-4.21701	30.00000	Averaged
154 Styrene	0.95925	1.00869	0.010	-5.15412	30.00000	Averaged
155 Bromoform	0.60840	0.58592	0.010	3.69455	30.00000	Averaged
156 Cumene	1.64025	1.74441	0.010	-6.35049	30.00000	Averaged
161 1,1,2,2-Tetrachloroethane	0.86454	0.95290	0.010	-10.22036	30.00000	Averaged
162 Propylbenzene	1.88829	2.10240	0.010	-11.33911	30.00000	Averaged
163 4-Ethyltoluene	0.53451	0.57821	0.010	-8.17697	30.00000	Averaged
164 1,3,5-Trimethylbenzene	0.69070	0.74455	0.010	-7.79590	30.00000	Averaged
166 1,2,4-Trimethylbenzene	0.64591	0.67696	0.010	-4.80811	30.00000	Averaged
168 1,3-Dichlorobenzene	0.93491	0.94779	0.010	-1.37803	30.00000	Averaged
169 1,4-Dichlorobenzene	0.91759	0.96085	0.010	-4.71457	30.00000	Averaged
170 alpha-Chlorotoluene	1.29470	1.29360	0.010	0.08460	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 28-MAY-2010 09:28
Lab File ID: 3052802.d Init. Cal. Date(s): 20-MAY-2010 21-MAY-2010
Analysis Type: AIR Init. Cal. Times: 11:15 17:00
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/28may10.b/310q0520a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
171 1,2-Dichlorobenzene	0.82353	0.86500	0.010	-5.03637	30.00000	Averaged
174 1,2,4-Trichlorobenzene	0.64533	0.61753	0.010	4.30677	30.00000	Averaged
175 Hexachlorobutadiene	0.41193	0.35452	0.010	13.93784	30.00000	Averaged
176 Naphthalene	2.94824	3.48932	0.010	-18.35266	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052802.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 28-MAY-2010 09:28
Operator : cr Inst ID: msd3.i
Smp Info : 200mL #1936-182
Misc Info : 200ppbv->50ppbv
Comment :
Method : /var/chem/msd3.i/28may10.b/310q0520a.m
Meth Date : 28-May-2010 10:00 croush Quant Type: ISTD
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 76 Bromochloromethane					CAS #: 74-97-5		
4.845	4.845 (1.000)	130	258568	25.0000		80.00- 120.00	100.00
4.845	4.845 (1.000)	128	201700			28.10- 128.10	78.01
4.845	4.845 (1.000)	49	365160			81.21- 181.21	141.22
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
5.762	5.762 (1.000)	114	878539	25.0000		80.00- 120.00	100.00
5.755	5.762 (1.000)	88	139951			0.00- 66.01	15.93
* 144 Chlorobenzene-d5					CAS #: 3114-55-4		
8.240	8.240 (1.000)	117	772301	25.0000		80.00- 120.00	100.00
8.240	8.240 (1.000)	82	428603			6.08- 106.08	55.50
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.397	5.397 (1.114)	65	333691	25.0000	23.609	80.00- 120.00	100.00
5.397	5.397 (1.114)	67	195756			4.53- 104.53	58.66
$ 115 Toluene-d8					CAS #: 2037-26-5		
6.994	6.994 (1.214)	98	867914	25.0000	25.643	80.00- 120.00	100.00
6.994	6.994 (1.214)	70	98434			0.00- 61.77	11.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 115 Toluene-d8 (continued)							
6.994	6.994 (1.214)	100	581467			17.54- 117.54	67.00
$ 159 Bromofluorobenzene					CAS #: 460-00-4		
9.236	9.236 (1.121)	174	394194	25.0000	24.840	80.00- 120.00	100.00
9.229	9.236 (1.120)	95	560515			89.80- 189.80	142.19
9.236	9.236 (1.121)	176	383140			47.30- 147.30	97.20
6 Propylene					CAS #: 115-07-1		
1.311	1.311 (0.270)	41	465924	50.0000	59.721	80.00- 120.00	100.00
1.311	1.311 (0.270)	42	312714			16.29- 116.29	67.12
1.311	1.311 (0.270)	39	351447			25.67- 125.67	75.43
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.325	1.325 (0.273)	85	1532347	50.0000	57.870	80.00- 120.00	100.00
1.325	1.325 (0.273)	87	497597			0.00- 83.16	32.47
10 Freon 114					CAS #: 76-14-2		
1.437	1.437 (0.296)	135	1112487	50.0000	52.457	80.00- 120.00	100.00
1.437	1.437 (0.296)	137	358622			0.00- 81.19	32.24
11 Chloromethane					CAS #: 74-87-3		
1.478	1.478 (0.305)	50	292951	50.0000	61.013	80.00- 120.00	100.00
1.478	1.478 (0.305)	52	101431			0.00- 89.83	34.62
13 Butane					CAS #: 106-97-8		
1.548	1.548 (0.320)	58	61751	50.0000	35.756	80.00- 120.00	100.00
1.548	1.548 (0.320)	43	460588			671.03- 771.03	745.88
14 Vinyl Chloride					CAS #: 75-01-4		
1.576	1.576 (0.325)	62	352415	50.0000	48.027	80.00- 120.00	100.00
1.576	1.576 (0.325)	64	129233			9.16- 109.16	36.67
15 1,3-Butadiene					CAS #: 106-99-0		
1.604	1.604 (0.331)	54	447705	50.0000	56.698	80.00- 120.00	100.00
1.604	1.604 (0.331)	39	499577			86.04- 186.04	111.59
21 Bromomethane					CAS #: 74-83-9		
1.884	1.884 (0.389)	94	572880	50.0000	60.631	80.00- 120.00	100.00
1.884	1.884 (0.389)	96	536866			43.85- 143.85	93.71
24 Chloroethane					CAS #: 75-00-3		
1.968	1.968 (0.406)	64	369166	50.0000	61.632	80.00- 120.00	100.00
1.968	1.968 (0.406)	66	104619			0.00- 91.47	28.34
1.968	1.968 (0.406)	49	96203			0.00- 76.92	26.06

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
25 Isopentane					CAS #: 78-78-4		
1.996	1.996 (0.412)	43	805148	50.0000	55.095	80.00- 120.00	100.00
1.996	1.996 (0.412)	57	553330			17.32- 117.32	68.72
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.173	2.173 (0.449)	101	1471197	50.0000	50.533	80.00- 120.00	100.00
2.173	2.173 (0.449)	103	964291			16.11- 116.11	65.54
29 Ethanol					CAS #: 64-17-5		
2.388	2.388 (0.493)	45	228003	50.0000	61.768	80.00- 120.00	100.00
2.388	2.388 (0.493)	43	49518			0.00- 70.33	21.72
2.388	2.388 (0.493)	46	92682			0.00- 85.62	40.65
30 Freon 113					CAS #: 76-13-1		
2.660	2.660 (0.549)	151	954083	50.0000	49.139	80.00- 120.00	100.00
2.668	2.660 (0.551)	153	610704			15.27- 115.27	64.01
2.668	2.660 (0.551)	101	1242489			70.04- 170.04	130.23
32 1,1-Dichloroethene					CAS #: 75-35-4		
2.696	2.696 (0.556)	96	589401	50.0000	52.936	80.00- 120.00	100.00
2.696	2.696 (0.556)	98	382119			13.42- 113.42	64.83
2.696	2.696 (0.556)	61	973534			102.48- 202.48	165.17
34 Acetone					CAS #: 67-64-1		
2.811	2.811 (0.580)	58	282707	50.0000	57.188	80.00- 120.00	100.00
2.811	2.811 (0.580)	43	947439			294.99- 394.99	335.13
35 Carbon Disulfide					CAS #: 75-15-0		
2.918	2.918 (0.602)	76	1718749	50.0000	58.348	80.00- 120.00	100.00
37 2-Propanol					CAS #: 67-63-0		
2.947	2.947 (0.608)	45	1038123	50.0000	54.575	80.00- 120.00	100.00
2.947	2.947 (0.608)	43	213675			0.00- 68.53	20.58
2.947	2.947 (0.608)	59	39083			0.00- 53.71	3.76
41 3-Chloropropene					CAS #: 107-05-1		
3.126	3.126 (0.645)	76	282473	50.0000	55.756	80.00- 120.00	100.00
3.126	3.126 (0.645)	41	822403			233.43- 333.43	291.14
43 Methylene Chloride					CAS #: 75-09-2		
3.298	3.298 (0.681)	49	685959	50.0000	58.638	80.00- 120.00	100.00
3.298	3.298 (0.681)	84	530845			30.55- 130.55	77.39
3.298	3.298 (0.681)	51	206992			0.00- 78.00	30.18
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.405	3.405 (0.703)	57	13821	5.00000	4.055	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.398	3.405 (0.701)	41	34130			51.88- 151.88	246.94
3.405	3.405 (0.703)	59	135222			274.92- 374.92	978.38
47 MTBE					CAS #: 1634-04-4		
3.520	3.520 (0.726)	73	1543204	50.0000	54.412	80.00- 120.00	100.00
3.520	3.520 (0.726)	57	352405			0.00- 69.69	22.84
3.520	3.520 (0.726)	41	379252			0.00- 74.36	24.58
48 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.541	3.541 (0.731)	98	410878	50.0000	54.324	80.00- 120.00	100.00
3.541	3.541 (0.731)	61	923931			165.89- 265.89	224.87
3.541	3.541 (0.731)	96	641978			102.74- 202.74	156.25
51 Hexane					CAS #: 110-54-3		
3.756	3.756 (0.775)	57	943936	50.0000	51.330	80.00- 120.00	100.00
3.756	3.756 (0.775)	43	648034			20.84- 120.84	68.65
3.756	3.756 (0.775)	86	158454			0.00- 67.84	16.79
58 Isopropyl ether					CAS #: 108-20-3		
4.021	4.021 (0.830)	45	264615	5.00000	5.026	80.00- 120.00	100.00
4.021	4.021 (0.830)	87	75510			0.00- 82.08	28.54
4.021	4.021 (0.830)	59	31106			0.00- 62.26	11.76
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.028	4.028 (0.831)	63	1156414	50.0000	52.550	80.00- 120.00	100.00
4.028	4.028 (0.831)	65	367720			0.00- 82.97	31.80
61 Vinyl Acetate					CAS #: 108-05-4		
4.064	4.064 (0.839)	86	161110	50.0000	51.135	80.00- 120.00	100.00
4.064	4.064 (0.839)	43	1841123			1048.02-1148.02	1142.77
68 t-Butylethyl Ether					CAS #: 637-92-3		
4.387	4.387 (0.905)	59	191762	5.00000	5.850	80.00- 120.00	100.00
4.387	4.387 (0.905)	87	74335			0.00- 92.49	38.76
4.379	4.387 (0.904)	41	43092			0.00- 68.70	22.47
73 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.616	4.616 (0.953)	98	403134	50.0000	48.757	80.00- 120.00	100.00
4.616	4.616 (0.953)	96	632277			107.00- 207.00	156.84
4.616	4.616 (0.953)	61	852459			156.77- 256.77	211.46
74 2-Butanone					CAS #: 78-93-3		
4.637	4.637 (0.957)	72	325388	50.0000	49.138	80.00- 120.00	100.00
4.637	4.637 (0.957)	43	1385776			367.38- 467.38	425.88
4.637	4.637 (0.957)	57	102198			0.00- 82.47	31.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrahydrofuran					CAS #: 109-99-9		
4.845	4.845 (1.000)	42	785997	50.0000	49.213	80.00- 120.00	100.00
4.845	4.845 (1.000)	71	285538			0.00- 85.96	36.33
4.845	4.845 (1.000)	72	310259			0.00- 88.91	39.47
78 Chloroform					CAS #: 67-66-3		
4.917	4.917 (1.015)	83	1227093	50.0000	47.765	80.00- 120.00	100.00
4.910	4.917 (1.013)	85	803513			15.14- 115.14	65.48
80 Cyclohexane					CAS #: 110-82-7		
5.024	5.024 (1.037)	84	824417	50.0000	47.174	80.00- 120.00	100.00
5.024	5.024 (1.037)	56	986155			68.72- 168.72	119.62
5.024	5.024 (1.037)	41	578742			19.25- 119.25	70.20
81 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.046	5.046 (1.041)	97	1140351	50.0000	44.349	80.00- 120.00	100.00
5.046	5.046 (1.041)	99	736955			13.46- 113.46	64.63
82 Carbon Tetrachloride					CAS #: 56-23-5		
5.160	5.160 (1.065)	119	1086596	50.0000	43.376	80.00- 120.00	100.00
5.160	5.160 (1.065)	117	1129527			53.73- 153.73	103.95
87 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.368	5.368 (1.108)	57	2854915	50.0000	48.406	80.00- 120.00	100.00
5.368	5.368 (1.108)	56	958956			0.00- 83.36	33.59
5.368	5.368 (1.108)	41	767232			0.00- 79.00	26.87
88 Benzene					CAS #: 71-43-2		
5.375	5.375 (0.933)	78	1848027	50.0000	55.144	80.00- 120.00	100.00
5.375	5.375 (0.933)	77	439593			0.00- 75.11	23.79
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.454	5.454 (1.126)	73	169605	5.00000	5.554	80.00- 120.00	100.00
5.454	5.454 (1.126)	87	36838			0.00- 73.83	21.72
5.454	5.454 (1.126)	55	48011			0.00- 76.83	28.31
93 1,2-Dichloroethane					CAS #: 107-06-2		
5.461	5.461 (0.948)	62	811376	50.0000	52.026	80.00- 120.00	100.00
5.461	5.461 (0.948)	64	268911			0.00- 84.79	33.14
94 Heptane					CAS #: 142-82-5		
5.540	5.540 (0.961)	71	678656	50.0000	52.933	80.00- 120.00	100.00
5.540	5.540 (0.961)	43	1234507			135.14- 235.14	181.90
5.540	5.540 (0.961)	57	613596			42.76- 142.76	90.41
102 Trichloroethene					CAS #: 79-01-6		
5.955	5.955 (1.034)	95	755709	50.0000	49.812	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
102 Trichloroethene (continued)							
5.955	5.955 (1.034)	130	772935			51.95- 151.95	102.28
5.955	5.955 (1.034)	97	486684			13.87- 113.87	64.40
104 Methyl Cyclohexane					CAS #: 108-87-2		
6.063	6.063 (1.251)	83	1023578	50.0000	44.381	80.00- 120.00	100.00
6.063	6.063 (1.251)	98	489445			0.00- 99.36	47.82
6.063	6.063 (1.251)	55	857269			32.31- 132.31	83.75
106 1,2-Dichloropropane					CAS #: 78-87-5		
6.199	6.199 (1.076)	63	677484	50.0000	51.639	80.00- 120.00	100.00
6.199	6.199 (1.076)	62	492180			19.50- 119.50	72.65
6.192	6.199 (1.075)	41	397634			12.61- 112.61	58.69
107 1,4-Dioxane					CAS #: 123-91-1		
6.285	6.285 (1.091)	88	397326	50.0000	48.840	80.00- 120.00	100.00
6.285	6.285 (1.091)	58	295175			22.28- 122.28	74.29
6.285	6.285 (1.091)	57	94361			0.00- 73.35	23.75
109 Bromodichloromethane					CAS #: 75-27-4		
6.428	6.428 (1.116)	83	1155152	50.0000	47.984	80.00- 120.00	100.00
6.428	6.428 (1.116)	85	736874			13.18- 113.18	63.79
112 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.815	6.815 (1.183)	75	922023	50.0000	47.471	80.00- 120.00	100.00
6.815	6.815 (1.183)	77	295828			0.00- 81.33	32.08
6.815	6.815 (1.183)	39	503736			7.75- 107.75	54.63
114 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.930	6.930 (1.203)	58	551216	50.0000	49.693	80.00- 120.00	100.00
6.930	6.930 (1.203)	43	1549155			229.92- 329.92	281.04
6.930	6.930 (1.203)	85	221662			0.00- 92.97	40.21
116 Toluene					CAS #: 108-88-3		
7.051	7.051 (1.224)	91	1997489	50.0000	50.671	80.00- 120.00	100.00
7.051	7.051 (1.224)	92	1177499			10.41- 110.41	58.95
123 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.302	7.302 (0.886)	75	949721	50.0000	47.793	80.00- 120.00	100.00
7.302	7.302 (0.886)	77	304913			0.00- 82.90	32.11
7.302	7.302 (0.886)	39	498079			5.93- 105.93	52.44
128 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.452	7.452 (0.904)	97	680450	50.0000	48.845	80.00- 120.00	100.00
7.452	7.452 (0.904)	99	423704			12.18- 112.18	62.27
7.452	7.452 (0.904)	83	601420			36.73- 136.73	88.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
131 Tetrachloroethene					CAS #: 127-18-4		
7.495	7.495 (0.910)	166	860212	50.0000	47.706	80.00- 120.00	100.00
7.495	7.495 (0.910)	129	670741			28.04- 128.04	77.97
7.495	7.495 (0.910)	131	627617			22.71- 122.71	72.96
135 2-Hexanone					CAS #: 591-78-6		
7.632	7.632 (0.926)	58	772776	50.0000	50.721	80.00- 120.00	100.00
7.632	7.632 (0.926)	43	1525948			147.09- 247.09	197.46
7.632	7.632 (0.926)	100	150249			0.00- 70.49	19.44
138 Dibromochloromethane					CAS #: 124-48-1		
7.768	7.768 (0.943)	129	1082815	50.0000	48.501	80.00- 120.00	100.00
7.768	7.768 (0.943)	127	837168			27.79- 127.79	77.31
140 1,2-Dibromoethane					CAS #: 106-93-4		
7.875	7.875 (0.956)	107	1058594	50.0000	50.887	80.00- 120.00	100.00
7.875	7.875 (0.956)	109	1005439			45.62- 145.62	94.98
145 Chlorobenzene					CAS #: 108-90-7		
8.262	8.262 (1.003)	112	1565572	50.0000	50.766	80.00- 120.00	100.00
8.262	8.262 (1.003)	114	501145			0.00- 82.30	32.01
8.262	8.262 (1.003)	77	914410			21.61- 121.61	58.41
147 Ethyl Benzene					CAS #: 100-41-4		
8.319	8.319 (1.010)	106	810179	50.0000	50.141	80.00- 120.00	100.00
8.319	8.319 (1.010)	91	2465053			253.16- 353.16	304.26
150 m,p-Xylene					CAS #: 108-38-3		
8.419	8.419 (1.022)	106	1006952	50.0000	50.934	80.00- 120.00	100.00
8.419	8.419 (1.022)	91	1934981			149.33- 249.33	192.16
153 o-Xylene					CAS #: 95-47-6		
8.763	8.763 (1.063)	106	939002	50.0000	52.108	80.00- 120.00	100.00
8.763	8.763 (1.063)	91	1894012			156.46- 256.46	201.70
154 Styrene					CAS #: 100-42-5		
8.778	8.778 (1.065)	104	1558030	50.0000	52.577	80.00- 120.00	100.00
8.778	8.778 (1.065)	78	758560			1.45- 101.45	48.69
155 Bromoform					CAS #: 75-25-2		
8.971	8.971 (1.089)	173	905019	50.0000	48.153	80.00- 120.00	100.00
8.971	8.971 (1.089)	171	467968			2.03- 102.03	51.71
156 Cumene					CAS #: 98-82-8		
9.050	9.050 (1.098)	105	2694419	50.0000	53.175	80.00- 120.00	100.00
9.050	9.050 (1.098)	120	768794			0.00- 78.61	28.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 Cumene (continued)							
9.050	9.050 (1.098)	51	283363			0.00- 61.59	10.52
161 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.365	9.365 (1.136)	83	1471856	50.0000	55.110	80.00- 120.00	100.00
9.365	9.365 (1.136)	85	956377			13.91- 113.91	64.98
162 Propylbenzene					CAS #: 103-65-1		
9.401	9.401 (1.141)	91	3247375	50.0000	55.670	80.00- 120.00	100.00
9.401	9.401 (1.141)	120	786332			0.00- 73.78	24.21
9.401	9.401 (1.141)	105	121157			0.00- 53.86	3.73
163 4-Ethyltoluene					CAS #: 622-96-8		
9.494	9.494 (1.152)	120	893107	50.0000	54.088	80.00- 120.00	100.00
9.494	9.494 (1.152)	105	2763922			258.07- 358.07	309.47
164 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.551	9.551 (1.159)	120	1150035	50.0000	53.898	80.00- 120.00	100.00
9.551	9.551 (1.159)	105	2202403			144.84- 244.84	191.51
166 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
9.874	9.874 (1.198)	120	1045640	50.0000	52.404	80.00- 120.00	100.00
9.874	9.874 (1.198)	105	2118406			155.69- 255.69	202.59
168 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.153	10.153 (1.232)	146	1463958	50.0000	50.689	80.00- 120.00	100.00
10.153	10.153 (1.232)	148	947561			13.04- 113.04	64.73
10.153	10.153 (1.232)	111	603819			0.00- 90.17	41.25
169 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.232	10.232 (1.242)	146	1484136	50.0000	52.357	80.00- 120.00	100.00
10.232	10.232 (1.242)	148	959801			14.53- 114.53	64.67
10.232	10.232 (1.242)	111	585162			0.00- 90.65	39.43
170 alpha-Chlorotoluene					CAS #: 100-44-7		
10.353	10.353 (1.256)	91	1998104	50.0000	49.958	80.00- 120.00	100.00
10.353	10.353 (1.256)	126	444579			0.00- 71.45	22.25
171 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.561	10.561 (1.282)	146	1336082	50.0000	52.518	80.00- 120.00	100.00
10.561	10.561 (1.282)	148	862694			14.08- 114.08	64.57
10.554	10.561 (1.281)	111	563729			0.00- 94.71	42.19
174 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.929	11.929 (1.448)	180	953844	50.0000	47.847	80.00- 120.00	100.00
11.929	11.929 (1.448)	182	900952			45.73- 145.73	94.45

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
175 Hexachlorobutadiene					CAS #: 87-68-3		
12.022	12.022 (1.459)	225	547591	50.0000	43.031	80.00- 120.00	100.00
12.022	12.022 (1.459)	223	343482			17.13- 117.13	62.73
176 Naphthalene					CAS #: 91-20-3		
12.180	12.180 (1.478)	128	538961	5.00000	5.918	80.00- 120.00	100.00
12.180	12.180 (1.478)	127	67693			0.00- 62.50	12.56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3052802.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /var/chem/msd3.i/28may10.b/310q0520a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 28-MAY-2010
Calibration Time: 09:28
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	258568	155141	361995	258568	0.00
97 1,4-Difluorobenze	878539	527123	1229955	878539	0.00
144 Chlorobenzene-d5	772301	463381	1081221	772301	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	4.85	4.52	5.18	4.85	0.00
97 1,4-Difluorobenze	5.76	5.43	6.09	5.76	0.00
144 Chlorobenzene-d5	8.24	7.91	8.57	8.24	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/28may10.b/3052802.d

Date : 28-MAY-2010 09:28

Client ID: CCV

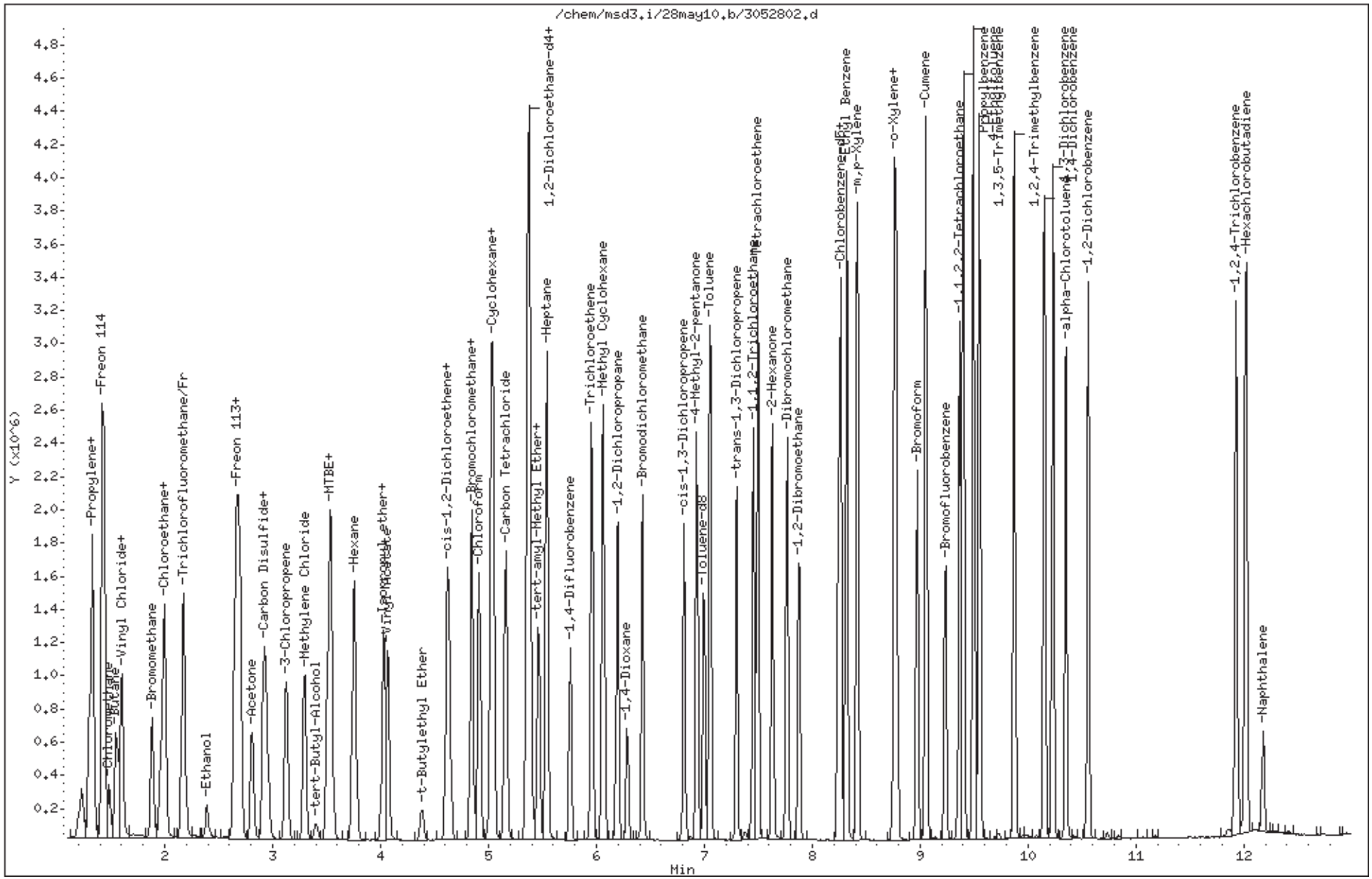
Instrument: msd3.i

Sample Info: 200mL #1936-182

Operator: cr

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052804.d
Lab Smp Id: TPHg CCV Client Smp ID: TPHg CCV
Inj Date : 28-MAY-2010 10:29
Operator : cr Inst ID: msd3.i
Smp Info : 40mL #1936-166
Misc Info : 500ppbv (2500ppbv)
Comment :
Method : /chem/msd3.i/28may10.b/310q0520a.m
Meth Date : 28-May-2010 10:00 croush Quant Type: AREA%
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA		COMPOUNDS
1.199	1876370	525732	0.280	3.50		
1.436	115144	66184	0.575	0.21	6	Propylene
1.548	672400	241093	0.359	1.25	13	Butane
1.632	85972	32955	0.383	0.16		
1.702	65208	26548	0.407	0.12		
1.898	27928	9512	0.341	0.05		
1.996	2500941	975027	0.390	4.66	11	Chloromethane
2.230	1022532	325580	0.318	1.91		
2.381	1057175	434949	0.411	1.97	29	Ethanol
2.474	177447	64972	0.366	0.33		
2.538	621232	224084	0.361	1.16		
2.667	301205	85924	0.285	0.56		
3.197	1487085	342695	0.230	2.77		
3.276	312706	88004	0.281	0.58	43	Methylene Chloride
3.470	558694	185288	0.332	1.04	46	tert-Butyl-Alcohol
3.677	114836	40472	0.352	0.21		
3.756	438473	177170	0.404	0.82	51	Hexane
3.878	90806	38215	0.421	0.17		
3.942	140261	65506	0.467	0.26		
3.993	297974	113817	0.382	0.56		
4.079	74266	33076	0.445	0.14		
4.143	70305	33874	0.482	0.13		
4.250	174776	76958	0.440	0.33		
4.293	269457	92331	0.343	0.50		

IS/SURR: 11,621,879

Systhal: 2,206,379

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.387	419783	170303	0.406	0.78	
4.451	69593	29008	0.417	0.13	
4.845	1580592	707971	0.448	2.94	* 76 Bromochloromethane
4.974	622594	264633	0.425	1.16	75 Tetrahydrofuran
5.053	558628	188083	0.337	1.04	80 Cyclohexane
5.139	729253	326474	0.448	1.36	74 2-Butanone
5.368	3399930	902624	0.265	6.33	$ 89 1,2-Dichloroethane-d4
5.461	130649	44971	0.344	0.24	
5.540	598915	311843	0.521	1.12	94 Heptane
5.590	34362	23259	0.677	0.06	
5.683	172749	62473	0.362	0.32	
5.762	2159375	1242561	0.575	4.02	* 97 1,4-Difluorobenzene
5.805	40183	26440	0.658	0.07	
5.884	93297	29795	0.319	0.17	
6.048	535049	208807	0.390	1.00	104 Methyl Cyclohexane
6.091	398656	170797	0.428	0.74	
6.149	74328	33555	0.451	0.14	
6.227	99717	40202	0.403	0.19	
6.270	38452	19722	0.513	0.07	
6.407	764451	366967	0.480	1.42	
6.521	960955	383715	0.399	1.79	
6.578	375649	184882	0.492	0.70	
6.607	144170	81991	0.569	0.27	
6.707	446755	197814	0.443	0.83	
6.836	278829	143188	0.514	0.52	
6.901	63996	29760	0.465	0.12	
7.001	2329770	1461084	0.627	4.34	$ 115 Toluene-d8
7.051	5323192	3173897	0.596	9.94	112 cis-1,3-Dichloropropen
7.216	29254	12693	0.434	0.05	
7.323	139541	53910	0.386	0.26	
7.388	54730	24132	0.441	0.10	
7.459	58426	22912	0.392	0.11	
7.567	87576	36372	0.415	0.16	
7.710	30650	17395	0.568	0.06	
7.868	39238	21841	0.557	0.07	
7.925	154367	83232	0.539	0.29	
8.025	81362	56317	0.692	0.15	
8.240	2352437	1560004	0.663	4.38	* 144 Chlorobenzene-d5
8.319	989497	650861	0.658	1.84	140 1,2-Dibromoethane
8.355	79018	57720	0.730	0.15	
8.419	3714871	2546065	0.685	6.92	150 m,p-Xylene
8.763	1331487	869276	0.653	2.48	153 o-Xylene
9.050	123575	62347	0.505	0.23	156 Cumene
9.114	102521	48643	0.474	0.19	
9.179	25454	15825	0.622	0.05	
9.236	2467123	1681088	0.681	4.60	$ 159 Bromofluorobenzene
9.401	311107	207342	0.666	0.58	162 Propylbenzene
9.472	1643012	776483	0.473	3.06	163 4-Ethyltoluene
9.551	552034	353149	0.640	1.03	164 1,3,5-Trimethylbenzene
9.730	454190	253528	0.558	0.85	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.873	1588461	1085970	0.684	2.96	166 1,2,4-Trimethylbenzene
9.967	79867	41008	0.513	0.15	
10.010	31885	18614	0.584	0.06	
10.081	53167	23112	0.435	0.10	
10.138	25402	12855	0.506	0.05 hal	
10.174	105421	45895	0.435	0.20	
10.239	304764	198462	0.651	0.57	
10.396	226946	88003	0.388	0.42	
10.446	353243	139169	0.394	0.66	
10.554	39074	24418	0.625	0.07 hal	
10.618	43823	27446	0.626	0.08	
10.690	84260	51834	0.615	0.16	
10.711	91808	51480	0.561	0.17	
10.776	127315	89337	0.702	0.24	
10.891	55203	22698	0.411	0.10	
11.048	44582	20422	0.458	0.08	
11.120	69103	44241	0.640	0.13	
11.170	85610	52064	0.608	0.16	
11.413	28981	19943	0.688	0.05	
11.550	84156	26116	0.310	0.16	
11.929	79877	40239	0.504	0.15 hal	
12.022	57949	31110	0.537	0.11 hal	
12.137	25972	9884	0.381	0.05	
12.180	40465	21402	0.529	0.08	176 Naphthalene
12.603	55734	20114	0.361	0.10 hal	
12.624	71973	18919	0.263	0.13 hal	
	53673573	26762675		100.000	

Total unknown % area = 28.060

Pltg CCV: $\frac{53,673,573 - 2,206,379 - 11,621,879}{83,884.11} = \frac{475}{500}\% = 95.0\%$ ✓

OR 05/28/10

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005453A-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 09:47 AM**	

Compound	%Recovery
Freon 12	111
Freon 114	105
Chloromethane	116
Vinyl Chloride	141 Q
1,3-Butadiene	117
Bromomethane	119
Chloroethane	116
Freon 11	101
Ethanol	110
Freon 113	91
1,1-Dichloroethene	96
Acetone	110
2-Propanol	106
Carbon Disulfide	116
3-Chloropropene	108
Methylene Chloride	107
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	110
Hexane	102
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	101
Tetrahydrofuran	101
Chloroform	96
1,1,1-Trichloroethane	88
Cyclohexane	96
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	100
Benzene	109
1,2-Dichloroethane	102
Heptane	106
Trichloroethene	100
1,2-Dichloropropane	104
1,4-Dioxane	97
Bromodichloromethane	97
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	99
Toluene	99
trans-1,3-Dichloropropene	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005453A-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/27/10 09:47 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	100
Tetrachloroethene	96
2-Hexanone	102
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	107
Chlorobenzene	104
Ethyl Benzene	103
m,p-Xylene	105
o-Xylene	109
Styrene	108
Bromoform	99
Cumene	106
1,1,2,2-Tetrachloroethane	114
Propylbenzene	112
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	113
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	94
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 27-May-2010 10:52

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: acb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT10.sub
Method File: /var/chem/msd3.i/27may10.b/310q0520a.m
Misc Info: 200ppbv->50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Propylene	50.000	53.552	107.10	60-140
7 Dichlorodifluorome	50.000	55.726	111.45	70-130
10 Freon 114	50.000	52.625	105.25	70-130
11 Chloromethane	50.000	58.108	116.22	70-130
14 Vinyl Chloride	50.000	70.652	141.30*	70-130
15 1,3-Butadiene	50.000	58.702	117.40	60-140
21 Bromomethane	50.000	59.404	118.81	70-130
24 Chloroethane	50.000	58.063	116.13	70-130
28 Trichlorofluoromet	50.000	50.625	101.25	70-130
29 Ethanol	50.000	55.008	110.02	60-140
30 Freon 113	50.000	45.384	90.77	70-130
32 1,1-Dichloroethene	50.000	48.016	96.03	70-130
34 Acetone	50.000	54.899	109.80	60-140
35 Carbon Disulfide	50.000	57.786	115.57	60-140
37 2-Propanol	50.000	52.770	105.54	60-140
43 Methylene Chloride	50.000	53.433	106.87	70-130
47 MTBE	50.000	50.334	100.67	60-140
48 trans-1,2-Dichloro	50.000	54.859	109.72	60-140
51 Hexane	50.000	51.043	102.09	60-140
61 Vinyl Acetate	50.000	50.126	100.25	60-140
59 1,1-Dichloroethane	50.000	51.126	102.25	70-130
73 cis-1,2-Dichloroet	50.000	50.510	101.02	70-130
74 2-Butanone	50.000	49.781	99.56	60-140
75 Tetrahydrofuran	50.000	50.617	101.23	60-140
78 Chloroform	50.000	48.122	96.24	70-130
80 Cyclohexane	50.000	48.038	96.08	60-140
81 1,1,1-Trichloroeth	50.000	44.213	88.43	70-130
82 Carbon Tetrachlori	50.000	44.097	88.19	70-130
88 Benzene	50.000	54.670	109.34	70-130
93 1,2-Dichloroethane	50.000	50.850	101.70	70-130
94 Heptane	50.000	52.989	105.98	60-140
102 Trichloroethene	50.000	49.948	99.90	70-130
106 1,2-Dichloropropan	50.000	52.159	104.32	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 1,4-Dioxane	50.000	48.644	97.29	60-140
109 Bromodichlorometha	50.000	48.395	96.79	60-140
112 cis-1,3-Dichloropr	50.000	49.648	99.30	70-130
114 4-Methyl-2-pentano	50.000	49.664	99.33	60-140
116 Toluene	50.000	49.344	98.69	70-130
123 trans-1,3-Dichloro	50.000	49.771	99.54	70-130
128 1,1,2-Trichloroeth	50.000	49.989	99.98	70-130
131 Tetrachloroethene	50.000	48.093	96.19	70-130
135 2-Hexanone	50.000	51.163	102.33	60-140
138 Dibromochlorometha	50.000	49.700	99.40	60-140
140 1,2-Dibromoethane	50.000	53.597	107.19	70-130
145 Chlorobenzene	50.000	52.080	104.16	70-130
147 Ethyl Benzene	50.000	51.562	103.12	70-130
150 m,p-Xylene	50.000	52.561	105.12	70-130
153 o-Xylene	50.000	54.310	108.62	70-130
154 Styrene	50.000	54.262	108.52	70-130
155 Bromoform	50.000	49.477	98.95	60-140
161 1,1,2,2-Tetrachlor	50.000	56.964	113.93	70-130
163 4-Ethyltoluene	50.000	54.842	109.68	60-140
164 1,3,5-Trimethylben	50.000	56.333	112.67	70-130
166 1,2,4-Trimethylben	50.000	54.497	108.99	70-130
168 1,3-Dichlorobenzen	50.000	52.810	105.62	70-130
169 1,4-Dichlorobenzen	50.000	55.140	110.28	70-130
170 alpha-Chlorotoluen	50.000	50.890	101.78	70-130
171 1,2-Dichlorobenzen	50.000	55.444	110.89	70-130
174 1,2,4-Trichloroben	50.000	51.211	102.42	70-130
175 Hexachlorobutadien	50.000	47.066	94.13	70-130
162 Propylbenzene	50.000	55.976	111.95	60-140
156 Cumene	50.000	53.090	106.18	60-140
41 3-Chloropropene	50.000	53.975	107.95	60-140
87 2,2,4-Trimethylpen	50.000	49.969	99.94	60-140
25 Isopentane	50.000	59.117	118.23	70-130
13 Butane	50.000	40.966	81.93	70-130
104 Methyl Cyclohexane	50.000	45.241	90.48	70-130
46 tert-Butyl-Alcohol	5.000	4.172	83.44	60-140
176 Naphthalene	5.000	3.794	75.89	60-140
58 Isopropyl ether	5.000	5.110	102.19	60-140
68 t-Butylethyl Ether	5.000	4.859	97.19	60-140
92 tert-amyl-Methyl E	5.000	4.647	92.94	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 89 1,2-Dichloroethane	25.000	23.632	94.53	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 115 Toluene-d8	25.000	25.552	102.21	70-130
$ 159 Bromofluorobenzene	25.000	24.990	99.96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/27may10.b/3052703.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 27-MAY-2010 09:47
Operator : acb Inst ID: msd3.i
Smp Info : 200mL #1936-114
Misc Info : 200ppbv->50ppbv
Comment :
Method : /var/chem/msd3.i/27may10.b/310q0520a.m
Meth Date : 27-May-2010 10:51 abarton Quant Type: ISTD
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 76 Bromochloromethane					CAS #: 74-97-5		
4.852	4.845 (1.000)	130	263747	25.0000		80.00- 120.00	100.00
4.852	4.845 (1.000)	128	211012			28.10- 128.10	80.01
4.845	4.845 (1.000)	49	363217			81.21- 181.21	137.71
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
5.762	5.762 (1.000)	114	918540	25.0000		80.00- 120.00	100.00
5.762	5.762 (1.000)	88	146590			0.00- 66.01	15.96
* 144 Chlorobenzene-d5					CAS #: 3114-55-4		
8.240	8.240 (1.000)	117	803508	25.0000		80.00- 120.00	100.00
8.240	8.240 (1.000)	82	444775			6.08- 106.08	55.35
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.397	5.397 (1.112)	65	340707	23.6323	23.632	80.00- 120.00	100.00
5.397	5.397 (1.112)	67	201009			4.53- 104.53	59.00
$ 115 Toluene-d8					CAS #: 2037-26-5		
7.001	7.001 (1.215)	98	904222	25.5519	25.552	80.00- 120.00	100.00
7.001	7.001 (1.215)	70	103878			0.00- 61.77	11.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 115 Toluene-d8 (continued)							
7.001	7.001 (1.215)	100	605664			17.54- 117.54	66.98
$ 159 Bromofluorobenzene					CAS #: 460-00-4		
9.236	9.236 (1.121)	174	412605	24.9901	24.990	80.00- 120.00	100.00
9.236	9.236 (1.121)	95	588746			89.80- 189.80	142.69
9.236	9.236 (1.121)	176	399899			47.30- 147.30	96.92
6 Propylene					CAS #: 115-07-1		
1.311	1.311 (0.270)	41	426166	53.5523	53.552	80.00- 120.00	100.00
1.311	1.311 (0.270)	42	288649			16.29- 116.29	67.73
1.311	1.311 (0.270)	39	320448			25.67- 125.67	75.19
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.325	1.325 (0.273)	85	1505141	55.7263	55.726	80.00- 120.00	100.00
1.325	1.325 (0.273)	87	492735			0.00- 83.16	32.74
10 Freon 114					CAS #: 76-14-2		
1.437	1.437 (0.296)	135	1138400	52.6253	52.625	80.00- 120.00	100.00
1.437	1.437 (0.296)	137	376974			0.00- 81.19	33.11
11 Chloromethane					CAS #: 74-87-3		
1.479	1.479 (0.305)	50	284588	58.1075	58.108	80.00- 120.00	100.00
1.479	1.479 (0.305)	52	96517			0.00- 89.83	33.91
13 Butane					CAS #: 106-97-8		
1.548	1.549 (0.319)	58	72165	40.9657	40.966	80.00- 120.00	100.00
1.548	1.549 (0.319)	43	541846			671.03- 771.03	750.84
14 Vinyl Chloride					CAS #: 75-01-4		
1.576	1.577 (0.325)	62	528820	70.6523	70.652	80.00- 120.00	100.00(R)
1.576	1.577 (0.325)	64	174946			9.16- 109.16	33.08
15 1,3-Butadiene					CAS #: 106-99-0		
1.604	1.605 (0.331)	54	472813	58.7024	58.702	80.00- 120.00	100.00
1.604	1.605 (0.331)	39	538014			86.04- 186.04	113.79
21 Bromomethane					CAS #: 74-83-9		
1.884	1.884 (0.388)	94	572529	59.4040	59.404	80.00- 120.00	100.00
1.884	1.884 (0.388)	96	530120			43.85- 143.85	92.59
24 Chloroethane					CAS #: 75-00-3		
1.968	1.968 (0.406)	64	354753	58.0627	58.063	80.00- 120.00	100.00
1.968	1.968 (0.406)	66	106815			0.00- 91.47	30.11
1.968	1.968 (0.406)	49	81681			0.00- 76.92	23.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
25 Isopentane					CAS #: 78-78-4		
1.996	1.996 (0.411)	43	881230	59.1174	59.117	80.00- 120.00	100.00
1.996	1.996 (0.411)	57	549929			17.32- 117.32	62.40
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.173	2.173 (0.448)	101	1503401	50.6252	50.625	80.00- 120.00	100.00
2.173	2.173 (0.448)	103	989556			16.11- 116.11	65.82
29 Ethanol					CAS #: 64-17-5		
2.388	2.388 (0.492)	45	207114	55.0077	55.008	80.00- 120.00	100.00
2.388	2.388 (0.492)	43	45970			0.00- 70.33	22.20
2.388	2.388 (0.492)	46	84742			0.00- 85.62	40.92
30 Freon 113					CAS #: 76-13-1		
2.668	2.668 (0.550)	151	898814	45.3839	45.384	80.00- 120.00	100.00
2.668	2.668 (0.550)	153	576046			15.27- 115.27	64.09
2.668	2.668 (0.550)	101	1143217			70.04- 170.04	127.19
32 1,1-Dichloroethene					CAS #: 75-35-4		
2.696	2.696 (0.556)	96	545334	48.0164	48.016	80.00- 120.00	100.00
2.696	2.696 (0.556)	98	349536			13.42- 113.42	64.10
2.696	2.696 (0.556)	61	886296			102.48- 202.48	162.52
34 Acetone					CAS #: 67-64-1		
2.811	2.811 (0.579)	58	276829	54.8992	54.899	80.00- 120.00	100.00
2.811	2.811 (0.579)	43	914598			294.99- 394.99	330.38
35 Carbon Disulfide					CAS #: 75-15-0		
2.918	2.918 (0.601)	76	1736271	57.7860	57.786	80.00- 120.00	100.00
37 2-Propanol					CAS #: 67-63-0		
2.947	2.947 (0.607)	45	1023884	52.7698	52.770	80.00- 120.00	100.00
2.947	2.947 (0.607)	43	202721			0.00- 68.53	19.80
2.940	2.947 (0.606)	59	37674			0.00- 53.71	3.68
41 3-Chloropropene					CAS #: 107-05-1		
3.126	3.126 (0.644)	76	278925	53.9750	53.975	80.00- 120.00	100.00
3.126	3.126 (0.644)	41	821691			233.43- 333.43	294.59
43 Methylene Chloride					CAS #: 75-09-2		
3.298	3.291 (0.680)	49	637583	53.4327	53.433	80.00- 120.00	100.00
3.298	3.298 (0.680)	84	496344			30.55- 130.55	77.85
3.298	3.298 (0.680)	51	197954			0.00- 78.00	31.05
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.398	3.398 (0.700)	57	14504	4.17217	4.172	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.405	3.405 (0.702)	41	38434			51.88- 151.88	264.99
3.405	3.405 (0.702)	59	144458			274.92- 374.92	995.99
47 MTBE					CAS #: 1634-04-4		
3.520	3.520 (0.725)	73	1456143	50.3342	50.334	80.00- 120.00	100.00
3.520	3.513 (0.725)	57	328049			0.00- 69.69	22.53
3.520	3.520 (0.725)	41	346132			0.00- 74.36	23.77
48 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.541	3.542 (0.730)	98	423237	54.8590	54.859	80.00- 120.00	100.00
3.541	3.542 (0.730)	61	937425			165.89- 265.89	221.49
3.541	3.542 (0.730)	96	656700			102.74- 202.74	155.16
51 Hexane					CAS #: 110-54-3		
3.756	3.756 (0.774)	57	957441	51.0426	51.043	80.00- 120.00	100.00
3.756	3.756 (0.774)	43	658590			20.84- 120.84	68.79
3.756	3.756 (0.774)	86	170853			0.00- 67.84	17.84
58 Isopropyl ether					CAS #: 108-20-3		
4.021	4.021 (0.829)	45	274372	5.10953	5.110	80.00- 120.00	100.00
4.029	4.029 (0.830)	87	81210			0.00- 82.08	29.60
4.029	4.029 (0.830)	59	33909			0.00- 62.26	12.36
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.029	4.029 (0.830)	63	1147593	51.1256	51.126	80.00- 120.00	100.00
4.029	4.029 (0.830)	65	368164			0.00- 82.97	32.08
61 Vinyl Acetate					CAS #: 108-05-4		
4.072	4.072 (0.839)	86	161094	50.1261	50.126	80.00- 120.00	100.00
4.072	4.072 (0.839)	43	1875286			1048.02-1148.02	1164.09
68 t-Butylethyl Ether					CAS #: 637-92-3		
4.380	4.380 (0.903)	59	162471	4.85931	4.859	80.00- 120.00	100.00
4.380	4.380 (0.903)	87	64068			0.00- 92.49	39.43
4.380	4.380 (0.903)	41	36768			0.00- 68.70	22.63
73 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.616	4.616 (0.951)	98	425997	50.5101	50.510	80.00- 120.00	100.00
4.616	4.616 (0.951)	96	661629			107.00- 207.00	155.31
4.616	4.616 (0.951)	61	886780			156.77- 256.77	208.17
74 2-Butanone					CAS #: 78-93-3		
4.637	4.637 (0.956)	72	336249	49.7812	49.781	80.00- 120.00	100.00
4.637	4.637 (0.956)	43	1430020			367.38- 467.38	425.29
4.645	4.637 (0.957)	57	106039			0.00- 82.47	31.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
75 Tetrahydrofuran					CAS #: 109-99-9		
4.845	4.845 (0.999)	42	824622	50.6175	50.617	80.00- 120.00	100.00
4.845	4.845 (0.999)	71	302284			0.00- 85.96	36.66
4.845	4.845 (0.999)	72	317681			0.00- 88.91	38.52
78 Chloroform					CAS #: 67-66-3		
4.917	4.917 (1.013)	83	1261033	48.1220	48.122	80.00- 120.00	100.00
4.917	4.917 (1.013)	85	823035			15.14- 115.14	65.27
80 Cyclohexane					CAS #: 110-82-7		
5.031	5.031 (1.037)	84	856332	48.0377	48.038	80.00- 120.00	100.00
5.031	5.024 (1.037)	56	1013984			68.72- 168.72	118.41
5.031	5.024 (1.037)	41	596028			19.25- 119.25	69.60
81 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.046	5.046 (1.040)	97	1159610	44.2128	44.213	80.00- 120.00	100.00
5.046	5.046 (1.040)	99	749782			13.46- 113.46	64.66
82 Carbon Tetrachloride					CAS #: 56-23-5		
5.160	5.160 (1.063)	119	1126778	44.0971	44.097	80.00- 120.00	100.00
5.160	5.160 (1.063)	117	1165425			53.73- 153.73	103.43
87 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.368	5.368 (1.106)	57	3006083	49.9688	49.969	80.00- 120.00	100.00
5.368	5.368 (1.106)	56	1001241			0.00- 83.36	33.31
5.368	5.368 (1.106)	41	801031			0.00- 79.00	26.65
88 Benzene					CAS #: 71-43-2		
5.382	5.375 (0.934)	78	1915592	54.6705	54.670	80.00- 120.00	100.00
5.382	5.375 (0.934)	77	447871			0.00- 75.11	23.38
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.454	5.454 (1.124)	73	144763	4.64714	4.647	80.00- 120.00	100.00
5.461	5.454 (1.125)	87	32581			0.00- 73.83	22.51
5.454	5.454 (1.124)	55	43531			0.00- 76.83	30.07
93 1,2-Dichloroethane					CAS #: 107-06-2		
5.468	5.468 (0.949)	62	829148	50.8498	50.850	80.00- 120.00	100.00
5.468	5.468 (0.949)	64	269270			0.00- 84.79	32.48
94 Heptane					CAS #: 142-82-5		
5.540	5.540 (0.961)	71	710307	52.9891	52.989	80.00- 120.00	100.00
5.540	5.540 (0.961)	43	1300827			135.14- 235.14	183.14
5.540	5.540 (0.961)	57	653432			42.76- 142.76	91.99
102 Trichloroethene					CAS #: 79-01-6		
5.955	5.955 (1.034)	95	792268	49.9479	49.948	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Trichloroethene (continued)							
5.963	5.955 (1.035)	130	815603			51.95- 151.95	102.95
5.955	5.955 (1.034)	97	509348			13.87- 113.87	64.29
104 Methyl Cyclohexane					CAS #: 108-87-2		
6.063	6.063 (1.249)	83	1064307	45.2412	45.241	80.00- 120.00	100.00
6.063	6.063 (1.249)	98	503645			0.00- 99.36	47.32
6.063	6.063 (1.249)	55	891888			32.31- 132.31	83.80
106 1,2-Dichloropropane					CAS #: 78-87-5		
6.199	6.199 (1.076)	63	715466	52.1589	52.159	80.00- 120.00	100.00
6.199	6.199 (1.076)	62	514265			19.50- 119.50	71.88
6.199	6.192 (1.076)	41	411030			12.61- 112.61	57.45
107 1,4-Dioxane					CAS #: 123-91-1		
6.285	6.285 (1.091)	88	413756	48.6444	48.644	80.00- 120.00	100.00
6.285	6.285 (1.091)	58	304897			22.28- 122.28	73.69
6.285	6.285 (1.091)	57	97716			0.00- 73.35	23.62
109 Bromodichloromethane					CAS #: 75-27-4		
6.428	6.428 (1.116)	83	1218094	48.3947	48.395	80.00- 120.00	100.00
6.428	6.428 (1.116)	85	792135			13.18- 113.18	65.03
112 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.815	6.815 (1.183)	75	1008215	49.6479	49.648	80.00- 120.00	100.00
6.815	6.815 (1.183)	77	318007			0.00- 81.33	31.54
6.815	6.815 (1.183)	39	531310			7.75- 107.75	52.70
114 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.930	6.930 (1.203)	58	575976	49.6636	49.664	80.00- 120.00	100.00
6.930	6.930 (1.203)	43	1580537			229.92- 329.92	274.41
6.930	6.930 (1.203)	85	232018			0.00- 92.97	40.28
116 Toluene					CAS #: 108-88-3		
7.058	7.059 (1.225)	91	2033741	49.3442	49.344	80.00- 120.00	100.00
7.058	7.051 (1.225)	92	1199933			10.41- 110.41	59.00
123 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.302	7.302 (0.886)	75	1028995	49.7710	49.771	80.00- 120.00	100.00
7.302	7.302 (0.886)	77	329285			0.00- 82.90	32.00
7.302	7.302 (0.886)	39	530614			5.93- 105.93	51.57
128 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.452	7.453 (0.904)	97	724521	49.9890	49.989	80.00- 120.00	100.00
7.452	7.453 (0.904)	99	454547			12.18- 112.18	62.74
7.452	7.453 (0.904)	83	642672			36.73- 136.73	88.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
131 Tetrachloroethene					CAS #: 127-18-4		
7.495	7.496 (0.910)	166	902233	48.0932	48.093	80.00- 120.00	100.00
7.495	7.496 (0.910)	129	711489			28.04- 128.04	78.86
7.495	7.496 (0.910)	131	662956			22.71- 122.71	73.48
135 2-Hexanone					CAS #: 591-78-6		
7.632	7.632 (0.926)	58	811010	51.1628	51.163	80.00- 120.00	100.00
7.632	7.632 (0.926)	43	1608299			147.09- 247.09	198.31
7.632	7.632 (0.926)	100	157180			0.00- 70.49	19.38
138 Dibromochloromethane					CAS #: 124-48-1		
7.768	7.768 (0.943)	129	1154422	49.7005	49.700	80.00- 120.00	100.00
7.768	7.768 (0.943)	127	895885			27.79- 127.79	77.60
140 1,2-Dibromoethane					CAS #: 106-93-4		
7.882	7.882 (0.957)	107	1160020	53.5971	53.597	80.00- 120.00	100.00
7.882	7.882 (0.957)	109	1101441			45.62- 145.62	94.95
145 Chlorobenzene					CAS #: 108-90-7		
8.262	8.262 (1.003)	112	1670990	52.0802	52.080	80.00- 120.00	100.00
8.262	8.262 (1.003)	114	531308			0.00- 82.30	31.80
8.262	8.262 (1.003)	77	980639			21.61- 121.61	58.69
147 Ethyl Benzene					CAS #: 100-41-4		
8.319	8.319 (1.010)	106	866797	51.5619	51.562	80.00- 120.00	100.00
8.319	8.319 (1.010)	91	2635388			253.16- 353.16	304.04
150 m,p-Xylene					CAS #: 108-38-3		
8.419	8.420 (1.022)	106	1081093	52.5608	52.561	80.00- 120.00	100.00
8.419	8.420 (1.022)	91	2094311			149.33- 249.33	193.72
153 o-Xylene					CAS #: 95-47-6		
8.763	8.763 (1.063)	106	1018222	54.3101	54.310	80.00- 120.00	100.00
8.763	8.763 (1.063)	91	2049321			156.46- 256.46	201.26
154 Styrene					CAS #: 100-42-5		
8.785	8.785 (1.066)	104	1672928	54.2618	54.262	80.00- 120.00	100.00
8.778	8.778 (1.065)	78	805629			1.45- 101.45	48.16
155 Bromoform					CAS #: 75-25-2		
8.971	8.971 (1.089)	173	967479	49.4767	49.477	80.00- 120.00	100.00
8.971	8.971 (1.089)	171	502867			2.03- 102.03	51.98
156 Cumene					CAS #: 98-82-8		
9.057	9.057 (1.099)	105	2798790	53.0898	53.090	80.00- 120.00	100.00
9.057	9.057 (1.099)	120	799002			0.00- 78.61	28.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
156 Cumene (continued)							
9.050	9.050 (1.098)	51	288345			0.00- 61.59	10.30
161 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.365	9.365 (1.136)	83	1582851	56.9643	56.964	80.00- 120.00	100.00
9.365	9.365 (1.136)	85	1028976			13.91- 113.91	65.01
162 Propylbenzene					CAS #: 103-65-1		
9.401	9.401 (1.141)	91	3397167	55.9756	55.976	80.00- 120.00	100.00
9.401	9.401 (1.141)	120	824262			0.00- 73.78	24.26
9.401	9.401 (1.141)	105	125006			0.00- 53.86	3.68
163 4-Ethyltoluene					CAS #: 622-96-8		
9.494	9.494 (1.152)	120	942138	54.8419	54.842	80.00- 120.00	100.00
9.494	9.494 (1.152)	105	2952312			258.07- 358.07	313.36
164 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
9.551	9.551 (1.159)	120	1250570	56.3333	56.333	80.00- 120.00	100.00
9.551	9.551 (1.159)	105	2390537			144.84- 244.84	191.16
166 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
9.874	9.874 (1.198)	120	1131338	54.4969	54.497	80.00- 120.00	100.00
9.874	9.874 (1.198)	105	2287145			155.69- 255.69	202.16
168 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.153	10.153 (1.232)	146	1586832	52.8096	52.810	80.00- 120.00	100.00
10.153	10.153 (1.232)	148	1022072			13.04- 113.04	64.41
10.153	10.153 (1.232)	111	642809			0.00- 90.17	40.51
169 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.232	10.232 (1.242)	146	1626165	55.1397	55.140	80.00- 120.00	100.00
10.232	10.232 (1.242)	148	1051121			14.53- 114.53	64.64
10.232	10.232 (1.242)	111	635551			0.00- 90.65	39.08
170 alpha-Chlorotoluene					CAS #: 100-44-7		
10.353	10.354 (1.256)	91	2117635	50.8899	50.890	80.00- 120.00	100.00
10.353	10.354 (1.256)	126	464451			0.00- 71.45	21.93
171 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.561	10.561 (1.282)	146	1467516	55.4442	55.444	80.00- 120.00	100.00
10.561	10.561 (1.282)	148	946225			14.08- 114.08	64.48
10.554	10.554 (1.281)	111	621810			0.00- 94.71	42.37
174 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.929	11.929 (1.448)	180	1062162	51.2107	51.211	80.00- 120.00	100.00
11.929	11.929 (1.448)	182	1009162			45.73- 145.73	95.01

					CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)		
RT	EXP RT (REL RT)	MASS	RESPONSE				TARGET RANGE	RATIO
175 Hexachlorobutadiene						CAS #: 87-68-3		
12.022	12.015 (1.459)	225	623137		47.0658	47.066	80.00- 120.00	100.00
12.022	12.015 (1.459)	223	385080				17.13- 117.13	61.80
176 Naphthalene						CAS #: 91-20-3		
12.180	12.173 (1.478)	128	359555		3.79448	3.794	80.00- 120.00	100.00
12.180	12.173 (1.478)	127	44696				0.00- 62.50	12.43

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3052703.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: acb
Method File: /var/chem/msd3.i/27may10.b/310q0520a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 27-MAY-2010
Calibration Time: 09:24
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	258488	155093	361883	263747	2.03
97 1,4-Difluorobenze	894304	536582	1252026	918540	2.71
144 Chlorobenzene-d5	791587	474952	1108222	803508	1.51

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	4.85	4.52	5.18	4.85	0.15
97 1,4-Difluorobenze	5.76	5.43	6.09	5.76	0.00
144 Chlorobenzene-d5	8.24	7.91	8.57	8.24	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/27may10.b/3052703.d

Date : 27-MAY-2010 09:47

Client ID: LCS

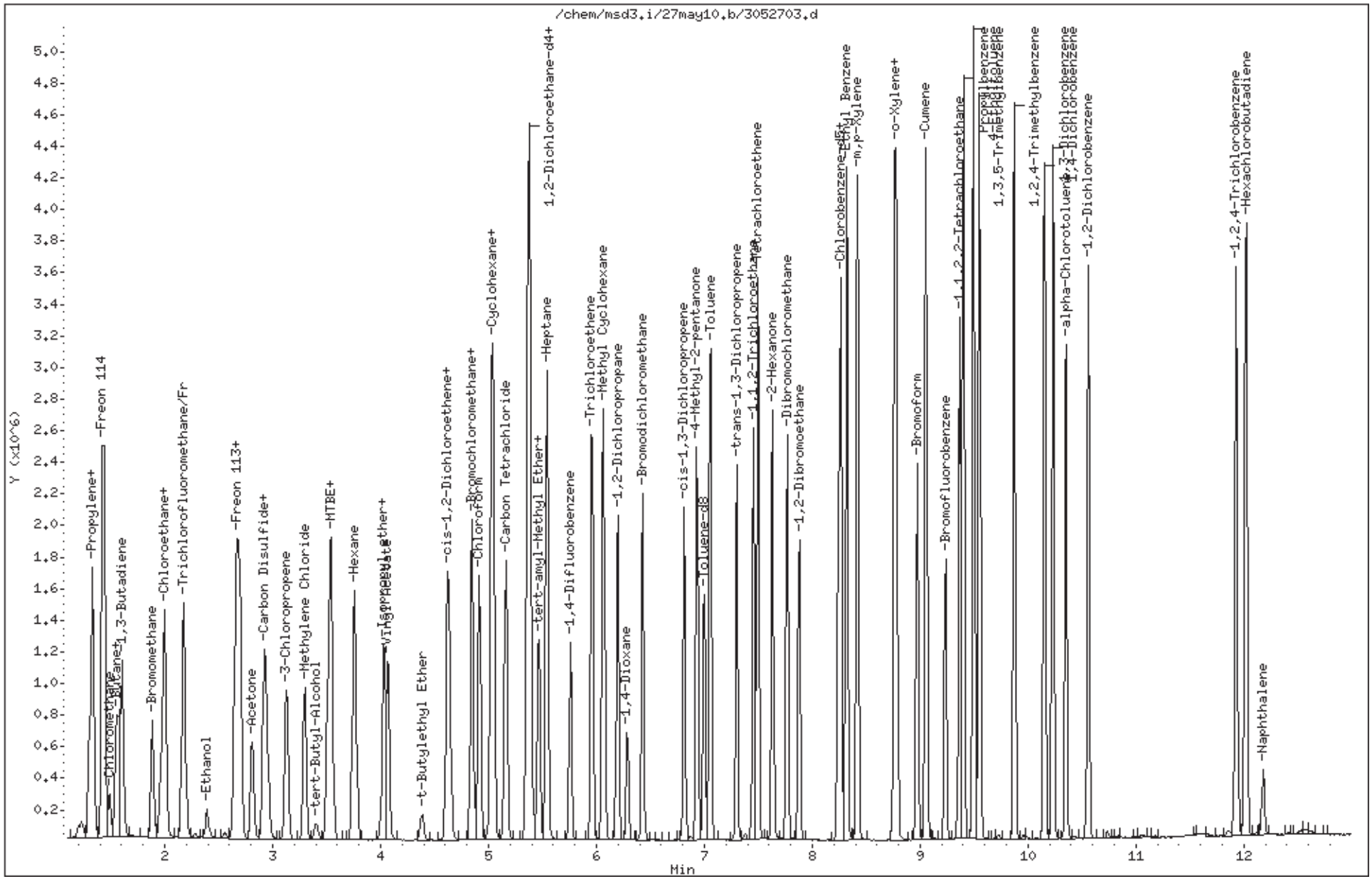
Sample Info: 200mL #1936-114

Instrument: msd3.i

Operator: acb

Column phase: RTx-624

Column diameter: 0.53



Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005453A-19B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 10:01 AM**	

Compound	%Recovery
Freon 12	115
Freon 114	110
Chloromethane	118
Vinyl Chloride	149 Q
1,3-Butadiene	121
Bromomethane	122
Chloroethane	128
Freon 11	105
Ethanol	112
Freon 113	92
1,1-Dichloroethene	98
Acetone	111
2-Propanol	106
Carbon Disulfide	117
3-Chloropropene	113
Methylene Chloride	109
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	111
Hexane	104
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	100
Tetrahydrofuran	101
Chloroform	95
1,1,1-Trichloroethane	89
Cyclohexane	96
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	102
Benzene	106
1,2-Dichloroethane	99
Heptane	104
Trichloroethene	100
1,2-Dichloropropane	102
1,4-Dioxane	95
Bromodichloromethane	94
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	97
Toluene	95
trans-1,3-Dichloropropene	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1005453A-19B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3052803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/28/10 10:01 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	102
Tetrachloroethene	98
2-Hexanone	103
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	108
Chlorobenzene	104
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	108
Styrene	109
Bromoform	100
Cumene	106
1,1,2,2-Tetrachloroethane	115
Propylbenzene	114
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	94
TPH ref. to Gasoline (MW=100)	Not Spiked

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

Report Date: 28-May-2010 10:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 28may10
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: cr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT10.sub
Method File: /chem/msd3.i/28may10.b/310q0520a.m
Misc Info: 50ppbv(200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Propylene	50.000	55.724	111.45	60-140
7 Dichlorodifluorome	50.000	57.686	115.37	70-130
10 Freon 114	50.000	54.819	109.64	70-130
11 Chloromethane	50.000	59.237	118.47	70-130
14 Vinyl Chloride	50.000	74.671	149.34*	70-130
15 1,3-Butadiene	50.000	60.660	121.32	60-140
21 Bromomethane	50.000	61.196	122.39	70-130
24 Chloroethane	50.000	64.222	128.44	70-130
28 Trichlorofluoromet	50.000	52.371	104.74	70-130
29 Ethanol	50.000	55.840	111.68	60-140
30 Freon 113	50.000	46.219	92.44	70-130
32 1,1-Dichloroethene	50.000	49.208	98.42	70-130
34 Acetone	50.000	55.422	110.84	60-140
35 Carbon Disulfide	50.000	58.625	117.25	60-140
37 2-Propanol	50.000	53.111	106.22	60-140
43 Methylene Chloride	50.000	54.337	108.67	70-130
47 MTBE	50.000	54.696	109.39	60-140
48 trans-1,2-Dichloro	50.000	55.440	110.88	60-140
51 Hexane	50.000	51.957	103.91	60-140
61 Vinyl Acetate	50.000	51.795	103.59	60-140
59 1,1-Dichloroethane	50.000	51.795	103.59	70-130
73 cis-1,2-Dichloroet	50.000	50.195	100.39	70-130
74 2-Butanone	50.000	49.851	99.70	60-140
75 Tetrahydrofuran	50.000	50.606	101.21	60-140
78 Chloroform	50.000	47.525	95.05	70-130
80 Cyclohexane	50.000	48.222	96.44	60-140
81 1,1,1-Trichloroeth	50.000	44.481	88.96	70-130
82 Carbon Tetrachlori	50.000	43.829	87.66	70-130
88 Benzene	50.000	53.246	106.49	70-130
93 1,2-Dichloroethane	50.000	49.488	98.98	70-130
94 Heptane	50.000	51.927	103.85	60-140
102 Trichloroethene	50.000	49.977	99.95	70-130
106 1,2-Dichloropropan	50.000	51.068	102.14	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 1,4-Dioxane	50.000	47.462	94.92	60-140
109 Bromodichlorometha	50.000	46.753	93.51	60-140
112 cis-1,3-Dichloropr	50.000	48.805	97.61	70-130
114 4-Methyl-2-pentano	50.000	48.328	96.66	60-140
116 Toluene	50.000	47.620	95.24	70-130
123 trans-1,3-Dichloro	50.000	49.992	99.98	70-130
128 1,1,2-Trichloroeth	50.000	51.145	102.29	70-130
131 Tetrachloroethene	50.000	48.890	97.78	70-130
135 2-Hexanone	50.000	51.417	102.83	60-140
138 Dibromochlorometha	50.000	50.013	100.03	60-140
140 1,2-Dibromoethane	50.000	53.818	107.64	70-130
145 Chlorobenzene	50.000	52.163	104.33	70-130
147 Ethyl Benzene	50.000	51.898	103.80	70-130
150 m,p-Xylene	50.000	53.027	106.05	70-130
153 o-Xylene	50.000	54.051	108.10	70-130
154 Styrene	50.000	54.340	108.68	70-130
155 Bromoform	50.000	49.763	99.53	60-140
161 1,1,2,2-Tetrachlor	50.000	57.673	115.35	70-130
163 4-Ethyltoluene	50.000	54.888	109.78	60-140
164 1,3,5-Trimethylben	50.000	55.989	111.98	70-130
166 1,2,4-Trimethylben	50.000	54.495	108.99	70-130
168 1,3-Dichlorobenzen	50.000	52.782	105.56	70-130
169 1,4-Dichlorobenzen	50.000	55.367	110.73	70-130
170 alpha-Chlorotoluen	50.000	50.250	100.50	70-130
171 1,2-Dichlorobenzen	50.000	55.735	111.47	70-130
174 1,2,4-Trichloroben	50.000	50.523	101.05	70-130
175 Hexachlorobutadien	50.000	46.902	93.80	70-130
162 Propylbenzene	50.000	56.947	113.89	60-140
156 Cumene	50.000	52.914	105.83	60-140
41 3-Chloropropene	50.000	56.674	113.35	60-140
87 2,2,4-Trimethylpen	50.000	50.812	101.62	60-140
25 Isopentane	50.000	56.735	113.47	70-130
13 Butane	50.000	41.898	83.80	70-130
104 Methyl Cyclohexane	50.000	46.630	93.26	70-130
46 tert-Butyl-Alcohol	5.000	4.651	93.03	60-140
176 Naphthalene	5.000	3.706	74.11	60-140
58 Isopropyl ether	5.000	5.145	102.89	60-140
68 t-Butylethyl Ether	5.000	6.010	120.19	60-140
92 tert-amyl-Methyl E	5.000	5.751	115.01	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 89 1,2-Dichloroethane	25.000	24.188	96.75	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 115 Toluene-d8	25.000	24.496	97.98	70-130
$ 159 Bromofluorobenzene	25.000	25.171	100.68	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd3.i/28may10.b/3052803.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 28-MAY-2010 10:01
Operator : cr Inst ID: msd3.i
Smp Info : 50mL #1936-114
Misc Info : 50ppbv(200ppbv)
Comment :
Method : /chem/msd3.i/28may10.b/310q0520a.m
Meth Date : 28-May-2010 10:00 croush Quant Type: ISTD
Cal Date : 21-MAY-2010 17:00 Cal File: 3052104.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT10.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 76 Bromochloromethane					CAS #: 74-97-5		
4.845	4.845 (1.000)	130	254867	25.0000		80.00- 120.00	100.00
4.852	4.845 (1.000)	128	199434			28.10- 128.10	78.25
4.845	4.845 (1.000)	49	359787			81.21- 181.21	141.17
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
5.762	5.762 (1.000)	114	922928	25.0000		80.00- 120.00	100.00
5.762	5.762 (1.000)	88	150364			0.00- 66.01	16.29
* 144 Chlorobenzene-d5					CAS #: 3114-55-4		
8.241	8.240 (1.000)	117	776469	25.0000		80.00- 120.00	100.00
8.241	8.240 (1.000)	82	438690			6.08- 106.08	56.50
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.397	5.397 (1.114)	65	336972	24.1875	24.188	80.00- 120.00	100.00
5.397	5.397 (1.114)	67	196322			4.53- 104.53	58.26
$ 115 Toluene-d8					CAS #: 2037-26-5		
6.994	6.994 (1.214)	98	870978	24.4955	24.496	80.00- 120.00	100.00
6.994	6.994 (1.214)	70	100020			0.00- 61.77	11.48

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 115 Toluene-d8 (continued)							
6.994	6.994 (1.214)	100	596291			17.54- 117.54	68.46
$ 159 Bromofluorobenzene					CAS #: 460-00-4		
9.236	9.236 (1.121)	174	401607	25.1710	25.171	80.00- 120.00	100.00
9.236	9.236 (1.121)	95	571734			89.80- 189.80	142.36
9.236	9.236 (1.121)	176	394605			47.30- 147.30	98.26
6 Propylene					CAS #: 115-07-1		
1.311	1.311 (0.271)	41	428523	55.7245	55.724	80.00- 120.00	100.00
1.311	1.311 (0.271)	42	285084			16.29- 116.29	66.53
1.311	1.311 (0.271)	39	318537			25.67- 125.67	74.33
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.325	1.325 (0.273)	85	1505610	57.6857	57.686	80.00- 120.00	100.00
1.325	1.325 (0.273)	87	489186			0.00- 83.16	32.49
10 Freon 114					CAS #: 76-14-2		
1.437	1.437 (0.296)	135	1145928	54.8188	54.819	80.00- 120.00	100.00
1.437	1.437 (0.296)	137	370719			0.00- 81.19	32.35
11 Chloromethane					CAS #: 74-87-3		
1.479	1.478 (0.305)	50	280352	59.2369	59.237	80.00- 120.00	100.00
1.479	1.478 (0.305)	52	94747			0.00- 89.83	33.80
13 Butane					CAS #: 106-97-8		
1.549	1.548 (0.320)	58	71322	41.8981	41.898	80.00- 120.00	100.00
1.549	1.548 (0.320)	43	544962			671.03- 771.03	764.08
14 Vinyl Chloride					CAS #: 75-01-4		
1.577	1.576 (0.325)	62	540080	74.6707	74.671	80.00- 120.00	100.00(R)
1.577	1.576 (0.325)	64	183140			9.16- 109.16	33.91
15 1,3-Butadiene					CAS #: 106-99-0		
1.605	1.604 (0.331)	54	472134	60.6603	60.660	80.00- 120.00	100.00
1.605	1.604 (0.331)	39	531931			86.04- 186.04	112.67
21 Bromomethane					CAS #: 74-83-9		
1.884	1.884 (0.389)	94	569946	61.1963	61.196	80.00- 120.00	100.00
1.884	1.884 (0.389)	96	537927			43.85- 143.85	94.38
24 Chloroethane					CAS #: 75-00-3		
1.968	1.968 (0.406)	64	379173	64.2216	64.222	80.00- 120.00	100.00
1.968	1.968 (0.406)	66	102436			0.00- 91.47	27.02
1.968	1.968 (0.406)	49	82252			0.00- 76.92	21.69

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
25 Isopentane					CAS #: 78-78-4		
1.996	1.996 (0.412)	43	817250	56.7353	56.735	80.00- 120.00	100.00
1.996	1.996 (0.412)	57	533630			17.32- 117.32	65.30
28 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
2.173	2.173 (0.449)	101	1502881	52.3708	52.371	80.00- 120.00	100.00
2.173	2.173 (0.449)	103	974892			16.11- 116.11	64.87
29 Ethanol					CAS #: 64-17-5		
2.388	2.388 (0.493)	45	203169	55.8399	55.840	80.00- 120.00	100.00
2.388	2.388 (0.493)	43	44741			0.00- 70.33	22.02
2.388	2.388 (0.493)	46	83617			0.00- 85.62	41.16
30 Freon 113					CAS #: 76-13-1		
2.668	2.660 (0.551)	151	884540	46.2191	46.219	80.00- 120.00	100.00
2.668	2.660 (0.551)	153	561150			15.27- 115.27	63.44
2.668	2.660 (0.551)	101	1121993			70.04- 170.04	126.84
32 1,1-Dichloroethene					CAS #: 75-35-4		
2.696	2.696 (0.556)	96	540047	49.2075	49.208	80.00- 120.00	100.00
2.696	2.696 (0.556)	98	341013			13.42- 113.42	63.15
2.696	2.696 (0.556)	61	863381			102.48- 202.48	159.87
34 Acetone					CAS #: 67-64-1		
2.811	2.811 (0.580)	58	270056	55.4219	55.422	80.00- 120.00	100.00
2.804	2.811 (0.579)	43	903716			294.99- 394.99	334.64
35 Carbon Disulfide					CAS #: 75-15-0		
2.918	2.918 (0.602)	76	1702182	58.6251	58.625	80.00- 120.00	100.00
37 2-Propanol					CAS #: 67-63-0		
2.947	2.947 (0.608)	45	995816	53.1112	53.111	80.00- 120.00	100.00
2.947	2.947 (0.608)	43	201378			0.00- 68.53	20.22
2.947	2.947 (0.608)	59	37556			0.00- 53.71	3.77
41 3-Chloropropene					CAS #: 107-05-1		
3.126	3.126 (0.645)	76	283015	56.6745	56.674	80.00- 120.00	100.00
3.126	3.126 (0.645)	41	809761			233.43- 333.43	286.12
43 Methylene Chloride					CAS #: 75-09-2		
3.291	3.298 (0.679)	49	626543	54.3369	54.337	80.00- 120.00	100.00
3.298	3.298 (0.681)	84	489987			30.55- 130.55	78.20
3.298	3.298 (0.681)	51	190357			0.00- 78.00	30.38
46 tert-Butyl-Alcohol					CAS #: 75-65-0		
3.398	3.405 (0.701)	57	15625	4.65134	4.651	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 tert-Butyl-Alcohol (continued)							
3.398	3.405 (0.701)	41	35245			51.88- 151.88	225.57
3.398	3.405 (0.701)	59	142376			274.92- 374.92	911.19
47 MTBE					CAS #: 1634-04-4		
3.520	3.520 (0.726)	73	1529064	54.6962	54.696	80.00- 120.00	100.00
3.513	3.520 (0.725)	57	340358			0.00- 69.69	22.26
3.520	3.520 (0.726)	41	366319			0.00- 74.36	23.96
48 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.542	3.541 (0.731)	98	413321	55.4401	55.440	80.00- 120.00	100.00
3.542	3.541 (0.731)	61	925074			165.89- 265.89	223.81
3.542	3.541 (0.731)	96	638641			102.74- 202.74	154.51
51 Hexane					CAS #: 110-54-3		
3.756	3.756 (0.775)	57	941780	51.9569	51.957	80.00- 120.00	100.00
3.756	3.756 (0.775)	43	636872			20.84- 120.84	67.62
3.764	3.756 (0.777)	86	163075			0.00- 67.84	17.32
58 Isopropyl ether					CAS #: 108-20-3		
4.021	4.021 (0.830)	45	266958	5.14467	5.145	80.00- 120.00	100.00
4.029	4.021 (0.831)	87	80769			0.00- 82.08	30.26
4.021	4.021 (0.830)	59	32370			0.00- 62.26	12.13
59 1,1-Dichloroethane					CAS #: 75-34-3		
4.029	4.028 (0.831)	63	1123478	51.7950	51.795	80.00- 120.00	100.00
4.029	4.028 (0.831)	65	358357			0.00- 82.97	31.90
61 Vinyl Acetate					CAS #: 108-05-4		
4.072	4.064 (0.840)	86	160854	51.7953	51.795	80.00- 120.00	100.00
4.064	4.064 (0.839)	43	1822878			1048.02-1148.02	1133.25
68 t-Butylethyl Ether					CAS #: 637-92-3		
4.387	4.387 (0.905)	59	194164	6.00955	6.010	80.00- 120.00	100.00
4.380	4.387 (0.904)	87	77084			0.00- 92.49	39.70
4.387	4.387 (0.905)	41	44510			0.00- 68.70	22.92
73 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.616	4.616 (0.953)	98	409087	50.1950	50.195	80.00- 120.00	100.00
4.616	4.616 (0.953)	96	636262			107.00- 207.00	155.53
4.616	4.616 (0.953)	61	846463			156.77- 256.77	206.91
74 2-Butanone					CAS #: 78-93-3		
4.638	4.637 (0.957)	72	325384	49.8510	49.851	80.00- 120.00	100.00
4.638	4.637 (0.957)	43	1384425			367.38- 467.38	425.47
4.638	4.637 (0.957)	57	99363			0.00- 82.47	30.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
75 Tetrahydrofuran					CAS #: 109-99-9		
4.845	4.845 (1.000)	42	796683	50.6062	50.606	80.00- 120.00	100.00
4.845	4.845 (1.000)	71	285577			0.00- 85.96	35.85
4.845	4.845 (1.000)	72	308704			0.00- 88.91	38.75
78 Chloroform					CAS #: 67-66-3		
4.917	4.917 (1.015)	83	1203466	47.5252	47.525	80.00- 120.00	100.00
4.917	4.917 (1.015)	85	794779			15.14- 115.14	66.04
80 Cyclohexane					CAS #: 110-82-7		
5.031	5.024 (1.038)	84	830683	48.2223	48.222	80.00- 120.00	100.00
5.031	5.024 (1.038)	56	987072			68.72- 168.72	118.83
5.024	5.024 (1.037)	41	576021			19.25- 119.25	69.34
81 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.046	5.046 (1.041)	97	1127370	44.4811	44.481	80.00- 120.00	100.00
5.046	5.046 (1.041)	99	732334			13.46- 113.46	64.96
82 Carbon Tetrachloride					CAS #: 56-23-5		
5.160	5.160 (1.065)	119	1082235	43.8294	43.829	80.00- 120.00	100.00
5.160	5.160 (1.065)	117	1132480			53.73- 153.73	104.64
87 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.368	5.368 (1.108)	57	2953886	50.8117	50.812	80.00- 120.00	100.00
5.368	5.368 (1.108)	56	997535			0.00- 83.36	33.77
5.368	5.368 (1.108)	41	785713			0.00- 79.00	26.60
88 Benzene					CAS #: 71-43-2		
5.375	5.375 (0.933)	78	1874596	53.2461	53.246	80.00- 120.00	100.00
5.375	5.375 (0.933)	77	438568			0.00- 75.11	23.40
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
5.454	5.454 (1.126)	73	173107	5.75065	5.751	80.00- 120.00	100.00
5.454	5.454 (1.126)	87	38704			0.00- 73.83	22.36
5.454	5.454 (1.126)	55	48568			0.00- 76.83	28.06
93 1,2-Dichloroethane					CAS #: 107-06-2		
5.468	5.461 (0.949)	62	810796	49.4879	49.488	80.00- 120.00	100.00
5.468	5.461 (0.949)	64	268219			0.00- 84.79	33.08
94 Heptane					CAS #: 142-82-5		
5.540	5.540 (0.961)	71	699396	51.9271	51.927	80.00- 120.00	100.00
5.540	5.540 (0.961)	43	1268284			135.14- 235.14	181.34
5.540	5.540 (0.961)	57	640320			42.76- 142.76	91.55
102 Trichloroethene					CAS #: 79-01-6		
5.956	5.955 (1.034)	95	796515	49.9769	49.977	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
102 Trichloroethene (continued)							
5.956	5.955 (1.034)	130	820010			51.95- 151.95	102.95
5.956	5.955 (1.034)	97	507046			13.87- 113.87	63.66
104 Methyl Cyclohexane					CAS #: 108-87-2		
6.063	6.063 (1.251)	83	1060043	46.6298	46.630	80.00- 120.00	100.00
6.063	6.063 (1.251)	98	499257			0.00- 99.36	47.10
6.063	6.063 (1.251)	55	874547			32.31- 132.31	82.50
106 1,2-Dichloropropane					CAS #: 78-87-5		
6.199	6.199 (1.076)	63	703850	51.0681	51.068	80.00- 120.00	100.00
6.199	6.199 (1.076)	62	505685			19.50- 119.50	71.85
6.199	6.199 (1.076)	41	405827			12.61- 112.61	57.66
107 1,4-Dioxane					CAS #: 123-91-1		
6.285	6.285 (1.091)	88	405629	47.4622	47.462	80.00- 120.00	100.00
6.285	6.285 (1.091)	58	297605			22.28- 122.28	73.37
6.285	6.285 (1.091)	57	95348			0.00- 73.35	23.51
109 Bromodichloromethane					CAS #: 75-27-4		
6.428	6.428 (1.116)	83	1182399	46.7532	46.753	80.00- 120.00	100.00
6.428	6.428 (1.116)	85	763658			13.18- 113.18	64.59
112 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
6.815	6.815 (1.183)	75	995827	48.8047	48.805	80.00- 120.00	100.00
6.815	6.815 (1.183)	77	315164			0.00- 81.33	31.65
6.815	6.815 (1.183)	39	516797			7.75- 107.75	51.90
114 4-Methyl-2-pentanone					CAS #: 108-10-1		
6.930	6.930 (1.203)	58	563169	48.3285	48.328	80.00- 120.00	100.00
6.930	6.930 (1.203)	43	1548247			229.92- 329.92	274.92
6.930	6.930 (1.203)	85	227752			0.00- 92.97	40.44
116 Toluene					CAS #: 108-88-3		
7.051	7.051 (1.224)	91	1972074	47.6205	47.620	80.00- 120.00	100.00
7.051	7.051 (1.224)	92	1173324			10.41- 110.41	59.50
123 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.302	7.302 (0.886)	75	998778	49.9917	49.992	80.00- 120.00	100.00
7.302	7.302 (0.886)	77	321504			0.00- 82.90	32.19
7.302	7.302 (0.886)	39	515528			5.93- 105.93	51.62
128 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.453	7.452 (0.904)	97	716333	51.1452	51.145	80.00- 120.00	100.00
7.453	7.452 (0.904)	99	448539			12.18- 112.18	62.62
7.453	7.452 (0.904)	83	622748			36.73- 136.73	86.94

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
131 Tetrachloroethene					CAS #: 127-18-4		
7.496	7.495 (0.910)	166	886328	48.8906	48.890	80.00- 120.00	100.00
7.496	7.495 (0.910)	129	686922			28.04- 128.04	77.50
7.496	7.495 (0.910)	131	652413			22.71- 122.71	73.61
135 2-Hexanone					CAS #: 591-78-6		
7.632	7.632 (0.926)	58	787608	51.4167	51.417	80.00- 120.00	100.00
7.632	7.632 (0.926)	43	1546997			147.09- 247.09	196.42
7.632	7.632 (0.926)	100	153538			0.00- 70.49	19.49
138 Dibromochloromethane					CAS #: 124-48-1		
7.768	7.768 (0.943)	129	1122589	50.0130	50.013	80.00- 120.00	100.00
7.768	7.768 (0.943)	127	867608			27.79- 127.79	77.29
140 1,2-Dibromoethane					CAS #: 106-93-4		
7.882	7.875 (0.957)	107	1125617	53.8186	53.818	80.00- 120.00	100.00
7.882	7.875 (0.957)	109	1077164			45.62- 145.62	95.70
145 Chlorobenzene					CAS #: 108-90-7		
8.262	8.262 (1.003)	112	1617341	52.1634	52.163	80.00- 120.00	100.00
8.262	8.262 (1.003)	114	516353			0.00- 82.30	31.93
8.262	8.262 (1.003)	77	941622			21.61- 121.61	58.22
147 Ethyl Benzene					CAS #: 100-41-4		
8.319	8.319 (1.010)	106	843083	51.8977	51.898	80.00- 120.00	100.00
8.319	8.319 (1.010)	91	2591325			253.16- 353.16	307.36
150 m,p-Xylene					CAS #: 108-38-3		
8.420	8.419 (1.022)	106	1053977	53.0268	53.027	80.00- 120.00	100.00
8.420	8.419 (1.022)	91	2039856			149.33- 249.33	193.54
153 o-Xylene					CAS #: 95-47-6		
8.763	8.763 (1.063)	106	979266	54.0512	54.051	80.00- 120.00	100.00
8.763	8.763 (1.063)	91	1982269			156.46- 256.46	202.42
154 Styrene					CAS #: 100-42-5		
8.785	8.778 (1.066)	104	1618950	54.3396	54.340	80.00- 120.00	100.00
8.778	8.778 (1.065)	78	785271			1.45- 101.45	48.50
155 Bromoform					CAS #: 75-25-2		
8.971	8.971 (1.089)	173	940330	49.7629	49.763	80.00- 120.00	100.00
8.971	8.971 (1.089)	171	487241			2.03- 102.03	51.82
156 Cumene					CAS #: 98-82-8		
9.050	9.050 (1.098)	105	2695671	52.9143	52.914	80.00- 120.00	100.00
9.057	9.050 (1.099)	120	777238			0.00- 78.61	28.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
156 Cumene (continued)							
9.050	9.050 (1.098)	51	282922			0.00- 61.59	10.50
161 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.365	9.365 (1.136)	83	1548615	57.6729	57.673	80.00- 120.00	100.00
9.365	9.365 (1.136)	85	1005451			13.91- 113.91	64.93
162 Propylbenzene					CAS #: 103-65-1		
9.401	9.401 (1.141)	91	3339816	56.9469	56.947	80.00- 120.00	100.00
9.401	9.401 (1.141)	120	803750			0.00- 73.78	24.07
9.401	9.401 (1.141)	105	123090			0.00- 53.86	3.69
163 4-Ethyltoluene					CAS #: 622-96-8		
9.494	9.494 (1.152)	120	911192	54.8875	54.888	80.00- 120.00	100.00
9.494	9.494 (1.152)	105	2849003			258.07- 358.07	312.67
166 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
9.874	9.874 (1.198)	120	1093236	54.4953	54.495	80.00- 120.00	100.00
9.874	9.874 (1.198)	105	2219498			155.69- 255.69	203.02
168 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.153	10.153 (1.232)	146	1532626	52.7817	52.782	80.00- 120.00	100.00
10.153	10.153 (1.232)	148	987993			13.04- 113.04	64.46
10.153	10.153 (1.232)	111	623935			0.00- 90.17	40.71
169 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.232	10.232 (1.242)	146	1577920	55.3670	55.367	80.00- 120.00	100.00
10.232	10.232 (1.242)	148	1021708			14.53- 114.53	64.75
10.232	10.232 (1.242)	111	616161			0.00- 90.65	39.05
170 alpha-Chlorotoluene					CAS #: 100-44-7		
10.354	10.353 (1.256)	91	2020643	50.2500	50.250	80.00- 120.00	100.00
10.354	10.353 (1.256)	126	448164			0.00- 71.45	22.18
171 1,2-Dichlorobenzene					CAS #: 95-50-1		
10.561	10.561 (1.282)	146	1425577	55.7352	55.735	80.00- 120.00	100.00
10.554	10.561 (1.281)	148	919929			14.08- 114.08	64.53
10.554	10.561 (1.281)	111	597626			0.00- 94.71	41.92
174 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
11.929	11.929 (1.448)	180	1012631	50.5228	50.523	80.00- 120.00	100.00
11.929	11.929 (1.448)	182	961814			45.73- 145.73	94.98

				CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
175 Hexachlorobutadiene					CAS #: 87-68-3		
12.023	12.022 (1.459)	225	600066	46.9016	46.902	80.00- 120.00	100.00
12.023	12.022 (1.459)	223	378640			17.13- 117.13	63.10
176 Naphthalene					CAS #: 91-20-3		
12.180	12.180 (1.478)	128	339326	3.70570	3.706	80.00- 120.00	100.00
12.180	12.180 (1.478)	127	44277			0.00- 62.50	13.05

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3052803.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msd3.i/28may10.b/310q0520a.m
Misc Info: 50ppbv(200ppbv)

Calibration Date: 28-MAY-2010
Calibration Time: 09:28
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	258568	155141	361995	254867	-1.43
97 1,4-Difluorobenze	878539	527123	1229955	922928	5.05
144 Chlorobenzene-d5	772301	463381	1081221	776469	0.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
76 Bromochloromethan	4.85	4.52	5.18	4.85	0.00
97 1,4-Difluorobenze	5.76	5.43	6.09	5.76	0.00
144 Chlorobenzene-d5	8.24	7.91	8.57	8.24	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd3.i/28may10.b/3052803.d

Date : 28-MAY-2010 10:01

Client ID: LCS

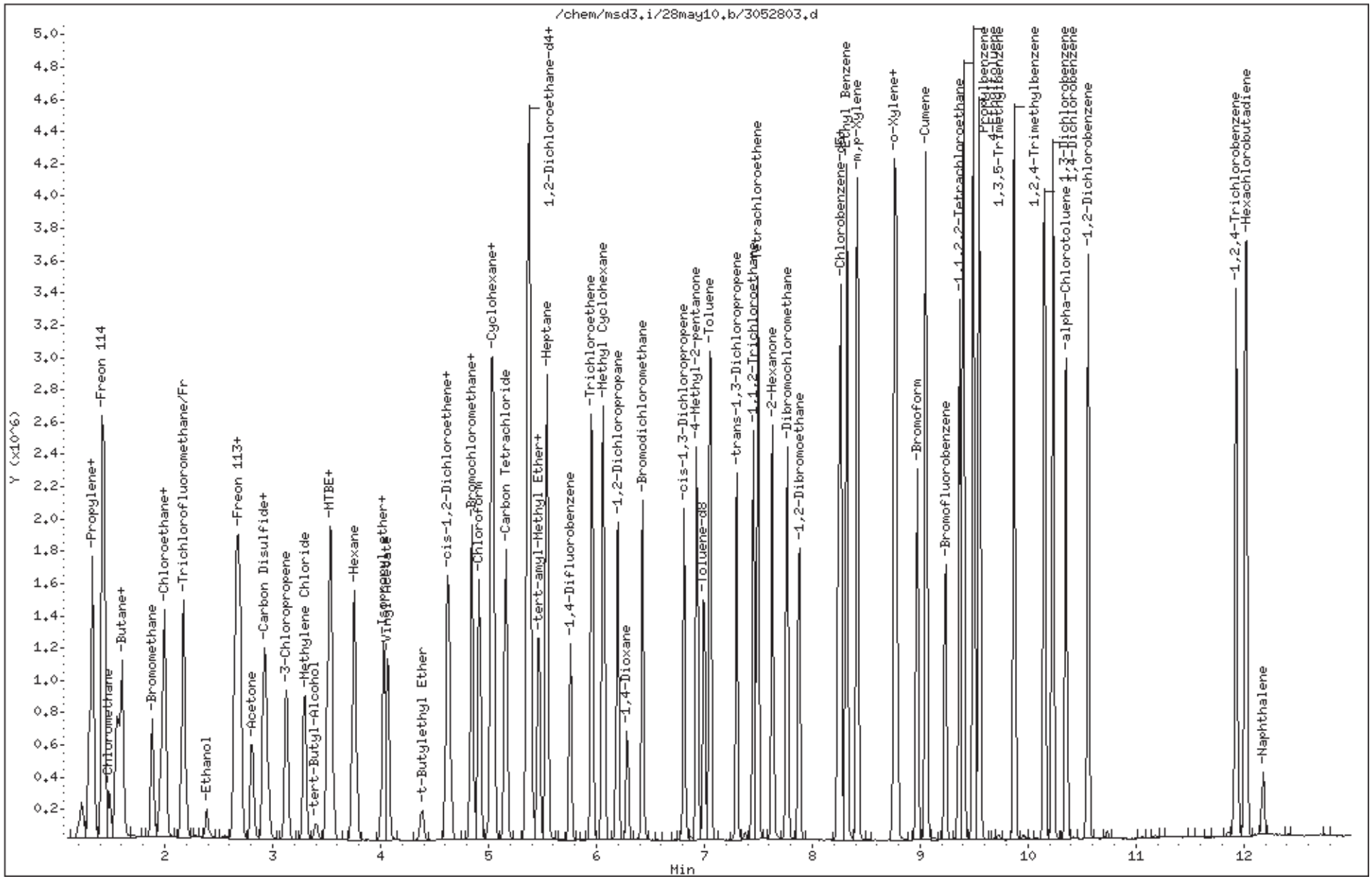
Sample Info: 50mL #1936-114

Column phase: RTx-624

Instrument: msd3.i

Operator: cr

Column diameter: 0.53



@ Air Toxics Ltd.

MSD-3

Logbook #: 1885

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.68
75	30.0 – 60.0% of mass 95	44.88
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	7.06
173	Less than 2.0% of mass 174	(0.63)[1]
174	50.0 – 100% of mass 95	71.02
175	5.0 – 9.0% of mass 174	(7.10)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.51)[1]
177	5.0 – 9.0% of mass 176	(6.47)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 5/27/10

BFB Injection Time: 0849

BFB File ID: 3052701

Tekmar Purge Flow: 71 ml/min 5/27/10

Vacuum:

IS/S Std.#: 1936-174	Exp. Date: 8/13/10
BCM 258488	
1,4-DFB 894304	
CB-d5 791587	

Verified CCV IS vs ICAL mid-point (- 40%D) dcs *initials*

Verify 176/174 m/z Ratio: (208128 / 213440) 100 = 97.51

NOAH Cart #: — **File #:** —

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(885692)}{(894304)} \times \frac{(25)}{(0.96385)} = 25.706$

File ID:	3052702
Compound:	Toluene-d8
Initials:	dcs

Reported Result 25.706

Method: 310g 0520a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	3052701	BFB Tune Check	1936-174	36 psig	1mL	1.00	dcs	5/27/10	0849	dcs	
2	✓	02	CCV (200ppbv)	1936-182	50ppbv	50mL	↓	↓	↓	0924	dcs	
3	✓	03	VOs ↓	1959-174	↓	↓	↓	↓	↓	0947	dcs	vcan
4	✓	04	TPHg CCV	1936-TCC	500ppbv	40mL	↓	↓	↓	1028	dcs	
5	X	05	System Blank	917	humid	200mL	↓	↓	↓	1057	dcs	
6	✓	06	Lab Blank	↓	↓	↓	↓	↓	↓	1116	dcs	
7	X	07	1005391-01A	1455	5"Hg → 15 psi	100mL	4.84	↓	↓	1147	dcs	
8	X	08	↓ 01AA	↓	↓	↓	↓	↓	↓	1211	dcs	

dcs/MS

Signature

5/27/10

Date

@ Air Toxics Ltd.

MSD-3

Logbook #: 1885

9	✓	30527709	1005391-01A	1455	5"Hg → 15psi	200mL	2.42	ABB	5/27/10	1252	[illegible]	
10	✓	10	-03A	20780	7"Hg → 15psi	75mL	7.04			1315	[illegible]	DUPT
11	✓	11	-04A	35662	7.5"Hg → 15psi	150mL	3.59			1339	[illegible]	↓
12	✓	12	-04AA	↓	↓	↓	↓			1419	[illegible]	DUPT
13	X	13	1005384-06A	94932	4"Hg → 15psi	10mL	4/6.6			1442	″	over-diluted
14	X	14	1005377-01A	2190	2.5"Hg → 15psi	200mL	2.20	↓		1506	″	Missing Spot. Blank.
15	X	15	System Blank	917	Humid	200mL	1.00	″		1803	″	
16	✓	16	System Blank	34261	Humid	200mL	1.00			1840	″	
17	✓	17	1005377-01A	2190	2.5"Hg (15psi)	200mL	2.20			1824	″	
18	✓	18	1005384-06A	94932	4.0"Hg (15psi)	15mL	31.1			1948	″	
19	X	19	System Blank	917	Humid	200mL	1.00			2014	″	PCE>RL
20	✓	20	↓	↓	↓	↓	↓			2120	″	
21	✓	21	1005607A-01A	34599	5.0"Hg (15psi)	200mL	2.42			2151	″	
22	X	22	1005453A-01A	1575	9.0"Hg (15psi)	20.0mL	19.1			2227	″	over-diluted
23	✓	23	1005453A-01A	1575	9.0"Hg (15psi)	200mL	1.91			2312	″	
24	✓	24	-02A	13667	9.0"Hg (15psi)	200mL	1.91			2335	″	
25	✓	25	-03A	3038	8.4"Hg (15psi)	200mL	1.86		↓	2359	″	
26	✓	26	-04A	1330	14.0"Hg (15psi)	200mL	2.51		5/28/10	0111	″	
27	✓	27	-05A	3370	8.6"Hg (15psi)	200mL	1.88			0139	[illegible]	
28												
29												
30												
31			[illegible]									

Comments:

[illegible]
Signature

05/28/10
Date

@ Air Toxics Ltd.

MSD-3

Logbook #: 1885

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.60
75	30.0 – 60.0% of mass 95	44.74
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	6.74
173	Less than 2.0% of mass 174	(0.51)[1]
174	50.0 – 100% of mass 95	72.73
175	5.0 – 9.0% of mass 174	(6.93)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.73)[1]
177	5.0 – 9.0% of mass 176	(6.70)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: 21226/21934 *100% = 96.73% ✓

BFB Injection Date: 05/28/10

BFB Injection Time: 0859

BFB File ID: 3052801

Tekmar Purge Flow: 7 CR

Vacuum: 5 05/28/10

IS/S Std.#:	1936-174	Exp. Date: 05/13/10
BCM	2585168	
1,4-DFB	878539	
CB-d5	772.301	

Verified CCV IS vs ICAL mid-point (- 40%D) CR *initials*

NOAH Cart #: NA **File #:** NA

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 867914\ )}{(\ 878539\ )} \times \frac{(\ 25.00\ )}{(\ 0.96315\ )} = 25.643$

File ID:	3052802
Compound:	Toluene-d8
Initials:	CR

Reported Result 25.643

Method: 310g0520A

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	3052801	BFB Tune Check	1936-174	3 lang	1mL	1.00	BO	5/28/10	0859	CR	
2	✓	02	CCV (200 ppbv)	1936-182	50ppbv	50mL	1.00	CR		0928	CR	@ out
3	✓	03	LCS (200 ppbv)	1936-114	50ppbv	50mL	1.00	CR		1001	CR	1 out : Vinyl Chloride
4	✓	04	TPHg CCV (2500 ppbv)	1936-1606	500ppbv	40mL	1.00	CR		1029	CR	TPHg CCV @ 95 %
5	✓	05	System Blank	917	Humid	200mL	1.00	CR		1055	CR	
6	✓	06	Lab Blank	917	Humid	200mL	1.00	CR		1120	CR	
7	✓	07	1005453A-14A	34371	9.8"Hg-5psi	200mL	1.99	CR		1205	CR	
8	✓	08	" -14AA	34371	9.8"Hg-5psi	200mL	1.99	CR		1228	CR	

Signature

05/28/10
Date

@ Air Toxics Ltd.

MSD-3

Logbook #: 1885

9	✓	30528 09	1005453A-15A	4188	10"Hg-5psi	200mL	2.01	CR	05/28/2010	1405	CR	
10	✓	10	↓ -16A	35170	8.8"Hg-5psi	200mL	1.90	CR	|	1450	CR	
11		11	1005628A-01A	9710A	4"Hg-15psi	200mL	2.33	CR				
12		12	| -02A	22966	5"Hg-15psi	200mL	2.42	CR				
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												CR 05/28/10

0333 of 0402

Comments:

Signature

05/28/10
Date

Air Toxics Ltd.

Data file : /var/chem/msd3.i/20may10.b/3052001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-MAY-2010 10:45
Operator : acb Inst ID: msd3.i
Smp Info : 1ml #1936-174;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /var/chem/msd3.i/20may10.b/bfb30.m
Meth Date : 20-May-2010 10:55 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.236	9.235	0.001	95	333421			100.00- 100.00	100.00
9.236	9.235	0.001	50	65904			15.00- 40.00	19.77
9.236	9.235	0.001	75	156304			30.00- 60.00	46.88
9.236	9.235	0.001	96	20648			5.00- 9.00	6.19
9.236	9.235	0.001	173	1345			0.00- 1.99	0.55
9.236	9.235	0.001	174	242901			50.01- 100.00	72.85
9.236	9.235	0.001	175	17014			5.00- 9.00	7.00
9.236	9.235	0.001	176	235392			95.01- 100.99	96.91
9.236	9.235	0.001	177	15367			5.00- 9.00	6.53

Data File: /var/chem/msd3.i/20may10.b/3052001.d

Date : 20-MAY-2010 10:45

Client ID: BFB

Instrument: msd3.i

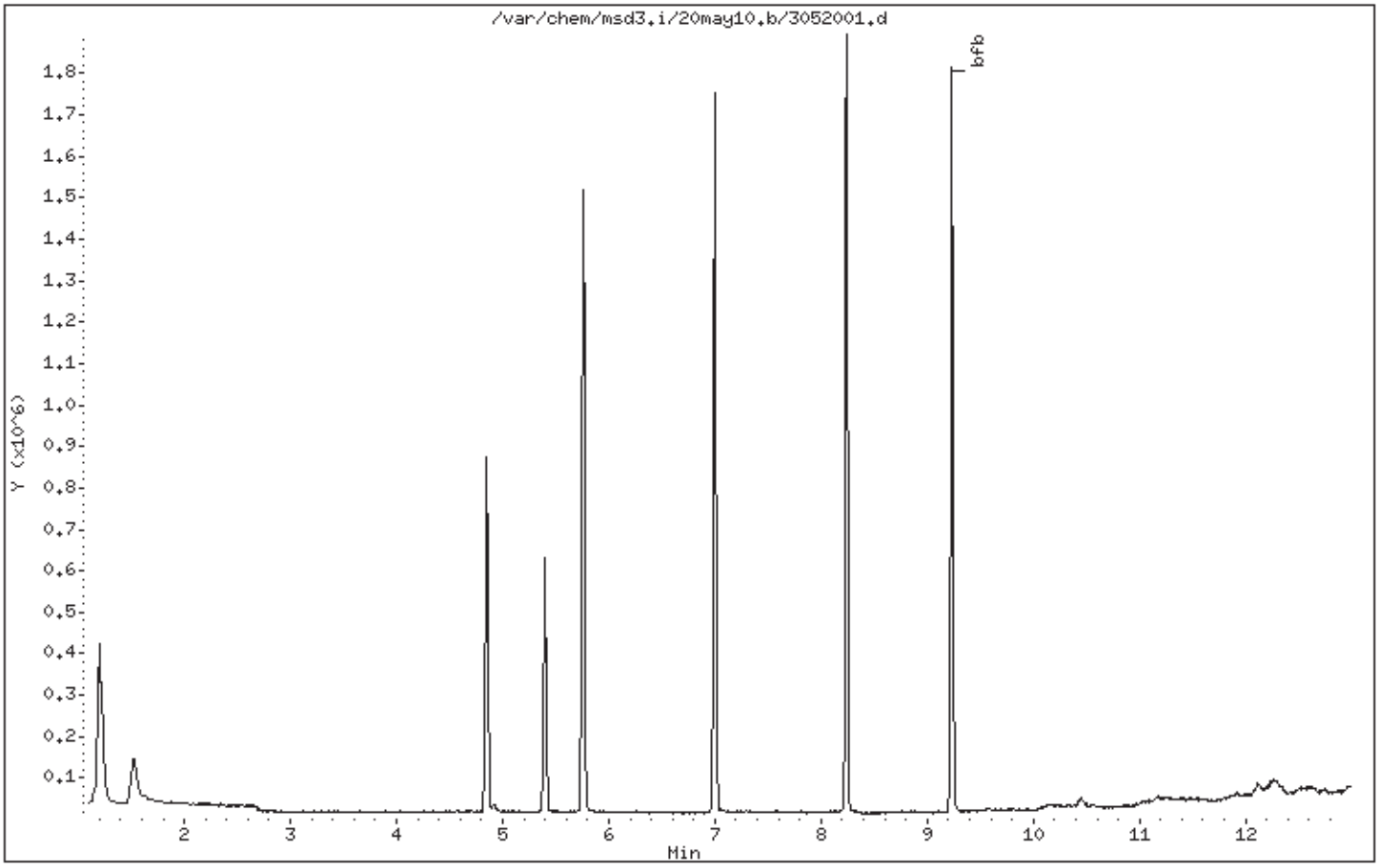
Sample Info: 1ml #1936-174;BFB Tune Check

Volume Injected (uL): 1.0

Operator: acb

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd3.i/20may10.b/3052001.d

Date : 20-MAY-2010 10:45

Client ID: BFB

Instrument: msd3.i

Sample Info: 1ml #1936-174;BFB Tune Check

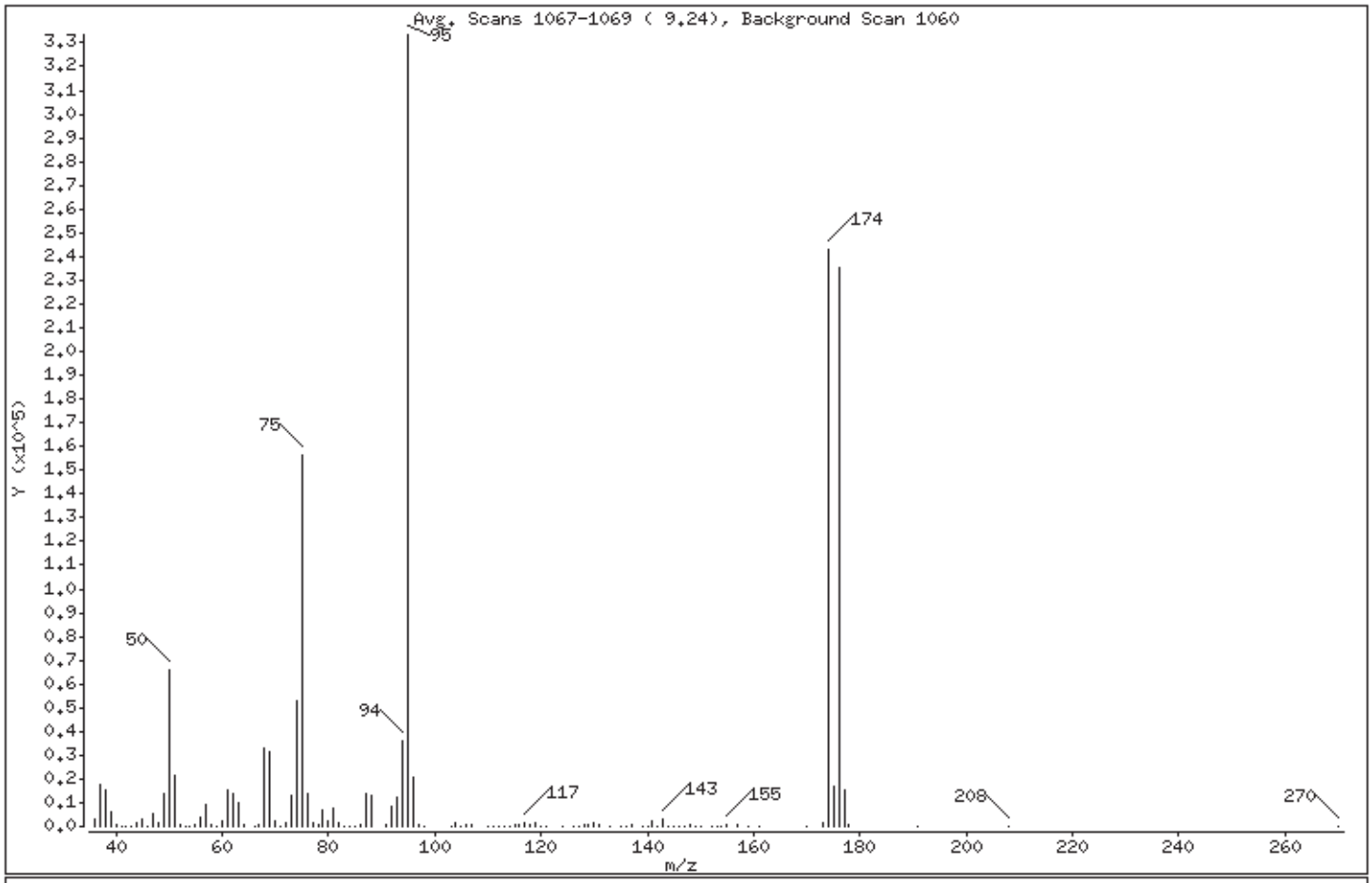
Volume Injected (uL): 1.0

Operator: acb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.77
75	30.00 - 60.00% of mass 95	46.88
96	5.00 - 9.00% of mass 95	6.19
173	Less than 1.99% of mass 174	0.40 (0.55)
174	50.01 - 100.00% of mass 95	72.85
175	5.00 - 9.00% of mass 174	5.10 (7.00)
176	95.01 - 100.99% of mass 174	70.60 (96.91)
177	5.00 - 9.00% of mass 176	4.61 (6.53)

Date : 20-MAY-2010 10:45

Client ID: BFB Instrument: msd3.i

Sample Info: 1ml #1936-174;BFB Tune Check

Volume Injected (uL): 1.0 Operator: acb

Column phase: Column diameter: 2.00

Data File: 3052001.d
Spectrum: Avg. Scans 1067-1069 (9.24), Background Scan 1060
Location of Maximum: 95.00
Number of points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2973	67.00	734	103.00	209	141.00	2288
37.00	17640	68.00	32888	104.00	1413	142.00	299
38.00	15621	69.00	31200	105.00	289	143.00	2720
39.00	5934	70.00	2147	106.00	1135	144.00	77
40.00	390	71.00	153	107.00	403	145.00	316
41.00	62	72.00	1443	110.00	160	146.00	378
42.00	276	73.00	13001	111.00	317	147.00	348
43.00	182	74.00	52704	112.00	350	148.00	577
44.00	1704	75.00	156288	113.00	106	149.00	223
45.00	3039	76.00	13742	114.00	50	150.00	269
46.00	276	77.00	1565	115.00	535	152.00	322
47.00	5182	78.00	1038	116.00	945	153.00	317
48.00	1703	79.00	6974	117.00	1808	154.00	234
49.00	13704	80.00	2488	118.00	1121	155.00	817
50.00	65904	81.00	7302	119.00	1392	157.00	458
51.00	21336	82.00	1689	120.00	56	159.00	367
52.00	1092	83.00	366	121.00	79	161.00	141
53.00	197	84.00	259	124.00	236	170.00	120
54.00	63	85.00	118	126.00	80	173.00	1345
55.00	924	86.00	479	127.00	292	174.00	242880
56.00	4152	87.00	14130	128.00	796	175.00	17008
57.00	9438	88.00	12693	129.00	535	176.00	235392
58.00	537	91.00	900	130.00	1193	177.00	15367
59.00	61	92.00	8369	131.00	555	178.00	505
60.00	2567	93.00	12029	133.00	79	191.00	241
61.00	15472	94.00	36304	135.00	147	208.00	134
62.00	14001	95.00	333376	136.00	67	270.00	53
63.00	10224	96.00	20648	137.00	585		
64.00	683	97.00	1052	139.00	121		
66.00	113	98.00	182	140.00	65		

Air Toxics Ltd.

Data file : /var/chem/msd3.i/21may10.b/3052101.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-MAY-2010 14:10
Operator : smd Inst ID: msd3.i
Smp Info : 1mL #1936-174;BFB Tune Check;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /var/chem/msd3.i/21may10.b/bfb30.m
Meth Date : 21-May-2010 14:20 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.236	9.235	0.001	95	439598			100.00- 100.00	100.00
9.236	9.235	0.001	50	81937			15.00- 40.00	18.64
9.236	9.235	0.001	75	200512			30.00- 60.00	45.61
9.236	9.235	0.001	96	30008			5.00- 9.00	6.83
9.236	9.235	0.001	173	1918			0.00- 1.99	0.58
9.236	9.235	0.001	174	330816			50.01- 100.00	75.25
9.236	9.235	0.001	175	22263			5.00- 9.00	6.73
9.236	9.235	0.001	176	319445			95.01- 100.99	96.56
9.236	9.235	0.001	177	20642			5.00- 9.00	6.46

Data File: /var/chem/msd3.i/21may10.b/3052101.d

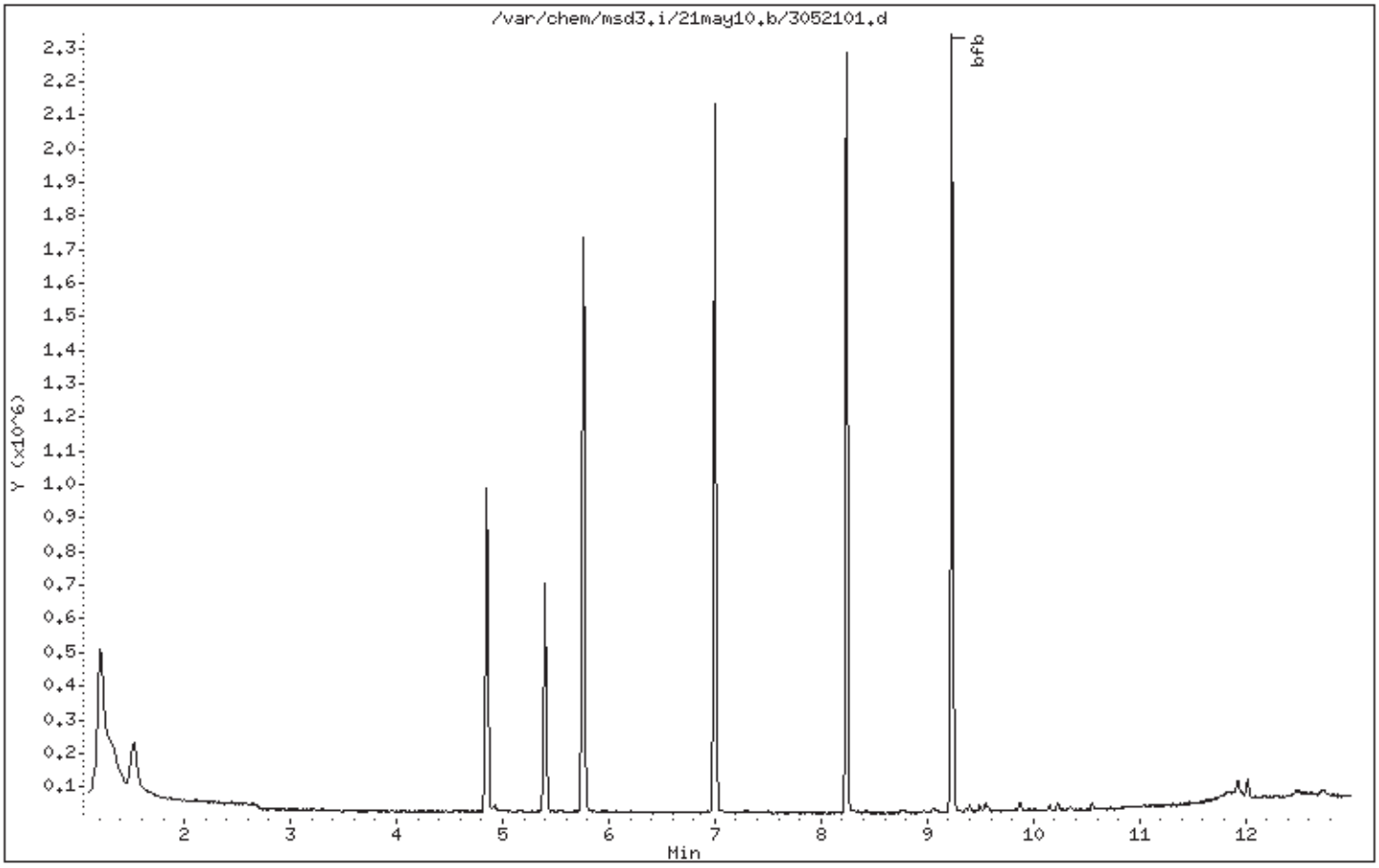
Date : 21-MAY-2010 14:10

Client ID: BFB Instrument: msd3.i

Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00



Data File: /var/chem/msd3.i/21may10.b/3052101.d

Date : 21-MAY-2010 14:10

Client ID: BFB

Instrument: msd3.i

Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

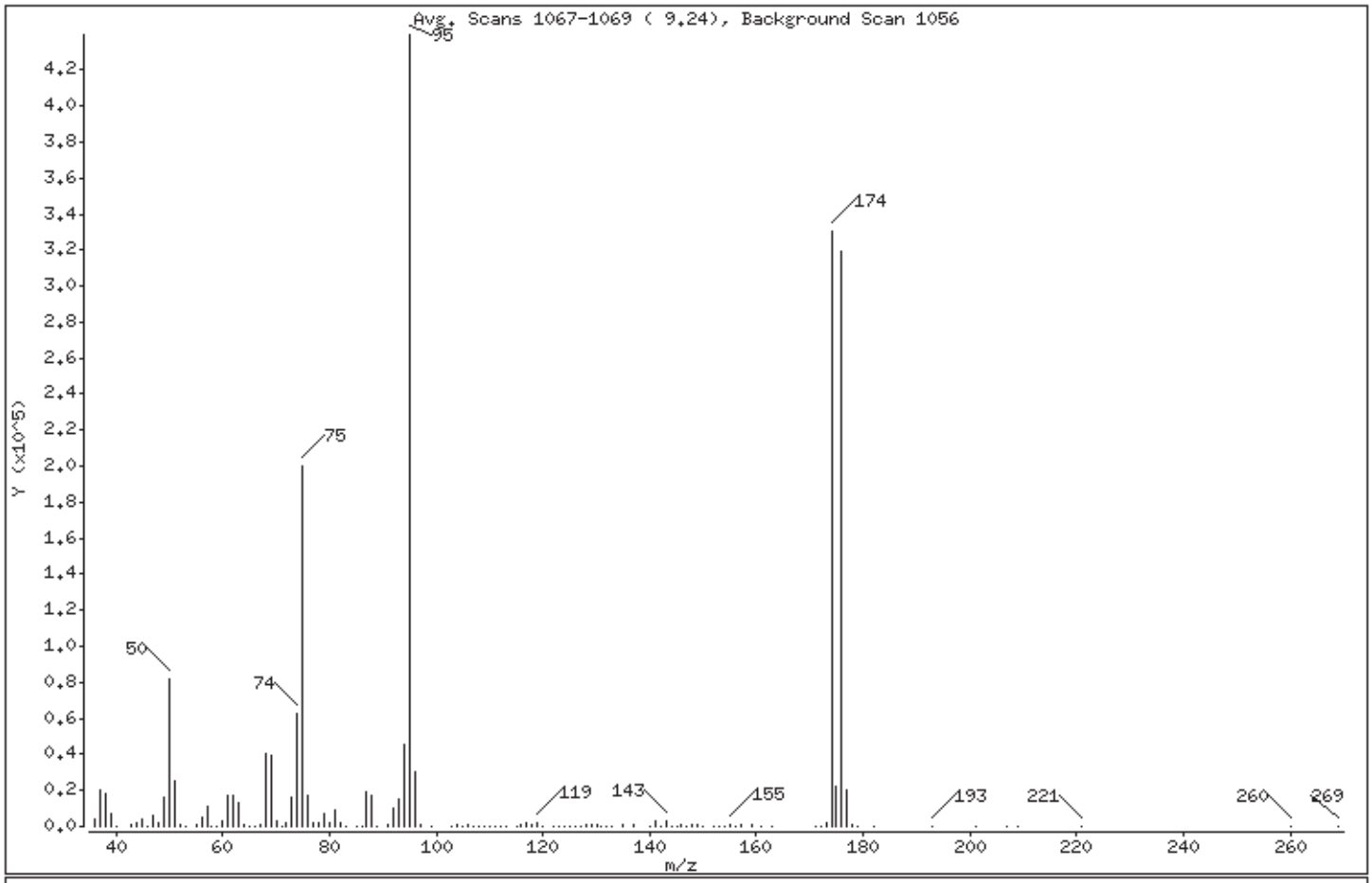
Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.64
75	30.00 - 60.00% of mass 95	45.61
96	5.00 - 9.00% of mass 95	6.83
173	Less than 1.99% of mass 174	0.44 (0.58)
174	50.01 - 100.00% of mass 95	75.25
175	5.00 - 9.00% of mass 174	5.06 (6.73)
176	95.01 - 100.99% of mass 174	72.67 (96.56)
177	5.00 - 9.00% of mass 176	4.70 (6.46)

Date : 21-MAY-2010 14:10

Client ID: BFB Instrument: msd3.i

Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 3052101.d
Spectrum: Avg. Scans 1067-1069 (9.24), Background Scan 1056
Location of Maximum: 95.00
Number of points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3539	71.00	33	109.00	66	147.00	302
37.00	20512	72.00	1931	110.00	261	148.00	812
38.00	18008	73.00	15808	111.00	150	149.00	537
39.00	7163	74.00	62400	112.00	272	150.00	487
40.00	489	75.00	200512	113.00	333	152.00	92
43.00	628	76.00	17176	115.00	490	153.00	415
44.00	2052	77.00	1780	116.00	1201	154.00	275
45.00	3546	78.00	1558	117.00	1559	155.00	1025
46.00	374	79.00	7280	118.00	1115	156.00	83
47.00	5651	80.00	2200	119.00	1721	157.00	701
48.00	2262	81.00	8776	120.00	71	159.00	510
49.00	15902	82.00	1666	122.00	60	161.00	363
50.00	81936	83.00	36	123.00	144	163.00	59
51.00	24800	85.00	116	124.00	216	171.00	139
52.00	1014	86.00	440	125.00	161	172.00	196
53.00	61	87.00	18936	126.00	240	173.00	1918
55.00	951	88.00	17672	127.00	147	174.00	330816
56.00	5512	89.00	129	128.00	1473	175.00	22256
57.00	11031	91.00	1003	129.00	800	176.00	319424
58.00	479	92.00	10342	130.00	1486	177.00	20640
59.00	147	93.00	15349	131.00	240	178.00	756
60.00	3307	94.00	45824	132.00	53	179.00	117
61.00	17184	95.00	439552	133.00	150	182.00	52
62.00	17024	96.00	30008	135.00	597	193.00	145
63.00	12930	97.00	913	137.00	695	201.00	71
64.00	1305	99.00	59	140.00	145	207.00	124
65.00	28	103.00	37	141.00	2688	209.00	10
66.00	164	104.00	1147	142.00	280	221.00	53
67.00	1177	105.00	505	143.00	3046	260.00	189
68.00	40400	106.00	1415	144.00	210	269.00	121
69.00	39336	107.00	359	145.00	332		
70.00	2580	108.00	75	146.00	713		

Air Toxics Ltd.

Data file : /chem/msd3.i/27may10.b/3052701.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 27-MAY-2010 08:49
Operator : acb Inst ID: msd3.i
Smp Info : 1mL #1936-174;BFB Tune Check;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /var/chem/msd3.i/27may10.b/bfb30.m
Meth Date : 27-May-2010 08:59 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.236	9.235	0.001	95	300544			100.00- 100.00	100.00
9.236	9.235	0.001	50	56141			15.00- 40.00	18.68
9.236	9.235	0.001	75	134898			30.00- 60.00	44.88
9.236	9.235	0.001	96	21230			5.00- 9.00	7.06
9.236	9.235	0.001	173	1346			0.00- 1.99	0.63
9.236	9.235	0.001	174	213440			50.01- 100.00	71.02
9.236	9.235	0.001	175	15162			5.00- 9.00	7.10
9.236	9.235	0.001	176	208128			95.01- 100.99	97.51
9.236	9.235	0.001	177	13462			5.00- 9.00	6.47

Data File: /chem/msd3.i/27may10.b/3052701.d

Date : 27-MAY-2010 08:49

Client ID: BFB

Instrument: msd3.i

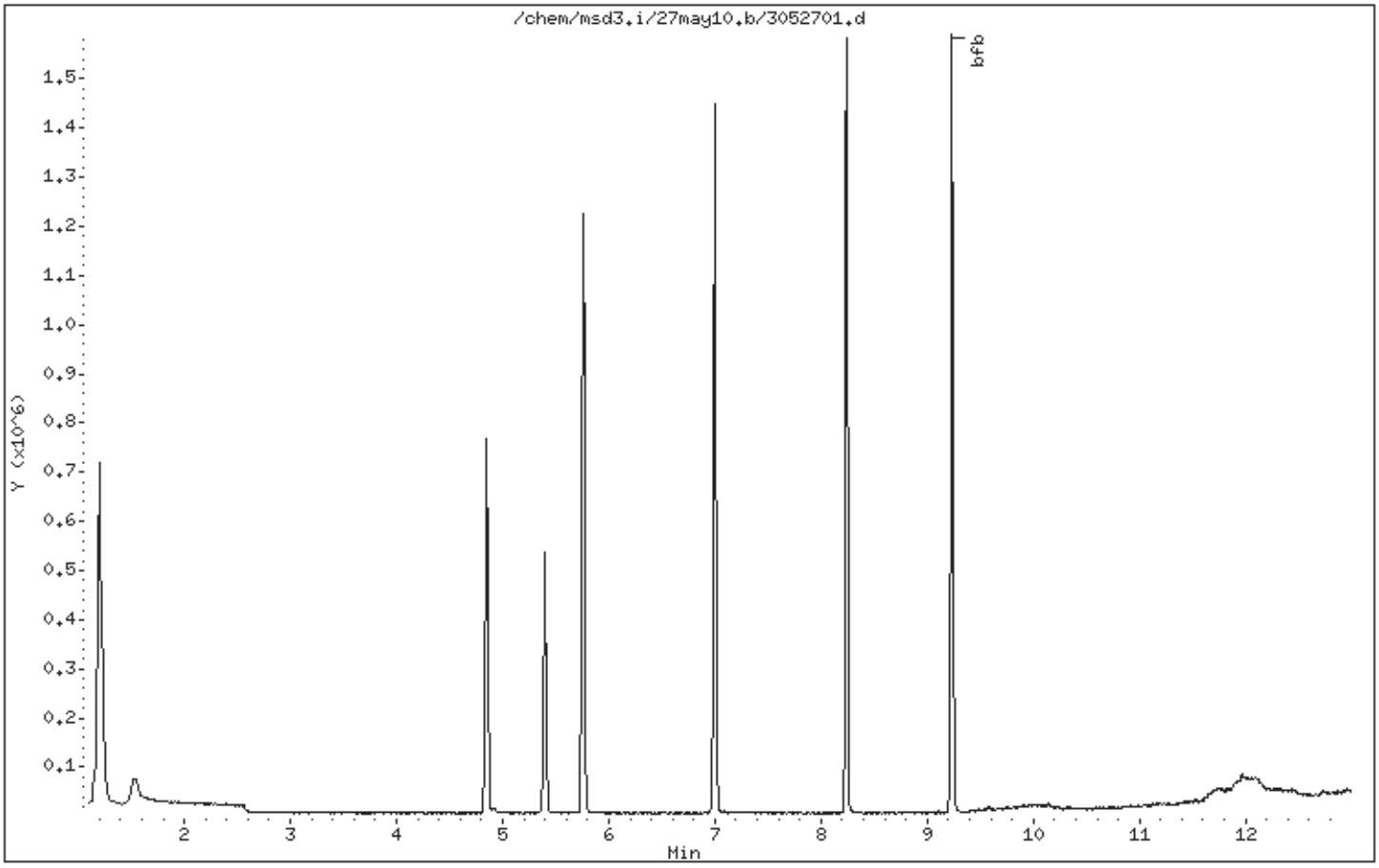
Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0

Operator: acb

Column phase:

Column diameter: 2.00



Data File: /chem/msd3.i/27may10.b/3052701.d

Date : 27-MAY-2010 08:49

Client ID: BFB

Instrument: msd3.i

Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

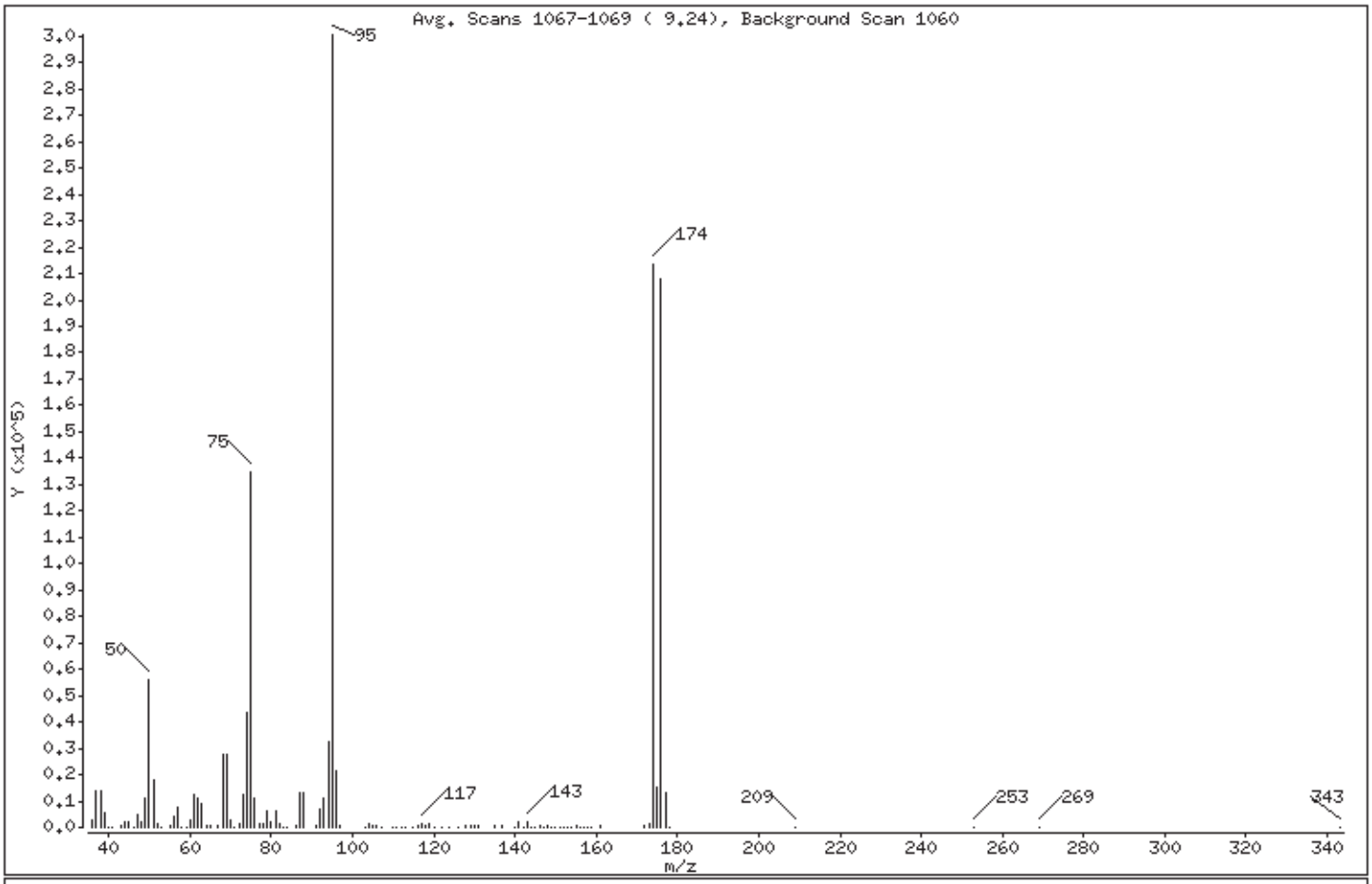
Volume Injected (uL): 1.0

Operator: acb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.68
75	30.00 - 60.00% of mass 95	44.88
96	5.00 - 9.00% of mass 95	7.06
173	Less than 1.99% of mass 174	0.45 (0.63)
174	50.01 - 100.00% of mass 95	71.02
175	5.00 - 9.00% of mass 174	5.04 (7.10)
176	95.01 - 100.99% of mass 174	69.25 (97.51)
177	5.00 - 9.00% of mass 176	4.48 (6.47)

Date : 27-MAY-2010 08:49

Client ID: BFB Instrument: msd3.i

Sample Info: 1mL #1936-174;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: acb

Column phase: Column diameter: 2.00

Data File: 3052701.d
Spectrum: Avg. Scans 1067-1069 (9.24), Background Scan 1060
Location of Maximum: 95.00
Number of points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2866	68.00	27712	105.00	512	147.00	307
37.00	14106	69.00	27696	106.00	901	148.00	635
38.00	13802	70.00	2692	107.00	326	149.00	181
39.00	5468	71.00	179	110.00	104	150.00	298
40.00	171	72.00	1263	111.00	247	151.00	52
41.00	56	73.00	12098	112.00	248	152.00	65
43.00	417	74.00	43272	113.00	50	153.00	181
44.00	1998	75.00	134848	115.00	226	154.00	76
45.00	2391	76.00	11312	116.00	850	155.00	548
46.00	291	77.00	1499	117.00	1463	156.00	217
47.00	4630	78.00	1389	118.00	772	157.00	309
48.00	1799	79.00	6204	119.00	1336	158.00	58
49.00	11123	80.00	2160	120.00	64	159.00	287
50.00	56136	81.00	6067	122.00	112	161.00	377
51.00	17736	82.00	1666	124.00	79	172.00	595
52.00	1083	83.00	345	126.00	65	173.00	1346
53.00	15	84.00	71	128.00	731	174.00	213440
55.00	424	86.00	571	129.00	431	175.00	15162
56.00	4154	87.00	13180	130.00	676	176.00	208128
57.00	7814	88.00	12965	131.00	398	177.00	13462
58.00	200	91.00	891	135.00	393	178.00	325
59.00	50	92.00	6955	137.00	456	209.00	69
60.00	2528	93.00	11097	140.00	52	253.00	81
61.00	12148	94.00	32472	141.00	1793	269.00	127
62.00	11388	95.00	300544	142.00	329	343.00	171
63.00	9238	96.00	21224	143.00	2086		
64.00	947	97.00	628	144.00	84		
65.00	514	103.00	160	145.00	304		
67.00	763	104.00	1091	146.00	478		

Air Toxics Ltd.

Data file : /var/chem/msd3.i/28may10.b/3052801.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 28-MAY-2010 08:59
Operator : lo Inst ID: msd3.i
Smp Info : 1mL #1936-174;BFB Tune Check;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /var/chem/msd3.i/28may10.b/bfb30.m
Meth Date : 28-May-2010 09:09 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.236	9.235	0.001	95	301696			100.00- 100.00	100.00
9.236	9.235	0.001	50	56124			15.00- 40.00	18.60
9.236	9.235	0.001	75	134986			30.00- 60.00	44.74
9.236	9.235	0.001	96	20329			5.00- 9.00	6.74
9.236	9.235	0.001	173	1115			0.00- 1.99	0.51
9.236	9.235	0.001	174	219434			50.01- 100.00	72.73
9.236	9.235	0.001	175	15214			5.00- 9.00	6.93
9.236	9.235	0.001	176	212266			95.01- 100.99	96.73
9.236	9.235	0.001	177	14229			5.00- 9.00	6.70