

207.912	20.8	0.0084 mg/L	0.00209	0.0084 mg/L	0.00209	24.83%
371.029	1725.1				25.46	1.48%
n 206.200	14625.1	0.9937 mg/L	0.00048	0.9937 mg/L	0.00048	0.05%
QC value within limits for Zn 206.200 Recovery = 99.37%						
213.617	-1768.2	-1.301 mg/L	0.0209	-1.301 mg/L	0.0209	1.60%
i 251.611	38687.4	0.9863 mg/L	0.01002	0.9863 mg/L	0.01002	1.02%
QC value within limits for Si 251.611 Recovery = 98.63%						
i 670.784	65266.4	0.9949 mg/L	0.01639	0.9949 mg/L	0.01639	1.65%
i 610.362	6837.0	0.9901 mg/L	0.06638	0.9901 mg/L	0.06638	6.70%
181.975	10.3	0.0423 mg/L	0.00069	0.0423 mg/L	0.00069	1.62%

c Failed. Continue with analysis.

ALAB: 00164

Sequence No.: 88

Sample ID: ICP_CCVGM(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 10/17/2012 3:49:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Scan Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected		Calib		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
328.068	69.7	0.0005	mg/L	0.00035	0.0005	mg/L	64.86%
308.215	53.9	0.0016	mg/L	0.00084	0.0016	mg/L	53.67%
188.979	-32.6	-0.0059	mg/L	0.00675	-0.0059	mg/L	114.90%
249.677	-3600.0	-0.0407	mg/L	0.00052	-0.0407	mg/L	1.26%
233.527	93.4	0.0009	mg/L	0.00000	0.0009	mg/L	0.27%
313.107	690.1	0.0003	mg/L	0.00005	0.0003	mg/L	14.92%
223.061	16.0	0.0074	mg/L	0.00496	0.0074	mg/L	67.28%
190.171	17.1	0.0211	mg/L	0.00149	0.0211	mg/L	7.03%
315.887	224772.5	99.42	mg/L	2.398	99.42	mg/L	2.41%
QC value within limits for Ca 315.887 Recovery = 99.42%							
317.933	266034.9	99.08	mg/L	2.496	99.08	mg/L	2.52%
QC value within limits for Ca 317.933 Recovery = 99.08%							
214.440	-31.7	-0.0007	mg/L	0.00005	-0.0007	mg/L	7.37%
228.616	27.6	0.0011	mg/L	0.00016	0.0011	mg/L	15.06%
267.716	103.0	0.0027	mg/L	0.00005	0.0027	mg/L	1.97%
324.752	1079.4	0.0036	mg/L	0.00031	0.0036	mg/L	8.43%
238.204	182.2	0.0046	mg/L	0.00006	0.0046	mg/L	1.31%
273.955	12.7	0.0008	mg/L	0.00074	0.0008	mg/L	97.07%
766.490	292640.3	99.85	mg/L	1.461	99.85	mg/L	1.46%
QC value within limits for K 766.490 Recovery = 99.85%							
279.077	24362.0	101.2	mg/L	0.67	101.2	mg/L	0.66%
QC value within limits for Mg 279.077 Recovery = 101.21%							
257.610	1578.6	0.0037	mg/L	0.00002	0.0037	mg/L	0.47%
202.031	36.1	0.0081	mg/L	0.00011	0.0081	mg/L	1.37%
589.592	653415.9	98.97	mg/L	1.076	98.97	mg/L	1.09%
QC value within limits for Na 589.592 Recovery = 98.97%							
330.237	782.0	101.6	mg/L	0.84	101.6	mg/L	0.83%
QC value within limits for Na 330.237 Recovery = 101.64%							
231.604	13.6	0.0007	mg/L	0.00016	0.0007	mg/L	22.56%
220.353	91.9	0.0047	mg/L	0.00130	0.0047	mg/L	27.86%
206.836	-14.4	-0.0131	mg/L	0.00204	-0.0131	mg/L	15.59%
196.026	-211.7	-0.0270	mg/L	0.00629	-0.0270	mg/L	23.29%
189.927	-103.8	-0.0337	mg/L	0.00023	-0.0337	mg/L	0.69%
407.771	468.8	0.0011	mg/L	0.00006	0.0011	mg/L	5.13%
421.552	229.0	0.0010	mg/L	0.00012	0.0010	mg/L	12.35%
334.940	3443.7	0.0094	mg/L	0.00009	0.0094	mg/L	0.97%
190.801	-76.0	-0.0137	mg/L	0.00172	-0.0137	mg/L	12.53%
290.880	-722.8	-0.0047	mg/L	0.00071	-0.0047	mg/L	15.21%
207.912	7.8	0.0032	mg/L	0.00201	0.0032	mg/L	63.59%
371.029	1450.8					35.63	2.46%
206.200	3.5	0.0002	mg/L	0.00064	0.0002	mg/L	268.61%
213.617	-12.2	-0.0090	mg/L	0.00948	-0.0090	mg/L	105.65%
251.611	739.9	0.0189	mg/L	0.00050	0.0189	mg/L	2.63%
670.784	88.5	0.0013	mg/L	0.00449	0.0013	mg/L	333.00%
610.362	-1781.3	-0.2580	mg/L	0.06984	-0.2580	mg/L	27.07%
181.975	6.0	0.0245	mg/L	0.02265	0.0245	mg/L	92.45%

1 analyte(s) passed QC.

ALAB: 001655

Sequence No.: 89
 Sample ID: ICP_CCB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 3:51:49 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Mean Data: ICP_CCB(Daily)

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
g 328.068	2302.5	0.0177 mg/L	0.00013	0.00013	0.0177 mg/L	0.00013	0.71%	
l 308.215	13.3	0.0004 mg/L	0.00044	0.00044	0.0004 mg/L	0.00044	114.02%	
s 188.979	25.8	0.0047 mg/L	0.00002	0.00002	0.0047 mg/L	0.00002	0.39%	
249.677	-4360.9	-0.0493 mg/L	0.00010	0.00010	-0.0493 mg/L	0.00010	0.21%	
a 233.527	37.3	0.0004 mg/L	0.00007	0.00007	0.0004 mg/L	0.00007	19.54%	
e 313.107	448.6	0.0002 mg/L	0.00002	0.00002	0.0002 mg/L	0.00002	7.70%	
i 223.061	8.0	0.0037 mg/L	0.00355	0.00355	0.0037 mg/L	0.00355	95.99%	
i 190.171	1.3	0.0015 mg/L	0.00309	0.00309	0.0015 mg/L	0.00309	199.49%	
a 315.887	141.7	0.0627 mg/L	0.00263	0.00263	0.0627 mg/L	0.00263	4.20%	
a 317.933	169.1	0.0630 mg/L	0.00791	0.00791	0.0630 mg/L	0.00791	12.56%	
d 214.440	4.5	0.0001 mg/L	0.00006	0.00006	0.0001 mg/L	0.00006	60.23%	
o 228.616	9.9	0.0004 mg/L	0.00012	0.00012	0.0004 mg/L	0.00012	30.57%	
r 267.716	21.0	0.0005 mg/L	0.00019	0.00019	0.0005 mg/L	0.00019	34.79%	
u 324.752	154.5	0.0005 mg/L	0.00019	0.00019	0.0005 mg/L	0.00019	36.86%	
e 238.204	43.6	0.0011 mg/L	0.00007	0.00007	0.0011 mg/L	0.00007	5.97%	
e 273.955	95.4	0.0057 mg/L	0.00072	0.00072	0.0057 mg/L	0.00072	12.53%	
766.490	692.8	0.2364 mg/L	0.03518	0.03518	0.2364 mg/L	0.03518	14.88%	
g 279.077	18.4	0.0765 mg/L	0.00890	0.00890	0.0765 mg/L	0.00890	11.63%	
n 257.610	166.0	0.0004 mg/L	0.00004	0.00004	0.0004 mg/L	0.00004	9.91%	
o 202.031	5.7	0.0013 mg/L	0.00006	0.00006	0.0013 mg/L	0.00006	4.82%	
QC value less than the lower limit for Mo 202.031 Recovery = 0.13%								
a 589.592	1054.0	0.1596 mg/L	0.01119	0.01119	0.1596 mg/L	0.01119	7.01%	
a 330.237	0.5	0.0593 mg/L	0.33603	0.33603	0.0593 mg/L	0.33603	566.31%	
i 231.604	-1.4	-0.0001 mg/L	0.00017	0.00017	-0.0001 mg/L	0.00017	222.16%	
b 220.353	65.6	0.0033 mg/L	0.00266	0.00266	0.0033 mg/L	0.00266	79.86%	
b 206.836	-3.0	-0.0028 mg/L	0.00500	0.00500	-0.0028 mg/L	0.00500	180.81%	
QC value less than the lower limit for Sb 206.836 Recovery = -0.28%								
a 196.026	-113.9	-0.0145 mg/L	0.00319	0.00319	-0.0145 mg/L	0.00319	21.91%	
n 189.927	0.5	0.0002 mg/L	0.00040	0.00040	0.0002 mg/L	0.00040	250.27%	
r 407.771	138.0	0.0003 mg/L	0.00010	0.00010	0.0003 mg/L	0.00010	29.70%	
r 421.552	99.8	0.0004 mg/L	0.00015	0.00015	0.0004 mg/L	0.00015	35.46%	
i 334.940	-12.3	0.0000 mg/L	0.00015	0.00015	0.0000 mg/L	0.00015	462.02%	
l 190.801	13.2	0.0024 mg/L	0.00378	0.00378	0.0024 mg/L	0.00378	157.80%	
290.880	70.9	0.0005 mg/L	0.00053	0.00053	0.0005 mg/L	0.00053	116.48%	
207.912	-6.7	-0.0027 mg/L	0.00028	0.00028	-0.0027 mg/L	0.00028	10.51%	
371.029	1624.9					80.83	4.97%	
a 206.200	7.5	0.0005 mg/L	0.00000	0.00000	0.0005 mg/L	0.00000	0.86%	
213.617	6.2	0.0045 mg/L	0.00220	0.00220	0.0045 mg/L	0.00220	48.33%	
i 251.611	377.0	0.0096 mg/L	0.00004	0.00004	0.0096 mg/L	0.00004	0.37%	
i 670.784	106.0	0.0016 mg/L	0.00453	0.00453	0.0016 mg/L	0.00453	280.33%	
i 610.362	12.6	0.0018 mg/L	0.14910	0.14910	0.0018 mg/L	0.14910	>999.9%	
181.975	2.3	0.0093 mg/L	0.01115	0.01115	0.0093 mg/L	0.01115	120.42%	

Failed. Continue with analysis.

ALAB: 00166

Sequence No.: 100

Sample ID: ICP_CCV(7-6-12)

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 10/17/2012 4:20:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Mean Data: ICP_CCV(7-6-12)

Analyste	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	67974.1	0.5235 mg/L	0.00980	0.5235 mg/L	0.00980	1.87%
QC value within limits for Ag 328.068 Recovery = 104.70%						
Al 308.215	36456.7	1.063 mg/L	0.0192	1.063 mg/L	0.0192	1.81%
QC value within limits for Al 308.215 Recovery = 106.32%						
As 188.979	5459.5	0.9860 mg/L	0.00106	0.9860 mg/L	0.00106	0.11%
QC value within limits for As 188.979 Recovery = 98.60%						
B 249.677	84777.8	0.9590 mg/L	0.01007	0.9590 mg/L	0.01007	1.05%
QC value within limits for B 249.677 Recovery = 95.90%						
Ba 233.527	114022.1	1.107 mg/L	0.0085	1.107 mg/L	0.0085	0.77%
QC value greater than the upper limit for Ba 233.527 Recovery = 110.69%						
Be 313.107	2279299.3	1.030 mg/L	0.0770	1.030 mg/L	0.0770	7.47%
QC value within limits for Be 313.107 Recovery = 102.98%						
Bi 223.061	2.3	0.0011 mg/L	0.00154	0.0011 mg/L	0.00154	142.57%
Bi 190.171	27.6	0.0340 mg/L	0.00703	0.0340 mg/L	0.00703	20.64%
Bi 315.887	2414.8	1.068 mg/L	0.0159	1.068 mg/L	0.0159	1.49%
Bi 317.933	2861.0	1.065 mg/L	0.0141	1.065 mg/L	0.0141	1.32%
Bd 214.440	46149.8	1.041 mg/L	0.0124	1.041 mg/L	0.0124	1.19%
QC value within limits for Cd 214.440 Recovery = 104.11%						
Co 228.616	27231.2	1.067 mg/L	0.0107	1.067 mg/L	0.0107	1.00%
QC value within limits for Co 228.616 Recovery = 106.65%						
Cr 267.716	42565.7	1.103 mg/L	0.0186	1.103 mg/L	0.0186	1.69%
QC value greater than the upper limit for Cr 267.716 Recovery = 110.27%						
Cu 324.752	309917.1	1.040 mg/L	0.0233	1.040 mg/L	0.0233	2.24%
QC value within limits for Cu 324.752 Recovery = 104.04%						
Fe 238.204	43019.1	1.091 mg/L	0.0156	1.091 mg/L	0.0156	1.43%
QC value within limits for Fe 238.204 Recovery = 109.14%						
Fe 273.955	18024.8	1.083 mg/L	0.0197	1.083 mg/L	0.0197	1.82%
QC value within limits for Fe 273.955 Recovery = 108.26%						
G 766.490	28967.0	9.884 mg/L	0.2544	9.884 mg/L	0.2544	2.57%
G 279.077	267.4	1.111 mg/L	0.0016	1.111 mg/L	0.0016	0.15%
Mn 257.610	443911.1	1.033 mg/L	0.0624	1.033 mg/L	0.0624	6.04%
QC value within limits for Mn 257.610 Recovery = 103.32%						
Mo 202.031	4730.8	1.061 mg/L	0.0096	1.061 mg/L	0.0096	0.90%
QC value within limits for Mo 202.031 Recovery = 106.07%						
Na 589.592	7239.3	1.097 mg/L	0.1308	1.097 mg/L	0.1308	11.93%
Na 330.237	-9.0	-1.176 mg/L	0.5889	-1.176 mg/L	0.5889	50.10%
Ni 231.604	20277.4	1.082 mg/L	0.0156	1.082 mg/L	0.0156	1.44%
QC value within limits for Ni 231.604 Recovery = 108.20%						
Pb 220.353	21211.7	1.079 mg/L	0.0497	1.079 mg/L	0.0497	4.60%
QC value within limits for Pb 220.353 Recovery = 107.88%						
Pb 206.836	1006.5	0.9164 mg/L	0.01515	0.9164 mg/L	0.01515	1.65%
QC value within limits for Sb 206.836 Recovery = 91.64%						
Se 196.026	7938.5	1.013 mg/L	0.0036	1.013 mg/L	0.0036	0.35%
QC value within limits for Se 196.026 Recovery = 101.34%						
Se 189.927	33.2	0.0108 mg/L	0.00095	0.0108 mg/L	0.00095	8.84%
Sr 407.771	420258.3	0.9770 mg/L	0.04208	0.9770 mg/L	0.04208	4.31%
QC value within limits for Sr 407.771 Recovery = 97.70%						
Sr 421.552	237336.8	0.9872 mg/L	0.04013	0.9872 mg/L	0.04013	4.07%
QC value within limits for Sr 421.552 Recovery = 98.72%						
Ti 334.940	386244.1	1.049 mg/L	0.0725	1.049 mg/L	0.0725	6.91%
QC value within limits for Ti 334.940 Recovery = 104.93%						
Tl 190.801	5748.1	1.040 mg/L	0.0138	1.040 mg/L	0.0138	1.33%
QC value within limits for Tl 190.801 Recovery = 103.96%						
V 290.880	164483.8	1.065 mg/L	0.0124	1.065 mg/L	0.0124	1.16%
QC value within limits for V 290.880 Recovery = 106.46%						
V 207.912	96.4	0.0389 mg/L	0.00602	0.0389 mg/L	0.00602	15.48%
V 371.029	1394.9				153.39	11.00%
Zn 206.200	15568.2	1.058 mg/L	0.0027	1.058 mg/L	0.0027	0.26%
QC value within limits for Zn 206.200 Recovery = 105.78%						
Zn 213.617	-1829.7	-1.346 mg/L	0.0746	-1.346 mg/L	0.0746	5.55%
Zn 251.611	45092.8	1.150 mg/L	0.0125	1.150 mg/L	0.0125	1.09%
QC value greater than the upper limit for Si 251.611 Recovery = 114.96%						
Si 670.784	68460.8	1.044 mg/L	0.0414	1.044 mg/L	0.0414	3.95%

ALAB 041003157
0 0597 5 338

Sequence No.: 101
 Sample ID: ICP_CCVGM(7-6-12)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 10/17/2012 4:23:31 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Sample Data: ICP_CCVGM(7-6-12)

Analyte	Mean Corrected		Calib		Sample		Std.Dev.	RSD
	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD		
328.068	76.1	0.0006 mg/L	0.00049	0.0006 mg/L	0.00049	84.04%		
308.215	-6.4	-0.0002 mg/L	0.00365	-0.0002 mg/L	0.00365	>999.9%		
188.979	-6.0	-0.0011 mg/L	0.00348	-0.0011 mg/L	0.00348	320.45%		
249.677	-3842.8	-0.0435 mg/L	0.00111	-0.0435 mg/L	0.00111	2.55%		
233.527	98.8	0.0010 mg/L	0.00008	0.0010 mg/L	0.00008	8.15%		
313.107	664.7	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	14.49%		
223.061	32.9	0.0152 mg/L	0.00396	0.0152 mg/L	0.00396	26.12%		
190.171	12.6	0.0156 mg/L	0.00775	0.0156 mg/L	0.00775	49.85%		
315.887	222112.7	98.25 mg/L	8.467	98.25 mg/L	8.467	8.62%		
QC value within limits for Ca 315.887 Recovery = 98.25%								
317.933	263536.3	98.15 mg/L	8.491	98.15 mg/L	8.491	8.65%		
QC value within limits for Ca 317.933 Recovery = 98.15%								
214.440	-35.7	-0.0008 mg/L	0.00002	-0.0008 mg/L	0.00002	2.35%		
228.616	19.9	0.0008 mg/L	0.00027	0.0008 mg/L	0.00027	35.13%		
267.716	94.8	0.0025 mg/L	0.00031	0.0025 mg/L	0.00031	12.74%		
324.752	1007.1	0.0034 mg/L	0.00021	0.0034 mg/L	0.00021	6.29%		
238.204	188.5	0.0048 mg/L	0.00002	0.0048 mg/L	0.00002	0.48%		
273.955	20.4	0.0012 mg/L	0.00066	0.0012 mg/L	0.00066	54.04%		
766.490	288006.3	98.27 mg/L	7.714	98.27 mg/L	7.714	7.85%		
QC value within limits for K 766.490 Recovery = 98.27%								
279.077	25375.9	105.4 mg/L	1.10	105.4 mg/L	1.10	1.04%		
QC value within limits for Mg 279.077 Recovery = 105.43%								
257.610	1634.6	0.0038 mg/L	0.00010	0.0038 mg/L	0.00010	2.55%		
202.031	35.1	0.0079 mg/L	0.00018	0.0079 mg/L	0.00018	2.28%		
589.592	648320.8	98.20 mg/L	7.532	98.20 mg/L	7.532	7.67%		
QC value within limits for Na 589.592 Recovery = 98.20%								
330.237	816.9	106.2 mg/L	0.83	106.2 mg/L	0.83	0.79%		
QC value within limits for Na 330.237 Recovery = 106.17%								
231.604	6.8	0.0004 mg/L	0.00044	0.0004 mg/L	0.00044	122.31%		
220.353	57.1	0.0029 mg/L	0.00111	0.0029 mg/L	0.00111	38.25%		
206.836	-16.0	-0.0146 mg/L	0.00471	-0.0146 mg/L	0.00471	32.24%		
196.026	-250.1	-0.0319 mg/L	0.00618	-0.0319 mg/L	0.00618	19.35%		
189.927	-87.4	-0.0284 mg/L	0.00073	-0.0284 mg/L	0.00073	2.59%		
407.771	466.7	0.0011 mg/L	0.00005	0.0011 mg/L	0.00005	4.32%		
421.552	226.0	0.0009 mg/L	0.00010	0.0009 mg/L	0.00010	11.06%		
334.940	3656.9	0.0099 mg/L	0.00027	0.0099 mg/L	0.00027	2.70%		
190.801	-73.0	-0.0132 mg/L	0.00076	-0.0132 mg/L	0.00076	5.73%		
290.880	-789.1	-0.0051 mg/L	0.00026	-0.0051 mg/L	0.00026	5.08%		
207.912	33.4	0.0135 mg/L	0.00139	0.0135 mg/L	0.00139	10.29%		
371.029	1457.6				41.92	2.88%		
206.200	3.8	0.0003 mg/L	0.00035	0.0003 mg/L	0.00035	136.23%		
213.617	-5.8	-0.0042 mg/L	0.00074	-0.0042 mg/L	0.00074	17.34%		
251.611	2905.0	0.0741 mg/L	0.00328	0.0741 mg/L	0.00328	4.43%		
670.784	696.5	0.0106 mg/L	0.00347	0.0106 mg/L	0.00347	32.67%		
610.362	-1099.6	-0.1592 mg/L	0.07155	-0.1592 mg/L	0.07155	44.93%		
181.975	9.0	0.0371 mg/L	0.01460	0.0371 mg/L	0.01460	39.31%		

1 analyte(s) passed QC.

ALAB: 00168

Sequence No.: 102
 Sample ID: ICP_CCB(Daily)
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 10/17/2012 4:26:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Raw Data: ICP_CCB(Daily)

Analyte	Mean Corrected	Calib	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
328.068	2314.8	0.0178 mg/L	0.00016	0.0178 mg/L	0.00016	0.90%
308.215	59.0	0.0017 mg/L	0.00004	0.0017 mg/L	0.00004	2.15%
188.979	0.8	0.0001 mg/L	0.01011	0.0001 mg/L	0.01011	>999.9%
249.677	-4588.4	-0.0519 mg/L	0.00015	-0.0519 mg/L	0.00015	0.29%
233.527	38.6	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.70%
313.107	386.7	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	19.94%
223.061	7.2	0.0033 mg/L	0.00305	0.0033 mg/L	0.00305	91.37%
190.171	1.8	0.0022 mg/L	0.00265	0.0022 mg/L	0.00265	119.24%
315.887	153.3	0.0678 mg/L	0.00092	0.0678 mg/L	0.00092	1.35%
317.933	184.5	0.0687 mg/L	0.00668	0.0687 mg/L	0.00668	9.72%
214.440	7.4	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	79.82%
228.616	8.4	0.0003 mg/L	0.00036	0.0003 mg/L	0.00036	109.16%
267.716	21.1	0.0005 mg/L	0.00027	0.0005 mg/L	0.00027	48.78%
324.752	119.6	0.0004 mg/L	0.00028	0.0004 mg/L	0.00028	69.33%
238.204	41.0	0.0010 mg/L	0.00007	0.0010 mg/L	0.00007	6.80%
273.955	85.9	0.0052 mg/L	0.00030	0.0052 mg/L	0.00030	5.76%
766.490	484.8	0.1654 mg/L	0.11464	0.1654 mg/L	0.11464	69.30%
279.077	21.6	0.0897 mg/L	0.00400	0.0897 mg/L	0.00400	4.46%
257.610	185.3	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	8.88%
202.031	7.8	0.0017 mg/L	0.00007	0.0017 mg/L	0.00007	3.74%
QC value less than the lower limit for Mo 202.031			Recovery = 0.17%			
589.592	1055.9	0.1599 mg/L	0.00530	0.1599 mg/L	0.00530	3.31%
330.237	8.0	1.041 mg/L	0.8420	1.041 mg/L	0.8420	80.86%
231.604	5.1	0.0003 mg/L	0.00010	0.0003 mg/L	0.00010	35.21%
220.353	44.4	0.0023 mg/L	0.00002	0.0023 mg/L	0.00002	0.89%
206.836	-3.5	-0.0031 mg/L	0.00161	-0.0031 mg/L	0.00161	51.25%
QC value less than the lower limit for Sb 206.836			Recovery = -0.31%			
196.026	-109.0	-0.0139 mg/L	0.00794	-0.0139 mg/L	0.00794	57.03%
189.927	6.4	0.0021 mg/L	0.00135	0.0021 mg/L	0.00135	64.98%
407.771	189.7	0.0004 mg/L	0.00020	0.0004 mg/L	0.00020	44.39%
421.552	88.4	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	57.88%
334.940	-42.7	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	37.16%
190.801	1.2	0.0002 mg/L	0.00218	0.0002 mg/L	0.00218	>999.9%
290.880	150.2	0.0010 mg/L	0.00002	0.0010 mg/L	0.00002	2.25%
207.912	1.2	0.0005 mg/L	0.00076	0.0005 mg/L	0.00076	159.04%
371.029	1688.7				93.15	5.52%
206.200	8.6	0.0006 mg/L	0.00009	0.0006 mg/L	0.00009	14.74%
213.617	4.7	0.0035 mg/L	0.00141	0.0035 mg/L	0.00141	40.52%
251.611	922.8	0.0235 mg/L	0.00051	0.0235 mg/L	0.00051	2.16%
670.784	-87.0	-0.0013 mg/L	0.00235	-0.0013 mg/L	0.00235	176.84%
610.362	11.2	0.0016 mg/L	0.02129	0.0016 mg/L	0.02129	>999.9%
181.975	6.6	0.0269 mg/L	0.00336	0.0269 mg/L	0.00336	12.48%

Failed. Continue with analysis.

ALAB: 00169

EPA 8260B

Volatile Organic Compounds + Oxygenates

ALAB: 00169 A

CONFIDENTIAL

LMC-PET-00001450

ARCADIS Sample ID	Date	Time	MB Date	MB Time	LCS Date	CS Tim	LCSD Date	CSD Tim	MS Date	MS Tim	MSD Date	MSD Tim	QC Batch #
1 TB101312	10/19/2012	7:37	10/19/2012	6:48	10/19/2012	5:08	10/19/2012	18:17	10/19/2012	14:12	10/19/2012	15:01	QC1130739
2 B-1-CW20	10/19/2012	8:27	10/19/2012	6:48	10/19/2012	5:08	10/19/2012	18:17	10/19/2012	14:12	10/19/2012	15:01	QC1130739
3 C-1-CW06	10/19/2012	13:23	10/19/2012	6:48	10/19/2012	5:08	10/19/2012	18:17	10/19/2012	14:12	10/19/2012	15:01	QC1130739
4 B-5-CW02	10/19/2012	9:16	10/19/2012	6:48	10/19/2012	5:08	10/19/2012	18:17	10/19/2012	14:12	10/19/2012	15:01	QC1130739
5 M-W-6	10/19/2012	10:06	10/19/2012	6:48	10/19/2012	5:08	10/19/2012	18:17	10/19/2012	14:12	10/19/2012	15:01	QC1130739
6 C-1-CW08	10/19/2012	10:55	10/19/2012	6:48	10/19/2012	5:08	10/19/2012	18:17	10/19/2012	14:12	10/19/2012	15:01	QC1130739

312094

ALAB : 00170

524 Volatile Organics

Associated Labs

GCMS # 4

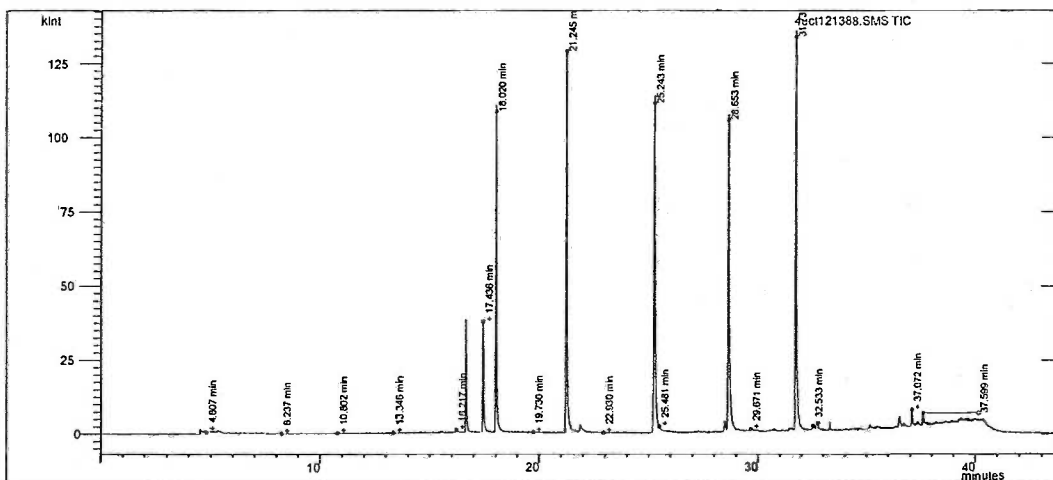
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SMS 2_35C.mth

Sample Name: 312094-001_10mL-1

Acquisition Date: 10/19/2012 7:37:35 AM

Inj. Notes: pH<2

Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.020	96.0+70.0	Fluorobenzene (IS1)	906	183277	25.000
25.243	117.0	Chlorobenzene-d5(IS2)	994	151486	25.000
31.732	152.0	1,4-Dichlorobenzene-d4(IS3)	966	78396	25.000
4.807	85.0	Dichlorodifluoromethane	725		N/A
5.446	50.0+52.0+49.0	Chloromethane	233		N/A
5.812	62.0+64.0	Vinyl Chloride	712		N/A
7.014	94.0+45.0	Bromomethane	620		N/A
7.411	45.0+49.0	Chloroethane	479		N/A
8.237	101.0+103.0	Trichlorofluoromethane	653		N/A
9.497	59.0	Ethyl ether	604		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	493		N/A
11.202	56.0	Acrolein	521		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	516		N/A
10.845	142.0	Iodomethane	902		N/A
10.802	43.0+58.0	Acetone	810	397	1.269
11.515	45.0	Isopropyl alcohol (2-Propanol)	777		N/A
10.957	76.0	Carbon disulfide	611		N/A
13.346	41.0	Acetonitrile	711		N/A
11.623	41.0+39.0	Allyl chloride	728		N/A
12.142	84.0+49.0+86.0	Methylene Chloride	845	691	0.115
12.615	59.0	tert-Butanol	619		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	777		N/A
12.818	61.0+96.0	t-1,2-Dichloroethene	843	69	0.011

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4oct121388.SMS

ALAB: 00171

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LMC-PET-00001452

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	308		N/A
13.360	41.0	n-Hexane	664		N/A
14.068	63.0	1,1-Dichloroethane	558		N/A
14.298	43.0	Vinyl acetate	470		N/A
14.055	45.0	Isopropyl ether	546		N/A
14.201	53.0	Chloroprene	632		N/A
14.968	59.0	Ethyl-tert-butyl-ether	463		N/A
15.440	77.0+41.0	2,2-Dichloropropane	686		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	786		N/A
15.719	43.0+72.0	2-Butanone (MEK)	588		N/A
15.948	54.0	Propionitrile	277		N/A
16.139	130.0+49.0	Bromochloromethane	698	25	0.007
17.528	39.0	Methacrylonitrile	418		N/A
16.309	83.0+85.0	Chloroform	551	51	0.007
16.584	97.0+99.0	1,1,1-Trichloroethane	333		N/A
16.662	111.0	Dibromofluoromethane (Surr1)	988	39692	26.290
16.861	117.0+119.0	Carbon Tetrachloride	707		N/A
16.217	42.0+72.0	Tetrahydrofuran	756	756	2.487
16.949	75.0+39.0	1,1-Dichloropropene	728		N/A
17.378	78.0	Benzene	497		N/A
17.436	65.0	1,2-Dichloroethane-d4 (Surr2)	983	57946	28.250
17.581	62.0+64.0	1,2-Dichloroethane	241		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	550		N/A
18.738	130.0+132.0+95.0	Trichloroethene	723		N/A
19.397	41.0	Methyl methacrylate	612		N/A
19.273	63.0+65.0	1,2-Dichloropropane	625		N/A
19.543	93.0+174.0	Dibromomethane	543		N/A
20.281	88.0	1,4-Dioxane	425		N/A
19.730	83.0+85.0	Bromodichloromethane	443	19	0.003
20.393	63.0+43.0	2-Chloroethyl vinyl ether	535		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	510		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	406		N/A
21.245	98.0	Toluene-d8 (Surr3)	997	207040	25.540
21.369	92.0+91.0	Toluene	276		N/A
22.013	69.0	Ethyl methacrylate	592		N/A
22.930	43.0+58.0+100.0	2-Hexanone	537	36	0.032
22.043	75.0+77.0	t-1,3-Dichloropropene	267		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	573		N/A
22.669	164.0+166.0	Tetrachloroethene	547		N/A
22.981	76.0+41.0	1,3-Dichloropropane	748		N/A
17.440	41.0	Isobutyl alcohol	370		N/A
23.543	129.0+127.0	Dibromochloromethane	504		N/A
23.948	107.0+109.0	1,2-Dibromoethane	582		N/A
25.749	91.0	1-Chlorohexane	731		N/A
25.315	112.0+114.0	Chlorobenzene	286		N/A
25.481	106.0+91.0	Ethylbenzene	750		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	442		N/A
25.823	106.0+91.0	p,m-Xylenes	868		N/A
27.024	106.0+91.0	o-Xylene	760		N/A
27.287	104.0+78.0	Styrene	843	508	0.042
27.764	171.0+173.0+175.0	Bromoform	585		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.076	105.0+120.0	Isopropylbenzene	920	245	0.011
28.418	75.0	cis-1,4-Dichloro-2-butene	708		N/A
28.653	95.0	p-Bromofluorobenzene (Surr4)	998	103335	26.557
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	567		N/A
29.044	77.0+158.0	Bromobenzene	884		N/A
29.148	91.0+120.0	n-Propylbenzene	853		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	700		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	717		N/A
29.517	91.0+126.0	2-Chlorotoluene	853		N/A
29.671	105.0+120.0	1,3,5-Trimethylbenzene	861	1530	0.065
29.521	91.0+126.0	4-Chlorotoluene	798		N/A
30.485	119.0+91.0	tert-Butylbenzene	758		N/A
30.727	105.0+120.0	1,2,4-Trimethylbenzene	935	1199	0.053
31.431	117.0	Pentachloroethane	521		N/A
31.127	105.0+134.0	sec-Butylbenzene	945	604	0.026
30.483	119.0	4-Isopropyltoluene	750		N/A
31.519	146.0+148.0	1,3-Dichlorobenzene	953		N/A
31.579	146.0+148.0	1,4-Dichlorobenzene	950	770	0.063
32.112	91.0	Benzyl Chloride	579		N/A
32.533	91.0+134.0	n-Butylbenzene	979	1820	0.100
32.778	146.0+148.0	1,2-Dichlorobenzene	884	588	0.051
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	727		N/A
37.597	180.0+182.0	1,2,4-Trichlorobenzene	991	5981	0.770
36.683	225.0+226.0	Hexachlorobutadiene	953		N/A
37.072	128.0	Naphthalene	996	7600	1.319
37.599	180.0+182.0	1,2,3-Trichlorobenzene	990	5058	0.671

524 Volatile Organics

Associated Labs

GCMS # 4

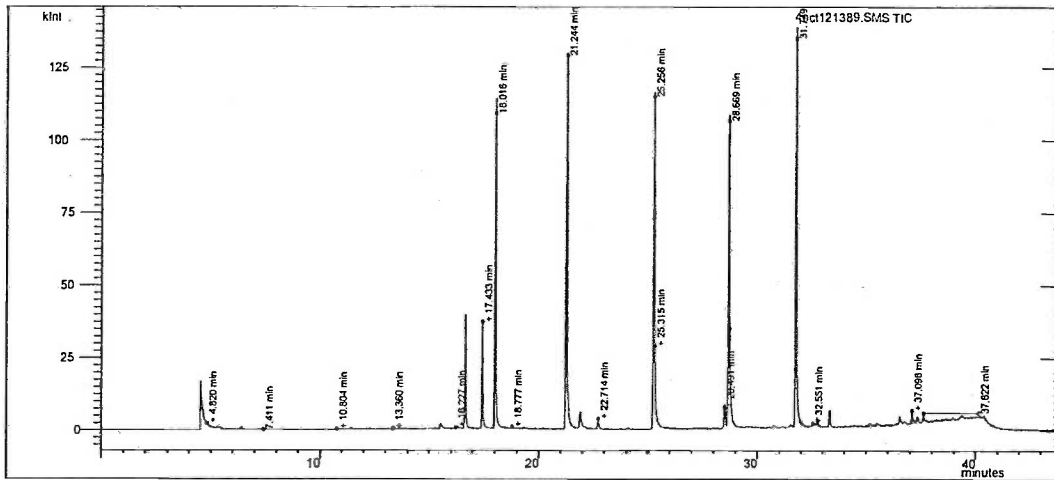
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SMS 2_35C.mth

Sample Name: 312094-002_10mL-8

Acquisition Date: 10/19/2012 8:27:04 AM

Inj. Notes: pH<2

Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.016	96.0+70.0	Fluorobenzene (IS1)	902	193306	25.000
25.256	117.0	Chlorobenzene-d5(IS2)	995	152471	25.000
31.749	152.0	1,4-Dichlorobenzene-d4(IS3)	961	75717	25.000
4.820	85.0	Dichlorodifluoromethane	672	562	0.169
5.446	50.0+52.0+49.0	Chloromethane	235		N/A
5.812	62.0+64.0	Vinyl Chloride	794		N/A
7.014	94.0+45.0	Bromomethane	672		N/A
7.411	45.0+49.0	Chloroethane	573		N/A
8.269	101.0+103.0	Trichlorofluoromethane	868	113	0.015
9.497	59.0	Ethyl ether	689		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	487		N/A
11.202	56.0	Acrolein	586		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	426		N/A
10.845	142.0	Iodomethane	775		N/A
10.804	43.0+58.0	Acetone	881	519	1.573
11.515	45.0	Isopropyl alcohol (2-Propanol)	818		N/A
10.957	76.0	Carbon disulfide	649		N/A
13.346	41.0	Acetonitrile	808		N/A
11.623	41.0+39.0	Allyl chloride	533		N/A
12.138	84.0+49.0+86.0	Methylene Chloride	845	510	0.081
12.615	59.0	tert-Butanol	716		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	714		N/A
12.810	61.0+96.0	t-1,2-Dichloroethene	746	88	0.013

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4oct121389.SMS

ALAB: 000174

CONFIDENTIAL

LMC-PET-00001455

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	361		N/A
13.360	41.0	n-Hexane	520		N/A
14.085	63.0	1,1-Dichloroethane	812	95	0.022
14.298	43.0	Vinyl acetate	466		N/A
14.055	45.0	Isopropyl ether	654		N/A
14.201	53.0	Chloroprene	382		N/A
14.968	59.0	Ethyl-tert-butyl-ether	433		N/A
15.440	77.0+41.0	2,2-Dichloropropane	581		N/A
15.586	61.0+96.0	c-1,2-Dichloroethene	738	388	0.060
15.530	43.0+72.0	2-Butanone (MEK)	702	204	0.377
15.948	54.0	Propionitrile	358		N/A
16.134	130.0+49.0	Bromochloromethane	736	58	0.015
17.528	39.0	Methacrylonitrile	614		N/A
16.298	83.0+85.0	Chloroform	985	1697	0.207
16.584	97.0+99.0	1,1,1-Trichloroethane	762		N/A
16.659	111.0	Dibromofluoromethane (Surr1)	987	39970	25.101
16.861	117.0+119.0	Carbon Tetrachloride	500		N/A
16.227	42.0+72.0	Tetrahydrofuran	728	347	1.083
16.949	75.0+39.0	1,1-Dichloropropene	590		N/A
17.378	78.0	Benzene	623		N/A
17.433	65.0	1,2-Dichloroethane-d4 (Surr2)	986	57763	26.700
17.495	62.0+64.0	1,2-Dichloroethane	381	162	0.038
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	476		N/A
18.777	130.0+132.0+95.0	Trichloroethene	948	974	0.125
19.397	41.0	Methyl methacrylate	881		N/A
19.314	63.0+65.0	1,2-Dichloropropane	955	225	0.112
19.543	93.0+174.0	Dibromomethane	542		N/A
20.281	88.0	1,4-Dioxane	388		N/A
19.846	83.0+85.0	Bromodichloromethane	854	231	0.041
20.323	63.0+43.0	2-Chloroethyl vinyl ether	620	14	0.056
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	630		N/A
21.106	43.0+58.0	4-Methyl-2-pentanone	408	54	0.034
21.244	98.0	Toluene-d8 (Surr3)	997	210531	25.803
21.369	92.0+91.0	Toluene	279		N/A
22.013	69.0	Ethyl methacrylate	334		N/A
23.027	43.0+58.0+100.0	2-Hexanone	601		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	153		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	476		N/A
22.714	164.0+166.0	Tetrachloroethene	993	896	1.035
22.981	76.0+41.0	1,3-Dichloropropane	676		N/A
17.440	41.0	Isobutyl alcohol	540		N/A
23.543	129.0+127.0	Dibromochloromethane	672		N/A
23.979	107.0+109.0	1,2-Dibromoethane	672	11	0.003
25.749	91.0	1-Chlorohexane	650		N/A
25.315	112.0+114.0	Chlorobenzene	279		N/A
25.481	106.0+91.0	Ethylbenzene	582		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	353		N/A
25.823	106.0+91.0	p,m-Xylenes	784		N/A
27.024	106.0+91.0	o-Xylene	802		N/A
27.316	104.0+78.0	Styrene	708	56	0.005
27.764	171.0+173.0+175.0	Bromoform	565		N/A

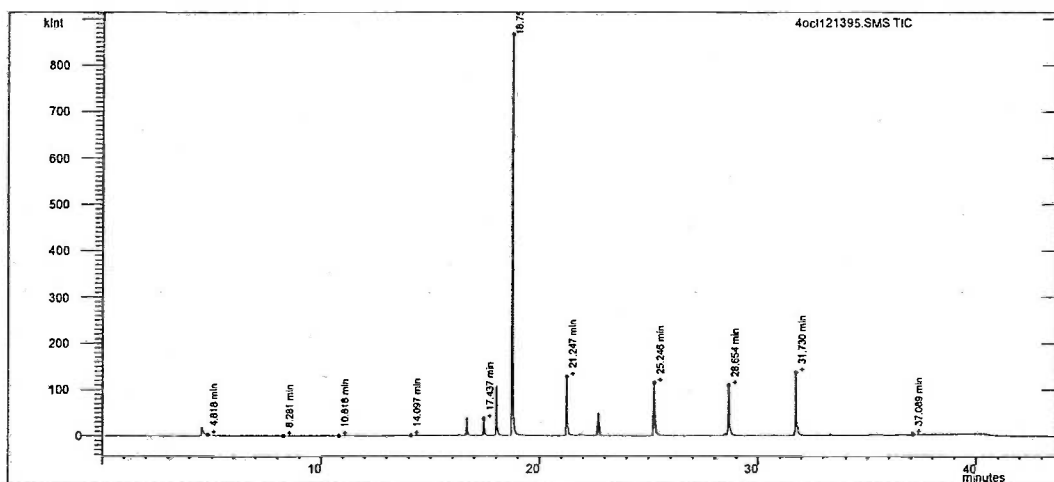
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	824		N/A
28.491	75.0	cis-1,4-Dichloro-2-butene	690	270	~~0.817~~
28.669	95.0	p-Bromofluorobenzene (Surr4)	999	103341	<u>27.498</u>
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	567		N/A
29.044	77.0+158.0	Bromobenzene	906		N/A
29.148	91.0+120.0	n-Propylbenzene	909		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	642		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	692		N/A
29.517	91.0+126.0	2-Chlorotoluene	816		N/A
29.750	105.0+120.0	1,3,5-Trimethylbenzene	882	1759	0.077
29.521	91.0+126.0	4-Chlorotoluene	811		N/A
30.485	119.0+91.0	tert-Butylbenzene	712		N/A
30.741	105.0+120.0	1,2,4-Trimethylbenzene	967	1091	0.050
31.431	117.0	Pentachloroethane	457		N/A
31.124	105.0+134.0	sec-Butylbenzene	900	988	0.044
30.483	119.0	4-Isopropyltoluene	716		N/A
31.602	146.0+148.0	1,3-Dichlorobenzene	920	537	0.046
31.605	146.0+148.0	1,4-Dichlorobenzene	950	364	0.031
32.112	91.0	Benzyl Chloride	622		N/A
32.551	91.0+134.0	n-Butylbenzene	971	1721	0.098
32.786	146.0+148.0	1,2-Dichlorobenzene	884	972	0.088
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	792		N/A
37.620	180.0+182.0	1,2,4-Trichlorobenzene	985	4677	~~0.624~~
36.683	225.0+226.0	Hexachlorobutadiene	969		N/A
37.098	128.0	Naphthalene	995	5245	~~0.943~~
37.622	180.0+182.0	1,2,3-Trichlorobenzene	989	3284	0.451

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121395.S MS Calc Method: C:\VarianWS\methods\ms4_524_10181_2_35C.mth
 Sample Name: 312094-003_10mL-8 Acquisition Date: 10/19/2012 1:23:25 PM
 Inj. Notes: pH<2 Operator Name: NZ



RT	Quan	Ions	Compound Name	R.Match	Area	Amount
18.022	96.0+70.0		Fluorobenzene (IS1)	910	179841	25.000
25.246	117.0		Chlorobenzene-d5(IS2)	995	153254	25.000
31.730	152.0		1,4-Dichlorobenzene-d4(IS3)	951	73964	25.000
4.818	85.0		Dichlorodifluoromethane	661	593	0.192
5.478	50.0+52.0+49.0		Chloromethane	354	97	0.036
5.812	62.0+64.0		Vinyl Chloride	757		N/A
7.014	94.0+45.0		Bromomethane	746		N/A
7.411	45.0+49.0		Chloroethane	521		N/A
8.281	101.0+103.0		Trichlorofluoromethane	886	75	0.011
9.497	59.0		Ethyl ether	480		N/A
10.209	101.0+151.0		Trichlorotrifluoroethane (Freon 113)	729		N/A
11.202	56.0		Acrolein	403		N/A
10.312	96.0+61.0+98.0		1,1-Dichloroethene	851	3438	0.658
10.867	142.0		Iodomethane	775	17	0.004
10.818	43.0+58.0		Acetone	856	384	1.249
11.515	45.0		Isopropyl alcohol (2-Propanol)	828		N/A
10.957	76.0		Carbon disulfide	587		N/A
13.346	41.0		Acetonitrile	942		N/A
11.623	41.0+39.0		Allyl chloride	756		N/A
12.136	84.0+49.0+86.0		Methylene Chloride	892	1691	0.287
12.615	59.0		tert-Butanol	765		N/A
12.807	73.0		Methyl-tert-butyl-ether (MTBE)	699	62	0.019
12.826	61.0+96.0		t-1,2-Dichloroethene	691	88	0.014

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4oct121395.SMS

ALAB: 00177

CONFIDENTIAL

LMC-PET-00001458

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	278		N/A
13.360	41.0	n-Hexane	497		N/A
14.097	63.0	1,1-Dichloroethane	800	645	0.158
14.298	43.0	Vinyl acetate	435		N/A
14.055	45.0	Isopropyl ether	515		N/A
14.201	53.0	Chloroprene	508		N/A
14.968	59.0	Ethyl-tert-butyl-ether	285		N/A
15.440	77.0+41.0	2,2-Dichloropropane	722		N/A
15.584	61.0+96.0	c-1,2-Dichloroethene	979	1686	0.282
15.719	43.0+72.0	2-Butanone (MEK)	806		N/A
15.948	54.0	Propionitrile	400		N/A
16.301	130.0+49.0	Bromochloromethane	364	262	0.074
17.528	39.0	Methacrylonitrile	531		N/A
16.301	83.0+85.0	Chloroform	990	4166	0.547
16.612	97.0+99.0	1,1,1-Trichloroethane	856	298	0.032
16.666	111.0	Dibromofluoromethane (Surr1)	994	38000	25.651
16.889	117.0+119.0	Carbon Tetrachloride	989	1875	0.247
16.281	42.0+72.0	Tetrahydrofuran	723	169	0.566
16.949	75.0+39.0	1,1-Dichloropropene	632		N/A
17.421	78.0	Benzene	514	280	0.046
17.437	65.0	1,2-Dichloroethane-d4 (Surr2)	983	56820	28.230
17.485	62.0+64.0	1,2-Dichloroethane	311	259	0.066
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	552		N/A
18.752	130.0+132.0+95.0	Trichloroethene	996	1.405E6	179.188 T.14
19.397	41.0	Methyl methacrylate	563		N/A
19.318	63.0+65.0	1,2-Dichloropropane	745	73	0.036
19.543	93.0+174.0	Dibromomethane	468		N/A
20.281	88.0	1,4-Dioxane	360		N/A
19.849	83.0+85.0	Bromodichloromethane	846	235	0.041
20.393	63.0+43.0	2-Chloroethyl vinyl ether	529		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	566		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	513		N/A
21.247	98.0	Toluene-d8 (Surr3)	996	210224	25.633
21.369	92.0+91.0	Toluene	298		N/A
22.013	69.0	Ethyl methacrylate	349		N/A
23.027	43.0+58.0+100.0	2-Hexanone	318		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	260		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	460		N/A
22.700	164.0+166.0	Tetrachloroethene	997	10235	11.761
22.981	76.0+41.0	1,3-Dichloropropane	640		N/A
17.440	41.0	Isobutyl alcohol	689		N/A
23.543	129.0+127.0	Dibromochloromethane	700		N/A
23.948	107.0+109.0	1,2-Dibromoethane	469		N/A
25.749	91.0	1-Chlorohexane	646		N/A
25.346	112.0+114.0	Chlorobenzene	309	494	0.040
25.481	106.0+91.0	Ethylbenzene	567		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	468		N/A
25.915	106.0+91.0	p,m-Xylenes	982	2284	0.122
27.096	106.0+91.0	o-Xylene	942	1154	0.061
27.106	104.0+78.0	Styrene	491		N/A
27.830	171.0+173.0+175.0	Bromoform	790	30	0.016

ALAB: 00178

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	858		N/A
28.490	75.0	cis-1,4-Dichloro-2-butene	556	203	0.630
28.654	95.0	p-Bromofluorobenzene (Surr4)	999	100040	27.251
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	525		N/A
29.044	77.0+158.0	Bromobenzene	816		N/A
29.148	91.0+120.0	n-Propylbenzene	873		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	604		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	658		N/A
29.517	91.0+126.0	2-Chlorotoluene	809		N/A
29.696	105.0+120.0	1,3,5-Trimethylbenzene	955	522	0.023
29.521	91.0+126.0	4-Chlorotoluene	787		N/A
30.485	119.0+91.0	tert-Butylbenzene	784		N/A
30.724	105.0+120.0	1,2,4-Trimethylbenzene	964	1600	0.075
31.431	117.0	Pentachloroethane	546		N/A
31.105	105.0+134.0	sec-Butylbenzene	895	476	0.022
30.483	119.0	4-Isopropyltoluene	707		N/A
31.573	146.0+148.0	1,3-Dichlorobenzene	902	616	0.054
31.577	146.0+148.0	1,4-Dichlorobenzene	913	484	0.042
32.112	91.0	Benzyl Chloride	523		N/A
32.541	91.0+134.0	n-Butylbenzene	924	847	0.049
32.755	146.0+148.0	1,2-Dichlorobenzene	806	734	0.068
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	600		N/A
37.606	180.0+182.0	1,2,4-Trichlorobenzene	970	2325	0.317
36.683	225.0+226.0	Hexachlorobutadiene	857		N/A
37.089	128.0	Naphthalene	992	2102	0.387
37.605	180.0+182.0	1,2,3-Trichlorobenzene	968	1524	0.214

ALAB : 00179

524 Volatile Organics

Associated Labs

GCMS # 4

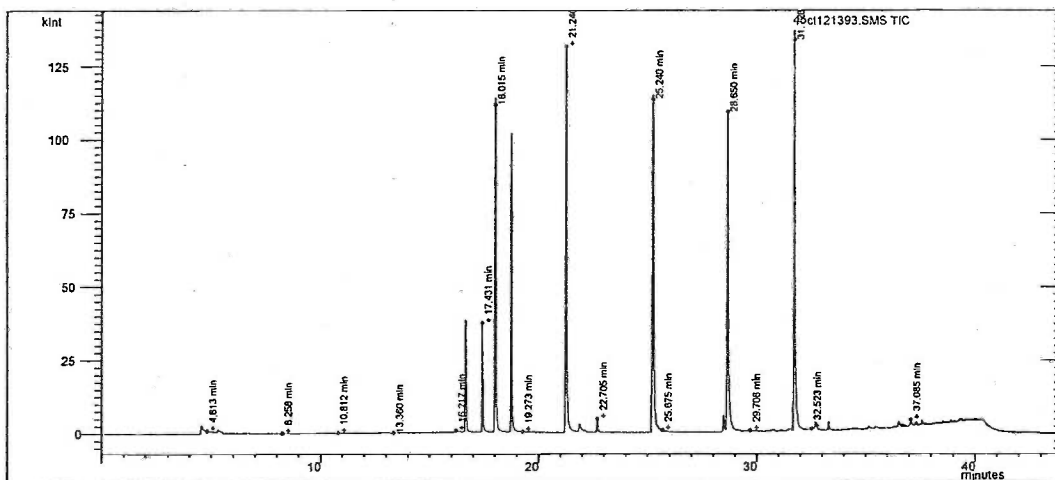
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Sample Name: 312094-003_1mL-8

Acquisition Date: 10/19/2012 11:45:00 AM

Inj. Notes: 1:10 pH<2

Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.015	96.0+70.0	Fluorobenzene (IS1)	914	184332	25.000
25.240	117.0	Chlorobenzene-d5(IS2)	993	149565	25.000
31.728	152.0	1,4-Dichlorobenzene-d4(IS3)	946	75961	25.000
4.813	85.0	Dichlorodifluoromethane	659	31	0.010
5.446	50.0+52.0+49.0	Chloromethane	526		N/A
5.812	62.0+64.0	Vinyl Chloride	796		N/A
7.014	94.0+45.0	Bromomethane	544		N/A
7.411	45.0+49.0	Chloroethane	598		N/A
8.258	101.0+103.0	Trichlorofluoromethane	775	45	0.006
9.497	59.0	Ethyl ether	650		N/A
10.201	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	583	55	0.013
11.202	56.0	Acrolein	464		N/A
10.310	96.0+61.0+98.0	1,1-Dichloroethene	751	366	0.068
10.845	142.0	Iodomethane	775		N/A
10.812	43.0+58.0	Acetone	869	412	~~1.309~~
11.515	45.0	Isopropyl alcohol (2-Propanol)	742		N/A
10.957	76.0	Carbon disulfide	485		N/A
13.346	41.0	Acetonitrile	692		N/A
11.623	41.0+39.0	Allyl chloride	776		N/A
12.133	84.0+49.0+86.0	Methylene Chloride	878	457	0.076
12.615	59.0	tert-Butanol	435		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	558		N/A
12.801	61.0+96.0	t-1,2-Dichloroethene	490		N/A

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4oct121393.SMS

ALAB: 00160

CONFIDENTIAL

LMC-PET-00001461

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	244		N/A
13.360	41.0	n-Hexane	623		N/A
14.078	63.0	1,1-Dichloroethane	698	101	0.024
14.298	43.0	Vinyl acetate	383		N/A
14.055	45.0	Isopropyl ether	483		N/A
14.201	53.0	Chloroprene	523		N/A
14.968	59.0	Ethyl-tert-butyl-ether	444		N/A
15.440	77.0+41.0	2,2-Dichloropropane	736		N/A
15.580	61.0+96.0	c-1,2-Dichloroethene	849	195	0.032
15.719	43.0+72.0	2-Butanone (MEK)	479		N/A
15.948	54.0	Propionitrile	350		N/A
16.123	130.0+49.0	Bromochloromethane	566		N/A
17.528	39.0	Methacrylonitrile	565		N/A
16.295	83.0+85.0	Chloroform	920	467	0.060
16.584	97.0+99.0	1,1,1-Trichloroethane	546		N/A
16.656	111.0	Dibromofluoromethane (Surr1)	984	39294	25.878
16.861	117.0+119.0	Carbon Tetrachloride	878		N/A
16.217	42.0+72.0	Tetrahydrofuran	760	596	1.949
16.949	75.0+39.0	1,1-Dichloropropene	756		N/A
17.378	78.0	Benzene	237		N/A
17.431	65.0	1,2-Dichloroethane-d4 (Surr2)	986	56110	27.198
17.581	62.0+64.0	1,2-Dichloroethane	294		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	365		N/A
18.752	130.0+132.0+95.0	Trichloroethene	996	144348	18.870 188.7
19.397	41.0	Methyl methacrylate	624		N/A
19.273	63.0+65.0	1,2-Dichloropropane	689		N/A
19.543	93.0+174.0	Dibromomethane	640		N/A
20.281	88.0	1,4-Dioxane	432		N/A
19.821	83.0+85.0	Bromodichloromethane	670		N/A
20.499	63.0+43.0	2-Chloroethyl vinyl ether	723	64	0.253
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	504		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	339		N/A
21.240	98.0	Toluene-d8 (Surr3)	998	205279	25.648
21.411	92.0+91.0	Toluene	309	207	0.011
22.013	69.0	Ethyl methacrylate	411		N/A
23.027	43.0+58.0+100.0	2-Hexanone	502		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	202		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	528		N/A
22.705	164.0+166.0	Tetrachloroethene	994	1127	1.327
22.981	76.0+41.0	1,3-Dichloropropane	695		N/A
17.440	41.0	Isobutyl alcohol	706		N/A
23.543	129.0+127.0	Dibromochloromethane	549		N/A
23.948	107.0+109.0	1,2-Dibromoethane	527		N/A
25.749	91.0	1-Chlorohexane	705		N/A
25.315	112.0+114.0	Chlorobenzene	269		N/A
25.481	106.0+91.0	Ethylbenzene	715		N/A
25.675	131.0+117.0	1,1,1,2-Tetrachloroethane	488	63	0.016
25.823	106.0+91.0	p,m-Xylenes	728		N/A
27.024	106.0+91.0	o-Xylene	766		N/A
27.106	104.0+78.0	Styrene	631		N/A
27.764	171.0+173.0+175.0	Bromoform	539		N/A

ALAB: 00181

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	782		N/A
28.418	75.0	cis-1,4-Dichloro-2-butene	720		N/A
28.650	95.0	p-Bromofluorobenzene (Surr4)	998	101513	26.925
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	591		N/A
29.079	77.0+158.0	Bromobenzene	933	91	0.010
29.148	91.0+120.0	n-Propylbenzene	871		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	575		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	656		N/A
29.517	91.0+126.0	2-Chlorotoluene	819		N/A
29.708	105.0+120.0	1,3,5-Trimethylbenzene	849	1277	0.056
29.521	91.0+126.0	4-Chlorotoluene	846		N/A
30.485	119.0+91.0	tert-Butylbenzene	795		N/A
30.724	105.0+120.0	1,2,4-Trimethylbenzene	891	725	0.033
31.431	117.0	Pentachloroethane	483		N/A
31.106	105.0+134.0	sec-Butylbenzene	878	523	0.023
30.483	119.0	4-Isopropyltoluene	771		N/A
31.580	146.0+148.0	1,3-Dichlorobenzene	938	481	0.041
31.581	146.0+148.0	1,4-Dichlorobenzene	953	668	0.057
32.112	91.0	Benzyl Chloride	407		N/A
32.523	91.0+134.0	n-Butylbenzene	947	1183	0.067
32.810	146.0+148.0	1,2-Dichlorobenzene	892	122	0.011
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	630		N/A
37.606	180.0+182.0	1,2,4-Trichlorobenzene	971	2442	0.325
36.683	225.0+226.0	Hexachlorobutadiene	922		N/A
37.085	128.0	Naphthalene	994	2381	0.426
37.607	180.0+182.0	1,2,3-Trichlorobenzene	993	2143	0.294

ALAB000181A

524 Volatile Organics

Associated Labs

GCMS # 4

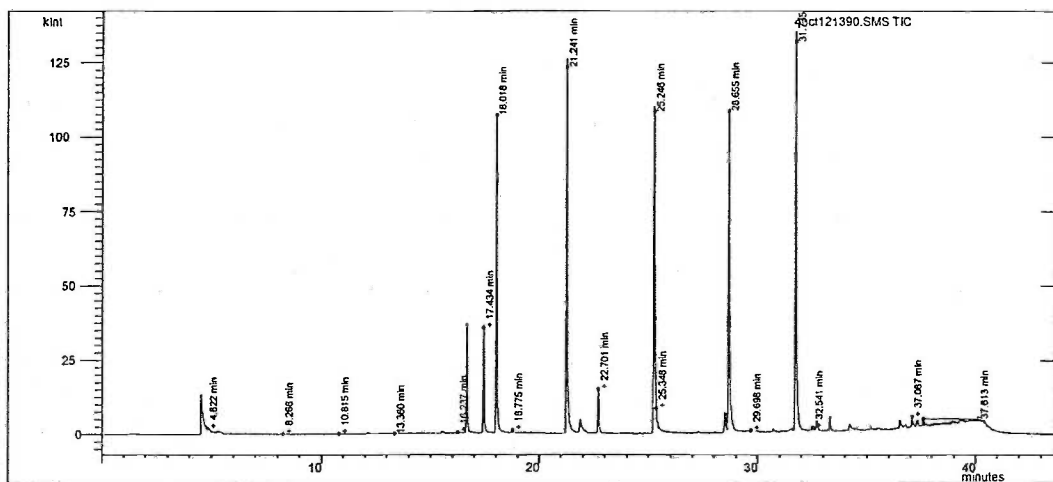
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SMS 2_35C.mth

Sample Name: 312094-004_10mL-5

Acquisition Date: 10/19/2012 9:16:37 AM

Inj. Notes: pH<2

Operator Name: NZ



RT	Quan	Ions	Compound Name	R.Match	Area	Amount
18.018	96.0+70.0		Fluorobenzene (IS1)	892	176809	25.000
25.246	117.0		Chlorobenzene-d5(IS2)	986	147326	25.000
31.735	152.0		1,4-Dichlorobenzene-d4(IS3)	964	74467	25.000
4.822	85.0		Dichlorodifluoromethane	692	493	0.162
5.446	50.0+52.0+49.0		Chloromethane	661		N/A
5.812	62.0+64.0		Vinyl Chloride	683		N/A
7.014	94.0+45.0		Bromomethane	554		N/A
7.411	45.0+49.0		Chloroethane	474		N/A
8.266	101.0+103.0		Trichlorofluoromethane	879	69	0.010
9.497	59.0		Ethyl ether	654		N/A
10.228	101.0+151.0		Trichlorotrifluoroethane (Freon 113)	753	160	0.040
11.202	56.0		Acrolein	587		N/A
10.314	96.0+61.0+98.0		1,1-Dichloroethene	868	874	0.170
10.845	142.0		Iodomethane	775		N/A
10.815	43.0+58.0		Acetone	810	367	1.217
11.515	45.0		Isopropyl alcohol (2-Propanol)	774		N/A
10.957	76.0		Carbon disulfide	698		N/A
13.346	41.0		Acetonitrile	886		N/A
11.623	41.0+39.0		Allyl chloride	666		N/A
12.150	84.0+49.0+86.0		Methylene Chloride	900	1284	0.222
12.615	59.0		tert-Butanol	602		N/A
12.830	73.0		Methyl-tert-butyl-ether (MTBE)	848	102	0.031
12.829	61.0+96.0		t-1,2-Dichloroethene	756	67	0.011

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4oct121390.SMS

ALAB: 00181B

CONFIDENTIAL

LMC-PET-00001464

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	404		N/A
13.360	41.0	n-Hexane	700		N/A
14.094	63.0	1,1-Dichloroethane	748	367	0.091
14.298	43.0	Vinyl acetate	469		N/A
14.055	45.0	Isopropyl ether	426		N/A
14.201	53.0	Chloroprene	767		N/A
14.968	59.0	Ethyl-tert-butyl-ether	424		N/A
15.440	77.0+41.0	2,2-Dichloropropane	579		N/A
15.578	61.0+96.0	c-1,2-Dichloroethene	833	459	0.078
15.719	43.0+72.0	2-Butanone (MEK)	553		N/A
15.948	54.0	Propionitrile	270		N/A
16.298	130.0+49.0	Bromochloromethane	317	60	0.017
17.528	39.0	Methacrylonitrile	561		N/A
16.295	83.0+85.0	Chloroform	970	858	0.115
16.584	97.0+99.0	1,1,1-Trichloroethane	701		N/A
16.660	111.0	Dibromofluoromethane (Surr1)	986	38018	26.103
16.891	117.0+119.0	Carbon Tetrachloride	956	711	0.095
16.237	42.0+72.0	Tetrahydrofuran	719	196	0.669
16.949	75.0+39.0	1,1-Dichloropropene	672		N/A
17.378	78.0	Benzene	614		N/A
17.434	65.0	1,2-Dichloroethane-d4 (Surr2)	988	57110	28.861
17.581	62.0+64.0	1,2-Dichloroethane	299		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	606		N/A
18.775	130.0+132.0+95.0	Trichloroethene	971	1343	0.178
19.397	41.0	Methyl methacrylate	757		N/A
19.273	63.0+65.0	1,2-Dichloropropane	886		N/A
19.543	93.0+174.0	Dibromomethane	596		N/A
20.281	88.0	1,4-Dioxane	617		N/A
19.849	83.0+85.0	Bromodichloromethane	848	112	0.021
20.393	63.0+43.0	2-Chloroethyl vinyl ether	498		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	588		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	372		N/A
21.241	98.0	Toluene-d8 (Surr3)	996	199268	25.275
21.412	92.0+91.0	Toluene	356	682	0.037
22.013	69.0	Ethyl methacrylate	516		N/A
23.027	43.0+58.0+100.0	2-Hexanone	591		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	251		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	595		N/A
22.701	164.0+166.0	Tetrachloroethene	996	3140	3.754
22.981	76.0+41.0	1,3-Dichloropropane	730		N/A
17.440	41.0	Isobutyl alcohol	526		N/A
23.543	129.0+127.0	Dibromochloromethane	695		N/A
23.948	107.0+109.0	1,2-Dibromoethane	602		N/A
25.749	91.0	1-Chlorohexane	633		N/A
25.348	112.0+114.0	Chlorobenzene	311	259	0.022
25.481	106.0+91.0	Ethylbenzene	825		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	450		N/A
25.823	106.0+91.0	p,m-Xylenes	822		N/A
27.024	106.0+91.0	o-Xylene	844		N/A
27.277	104.0+78.0	Styrene	785	223	0.019
27.764	171.0+173.0+175.0	Bromoform	598		N/A

ALAB : 00182

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	826		N/A
28.418	75.0	cis-1,4-Dichloro-2-butene	526		N/A
28.655	95.0	p-Bromofluorobenzene (Surr4)	998	100612	27.221
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	490		N/A
29.044	77.0+158.0	Bromobenzene	850		N/A
29.236	91.0+120.0	n-Propylbenzene	887	481	0.020
29.229	75.0	trans-1,4-Dichloro-2-butene	548		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	626		N/A
29.517	91.0+126.0	2-Chlorotoluene	805		N/A
29.698	105.0+120.0	1,3,5-Trimethylbenzene	886	1111	0.050
29.521	91.0+126.0	4-Chlorotoluene	808		N/A
30.485	119.0+91.0	tert-Butylbenzene	817		N/A
30.722	105.0+120.0	1,2,4-Trimethylbenzene	923	1406	0.066
31.431	117.0	Pentachloroethane	436		N/A
31.102	105.0+134.0	sec-Butylbenzene	921	870	0.039
30.483	119.0	4-Isopropyltoluene	811		N/A
31.519	146.0+148.0	1,3-Dichlorobenzene	947		N/A
31.583	146.0+148.0	1,4-Dichlorobenzene	952	596	0.052
32.112	91.0	Benzyl Chloride	530		N/A
32.541	91.0+134.0	n-Butylbenzene	945	1695	0.098
32.758	146.0+148.0	1,2-Dichlorobenzene	905	300	0.028
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	688		N/A
37.609	180.0+182.0	1,2,4-Trichlorobenzene	977	3104	0.421
36.683	225.0+226.0	Hexachlorobutadiene	931		N/A
37.087	128.0	Naphthalene	993	4495	0.821
37.613	180.0+182.0	1,2,3-Trichlorobenzene	980	3043	0.425

ALAB: 00182A

524 Volatile Organics

Associated Labs

GCMS # 4

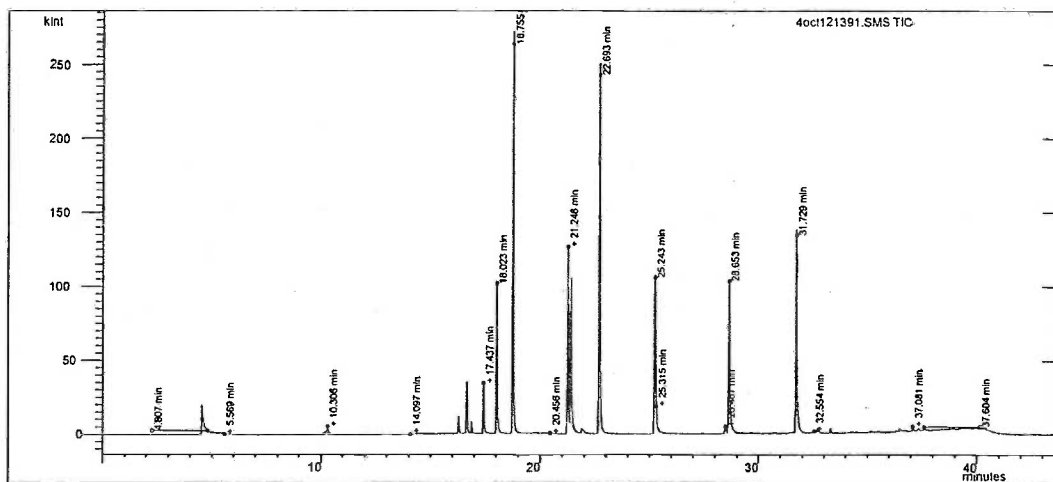
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Sample Name: 312094-005_10mL-8

Acquisition Date: 10/19/2012 10:06:22 AM

Inj. Notes: pH<2

Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.023	96.0+70.0	Fluorobenzene (IS1)	920	177279	25.000
25.243	117.0	Chlorobenzene-d5(IS2)	993	143965	25.000
31.729	152.0	1,4-Dichlorobenzene-d4(IS3)	961	75729	25.000
4.807	85.0	Dichlorodifluoromethane	448		N/A
5.446	50.0+52.0+49.0	Chloromethane	502		N/A
5.569	62.0+64.0	Vinyl Chloride	807	13	0.005
7.014	94.0+45.0	Bromomethane	555		N/A
7.411	45.0+49.0	Chloroethane	563		N/A
8.254	101.0+103.0	Trichlorofluoromethane	899	397	0.059
9.497	59.0	Ethyl ether	585		N/A
10.225	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	915	3775	0.950
11.202	56.0	Acrolein	588		N/A
10.306	96.0+61.0+98.0	1,1-Dichloroethene	921	12509	2.430
10.845	142.0	Iodomethane	819		N/A
10.792	43.0+58.0	Acetone	821	237	0.784
11.515	45.0	Isopropyl alcohol (2-Propanol)	732		N/A
10.957	76.0	Carbon disulfide	587		N/A
13.346	41.0	Acetonitrile	883		N/A
11.623	41.0+39.0	Allyl chloride	779		N/A
12.138	84.0+49.0+86.0	Methylene Chloride	862	1329	0.229
12.615	59.0	tert-Butanol	612		N/A
12.834	73.0	Methyl-tert-butyl-ether (MTBE)	774	266	0.081
12.811	61.0+96.0	1,1,2-Dichloroethene	737	59	0.010

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4oct121391.SMS

ALAB: 00183

CONFIDENTIAL

LMC-PET-00001467

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	431		N/A
13.360	41.0	n-Hexane	590		N/A
14.097	63.0	1,1-Dichloroethane	814	438	0.109
14.298	43.0	Vinyl acetate	562		N/A
14.055	45.0	Isopropyl ether	564		N/A
14.201	53.0	Chloroprene	473		N/A
14.968	59.0	Ethyl-tert-butyl-ether	410		N/A
15.440	77.0+41.0	2,2-Dichloropropane	686		N/A
15.598	61.0+96.0	c-1,2-Dichloroethene	846	184	0.031
15.831	43.0+72.0	2-Butanone (MEK)	598	90	0.182
15.948	54.0	Propionitrile	262		N/A
16.295	130.0+49.0	Bromochloromethane	363	1677	0.479
17.528	39.0	Methacrylonitrile	529		N/A
16.294	83.0+85.0	Chloroform	990	24432	3.255
16.601	97.0+99.0	1,1,1-Trichloroethane	970	1314	0.143
16.664	111.0	Dibromofluoromethane (Surr1)	994	36724	25.147
16.888	117.0+119.0	Carbon Tetrachloride	988	14571	1.946
16.224	42.0+72.0	Tetrahydrofuran	762	81	0.277
16.949	75.0+39.0	1,1-Dichloropropene	625		N/A
17.423	78.0	Benzene	473	143	0.024
17.437	65.0	1,2-Dichloroethane-d4 (Surr2)	988	54906	27.674
17.629	62.0+64.0	1,2-Dichloroethane	742	695	0.179
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	509		N/A
18.755	130.0+132.0+95.0	Trichloroethene	995	413369	56.138
19.397	41.0	Methyl methacrylate	570		N/A
19.273	63.0+65.0	1,2-Dichloropropane	452		N/A
19.543	93.0+174.0	Dibromomethane	679		N/A
20.281	88.0	1,4-Dioxane	516		N/A
19.855	83.0+85.0	Bromodichloromethane	966	803	0.151
20.456	63.0+43.0	2-Chloroethyl vinyl ether	599	65	0.268
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	568		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	374		N/A
21.246	98.0	Toluene-d8 (Surr3)	996	202676	26.308
21.400	92.0+91.0	Toluene	998	243636	13.410
22.013	69.0	Ethyl methacrylate	516		N/A
23.027	43.0+58.0+100.0	2-Hexanone	538		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	183		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	578		N/A
22.693	164.0+166.0	Tetrachloroethene	997	58877	72.023
22.757	76.0+41.0	1,3-Dichloropropane	349	345	0.085
17.440	41.0	Isobutyl alcohol	249		N/A
23.543	129.0+127.0	Dibromochloromethane	679		N/A
23.948	107.0+109.0	1,2-Dibromoethane	430		N/A
25.749	91.0	1-Chlorohexane	707		N/A
25.315	112.0+114.0	Chlorobenzene	258		N/A
25.481	106.0+91.0	Ethylbenzene	745		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	596		N/A
25.823	106.0+91.0	p,m-Xylenes	878		N/A
27.024	106.0+91.0	o-Xylene	742		N/A
27.285	104.0+78.0	Styrene	791	290	0.025
27.764	171.0+173.0+175.0	Bromoform	801		N/A

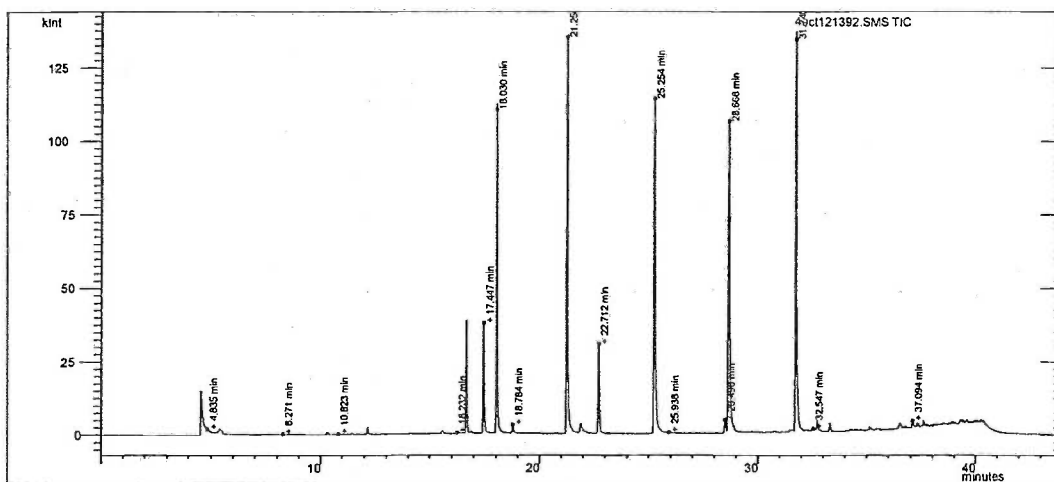
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	826		N/A
28.487	75.0	cis-1,4-Dichloro-2-butene	771	234	~~0.708~~
28.653	95.0	p-Bromofluorobenzene (Surr4)	998	98273	<u>26.146</u>
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	736		N/A
29.044	77.0+158.0	Bromobenzene	896		N/A
29.148	91.0+120.0	n-Propylbenzene	826		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	861		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	901		N/A
29.517	91.0+126.0	2-Chlorotoluene	794		N/A
29.642	105.0+120.0	1,3,5-Trimethylbenzene	913		N/A
29.521	91.0+126.0	4-Chlorotoluene	732		N/A
30.485	119.0+91.0	tert-Butylbenzene	708		N/A
30.726	105.0+120.0	1,2,4-Trimethylbenzene	914	915	0.042
31.431	117.0	Pentachloroethane	650		N/A
31.101	105.0+134.0	sec-Butylbenzene	902	722	0.032
30.483	119.0	4-Isopropyltoluene	691		N/A
31.578	146.0+148.0	1,3-Dichlorobenzene	964	637	0.055
31.580	146.0+148.0	1,4-Dichlorobenzene	968	526	0.045
32.112	91.0	Benzyl Chloride	500		N/A
32.554	91.0+134.0	n-Butylbenzene	939	1276	0.073
32.781	146.0+148.0	1,2-Dichlorobenzene	868	445	0.040
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	643		N/A
37.602	180.0+182.0	1,2,4-Trichlorobenzene	988	3163	0.422
36.683	225.0+226.0	Hexachlorobutadiene	944		N/A
37.081	128.0	Naphthalene	994	3736	~~0.671~~
37.604	180.0+182.0	1,2,3-Trichlorobenzene	988	2768	0.380

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121392.S Calc Method: C:\VarianWS\methods\ms4_524_10181
MS 2_35C.mth
Sample Name: 312094-006_10mL-8 Acquisition Date: 10/19/2012 10:55:29 AM
Inj. Notes: pH<2 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.030	96.0+70.0	Fluorobenzene (IS1)	888	186376	25.000
25.254	117.0	Chlorobenzene-d5(IS2)	995	152012	25.000
31.740	152.0	1,4-Dichlorobenzene-d4(IS3)	965	75088	25.000
4.835	85.0	Dichlorodifluoromethane	690	359	0.112
5.446	50.0+52.0+49.0	Chloromethane	380		N/A
5.812	62.0+64.0	Vinyl Chloride	816		N/A
7.014	94.0+45.0	Bromomethane	529		N/A
7.411	45.0+49.0	Chloroethane	679		N/A
8.271	101.0+103.0	Trichlorofluoromethane	796	88	0.012
9.497	59.0	Ethyl ether	726		N/A
10.264	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	811	72	0.017
11.202	56.0	Acrolein	424		N/A
10.321	96.0+61.0+98.0	1,1-Dichloroethene	897	1999	0.369
10.862	142.0	Iodomethane	893	25	0.006
10.823	43.0+58.0	Acetone	898	641	2.014
11.515	45.0	Isopropyl alcohol (2-Propanol)	821		N/A
10.957	76.0	Carbon disulfide	593		N/A
13.346	41.0	Acetonitrile	781		N/A
11.623	41.0+39.0	Allyl chloride	628		N/A
12.149	84.0+49.0+86.0	Methylene Chloride	892	5352	0.877
12.615	59.0	tert-Butanol	548		N/A
12.833	73.0	Methyl-tert-butyl-ether (MTBE)	779	239	0.069
12.839	61.0+96.0	1,1,2-Dichloroethene	654	44	0.007

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4oct121392.SMS

ALAB: 00186

CONFIDENTIAL

LMC-PET-00001470

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	392		N/A
13.360	41.0	n-Hexane	675		N/A
14.103	63.0	1,1-Dichloroethane	768	443	0.104
14.298	43.0	Vinyl acetate	376		N/A
14.055	45.0	Isopropyl ether	763		N/A
14.201	53.0	Chloroprene	507		N/A
14.968	59.0	Ethyl-tert-butyl-ether	479		N/A
15.440	77.0+41.0	2,2-Dichloropropane	727		N/A
15.594	61.0+96.0	c-1,2-Dichloroethene	911	894	0.144
15.767	43.0+72.0	2-Butanone (MEK)	517	26	0.049
15.948	54.0	Propionitrile	373		N/A
16.321	130.0+49.0	Bromochloromethane	446	129	0.035
17.528	39.0	Methacrylonitrile	480		N/A
16.307	83.0+85.0	Chloroform	980	1461	0.185
16.609	97.0+99.0	1,1,1-Trichloroethane	849	287	0.030
16.671	111.0	Dibromofluoromethane (Surr1)	993	39971	26.035
16.901	117.0+119.0	Carbon Tetrachloride	974	1074	0.136
16.232	42.0+72.0	Tetrahydrofuran	737	131	0.422
16.949	75.0+39.0	1,1-Dichloropropene	570		N/A
17.378	78.0	Benzene	534		N/A
17.447	65.0	1,2-Dichloroethane-d4 (Surr2)	988	59334	28.446
17.651	62.0+64.0	1,2-Dichloroethane	560	103	0.025
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	498		N/A
18.784	130.0+132.0+95.0	Trichloroethene	992	4355	0.560
19.397	41.0	Methyl methacrylate	692		N/A
19.273	63.0+65.0	1,2-Dichloropropane	889		N/A
19.543	93.0+174.0	Dibromomethane	385		N/A
20.281	88.0	1,4-Dioxane	585		N/A
19.865	83.0+85.0	Bromodichloromethane	922	251	0.045
20.437	63.0+43.0	2-Chloroethyl vinyl ether	768	35	0.136
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	587		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	521		N/A
21.256	98.0	Toluene-d8 (Surr3)	997	213108	26.198
21.428	92.0+91.0	Toluene	500	1382	0.072
22.013	69.0	Ethyl methacrylate	461		N/A
23.027	43.0+58.0+100.0	2-Hexanone	424		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	128		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	734		N/A
22.712	164.0+166.0	Tetrachloroethene	997	6839	7.923
22.899	76.0+41.0	1,3-Dichloropropane	584	92	0.022
17.440	41.0	Isobutyl alcohol	483		N/A
23.543	129.0+127.0	Dibromochloromethane	666		N/A
24.040	107.0+109.0	1,2-Dibromoethane	704	27	0.007
25.749	91.0	1-Chlorohexane	628		N/A
25.315	112.0+114.0	Chlorobenzene	257		N/A
25.481	106.0+91.0	Ethylbenzene	660		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	394		N/A
25.938	106.0+91.0	p,m-Xylenes	857	328	0.017
27.024	106.0+91.0	o-Xylene	823		N/A
27.106	104.0+78.0	Styrene	580		N/A
27.764	171.0+173.0+175.0	Bromoform	603		N/A

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.000	105.0+120.0	Isopropylbenzene	892		N/A
28.498	75.0	cis-1,4-Dichloro-2-butene	702	151	0.461
28.666	95.0	p-Bromofluorobenzene (Surr4)	999	102429	27.484
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	602		N/A
29.044	77.0+158.0	Bromobenzene	896		N/A
29.148	91.0+120.0	n-Propylbenzene	782		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	662		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	656		N/A
29.517	91.0+126.0	2-Chlorotoluene	848		N/A
29.708	105.0+120.0	1,3,5-Trimethylbenzene	868	540	0.024
29.521	91.0+126.0	4-Chlorotoluene	880		N/A
30.485	119.0+91.0	tert-Butylbenzene	801		N/A
30.732	105.0+120.0	1,2,4-Trimethylbenzene	888	848	0.039
31.431	117.0	Pentachloroethane	460		N/A
31.115	105.0+134.0	sec-Butylbenzene	849	797	0.036
30.483	119.0	4-Isopropyltoluene	798		N/A
31.588	146.0+148.0	1,3-Dichlorobenzene	942	393	0.034
31.594	146.0+148.0	1,4-Dichlorobenzene	949	279	0.024
32.112	91.0	Benzyl Chloride	611		N/A
32.547	91.0+134.0	n-Butylbenzene	923	1687	0.097
32.821	146.0+148.0	1,2-Dichlorobenzene	905	472	0.043
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	593		N/A
37.612	180.0+182.0	1,2,4-Trichlorobenzene	964	2488	0.335
36.683	225.0+226.0	Hexachlorobutadiene	970		N/A
37.094	128.0	Naphthalene	992	3478	0.630
37.612	180.0+182.0	1,2,3-Trichlorobenzene	983	2073	0.287

Varian Star Workstation - RecalcList Fri Oct 19 10:16:01 2012

RecalcList: C:\VarianWS\8260list.rcl

Created: Wed Dec 01 10:37:29 2004

Modified: Fri Oct 19 10:09:59 2012

MS# 524.2 10/18/12 - 35°C

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2	mb	c:\varianws\data\4oct12\4oct121360.SMS
3	1ppb 8260 ic	c:\varianws\data\4oct12\4oct121361.SMS
4	0.5ppb 524.2 ic	c:\varianws\data\4oct12\4oct121362.SMS
5	5ppb 8260 ic	c:\varianws\data\4oct12\4oct121363.SMS
6	2.5ppb 524.2 ic	c:\varianws\data\4oct12\4oct121364.SMS
7	20ppb 8260 ic	c:\varianws\data\4oct12\4oct121365.SMS
8	10ppb 524.2 ic	c:\varianws\data\4oct12\4oct121366.SMS
9	50ppb 8260 ic	c:\varianws\data\4oct12\4oct121367.SMS
10	25ppb 524.2 ic	c:\varianws\data\4oct12\4oct121368.SMS
11	100ppb 8260 ic	c:\varianws\data\4oct12\4oct121369.SMS
12	50ppb 524.2 ic	c:\varianws\data\4oct12\4oct121370.SMS
13	150ppb 8260 ic	c:\varianws\data\4oct12\4oct121371.SMS
14	75ppb 524.2 ic	c:\varianws\data\4oct12\4oct121372.SMS
15	200ppb 8260 ic	c:\varianws\data\4oct12\4oct121373.SMS
16	tune	c:\varianws\data\4oct12\4oct121374.SMS
17	100ppb 524.2 ic	c:\varianws\data\4oct12\4oct121375.SMS
18	250ppb 8260 ic	c:\varianws\data\4oct12\4oct121376.SMS
19	125ppb 524.2 ic	c:\varianws\data\4oct12\4oct121377.SMS
20	rinse	c:\varianws\data\4oct12\4oct121378.SMS
21	rinse	c:\varianws\data\4oct12\4oct121379.SMS
22	rinse	c:\varianws\data\4oct12\4oct121380.SMS
23	10ppb BFB tune 1	c:\varianws\data\4oct12\4oct121381.SMS
24	50ppb 8260 ccv 1	c:\varianws\data\4oct12\4oct121382.SMS
25	25ppb 524.2 ccv 1	c:\varianws\data\4oct12\4oct121383.SMS
26	50ppb 8260 lcs 1	c:\varianws\data\4oct12\4oct121384.SMS
27	25ppb 524.2 lcs 1	c:\varianws\data\4oct12\4oct121385.SMS
28	rinse	c:\varianws\data\4oct12\4oct121386.SMS
29	method blk 1	c:\varianws\data\4oct12\4oct121387.SMS
30	312094-001_10mL-1	c:\varianws\data\4oct12\4oct121388.SMS
31	312094-002_10mL-8	c:\varianws\data\4oct12\4oct121389.SMS
32	312094-004_10mL-5	c:\varianws\data\4oct12\4oct121390.SMS

ALAB: 00189

VOLATILE ORGANICS INITIAL CALIBRATION DATA

EPA Method 8260A

Lab Name: Associated Labs
 Lab Code: # 4
 Instrument ID:
 Heated Purge (Y/N): No
 GC Column:
 Case No.:
 Contract:
 SAS No:
 Cal. Sample Date(s): 10/18/2012
 Cal. Sample Time(s): 10:15
 ID: (mm)
 SDG No: 10/18/2012
 22:33

Calibration File: C:\VarianWS\data\4Oct12\4oct121377.SMS

Index	Level	Replicate	Acquired	File
Index: 1	Level: 1	Replicate: 1	Acquired: 10/18/2012 10:15	File: C:\VarianWS\data\4Oct12\4oct121362.SMS
Index: 2	Level: 2	Replicate: 1	Acquired: 10/18/2012 11:53	File: C:\VarianWS\data\4Oct12\4oct121364.SMS
Index: 3	Level: 3	Replicate: 1	Acquired: 10/18/2012 13:32	File: C:\VarianWS\data\4Oct12\4oct121366.SMS
Index: 4	Level: 4	Replicate: 1	Acquired: 10/18/2012 15:10	File: C:\VarianWS\data\4Oct12\4oct121368.SMS
Index: 5	Level: 5	Replicate: 1	Acquired: 10/18/2012 16:48	File: C:\VarianWS\data\4Oct12\4oct121370.SMS
Index: 6	Level: 6	Replicate: 1	Acquired: 10/18/2012 18:27	File: C:\VarianWS\data\4Oct12\4oct121372.SMS
Index: 7	Level: 7	Replicate: 1	Acquired: 10/18/2012 20:54	File: C:\VarianWS\data\4Oct12\4oct121375.SMS
Index: 8	Level: 8	Replicate: 1	Acquired: 10/18/2012 22:33	File: C:\VarianWS\data\4Oct12\4oct121377.SMS

RRF = (Area(sample))/(Amount(sample))/(Area(standard)/Amount(standard))

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
Dichlorodifluoromethane	0.401	0.407	0.462	0.452	0.432	0.432	0.427	0.430	0.430	4.7
Chloromethane	0.396	0.395	0.441	0.430	0.383	0.346	0.331	0.314	0.379	12.0
Vinyl Chloride	0.349	0.336	0.383	0.402	0.395	0.381	0.389	0.378	0.377	6.1
Bromomethane	0.191	0.130	0.158	0.145	0.149	0.139	0.135	0.126	0.146	14.1
Chloroethane		0.024	0.026	0.024	0.025	0.025	0.026	0.025	0.025	3.6
Trichlorofluoromethane	0.845	0.891	0.999	0.991	0.969	0.939	0.954	0.970	0.945	5.6
Ethyl ether	0.074	0.084	0.093	0.087	0.088	0.089	0.085	0.084	0.086	6.5
Trichlorotrifluoroethane (Freon 113)	0.497	0.537	0.614	0.588	0.570	0.557	0.562	0.558	0.560	6.2
1,1-Dichloroethene	0.613	0.674	0.810	0.736	0.747	0.746	0.746	0.735	0.726	8.0
Iodomethane			0.423	0.553	0.554	0.537	0.568	0.550	0.531	10.1
Acetone		0.059	0.040	0.037	0.040	0.039	0.041	0.043	0.043	17.8
Carbon disulfide	0.632	0.626	0.620	0.603	0.590	0.565	0.582	0.583	0.600	4.0
10/19/2012 10:27										
									4oct121368.SMS	

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ALAB: 000100

Compound	RRF-1	RRF-2	RRF-3	RRF-4	RRF-5	RRF-6	RRF-7	RRF-8	Avg RRF	% RSD
Acetonitrile	0.468	0.534	0.582	0.571	0.542	0.520	0.513	0.517	0.531	6.7
Allyl chloride	0.969	1.074	1.074	1.145	1.098	1.050	1.045	1.035	1.061	4.8
Methylene Chloride	0.859	0.794	0.727	0.823	0.888	0.810	0.816	0.831	0.819	5.8
tert-Butanol	0.016	0.016	0.018	0.018	0.018	0.018	0.018	0.019	0.018	5.7
Methyl-tert-butyl-ether (MTBE)	0.402	0.493	0.479	0.476	0.456	0.456	0.474	0.487	0.466	6.2
t-1,2-Dichloroethene	0.843	0.922	0.957	0.926	0.875	0.828	0.811	0.797	0.870	6.8
Acrylonitrile		0.023	0.025	0.028	0.031	0.031	0.031	0.032	0.029	12.2
n-Hexane	0.461	0.534	0.582	0.571	0.550	0.520	0.522	0.517	0.532	7.0
1,1-Dichloroethane	0.569	0.646	0.650	0.612	0.569	0.532	0.494	0.476	0.569	11.5
Isopropyl ether	0.737	0.872	0.957	0.908	0.827	0.767	0.732	0.729	0.816	10.8
Chloroprene	0.494	0.612	0.654	0.657	0.629	0.589	0.593	0.594	0.603	8.5
Ethyl-tert-butyl-ether	0.945	0.988	1.056	0.998	0.920	0.883	0.826	0.826	0.930	8.9
2,2-Dichloropropane	0.902	0.832	0.838	0.782	0.752	0.698	0.664	0.648	0.765	11.8
c-1,2-Dichloroethene	0.722	0.765	0.908	0.907	0.864	0.824	0.808	0.839	0.830	7.9
2-Butanone (MEK)		0.045	0.065	0.070	0.072	0.076	0.079	0.082	0.070	17.6
Propionitrile		0.005	0.010	0.013	0.014	0.013	0.014	0.015	0.012	29.7
Bromochloromethane	0.469	0.476	0.539	0.520	0.501	0.475	0.476	0.497	0.494	5.1
Methacrylonitrile	0.080	0.131	0.133	0.143	0.134	0.127	0.125	0.121	0.124	15.4
Chloroform	1.036	1.011	1.122	1.096	1.071	1.027	1.049	1.057	1.059	3.5
1,1,1-Trichloroethane	1.180	1.310	1.374	1.361	1.313	1.267	1.291	1.294	1.299	4.6
Dibromofluoromethane (Surr1)	0.209	0.213	0.215	0.213	0.201	0.198	0.199	0.200	0.206	3.5
Carbon Tetrachloride	0.995	1.022	1.085	1.128	1.073	1.025	1.052	1.064	1.056	4.0
Tetrahydrofuran			0.047	0.042	0.037	0.038	0.043	0.042	0.041	9.2
1,1-Dichloropropene	0.820	0.818	0.882	0.849	0.813	0.780	0.761	0.774	0.812	5.0
Benzene	0.898	0.870	0.880	0.867	0.829	0.796	0.818	0.841	0.850	4.1
1,2-Dichloroethane-d4 (Surr2)	0.292	0.322	0.306	0.298	0.277	0.252	0.242	0.249	0.280	10.6
1,2-Dichloroethane	0.447	0.565	0.626	0.623	0.562	0.535	0.523	0.509	0.549	10.8
tert-Amyl-methyl-ether	0.850	0.971	0.995	0.946	0.914	0.878	0.860	0.872	0.911	6.0
Trichloroethene	1.123	1.289	1.345	1.338	1.307	1.271	1.276	1.281	1.279	5.4
Methyl methacrylate	0.219	0.057	0.187	0.212	0.212	0.206	0.199	0.195	0.186	28.5
1,2-Dichloropropane	0.308	0.348	0.377	0.351	0.342	0.324	0.299	0.294	0.330	8.8
Dibromomethane	0.351	0.391	0.447	0.439	0.421	0.418	0.406	0.412	0.411	7.3
Bromodichloromethane	0.763	0.924	1.001	0.942	0.947	0.920	0.942	0.951	0.924	7.5
2-Chloroethyl vinyl ether	0.041	0.029	0.045	0.041	0.041	0.046	0.047	0.049	0.042	14.8

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ALAB: 00101

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
c-1,3-Dichloropropene	0.764	0.901	1.089	1.056	1.052	0.987	0.969	0.967	0.973	10.7
4-Methyl-2-pentanone		0.169	0.258	0.285	0.278	0.276	0.281	0.284	0.261	16.0
Toluene-d8 (Surr3)	1.339	1.343	1.380	1.315	1.354	1.343	1.312	1.317	1.338	1.7
Toluene	3.125	3.269	3.329	3.222	3.138	3.038	3.022	3.097	3.155	3.5
Ethyl methacrylate			0.169	0.179	0.185	0.186	0.193	0.196	0.185	5.4
2-Hexanone		0.024	0.126	0.192	0.219	0.232	0.242	0.258	0.185	45.0
t-1,3-Dichloropropene	0.361	0.468	0.503	0.488	0.482	0.471	0.456	0.456	0.460	9.4
1,1,2-Trichloroethane	0.363	0.442	0.514	0.511	0.507	0.495	0.491	0.507	0.479	10.9
Tetrachloroethene	0.146	0.147	0.147	0.148	0.139	0.133	0.143	0.133	0.142	4.3
1,3-Dichloropropane	0.554	0.632	0.760	0.736	0.726	0.725	0.731	0.746	0.701	10.1
Dibromochloromethane	0.467	0.547	0.644	0.641	0.636	0.626	0.632	0.649	0.605	10.7
1,2-Dibromoethane	0.403	0.569	0.645	0.642	0.649	0.654	0.654	0.663	0.610	14.5
Chlorobenzene	2.127	2.014	2.069	2.048	2.015	1.953	1.973	1.969	2.021	2.9
Ethylbenzene	6.696	6.717	7.277	6.880	6.545	6.255	6.431	6.309	6.639	5.0
1,1,1,2-Tetrachloroethane	1.153	1.337	1.571	1.423	1.337	1.235	1.286	1.265	1.326	9.6
p,m-Xylenes	6.345	6.503	6.951	6.553	6.240	5.970	6.106	6.051	6.340	5.1
o-Xylene	6.423	6.627	7.071	6.648	6.203	6.010	6.238	6.132	6.419	5.4
Styrene	2.971	3.676	4.254	4.086	3.972	3.883	4.003	4.011	3.857	10.2
Bromoforn	0.579	0.636	0.678	0.659	0.625	0.622	0.649	0.638	0.636	4.6
Isopropylbenzene	6.806	7.054	7.345	7.093	6.836	6.473	6.734	6.568	6.865	4.2
cis-1,4-Dichloro-2-butene	0.091	0.101	0.119	0.113	0.112	0.110	0.113	0.114	0.109	8.2
p-Bromofluorobenzene (Surr4)	1.310	1.222	1.268	1.236	1.199	1.224	1.255	1.213	1.241	2.9
1,1,2,2-Tetrachloroethane	0.900	1.029	1.079	0.987	0.956	0.930	0.975	0.952	0.976	5.8
Bromobenzene	2.800	2.884	3.116	3.255	2.938	2.915	2.974	2.927	2.976	4.8
n-Propylbenzene	7.973	8.169	8.639	8.324	8.004	7.628	7.637	7.657	8.004	4.6
trans-1,4-Dichloro-2-butene	0.436	0.510	0.570	0.526	0.499	0.478	0.506	0.501	0.503	7.6
1,2,3-Trichloropropane	0.664	0.688	0.758	0.693	0.645	0.614	0.644	0.638	0.668	6.7
2-Chlorotoluene	4.826	5.218	5.485	5.241	5.138	4.832	4.952	5.032	5.091	4.4
1,3,5-Trimethylbenzene	8.189	7.648	7.896	7.573	7.253	7.055	7.217	7.250	7.510	5.2
4-Chlorotoluene	4.566	5.142	5.325	5.069	4.911	4.735	4.867	4.792	4.926	4.9
tert-Butylbenzene	9.758	9.825	10.014	9.403	8.988	8.569	8.723	8.530	9.226	6.5
1,2,4-Trimethylbenzene	6.930	6.820	7.063	7.222	7.003	7.137	7.499	7.866	7.192	4.7
Pentachloroethane	1.085	1.027	1.036	0.977	0.921	0.925	0.897	0.943	0.976	6.8
sec-Butylbenzene	7.759	7.659	7.884	7.625	7.240	7.151	7.139	7.202	7.457	4.1

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ALAB : 000102

Compound	RRF1	RRF2	RRF3	RRF4	RRF5	RRF6	RRF7	RRF8	Avg RRF	% RSD
4-Isopropyltoluene	5.814	5.671	5.830	5.457	5.257	5.131	5.248	5.207	5.452	5.2
1,3-Dichlorobenzene	3.837	3.890	4.167	4.060	3.763	3.635	3.695	3.745	3.849	4.8
1,4-Dichlorobenzene	3.745	3.904	4.221	4.143	3.763	3.708	3.706	3.745	3.867	5.3
n-Butylbenzene	5.663	5.481	5.736	5.881	5.730	5.775	5.919	6.204	5.799	3.7
1,2-Dichlorobenzene	3.740	3.656	3.831	3.709	3.494	3.581	3.513	3.641	3.646	3.1
1,2-Dibromo-3-chloropropane	0.429	0.367	0.393	0.392	0.370	0.404	0.387	0.412	0.394	5.3
1,2,4-Trichlorobenzene	3.484	2.526	2.471	2.388	2.267	2.209	2.147	2.319	2.476	17.2
Hexachlorobutadiene	2.195	1.724	1.695	1.611	1.532	1.454	1.459	1.479	1.644	15.0
Naphthalene		1.954	1.970	1.854	1.713	1.834	1.652	1.885	1.837	6.4
1,2,3-Trichlorobenzene	3.210	2.515	2.378	2.323	2.212	2.178	2.115	2.287	2.402	14.5
									Average %RSD	8.2

ALAB: 00193

LMC-PET-00001477

10/19/2012 10:27

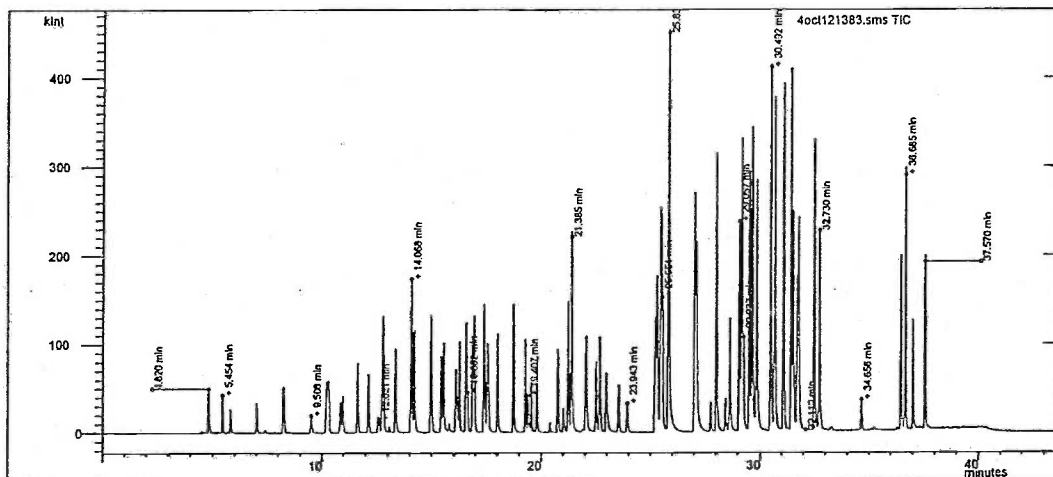
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4oct121368.SMS

524 Volatile Organics

Associated Labs
GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121383.sm Calc Method: C:\VarianWS\methods\ms4_524_10181
s 2_35C.mth
Sample Name: 25ppb 524.2 ccv 1 Acquisition Date: 10/19/2012 3:28:56 AM
Inj. Notes: w#12090602 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	890	189709	25.000
25.231	117.0	Chlorobenzene-d5(IS2)	995	161370	25.000
31.712	152.0	1,4-Dichlorobenzene-d4(IS3)	963	90615	25.000
4.820	85.0	Dichlorodifluoromethane	956	85179	26.081
5.454	50.0+52.0+49.0	Chloromethane	990	78525	27.274
5.821	62.0+64.0	Vinyl Chloride	998	72144	25.233
7.021	94.0+45.0	Bromomethane	936	26873	24.179
7.403	45.0+49.0	Chloroethane	762	4581	24.215
8.252	101.0+103.0	Trichlorofluoromethane	979	185663	25.895
9.508	59.0	Ethyl ether	979	17286	26.608
10.223	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	919	109129	25.665
11.202	56.0	Acrolein	550		N/A
10.301	96.0+61.0+98.0	1,1-Dichloroethene	948	139906	25.397
10.857	142.0	Iodomethane	939	102854	25.525
10.798	43.0+58.0	Acetone	900	7616	23.510
11.515	45.0	Isopropyl alcohol (2-Propanol)	750		N/A
10.968	76.0	Carbon disulfide	721	110487	24.261
13.363	41.0	Acetonitrile	795	106814	26.519
11.633	41.0+39.0	Allyl chloride	959	206722	25.672
12.131	84.0+49.0+86.0	Methylene Chloride	892	144415	23.247
12.621	59.0	tert-Butanol	952	16678	123.873
12.767	73.0	Methyl-tert-butyl-ether (MTBE)	981	87000	24.628
12.807	61.0+96.0	1,1,2-Dichloroethene	978	169041	25.611

RT	Quan	Ions	Compound Name	R.Match	Area	Amount
13.073	53.0		Acrylonitrile	990	5156	23.629
13.364	41.0		n-Hexane	997	106878	26.468
14.075	63.0		1,1-Dichloroethane	980	116738	27.057
14.298	43.0		Vinyl acetate	149		N/A
14.068	45.0		Isopropyl ether	954	171209	27.643
14.213	53.0		Chloroprene	995	121873	26.642
14.971	59.0		Ethyl-tert-butyl-ether	988	188486	26.705
15.450	77.0+41.0		2,2-Dichloropropane	998	128432	22.138
15.558	61.0+96.0		c-1,2-Dichloroethene	988	170337	27.054
15.659	43.0+72.0		2-Butanone (MEK)	778	13430	25.364
15.938	54.0		Propionitrile	845	2144	23.812
16.119	130.0+49.0		Bromochloromethane	997	98978	26.397
17.538	39.0		Methacrylonitrile	328	26469	28.070
16.279	83.0+85.0		Chloroform	995	205501	25.582
16.581	97.0+99.0		1,1,1-Trichloroethane	997	249538	25.322
16.652	111.0		Dibromofluoromethane (Surr1)	985	40319	25.800
16.874	117.0+119.0		Carbon Tetrachloride	990	203783	25.437
16.176	42.0+72.0		Tetrahydrofuran	666	7809	24.807
16.950	75.0+39.0		1,1-Dichloropropene	998	153849	24.964
17.383	78.0		Benzene	992	159274	24.700
17.425	65.0		1,2-Dichloroethane-d4 (Surr2)	976	55138	25.970
17.589	62.0+64.0		1,2-Dichloroethane	981	116558	27.988
17.540	73.0+55.0+87.0		tert-Amyl-methyl-ether	996	181064	26.205
18.745	130.0+132.0+95.0		Trichloroethene	996	209978	25.441
19.407	41.0		Methyl methacrylate	998	35650	29.695
19.283	63.0+65.0		1,2-Dichloropropane	998	56857	26.655
19.551	93.0+174.0		Dibromomethane	992	69684	26.295
20.281	88.0		1,4-Dioxane	468		N/A
19.824	83.0+85.0		Bromodichloromethane	998	151665	25.441
20.404	63.0+43.0		2-Chloroethyl vinyl ether	692	6912	25.268
20.750	75.0+77.0+39.0		c-1,3-Dichloropropene	955	165273	26.313
21.017	43.0+58.0		4-Methyl-2-pentanone	989	47407	28.109
21.233	98.0		Toluene-d8 (Surr3)	996	215731	24.982
21.385	92.0+91.0		Toluene	998	508598	24.974
22.029	69.0		Ethyl methacrylate	989	29880	25.078
23.048	43.0+58.0+100.0		2-Hexanone	993	31215	26.193
22.057	75.0+77.0		t-1,3-Dichloropropene	983	76390	25.701
22.518	97.0+99.0		1,1,2-Trichloroethane	998	82557	26.717
22.685	164.0+166.0		Tetrachloroethene	997	23278	25.405
22.979	76.0+41.0		1,3-Dichloropropane	997	119751	26.460
17.440	41.0		Isobutyl alcohol	247		N/A
23.546	129.0+127.0		Dibromochloromethane	997	102460	26.222
23.943	107.0+109.0		1,2-Dibromoethane	998	105633	26.835
25.749	91.0		1-Chlorohexane	986		N/A
25.313	112.0+114.0		Chlorobenzene	991	327214	25.085
25.481	106.0+91.0		Ethylbenzene	996	606645	25.211
25.551	131.0+117.0		1,1,1,2-Tetrachloroethane	996	127843	26.601
25.834	106.0+91.0		p,m-Xylenes	998	1.154E6	50.198
27.029	106.0+91.0		o-Xylene	997	588039	25.274
27.105	104.0+78.0		Styrene	995	368825	26.382
27.767	171.0+173.0+175.0		Bromoform	989	59031	25.619

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.014	105.0+120.0	Isopropylbenzene	992	623337	25.051
28.440	75.0	cis-1,4-Dichloro-2-butene	996	9288	23.509
28.637	95.0	p-Bromofluorobenzene (Surr4)	998	113478	25.231
29.072	83.0+85.0	1,1,2,2-Tetrachloroethane	996	90432	25.562
29.057	77.0+158.0	Bromobenzene	994	286893	26.595
29.164	91.0+120.0	n-Propylbenzene	996	724472	24.973
29.237	75.0	trans-1,4-Dichloro-2-butene	990	47736	26.176
29.235	75.0+110.0	1,2,3-Trichloropropane	981	62663	25.876
29.526	91.0+126.0	2-Chlorotoluene	997	461130	24.992
29.644	105.0+120.0	1,3,5-Trimethylbenzene	997	661825	24.313
29.527	91.0+126.0	4-Chlorotoluene	995	454089	25.433
30.492	119.0+91.0	tert-Butylbenzene	866	848830	25.382
30.666	105.0+120.0	1,2,4-Trimethylbenzene	997	617999	23.705
31.431	117.0	Pentachloroethane	420	88466	25.003
31.072	105.0+134.0	sec-Butylbenzene	992	677372	25.060
30.488	119.0	4-Isopropyltoluene	878	492393	24.918
31.530	146.0+148.0	1,3-Dichlorobenzene	996	340872	24.433
31.528	146.0+148.0	1,4-Dichlorobenzene	996	344255	24.561
32.112	91.0	Benzyl Chloride	693		N/A
32.484	91.0+134.0	n-Butylbenzene	996	467775	22.256
32.730	146.0+148.0	1,2-Dichlorobenzene	996	324560	24.562
34.656	75.0+157.0	1,2-Dibromo-3-chloropropane	976	36199	25.326
37.565	180.0+182.0	1,2,4-Trichlorobenzene	989	198290	22.093
36.685	225.0+226.0	Hexachlorobutadiene	977	132506	22.241
37.029	128.0	Naphthalene	997	164753	24.739
37.570	180.0+182.0	1,2,3-Trichlorobenzene	997	192944	22.160

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

EPA Method 8260A

Lab Name: Associated Labs

Lab Code: # 4

Case No.:

Contract:

SAS No:

SDG No:

Lab File ID (CONTROL):

c:\varian\sw\data\4oct12\4oct121383.sms

Lab Sample ID: 25ppb 524.2 ccv 1

Instrument ID:

Date Analyzed: 10/19/2012

Time Analyzed: 03:28

GC Column:

ID:

(mm)

Heated Purge: (Y/N) No

	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
	IS1		IS2		IS3							
12 HOUR STD	189709	18.01	161370	25.23	90615	31.71						
UPPER LIMIT	379418	18.51	322740	25.73	181230	32.21						
LOWER LIMIT	94855	17.51	80685	24.73	45308	31.21						
EPA SAMPLE NO												
4oct121362	179830	18.00	147011	25.22	76556	31.71						
4oct121364	180474	18.00	151407	25.21	85930	31.71						
4oct121366	188129	18.00	156992	25.22	86327	31.70						
4oct121368	186528	18.00	162071	25.22	89391	31.70						
4oct121370	193614	18.00	163622	25.22	93444	31.71						
4oct121372	188141	18.01	159138	25.23	93087	31.70						
4oct121375	203095	18.01	175582	25.22	97964	31.70						
4oct121377	190141	18.00	164258	25.22	94309	31.70						

10/19/2012 10:34

Page 1 of 2

Internal Standard And RT Summary

ALAB : 00107

AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #	AREA#	RT #
IS1		IS2		IS3					

IS1 = Fluorobenzene (IS1)
 IS2 = Chlorobenzene-d5(IS2)
 IS3 = 1,4-Dichlorobenzene-d4(IS3)
 AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT
 # Column used to flag internal standard area values with an asterisk.
 * Values outside QC limits.
 D Indicates the peak is not "identified".

ALAB: 00198

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Page 2 of 2

Internal Standard And RT Summary

524 Volatile Organics

Associated Labs

GCMS # 4

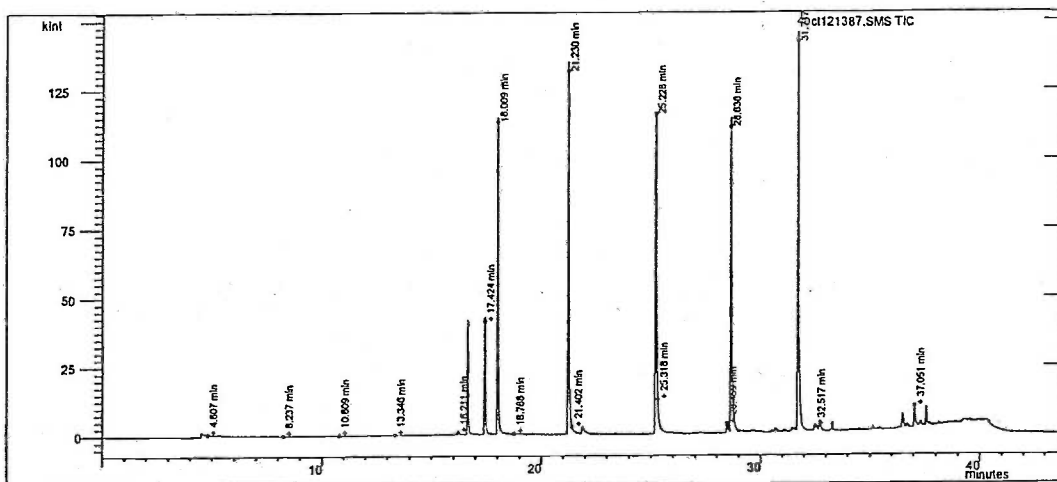
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SMS

Sample Name: method blk 1

Acquisition Date: 10/19/2012 6:48:20 AM

Inj. Notes: w#12090702

Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	920	188573	25.000
25.228	117.0	Chlorobenzene-d5(IS2)	996	158103	25.000
31.717	152.0	1,4-Dichlorobenzene-d4(IS3)	966	86168	25.000
4.807	85.0	Dichlorodifluoromethane	740		N/A
5.446	50.0+52.0+49.0	Chloromethane	519		N/A
5.812	62.0+64.0	Vinyl Chloride	790		N/A
7.014	94.0+45.0	Bromomethane	674		N/A
7.411	45.0+49.0	Chloroethane	420		N/A
8.237	101.0+103.0	Trichlorofluoromethane	719		N/A
9.497	59.0	Ethyl ether	736		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	525		N/A
11.202	56.0	Acrolein	529		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	571		N/A
10.845	142.0	Iodomethane	878		N/A
10.809	43.0+58.0	Acetone	836	346	1.075
11.515	45.0	Isopropyl alcohol (2-Propanol)	657		N/A
10.957	76.0	Carbon disulfide	548		N/A
13.346	41.0	Acetonitrile	667		N/A
11.623	41.0+39.0	Allyl chloride	702		N/A
12.124	84.0+49.0+86.0	Methylene Chloride	892	421	0.068
12.615	59.0	tert-Butanol	613		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	611		N/A
12.806	61.0+96.0	t-1,2-Dichloroethene	646	110	0.017

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4oct121387.SMS

ALAB: 00199

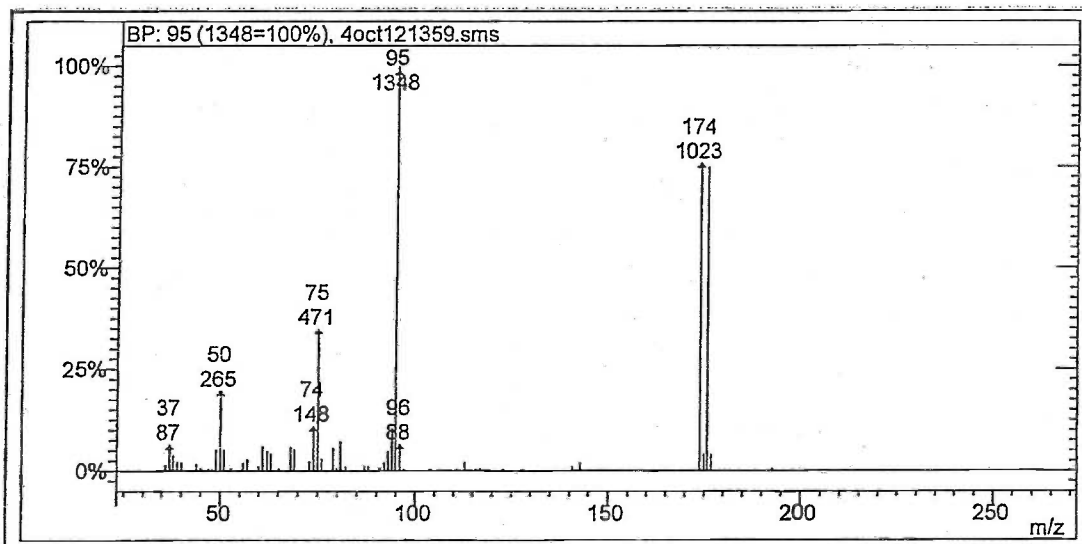
CONFIDENTIAL

LMC-PET-00001483

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	454		N/A
13.360	41.0	n-Hexane	523		N/A
14.068	63.0	1,1-Dichloroethane	636		N/A
14.298	43.0	Vinyl acetate	481		N/A
14.055	45.0	Isopropyl ether	654		N/A
14.201	53.0	Chloroprene	536		N/A
14.968	59.0	Ethyl-tert-butyl-ether	423		N/A
15.440	77.0+41.0	2,2-Dichloropropane	693		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	703		N/A
15.719	43.0+72.0	2-Butanone (MEK)	500		N/A
15.948	54.0	Propionitrile	422		N/A
16.126	130.0+49.0	Bromochloromethane	774	54	0.015
17.528	39.0	Methacrylonitrile	378		N/A
16.285	83.0+85.0	Chloroform	698	106	0.013
16.584	97.0+99.0	1,1,1-Trichloroethane	510		N/A
16.651	111.0	Dibromofluoromethane (Surr1)	986	41299	26.586
16.861	117.0+119.0	Carbon Tetrachloride	613		N/A
16.211	42.0+72.0	Tetrahydrofuran	728	662	2.115
16.949	75.0+39.0	1,1-Dichloropropene	682		N/A
17.417	78.0	Benzene	426	165	0.026
17.424	65.0	1,2-Dichloroethane-d4 (Surr2)	987	64074	30.360
17.467	62.0+64.0	1,2-Dichloroethane	334	29	0.007
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	539		N/A
18.768	130.0+132.0+95.0	Trichloroethene	793	168	0.021
19.397	41.0	Methyl methacrylate	652		N/A
19.273	63.0+65.0	1,2-Dichloropropane	761		N/A
19.543	93.0+174.0	Dibromomethane	811		N/A
20.281	88.0	1,4-Dioxane	470		N/A
19.821	83.0+85.0	Bromodichloromethane	603		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	771		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	676		N/A
21.126	43.0+58.0	4-Methyl-2-pentanone	512	20	0.012
21.230	98.0	Toluene-d8 (Surr3)	997	208351	24.626
21.402	92.0+91.0	Toluene	341	329	0.016
22.013	69.0	Ethyl methacrylate	516		N/A
23.027	43.0+58.0+100.0	2-Hexanone	537		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	389		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	688		N/A
22.669	164.0+166.0	Tetrachloroethene	735		N/A
23.022	76.0+41.0	1,3-Dichloropropane	670	191	0.043
17.440	41.0	Isobutyl alcohol	518		N/A
23.570	129.0+127.0	Dibromochloromethane	717	14	0.004
24.009	107.0+109.0	1,2-Dibromoethane	808	34	0.009
25.749	91.0	1-Chlorohexane	721		N/A
25.318	112.0+114.0	Chlorobenzene	306	606	0.047
25.481	106.0+91.0	Ethylbenzene	769		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	530		N/A
25.823	106.0+91.0	p,m-Xylenes	849		N/A
27.024	106.0+91.0	o-Xylene	872		N/A
27.259	104.0+78.0	Styrene	838	443	0.033
27.810	171.0+173.0+175.0	Bromoform	731	22	0.010

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.042	105.0+120.0	Isopropylbenzene	943	309	0.013
28.459	75.0	cis-1,4-Dichloro-2-butene	635	47	0.126
28.636	95.0	p-Bromofluorobenzene (Surr4)	998	107908	25.231
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	808		N/A
29.044	77.0+158.0	Bromobenzene	940		N/A
29.148	91.0+120.0	n-Propylbenzene	920		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	633		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	653		N/A
29.517	91.0+126.0	2-Chlorotoluene	889		N/A
29.676	105.0+120.0	1,3,5-Trimethylbenzene	888	2433	0.094
29.521	91.0+126.0	4-Chlorotoluene	882		N/A
30.485	119.0+91.0	tert-Butylbenzene	776		N/A
30.695	105.0+120.0	1,2,4-Trimethylbenzene	992	3172	0.128
31.431	117.0	Pentachloroethane	568		N/A
31.088	105.0+134.0	sec-Butylbenzene	931	1796	0.070
30.512	119.0	4-Isopropyltoluene	766	727	0.039
31.556	146.0+148.0	1,3-Dichlorobenzene	953	1319	0.099
31.557	146.0+148.0	1,4-Dichlorobenzene	941	1376	0.103
32.112	91.0	Benzyl Chloride	488		N/A
32.517	91.0+134.0	n-Butylbenzene	949	3821	0.191
32.750	146.0+148.0	1,2-Dichlorobenzene	927	1451	0.116
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	843		N/A
37.580	180.0+182.0	1,2,4-Trichlorobenzene	993	8974	1.051
36.683	225.0+226.0	Hexachlorobutadiene	937		N/A
37.051	128.0	Naphthalene	996	11273	1.780
37.580	180.0+182.0	1,2,3-Trichlorobenzene	994	8337	1.007

BFB 8260B Report



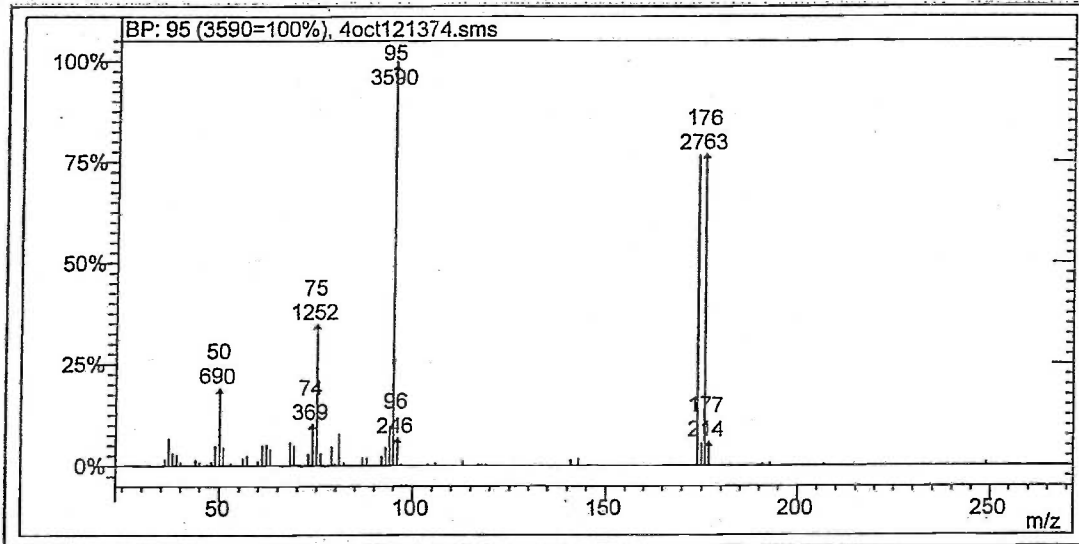
Lab File ID: 4oct121359.sms

Injection Date: 10/18/2012

Injection Time: 7:47

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.66	PASS
75	30-60% of m/z 95	34.94	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.53	PASS
173	<2% of m/z 174	0.20	PASS
174	>50% of m/z 95	75.89	PASS
175	5-9% of m/z 174	5.47	PASS
176	>95% but <101% of m/z 174	98.63	PASS
177	5-9% of m/z 176	5.25	PASS

BFB 8260B Report



Lab File ID: 4oct121374.sms

Injection Date: 10/18/2012

Injection Time: 20:05

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	19.22	PASS
75	30-60% of m/z 95	34.87	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.85	PASS
173	<2% of m/z 174	0.15	PASS
174	>50% of m/z 95	76.55	PASS
175	5-9% of m/z 174	7.17	PASS
176	>95% but <101% of m/z 174	100.55	PASS
177	5-9% of m/z 176	7.75	PASS

Associated Labs QC Batch Bench Sheet

QC Batch ID: QC1130739

8260B Alab Low
EPA 8260B
VOA-MS (group)
10/19/2012
nicollez

Test:
Method:
Instrument:
Analysis Date:
Analysis Employee:

Created Date: 10/22/2012

Created By: nicollez

Matrix: Water

QC Batch ID: QC1130739
Created Date: 10/22/2012
Created By: nicollez
Matrix: Water

Seq #	Sample ID	Customer Sample ID	QC Source	Sur Added	Spk Added	Init Wt/Vol	Final Vol	Extraction Date	Extraction Time	Comments
0	Method Blank_1									
1	LCS_1									
2	311963-009	MW-11	311963-009							
3	311995-004	B-6-CW03R	311995-004							
4	311995-006	B-1-CW28	311995-006							
5	311995-008	A-1-CW09	311995-008							
6	312094-001	TB101312	312094-001							
7	312094-002	B-1-CW20	312094-002							
8	312094-003	C-1-CW06	312094-003							
9	312094-004	B-5-CW02	312094-004							
10	312094-005	M-W-6	312094-005							
11	312094-006	C-1-CW08	312094-006							
12	312205-001	TB101612	312205-001							
13	312205-002	MW-8	312205-002							
14	312205-004	MW-5	312205-004							
15	312205-006	B-6-CW16	312205-006							
16	312205-007	EB101612 Equip Blank	312205-007							

Initial Calib STD: w#12090602
Calib Check STD: w#12090602
Internal STD: w#12090702
Surrogate STD: w#12090702
LCS STD: w#12090604
MSS STD: w#12090604

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:

QC Batch ID: QC1130739

Test: 8260B Alab Low
Method: EPA 8260B
Instrument: VOA-MS (group)
Analysis Date: 10/19/2012
Analysis Employee: nicollez

Created Date: 10/22/2012
Created By: nicollez
Matrix: Water

Seq#	Sample ID	Customer Sample ID	QC Source	Sur Added	Spk Added	Init Wt/Vol	Final Vol	Extraction Date	Time	Comments
17	MS_1		312094-002							
18	MSD_1		312094-002							

Initial Calib STD: w#12090602
Calib Check STD: w#12090602
Internal STD: w#12090702
Surrogate STD: w#12090702
LCS STD: w#12090604
MS STD: w#12090604

Solvent Manufacturer and Lot:
Sand Manufacturer and Lot:
Na2SO4 Manufacturer and Lot:
Surrogate Lot:
Spike Lot:
Prep By Signature:

Varian Star Workstation - RecalcList Sat Oct 20 11:32:37 2012

RecalcList: C:\VarianWS\8260list.rcl

Created: Wed Dec 01 10:37:29 2004
Modified: Sat Oct 20 11:32:32 2012

QC 1130739

Line	Sample Name	Data File
1	10ppb BFB tune 1	c:\varianws\data\4oct12\4oct121381.SMS
2	50ppb 8260 ccv 1	c:\varianws\data\4oct12\4oct121382.SMS
3	25ppb 524.2 ccv 1	c:\varianws\data\4oct12\4oct121383.SMS
4	50ppb 8260 lcs 1	c:\varianws\data\4oct12\4oct121384.SMS
5	25ppb 524.2 lcs 1	c:\varianws\data\4oct12\4oct121385.SMS
6	rinse	c:\varianws\data\4oct12\4oct121386.SMS
7	method blk 1	c:\varianws\data\4oct12\4oct121387.SMS
8	312094-001_10mL-1	c:\varianws\data\4oct12\4oct121388.SMS
9	312094-002_10mL-8	c:\varianws\data\4oct12\4oct121389.SMS
10	312094-004_10mL-5	c:\varianws\data\4oct12\4oct121390.SMS
11	312094-005_10mL-8	c:\varianws\data\4oct12\4oct121391.SMS
12	312094-006_10mL-8	c:\varianws\data\4oct12\4oct121392.SMS
13	312094-003_1mL-8	c:\varianws\data\4oct12\4oct121393.SMS
14	311963-009_10mL-2	c:\varianws\data\4oct12\4oct121394.SMS
15	312094-003_10mL-8	c:\varianws\data\4oct12\4oct121395.SMS
16	MSD_312094-002_10mL	c:\varianws\data\4oct12\4oct121396.SMS
17	MSD_312094-002_10mL	c:\varianws\data\4oct12\4oct121397.SMS
18	50ppb 8260 ccv 1	c:\varianws\data\4oct12\4oct121398.SMS
19	10ppb BFB tune 2	c:\varianws\data\4oct12\4oct121399.SMS
20	25ppb 524.2 ccv 2	c:\varianws\data\4oct12\4oct121400.SMS
21	25ppb 524.2 lcs 2	c:\varianws\data\4oct12\4oct121401.SMS
22	rinse	c:\varianws\data\4oct12\4oct121402.SMS
23	method blk 2	c:\varianws\data\4oct12\4oct121403.SMS
24	312205-001_10mL-1	c:\varianws\data\4oct12\4oct121404.SMS
25	312205-007_10mL-1	c:\varianws\data\4oct12\4oct121405.SMS
26	311995-004_10mL-4	c:\varianws\data\4oct12\4oct121406.SMS
27	311995-006_10mL-2	c:\varianws\data\4oct12\4oct121407.SMS
28	311995-008_10mL-7	c:\varianws\data\4oct12\4oct121408.SMS
29	312205-006_10mL-7	c:\varianws\data\4oct12\4oct121409.SMS
30	312205-002_10mL-1	c:\varianws\data\4oct12\4oct121410.SMS
31	312205-004_10mL-1	c:\varianws\data\4oct12\4oct121411.SMS
32	312080-011_1mL-1	c:\varianws\data\4oct12\4oct121412.SMS
33	312080-012_1mL-2	c:\varianws\data\4oct12\4oct121413.SMS
34	20ppb 524.2 ccv 3	c:\varianws\data\4oct12\4oct121414.SMS

#4 10/19 ~ 10/20/12

524.2

ALAB: 00206

CONFIDENTIAL

LMC-PET-00001490

WATER VOLATILE SURROGATE RECOVERY

EPA Method 8260A

Lab Name: Associated Labs

Contract:

Lab Code: # 4

Case No.:

SAS No:

SDG No:

EPA Sample No	S1 #	S2 #	S3 #	S4 #
4oct121381	0 D	119	18	* 896 *
4oct121382	201	* 213	* 196	* 202 *
4oct121383	103	104	100	101
4oct121384	200	* 217	* 199	* 194 *
4oct121385	103	104	103	104
4oct121386	110	121	102	108
4oct121387	106	121	99	101
4oct121388	105	113	102	106
4oct121389	100	107	103	110
4oct121390	104	115	101	109
4oct121391	101	111	105	105
4oct121392	104	114	105	110
4oct121393	104	109	103	108
4oct121394	101	111	102	105
4oct121395	103	113	103	109
4oct121396	101	109	103	95
4oct121397	105	113	100	95
4oct121398	201	* 215	* 201	* 193 *
4oct121399	0 D	0 D	43	* 580 *
4oct121400	102	103	101	99
4oct121401	100	101	103	100

TOTAL OUT

2
4
0
4
0
0
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0
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0
0
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0
0
0
0
4
2
0
0

10/20/2012 12:21

Page 1 of 2

Surrogate Recovery

ALAB: 00207

EPA Sample No	S1 #	S2 #	S3 #	S4 #
4oct121402	104	111	105	107
4oct121403	108	126	100	109
4oct121404	103	112	102	106
4oct121405	103	114	100	105
4oct121406	104	114	103	109
4oct121407	104	110	102	111
4oct121408	102	110	103	111
4oct121409	104	106	102	114
4oct121410	102	110	76	106
4oct121411	104	111	101	109
4oct121412	100	104	106	110
4oct121413	97	105	101	111
4oct121414	104	111	95	99
Replicates:	34	34	34	34
Average:	108	120	109	242
StdDev:	42	40	38	514

S1 = Dibromofluoromethane (Surr1)
 S2 = 1,2-Dichloroethane-d4 (Surr2)
 S3 = Toluene-d8 (Surr3)
 S4 = p-Bromofluorobenzene (Surr4)
 # Column to be used to flag recovery values.
 * Values outside of contract required QC Limits
 D System Monitoring Compound diluted out

QC Limits
 (70 - 135)
 (70 - 135)
 (70 - 135)
 (70 - 135)

TOTAL OUT
 0
 0
 0
 0
 0
 0
 0
 0
 0
 0
 0
 0
 0

524 Volatile Organics

Associated Labs

GCMS # 4

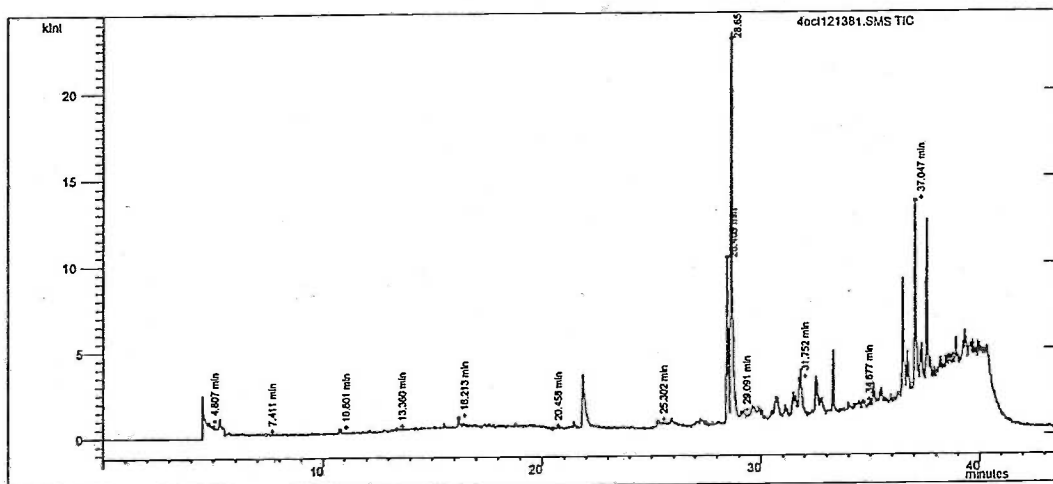
Data File Name: C:\Varian\WS\data\4Oct12\4oct121381. Calc Method: C:\Varian\WS\methods\ms4_524_10181
SMS

Sample Name: 10ppb BFB tune 1

Acquisition Date: 10/19/2012 1:51:02 AM

Inj. Notes: w#12062102

Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.003	96.0+70.0	Fluorobenzene (IS1)	725		N/A
25.302	117.0	Chlorobenzene-d5(IS2)	850	406	25.000
31.752	152.0	1,4-Dichlorobenzene-d4(IS3)	959	1047	25.000
4.807	85.0	Dichlorodifluoromethane	751		N/A
5.446	50.0+52.0+49.0	Chloromethane	384		N/A
5.812	62.0+64.0	Vinyl Chloride	784		N/A
7.014	94.0+45.0	Bromomethane	666		N/A
7.411	45.0+49.0	Chloroethane	424		N/A
8.237	101.0+103.0	Trichlorofluoromethane	848		N/A
9.497	59.0	Ethyl ether	667		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	543		N/A
11.202	56.0	Acrolein	723		N/A
10.311	96.0+61.0+98.0	1,1-Dichloroethene	566	19	19.281
10.845	142.0	Iodomethane	775		N/A
10.801	43.0+58.0	Acetone	855	657	656.797
11.515	45.0	Isopropyl alcohol (2-Propanol)	698		N/A
10.957	76.0	Carbon disulfide	550		N/A
13.346	41.0	Acetonitrile	907		N/A
11.623	41.0+39.0	Allyl chloride	680		N/A
12.137	84.0+49.0+86.0	Methylene Chloride	889	362	362.319
12.615	59.0	tert-Butanol	452		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	752		N/A
12.809	61.0+96.0	1,1,2-Dichloroethene	700	140	139.905

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4oct121381.SMS

ALAB: 00209

CONFIDENTIAL

LMC-PET-00001493

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	646		N/A
13.360	41.0	n-Hexane	641		N/A
14.068	63.0	1,1-Dichloroethane	665		N/A
14.298	43.0	Vinyl acetate	491		N/A
14.055	45.0	Isopropyl ether	744		N/A
14.201	53.0	Chloroprene	728		N/A
14.968	59.0	Ethyl-tert-butyl-ether	347		N/A
15.440	77.0+41.0	2,2-Dichloropropane	663		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	831		N/A
15.719	43.0+72.0	2-Butanone (MEK)	510		N/A
15.948	54.0	Propionitrile	476		N/A
16.132	130.0+49.0	Bromochloromethane	711	91	91.362
17.528	39.0	Methacrylonitrile	542		N/A
16.300	83.0+85.0	Chloroform	754	92	92.097
16.584	97.0+99.0	1,1,1-Trichloroethane	551		N/A
16.648	111.0	Dibromofluoromethane (Surr1)	255		N/A
16.861	117.0+119.0	Carbon Tetrachloride	676		N/A
16.213	42.0+72.0	Tetrahydrofuran	693	467	467.027
16.949	75.0+39.0	1,1-Dichloropropene	829		N/A
17.391	78.0	Benzene	843	131	130.963
17.447	65.0	1,2-Dichloroethane-d4 (Surr2)	698	30	29.862
17.626	62.0+64.0	1,2-Dichloroethane	683	74	73.983
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	693		N/A
18.767	130.0+132.0+95.0	Trichloroethene	865	178	8.588
19.397	41.0	Methyl methacrylate	665		N/A
19.273	63.0+65.0	1,2-Dichloropropane	753		N/A
19.563	93.0+174.0	Dibromomethane	744	75	11.279
20.281	88.0	1,4-Dioxane	353		N/A
19.841	83.0+85.0	Bromodichloromethane	630	50	3.312
20.458	63.0+43.0	2-Chloroethyl vinyl ether	477	17	24.793
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	614		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	628		N/A
21.301	98.0	Toluene-d8 (Surr3)	813	97	4.484
21.369	92.0+91.0	Toluene	913		N/A
22.013	69.0	Ethyl methacrylate	552		N/A
23.027	43.0+58.0+100.0	2-Hexanone	594		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	285		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	662		N/A
22.669	164.0+166.0	Tetrachloroethene	758		N/A
22.981	76.0+41.0	1,3-Dichloropropane	868		N/A
17.440	41.0	Isobutyl alcohol	415		N/A
23.543	129.0+127.0	Dibromochloromethane	652		N/A
24.038	107.0+109.0	1,2-Dibromoethane	747	84	8.523
25.749	91.0	1-Chlorohexane	703		N/A
25.374	112.0+114.0	Chlorobenzene	795	210	6.417
25.481	106.0+91.0	Ethylbenzene	757		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	660		N/A
25.823	106.0+91.0	p,m-Xylenes	920		N/A
27.024	106.0+91.0	o-Xylene	829		N/A
27.242	104.0+78.0	Styrene	888	275	1.706
27.788	171.0+173.0+175.0	Bromoform	689	40	1.503

ALAB: 00210

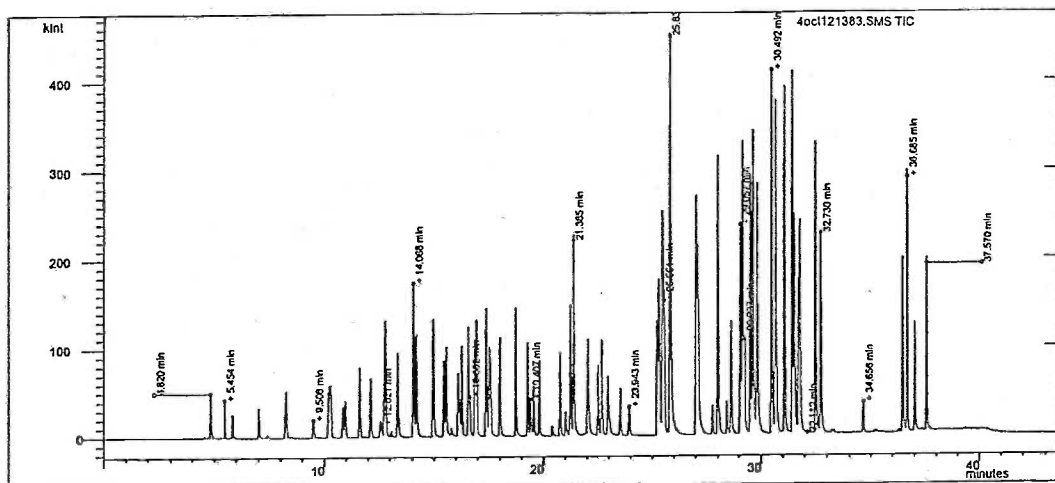
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.053	105.0+120.0	Isopropylbenzene	838	332	1.153
28.469	75.0	cis-1,4-Dichloro-2-butene	612	220	48.230
28.652	95.0	p-Bromofluorobenzene (Surr4)	998	24630	474.057
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	701		N/A
29.091	77.0+158.0	Bromobenzene	911	475	3.810
29.148	91.0+120.0	n-Propylbenzene	877		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	648		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	648		N/A
29.517	91.0+126.0	2-Chlorotoluene	816		N/A
29.671	105.0+120.0	1,3,5-Trimethylbenzene	920	2608	8.294
29.521	91.0+126.0	4-Chlorotoluene	861		N/A
30.485	119.0+91.0	tert-Butylbenzene	768		N/A
30.696	105.0+120.0	1,2,4-Trimethylbenzene	986	2242	7.446
31.431	117.0	Pentachloroethane	433		N/A
31.097	105.0+134.0	sec-Butylbenzene	936	1829	5.859
30.505	119.0	4-Isopropyltoluene	797	368	1.611
31.570	146.0+148.0	1,3-Dichlorobenzene	918	1021	6.337
31.574	146.0+148.0	1,4-Dichlorobenzene	927	976	6.029
32.112	91.0	Benzyl Chloride	678		N/A
32.527	91.0+134.0	n-Butylbenzene	971	3865	15.919
32.754	146.0+148.0	1,2-Dichlorobenzene	961	1820	11.923
34.677	75.0+157.0	1,2-Dibromo-3-chloropropane	806	268	16.228
37.578	180.0+182.0	1,2,4-Trichlorobenzene	994	10819	104.351
36.683	225.0+226.0	Hexachlorobutadiene	950		N/A
37.047	128.0	Naphthalene	997	16233	211.011
37.577	180.0+182.0	1,2,3-Trichlorobenzene	994	10350	102.899

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: C:\Varian\WS\data\4Oct12\4oct121383. Calc Method: C:\Varian\WS\methods\ms4_524_10181
SMS
Sample Name: 25ppb 524.2 ccv 1 Acquisition Date: 10/19/2012 3:28:56 AM
Inj. Notes: w#12090602 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	890	189709	25.000
25.231	117.0	Chlorobenzene-d5(IS2)	995	161370	25.000
31.712	152.0	1,4-Dichlorobenzene-d4(IS3)	963	90615	25.000
4.820	85.0	Dichlorodifluoromethane	956	85179	26.081
5.454	50.0+52.0+49.0	Chloromethane	990	78525	27.274
5.821	62.0+64.0	Vinyl Chloride	998	72144	25.233 ✓
7.021	94.0+45.0	Bromomethane	936	26873	24.179
7.403	45.0+49.0	Chloroethane	762	4581	24.215
8.252	101.0+103.0	Trichlorofluoromethane	979	185663	25.895
9.508	59.0	Ethyl ether	979	17286	26.608
10.223	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	919	109129	25.665
11.202	56.0	Acrolein	550		N/A
10.301	96.0+61.0+98.0	1,1-Dichloroethene	948	139906	25.397 ✓
10.857	142.0	Iodomethane	939	102854	25.525
10.798	43.0+58.0	Acetone	900	7616	23.510
11.515	45.0	Isopropyl alcohol (2-Propanol)	750		N/A
10.968	76.0	Carbon disulfide	721	110487	24.261
13.363	41.0	Acetonitrile	795	106814	26.519
11.633	41.0+39.0	Allyl chloride	959	206722	25.672
12.131	84.0+49.0+86.0	Methylene Chloride	892	144415	23.247
12.621	59.0	tert-Butanol	952	16678	123.873
12.767	73.0	Methyl-tert-butyl-ether (MTBE)	981	87000	24.628 ✓
12.807	61.0+96.0	t-1,2-Dichloroethene	978	169041	25.611

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4oct121383.SMS

ALAB : 00212

CONFIDENTIAL

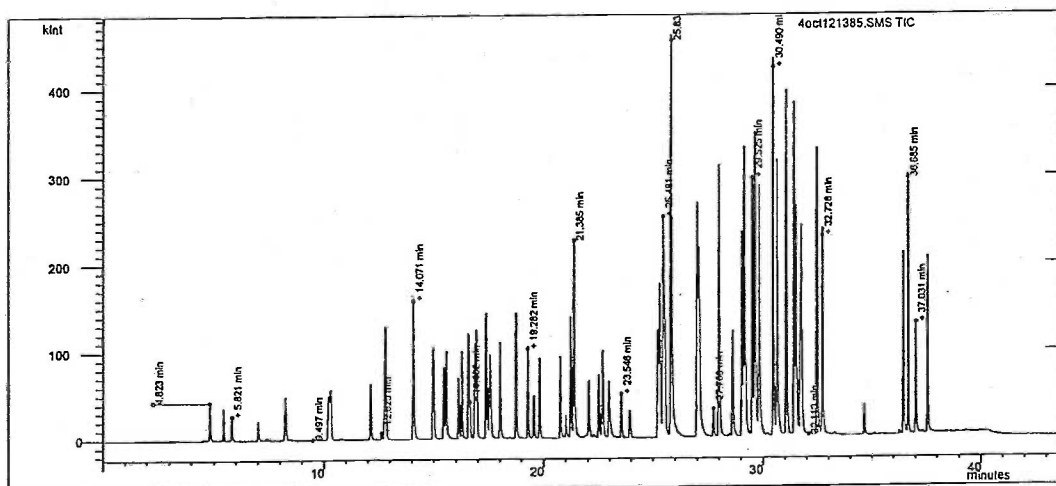
LMC-PET-00001496

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.073	53.0	Acrylonitrile	990	5156	23.629
13.364	41.0	n-Hexane	997	106878	26.468
14.075	63.0	1,1-Dichloroethane	980	116738	27.057
14.298	43.0	Vinyl acetate	149		N/A
14.068	45.0	Isopropyl ether	954	171209	27.643
14.213	53.0	Chloroprene	995	121873	26.642
14.971	59.0	Ethyl-tert-butyl-ether	988	188486	26.705
15.450	77.0+41.0	2,2-Dichloropropane	998	128432	22.138
15.558	61.0+96.0	c-1,2-Dichloroethene	988	170337	27.054
15.659	43.0+72.0	2-Butanone (MEK)	778	13430	25.364
15.938	54.0	Propionitrile	845	2144	23.812
16.119	130.0+49.0	Bromochloromethane	997	98978	26.397
17.538	39.0	Methacrylonitrile	328	26469	28.070
16.279	83.0+85.0	Chloroform	995	205501	25.582 ✓
16.581	97.0+99.0	1,1,1-Trichloroethane	997	249538	25.322
16.652	111.0	Dibromofluoromethane (Surr1)	985	40319	25.800
16.874	117.0+119.0	Carbon Tetrachloride	990	203783	25.437
16.176	42.0+72.0	Tetrahydrofuran	666	7809	24.807
16.950	75.0+39.0	1,1-Dichloropropene	998	153849	24.964
17.383	78.0	Benzene	992	159274	24.700 ✓
17.425	65.0	1,2-Dichloroethane-d4 (Surr2)	976	55138	25.970
17.589	62.0+64.0	1,2-Dichloroethane	981	116558	27.988
17.540	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	181064	26.205
18.745	130.0+132.0+95.0	Trichloroethene	996	209978	25.441 ✓
19.407	41.0	Methyl methacrylate	998	35650	29.695
19.283	63.0+65.0	1,2-Dichloropropane	998	56857	26.655 ✓
19.551	93.0+174.0	Dibromomethane	992	69684	26.295
20.281	88.0	1,4-Dioxane	468		N/A
19.824	83.0+85.0	Bromodichloromethane	998	151665	25.441
20.404	63.0+43.0	2-Chloroethyl vinyl ether	692	6912	25.268
20.750	75.0+77.0+39.0	c-1,3-Dichloropropene	955	165273	26.313
21.017	43.0+58.0	4-Methyl-2-pentanone	989	47407	28.109
21.233	98.0	Toluene-d8 (Surr3)	996	215731	24.982
21.385	92.0+91.0	Toluene	998	508598	24.974 ✓
22.029	69.0	Ethyl methacrylate	989	29880	25.078
23.048	43.0+58.0+100.0	2-Hexanone	993	31215	26.193
22.057	75.0+77.0	t-1,3-Dichloropropene	983	76390	25.701
22.518	97.0+99.0	1,1,2-Trichloroethane	998	82557	26.717
22.685	164.0+166.0	Tetrachloroethene	997	23278	25.405 ✓
22.979	76.0+41.0	1,3-Dichloropropane	997	119751	26.460
17.440	41.0	Isobutyl alcohol	247		N/A
23.546	129.0+127.0	Dibromochloromethane	997	102460	26.222
23.943	107.0+109.0	1,2-Dibromoethane	998	105633	26.835
25.749	91.0	1-Chlorohexane	986		N/A
25.313	112.0+114.0	Chlorobenzene	991	327214	25.085 ✓
25.481	106.0+91.0	Ethylbenzene	996	606645	25.211 ✓
25.551	131.0+117.0	1,1,1,2-Tetrachloroethane	996	127843	26.601 ✓
25.834	106.0+91.0	p,m-Xylenes	998	1.154E6	50.198 ✓
27.029	106.0+91.0	o-Xylene	997	588039	25.274
27.105	104.0+78.0	Styrene	995	368825	26.382
27.767	171.0+173.0+175.0	Bromoform	989	59031	25.619

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.014	105.0+120.0	Isopropylbenzene	992	623337	25.051
28.440	75.0	cis-1,4-Dichloro-2-butene	996	9288	23.509
28.637	95.0	p-Bromofluorobenzene (Surr4)	998	113478	25.231 ✓
29.072	83.0+85.0	1,1,2,2-Tetrachloroethane	996	90432	25.562
29.057	77.0+158.0	Bromobenzene	994	286893	26.595
29.164	91.0+120.0	n-Propylbenzene	996	724472	24.973
29.237	75.0	trans-1,4-Dichloro-2-butene	990	47736	26.176
29.235	75.0+110.0	1,2,3-Trichloropropane	981	62663	25.876
29.526	91.0+126.0	2-Chlorotoluene	997	461130	24.992
29.644	105.0+120.0	1,3,5-Trimethylbenzene	997	661825	24.313
29.527	91.0+126.0	4-Chlorotoluene	995	454089	25.433
30.492	119.0+91.0	tert-Butylbenzene	866	848830	25.382
30.666	105.0+120.0	1,2,4-Trimethylbenzene	997	617999	23.705
31.431	117.0	Pentachloroethane	420	88466	25.003
31.072	105.0+134.0	sec-Butylbenzene	992	677372	25.060
30.488	119.0	4-Isopropyltoluene	878	492393	24.918
31.530	146.0+148.0	1,3-Dichlorobenzene	996	340872	24.433
31.528	146.0+148.0	1,4-Dichlorobenzene	996	344255	24.561
32.112	91.0	Benzyl Chloride	693		N/A
32.484	91.0+134.0	n-Butylbenzene	996	467775	22.256
32.730	146.0+148.0	1,2-Dichlorobenzene	996	324560	24.562
34.656	75.0+157.0	1,2-Dibromo-3-chloropropane	976	36199	25.326
37.565	180.0+182.0	1,2,4-Trichlorobenzene	989	198290	22.093
36.685	225.0+226.0	Hexachlorobutadiene	977	132506	22.241
37.029	128.0	Naphthalene	997	164753	24.739
37.570	180.0+182.0	1,2,3-Trichlorobenzene	997	192944	22.160

Associated Labs
GCMS # 4

✓



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	919	181968	25.000
25.229	117.0	Chlorobenzene-d5(IS2)	986	153137	25.000
31.712	152.0	1,4-Dichlorobenzene-d4(IS3)	996	85676	25.000
4.823	85.0	Dichlorodifluoromethane	939	71635	22.867
5.457	50.0+52.0+49.0	Chloromethane	993	62803	22.741
5.821	62.0+64.0	Vinyl Chloride	998	73247	26.709
7.022	94.0+45.0	Bromomethane	982	18496	17.350
7.402	45.0+49.0	Chloroethane	754	3885	21.410
8.254	101.0+103.0	Trichlorofluoromethane	980	171121	24.882
9.497	59.0	Ethyl ether	561		N/A
10.224	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	925	96370	23.629
11.202	56.0	Acrolein	567		N/A
10.303	96.0+61.0+98.0	1,1-Dichloroethene	947	139154	26.335
10.862	142.0	Iodomethane	950	948	0.245
10.797	43.0+58.0	Acetone	903	6612	21.277
11.515	45.0	Isopropyl alcohol (2-Propanol)	654		N/A
10.957	76.0	Carbon disulfide	749		N/A
13.346	41.0	Acetonitrile	816		N/A
11.623	41.0+39.0	Allyl chloride	835		N/A
12.131	84.0+49.0+86.0	Methylene Chloride	862	136463	22.902
12.625	59.0	tert-Butanol	956	15542	120.350
12.772	73.0	Methyl-tert-butyl-ether (MTBE)	985	85537	25.244
12.806	61.0+96.0	1,1,2-Dichloroethene	983	170532	26.936

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	280		N/A
13.360	41.0	n-Hexane	697		N/A
14.075	63.0	1,1-Dichloroethane	971	105514	25.496
14.298	43.0	Vinyl acetate	518		N/A
14.071	45.0	Isopropyl ether	987	167396	28.177
14.201	53.0	Chloroprene	61		N/A
14.970	59.0	Ethyl-tert-butyl-ether	982	184938	27.317
15.450	77.0+41.0	2,2-Dichloropropane	998	122084	21.939
15.558	61.0+96.0	c-1,2-Dichloroethene	983	169098	28.000
15.663	43.0+72.0	2-Butanone (MEK)	603	10563	20.799
15.948	54.0	Propionitrile	343		N/A
16.123	130.0+49.0	Bromochloromethane	998	96114	26.724
17.541	39.0	Methacrylonitrile	329	25491	28.183
16.280	83.0+85.0	Chloroform	993	199458	25.886
16.582	97.0+99.0	1,1,1-Trichloroethane	997	245605	25.983
16.652	111.0	Dibromofluoromethane (Surr1)	987	38641	25.778
16.876	117.0+119.0	Carbon Tetrachloride	989	200305	26.067
16.282	42.0+72.0	Tetrahydrofuran	690	1354	4.484
16.950	75.0+39.0	1,1-Dichloropropene	997	154043	26.059
17.382	78.0	Benzene	990	160465	25.943
17.427	65.0	1,2-Dichloroethane-d4 (Surr2)	976	53016	26.032
17.589	62.0+64.0	1,2-Dichloroethane	991	108586	27.183
17.540	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	176971	26.702
18.744	130.0+132.0+95.0	Trichloroethene	995	211875	27.051
19.282	41.0	Methyl methacrylate	760	40371	35.436
19.283	63.0+65.0	1,2-Dichloropropane	998	55984	27.657
19.552	93.0+174.0	Dibromomethane	991	63936	25.423
20.281	88.0	1,4-Dioxane	458		N/A
19.822	83.0+85.0	Bromodichloromethane	997	159117	28.125
20.393	63.0+43.0	2-Chloroethyl vinyl ether	745		N/A
20.747	75.0+77.0+39.0	c-1,3-Dichloropropene	956	155553	26.097
21.016	43.0+58.0	4-Methyl-2-pentanone	993	43360	27.091
21.232	98.0	Toluene-d8 (Surr3)	996	211540	25.814
21.385	92.0+91.0	Toluene	998	523584	27.092
21.984	69.0	Ethyl methacrylate	859	1306	1.155
23.046	43.0+58.0+100.0	2-Hexanone	987	28091	24.839
22.057	75.0+77.0	t-1,3-Dichloropropene	992	72371	25.658
22.518	97.0+99.0	1,1,2-Trichloroethane	999	79356	27.062
22.684	164.0+166.0	Tetrachloroethene	997	21316	24.514
22.979	76.0+41.0	1,3-Dichloropropane	998	115336	26.854
17.440	41.0	Isobutyl alcohol	599		N/A
23.546	129.0+127.0	Dibromochloromethane	996	102943	27.761
23.944	107.0+109.0	1,2-Dibromoethane	998	100012	26.773
25.749	91.0	1-Chlorohexane	985		N/A
25.313	112.0+114.0	Chlorobenzene	992	324012	26.174
25.481	106.0+91.0	Ethylbenzene	995	606776	26.670
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	996	124446	27.387
25.833	106.0+91.0	p,m-Xylenes	998	1.178E6	54.206
27.029	106.0+91.0	o-Xylene	997	609899	27.725
27.104	104.0+78.0	Styrene	997	361006	27.312
27.769	171.0+173.0+175.0	Bromoform	987	56800	26.073

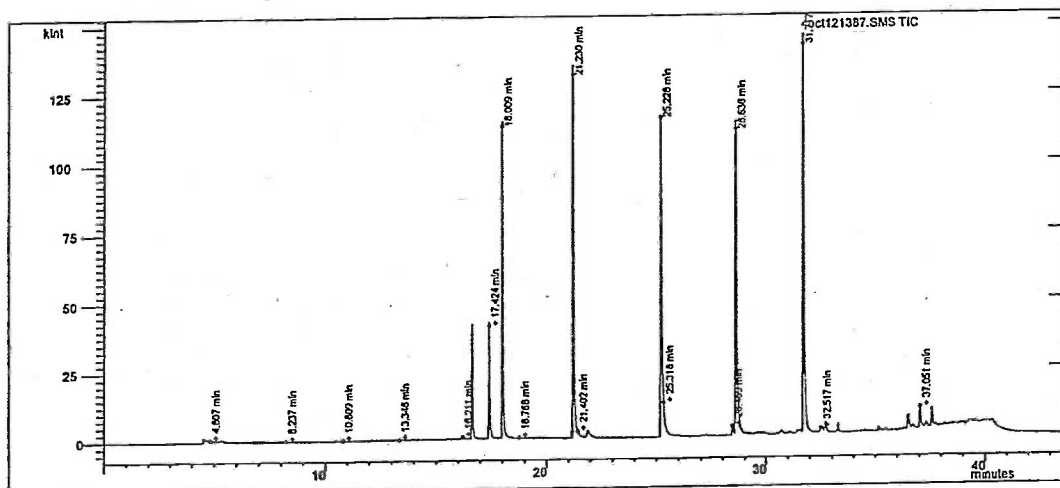
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.013	105.0+120.0	Isopropylbenzene	993	645157	27.423
28.418	75.0	cis-1,4-Dichloro-2-butene	718		N/A
28.634	95.0	p-Bromofluorobenzene (Surr4)	998	110737	26.041
29.072	83.0+85.0	1,1,2,2-Tetrachloroethane	996	85273	25.493
29.057	77.0+158.0	Bromobenzene	995	283346	27.780
29.163	91.0+120.0	n-Propylbenzene	995	723999	26.395
29.232	75.0	trans-1,4-Dichloro-2-butene	837	36592	21.222
29.231	75.0+110.0	1,2,3-Trichloropropane	950	50440	22.029
29.525	91.0+126.0	2-Chlorotoluene	998	488423	27.997
29.644	105.0+120.0	1,3,5-Trimethylbenzene	998	687702	26.720
29.525	91.0+126.0	4-Chlorotoluene	996	459978	27.248
30.490	119.0+91.0	tert-Butylbenzene	882	860372	27.211
30.664	105.0+120.0	1,2,4-Trimethylbenzene	997	582906	23.648
31.431	117.0	Pentachloroethane	429	79925	23.891
31.074	105.0+134.0	sec-Butylbenzene	990	678317	26.542
30.489	119.0	4-Isopropyltoluene	890	499324	26.725
31.528	146.0+148.0	1,3-Dichlorobenzene	996	345838	26.218
31.529	146.0+148.0	1,4-Dichlorobenzene	996	348131	26.270
32.112	91.0	Benzyl Chloride	661		N/A
32.482	91.0+134.0	n-Butylbenzene	996	475156	23.911
32.728	146.0+148.0	1,2-Dichlorobenzene	995	322908	25.846
34.653	75.0+157.0	1,2-Dibromo-3-chloropropane	989	34616	25.615
37.567	180.0+182.0	1,2,4-Trichlorobenzene	986	200525	23.630
36.685	225.0+226.0	Hexachlorobutadiene	975	136698	24.268
37.031	128.0	Naphthalene	997	175535	27.878
37.568	180.0+182.0	1,2,3-Trichlorobenzene	996	198656	24.132

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: C:\VarianWS\data\4Oct12\4oct121387. Calc Method: C:\VarianWS\methods\ms4_524_10181_2_35C.mth
 Sample Name: method blk 1 Acquisition Date: 10/19/2012 6:48:20 AM
 Inj. Notes: w#12090702 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.009	96.0+70.0	Fluorobenzene (IS1)	920	188573	25.000
25.228	117.0	Chlorobenzene-d5(IS2)	996	158103	25.000
31.717	152.0	1,4-Dichlorobenzene-d4(IS3)	966	86168	25.000
4.807	85.0	Dichlorodifluoromethane	740		N/A
5.446	50.0+52.0+49.0	Chloromethane	519		N/A
5.812	62.0+64.0	Vinyl Chloride	790		N/A
7.014	94.0+45.0	Bromomethane	674		N/A
7.411	45.0+49.0	Chloroethane	420		N/A
8.237	101.0+103.0	Trichlorofluoromethane	719		N/A
9.497	59.0	Ethyl ether	736		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	525		N/A
11.202	56.0	Acrolein	529		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	571		N/A
10.845	142.0	Iodomethane	878		N/A
10.809	43.0+58.0	Acetone	836	346	1.075
11.515	45.0	Isopropyl alcohol (2-Propanol)	657		N/A
10.957	76.0	Carbon disulfide	548		N/A
13.346	41.0	Acetonitrile	667		N/A
11.623	41.0+39.0	Allyl chloride	702		N/A
12.124	84.0+49.0+86.0	Methylene Chloride	892	421	0.068
12.615	59.0	tert-Butanol	613		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	611		N/A
12.806	61.0+96.0	t-1,2-Dichloroethene	646	110	0.017

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	454		N/A
13.360	41.0	n-Hexane	523		N/A
14.068	63.0	1,1-Dichloroethane	636		N/A
14.298	43.0	Vinyl acetate	481		N/A
14.055	45.0	Isopropyl ether	654		N/A
14.201	53.0	Chloroprene	536		N/A
14.968	59.0	Ethyl-tert-butyl-ether	423		N/A
15.440	77.0+41.0	2,2-Dichloropropane	693		N/A
15.554	61.0+96.0	c-1,2-Dichloroethene	703		N/A
15.719	43.0+72.0	2-Butanone (MEK)	500		N/A
15.948	54.0	Propionitrile	422		N/A
16.126	130.0+49.0	Bromochloromethane	774	54	0.015
17.528	39.0	Methacrylonitrile	378		N/A
16.285	83.0+85.0	Chloroform	698	106	0.013
16.584	97.0+99.0	1,1,1-Trichloroethane	510		N/A
16.651	111.0	Dibromofluoromethane (Surr1)	986	41299	26.586
16.861	117.0+119.0	Carbon Tetrachloride	613		N/A
16.211	42.0+72.0	Tetrahydrofuran	728	662	2.115
16.949	75.0+39.0	1,1-Dichloropropene	682		N/A
17.417	78.0	Benzene	426	165	0.026
17.424	65.0	1,2-Dichloroethane-d4 (Surr2)	987	64074	30.360
17.467	62.0+64.0	1,2-Dichloroethane	334	29	0.007
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	539		N/A
18.768	130.0+132.0+95.0	Trichloroethene	793	168	0.021
19.397	41.0	Methyl methacrylate	652		N/A
19.273	63.0+65.0	1,2-Dichloropropane	761		N/A
19.543	93.0+174.0	Dibromomethane	811		N/A
20.281	88.0	1,4-Dioxane	470		N/A
19.821	83.0+85.0	Bromodichloromethane	603		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	771		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	676		N/A
21.126	43.0+58.0	4-Methyl-2-pentanone	512	20	0.012
21.230	98.0	Toluene-d8 (Surr3)	997	208351	24.626
21.402	92.0+91.0	Toluene	341	329	0.016
22.013	69.0	Ethyl methacrylate	516		N/A
23.027	43.0+58.0+100.0	2-Hexanone	537		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	389		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	688		N/A
22.669	164.0+166.0	Tetrachloroethene	735		N/A
23.022	76.0+41.0	1,3-Dichloropropane	670	191	0.043
17.440	41.0	Isobutyl alcohol	518		N/A
23.570	129.0+127.0	Dibromochloromethane	717	14	0.004
24.009	107.0+109.0	1,2-Dibromoethane	808	34	0.009
25.749	91.0	1-Chlorohexane	721		N/A
25.318	112.0+114.0	Chlorobenzene	306	606	0.047
25.481	106.0+91.0	Ethylbenzene	769		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	530		N/A
25.823	106.0+91.0	p,m-Xylenes	849		N/A
27.024	106.0+91.0	o-Xylene	872		N/A
27.259	104.0+78.0	Styrene	838	443	0.033
27.810	171.0+173.0+175.0	Bromoform	731	22	0.010

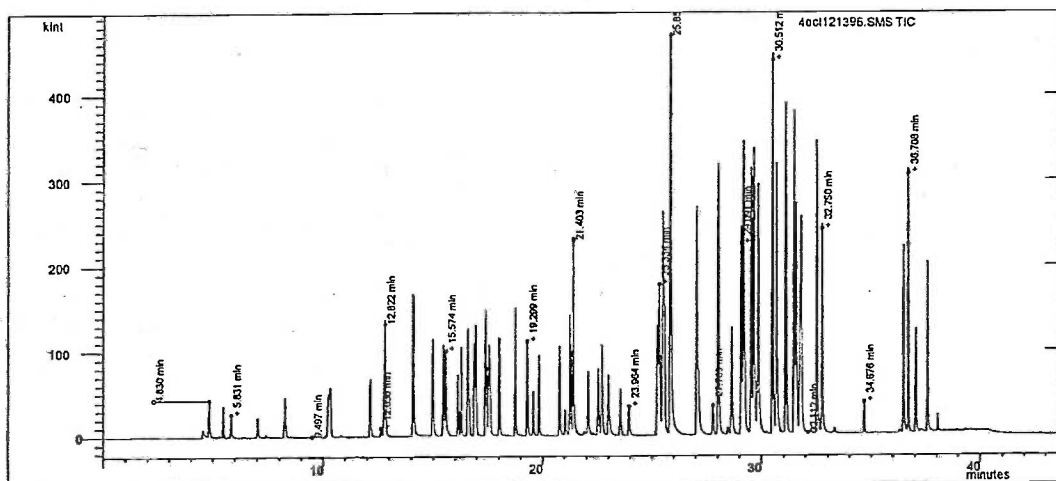
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.042	105.0+120.0	Isopropylbenzene	943	309	0.013
28.459	75.0	cis-1,4-Dichloro-2-butene	635	47	0.126
28.636	95.0	p-Bromofluorobenzene (Surr4)	998	107908	25.231
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	808		N/A
29.044	77.0+158.0	Bromobenzene	940		N/A
29.148	91.0+120.0	n-Propylbenzene	920		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	633		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	653		N/A
29.517	91.0+126.0	2-Chlorotoluene	889		N/A
29.676	105.0+120.0	1,3,5-Trimethylbenzene	888	2433	0.094
29.521	91.0+126.0	4-Chlorotoluene	882		N/A
30.485	119.0+91.0	tert-Butylbenzene	776		N/A
30.695	105.0+120.0	1,2,4-Trimethylbenzene	992	3172	0.128
31.431	117.0	Pentachloroethane	568		N/A
31.088	105.0+134.0	sec-Butylbenzene	931	1796	0.070
30.512	119.0	4-Isopropyltoluene	766	727	0.039
31.556	146.0+148.0	1,3-Dichlorobenzene	953	1319	0.099
31.557	146.0+148.0	1,4-Dichlorobenzene	941	1376	0.103
32.112	91.0	Benzyl Chloride	488		N/A
32.517	91.0+134.0	n-Butylbenzene	949	3821	0.191
32.750	146.0+148.0	1,2-Dichlorobenzene	927	1451	0.116
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	843		N/A
37.580	180.0+182.0	1,2,4-Trichlorobenzene	993	8974	1.051
36.683	225.0+226.0	Hexachlorobutadiene	937		N/A
37.051	128.0	Naphthalene	996	11273	1.780
37.580	180.0+182.0	1,2,3-Trichlorobenzene	994	8337	1.007

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121396.S Calc Method: C:\VarianWS\methods\ms4_524_10181
MS 2_35C.mth
Sample Name: MS_312094-002_10mL Acquisition Date: 10/19/2012 2:12:19 PM
Inj. Notes: w#12090604 pH<2 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.025	96.0+70.0	Fluorobenzene (IS1)	891	187192	25.000
25.249	117.0	Chlorobenzene-d5(IS2)	996	157062	25.000
31.733	152.0	1,4-Dichlorobenzene-d4(IS3)	995	91299	25.000
4.830	85.0	Dichlorodifluoromethane	934	72393	22.464
5.470	50.0+52.0+49.0	Chloromethane	989	62186	21.889
5.831	62.0+64.0	Vinyl Chloride	998	71953	25.505
7.032	94.0+45.0	Bromomethane	974	18316	16.702
7.420	45.0+49.0	Chloroethane	793	3491	18.702
8.267	101.0+103.0	Trichlorofluoromethane	980	168659	23.840
9.497	59.0	Ethyl ether	700		N/A
10.239	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	926	96813	23.075
11.202	56.0	Acrolein	555		N/A
10.318	96.0+61.0+98.0	1,1-Dichloroethene	946	138631	25.504
10.871	142.0	Iodomethane	933	579	0.146
10.812	43.0+58.0	Acetone	909	6413	20.062
11.515	45.0	Isopropyl alcohol (2-Propanol)	777		N/A
10.957	76.0	Carbon disulfide	645		N/A
13.346	41.0	Acetonitrile	856		N/A
11.623	41.0+39.0	Allyl chloride	851		N/A
12.147	84.0+49.0+86.0	Methylene Chloride	864	150082	24.484
12.638	59.0	tert-Butanol	977	18027	135.694
12.784	73.0	Methyl-tert-butyl-ether (MTBE)	981	93033	26.690
12.822	61.0+96.0	t-1,2-Dichloroethene	977	175646	26.969

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4oct121396.SMS

ALAB: 00221

CONFIDENTIAL

LMC-PET-00001505

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	579		N/A
13.360	41.0	n-Hexane	851		N/A
14.090	63.0	1,1-Dichloroethane	976	110467	25.948
14.298	43.0	Vinyl acetate	166		N/A
14.084	45.0	Isopropyl ether	986	170774	27.944
14.201	53.0	Chloroprene	61		N/A
14.985	59.0	Ethyl-tert-butyl-ether	991	192753	27.677
15.466	77.0+41.0	2,2-Dichloropropane	998	158145	27.626
15.574	61.0+96.0	c-1,2-Dichloroethene	990	175495	28.248
15.680	43.0+72.0	2-Butanone (MEK)	884	12325	23.590
15.948	54.0	Propionitrile	521		N/A
16.136	130.0+49.0	Bromochloromethane	996	99496	26.892
17.556	39.0	Methacrylonitrile	321	24376	26.198
16.296	83.0+85.0	Chloroform	996	205604	25.939
16.598	97.0+99.0	1,1,1-Trichloroethane	997	252139	25.930
16.669	111.0	Dibromofluoromethane (Surr1)	985	38759	25.135
16.892	117.0+119.0	Carbon Tetrachloride	989	199999	25.301
16.293	42.0+72.0	Tetrahydrofuran	602	763	2.456
16.965	75.0+39.0	1,1-Dichloropropene	997	155808	25.622
17.396	78.0	Benzene	994	161779	25.426
17.443	65.0	1,2-Dichloroethane-d4 (Surr2)	976	56862	27.142
17.604	62.0+64.0	1,2-Dichloroethane	985	116454	28.339
17.555	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	192806	28.280
18.760	130.0+132.0+95.0	Trichloroethene	996	207102	25.781
19.299	41.0	Methyl methacrylate	740	41350	35.389
19.298	63.0+65.0	1,2-Dichloropropane	999	57697	27.791
19.569	93.0+174.0	Dibromomethane	992	70277	27.246
20.281	88.0	1,4-Dioxane	265		N/A
19.840	83.0+85.0	Bromodichloromethane	998	167922	28.940
20.393	63.0+43.0	2-Chloroethyl vinyl ether	590		N/A
20.764	75.0+77.0+39.0	c-1,3-Dichloropropene	963	175861	28.767
21.033	43.0+58.0	4-Methyl-2-pentanone	992	48285	29.414
21.250	98.0	Toluene-d8 (Surr3)	996	216407	25.748
21.403	92.0+91.0	Toluene	998	521816	26.326
22.001	69.0	Ethyl methacrylate	755	746	0.644
23.065	43.0+58.0+100.0	2-Hexanone	990	31292	26.979
22.077	75.0+77.0	t-1,3-Dichloropropene	991	82574	28.543
22.539	97.0+99.0	1,1,2-Trichloroethane	998	82708	27.500
22.704	164.0+166.0	Tetrachloroethene	997	22584	25.323
23.000	76.0+41.0	1,3-Dichloropropane	998	125267	28.438
17.440	41.0	Isobutyl alcohol	224		N/A
23.567	129.0+127.0	Dibromochloromethane	995	108087	28.420
23.964	107.0+109.0	1,2-Dibromoethane	996	109958	28.700
25.749	91.0	1-Chlorohexane	982		N/A
25.334	112.0+114.0	Chlorobenzene	994	334984	26.385
25.503	106.0+91.0	Ethylbenzene	995	608404	25.094
25.571	131.0+117.0	1,1,1,2-Tetrachloroethane	996	125626	25.944
25.854	106.0+91.0	p,m-Xylenes	999	1.178E6	50.888
27.049	106.0+91.0	o-Xylene	997	609957	26.020
27.134	104.0+78.0	Styrene	997	119402	8.477
27.789	171.0+173.0+175.0	Bromoform	986	60386	26.011

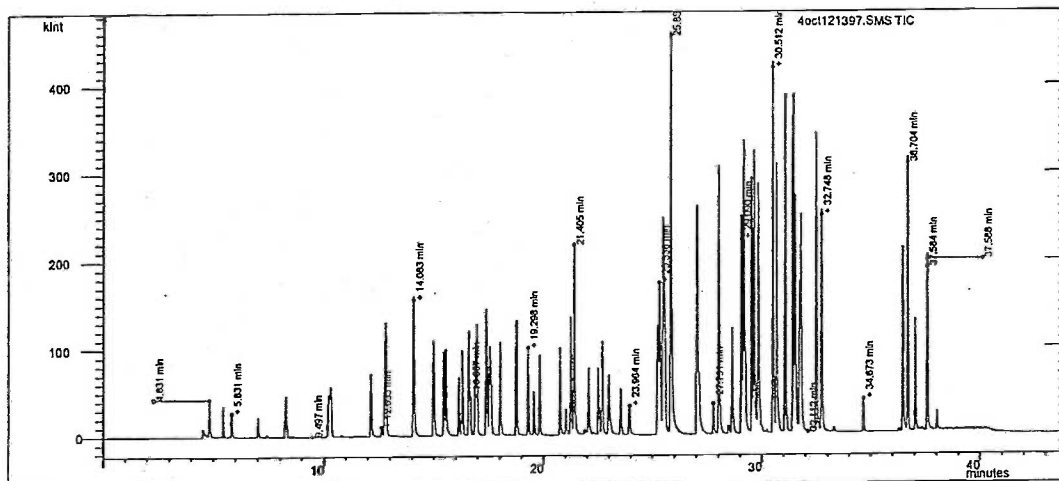
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.034	105.0+120.0	Isopropylbenzene	993	637887	25.444
28.418	75.0	cis-1,4-Dichloro-2-butene	585		N/A
28.657	95.0	p-Bromofluorobenzene (Surr4)	999	107953	23.823
29.091	83.0+85.0	1,1,2,2-Tetrachloroethane	997	95047	26.665
29.077	77.0+158.0	Bromobenzene	992	279837	25.746
29.185	91.0+120.0	n-Propylbenzene	997	729193	24.947
29.251	75.0	trans-1,4-Dichloro-2-butene	844	40250	21.905
29.252	75.0+110.0	1,2,3-Trichloropropane	984	54216	22.220
29.548	91.0+126.0	2-Chlorotoluene	997	475638	25.585
29.666	105.0+120.0	1,3,5-Trimethylbenzene	997	643379	23.458
29.548	91.0+126.0	4-Chlorotoluene	995	472991	26.293
30.512	119.0+91.0	tert-Butylbenzene	864	878040	26.059
30.687	105.0+120.0	1,2,4-Trimethylbenzene	997	560160	21.326
31.451	117.0	Pentachloroethane	436	77795	21.822
31.094	105.0+134.0	sec-Butylbenzene	992	686190	25.196
30.510	119.0	4-Isopropyltoluene	884	510880	25.660
31.551	146.0+148.0	1,3-Dichlorobenzene	996	354887	25.247
31.549	146.0+148.0	1,4-Dichlorobenzene	998	351655	24.901
32.112	91.0	Benzyl Chloride	644		N/A
32.504	91.0+134.0	n-Butylbenzene	997	486052	22.953
32.750	146.0+148.0	1,2-Dichlorobenzene	995	344835	25.901
34.676	75.0+157.0	1,2-Dibromo-3-chloropropane	976	39536	27.453
37.592	180.0+182.0	1,2,4-Trichlorobenzene	978	208023	23.003
36.708	225.0+226.0	Hexachlorobutadiene	975	140527	23.411
37.056	128.0	Naphthalene	995	158298	23.592
37.592	180.0+182.0	1,2,3-Trichlorobenzene	996	204006	23.255

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121397.S MS Calc Method: C:\VarianWS\methods\ms4_524_10181 2_35C.mth
Sample Name: MSD_312094-002_10mL Acquisition Date: 10/19/2012 3:01:37 PM
Inj. Notes: w#12090604 pH<2 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.026	96.0+70.0	Fluorobenzene (IS1)	889	176612	25.000
25.254	117.0	Chlorobenzene-d5(IS2)	994	156239	25.000
31.730	152.0	1,4-Dichlorobenzene-d4(IS3)	994	91375	25.000
4.831	85.0	Dichlorodifluoromethane	883	73456	24.160
5.465	50.0+52.0+49.0	Chloromethane	993	61404	22.909
5.831	62.0+64.0	Vinyl Chloride	997	73299	27.539
7.030	94.0+45.0	Bromomethane	975	17372	16.790
7.420	45.0+49.0	Chloroethane	801	3591	20.390
8.268	101.0+103.0	Trichlorofluoromethane	980	165720	24.828
9.497	59.0	Ethyl ether	679		N/A
10.240	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	929	95815	24.205
11.202	56.0	Acrolein	567		N/A
10.319	96.0+61.0+98.0	1,1-Dichloroethene	949	134563	26.239
10.877	142.0	Iodomethane	943	416	0.111
10.813	43.0+58.0	Acetone	892	6387	21.176
11.515	45.0	Isopropyl alcohol (2-Propanol)	804		N/A
10.957	76.0	Carbon disulfide	555		N/A
13.346	41.0	Acetonitrile	827		N/A
11.623	41.0+39.0	Allyl chloride	791		N/A
12.150	84.0+49.0+86.0	Methylene Chloride	906	166923	28.863
12.633	59.0	tert-Butanol	959	17556	140.067
12.782	73.0	Methyl-tert-butyl-ether (MTBE)	988	87197	26.515
12.824	61.0+96.0	1,1,2-Dichloroethene	981	170744	27.787

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	296		N/A
13.360	41.0	n-Hexane	791		N/A
14.091	63.0	1,1-Dichloroethane	976	104857	26.106
14.298	43.0	Vinyl acetate	643		N/A
14.083	45.0	Isopropyl ether	980	168448	29.215
14.201	53.0	Chloroprene	62		N/A
14.984	59.0	Ethyl-tert-butyl-ether	990	185386	28.214
15.466	77.0+41.0	2,2-Dichloropropane	998	149420	27.665
15.574	61.0+96.0	c-1,2-Dichloroethene	992	167340	28.549
15.683	43.0+72.0	2-Butanone (MEK)	876	11387	23.100
15.948	54.0	Propionitrile	431		N/A
16.137	130.0+49.0	Bromochloromethane	994	93490	26.783
17.554	39.0	Methacrylonitrile	333	25938	29.547
16.296	83.0+85.0	Chloroform	993	195156	26.096
16.599	97.0+99.0	1,1,1-Trichloroethane	997	243904	26.586
16.667	111.0	Dibromofluoromethane (Surr1)	991	38226	26.275
16.890	117.0+119.0	Carbon Tetrachloride	991	197442	26.473
16.294	42.0+72.0	Tetrahydrofuran	559	675	2.303
16.966	75.0+39.0	1,1-Dichloropropene	997	151862	26.469
17.399	78.0	Benzene	988	157508	26.238
17.443	65.0	1,2-Dichloroethane-d4 (Surr2)	986	55619	28.139
17.605	62.0+64.0	1,2-Dichloroethane	985	109935	28.356
17.554	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	181898	28.278
18.761	130.0+132.0+95.0	Trichloroethene	995	196768	24.623
19.298	41.0	Methyl methacrylate	718	38246	32.905
19.296	63.0+65.0	1,2-Dichloropropane	998	53572	25.940
19.567	93.0+174.0	Dibromomethane	992	67080	26.144
20.281	88.0	1,4-Dioxane	462		N/A
19.840	83.0+85.0	Bromodichloromethane	998	157543	27.294
20.393	63.0+43.0	2-Chloroethyl vinyl ether	679		N/A
20.765	75.0+77.0+39.0	c-1,3-Dichloropropene	955	167339	27.517
21.033	43.0+58.0	4-Methyl-2-pentanone	995	49664	30.414
21.251	98.0	Toluene-d8 (Surr3)	997	209956	25.112
21.405	92.0+91.0	Toluene	998	504034	25.563
22.002	69.0	Ethyl methacrylate	794	707	0.613
23.064	43.0+58.0+100.0	2-Hexanone	985	30628	26.545
22.078	75.0+77.0	t-1,3-Dichloropropene	990	76521	26.590
22.539	97.0+99.0	1,1,2-Trichloroethane	998	80598	26.940
22.704	164.0+166.0	Tetrachloroethene	998	21533	24.272
23.001	76.0+41.0	1,3-Dichloropropane	998	122077	27.860
17.440	41.0	Isobutyl alcohol	214		N/A
23.569	129.0+127.0	Dibromochloromethane	997	104552	27.635
23.964	107.0+109.0	1,2-Dibromoethane	994	107773	28.277
25.749	91.0	1-Chlorohexane	982		N/A
25.336	112.0+114.0	Chlorobenzene	992	324810	25.718
25.504	106.0+91.0	Ethylbenzene	996	600797	24.760
25.573	131.0+117.0	1,1,1,2-Tetrachloroethane	996	120886	24.944
25.855	106.0+91.0	p,m-Xylenes	998	1.153E6	49.752
27.051	106.0+91.0	o-Xylene	997	587537	25.043
27.137	104.0+78.0	Styrene	996	106059	7.523
27.791	171.0+173.0+175.0	Bromoform	986	60684	26.118

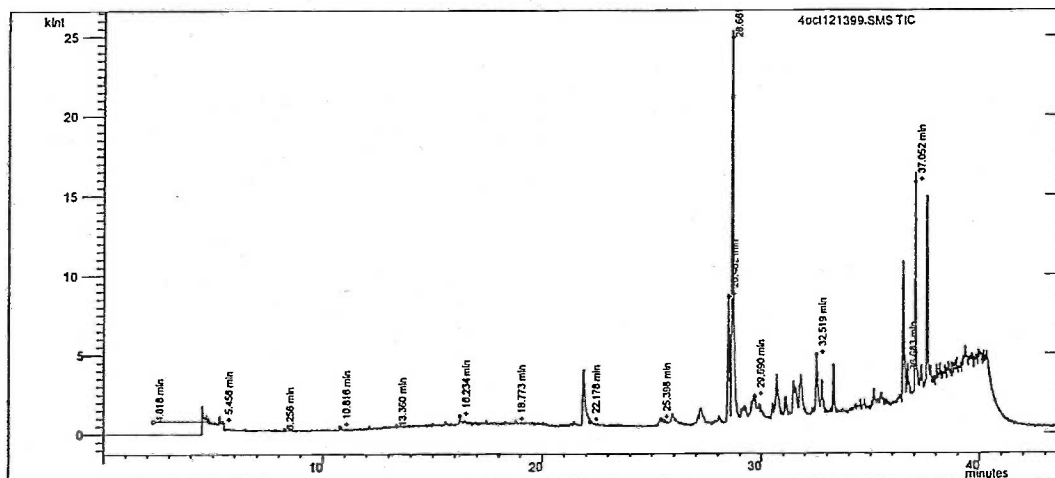
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.034	105.0+120.0	Isopropylbenzene	993	623728	24.859
28.418	75.0	cis-1,4-Dichloro-2-butene	550		N/A
28.659	95.0	p-Bromofluorobenzene (Surr4)	999	107997	23.813
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	996	96968	27.182
29.078	77.0+158.0	Bromobenzene	991	274209	25.207
29.184	91.0+120.0	n-Propylbenzene	997	715717	24.466
29.254	75.0	trans-1,4-Dichloro-2-butene	870	38680	21.034
29.254	75.0+110.0	1,2,3-Trichloropropane	994	54650	22.379
29.548	91.0+126.0	2-Chlorotoluene	998	469575	25.238
29.666	105.0+120.0	1,3,5-Trimethylbenzene	997	639173	23.286
29.547	91.0+126.0	4-Chlorotoluene	995	454986	25.271
30.512	119.0+91.0	tert-Butylbenzene	868	852339	25.275
30.686	105.0+120.0	1,2,4-Trimethylbenzene	998	525568	19.992
31.454	117.0	Pentachloroethane	422	76603	21.470
31.092	105.0+134.0	sec-Butylbenzene	990	678422	24.890
30.509	119.0	4-Isopropyltoluene	895	499020	25.043
31.549	146.0+148.0	1,3-Dichlorobenzene	996	348687	24.786
31.550	146.0+148.0	1,4-Dichlorobenzene	997	356242	25.205
32.112	91.0	Benzyl Chloride	658		N/A
32.503	91.0+134.0	n-Butylbenzene	996	490102	23.125
32.748	146.0+148.0	1,2-Dichlorobenzene	996	343362	25.769
34.673	75.0+157.0	1,2-Dibromo-3-chloropropane	983	38538	26.738
37.584	180.0+182.0	1,2,4-Trichlorobenzene	990	203022	22.432
36.704	225.0+226.0	Hexachlorobutadiene	973	136140	22.661
37.049	128.0	Naphthalene	996	162380	24.180
37.588	180.0+182.0	1,2,3-Trichlorobenzene	996	197238	22.465

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121399.S MS Calc Method: C:\VarianWS\methods\ms4_524_10181_2_35C.mth
 Sample Name: 10ppb BFB tune 2 Acquisition Date: 10/19/2012 4:39:48 PM
 Inj. Notes: w#12062102 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.044	96.0+70.0	Fluorobenzene (IS1)	696	56	25.000
25.305	117.0	Chlorobenzene-d5(IS2)	918	164	25.000
31.758	152.0	1,4-Dichlorobenzene-d4(IS3)	967	798	25.000
4.818	85.0	Dichlorodifluoromethane	755		N/A
5.456	50.0+52.0+49.0	Chloromethane	434	74	86.300
5.936	62.0+64.0	Vinyl Chloride	653	16	19.023
7.014	94.0+45.0	Bromomethane	603		N/A
7.411	45.0+49.0	Chloroethane	608		N/A
8.256	101.0+103.0	Trichlorofluoromethane	797	81	38.072
9.497	59.0	Ethyl ether	603		N/A
10.208	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	634	71	56.474
11.202	56.0	Acrolein	452		N/A
10.291	96.0+61.0+98.0	1,1-Dichloroethene	744	51	30.935
10.845	142.0	Iodomethane	893		N/A
10.816	43.0+58.0	Acetone	818	576	5981.531
11.515	45.0	Isopropyl alcohol (2-Propanol)	672		N/A
10.957	76.0	Carbon disulfide	717		N/A
13.346	41.0	Acetonitrile	845		N/A
11.623	41.0+39.0	Allyl chloride	841		N/A
12.145	84.0+49.0+86.0	Methylene Chloride	854	478	258.857
12.615	59.0	tert-Butanol	569		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	699		N/A
12.823	61.0+96.0	1,1,2-Dichloroethene	788	152	77.619

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	400		N/A
13.360	41.0	n-Hexane	644		N/A
14.068	63.0	1,1-Dichloroethane	570		N/A
14.298	43.0	Vinyl acetate	355		N/A
14.055	45.0	Isopropyl ether	573		N/A
14.201	53.0	Chloroprene	707		N/A
14.968	59.0	Ethyl-tert-butyl-ether	375		N/A
15.440	77.0+41.0	2,2-Dichloropropane	631		N/A
15.589	61.0+96.0	c-1,2-Dichloroethene	861	152	81.394
15.719	43.0+72.0	2-Butanone (MEK)	610		N/A
15.948	54.0	Propionitrile	259		N/A
16.147	130.0+49.0	Bromochloromethane	642	84	75.246
17.528	39.0	Methacrylonitrile	499		N/A
16.300	83.0+85.0	Chloroform	756	76	31.918
16.584	97.0+99.0	1,1,1-Trichloroethane	683		N/A
16.648	111.0	Dibromofluoromethane (Surr1)	466		N/A
16.861	117.0+119.0	Carbon Tetrachloride	784		N/A
16.234	42.0+72.0	Tetrahydrofuran	741	429	4585.515
16.949	75.0+39.0	1,1-Dichloropropene	837		N/A
17.378	78.0	Benzene	814		N/A
17.418	65.0	1,2-Dichloroethane-d4 (Surr2)	648		N/A
17.581	62.0+64.0	1,2-Dichloroethane	732		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	612		N/A
18.773	130.0+132.0+95.0	Trichloroethene	864	190	22.694
19.397	41.0	Methyl methacrylate	581		N/A
19.273	63.0+65.0	1,2-Dichloropropane	733		N/A
19.569	93.0+174.0	Dibromomethane	735	45	16.688
20.281	88.0	1,4-Dioxane	456		N/A
19.821	83.0+85.0	Bromodichloromethane	783		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	593		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	537		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	602		N/A
21.317	98.0	Toluene-d8 (Surr3)	707	95	10.867
21.369	92.0+91.0	Toluene	914		N/A
22.013	69.0	Ethyl methacrylate	338		N/A
23.027	43.0+58.0+100.0	2-Hexanone	444		N/A
22.178	75.0+77.0	t-1,3-Dichloropropene	556	58	19.213
22.504	97.0+99.0	1,1,2-Trichloroethane	627		N/A
22.669	164.0+166.0	Tetrachloroethene	744		N/A
22.981	76.0+41.0	1,3-Dichloropropane	670		N/A
17.440	41.0	Isobutyl alcohol	734		N/A
23.563	129.0+127.0	Dibromochloromethane	534	11	2.777
23.948	107.0+109.0	1,2-Dibromoethane	547		N/A
25.749	91.0	1-Chlorohexane	700		N/A
25.398	112.0+114.0	Chlorobenzene	910	483	36.478
25.481	106.0+91.0	Ethylbenzene	906		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	565		N/A
25.921	106.0+91.0	p,m-Xylenes	976	1200	5.932
27.083	106.0+91.0	o-Xylene	888	1066	5.206
27.219	104.0+78.0	Styrene	974	1957	15.900
27.815	171.0+173.0+175.0	Bromoform	809	50	2.463

ALAB : 00228

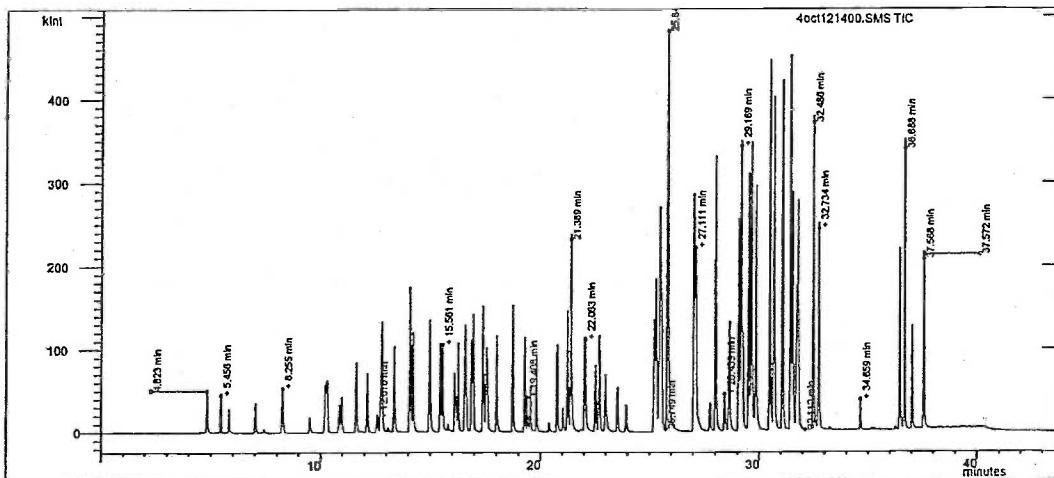
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.058	105.0+120.0	Isopropylbenzene	933	1037	4.734
28.482	75.0	cis-1,4-Dichloro-2-butene	612	238	68.314
28.661	95.0	p-Bromofluorobenzene (Surr4)	998	25534	644.944
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	702		N/A
29.098	77.0+158.0	Bromobenzene	946	944	9.939
29.222	91.0+120.0	n-Propylbenzene	925	1821	7.132
29.229	75.0	trans-1,4-Dichloro-2-butene	651		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	851		N/A
29.569	91.0+126.0	2-Chlorotoluene	874	1091	6.715
29.690	105.0+120.0	1,3,5-Trimethylbenzene	927	6414	26.770
29.566	91.0+126.0	4-Chlorotoluene	874	857	5.454
30.510	119.0+91.0	tert-Butylbenzene	814	1525	5.180
30.710	105.0+120.0	1,2,4-Trimethylbenzene	983	5105	22.246
31.446	117.0	Pentachloroethane	549	421	13.527
31.101	105.0+134.0	sec-Butylbenzene	977	3305	13.890
30.513	119.0	4-Isopropyltoluene	795	1301	7.481
31.585	146.0+148.0	1,3-Dichlorobenzene	959	1764	14.364
31.584	146.0+148.0	1,4-Dichlorobenzene	967	1455	11.796
32.112	91.0	Benzyl Chloride	589		N/A
32.519	91.0+134.0	n-Butylbenzene	983	6625	35.807
32.770	146.0+148.0	1,2-Dichlorobenzene	990	3185	27.385
34.685	75.0+157.0	1,2-Dibromo-3-chloropropane	885	420	33.419
37.583	180.0+182.0	1,2,4-Trichlorobenzene	992	14888	188.436
36.683	225.0+226.0	Hexachlorobutadiene	955		N/A
37.052	128.0	Naphthalene	997	18873	321.941
37.584	180.0+182.0	1,2,3-Trichlorobenzene	996	13013	169.790

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121400.S Calc Method: C:\VarianWS\methods\ms4_524_10181 MS
Sample Name: 25ppb 524.2 ccv 2 Acquisition Date: 10/19/2012 5:28:45 PM
Inj. Notes: w#12090602 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.014	96.0+70.0	Fluorobenzene (IS1)	915	189974	25.000
25.235	117.0	Chlorobenzene-d5(IS2)	994	164438	25.000
31.714	152.0	1,4-Dichlorobenzene-d4(IS3)	995	92387	25.000
4.823	85.0	Dichlorodifluoromethane	686	86798	26.540
5.456	50.0+52.0+49.0	Chloromethane	991	82145	28.492
5.824	62.0+64.0	Vinyl Chloride	998	76769	26.813 ✓
7.026	94.0+45.0	Bromomethane	960	30352	27.272
7.408	45.0+49.0	Chloroethane	737	4724	24.936
8.255	101.0+103.0	Trichlorofluoromethane	981	189511	26.395
9.511	59.0	Ethyl ether	940	16768	25.774
10.228	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	914	111703	26.234
11.202	56.0	Acrolein	603		N/A
10.308	96.0+61.0+98.0	1,1-Dichloroethene	955	150617	27.303 ✓
10.863	142.0	Iodomethane	938	102297	25.351
10.804	43.0+58.0	Acetone	909	7317	22.555
11.515	45.0	Isopropyl alcohol (2-Propanol)	761		N/A
10.974	76.0	Carbon disulfide	667	113600	24.909
13.371	41.0	Acetonitrile	714	111221	27.575
11.639	41.0+39.0	Allyl chloride	966	222796	27.629
12.136	84.0+49.0+86.0	Methylene Chloride	893	165872	26.664
12.618	59.0	tert-Butanol	941	17970	133.284
12.769	73.0	Methyl-tert-butyl-ether (MTBE)	984	88870	25.123 ✓
12.812	61.0+96.0	1,1,2-Dichloroethene	990	177726	26.889

10/20/2012 11:34

Page 1 of 3 524 Volatile Organics

4oct121400.SMS

ALAB : 00230

CONFIDENTIAL

LMC-PET-00001514

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.081	53.0	Acrylonitrile	986	5447	24.929
13.371	41.0	n-Hexane	998	112969	27.937
14.079	63.0	1,1-Dichloroethane	986	119615	27.685
14.298	43.0	Vinyl acetate	143		N/A
14.069	45.0	Isopropyl ether	967	173714	28.009
14.219	53.0	Chloroprene	995	123741	27.012
14.972	59.0	Ethyl-tert-butyl-ether	980	195145	27.610
15.455	77.0+41.0	2,2-Dichloropropane	995	162426	27.958
15.561	61.0+96.0	c-1,2-Dichloroethene	995	176598	28.009
15.673	43.0+72.0	2-Butanone (MEK)	601	12447	23.475
15.950	54.0	Propionitrile	881	2346	26.020
16.124	130.0+49.0	Bromochloromethane	997	99429	26.481
17.542	39.0	Methacrylonitrile	325	25686	27.201
16.282	83.0+85.0	Chloroform	997	211935	26.346 ✓
16.587	97.0+99.0	1,1,1-Trichloroethane	997	261227	26.471
16.655	111.0	Dibromofluoromethane (Surr1)	984	39810	25.439
16.880	117.0+119.0	Carbon Tetrachloride	990	212551	26.495
16.182	42.0+72.0	Tetrahydrofuran	667	7665	24.316
16.953	75.0+39.0	1,1-Dichloropropene	997	165892	26.881
17.386	78.0	Benzene	994	164507	25.476 ✓
17.430	65.0	1,2-Dichloroethane-d4 (Surr2)	979	54483	25.625
17.590	62.0+64.0	1,2-Dichloroethane	992	115289	27.645
17.540	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	184045	26.599
18.751	130.0+132.0+95.0	Trichloroethene	996	219883	26.144 ✓
19.408	41.0	Methyl methacrylate	998	35299	28.855
19.287	63.0+65.0	1,2-Dichloropropane	998	59266	27.266
19.555	93.0+174.0	Dibromomethane	994	70487	26.102
20.281	88.0	1,4-Dioxane	419		N/A
19.827	83.0+85.0	Bromodichloromethane	998	161312	26.554
20.405	63.0+43.0	2-Chloroethyl vinyl ether	523	6731	24.146
20.754	75.0+77.0+39.0	c-1,3-Dichloropropene	955	175937	27.488
21.020	43.0+58.0	4-Methyl-2-pentanone	994	46639	27.137
21.237	98.0	Toluene-d8 (Surr3)	997	222444	25.279
21.389	92.0+91.0	Toluene	998	541754	26.106 ✓
22.034	69.0	Ethyl methacrylate	994	29448	24.254
23.053	43.0+58.0+100.0	2-Hexanone	985	29703	24.460
22.063	75.0+77.0	t-1,3-Dichloropropene	978	85001	28.065
22.524	97.0+99.0	1,1,2-Trichloroethane	998	84080	26.703
22.690	164.0+166.0	Tetrachloroethene	997	24997	26.771 ✓
22.985	76.0+41.0	1,3-Dichloropropane	998	120997	26.236
17.440	41.0	Isobutyl alcohol	230		N/A
23.555	129.0+127.0	Dibromochloromethane	997	106562	26.762
23.949	107.0+109.0	1,2-Dibromoethane	997	109132	27.206
25.749	91.0	1-Chlorohexane	981		N/A
25.320	112.0+114.0	Chlorobenzene	994	337597	25.398 ✓
25.489	106.0+91.0	Ethylbenzene	995	640435	26.105 ✓
25.557	131.0+117.0	1,1,1,2-Tetrachloroethane	995	132271	26.995
25.840	106.0+91.0	p,m-Xylenes	998	1.226E6	52.322 ✓
27.036	106.0+91.0	o-Xylene	998	625448	26.367 ✓
27.111	104.0+78.0	Styrene	996	387439	27.182
27.772	171.0+173.0+175.0	Bromoform	987	59285	25.237 ✓

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.021	105.0+120.0	Isopropylbenzene	993	662844	26.128
28.439	75.0	cis-1,4-Dichloro-2-butene	997	11313	28.085
28.639	95.0	p-Bromofluorobenzene (Surr4)	998	113538	24.760
29.076	83.0+85.0	1,1,2,2-Tetrachloroethane	998	92724	25.707
29.062	77.0+158.0	Bromobenzene	994	297938	27.089
29.169	91.0+120.0	n-Propylbenzene	996	783924	26.504
29.240	75.0	trans-1,4-Dichloro-2-butene	983	49514	26.630
29.240	75.0+110.0	1,2,3-Trichloropropane	975	61228	24.798
29.531	91.0+126.0	2-Chlorotoluene	997	481828	25.613
29.649	105.0+120.0	1,3,5-Trimethylbenzene	998	701968	25.293
29.532	91.0+126.0	4-Chlorotoluene	995	473822	26.029
30.497	119.0+91.0	tert-Butylbenzene	884	890407	26.115
30.670	105.0+120.0	1,2,4-Trimethylbenzene	997	662211	24.914
31.438	117.0	Pentachloroethane	449	90679	25.137
31.076	105.0+134.0	sec-Butylbenzene	990	719844	26.121
30.495	119.0	4-Isopropyltoluene	893	518187	25.720
31.534	146.0+148.0	1,3-Dichlorobenzene	997	371268	26.102
31.533	146.0+148.0	1,4-Dichlorobenzene	997	376999	26.382
32.112	91.0	Benzyl Chloride	609		N/A
32.486	91.0+134.0	n-Butylbenzene	996	546235	25.491
32.734	146.0+148.0	1,2-Dichlorobenzene	996	344032	25.536
34.659	75.0+157.0	1,2-Dibromo-3-chloropropane	982	37177	25.511
37.568	180.0+182.0	1,2,4-Trichlorobenzene	992	212345	23.205
36.688	225.0+226.0	Hexachlorobutadiene	976	151069	24.871
37.034	128.0	Naphthalene	997	160125	23.583
37.572	180.0+182.0	1,2,3-Trichlorobenzene	996	205040	23.098

524 Volatile Organics

Associated Labs

GCMS # 4

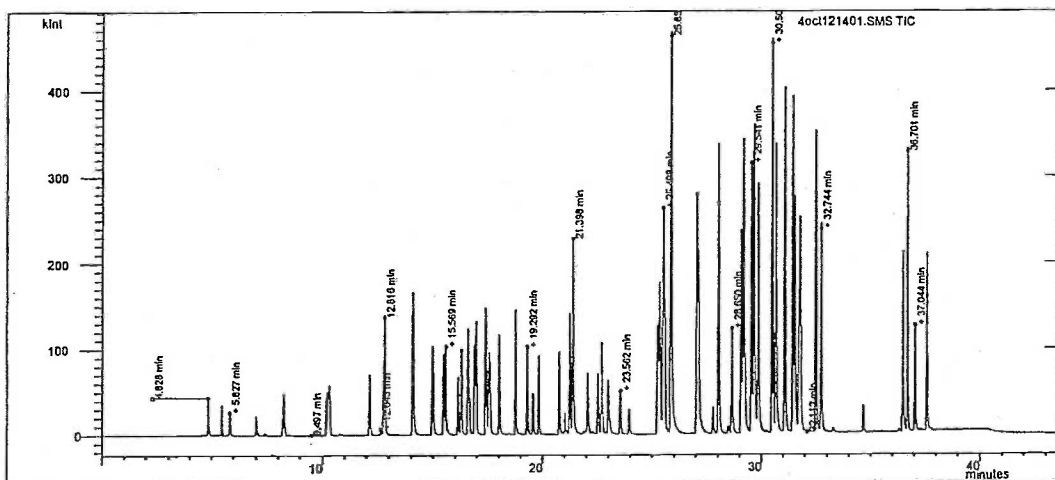
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Sample Name: 25ppb 524.2 lcs 2

Acquisition Date: 10/19/2012 6:17:54 PM

Inj. Notes: w#12090604

Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.020	96.0+70.0	Fluorobenzene (IS1)	892	186692	25.000
25.245	117.0	Chlorobenzene-d5(IS2)	994	156358	25.000
31.724	152.0	1,4-Dichlorobenzene-d4(IS3)	996	87826	25.000
4.828	85.0	Dichlorodifluoromethane	760	73859	22.981
5.462	50.0+52.0+49.0	Chloromethane	995	61407	21.673
5.827	62.0+64.0	Vinyl Chloride	998	70684	25.122
7.030	94.0+45.0	Bromomethane	968	18805	17.194
7.417	45.0+49.0	Chloroethane	765	3116	16.736
8.265	101.0+103.0	Trichlorofluoromethane	980	168271	23.849
9.497	59.0	Ethyl ether	627		N/A
10.233	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	909	96551	23.074
11.202	56.0	Acrolein	675		N/A
10.313	96.0+61.0+98.0	1,1-Dichloroethene	941	132583	24.457
10.878	142.0	Iodomethane	945	1350	0.340
10.808	43.0+58.0	Acetone	929	5541	17.380
11.515	45.0	Isopropyl alcohol (2-Propanol)	771		N/A
10.957	76.0	Carbon disulfide	741		N/A
13.346	41.0	Acetonitrile	461		N/A
11.623	41.0+39.0	Allyl chloride	824		N/A
12.143	84.0+49.0+86.0	Methylene Chloride	881	158484	25.924
12.643	59.0	tert-Butanol	964	12665	95.593
12.783	73.0	Methyl-tert-butyl-ether (MTBE)	987	82092	23.615
12.816	61.0+96.0	1,1,2-Dichloroethene	982	178426	27.469

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	596		N/A
13.360	41.0	n-Hexane	846		N/A
14.089	63.0	1,1-Dichloroethane	972	109578	25.808
14.298	43.0	Vinyl acetate	180		N/A
14.085	45.0	Isopropyl ether	985	167880	27.544
14.201	53.0	Chloroprene	61		N/A
14.985	59.0	Ethyl-tert-butyl-ether	990	179878	25.897
15.464	77.0+41.0	2,2-Dichloropropane	998	141797	24.836
15.569	61.0+96.0	c-1,2-Dichloroethene	996	173155	27.946
15.681	43.0+72.0	2-Butanone (MEK)	866	9248	17.749
15.948	54.0	Propionitrile	303		N/A
16.133	130.0+49.0	Bromochloromethane	995	91604	24.825
17.552	39.0	Methacrylonitrile	339	23598	25.430
16.293	83.0+85.0	Chloroform	997	202299	25.590
16.595	97.0+99.0	1,1,1-Trichloroethane	997	252365	26.023
16.665	111.0	Dibromofluoromethane (Surr1)	986	38544	25.063
16.888	117.0+119.0	Carbon Tetrachloride	990	202443	25.678
16.285	42.0+72.0	Tetrahydrofuran	655	848	2.736
16.962	75.0+39.0	1,1-Dichloropropene	997	156402	25.789
17.394	78.0	Benzene	992	160896	25.355
17.440	65.0	1,2-Dichloroethane-d4 (Surr2)	977	52813	25.276
17.600	62.0+64.0	1,2-Dichloroethane	976	107557	26.244
17.552	73.0+55.0+87.0	tert-Amyl-methyl-ether	997	167903	24.693
18.755	130.0+132.0+95.0	Trichloroethene	996	205839	25.739
19.292	41.0	Methyl methacrylate	762	39413	33.883
19.292	63.0+65.0	1,2-Dichloropropane	998	55968	27.080
19.565	93.0+174.0	Dibromomethane	992	63107	24.576
20.281	88.0	1,4-Dioxane	388		N/A
19.836	83.0+85.0	Bromodichloromethane	998	159085	27.541
20.393	63.0+43.0	2-Chloroethyl vinyl ether	670		N/A
20.761	75.0+77.0+39.0	c-1,3-Dichloropropene	955	161248	26.495
21.032	43.0+58.0	4-Methyl-2-pentanone	992	39615	24.241
21.245	98.0	Toluene-d8 (Surr3)	997	216179	25.836
21.398	92.0+91.0	Toluene	998	516273	26.164
21.998	69.0	Ethyl methacrylate	787	1275	1.104
23.068	43.0+58.0+100.0	2-Hexanone	984	23995	20.781
22.072	75.0+77.0	t-1,3-Dichloropropene	990	74260	25.785
22.537	97.0+99.0	1,1,2-Trichloroethane	999	74190	24.779
22.700	164.0+166.0	Tetrachloroethene	996	22069	24.857
22.998	76.0+41.0	1,3-Dichloropropane	997	112807	25.724
17.440	41.0	Isobutyl alcohol	223		N/A
23.562	129.0+127.0	Dibromochloromethane	996	101768	26.879
23.960	107.0+109.0	1,2-Dibromoethane	999	97856	25.656
25.749	91.0	1-Chlorohexane	980		N/A
25.332	112.0+114.0	Chlorobenzene	993	328370	25.980
25.498	106.0+91.0	Ethylbenzene	996	614693	26.356
25.566	131.0+117.0	1,1,1,2-Tetrachloroethane	996	123938	26.607
25.850	106.0+91.0	p,m-Xylenes	998	1.198E6	53.799
27.044	106.0+91.0	o-Xylene	998	608461	26.983
27.120	104.0+78.0	Styrene	995	373403	27.558
27.783	171.0+173.0+175.0	Bromoform	986	54952	24.607

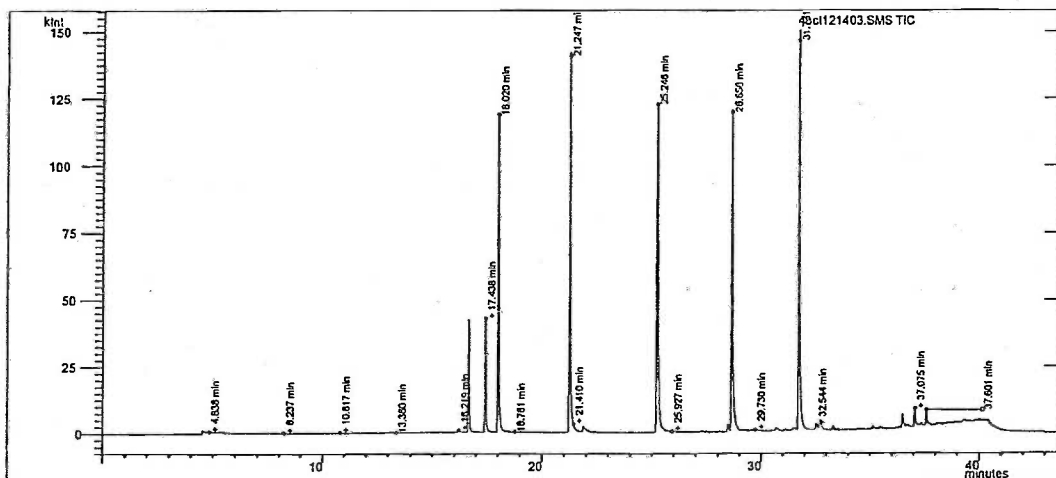
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.027	105.0+120.0	Isopropylbenzene	992	646835	26.821
28.479	75.0	cis-1,4-Dichloro-2-butene	697	333	0.870
28.650	95.0	p-Bromofluorobenzene (Surr4)	998	108568	24.906
29.085	83.0+85.0	1,1,2,2-Tetrachloroethane	997	83056	24.223
29.072	77.0+158.0	Bromobenzene	995	271140	25.932
29.178	91.0+120.0	n-Propylbenzene	996	749522	26.657
29.247	75.0	trans-1,4-Dichloro-2-butene	843	34372	19.446
29.247	75.0+110.0	1,2,3-Trichloropropane	973	46535	19.826
29.541	91.0+126.0	2-Chlorotoluene	997	478709	26.768
29.659	105.0+120.0	1,3,5-Trimethylbenzene	997	694895	26.339
29.541	91.0+126.0	4-Chlorotoluene	995	478709	27.663
30.505	119.0+91.0	tert-Butylbenzene	877	894973	27.612
30.679	105.0+120.0	1,2,4-Trimethylbenzene	998	583457	23.091
31.448	117.0	Pentachloroethane	378	83022	24.209
31.085	105.0+134.0	sec-Butylbenzene	991	709667	27.089
30.504	119.0	4-Isopropyltoluene	887	525547	27.440
31.544	146.0+148.0	1,3-Dichlorobenzene	996	350639	25.932
31.542	146.0+148.0	1,4-Dichlorobenzene	997	357018	26.281
32.112	91.0	Benzyl Chloride	589		N/A
32.497	91.0+134.0	n-Butylbenzene	997	504065	24.744
32.744	146.0+148.0	1,2-Dichlorobenzene	997	336774	26.295
34.669	75.0+157.0	1,2-Dibromo-3-chloropropane	981	32709	23.611
37.584	180.0+182.0	1,2,4-Trichlorobenzene	988	205705	23.647
36.701	225.0+226.0	Hexachlorobutadiene	971	143645	24.877
37.044	128.0	Naphthalene	995	159678	24.739
37.585	180.0+182.0	1,2,3-Trichlorobenzene	997	201630	23.893

524 Volatile Organics

Associated Labs

GCMS # 4

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Sample Name: method blk 2 Acquisition Date: 10/19/2012 7:55:46 PM
Inj. Notes: w#12090702 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.020	96.0+70.0	Fluorobenzene (IS1)	935	190776	25.000
25.246	117.0	Chlorobenzene-d5 (IS2)	995	166143	25.000
31.731	152.0	1,4-Dichlorobenzene-d4 (IS3)	959	84802	25.000
4.838	85.0	Dichlorodifluoromethane	759	47	0.014
5.467	50.0+52.0+49.0	Chloromethane	377	37	0.013
5.812	62.0+64.0	Vinyl Chloride	828		N/A
7.014	94.0+45.0	Bromomethane	565		N/A
7.411	45.0+49.0	Chloroethane	473		N/A
8.237	101.0+103.0	Trichlorofluoromethane	735		N/A
9.497	59.0	Ethyl ether	540		N/A
10.209	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	639		N/A
11.202	56.0	Acrolein	524		N/A
10.287	96.0+61.0+98.0	1,1-Dichloroethene	564		N/A
10.846	142.0	Iodomethane	775	21	0.005
10.817	43.0+58.0	Acetone	816	428	1.314
11.515	45.0	Isopropyl alcohol (2-Propanol)	782		N/A
10.957	76.0	Carbon disulfide	530		N/A
13.346	41.0	Acetonitrile	800		N/A
11.623	41.0+39.0	Allyl chloride	722		N/A
12.136	84.0+49.0+86.0	Methylene Chloride	830	347	0.056
12.615	59.0	tert-Butanol	706		N/A
12.750	73.0	Methyl-tert-butyl-ether (MTBE)	699		N/A
12.825	61.0+96.0	1,1,2-Dichloroethene	673	62	0.009

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.070	53.0	Acrylonitrile	493		N/A
13.360	41.0	n-Hexane	783		N/A
14.068	63.0	1,1-Dichloroethane	514		N/A
14.298	43.0	Vinyl acetate	536		N/A
14.055	45.0	Isopropyl ether	630		N/A
14.201	53.0	Chloroprene	474		N/A
14.968	59.0	Ethyl-tert-butyl-ether	370		N/A
15.440	77.0+41.0	2,2-Dichloropropane	764		N/A
15.587	61.0+96.0	c-1,2-Dichloroethene	686	106	0.017
15.785	43.0+72.0	2-Butanone (MEK)	658	88	0.166
15.948	54.0	Propionitrile	263		N/A
16.123	130.0+49.0	Bromochloromethane	632		N/A
17.528	39.0	Methacrylonitrile	327		N/A
16.261	83.0+85.0	Chloroform	580		N/A
16.584	97.0+99.0	1,1,1-Trichloroethane	458		N/A
16.663	111.0	Dibromofluoromethane (Surr1)	994	42394	26.976
16.861	117.0+119.0	Carbon Tetrachloride	613		N/A
16.219	42.0+72.0	Tetrahydrofuran	797	557	1.759
16.949	75.0+39.0	1,1-Dichloropropene	639		N/A
17.421	78.0	Benzene	805	132	0.020
17.438	65.0	1,2-Dichloroethane-d4 (Surr2)	984	67014	31.387
17.581	62.0+64.0	1,2-Dichloroethane	292		N/A
17.537	73.0+55.0+87.0	tert-Amyl-methyl-ether	509		N/A
18.781	130.0+132.0+95.0	Trichloroethene	861	125	0.015
19.397	41.0	Methyl methacrylate	680		N/A
19.273	63.0+65.0	1,2-Dichloropropane	488		N/A
19.543	93.0+174.0	Dibromomethane	571		N/A
20.281	88.0	1,4-Dioxane	506		N/A
19.821	83.0+85.0	Bromodichloromethane	576		N/A
20.393	63.0+43.0	2-Chloroethyl vinyl ether	642		N/A
20.738	75.0+77.0+39.0	c-1,3-Dichloropropene	611		N/A
21.012	43.0+58.0	4-Methyl-2-pentanone	513		N/A
21.247	98.0	Toluene-d8 (Surr3)	996	223263	25.112
21.410	92.0+91.0	Toluene	385	660	0.031
22.013	69.0	Ethyl methacrylate	547		N/A
23.027	43.0+58.0+100.0	2-Hexanone	625		N/A
22.043	75.0+77.0	t-1,3-Dichloropropene	187		N/A
22.504	97.0+99.0	1,1,2-Trichloroethane	704		N/A
22.669	164.0+166.0	Tetrachloroethene	607		N/A
22.981	76.0+41.0	1,3-Dichloropropane	555		N/A
17.440	41.0	Isobutyl alcohol	642		N/A
23.543	129.0+127.0	Dibromochloromethane	457		N/A
24.069	107.0+109.0	1,2-Dibromoethane	688	26	0.006
25.749	91.0	1-Chlorohexane	577		N/A
25.315	112.0+114.0	Chlorobenzene	271		N/A
25.481	106.0+91.0	Ethylbenzene	803		N/A
25.549	131.0+117.0	1,1,1,2-Tetrachloroethane	405		N/A
25.927	106.0+91.0	p,m-Xylenes	882	601	0.028
27.024	106.0+91.0	o-Xylene	777		N/A
27.294	104.0+78.0	Styrene	860	346	0.026
27.764	171.0+173.0+175.0	Bromoform	608		N/A

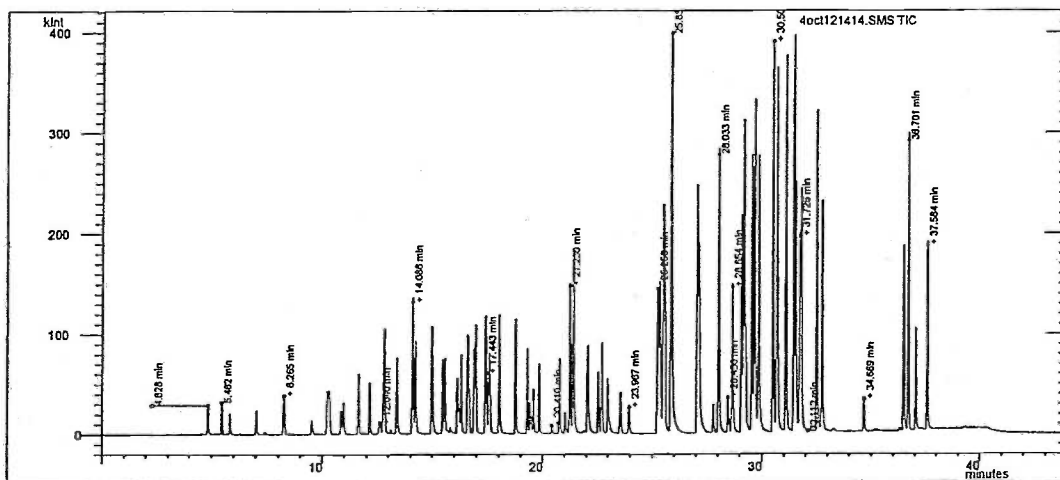
RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.074	105.0+120.0	Isopropylbenzene	870	351	0.015
28.418	75.0	cis-1,4-Dichloro-2-butene	546		N/A
28.656	95.0	p-Bromofluorobenzene (Surr4)	999	114582	27.223
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	642		N/A
29.155	77.0+158.0	Bromobenzene	895	110	0.011
29.148	91.0+120.0	n-Propylbenzene	917		N/A
29.229	75.0	trans-1,4-Dichloro-2-butene	708		N/A
29.231	75.0+110.0	1,2,3-Trichloropropane	689		N/A
29.517	91.0+126.0	2-Chlorotoluene	735		N/A
29.730	105.0+120.0	1,3,5-Trimethylbenzene	941	2276	0.089
29.521	91.0+126.0	4-Chlorotoluene	734		N/A
30.485	119.0+91.0	tert-Butylbenzene	813		N/A
30.723	105.0+120.0	1,2,4-Trimethylbenzene	963	2164	0.089
31.431	117.0	Pentachloroethane	624		N/A
31.110	105.0+134.0	sec-Butylbenzene	925	1321	0.052
30.523	119.0	4-Isopropyltoluene	717	482	0.026
31.582	146.0+148.0	1,3-Dichlorobenzene	949	719	0.055
31.583	146.0+148.0	1,4-Dichlorobenzene	950	914	0.070
32.112	91.0	Benzyl Chloride	348		N/A
32.544	91.0+134.0	n-Butylbenzene	965	2218	0.113
32.768	146.0+148.0	1,2-Dichlorobenzene	954	1315	0.106
34.645	75.0+157.0	1,2-Dibromo-3-chloropropane	727		N/A
37.599	180.0+182.0	1,2,4-Trichlorobenzene	992	7880	0.938
36.683	225.0+226.0	Hexachlorobutadiene	949		N/A
37.075	128.0	Naphthalene	997	7847	1.259
37.601	180.0+182.0	1,2,3-Trichlorobenzene	992	6630	0.814

524 Volatile Organics

Associated Labs

GCMS # 4

Data File Name: c:\varianws\data\4oct12\4oct121414.S Calc Method: C:\VarianWS\methods\ms4_524_10181 MS
 Sample Name: 20ppb 524.2 ccv 3 Acquisition Date: 10/20/2012 4:59:42 AM
 Inj. Notes: w#12090602 Operator Name: NZ



RT	Quan Ions	Compound Name	R.Match	Area	Amount
18.027	96.0+70.0	Fluorobenzene (IS1)	905	185136	25.000
25.250	117.0	Chlorobenzene-d5(IS2)	986	173435	25.000
31.726	152.0	1,4-Dichlorobenzene-d4(IS3)	991	105293	25.000
4.828	85.0	Dichlorodifluoromethane	853	50687	15.903
5.462	50.0+52.0+49.0	Chloromethane	992	54233	19.302
5.828	62.0+64.0	Vinyl Chloride	998	53178	19.059 ✓
7.029	94.0+45.0	Bromomethane	931	20918	19.286
7.414	45.0+49.0	Chloroethane	662	3238	17.538
8.265	101.0+103.0	Trichlorofluoromethane	980	137375	19.634
9.527	59.0	Ethyl ether	960	12305	19.409
10.240	101.0+151.0	Trichlorotrifluoroethane (Freon 113)	920	82292	19.832
11.202	56.0	Acrolein	505		N/A
10.318	96.0+61.0+98.0	1,1-Dichloroethene	946	103738	19.297 ✓
10.873	142.0	Iodomethane	938	68739	17.480
10.810	43.0+58.0	Acetone	900	5438	17.202
11.515	45.0	Isopropyl alcohol (2-Propanol)	696		N/A
10.984	76.0	Carbon disulfide	717	84297	18.967
13.380	41.0	Acetonitrile	686	83735	21.303
11.651	41.0+39.0	Allyl chloride	960	162503	20.679
12.147	84.0+49.0+86.0	Methylene Chloride	882	112400	18.541
12.640	59.0	tert-Butanol	961	12813	97.522
12.784	73.0	Methyl-tert-butyl-ether (MTBE)	984	67018	19.440 ✓
12.823	61.0+96.0	t-1,2-Dichloroethene	980	133357	20.704

10/20/2012 11:38

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4oct121414.SMS

ALAB : 00239

CONFIDENTIAL

LMC-PET-00001523

RT	Quan Ions	Compound Name	R.Match	Area	Amount
13.097	53.0	Acrylonitrile	989	3784	17.771
13.380	41.0	n-Hexane	997	85473	21.690
14.091	63.0	1,1-Dichloroethane	974	90996	21.612
14.298	43.0	Vinyl acetate	168		N/A
14.086	45.0	Isopropyl ether	952	137342	22.723
14.230	53.0	Chloroprene	995	97081	21.746
14.987	59.0	Ethyl-tert-butyl-ether	985	145667	21.148
15.467	77.0+41.0	2,2-Dichloropropane	998	108897	19.234
15.573	61.0+96.0	c-1,2-Dichloroethene	988	133527	21.732
15.688	43.0+72.0	2-Butanone (MEK)	606	9507	18.398
15.961	54.0	Propionitrile	833	1551	17.647
16.137	130.0+49.0	Bromochloromethane	996	77125	21.077
17.561	39.0	Methacrylonitrile	320	18449	20.048
16.297	83.0+85.0	Chloroform	993	162258	20.698 ✓
16.599	97.0+99.0	1,1,1-Trichloroethane	997	199828	20.779
16.670	111.0	Dibromofluoromethane (Surr1)	984	39474	25.883
16.892	117.0+119.0	Carbon Tetrachloride	989	161469	20.653
16.199	42.0+72.0	Tetrahydrofuran	663	5827	18.969
16.966	75.0+39.0	1,1-Dichloropropene	997	125057	20.794
17.400	78.0	Benzene	988	129547	20.586 ✓
17.443	65.0	1,2-Dichloroethane-d4 (Surr2)	979	57707	27.851
17.608	62.0+64.0	1,2-Dichloroethane	984	86298	21.234
17.558	73.0+55.0+87.0	tert-Amyl-methyl-ether	996	137950	20.458
18.762	130.0+132.0+95.0	Trichloroethene	996	168206	18.962 ✓
19.424	41.0	Methyl methacrylate	998	26676	20.675
19.297	63.0+65.0	1,2-Dichloropropane	998	47160	20.571 ✓
19.569	93.0+174.0	Dibromomethane	995	52491	18.429
20.281	88.0	1,4-Dioxane	398		N/A
19.840	83.0+85.0	Bromodichloromethane	998	120820	18.857
20.419	63.0+43.0	2-Chloroethyl vinyl ether	617	5366	18.250
20.766	75.0+77.0+39.0	c-1,3-Dichloropropene	973	126198	18.694
21.038	43.0+58.0	4-Methyl-2-pentanone	995	32980	18.195
21.250	98.0	Toluene-d8 (Surr3)	995	221439	23.859
21.405	92.0+91.0	Toluene	998	427336	19.524 ✓
22.050	69.0	Ethyl methacrylate	994	21609	16.874
23.076	43.0+58.0+100.0	2-Hexanone	989	20545	16.040
22.079	75.0+77.0	t-1,3-Dichloropropene	982	63339	19.828
22.538	97.0+99.0	1,1,2-Trichloroethane	999	64730	19.491
22.701	164.0+166.0	Tetrachloroethene	997	19382	19.682 ✓
23.002	76.0+41.0	1,3-Dichloropropane	998	99505	20.457
17.440	41.0	Isobutyl alcohol	236		N/A
23.568	129.0+127.0	Dibromochloromethane	996	83749	19.942
23.967	107.0+109.0	1,2-Dibromoethane	998	85410	20.188
25.749	91.0	1-Chlorohexane	983		N/A
25.338	112.0+114.0	Chlorobenzene	994	280277	19.992 ✓
25.505	106.0+91.0	Ethylbenzene	996	544184	19.462 ✓
25.570	131.0+117.0	1,1,1,2-Tetrachloroethane	996	114012	20.416
25.855	106.0+91.0	p,m-Xylenes	998	1.043E6	39.057 ✓
27.051	106.0+91.0	o-Xylene	996	547813	20.263 ✓
27.126	104.0+78.0	Styrene	996	321539	19.794
27.787	171.0+173.0+175.0	Bromoform	986	50782	18.967

RT	Quan Ions	Compound Name	R.Match	Area	Amount
28.033	105.0+120.0	Isopropylbenzene	992	566571	19.596
28.456	75.0	cis-1,4-Dichloro-2-butene	996	8733	19.024
28.654	95.0	p-Bromofluorobenzene (Surr4)	998	129179	24.718
29.090	83.0+85.0	1,1,2,2-Tetrachloroethane	994	79120	19.247
29.077	77.0+158.0	Bromobenzene	982	242183	19.320
29.182	91.0+120.0	n-Propylbenzene	996	678032	20.114
29.254	75.0	trans-1,4-Dichloro-2-butene	977	43610	20.579
29.253	75.0+110.0	1,2,3-Trichloropropane	984	55698	19.793
29.545	91.0+126.0	2-Chlorotoluene	998	420570	19.616
29.663	105.0+120.0	1,3,5-Trimethylbenzene	998	629595	19.905
29.545	91.0+126.0	4-Chlorotoluene	996	420570	20.272
30.508	119.0+91.0	tert-Butylbenzene	868	808985	20.819
30.684	105.0+120.0	1,2,4-Trimethylbenzene	997	566186	18.690
31.446	117.0	Pentachloroethane	418	84222	20.485
31.088	105.0+134.0	sec-Butylbenzene	990	647223	20.607
30.506	119.0	4-Isopropyltoluene	882	463010	20.165
31.547	146.0+148.0	1,3-Dichlorobenzene	996	319330	19.698
31.548	146.0+148.0	1,4-Dichlorobenzene	997	315776	19.389
32.112	91.0	Benzyl Chloride	511		N/A
32.500	91.0+134.0	n-Butylbenzene	996	472193	19.335
32.745	146.0+148.0	1,2-Dichlorobenzene	996	312956	20.382
34.669	75.0+157.0	1,2-Dibromo-3-chloropropane	981	32559	19.604
37.581	180.0+182.0	1,2,4-Trichlorobenzene	993	181919	17.443
36.701	225.0+226.0	Hexachlorobutadiene	971	134065	19.366
37.046	128.0	Naphthalene	996	133297	17.226
37.584	180.0+182.0	1,2,3-Trichlorobenzene	996	179099	17.703

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Associated Labs Contract:
 Lab Code: # 4 Case No.: SAS No.: SDG No.:
 Instrument ID: Continuing Cal. Sample Date: 10/19/2012 Time: 3:28
 Heated Purge (Y/N): No Initial Cal. Sample Date: 10/18/2012 10/18/2012
 GC Column: ID: (mm) Initial Cal. Sample Time: 10:15 22:33
 Initial Calibration File: C:\VarianWS\data\4Oct12\4oct121377.SMS
 Lab File ID: c:\varianws\data\4oct12\4oct121383.SMS

$$RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))$$

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Dichlorodifluoromethane	0.449	0.100	25.00	26.08	-4.3	20.0
Chloromethane	0.414	0.100	25.00	27.27	-9.1	20.0
Vinyl Chloride	0.380	0.100	25.00	25.23	-0.9	20.0
Bromomethane	0.142	0.100	25.00	24.18	3.3	20.0
Chloroethane	0.024	0.100	25.00	24.22	3.1	20.0
Trichlorofluoromethane	0.979	0.100	25.00	25.90	-3.6	20.0
Ethyl ether	0.091	0.100	25.00	26.61	-6.4	20.0
Trichlorotrifluoroethane (Freon 113)	0.575	0.100	25.00	25.67	-2.7	20.0
Acrolein	0.000	0.100	25.00	0.00	100.0	20.0
1,1-Dichloroethene	0.737	0.100	25.00	25.40	-1.6	20.0
Iodomethane	0.542	0.100	25.00	25.52	-2.1	20.0
Acetone	0.040	0.100	25.00	23.51	6.0	20.0
Isopropyl alcohol (2-Propanol)	0.000	0.100	25.00	0.00	100.0	20.0
Carbon disulfide	0.582	0.100	25.00	24.26	3.0	20.0
Acetonitrile	0.563	0.100	25.00	26.52	-6.1	20.0
Allyl chloride	1.090	0.100	25.00	25.67	-2.7	20.0
Methylene Chloride	0.761	0.100	25.00	23.25	7.0	20.0
tert-Butanol	0.018	0.100	125.00	123.87	0.9	20.0
Methyl-tert-butyl-ether (MTBE)	0.459	0.100	25.00	24.63	1.5	20.0
1,1,2-Dichloroethene	0.891	0.100	25.00	25.61	-2.4	20.0
Acrylonitrile	0.027	0.100	25.00	23.63	5.5	20.0
n-Hexane	0.563	0.100	25.00	26.47	-5.9	20.0
1,1-Dichloroethane	0.615	0.100	25.00	27.06	-8.2	20.0
Vinyl acetate	0.000	0.100	25.00	0.00	100.0	20.0
Isopropyl ether	0.902	0.100	25.00	27.64	-10.6	20.0
Chloroprene	0.642	0.100	25.00	26.64	-6.6	20.0
Ethyl-tert-butyl-ether	0.994	0.100	25.00	26.71	-6.8	20.0
2,2-Dichloropropane	0.677	0.100	25.00	22.14	11.4	20.0
c-1,2-Dichloroethene	0.898	0.100	25.00	27.05	-8.2	20.0
2-Butanone (MEK)	0.071	0.100	25.00	25.36	-1.5	20.0
Propionitrile	0.011	0.100	25.00	23.81	4.8	20.0
Bromochloromethane	0.522	0.100	25.00	26.40	-5.6	20.0
Methacrylonitrile	0.140	0.100	25.00	28.07	-12.3	20.0
Chloroform	1.083	0.100	25.00	25.58	-2.3	20.0
1,1,1-Trichloroethane	1.315	0.100	25.00	25.32	-1.3	20.0
Dibromofluoromethane (Surr1)	0.213	0.100	25.00	25.80	-3.2	20.0

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4oct121383.SMS

ALAB: 00242

CONFIDENTIAL

LMC-PET-00001526

Compound	RRF MinRRF		Ci	Cc	% D Max	%D
Carbon Tetrachloride	1.074	0.100	25.00	25.44	-1.7	20.0
Tetrahydrofuran	0.041	0.100	25.00	24.81	0.8	20.0
1,1-Dichloropropene	0.811	0.100	25.00	24.96	0.1	20.0
Benzene	0.840	0.100	25.00	24.70	1.2	20.0
1,2-Dichloroethane-d4 (Surr2)	0.291	0.100	25.00	25.97	-3.9	20.0
1,2-Dichloroethane	0.614	0.100	25.00	27.99	-12.0	20.0
tert-Amyl-methyl-ether	0.954	0.100	25.00	26.21	-4.8	20.0
Trichloroethene	1.301	0.100	25.00	25.44	-1.8	20.0
Methyl methacrylate	0.221	0.100	25.00	29.70	-18.8	20.0
1,2-Dichloropropane	0.352	0.100	25.00	26.66	-6.6	20.0
Dibromomethane	0.432	0.100	25.00	26.29	-5.2	20.0
1,4-Dioxane	0.000	0.100	25.00	0.00	100.0	20.0
Bromodichloromethane	0.940	0.100	25.00	25.44	-1.8	20.0
2-Chloroethyl vinyl ether	0.043	0.100	25.00	25.27	-1.1	20.0
c-1,3-Dichloropropene	1.024	0.100	25.00	26.31	-5.3	20.0
4-Methyl-2-pentanone	0.294	0.100	25.00	28.11	-12.4	20.0
Toluene-d8 (Surr3)	1.337	0.100	25.00	24.98	0.1	20.0
Toluene	3.152	0.100	25.00	24.97	0.1	20.0
Ethyl methacrylate	0.185	0.100	25.00	25.08	-0.3	20.0
2-Hexanone	0.193	0.100	25.00	26.19	-4.8	20.0
t-1,3-Dichloropropene	0.473	0.100	25.00	25.70	-2.8	20.0
1,1,2-Trichloroethane	0.512	0.100	25.00	26.72	-6.9	20.0
Tetrachloroethene	0.144	0.100	25.00	25.40	-1.6	20.0
1,3-Dichloropropane	0.742	0.100	25.00	26.46	-5.8	20.0
Isobutyl alcohol	0.000	0.100	25.00	0.00	100.0	20.0
Dibromochloromethane	0.635	0.100	25.00	26.22	-4.9	20.0
1,2-Dibromoethane	0.655	0.100	25.00	26.83	-7.3	20.0
1-Chlorohexane	0.000	0.100	25.00	0.00	100.0	20.0
Chlorobenzene	2.028	0.100	25.00	25.08	-0.3	20.0
Ethylbenzene	6.695	0.100	25.00	25.21	-0.8	20.0
1,1,1,2-Tetrachloroethane	1.411	0.100	25.00	26.60	-6.4	20.0
p,m-Xylenes	6.365	0.100	50.00	50.20	-0.4	20.0
o-Xylene	6.489	0.100	25.00	25.27	-1.1	20.0
Styrene	4.070	0.100	25.00	26.38	-5.5	20.0
Bromoform	0.651	0.100	25.00	25.62	-2.5	20.0
Isopropylbenzene	6.879	0.100	25.00	25.05	-0.2	20.0
cis-1,4-Dichloro-2-butene	0.102	0.100	25.00	23.51	6.0	20.0
p-Bromofluorobenzene (Surr4)	1.252	0.100	25.00	25.23	-0.9	20.0
1,1,2,2-Tetrachloroethane	0.998	0.100	25.00	25.56	-2.2	20.0
Bromobenzene	3.166	0.100	25.00	26.59	-6.4	20.0
n-Propylbenzene	7.995	0.100	25.00	24.97	0.1	20.0
trans-1,4-Dichloro-2-butene	0.527	0.100	25.00	26.18	-4.7	20.0
1,2,3-Trichloropropane	0.692	0.100	25.00	25.88	-3.5	20.0
2-Chlorotoluene	5.089	0.100	25.00	24.99	0.0	20.0
1,3,5-Trimethylbenzene	7.304	0.100	25.00	24.31	2.7	20.0
4-Chlorotoluene	5.011	0.100	25.00	25.43	-1.7	20.0
tert-Butylbenzene	9.367	0.100	25.00	25.38	-1.5	20.0
1,2,4-Trimethylbenzene	6.820	0.100	25.00	23.71	5.2	20.0
Pentachloroethane	0.976	0.100	25.00	25.00	0.0	20.0
sec-Butylbenzene	7.475	0.100	25.00	25.06	-0.2	20.0

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4oct121383.SMS

ALAB: 00243

CONFIDENTIAL

LMC-PET-00001527

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
4-Isopropyltoluene	5.434	0.100	25.00	24.92	0.3	20.0
1,3-Dichlorobenzene	3.762	0.100	25.00	24.43	2.3	20.0
1,4-Dichlorobenzene	3.799	0.100	25.00	24.56	1.8	20.0
Benzyl Chloride	0.000	0.100	25.00	0.00	100.0	20.0
n-Butylbenzene	5.162	0.100	25.00	22.26	11.0	20.0
1,2-Dichlorobenzene	3.582	0.100	25.00	24.56	1.8	20.0
1,2-Dibromo-3-chloropropane	0.399	0.100	25.00	25.33	-1.3	20.0
1,2,4-Trichlorobenzene	2.188	0.100	25.00	22.09	11.6	20.0
Hexachlorobutadiene	1.462	0.100	25.00	22.24	11.0	20.0
Naphthalene	1.818	0.100	25.00	24.74	1.0	20.0
1,2,3-Trichlorobenzene	2.129	0.100	25.00	22.16	11.4	20.0

VOLATILE CONTINUING CALIBRATION CHECK

EPA Method 8260A

Lab Name: Associated Labs Contract:
 Lab Code: # 4 Case No.: SAS No.: SDG No.:
 Instrument ID: Continuing Cal. Sample Date: 10/19/2012 Time: 17:28
 Heated Purge (Y/N): No Initial Cal. Sample Date: 10/18/2012 10/18/2012
 GC Column: ID: (mm) Initial Cal. Sample Time: 10:15 22:33
 Initial Calibration File: C:\VarianWS\data\4Oct12\4oct121377.SMS
 Lab File ID: c:\varianws\data\4oct12\4oct121400.SMS

$$RRF = (Area(sample)/Amount(sample))/(Area(standard)/Amount(standard))$$

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Dichlorodifluoromethane	0.457	0.100	25.00	26.54	-6.2	20.0
Chloromethane	0.432	0.100	25.00	28.49	-14.0	20.0
Vinyl Chloride	0.404	0.100	25.00	26.81	-7.3	20.0
Bromomethane	0.160	0.100	25.00	27.27	-9.1	20.0
Chloroethane	0.025	0.100	25.00	24.94	0.3	20.0
Trichlorofluoromethane	0.998	0.100	25.00	26.39	-5.6	20.0
Ethyl ether	0.088	0.100	25.00	25.77	-3.1	20.0
Trichlorotrifluoroethane (Freon 113)	0.588	0.100	25.00	26.23	-4.9	20.0
Acrolein	0.000	0.100	25.00	0.00	100.0	20.0
1,1-Dichloroethene	0.793	0.100	25.00	27.30	-9.2	20.0
Iodomethane	0.538	0.100	25.00	25.35	-1.4	20.0
Acetone	0.039	0.100	25.00	22.56	9.8	20.0
Isopropyl alcohol (2-Propanol)	0.000	0.100	25.00	0.00	100.0	20.0
Carbon disulfide	0.598	0.100	25.00	24.91	0.4	20.0
Acetonitrile	0.585	0.100	25.00	27.57	-10.3	20.0
Allyl chloride	1.173	0.100	25.00	27.63	-10.5	20.0
Methylene Chloride	0.873	0.100	25.00	26.66	-6.7	20.0
tert-Butanol	0.019	0.100	125.00	133.28	-6.6	20.0
Methyl-tert-butyl-ether (MTBE)	0.468	0.100	25.00	25.12	-0.5	20.0
t-1,2-Dichloroethene	0.936	0.100	25.00	26.89	-7.6	20.0
Acrylonitrile	0.029	0.100	25.00	24.93	0.3	20.0
n-Hexane	0.595	0.100	25.00	27.94	-11.7	20.0
1,1-Dichloroethane	0.630	0.100	25.00	27.68	-10.7	20.0
Vinyl acetate	0.000	0.100	25.00	0.00	100.0	20.0
Isopropyl ether	0.914	0.100	25.00	28.01	-12.0	20.0
Chloroprene	0.651	0.100	25.00	27.01	-8.0	20.0
Ethyl-tert-butyl-ether	1.027	0.100	25.00	27.61	-10.4	20.0
2,2-Dichloropropane	0.855	0.100	25.00	27.96	-11.8	20.0
c-1,2-Dichloroethene	0.930	0.100	25.00	28.01	-12.0	20.0
2-Butanone (MEK)	0.066	0.100	25.00	23.48	6.1	20.0
Propionitrile	0.012	0.100	25.00	26.02	-4.1	20.0
Bromochloromethane	0.523	0.100	25.00	26.48	-5.9	20.0
Methacrylonitrile	0.135	0.100	25.00	27.20	-8.8	20.0
Chloroform	1.116	0.100	25.00	26.35	-5.4	20.0
1,1,1-Trichloroethane	1.375	0.100	25.00	26.47	-5.9	20.0
Dibromofluoromethane (Surr1)	0.210	0.100	25.00	25.44	-1.8	20.0

10/20/2012 11:28

Page 1 of 3 SPCC

4oct121400.SMS

ALAB: 00245

CONFIDENTIAL

LMC-PET-00001529

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
Carbon Tetrachloride	1.119	0.100	25.00	26.49	-6.0	20.0
Tetrahydrofuran	0.040	0.100	25.00	24.32	2.7	20.0
1,1-Dichloropropene	0.873	0.100	25.00	26.88	-7.5	20.0
Benzene	0.866	0.100	25.00	25.48	-1.9	20.0
1,2-Dichloroethane-d4 (Surr2)	0.287	0.100	25.00	25.63	-2.5	20.0
1,2-Dichloroethane	0.607	0.100	25.00	27.65	-10.6	20.0
tert-Amyl-methyl-ether	0.969	0.100	25.00	26.60	-6.4	20.0
Trichloroethene	1.337	0.100	25.00	26.14	-4.6	20.0
Methyl methacrylate	0.215	0.100	25.00	28.86	-15.4	20.0
1,2-Dichloropropane	0.360	0.100	25.00	27.27	-9.1	20.0
Dibromomethane	0.429	0.100	25.00	26.10	-4.4	20.0
1,4-Dioxane	0.000	0.100	25.00	0.00	100.0	20.0
Bromodichloromethane	0.981	0.100	25.00	26.55	-6.2	20.0
2-Chloroethyl vinyl ether	0.041	0.100	25.00	24.15	3.4	20.0
c-1,3-Dichloropropene	1.070	0.100	25.00	27.49	-10.0	20.0
4-Methyl-2-pentanone	0.284	0.100	25.00	27.14	-8.5	20.0
Toluene-d8 (Surr3)	1.353	0.100	25.00	25.28	-1.1	20.0
Toluene	3.295	0.100	25.00	26.11	-4.4	20.0
Ethyl methacrylate	0.179	0.100	25.00	24.25	3.0	20.0
2-Hexanone	0.181	0.100	25.00	24.46	2.2	20.0
t-1,3-Dichloropropene	0.517	0.100	25.00	28.06	-12.3	20.0
1,1,2-Trichloroethane	0.511	0.100	25.00	26.70	-6.8	20.0
Tetrachloroethene	0.152	0.100	25.00	26.77	-7.1	20.0
1,3-Dichloropropane	0.736	0.100	25.00	26.24	-4.9	20.0
Isobutyl alcohol	0.000	0.100	25.00	0.00	100.0	20.0
Dibromochloromethane	0.648	0.100	25.00	26.76	-7.0	20.0
1,2-Dibromoethane	0.664	0.100	25.00	27.21	-8.8	20.0
1-Chlorohexane	0.000	0.100	25.00	0.00	100.0	20.0
Chlorobenzene	2.053	0.100	25.00	25.40	-1.6	20.0
Ethylbenzene	6.932	0.100	25.00	26.10	-4.4	20.0
1,1,1,2-Tetrachloroethane	1.432	0.100	25.00	26.99	-8.0	20.0
p,m-Xylenes	6.634	0.100	50.00	52.32	-4.6	20.0
o-Xylene	6.770	0.100	25.00	26.37	-5.5	20.0
Styrene	4.194	0.100	25.00	27.18	-8.7	20.0
Bromoform	0.642	0.100	25.00	25.24	-0.9	20.0
Isopropylbenzene	7.175	0.100	25.00	26.13	-4.5	20.0
cis-1,4-Dichloro-2-butene	0.122	0.100	25.00	28.09	-12.3	20.0
p-Bromofluorobenzene (Surr4)	1.229	0.100	25.00	24.76	1.0	20.0
1,1,2,2-Tetrachloroethane	1.004	0.100	25.00	25.71	-2.8	20.0
Bromobenzene	3.225	0.100	25.00	27.09	-8.4	20.0
n-Propylbenzene	8.485	0.100	25.00	26.50	-6.0	20.0
trans-1,4-Dichloro-2-butene	0.536	0.100	25.00	26.63	-6.5	20.0
1,2,3-Trichloropropane	0.663	0.100	25.00	24.80	0.8	20.0
2-Chlorotoluene	5.215	0.100	25.00	25.61	-2.5	20.0
1,3,5-Trimethylbenzene	7.598	0.100	25.00	25.29	-1.2	20.0
4-Chlorotoluene	5.129	0.100	25.00	26.03	-4.1	20.0
tert-Butylbenzene	9.638	0.100	25.00	26.12	-4.5	20.0
1,2,4-Trimethylbenzene	7.168	0.100	25.00	24.91	0.3	20.0
Pentachloroethane	0.982	0.100	25.00	25.14	-0.5	20.0
sec-Butylbenzene	7.792	0.100	25.00	26.12	-4.5	20.0

10/20/2012 11:28

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4oct121400.SMS

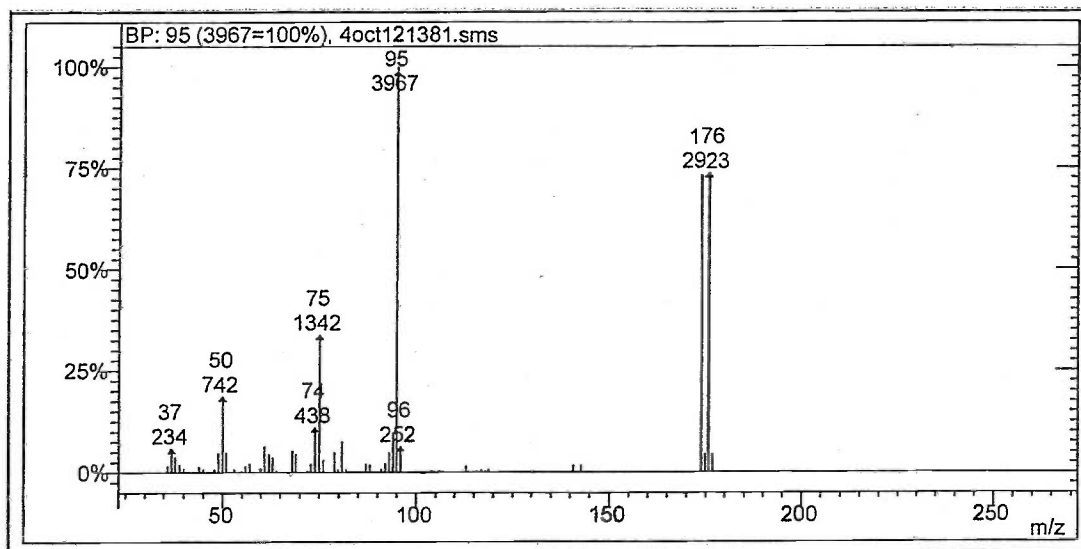
ALAB : 00246

CONFIDENTIAL

LMC-PET-00001530

Compound	RRF	MinRRF	Ci	Cc	% D	Max %D
4-Isopropyltoluene	5.609	0.100	25.00	25.72	-2.9	20.0
1,3-Dichlorobenzene	4.019	0.100	25.00	26.10	-4.4	20.0
1,4-Dichlorobenzene	4.081	0.100	25.00	26.38	-5.5	20.0
Benzyl Chloride	0.000	0.100	25.00	0.00	100.0	20.0
n-Butylbenzene	5.912	0.100	25.00	25.49	-2.0	20.0
1,2-Dichlorobenzene	3.724	0.100	25.00	25.54	-2.1	20.0
1,2-Dibromo-3-chloropropane	0.402	0.100	25.00	25.51	-2.0	20.0
1,2,4-Trichlorobenzene	2.298	0.100	25.00	23.20	7.2	20.0
Hexachlorobutadiene	1.635	0.100	25.00	24.87	0.5	20.0
Naphthalene	1.733	0.100	25.00	23.58	5.7	20.0
1,2,3-Trichlorobenzene	2.219	0.100	25.00	23.10	7.6	20.0

BFB 8260B Report



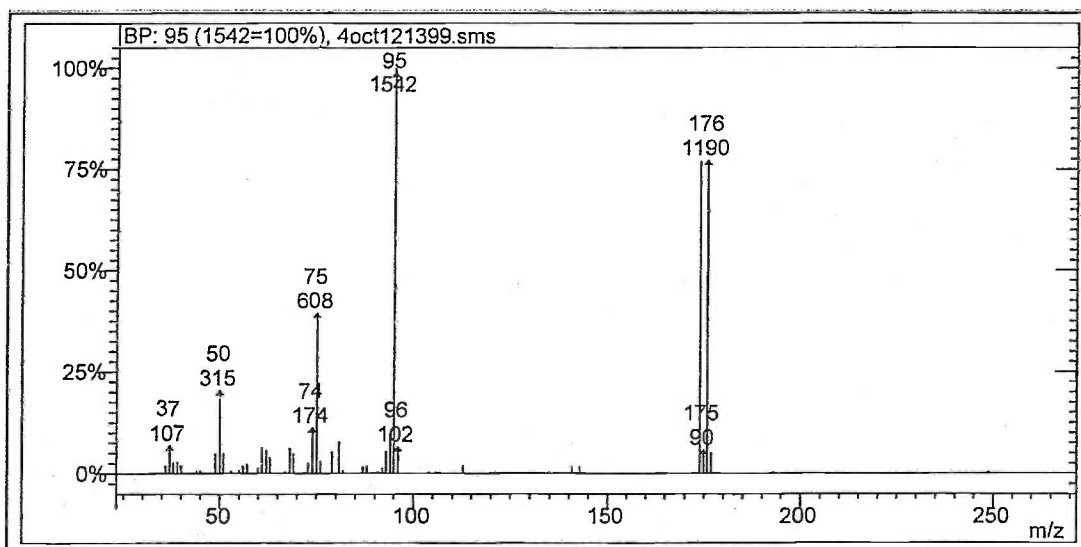
Lab File ID: 4oct121381.sms

Injection Date: 10/19/2012

Injection Time: 1:51

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	18.70	PASS
75	30-60% of m/z 95	33.83	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.35	PASS
173	<2% of m/z 174	0.24	PASS
174	>50% of m/z 95	73.08	PASS
175	5-9% of m/z 174	6.07	PASS
176	>95% but <101% of m/z 174	100.83	PASS
177	5-9% of m/z 176	5.92	PASS

BFB 8260B Report



Lab File ID: 4oct121399.sms

Injection Date: 10/19/2012

Injection Time: 16:39

m/z	Acceptance Criterion	Value	Pass/Fail
50	15-40% of m/z 95	20.43	PASS
75	30-60% of m/z 95	39.43	PASS
95	base peak	100.00	PASS
96	5-9% of m/z 95	6.61	PASS
173	<2% of m/z 174	0.25	PASS
174	>50% of m/z 95	76.78	PASS
175	5-9% of m/z 174	7.60	PASS
176	>95% but <101% of m/z 174	100.51	PASS
177	5-9% of m/z 176	6.72	PASS

8260B Volatile Organics

Associated Labs

GCMS # 6

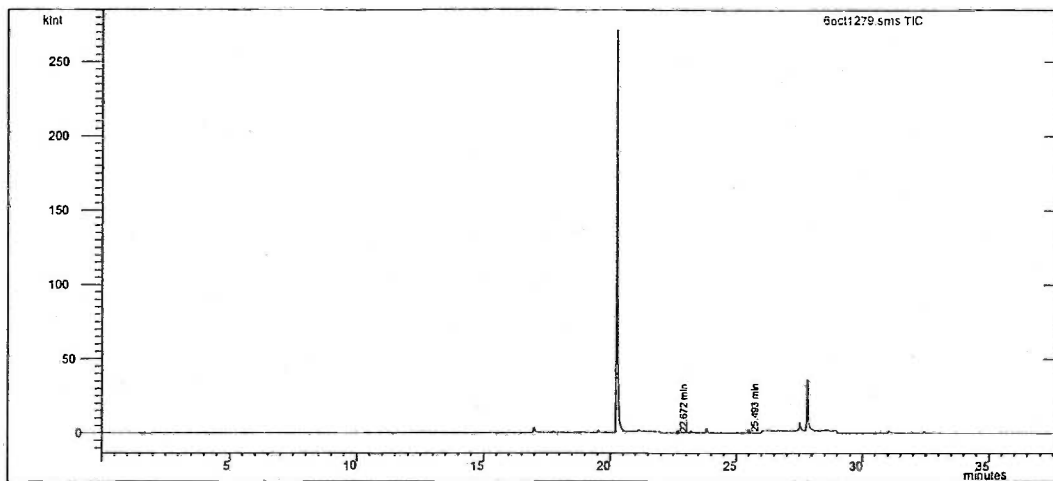
Data File Name: c:\varianws\data\6oct12\6oct1279.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 312094-003-5 5ml

Acquisition Date: 10/23/2012 3:39:10 PM

Inj. Notes: pH<2

Operator Name: RyanP



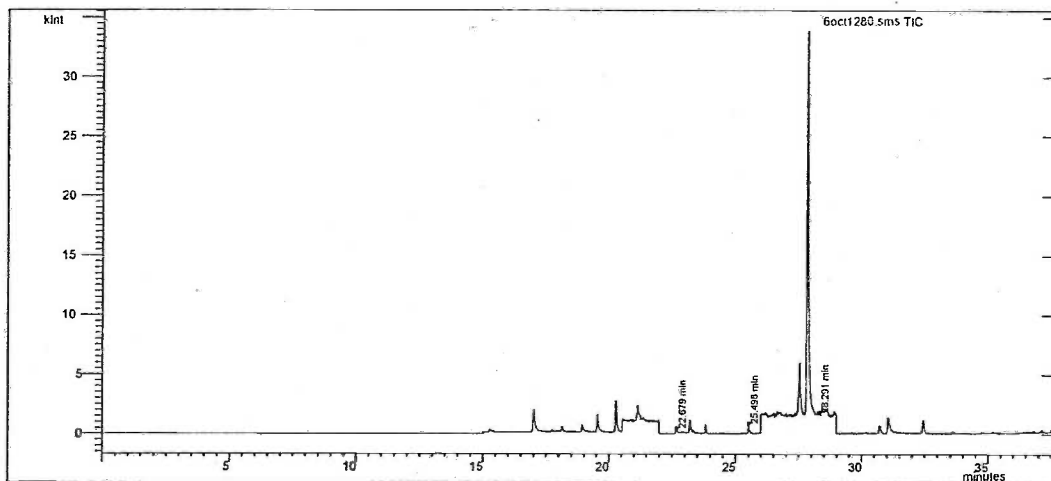
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.493	117.0+82.0	Chlorobenzene-d5(IS2)	999	2613	1.000
22.672	98.0+70.0	Toluene-d8 (Surr 3)	948	933	0.937

8260B Volatile Organics

Associated Labs

GCMS # 6

Data File Name: c:\varianws\data\6oct12\6oct1280.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name: 312094-004-3 5ml Acquisition Date: 10/23/2012 4:38:22 PM
Inj. Notes: pH<2 Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.498	117.0+82.0	Chlorobenzene-d5(1S2)	999	2112	1.000
28.291	75.0	1,2,3 - TCP	1000	265	0.002
22.679	98.0+70.0	Toluene-d8 (Surr 3)	902	843	1.047

8260B Volatile Organics

Associated Labs

GCMS # 6

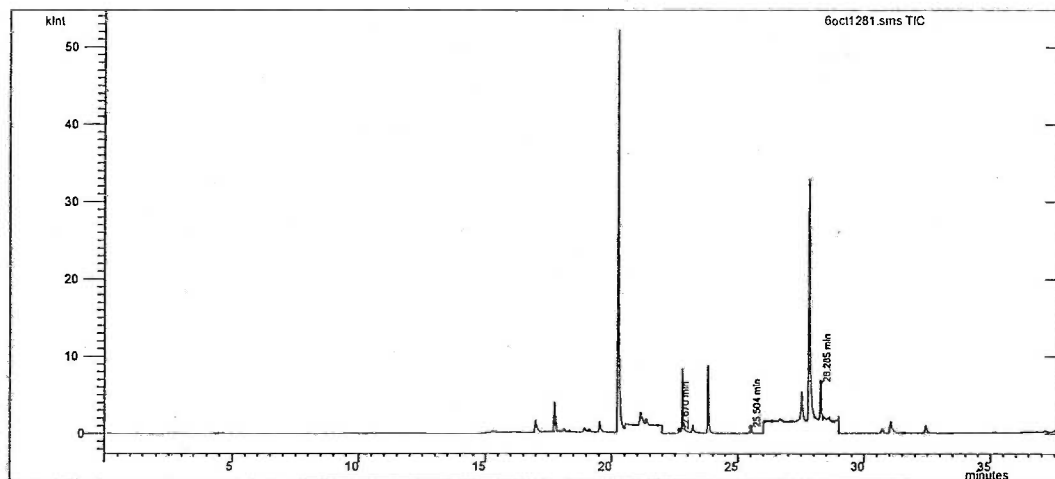
Data File Name: c:\varianws\data\6oct12\6oct1281.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 312094-005-7 5ml

Acquisition Date: 10/23/2012 5:35:11 PM

Inj. Notes: pH<2

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.504	117.0+82.0	Chlorobenzene-d5(IS2)	999	2012	1.000
28.285	75.0	1,2,3 - TCP	1000	17610	0.164
22.670	98.0+70.0	Toluene-d8 (Surr 3)	891	790	1.030

T.H

8260B Volatile Organics

Associated Labs

GCMS # 6

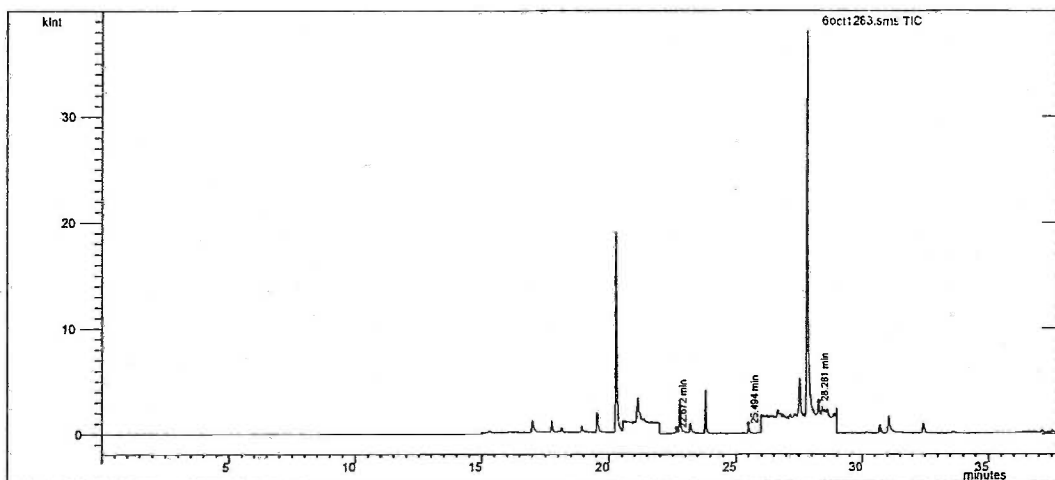
Data File Name: c:\varianws\data\6oct12\6oct1283.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 312094-005-7 1ml

Acquisition Date: 10/23/2012 7:33:19 PM

Inj. Notes: 1:5 pH<2

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.494	117.0+82.0	Chlorobenzene-d5(1S2)	999	2446	1.000
28.281	75.0	1,2,3 - TCP	1000	4623	0.035
22.672	98.0+70.0	Toluene-d8 (Surr 3)	934	1143	1.226

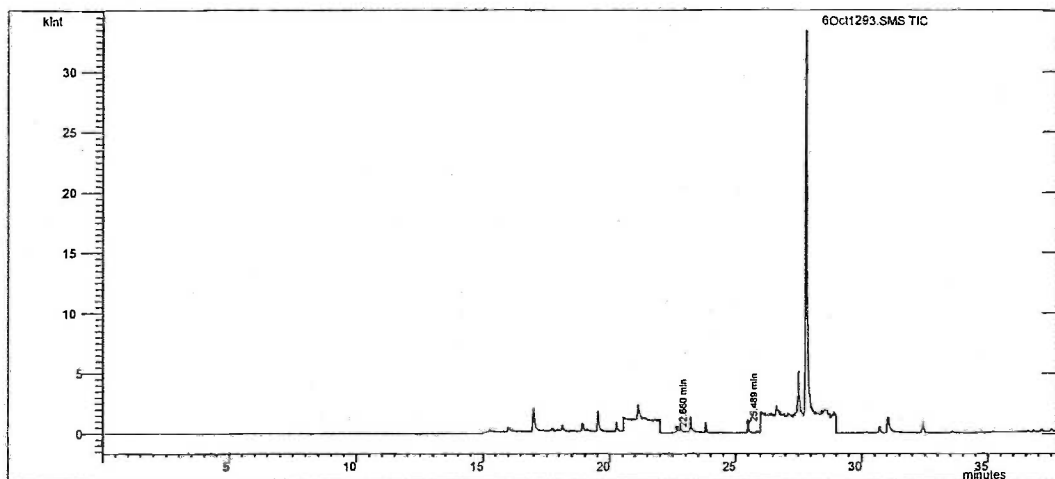
.175

8260B Volatile Organics

Associated Labs

GCMS # 6

Data File Name:	c:\VarianWS\data\6Oct12\6Oct1293.S	Calc Method:	C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name:	312094-006-5 5ml	Acquisition Date:	10/24/2012 5:16:08 PM
Inj. Notes:	pH<2	Operator Name:	RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.489	117.0+82.0	Chlorobenzene-d5(IS2)	999	2281	1.000
22.660	98.0+70.0	Toluene-d8 (Surr 3)	950	836	0.962

ALAB: 00253

Associated Labs QCBatch BenchSheet

QCBatchID: QC130838

Created Date: 10/24/2012
Created By: akk
Matrix: Water

Test: 8260M MS/MS
Method: EPA 8260M
Instrument: 10/24/2012
Analysis Date: akk
Analysis Employee:

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. W/Vol	Final Vol.	Extraction Date	Extraction Time	Comments
0	LCS_1									
1	LCSD_1									
2	Method Blank_1									
3	311995-002	Equipment Blank	311995-002							
4	312094-003	C-1-CW06	312094-003							
5	312094-004	B-5-CW02	312094-004							
6	312094-005	M-W-6	312094-005							

Initial Calib STD	
Calib Check STD	
Internal STD	W#12101901
Surrogate STD	W#12101901
LCS STD	
MS STD	

Solvent Manufacturer and Lot	
Sand Manufacturer and Lot	
Na2SO4 Manufacturer and Lot	
Surrogate Lot	
Spike Lot	
Prep By Signature	

Wednesday, October 24, 2012

Varian Star Workstation - RecalcList Wed Oct 24 13:32:02 2012

RecalcList: C:\Documents and Settings\ragtimerye\Desktop\temp recalc.rcl

Created: Tue Oct 23 09:36:43 2012

Modified: Wed Oct 24 13:24:33 2012

Line	Sample Name	Data File	Recalc Notes
1	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1274.SMS	none
2	0.02ppb tcp lcs	c:\varianws\data\6oct12\6Oct1275.SMS	none
3	0.02ppb tcp lcsd	c:\varianws\data\6oct12\6Oct1276.SMS	none
4	method blank	c:\varianws\data\6oct12\6Oct1277.SMS	none
5	311995-002-5 5ml	c:\varianws\data\6oct12\6Oct1278.SMS	below
	Notes pH<2		
6	312094-003-5 5ml	c:\varianws\data\6oct12\6Oct1279.SMS	below
	Notes pH<2		
7	312094-004-3 5ml	c:\varianws\data\6oct12\6Oct1280.SMS	below
	Notes pH<2		
8	312094-005-7 5ml	c:\varianws\data\6oct12\6Oct1281.SMS	below
	Notes pH<2		
9	~~312094-006-5 5ml~~	c:\varianws\data\6oct12\6Oct1282.SMS	below
	Notes pH<2		
10	312094-005-7 1ml	c:\varianws\data\6oct12\6Oct1283.SMS	below
	Notes pH<2		

AKK
10/24

ALAB: 00255

CONFIDENTIAL

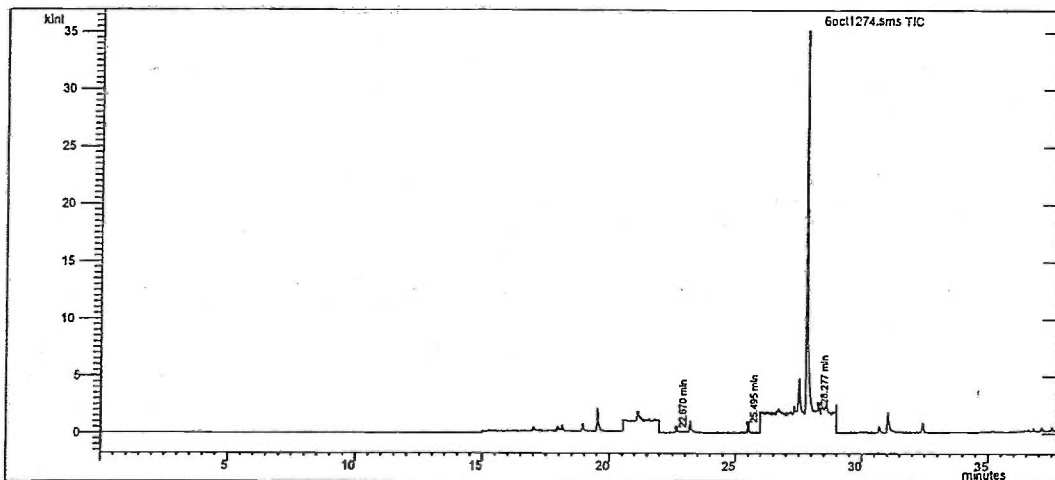
LMC-PET-00001540

8260B Volatile Organics

Associated Labs

GCMS # 6

Data File Name: c:\varianws\data\6oct12\6oct1274.sms Calc Method: C:\VarianVWS\methods\TCP-Q_102212.mth
Sample Name: 0.02ppb tcp ccv Acquisition Date: 10/23/2012 10:25:55 AM
Inj. Notes: w#12100901 Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(IS2)	999	2151	1.000
28.277	75.0	1,2,3 - TCP	1000	2269	0.020
22.670	98.0+70.0	Toluene-d8 (Surr 3)	933	902	1.100

8260B Volatile Organics

Associated Labs

GCMS # 6

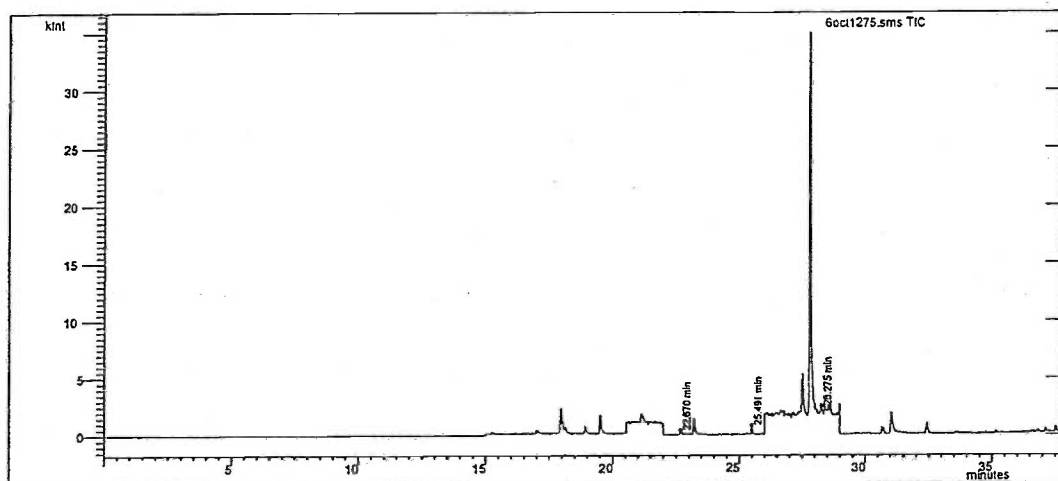
Data File Name: c:\varianws\data\6oct12\6oct1275.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.02ppb tcp lcs

Acquisition Date: 10/23/2012 11:23:04 AM

Inj. Notes: w#12100902

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.491	117.0+82.0	Chlorobenzene-d5(IS2)	999	2121	1.000
28.275	75.0	1,2,3 - TCP	1000	2482	0.022
22.670	98.0+70.0	Toluene-d8 (Surr 3)	894	837	1.035

8260B Volatile Organics

Associated Labs

GCMS # 6

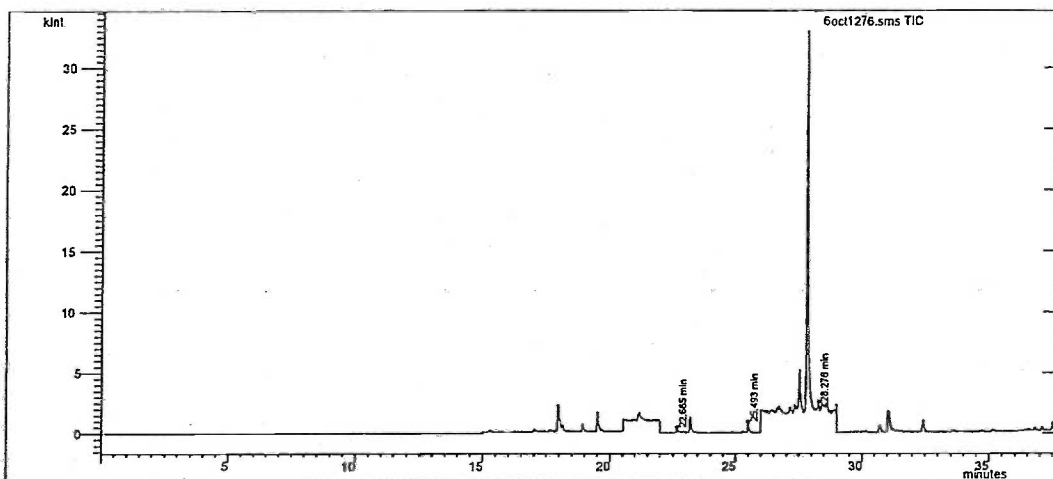
Data File Name: c:\varianws\data\6oct12\6oct1276.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.02ppb tcp lcstd

Acquisition Date: 10/23/2012 12:31:06 PM

Inj. Notes: w#12100902

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.493	117.0+82.0	Chlorobenzene-d5(IS2)	999	2050	1.000
28.276	75.0	1,2,3 - TCP	1000	3028	0.028
22.665	98.0+70.0	Toluene-d8 (Surr 3)	917	881	1.127

8260B Volatile Organics

Associated Labs

GCMS # 6

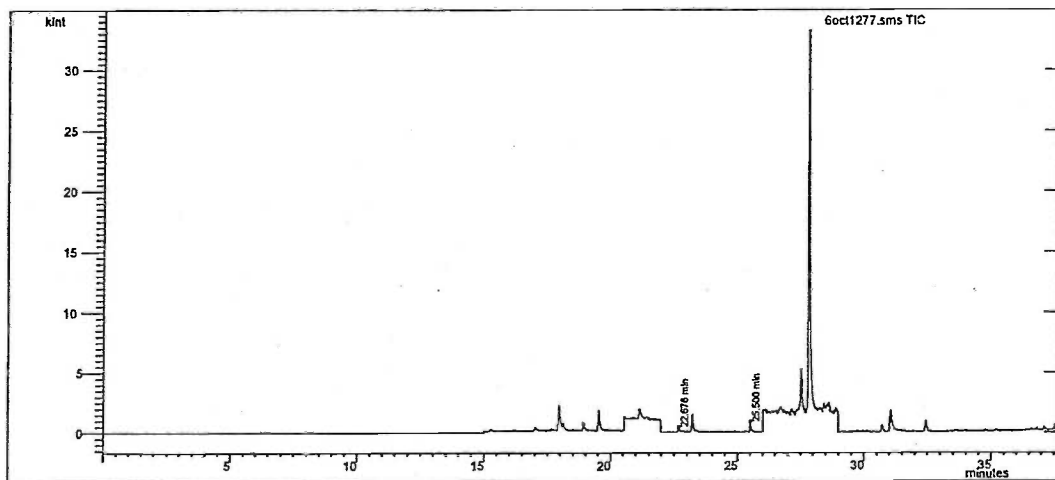
Data File Name: c:\varianws\data\6oct12\6oct1277.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: method blank

Acquisition Date: 10/23/2012 1:28:21 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.500	117.0+82.0	Chlorobenzene-d5(1S2)	999	2181	1.000
22.678	98.0+70.0	Toluene-d8 (Surr 3)	896	940	1.130

ALAB : 00259

Associated Labs QCBatch Bench Sheet

QCBatchID: QC1130844

Created Date: 10/25/2012
Created By: akk
Matrix: Water

Test: 8260M MS/MS
Method: EPA 8260M
Instrument: VOA-MS (group)
Analysis Date: 10/25/2012
Analysis Employee: akk

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Int. Wt/Vol	Final Vol	Extraction Date	Time	Comments
0	LCS_1									
1	LCSD_1									
2	Method Blank_1									
3	311995-004	B-6-CW03R	311995-004							
4	312080-008	Equipment Blank	312080-008							
5	312094-006	C-1-CW08	312094-006							

InitialCalbSTD	
CalibCheckSTD	
InternalSTD	W#12101901
SurrogateSTD	W#12101901
LCSSTD	
MSSTD	

Solvent Manufacturer and Lot	
Sand Manufacturer and Lot	
Na2SO4 Manufacturer and Lot	
Surrogate Lot	
Spike Lot	
Prep. By Signature	

ALAB: 00260

Varian Star Workstation - RecalcList Thu Oct 25 09:18:38 2012

RecalcList: C:\VarianWS\8260LIST.RCL

Created: Thu Sep 10 08:16:26 2009

Modified: Thu Oct 25 09:18:31 2012

Line	Sample Name	Data File	Recalc Notes
1	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1286.SMS	none
2	0.02ppb tcp lcs	c:\varianws\data\6oct12\6Oct1287.SMS	none
3	0.02ppb tcp lcsd	c:\varianws\data\6oct12\6Oct1288.SMS	none
4	~~method blank~~	c:\varianws\data\6oct12\6Oct1289.SMS	none
5	~~312080-008-3 5ml~~	c:\varianws\data\6oct12\6Oct1290.SMS	none
6	method blank	c:\varianws\data\6oct12\6Oct1291.SMS	none
7	312080-008-3 5ml	c:\varianws\data\6oct12\6Oct1292.SMS	below
	Notes pH<2		
8	312094-006-5 5ml	c:\varianws\data\6oct12\6Oct1293.SMS	below
	Notes pH<2		
9	311995-004-2 5ml	c:\varianws\data\6oct12\6Oct1294.SMS	below
	Notes pH<2		
10	~~311995-005-1 5ml~~	c:\varianws\data\6oct12\6Oct1295.SMS	below
	Notes pH<2		
11	~~311995-007-4 5ml~~	c:\varianws\data\6oct12\6Oct1296.SMS	below
	Notes pH<2		
12	~~311995-005-1 5ml~~	c:\varianws\data\6oct12\6Oct1297.SMS	below
	Notes pH<2		
13	~~311995-010-10 5ml~~	c:\varianws\data\6oct12\6Oct1298.SMS	below
	Notes pH<2		
14	rinse	c:\varianws\data\6oct12\6Oct1299.SMS	none

AKK
10/25

ALAB: 00261

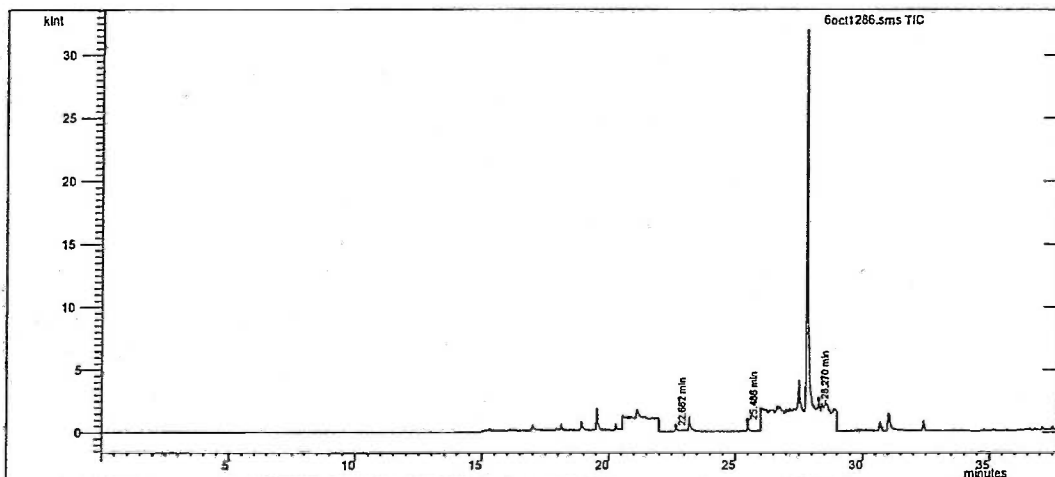
CONFIDENTIAL

LMC-PET-00001546

8260B Volatile Organics

Associated Labs
GCMS # 6

Data File Name: c:\varianws\data\6oct12\6oct1286.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name: 0.02ppb tcp ccv Acquisition Date: 10/24/2012 10:21:31 AM
Inj. Notes: w#12100901 Operator Name: RyanP



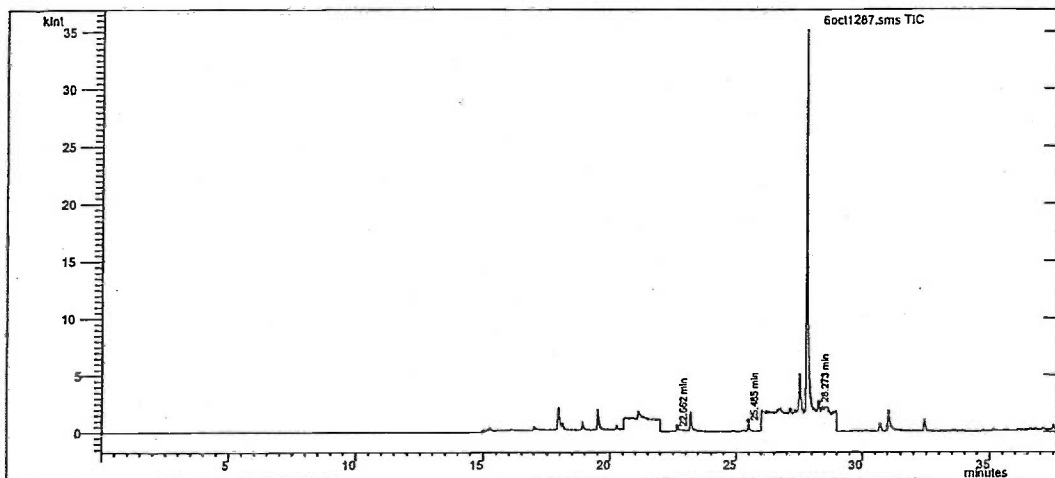
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.486	117.0+82.0	Chlorobenzene-d5(1S2)	997	2158	1.000
28.270	75.0	1,2,3 - TCP	1000	2207	0.019
22.662	98.0+70.0	Toluene-d8 (Surr 3)	894	828	1.007

8260B Volatile Organics

Associated Labs

GCMS # 6

Data File Name: c:\varianws\data\6oct12\6oct1287.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name: 0.02ppb tcp lcs Acquisition Date: 10/24/2012 11:18:23 AM
Inj. Notes: w#12100902 Operator Name: RyanP



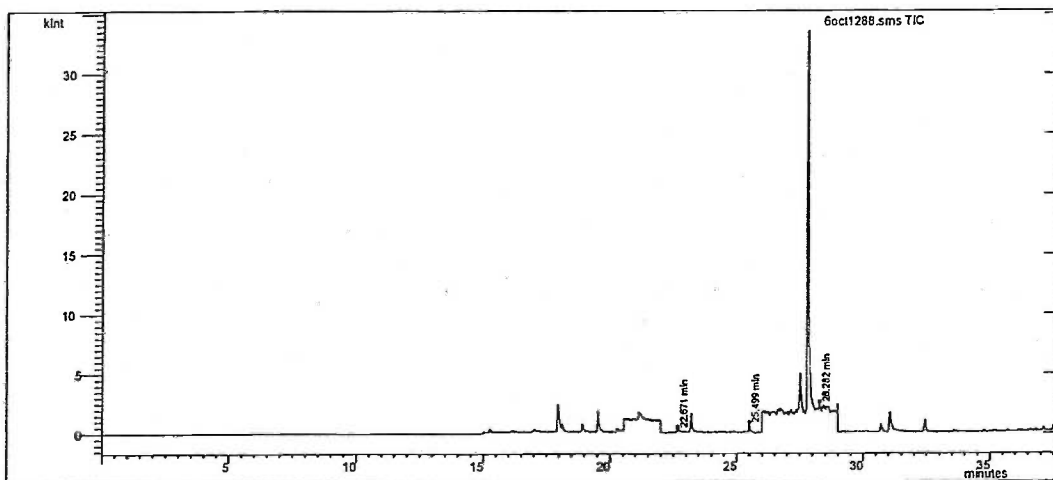
RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.485	117.0+82.0	Chlorobenzene-d5(IS2)	999	2260	1.000
28.273	75.0	1,2,3 - TCP	1000	2708	0.022
22.662	98.0+70.0	Toluene-d8 (Surr 3)	947	873	1.013

8260B Volatile Organics

Associated Labs

GCMS # 6

Data File Name: c:\varianws\data\6oct12\6oct1288.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth
Sample Name: 0.02ppb tcp lcsd Acquisition Date: 10/24/2012 12:16:04 PM
Inj. Notes: w#12100902 Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.499	117.0+82.0	Chlorobenzene-d5(IS2)	999	2224	1.000
28.282	75.0	1,2,3 - TCP	1000	2225	0.019
22.671	98.0+70.0	Toluene-d8 (Surr 3)	927	790	0.932

8260B Volatile Organics

Associated Labs

GCMS # 6

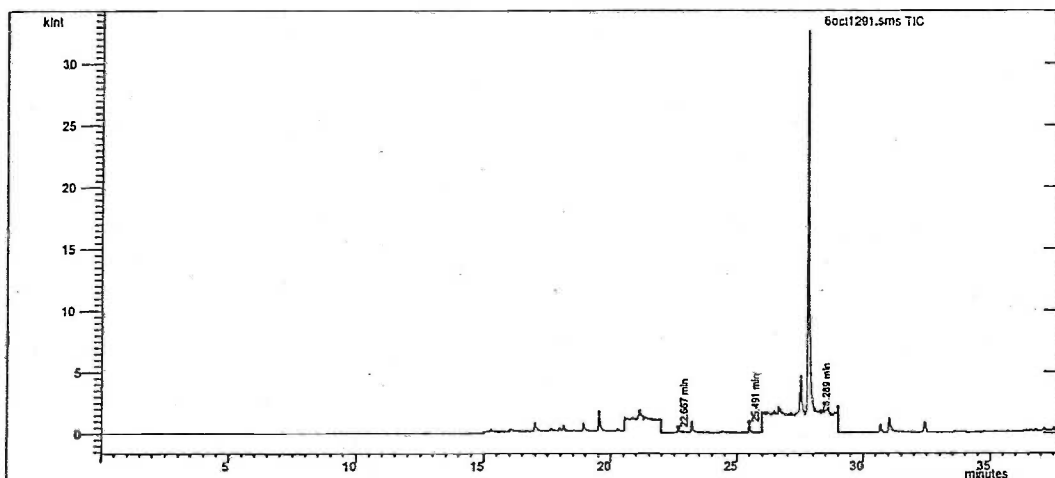
Data File Name: c:\varianws\data\6oct12\6oct1291.sms Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: method blank

Acquisition Date: 10/24/2012 3:10:04 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.491	117.0+82.0	Chlorobenzene-d5(IS2)	999	2163	1.000
28.289	75.0	1,2,3 - TCP	1000	322	0.003
22.667	98.0+70.0	Toluene-d8 (Surr 3)	950	892	1.082

Varian Star Workstation - RecalcList Tue Oct 23 08:54:41 2012

RecalcList: C:\Documents and Settings\ragtimerye\Desktop\temp recalc.rcl

Created: Tue Sep 11 16:52:55 2012

Modified: Tue Oct 23 08:34:46 2012

TCP-Q-102212

Line	Sample Name	Data File	Recalc Notes
1	rinse	c:\varianws\data\6oct12\6Oct1263.SMS	none
2	0.005ppb tcp ic	c:\varianws\data\6oct12\6Oct1264.SMS	none
3	0.01ppb tcp ic	c:\varianws\data\6oct12\6Oct1265.SMS	none
4	0.02ppb tcp ic	c:\varianws\data\6oct12\6Oct1266.SMS	none
5	0.05ppb tcp ic	c:\varianws\data\6oct12\6Oct1267.SMS	none
6	0.1ppb tcp ic	c:\varianws\data\6oct12\6Oct1268.SMS	none
7	rinse	c:\varianws\data\6oct12\6Oct1269.SMS	none
8	rinse	c:\varianws\data\6oct12\6Oct1270.SMS	none
9	0.02ppb tcp ccv	c:\varianws\data\6oct12\6Oct1271.SMS	none

ALAB: 00266

CONFIDENTIAL

LMC-PET-00001551

Calibration Curves Report

Method:	c:\varianws\methods\tcp-q_102212.mth	Last Calibration:	10/23/2012 9:40 AM
Recalc Method:	...p-q_102212.mth	Cmpd. Table Updated:	10/23/2012 9:42 AM
Sample List:	N/A	Detector:	2000 Mass Spec
Sequence:	N/A	Workstation Version:	Version 6.9
MS Workstation		Calibration Type:	Internal Standard Analysis
Peak Measurement:	Area		

1,2,3 - TCP

Curve Fit: Linear, Origin: Force, Weight: 1/nX2

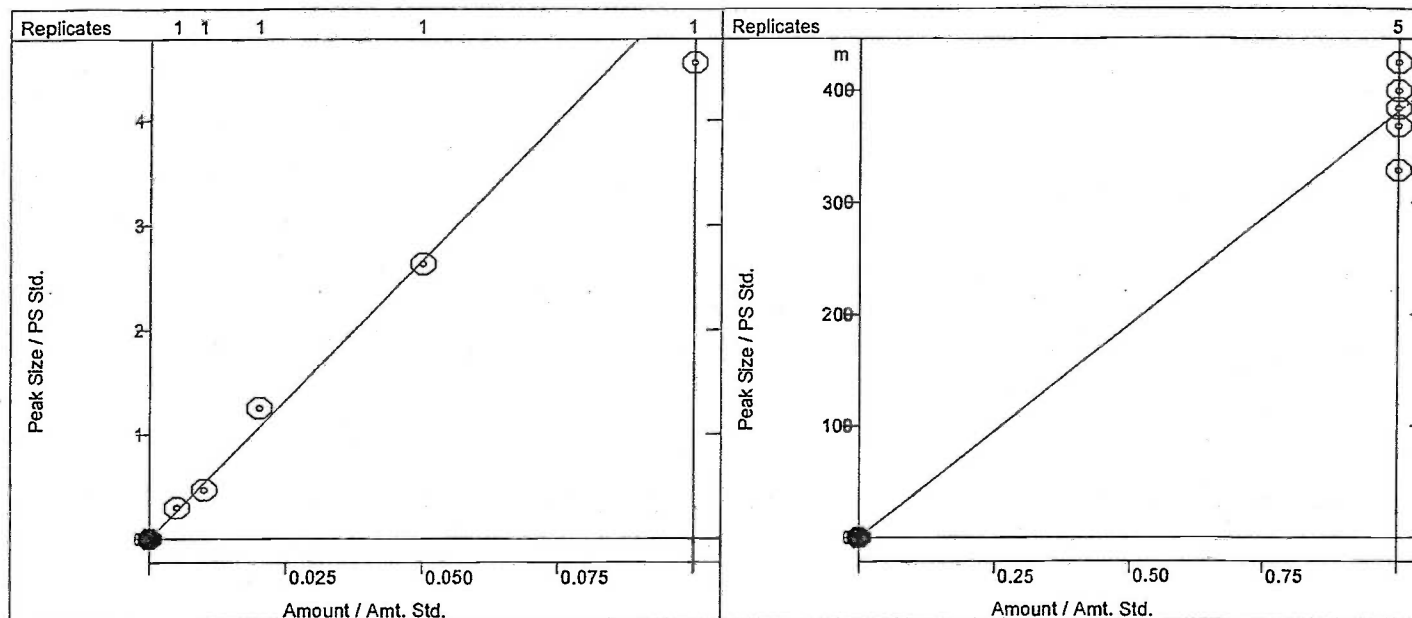
Resp. Fact. RSD: 14.10%, Coeff. Det.(r2): 0.990412

 $y = +53.3889x$

Toluene-d8 (Surr 3)

Curve Fit: Linear, Origin: Include (Ignore), Weight: 1/nX2

Resp. Fact. RSD: 9.450%, Coeff. Det.(r2): 0.958893

 $y = +0.3813x + 1.1102e-16$ 

ALAB : 00267

8260B Volatile Organics

Associated Labs

GCMS # 6

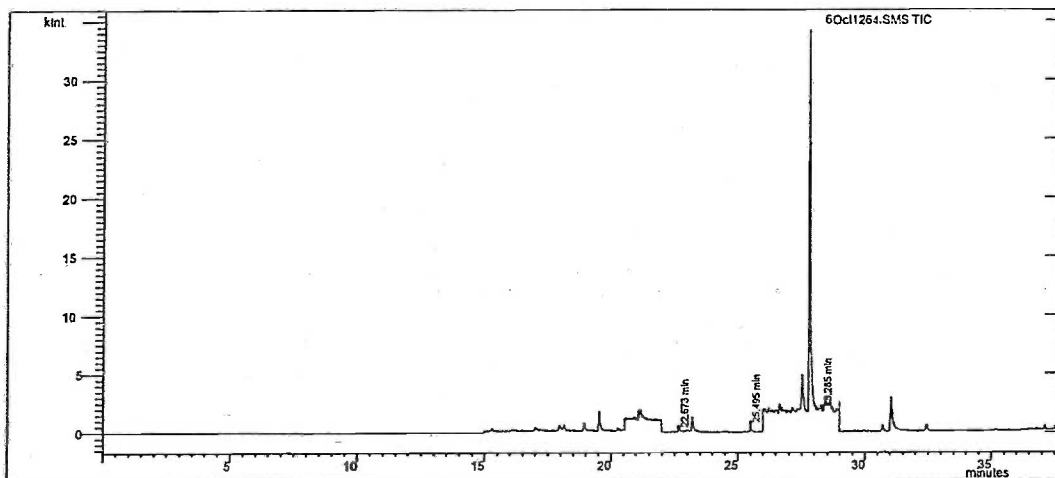
Data File Name: c:\varianws\data\6oct12\6Oct1264.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.005ppb tcp ic

Acquisition Date: 10/22/2012 2:00:44 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(1S2)	998	2092	1.000
28.285	75.0	1,2,3 - TCP	1000	621	0.006
22.673	98.0+70.0	Toluene-d8 (Surr 3)	919	688	0.862

ALAB : 00268

8260B Volatile Organics

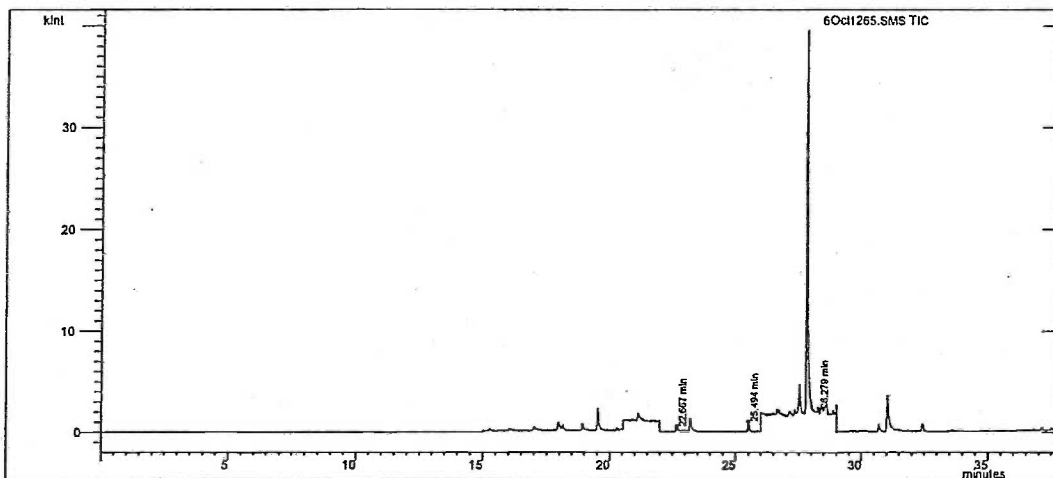
Associated Labs

GCMS # 6

Data File Name: c:\varianws\data\6oct12\6Oct1265.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.01ppb tcp ic Acquisition Date: 10/22/2012 3:00:07 PM

Inj. Notes: Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.494	117.0+82.0	Chlorobenzene-d5(1S2)	999	2434	1.000
28.279	75.0	1,2,3 - TCP	1000	1139	0.009
22.667	98.0+70.0	Toluene-d8 (Surr 3)	944	1035	1.115

8260B Volatile Organics

Associated Labs

GCMS # 6

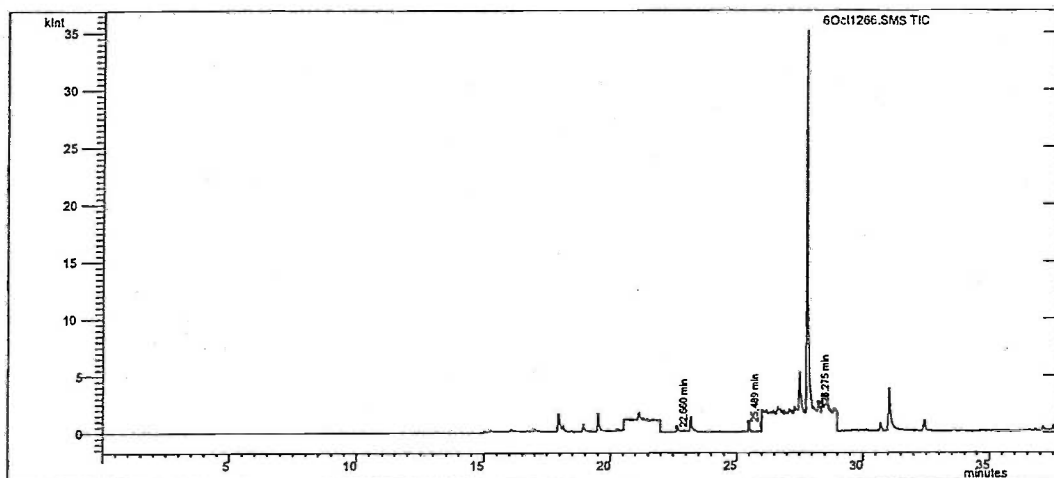
Data File Name: c:\varianws\data\6oct12\6Oct1266.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.02ppb tcp ic

Acquisition Date: 10/22/2012 4:03:26 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.489	117.0+82.0	Chlorobenzene-d5(1S2)	998	2205	1.000
28.275	75.0	1,2,3 - TCP	1000	2760	0.023
22.660	98.0+70.0	Toluene-d8 (Surr 3)	955	812	0.966

8260B Volatile Organics

Associated Labs

GCMS # 6

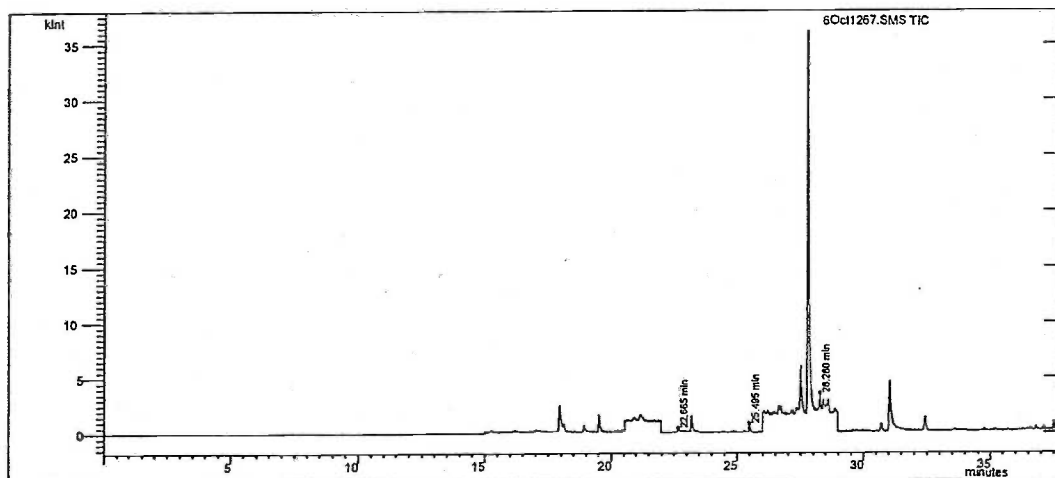
Data File Name: c:\varianws\data\6oct12\6Oct1267.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.05ppb tcp ic

Acquisition Date: 10/22/2012 5:05:50 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.495	117.0+82.0	Chlorobenzene-d5(1S2)	998	2183	1.000
28.280	75.0	1,2,3 - TCP	1000	5548	0.048
22.665	98.0+70.0	Toluene-d8 (Surr 3)	892	873	1.049

8260B Volatile Organics

Associated Labs
GCMS # 6

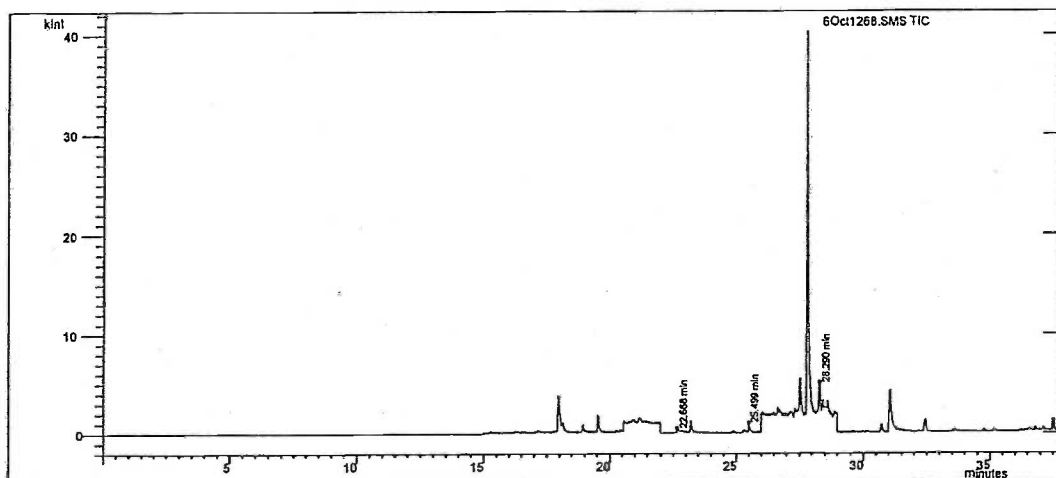
Data File Name: c:\varianws\data\6oct12\6Oct1268.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.1ppb tcp ic

Acquisition Date: 10/22/2012 6:11:48 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.499	117.0+82.0	Chlorobenzene-d5(IS2)	999	2444	1.000
28.290	75.0	1,2,3 - TCP	1000	11238	0.086
22.668	98.0+70.0	Toluene-d8 (Surr 3)	873	949	1.018

8260B Volatile Organics

Associated Labs

GCMS # 6

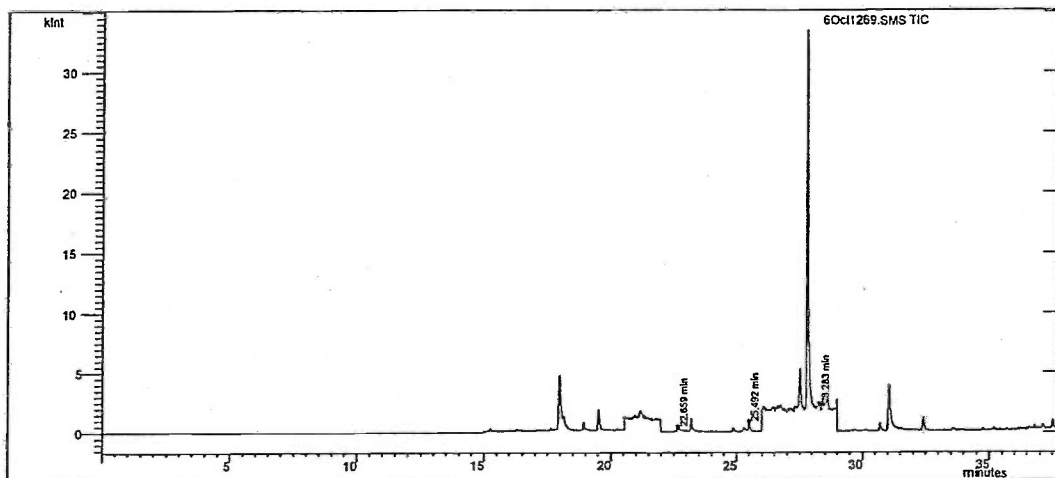
Data File Name: c:\varianws\data\6oct12\6Oct1269.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: rinse

Acquisition Date: 10/22/2012 7:08:34 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.492	117.0+82.0	Chlorobenzene-d5(IS2)	999	2075	1.000
28.283	75.0	1,2,3 - TCP	1000	1236	0.011
22.659	98.0+70.0	Toluene-d8 (Surr 3)	949	774	0.978

8260B Volatile Organics

Associated Labs

GCMS # 6

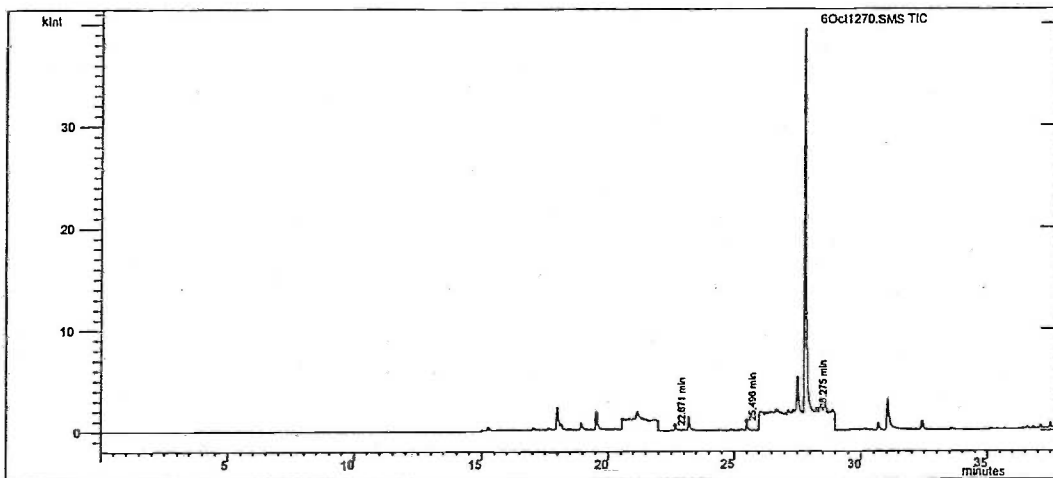
Data File Name: c:\varianws\data\6oct12\6Oct1270.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: rinse

Acquisition Date: 10/22/2012 8:05:38 PM

Inj. Notes:

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.496	117.0+82.0	Chlorobenzene-d5(IS2)	999	2288	1.000
28.275	75.0	1,2,3 - TCP	1000	729	0.006
22.671	98.0+70.0	Toluene-d8 (Surr 3)	887	817	0.937

8260B Volatile Organics

Associated Labs

GCMS # 6

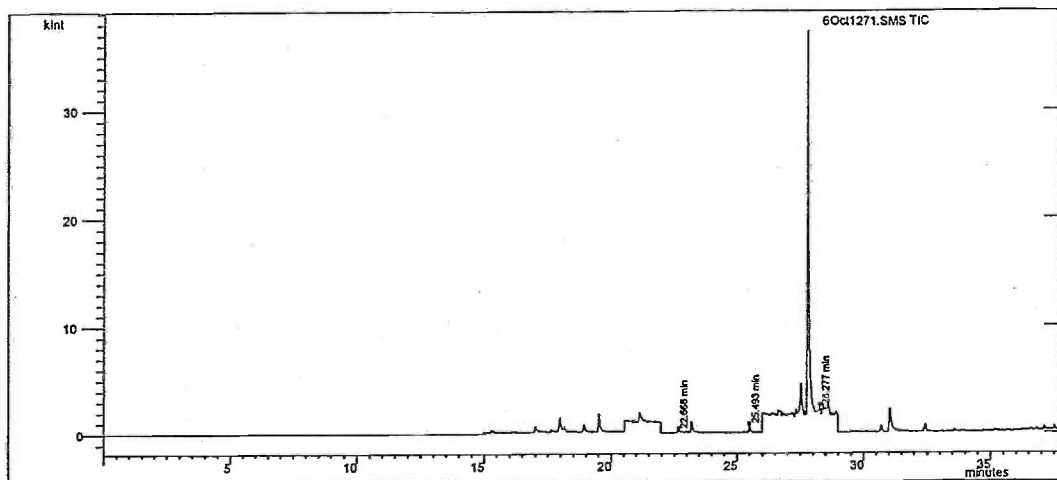
Data File Name: c:\varianws\data\6oct12\6Oct1271.SMS Calc Method: C:\VarianWS\methods\TCP-Q_102212.mth

Sample Name: 0.02ppb tcp ccv

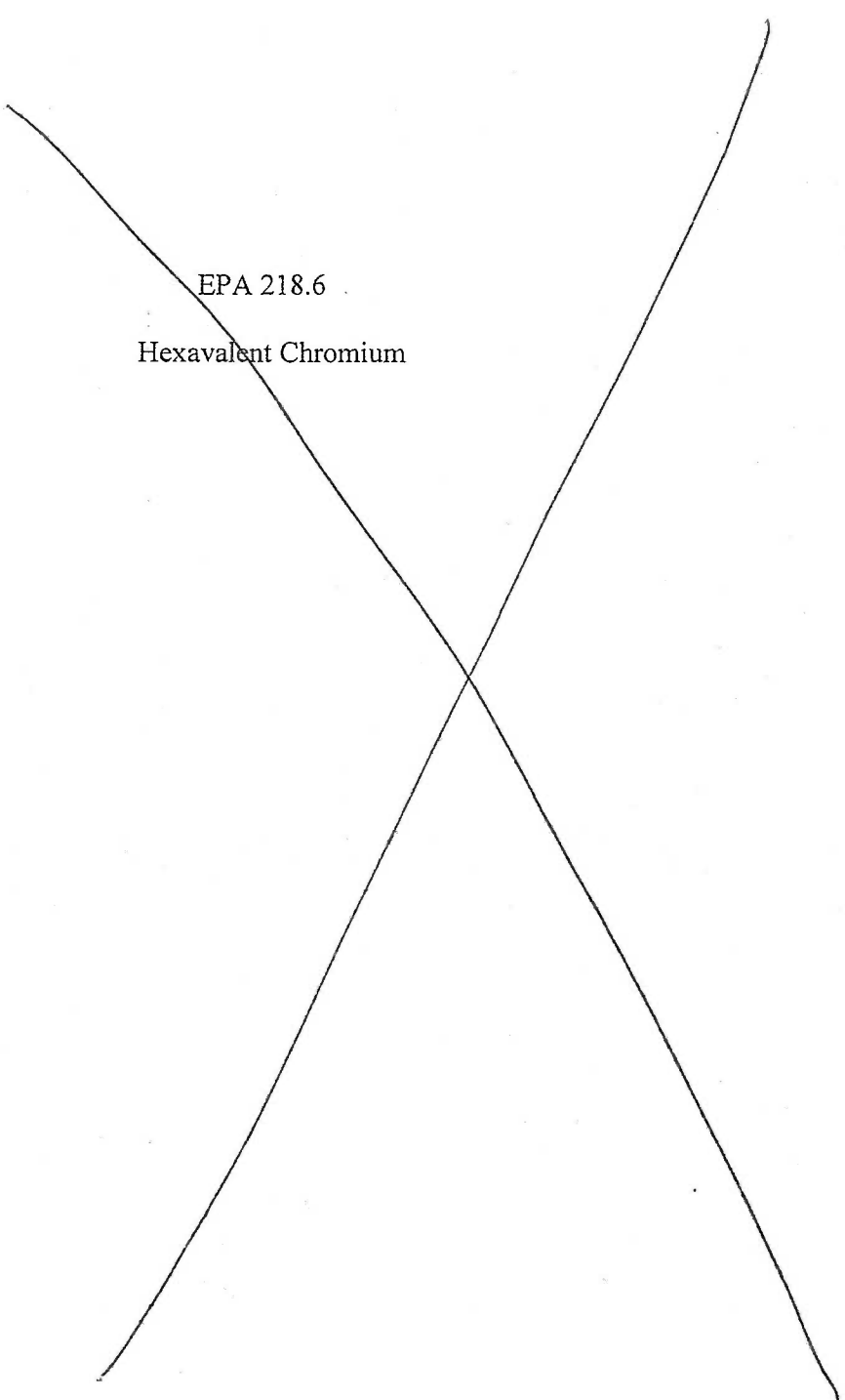
Acquisition Date: 10/22/2012 9:02:30 PM

Inj. Notes: w#12100901

Operator Name: RyanP



RT	Quan Ions	Compound Name	R.Match	Area	Amount
25.493	117.0+82.0	Chlorobenzene-d5(IS2)	999	2394	1.000
28.277	75.0	1,2,3 - TCP	1000	2663	0.021
22.668	98.0+70.0	Toluene-d8 (Surr 3)	927	925	1.014



EPA 218.6

Hexavalent Chromium

ALAB : 00276

CONFIDENTIAL

LMC-PET-00001561

SM 5310B

TOC

ALAB : 00277

CONFIDENTIAL

LMC-PET-00001562

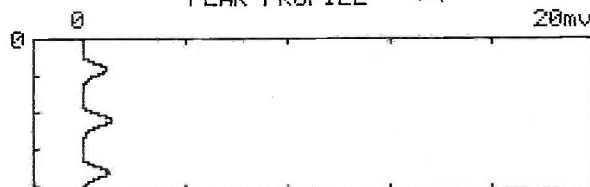
SAMPLE NAME : 1

TYPE : NPOC UIAL : 18 31 2094-2
[INJ 80uL, C# TC2 ,DL 1, SP 3.0min,
ACID 0.0%, #WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	4.157	0.490	TC2	80	1
2	5.027E	0.607	TC2	80	1
3	4.358	0.517	TC2	80	1

MN 4.258 0.504
SD 0.14 0.02
CV 3.34 % 3.78 % 0.5mg/L

PEAK PROFILE *dp*



DATE 10(OCT)-16-2012 13:45

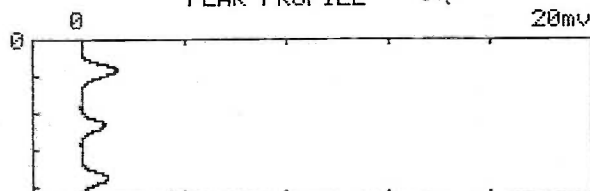
SAMPLE NAME : 1

TYPE : NPOC UIAL : 25 31 2094-2 Dup
[INJ 80uL, C# TC2 ,DL 1, SP 3.0min,
ACID 0.0%, #WASH 2]

#	AREA	mg/L	C#	INJ	DL
1	6.613E	0.820	TC2	80	1
2	4.128	0.487	TC2	80	1
3	4.367	0.519	TC2	80	1

MN 4.248 0.503
SD 0.17 0.02
CV 3.98 % 4.51 % 0.5mg/L

PEAK PROFILE *dp*



DATE 10(OCT)-16-2012 15:56

ALAB : 00278

ASSOCIATED LABORATORIES
Total Organic Carbon Runlog

Method 9060 / 415.1 / 5310 B
Shimadzu TOC

TOC: V.

(2P)

Date: 10/16/2012

HCl Lot: RB 0424 spectrum chem.

Vial	Sample	Dilute	Vial	Sample	Dilute
1	Instal 8:35 am	pH < 2	41		
2	10 QA Make 10/10/12 8:47	✓	42		
3	10 LCS T 9/17/12 9:02		43		
4	2.5 QA 9/28/12 9:20		44		
5	BL 9:38		45		
6	312080-13 9:52		46		
7	I - 14 10:13		47		
8	312074		48		
9	312081-1		49		
10	I - 2		50		
11	I - 3 Dup.	✓	51		
12	312080-13 MS 11:41 Lot 106-0087 Exp 12/2013		52		
13	312081-3	pH < 2	53		
14	10 QA 12:15	✓	54		
15	BL 12:34		55		
16	312080-13 Dup. 12:54		56		
17	I - 14 Dup 13:12		57		
18	312094-2 13:30		58		
19	312065		59		
20	312066-1		60		
21	I - 2	✓	61		
22	312080-13 MS Dup. 14:40	Lot 106-0087	62		
23	10 LCS 15:02	pH < 2	63		
24	BL	✓	64		
25	312094-2 Dup. 15:36		65		
26	0.5 QA 15:55		66		
27	312121-1		67		
28	I - 2		68		
29	10 QA 16:51		69		
30	2.5 QA 17:12		70		
31	5.0 QA 17:27	✓	71		
32	BL 17:45	pH < 2	72		
33			73		
34			74		
35			75		
36			76		
37			77		
38			78		
39			1		
40			2		

ALAB: 00279

Associated Labs QCBatch BenchSheet

QCBatchID: QC1130670

Test: 5310B Total Org
 Method: SM 5310B
 Instrument: TOC-BIO (group)
 Analysis Date: 10/16/2012
 Analysis Employee:

Created Date: 10/19/2012
 Created By: quang
 Matrix: Water

Seq #	Sample ID	Customer Sample ID	QC Source	Sur. Added	Spk. Added	Init. Wt/Vol	Final Vol.	Extraction Date	Time	Comments
0	LCS_1									
1	Method Blank_1									
2	MS_1		312080-013							
3	MSD_1		312080-013							
4	312065-001	SCH011 Landfill NPDE	312065-001							
5	312066-001	101112-1,2 SW	312066-001							
6	312066-002	101112-3,4 W	312066-002							
7	312074-001	121012-86	312074-001							
8	312080-008	Equipment Blank	312080-008							
9	312080-013	B-1-CW12	312080-013							
10	312080-014	B-1-CW12 Duplicate	312080-014							
11	312081-001	#1 Southeast Corner Dis	312081-001							
12	312081-002	#2 Southwest Corner Di	312081-002							
13	312081-003	#3 South Center Section	312081-003							
14	312094-002	B-1-CW20	312094-002							
15	312121-001	SE Drain	312121-001							
16	312121-002	SW Area	312121-002							

Initial Calib STD:
 Calib Check STD:
 Internal STD:
 Surrogate STD:
 CCS STD:
 MS STD:

Solvent Manufacturer and Lot:
 Sand Manufacturer and Lot:
 Na2SO4 Manufacturer and Lot:
 Surrogate Lot:
 Spike Lot:
 Prep By Signature:

ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample:

LR 312080-13 ✓

Matrix:

WATER

Prep. Date:

10/16/2012

Analysis Date:

10/16

Lab ID#'s in Batch: LR 312080, 312094, 312081, 312066, 312065, 312121, 312074.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS

Reporting Units = mg/l

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	% Rec MS	% Rec MSD	RPD
TOC	5310 B/9060	ND	10	10.5	10.6			

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Spike Duplicate

%REC - MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 80 - 120

RPD LIMITS = 20

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

PREP. BLK	LCS				
Value	Result	True	% Rec.	L. Limit	H. Limit
ND	9.9	10	99	80%	120%

Value = Preparation Blank Value; ND = Not Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L. Limit / H. Limit = LCS Control Limits

ALAB: 00281

CONFIDENTIAL

LMC-PET-00001566

SAMPLE NAME : 1

Inst B

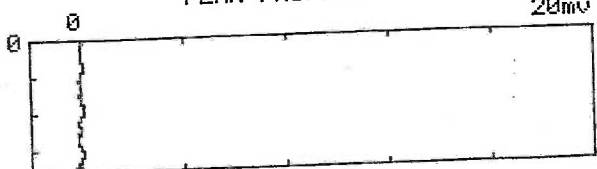
TYPE : NPOC VIAL : 1
[INJ 80uL, C# TC2, DL 1, SP 0.5min,
ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	0.360E	-0.019	TC2	80	1
2	0.653	0.021	TC2	80	1
3	0.809	0.041	TC2	80	1

MN 0.731 0.031
SD 0.11 0.01
CV 15.0 % 47.6 %

ND < 0.5 mg/L

PEAK PROFILE



DATE 10(OCT)-16-2012 08:47

SAMPLE NAME : 1

10 OA

TYPE : NPOC VIAL : 2
[INJ 50uL, C# TC3, DL 1, SP 3.0min,
ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	44.53	9.862	TC3	50	1
2	44.95	9.952	TC3	50	1

MN 44.74 9.907
SD 0.30 0.06
CV 0.66 % 0.64 %

9.9 mg/L

PEAK PROFILE



DATE 10(OCT)-16-2012 09:02

SAMPLE NAME : 1

10 LCA

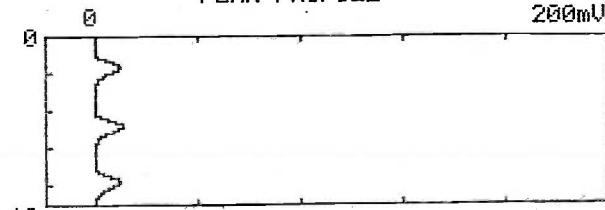
TYPE : NPOC VIAL : 3
[INJ 50uL, C# TC3, DL 1, SP 3.0min,
ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	44.68	9.894	TC3	50	1
2	47.59E	10.52	TC3	50	1
3	43.48	9.637	TC3	50	1

MN 44.08 9.765
SD 0.85 0.18
CV 1.92 % 1.86 %

9.8 mg/L

PEAK PROFILE



DATE 10(OCT)-16-2012 09:20

SAMPLE NAME : 1

2.5 OA

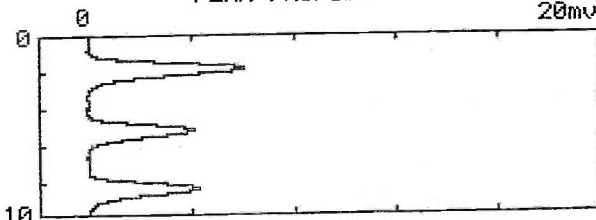
TYPE : NPOC VIAL : 4
[INJ 80uL, C# TC2, DL 1, SP 3.0min,
ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	29.99E	3.956	TC2	80	1
2	19.62	2.565	TC2	80	1
3	20.24	2.648	TC2	80	1

MN 19.93 2.606
SD 0.44 0.06
CV 2.20 % 2.26 %

2.61 mg/L

PEAK PROFILE



DATE 10(OCT)-16-2012 09:38

SAMPLE NAME : 1

20

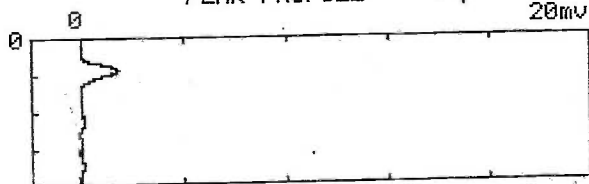
TYPE : NPOC VIAL : 5
[INJ 80uL, C# TC2, DL 1, SP 1.0min,
ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	6.717E	0.834	TC2	80	1
2	0.593	0.012	TC2	80	1
3	0.403	-0.013	TC2	80	1

MN 0.498 0.000
SD 0.13 0.02
CV 27.0 % 5221 %

ND < 0.5 mg/L

PEAK PROFILE



DATE 10(OCT)-16-2012 09:52

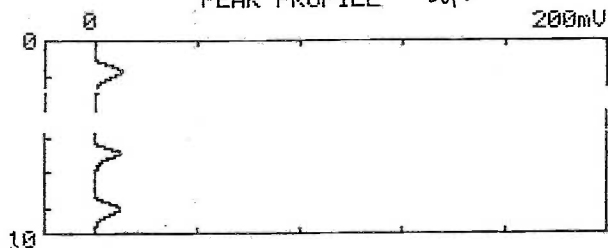
ALAB : 00282

SAMPLE NAME : 1
 TYPE : NPOC UIAL : 22 31 2080-13 MS Dup
 [INJ 50uL, C# TC3 ,DL 1, SP 3.0min,
 ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	50.05E	11.04	TC3	50	1
2	47.42	10.48	TC3	50	1
3	47.50	10.50	TC3	50	1

MN 47.46 10.49
 SD 0.06 0.01
 CV 0.12 % 0.12 % 10.5 mg/L

PEAK PROFILE *ap*



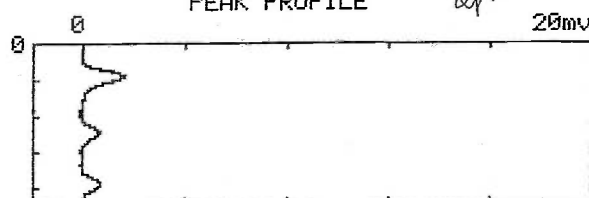
DATE 10(OCT)-16-2012 15:02

SAMPLE NAME : 1
 TYPE : NPOC UIAL : 16 31 2080-13 Dup
 [INJ 80uL, C# TC2 ,DL 1, SP 3.0min,
 ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	7.601E	0.952	TC2	80	1
2	3.362	0.384	TC2	80	1
3	3.537	0.407	TC2	80	1

MN 3.450 0.396
 SD 0.12 0.02
 CV 3.59 % 4.20 % NO < 0.5 mg/L

PEAK PROFILE *ap*



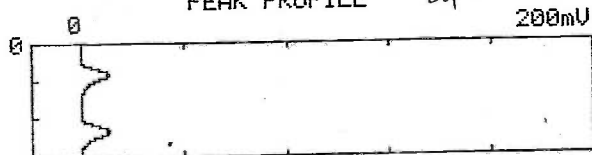
DATE 10(OCT)-16-2012 13:12

SAMPLE NAME : 1
 TYPE : NPOC UIAL : 12 31 2080-13 MS
 [INJ 50uL, C# TC3 ,DL 1, SP 3.0min,
 ACID 0.0%, #WASH 2]

#	AREA	ms/L	C#	INJ	DL
1	47.81	10.56	TC3	50	1
2	47.89	10.58	TC3	50	1

MN 47.85 10.57
 SD 0.06 0.01
 CV 0.12 % 0.11 % 10.6 mg/L

PEAK PROFILE *ap*



DATE 10(OCT)-16-2012 11:57

ALAB : 00283

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