VOLATILE ORGANIC ANALYSIS
INITIAL CALIBRATION
DOCUMENTS

Response Factor Report VMS4

Method Path : C:\INSTARCH\METHODS\
Method File : LW100416.M
Title : 8260C Waters Method
Last Update : Sun Oct 09 21:09:56 2016
Response Via : Initial Calibration

RJ 10/10/2016

Calibration Files ug/L
1 0.100/1.00 =LLCALW1.D 2 0.500/5.00 =LLCALW2.D 3 1.00/10.00 =LLCALW3.D
4 2.00/20.00 =LLCALW4.D 5 4.00/40.00 =LLCALW5.D 6 6.00/60.00 =LLCALW6.D
7 8.00/80.00 =LLCALW7.D 8 16.00/160 =LLCALW8.D

	Compound	1	2	3	4	5	6	7	Avg	%RSD
		8								
1) I	FLUOROBENZENE**ISTD**	----------ISTD----------								
2) PT	Dichlorodi	0.153	0.175	0.201	0.201	0.183	0.190	0.184	0.186	8.97
		0.202								
3) PT	Chloromethan	0.327	0.260	0.264	0.268	0.240	0.245	0.226	0.260	11.68
		0.250								
4) PT	VinylChlorid	0.243	0.234	0.245	0.243	0.228	0.228	0.221	0.235	3.80
		0.241								
5) PT	Bromomethane	0.132	0.109	0.114	0.107	0.092	0.095	0.089	0.105	13.10
		0.104								
6) PT	Chloroethane	0.122	0.149	0.149	0.141	0.125	0.125	0.120	0.133	9.01
		0.133								
7) T	Dichloroflmetha	0.421	0.402	0.394	0.407	0.367	0.368	0.353	0.387	6.00
		0.385								
8) PT	Trichlorofma	0.309	0.331	0.311	0.312	0.298	0.296	0.286	0.310	5.18
		0.332								
9) T	Ethylether	0.137	0.131	0.127	0.143	0.141	0.142	0.136	0.137	4.27
		0.143								
10) T	dichlorotfluoro	0.213	0.214	0.218	0.228	0.203	0.208	0.202	0.214	4.38
		0.223								
11) T	propyleneoxide	0.018	0.018	0.016	0.017	0.017	0.018	0.017	0.017#	3.49
		0.017								
12) T	Acrolein	0.025	0.027	0.023	0.023	0.025	0.025	0.025	0.025#	4.63
		0.024								
13) PT	11dichlorthe	0.188	0.174	0.182	0.190	0.175	0.176	0.175	0.182	4.29
		0.193								
14) PT	Trichlorotfluor	0.176	0.197	0.195	0.199	0.182	0.185	0.181	0.189	4.92
		0.199								
15) PT	Acetone	0.049	0.051	0.040	0.039	0.039	0.040	0.038	0.041#	13.88
		0.034								
16) T	Iodomethane	0.128	0.099	0.107	0.150	0.172	0.193	0.201	-----	
		0.246								
							Q	A= 0.011	R=1.000	
								B= 0.162		
								C= -0.017		
17) PT	Carbon Dislf	0.484	0.465	0.438	0.444	0.434	0.434	0.415	0.444	4.76
		0.440								
18) T	allylchloride	0.309	0.287	0.283	0.307	0.289	0.291	0.277	0.292	3.81
		0.293								
19) PT	methylacetate	0.028	0.037	0.028	0.031	0.030	0.033	0.032	0.031#	8.99
		0.032								
20) PT	Methylchlorid	0.729	0.426	0.295	0.251	0.215	0.219	0.202	-----	
		0.210								
							Q	A= 0.004	R=0.999	
								B= 0.189		
								C= 0.024		
21) T	tbutylalcohol	0.006	0.008	0.008	0.008	0.008	0.009	0.009	0.008#	11.73
		0.009								
22) T	Acrylonitrile	0.038	0.046	0.038	0.040	0.041	0.041	0.041	0.040	6.43
		0.038								
23) PT	t12dichlorte	0.199	0.200	0.193	0.208	0.190	0.189	0.182	0.195	4.38
		0.203								
24) PT	MtBE	0.419	0.454	0.412	0.438	0.441	0.449	0.439	0.438	3.39

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                         0.449
25) T   Hexane           0.227 0.254 0.250 0.262 0.260 0.263 0.261 0.258   6.33
                         0.286
26) PT  11dichlorota     0.381 0.381 0.372 0.387 0.349 0.359 0.338 0.368   4.74
                         0.376
27) T   Vinylacetate     0.192 0.234 0.230 0.261 0.274 0.274 0.259 0.244  11.67
                         0.225
28) T   chloroprene      0.307 0.325 0.327 0.338 0.320 0.320 0.310 0.323   3.29
                         0.334
29) T   Diisopether      0.632 0.699 0.693 0.745 0.689 0.687 0.657 0.687   4.79
                         0.696
30) T   ETBE             0.468 0.505 0.489 0.521 0.514 0.531 0.509 0.511   5.00
                         0.552
31) T   22dichloropr     0.257 0.228 0.233 0.243 0.236 0.249 0.241 0.246   6.73
                         0.280
32) PT  c12dichlorte     0.255 0.223 0.226 0.240 0.220 0.227 0.217 0.230   5.36
                         0.233
33) PT  2Butanone        0.012 0.014 0.013 0.013 0.013 0.014 0.013 0.013#  5.15
                         0.013
34) T   propionitrile    0.011 0.015 0.014 0.014 0.014 0.014 0.014 0.014#  7.66
                         0.014
35) T   Ethylacetate     0.002 0.003 0.004 0.004 0.004 0.005 0.005 ----- #
                         0.004
                                                          Q  A= -0.000 R=1.000
                                                             B=  0.005
                                                             C= -0.001
36) T   methacrylonitri 0.042 0.049 0.047 0.048 0.050 0.051 0.050 0.048   6.13
                         0.049
37) T   Bromochlorma     0.109 0.104 0.100 0.103 0.096 0.098 0.091 0.099   5.99
                         0.093
38) T   Tetrahydofur     0.048 0.040 0.034 0.035 0.037 0.037 0.036 0.037  12.74
                         0.033
39) PT  Chloroform       0.510 0.413 0.391 0.404 0.367 0.375 0.350 0.399  12.22
                         0.386
40) PT  111trichlota     0.303 0.308 0.301 0.322 0.300 0.310 0.308 0.312   4.83
                         0.346
41) S   SURRDibrflma     0.265 0.265 0.258 0.257 0.255 0.254 0.254 0.258   1.71
                         0.256
42) PT  Cyclohexane      0.305 0.319 0.329 0.322 0.310 0.320 0.319 0.323   4.81
                         0.357
43) PT  Carbtetraclo     0.181 0.206 0.219 0.243 0.233 0.245 0.244 0.232  13.38
                         0.285
44) T   11dicloprope     0.102 0.100 0.091 0.100 0.095 0.095 0.093 0.097   4.64
                         0.104
45) S   SURR12DCAd4      0.055 0.057 0.051 0.053 0.052 0.054 0.052 0.053   4.81
                         0.049
46) PT  Benzene          0.898 0.860 0.848 0.891 0.814 0.825 0.784 0.846   4.52
                         0.845
47) PT  12dichlorota     0.248 0.282 0.238 0.249 0.249 0.245 0.239 0.249   5.61
                         0.244
48) T   TAME             0.398 0.423 0.426 0.456 0.452 0.474 0.464 0.449   7.02
                         0.497
49) PT  trichloroete     0.226 0.205 0.207 0.217 0.201 0.206 0.195 0.209   4.82
                         0.217
50) PT  methylcyclohexa 0.309 0.317 0.315 0.322 0.332 0.335 0.332 0.330   6.23
                         0.375
51) PT  12dicloropra     0.238 0.233 0.216 0.235 0.213 0.218 0.206 0.223   5.20
                         0.224
52) T   23Dicl1propene   0.316 0.298 0.315 0.321 0.309 0.315 0.309 0.317   4.64
                         0.349
53) T   Dibromometha     0.102 0.118 0.101 0.110 0.104 0.107 0.103 0.107   5.23
                         0.107
54) T   methylmethacryl 0.076 0.078 0.076 0.084 0.089 0.093 0.090 0.085   8.76
                         0.094
55) T   14dioxane        0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001#  6.96
                         0.001
56) PT  Bromodiclrma     0.275 0.269 0.259 0.276 0.264 0.276 0.263 0.271   3.27
                         0.286
57) T   2Nitropropane    0.020 0.021 0.020 0.021 0.025 0.028 0.028 ----- #
                         0.030
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                                                        Q  A=  0.000 R=0.999
                                                           B=  0.027
                                                           C= -0.014
58) T   2CLEVE          0.022 0.029 0.031 0.035 0.040 0.042 0.044 -----
                        0.046
                                                        Q  A=  0.000 R=0.999
                                                           B=  0.042
                                                           C= -0.011
59) PT  c13dicloproe    0.221 0.271 0.266 0.289 0.290 0.304 0.298 0.282  10.59
                        0.319
60) PT  4Meth2Pentan    0.118 0.139 0.123 0.133 0.133 0.135 0.129 0.128   6.52
                        0.116
61) S   SURRd8Tolule    0.973 0.972 0.962 0.971 0.962 0.965 0.951 0.965   0.77
                        0.961
62) PT  Toluene         0.567 0.504 0.521 0.544 0.493 0.509 0.480 0.518   5.40
                        0.527
63) PT  t13Dicloprop    0.156 0.188 0.185 0.204 0.215 0.224 0.224 0.205  13.73
                        0.246
64) T   ethylmethacryla 0.146 0.163 0.156 0.176 0.186 0.194 0.190 0.176  10.69
                        0.196
65) PT  112Triclotha    0.160 0.134 0.128 0.131 0.124 0.127 0.126 0.132   8.93
                        0.125
66) PT  Tetrachlorte    0.239 0.247 0.262 0.271 0.252 0.259 0.251 0.257   4.84
                        0.276
67) T   13Diclorpropa   0.271 0.247 0.257 0.253 0.252 0.253 0.246 0.254   3.13
                        0.249

68) I   d5-CHLOROBENZENE**IST ----------------ISTD---------------------
69) PT  2Hexanone       0.103 0.120 0.112 0.123 0.122 0.129 0.123 0.118   6.92
                        0.115
70) PT  Clorodibrmta    0.174 0.208 0.224 0.230 0.232 0.247 0.243 0.228  12.17
                        0.265
71) PT  12Dibrometha    0.170 0.171 0.183 0.180 0.193 0.201 0.193 0.186   6.45
                        0.198
72) PT  Chlorobenzen    0.786 0.741 0.762 0.773 0.713 0.730 0.702 0.745   3.89
                        0.756
73) T   1Clhexane       0.342 0.343 0.358 0.358 0.341 0.368 0.360 0.359   5.92
                        0.406
74) T   1112Tetclota    0.232 0.225 0.222 0.257 0.261 0.267 0.264 0.253  10.09
                        0.298
75) PT  Ethylbenzene    1.207 1.215 1.274 1.340 1.233 1.279 1.235 1.261   3.71
                        1.308
76) PT  m p-Xylene      0.420 0.469 0.486 0.506 0.472 0.491 0.473 0.479   5.94
                        0.512
77) PT  o-Xylene        0.417 0.456 0.455 0.494 0.465 0.482 0.470 0.470   6.41
                        0.519
78) PT  Styrene         0.630 0.696 0.711 0.794 0.742 0.786 0.767 0.743   8.26
                        0.816
79) PT  Bromoform       0.135 0.139 0.130 0.133 0.141 0.160 0.158 0.146  10.32
                        0.172
80) PT  Isopropylben    1.015 1.096 1.118 1.183 1.123 1.179 1.144 1.135   5.56
                        1.220
81) T   cyclohexanone   0.003 0.003 0.003 0.004 0.004 0.003 0.004 0.003#  7.18
                        0.004

82) I   d4-1,4-DICHLOROBENZEN ----------------ISTD---------------------
83) S   SURR4BrFBenz    0.808 0.826 0.790 0.798 0.815 0.796 0.807 0.806   1.41
                        0.805
84) T   Bromobenzene    0.788 0.677 0.619 0.662 0.628 0.632 0.612 0.660   8.56
                        0.659
85) PT  1122Tetrclta    0.385 0.437 0.390 0.413 0.418 0.410 0.392 0.406   4.27
                        0.401
86) T   123Triclproa    0.387 0.358 0.347 0.434 0.377 0.381 0.369 0.380   6.76
                        0.384
87) T   14dichloro2bute 0.066 0.071 0.073 0.075 0.078 0.085 0.085 0.078  10.57
                        0.090
88) T   n-Propylbenz    2.216 2.548 2.472 2.623 2.548 2.516 2.445 2.494   5.06
                        2.585
89) T   2chlorotolue    1.586 1.551 1.498 1.554 1.512 1.504 1.453 1.529   2.96
                        1.577
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 90) T   4chlorotolue    1.541 1.666 1.671 1.790 1.727 1.727 1.660 1.698   4.96
                         1.806
 91) T   135Trimebenz    1.739 1.791 1.800 1.902 1.884 1.839 1.807 1.839   3.71
                         1.947
 92) T   tbutylbenzen    1.466 1.513 1.578 1.624 1.534 1.556 1.521 1.559   4.34
                         1.680
 93) T   124Trimetben    1.577 1.769 1.779 1.912 1.867 1.851 1.785 1.809   6.18
                         1.931
 94) T   sbutylbenzen    2.094 2.316 2.310 2.413 2.361 2.365 2.318 2.328   4.57
                         2.448
 95) PT  13Diclorbenz    0.948 1.132 1.074 1.111 1.074 1.062 1.058 1.076   5.71
                         1.147
 96) T   pIsopropylto    1.682 1.889 1.867 1.998 1.963 2.010 1.945 1.929   6.20
                         2.074
 97) PT  14dichlorobe    1.044 1.052 1.015 1.102 1.048 1.059 1.030 1.061   3.87
                         1.142
 98) PT  12dichlorobe    1.116 1.058 1.002 1.084 1.022 1.019 0.994 1.043   4.04
                         1.049
 99) T   nButylbenzen    1.569 1.659 1.597 1.728 1.733 1.771 1.757 1.709   5.57
                         1.857
100) PT  12dibromo3cl    0.032 0.068 0.060 0.067 0.068 0.077 0.076 -----
                         0.081
                                                          Q  A=  0.002 R=0.999
                                                             B=  0.072
                                                             C= -0.002
101) T   135Trichloroben 0.698 0.831 0.808 0.906 0.878 0.880 0.881 0.857   9.47
                         0.974
102) PT  124Trichlobe    0.468 0.611 0.617 0.694 0.701 0.720 0.718 0.666  14.96
                         0.798
103) T   Hexachlorobu    0.510 0.440 0.420 0.441 0.457 0.470 0.483 0.466   6.89
                         0.505
104) T   Naphthalene     0.891 0.914 0.898 1.065 1.087 1.106 1.106 1.027  10.42
                         1.148
105) T   123Trichlben    0.624 0.588 0.573 0.663 0.632 0.653 0.644 0.635   6.43
                         0.700
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                                                  Total Average %RSD   6.56
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 L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
 (#) = Out of Range

           LW100416.M        Mon Oct 10 13:39:53 2016
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BFB

Data File : C:\Instarch\Data\OCT0416\BFB1.D Vial: 1
Acq On : 4 Oct 2016 10:05 Operator: RLD-AGK
Sample : BFB INJ Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW100416.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.786 to 4.792 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	7712	PASS
75	95	30	60	45.8	17836	PASS
95	95	100	100	100.0	38904	PASS
96	95	5	9	6.2	2409	PASS
173	174	0.00	2	0.8	304	PASS
174	95	50	100	97.1	37784	PASS
175	174	5	9	6.7	2545	PASS
176	174	95	101	96.4	36432	PASS
177	176	5	9	5.9	2148	PASS

LW100416.M Mon Oct 10 13:26:59 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW1.D Vial: 5
Acq On : 4 Oct 2016 11:52 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:35:35 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:49 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1060350	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	815336	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	437390	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	280810	4.105 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 103 %	
45) SURR12DCAd4	7.36	102	57891	4.148 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 104 %	
61) SURRd8Tolule	9.79	98	1032220	4.036 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 101 %	
83) SURR4BrFBenz	13.36	95	353540	4.013 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 100 %	

Target Compounds					Qvalue
2) Dichlorodi	1.88	85	4064m	0.0858 ug/L	28
3) Chloromethan	2.16	50	8661	0.1257 ug/L	90
4) VinylChlorid	2.28	62	6433	0.1031 ug/L #	60
5) Bromomethane	2.77	94	3495	0.1253 ug/L #	70
6) Chloroethane	2.92	64	3226m	0.0853 ug/L	78
7) Dichloroflmethane	3.24	67	11149	0.1087 ug/L	95
8) Trichlorofma	3.31	101	8191	0.0998 ug/L #	93
9) Ethylether	3.76	59	3630	0.0996 ug/L	86
10) dichlorotfluoroethan	3.78	67	5641	0.0996 ug/L #	84
11) propyleneoxide	3.84	58	4861	1.0582 ug/L #	83
12) Acrolein	3.92	56	3332	0.5097 ug/L	91
13) 11dichlorthe	4.04	96	4978	0.1035 ug/L	93
14) Trichlorotfluoroeth	4.09	101	9353	0.1864 ug/L	94
15) Acetone	4.15	43	13053m	1.0728 ug/L #	96
16) Iodomethane	4.24	142	6766m	0.1637 ug/L	77
17) Carbon Dislf	4.32	76	25650	0.2179 ug/L	95
18) allylchloride	4.55	41	16400	0.2118 ug/L	95
19) methylacetate	4.63	74	729m	0.0886 ug/L #	0
20) Methylchlorid	4.71	84	19326m	0.2223 ug/L	93
21) tbutylalcohol	4.93	59	8191	3.7710 ug/L	73
22) Acrylonitrile	5.04	53	5014m	0.4948 ug/L	49
23) t12dichlorte	5.07	96	5287	0.1020 ug/L	97
24) MtBE	5.09	73	11106	0.0958 ug/L	85
25) Hexane	5.45	57	12037	0.1761 ug/L	98
26) 11dichlorota	5.61	63	10097	0.1036 ug/L	89
27) Vinylacetate	5.72	43	50899m	0.7902 ug/L	97
28) chloroprene	5.74	53	16299	0.1905 ug/L	96
29) Diisopether	5.74	45	16745	0.0919 ug/L	98
30) ETBE	6.18	59	12400	0.0915 ug/L	94
31) 22dichloropr	6.34	77	6804	0.1044 ug/L	85
32) c12dichlorte	6.36	96	6756	0.1108 ug/L	90
33) 2Butanone	6.39	72	3082	0.8994 ug/L #	43
34) propionitrile	6.46	54	3033	0.8292 ug/L #	58
35) Ethylacetate	6.47	88	238m	0.2272 ug/L #	0
36) methacrylonitrile	6.64	67	2220	0.1730 ug/L #	75
37) Bromochlorma	6.64	128	2887	0.1096 ug/L	99
38) Tetrahydofur	6.72	42	12717	1.2809 ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW1.D Vial: 5
Acq On : 4 Oct 2016 11:52 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:35:35 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:49 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	13509	0.1276 ug/L	100
40)	111trichlota	6.99	97	8045	0.0972 ug/L	94
42)	Cyclohexane	7.05	56	8089	0.0946 ug/L	92
43)	Carbtetraclo	7.18	119	4792	0.0779 ug/L	66
44)	11dicloprope	7.18	110	2704	0.1047 ug/L #	83
46)	Benzene	7.44	78	23818	0.1062 ug/L #	80
47)	12dichlorota	7.46	62	6579	0.0995 ug/L #	86
48)	TAME	7.59	73	10562	0.0888 ug/L	98
49)	trichloroete	8.24	95	5985	0.1079 ug/L	93
50)	methylcyclohexane	8.50	83	8183	0.0937 ug/L	97
51)	12dicloropra	8.53	63	6315	0.1070 ug/L #	98
52)	23Dicl1propene	8.58	75	8387	0.0999 ug/L	98
53)	Dibromometha	8.67	93	2694	0.0954 ug/L	98
54)	methylmethacrylate	8.68	69	2025m	0.0929 ug/L #	42
55)	14dioxane	8.73	88	796m	4.2992 ug/L #	0
56)	Bromodiclrma	8.87	83	7299	0.1017 ug/L #	88
57)	2Nitropropane	9.17	43	5414	0.8478 ug/L	84
58)	2CLEVE	9.25	63	2965	0.3095 ug/L #	68
59)	c13dicloproe	9.44	75	5870	0.0784 ug/L	88
60)	4Meth2Pentan	9.65	43	31259	0.9196 ug/L	96
62)	Toluene	9.88	92	15027	0.1094 ug/L	94
63)	t13Dicloprop	10.16	75	4138	0.0761 ug/L #	65
64)	ethylmethacrylate	10.30	69	7743	0.1660 ug/L	93
65)	112Triclotha	10.40	83	4240	0.1213 ug/L	90
66)	Tetrachlorte	10.60	166	6324	0.0928 ug/L	90
67)	13Diclorpropa	10.63	76	7195	0.1070 ug/L	94
69)	2Hexanone	10.74	43	20947	0.8687 ug/L	93
70)	Clorodibrmta	10.94	129	3538	0.0762 ug/L	90
71)	12Dibrometha	11.08	107	3467	0.0914 ug/L	82
72)	Chlorobenzen	11.75	112	16014	0.1054 ug/L	95
73)	1Clhexane	11.71	91	6962	0.0950 ug/L #	21
74)	1112Tetclota	11.86	131	4729	0.0916 ug/L #	86
75)	Ethylbenzene	11.92	91	24601	0.0957 ug/L	97
76)	m p-Xylene	12.08	106	17108	0.1754 ug/L	90
77)	o-Xylene	12.62	106	8502	0.0888 ug/L	91
78)	Styrene	12.65	104	12850	0.0849 ug/L	98
79)	Bromoform	12.90	173	2761	0.0927 ug/L	80
80)	Isopropylben	13.14	105	20685	0.0894 ug/L	95
81)	cyclohexanone	13.25	55	1357	1.9263 ug/L #	38
84)	Bromobenzene	13.57	156	8613	0.1194 ug/L #	78
85)	1122Tetrclta	13.56	83	4211	0.0949 ug/L	99
86)	123Triclproa	13.61	75	4231	0.1019 ug/L	96
87)	14dichloro2butene	13.64	53	720m	0.0839 ug/L #	0
88)	n-Propylbenz	13.73	91	24228	0.0888 ug/L	97
89)	2chlorotolue	13.86	91	17344	0.1037 ug/L	99
90)	4chlorotolue	14.01	91	16849	0.0907 ug/L	98
91)	135Trimebenz	13.99	105	19012	0.0946 ug/L	97
92)	tbutylbenzen	14.45	119	16028	0.0940 ug/L	97
93)	124Trimetben	14.54	105	17246	0.0872 ug/L	95
94)	sbutylbenzen	14.77	105	22898	0.0900 ug/L	98
95)	13Diclorbenz	14.93	146	10361	0.0881 ug/L	95
96)	pIsopropylto	15.00	119	18396	0.0872 ug/L #	85
97)	14dichlorobe	15.06	146	11419	0.0984 ug/L #	60
98)	12dichlorobe	15.61	146	12205	0.1070 ug/L #	78
99)	nButylbenzen	15.60	91	17159	0.0918 ug/L	94
100)	12dibromo3cl	16.70	157	352m	0.0488 ug/L #	0
101)	135Trichlorobenzene	17.02	180	7631	0.0814 ug/L #	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW1.D Vial: 5
Acq On : 4 Oct 2016 11:52 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:35:35 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:49 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	5121	0.0703 ug/L #	67
103) Hexachlorobu	18.05	225	5579	0.1096 ug/L	88
104) Naphthalene	18.13	128	9747	0.0868 ug/L #	91
105) 123Trichlben	18.44	180	6827	0.0984 ug/L	92

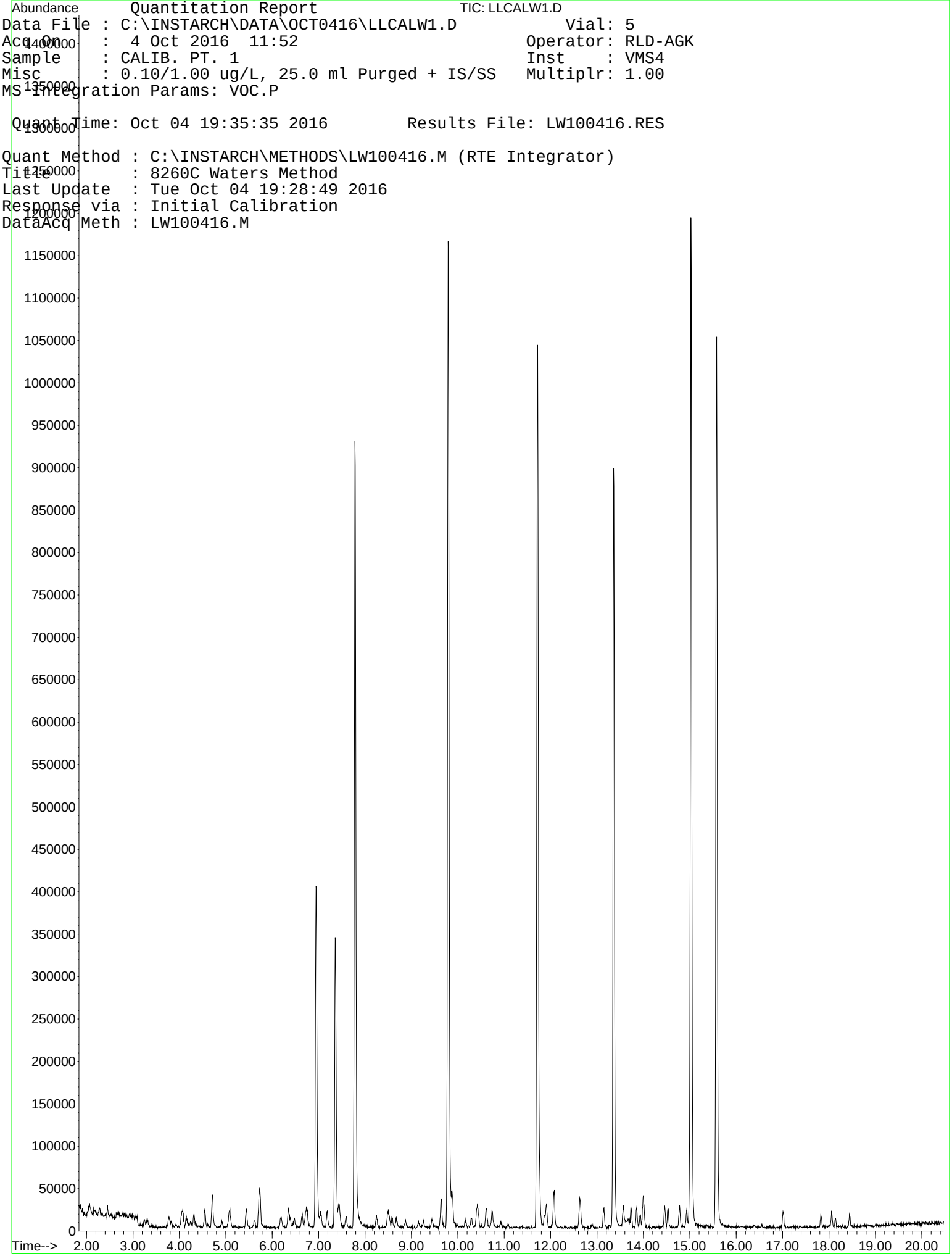
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW1.D Vial: 5
Acq On : 4 Oct 2016 11:52 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.10/1.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

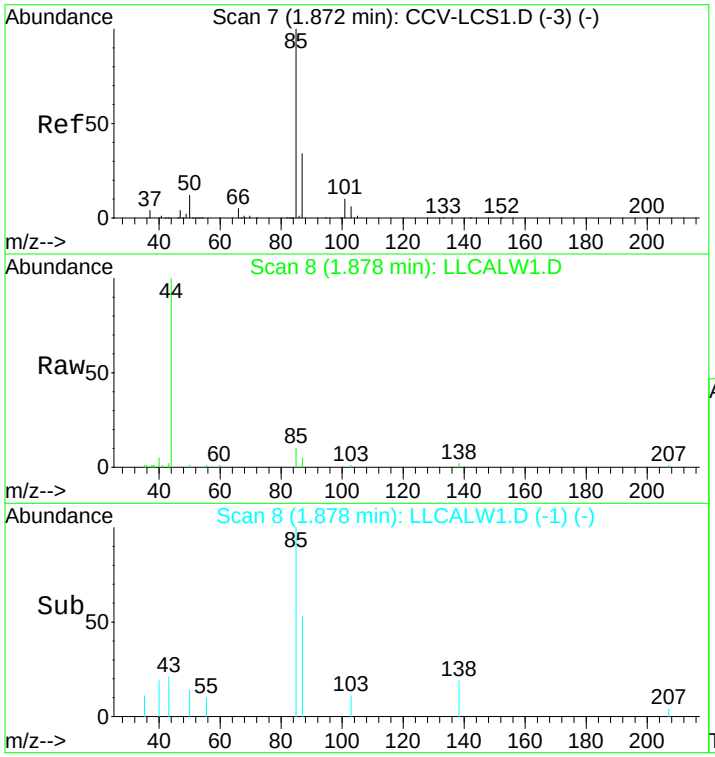
Quant Time: Oct 04 19:35:35 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:49 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



After Manual Integration

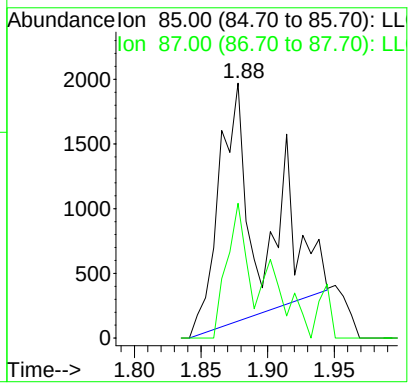
RJ 10/10/2016

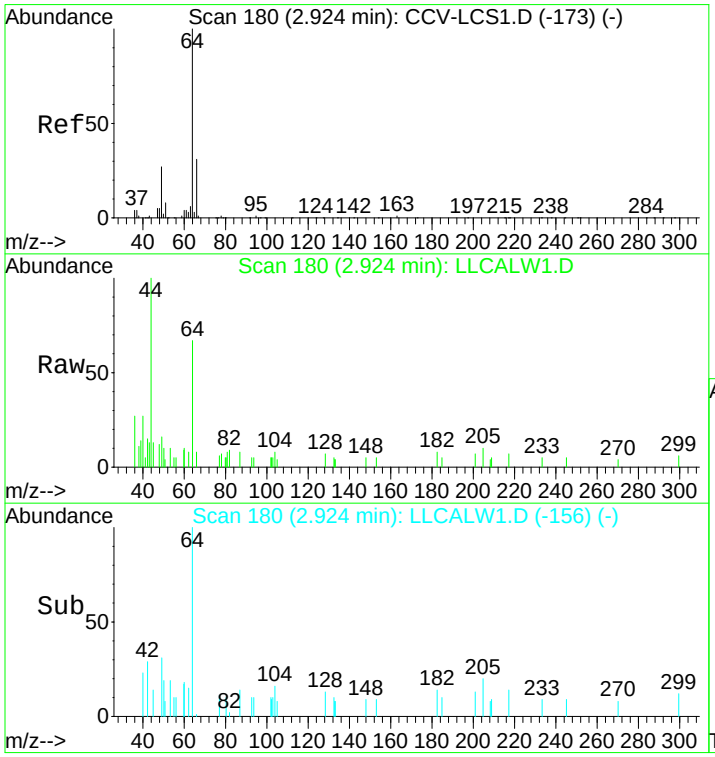


#2
Dichlorodi
Concen: 0.09 ug/L m
RT: 1.88 min Scan# 8
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 85 Resp: 4064

Ion	Ratio	Lower	Upper
85	100		
87	46.2	14.4	54.4

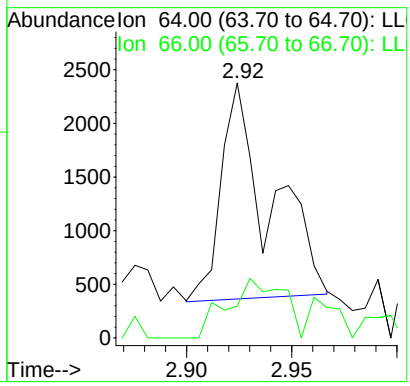




#6
Chloroethane
Concen: 0.09 ug/L m
RT: 2.92 min Scan# 180
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 64 Resp: 3226

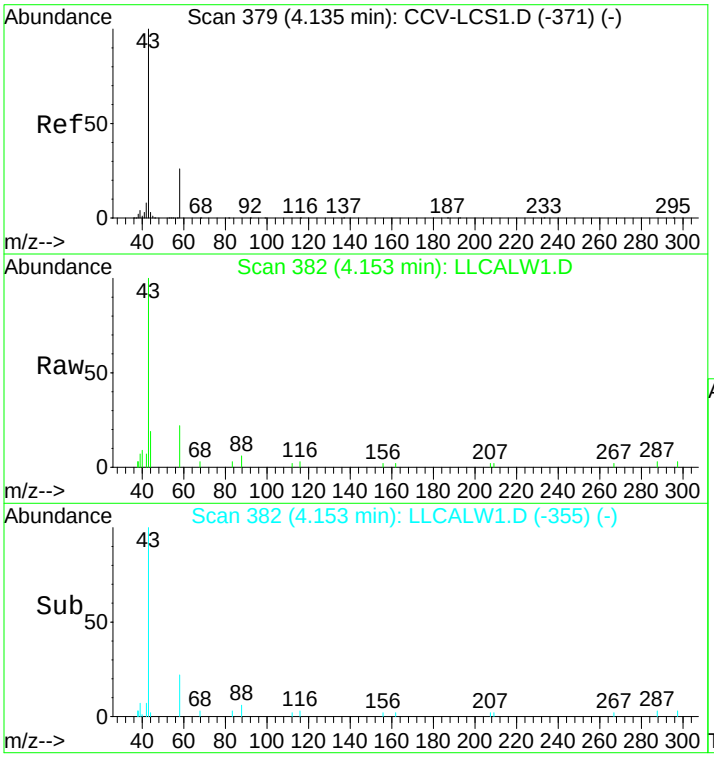
Ion	Ratio	Lower	Upper
64	100		
66	31.4	11.5	51.5



AgK 10/18/16

After Manual Integration

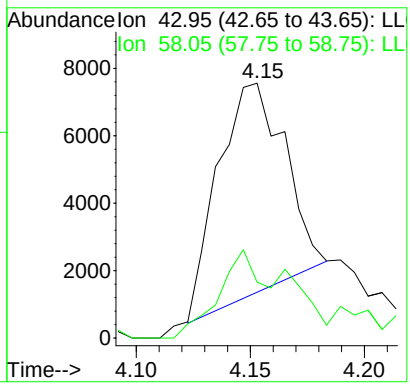
RJ 10/10/2016

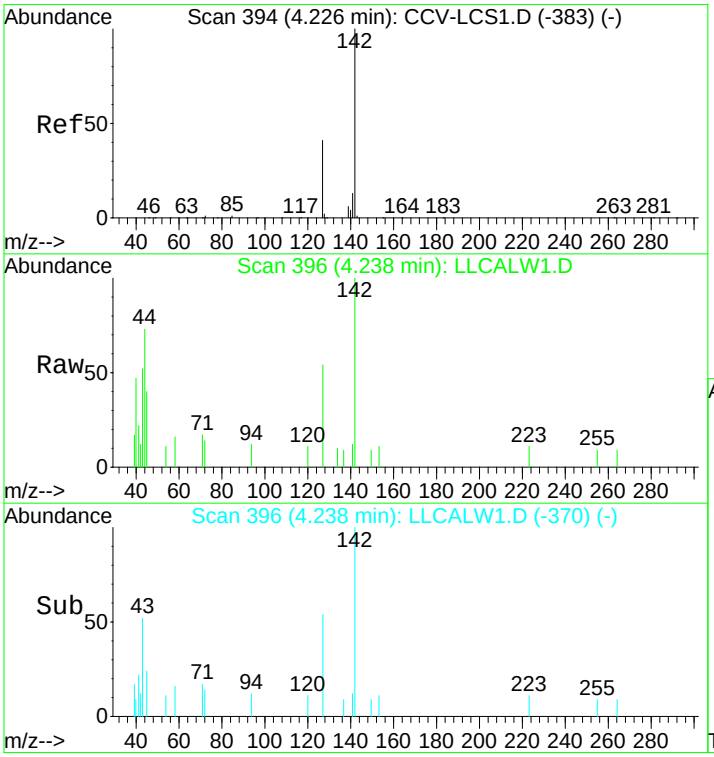


#15
Acetone
Concen: 1.07 ug/L m
RT: 4.15 min Scan# 382
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 43 Resp: 13053

Ion	Ratio	Lower	Upper
43	100		
58	51.6	7.3	47.3#

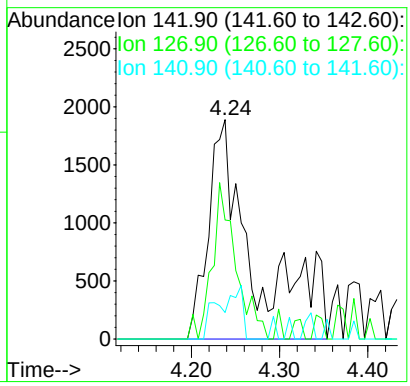




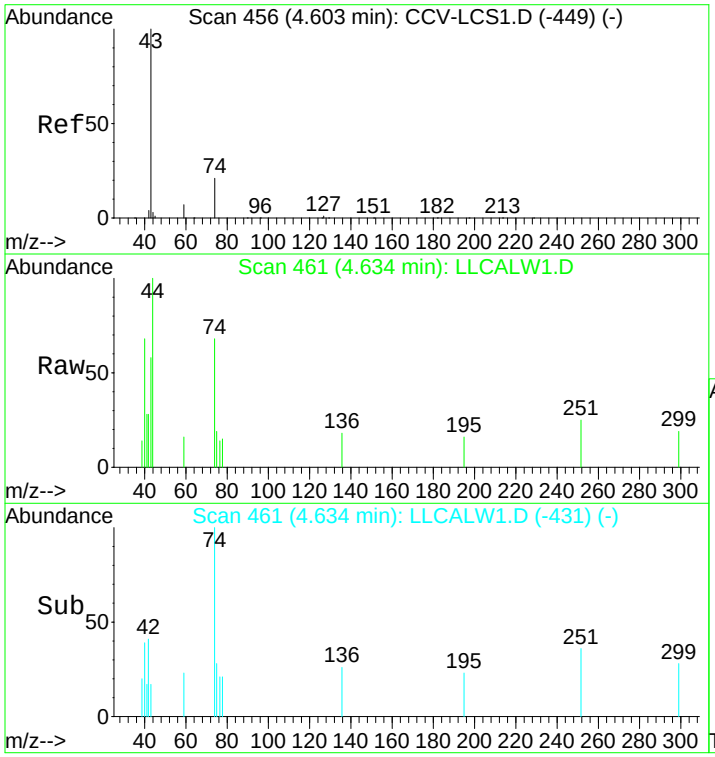
#16
Iodomethane
Concen: 0.16 ug/L m
RT: 4.24 min Scan# 396
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion:142 Resp: 6766

Ion	Ratio	Lower	Upper
142	100		
127	37.5	21.8	61.8
141	0.0	0.0	35.2



AgK 10/18/16



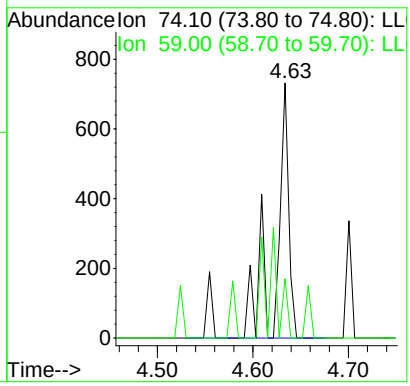
After Manual Integration

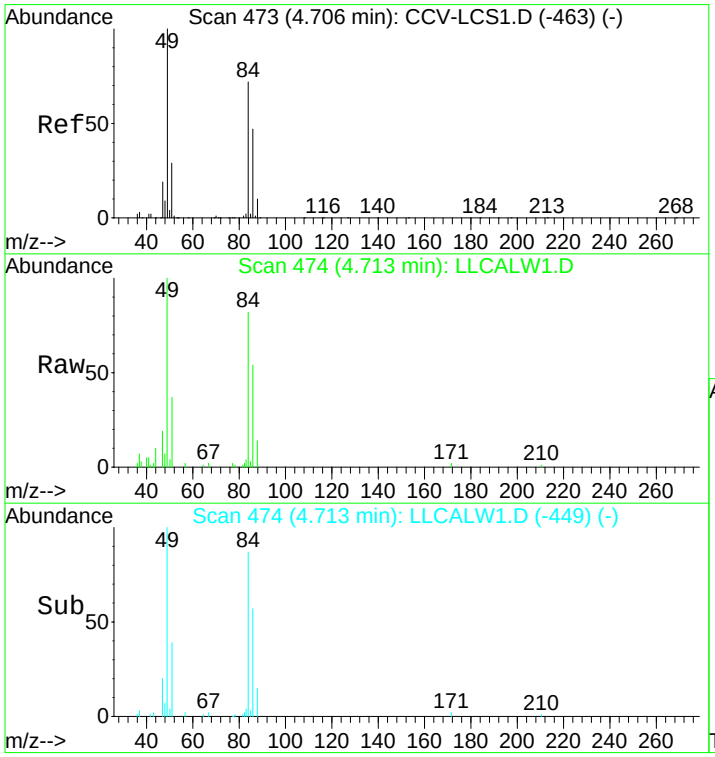
RJ 10/10/2016

#19
methylacetate
Concen: 0.09 ug/L m
RT: 4.63 min Scan# 461
Delta R.T. 0.03 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 74 Resp: 729

Ion	Ratio	Lower	Upper
74	100		
59	0.0	15.3	55.3#

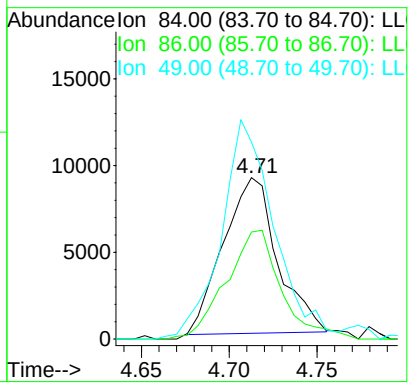




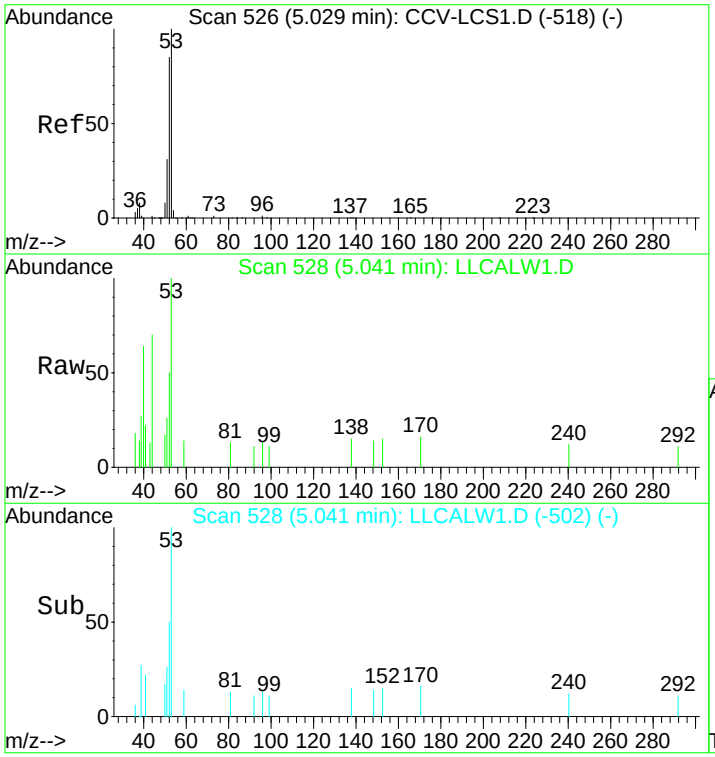
#20
Methylchlorid
Concen: 0.22 ug/L m
RT: 4.71 min Scan# 474
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 84 Resp: 19326

Ion	Ratio	Lower	Upper
84	100		
86	70.6	46.2	86.2
49	136.7	114.1	154.1



AgK 10/18/16



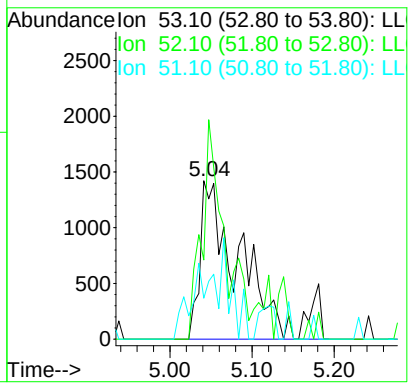
#22
Acrylonitrile
Concen: 0.49 ug/L m
RT: 5.04 min Scan# 528
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

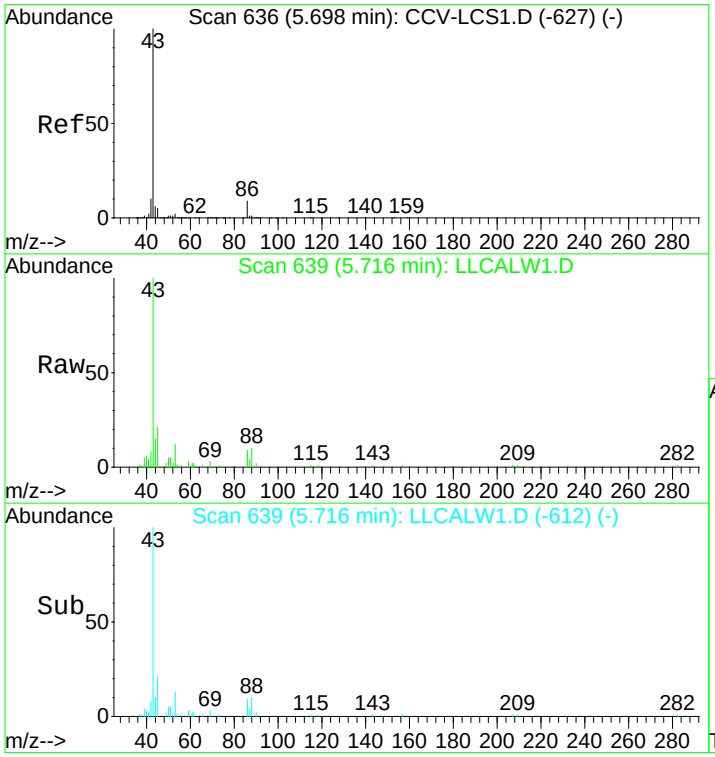
After Manual Integration

RJ 10/10/2016

Tgt Ion: 53 Resp: 5014

Ion	Ratio	Lower	Upper
53	100		
52	77.3	60.3	100.3
51	26.1	17.2	57.2

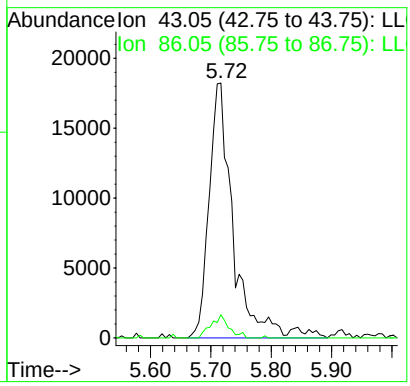




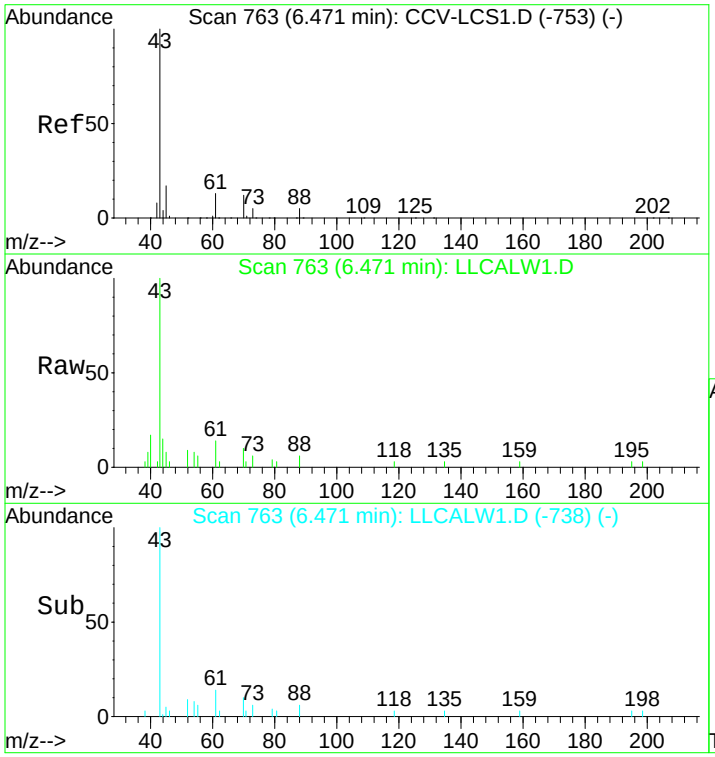
#27
Vinylacetate
Concen: 0.79 ug/L m
RT: 5.72 min Scan# 639
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 43 Resp: 50899

Ion	Ratio	Lower	Upper
43	100		
86	6.7	0.0	27.9



AgK 10/18/16



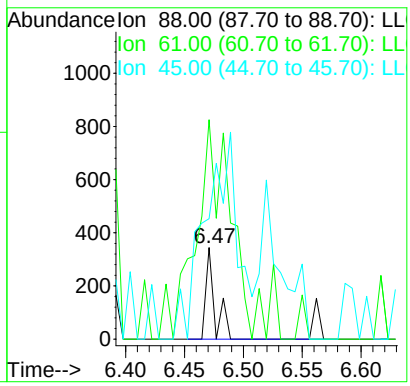
#35
Ethylacetate
Concen: 0.23 ug/L m
RT: 6.47 min Scan# 763
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

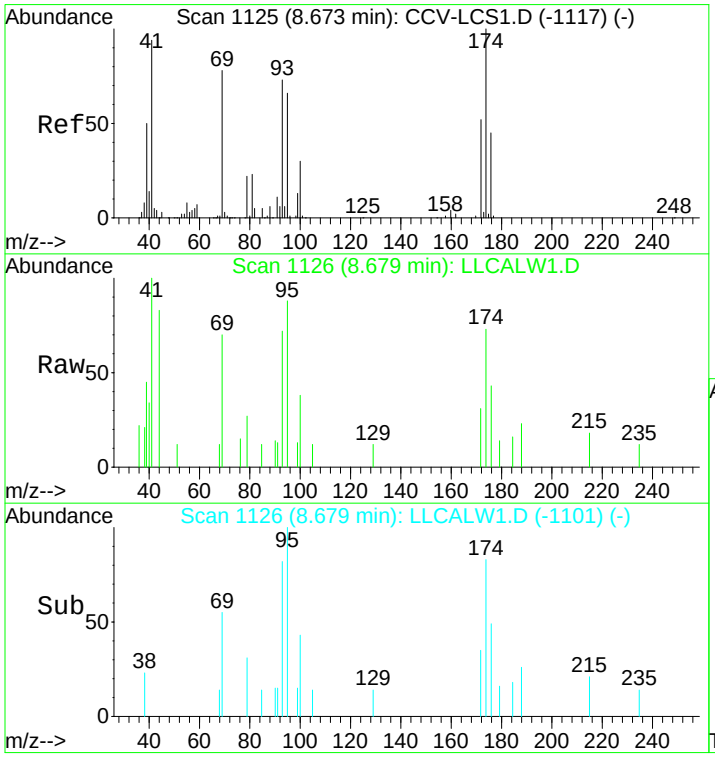
After Manual Integration

RJ 10/10/2016

Tgt Ion: 88 Resp: 238

Ion	Ratio	Lower	Upper
88	100		
61	0.0	349.4	389.4#
45	0.0	353.0	393.0#

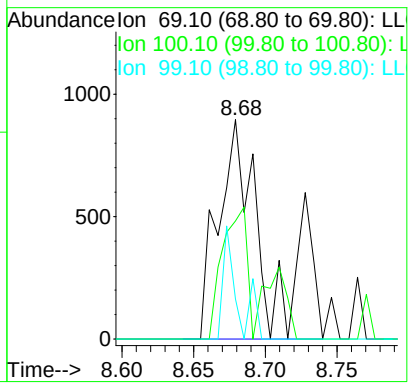




#54
methylmethacrylate
Concen: 0.09 ug/L m
RT: 8.68 min Scan# 1126
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

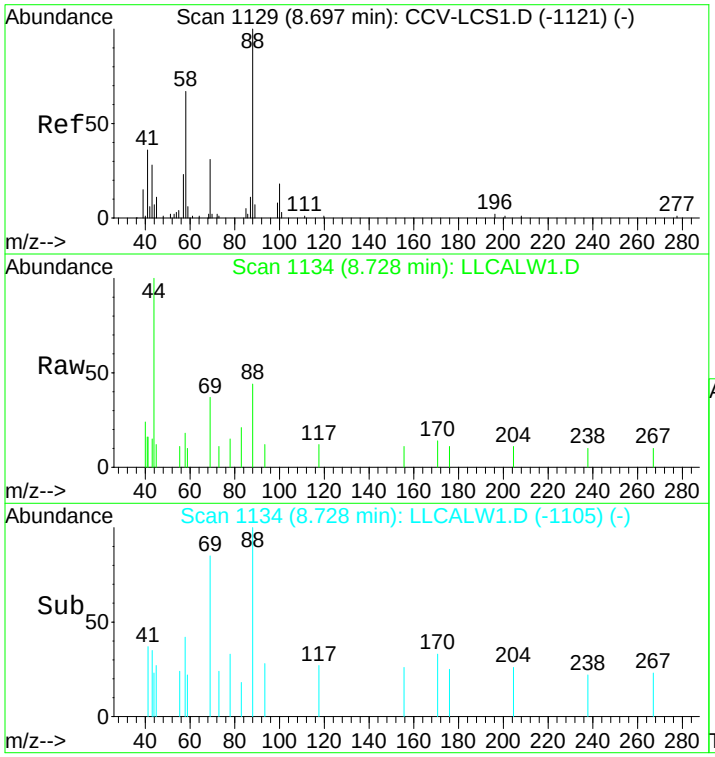
Tgt Ion: 69 Resp: 2025

Ion	Ratio	Lower	Upper
69	100		
100	0.0	20.0	60.0#
99	0.0	0.0	39.5



AgK 10/18/16

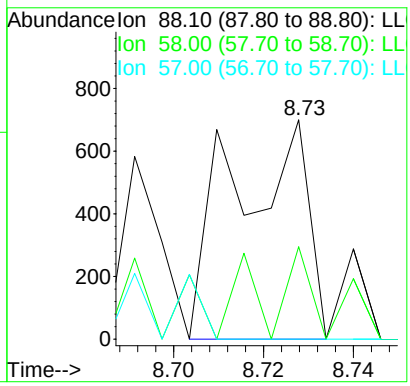
After Manual Integration



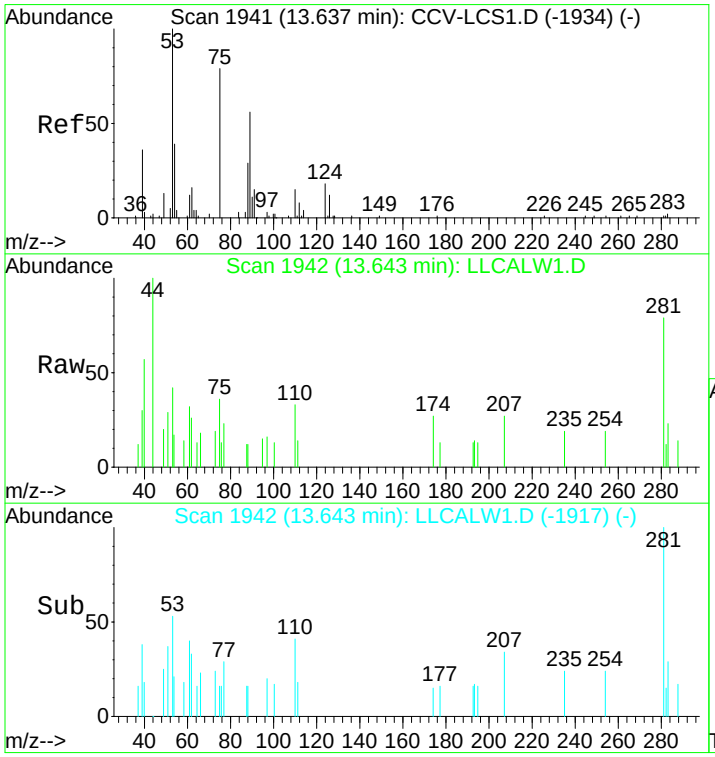
#55
14dioxane
Concen: 4.30 ug/L m
RT: 8.73 min Scan# 1134
Delta R.T. 0.02 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 88 Resp: 796

Ion	Ratio	Lower	Upper
88	100		
58	0.0	49.2	89.2#
57	0.0	7.3	47.3#



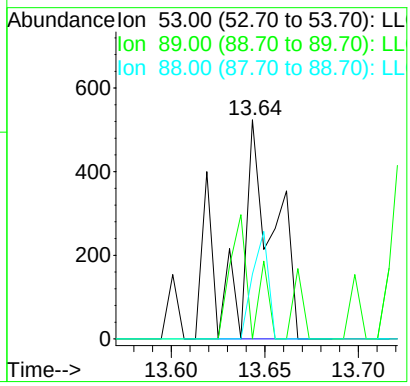
RJ 10/10/2016



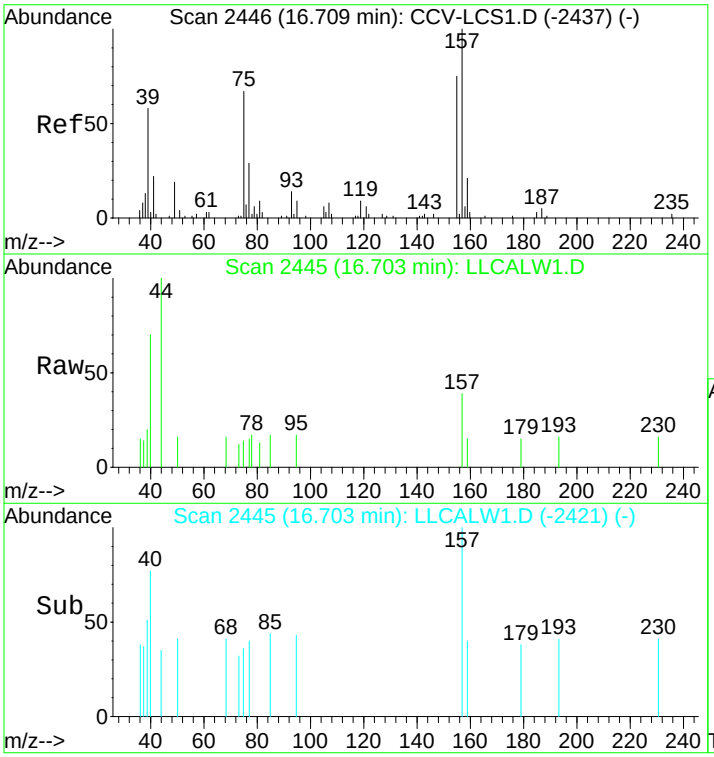
#87
14dichloro2butene
Concen: 0.08 ug/L m
RT: 13.64 min Scan# 1942
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 53 Resp: 720

Ion	Ratio	Lower	Upper
53	100		
89	0.0	38.5	78.5#
88	0.0	25.4	65.4#



AGK 10/18/16



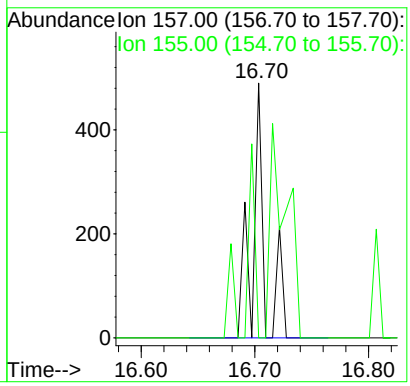
After Manual Integration

#100
12dibromo3cl
Concen: 0.05 ug/L m
RT: 16.70 min Scan# 2445
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

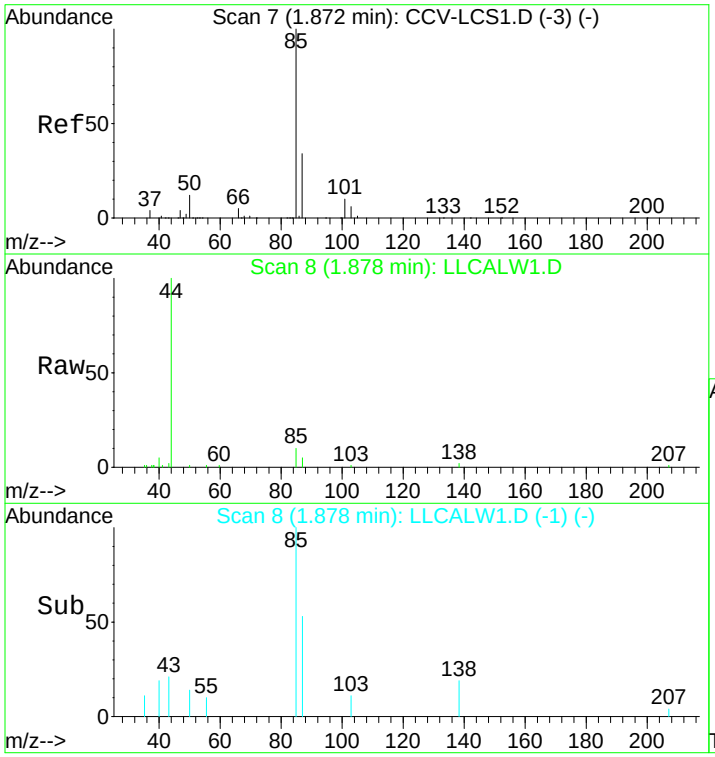
Tgt Ion:157 Resp: 352

Ion	Ratio	Lower	Upper
157	100		
155	0.0	57.6	97.6#

RJ 10/10/2016



AgK 10/18/16



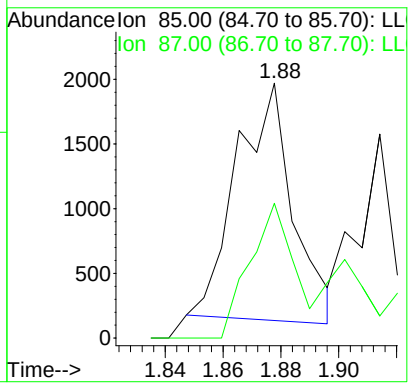
#2
Dichlorodi
Concen: 0.05 ug/L
RT: 1.88 min Scan# 8
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Before Manual Integration

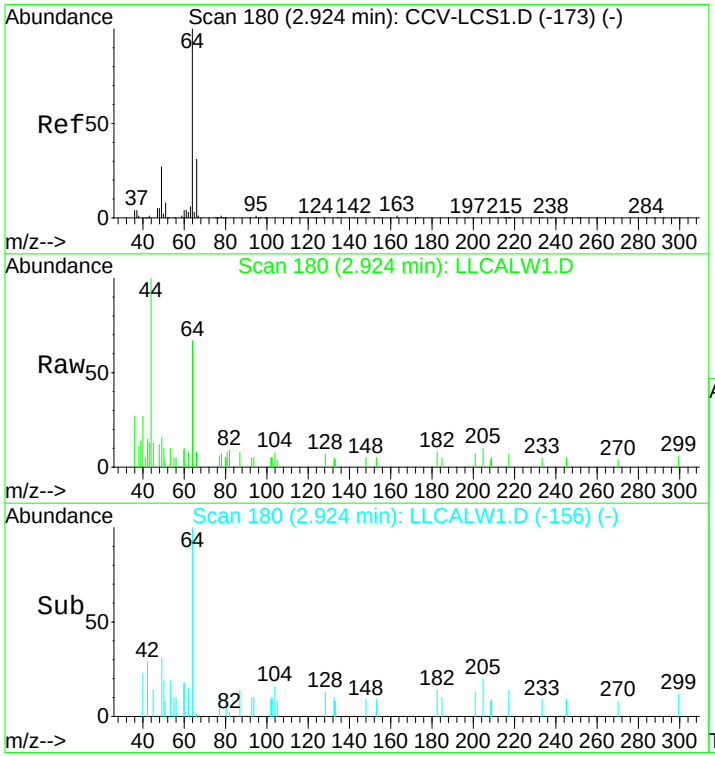
RJ 10/10/2016

Tgt Ion: 85 Resp: 2468

Ion	Ratio	Lower	Upper
85	100		
87	76.1	14.4	54.4#



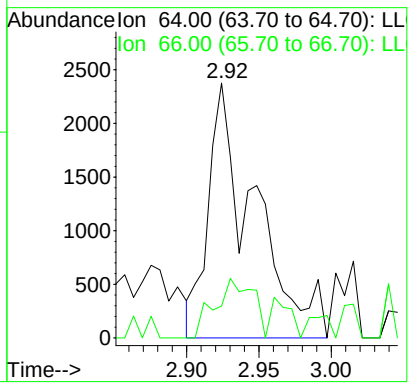
REASON # 2



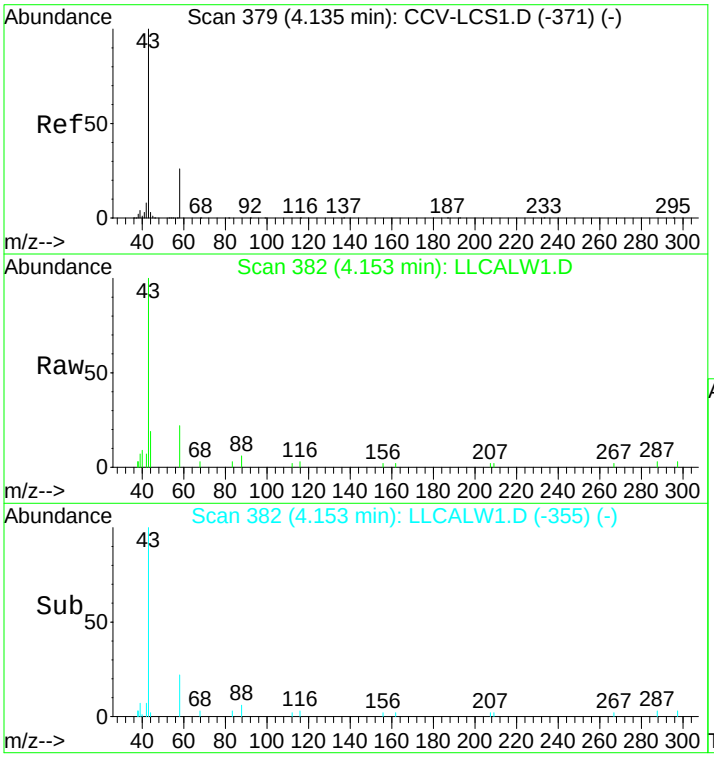
#6
Chloroethane
Concen: 0.15 ug/L
RT: 2.92 min Scan# 180
Delta R.T. -0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 64 Resp: 5249

Ion	Ratio	Lower	Upper
64	100		
66	19.3	11.5	51.5



REASON # 2



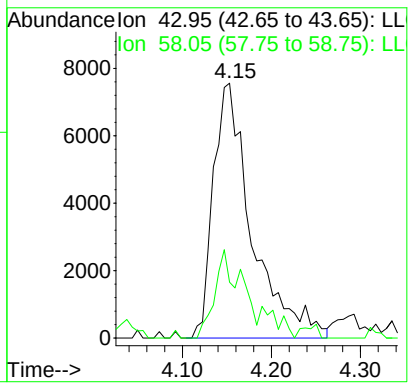
#15
Acetone
Concen: 2.08 ug/L
RT: 4.15 min Scan# 382
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 43 Resp: 22796

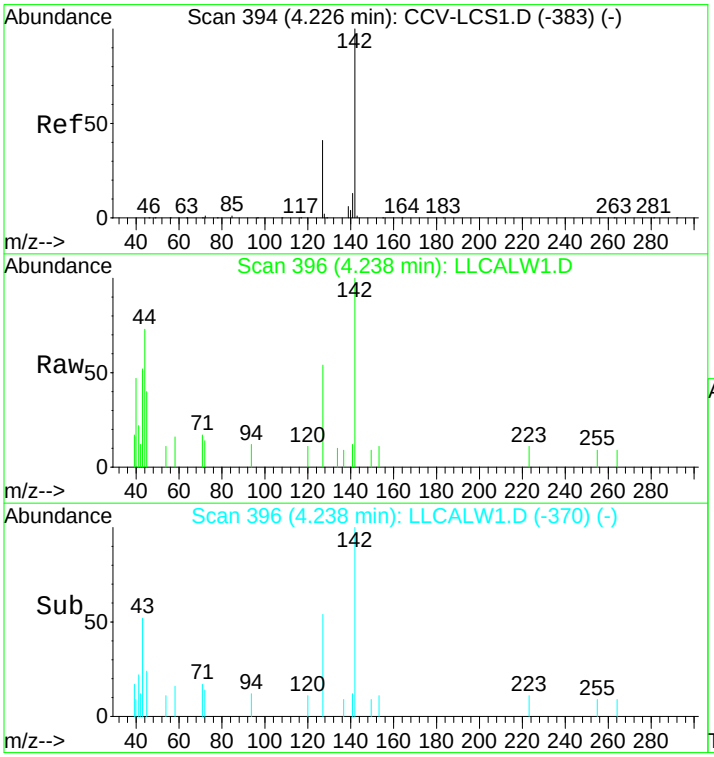
Ion	Ratio	Lower	Upper
43	100		
58	29.6	7.2	47.2

Before Manual Integration

RJ 10/10/2016



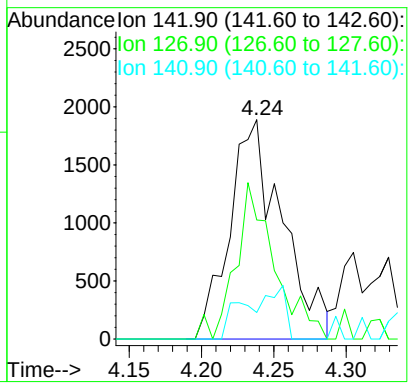
REASON # 2



#16
Iodomethane
Concen: 0.52 ug/L
RT: 4.24 min Scan# 396
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion:142 Resp: 4775

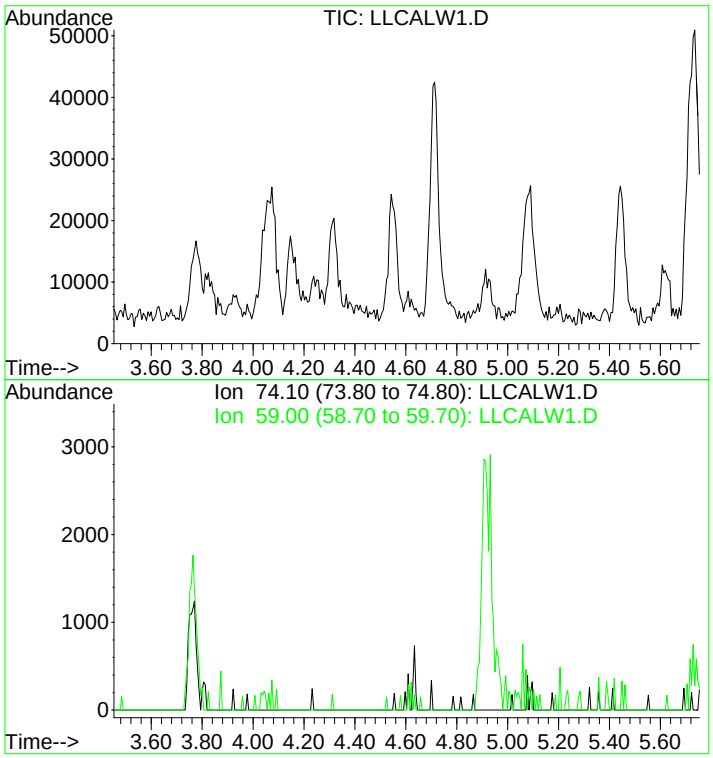
Ion	Ratio	Lower	Upper
142	100		
127	53.1	22.1	62.1
141	0.0	0.0	34.5



REASON # 2

Before Manual Integration

RJ 10/10/2016



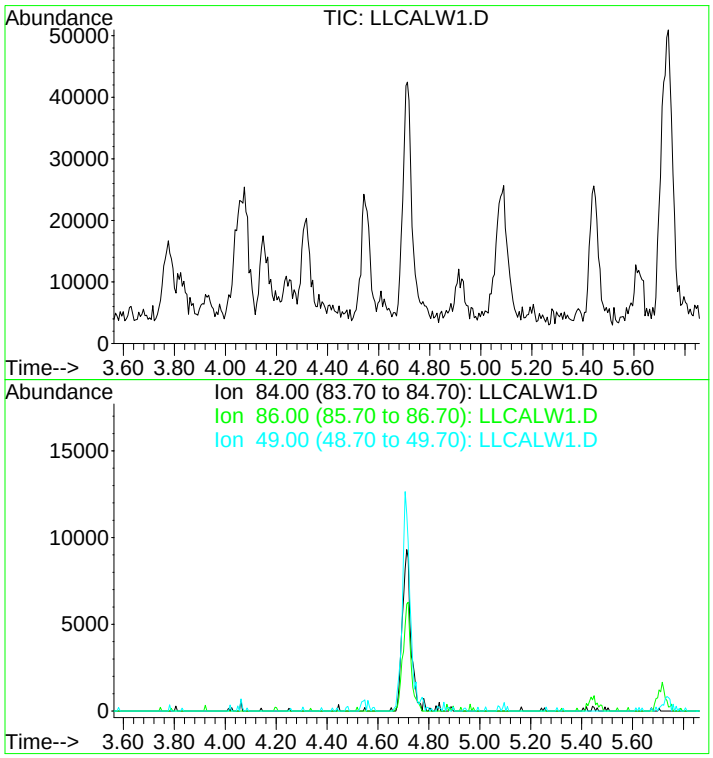
#19
methylacetate
Concen: N.D.
Expected RT: 4.60 min

Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 74

Sig	Exp Ratio
74	100
59	35.3

REASON # 1



#20
Methylchlorid
Concen: Below Cal
Expected RT: 4.71 min

Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

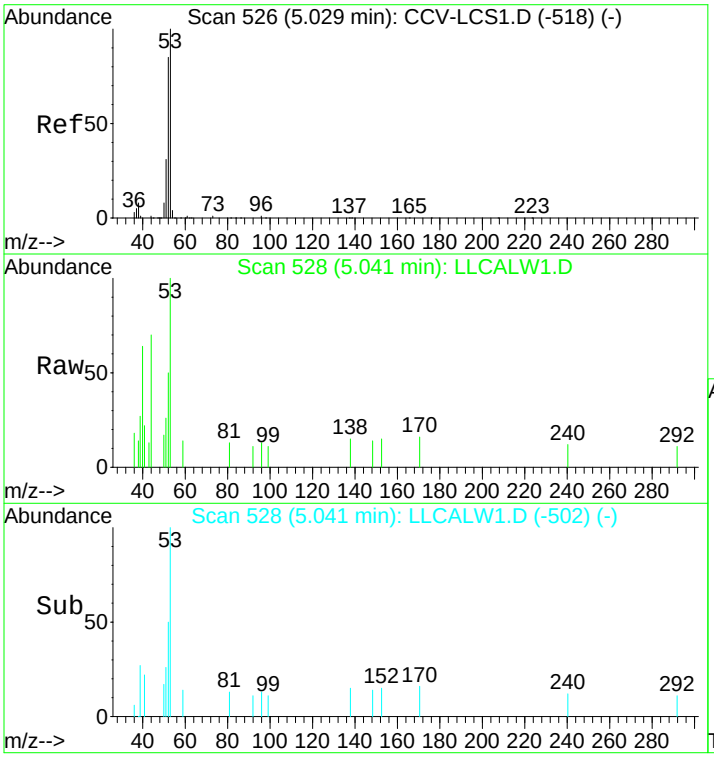
Tgt Ion: 84

Sig	Exp Ratio
84	100
86	66.2
49	134.1

REASON # 1

Before Manual Integration

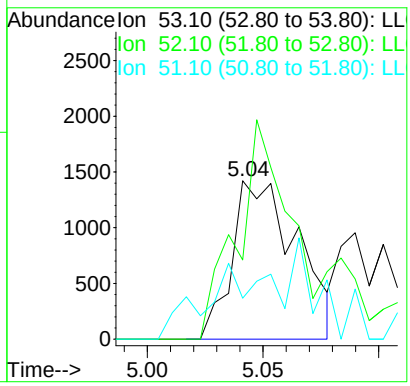
RJ 10/10/2016



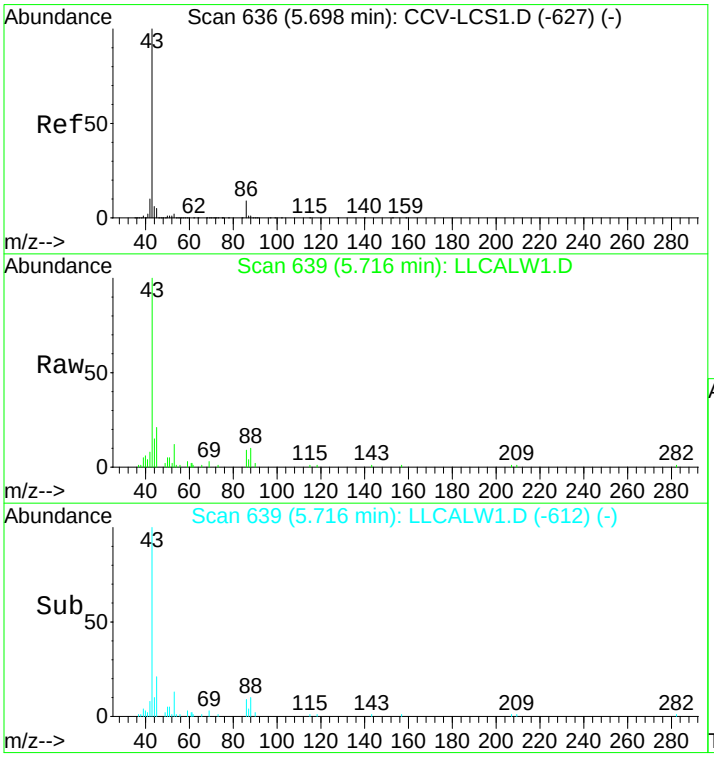
#22
Acrylonitrile
Concen: 0.26 ug/L
RT: 5.04 min Scan# 528
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 53 Resp: 2779

Ion	Ratio	Lower	Upper
53	100		
52	139.5	60.3	100.3#
51	47.1	17.2	57.2



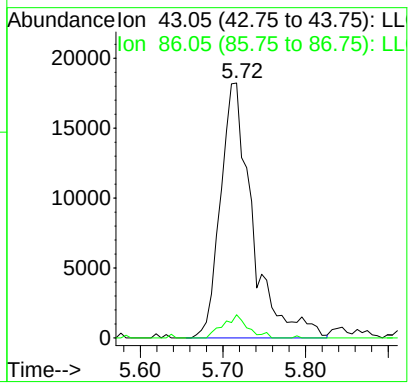
REASON # 2



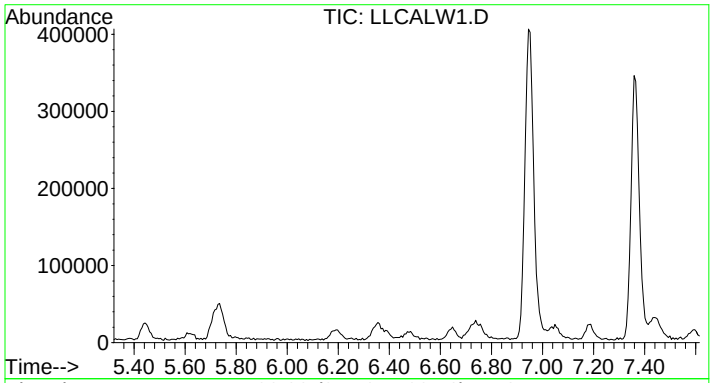
#27
Vinylacetate
Concen: 0.76 ug/L
RT: 5.72 min Scan# 639
Delta R.T. 0.01 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 43 Resp: 49215

Ion	Ratio	Lower	Upper
43	100		
86	6.9	0.0	28.0



REASON # 2



#35
Ethylacetate
Concen: N.D.
Expected RT: 6.47 min

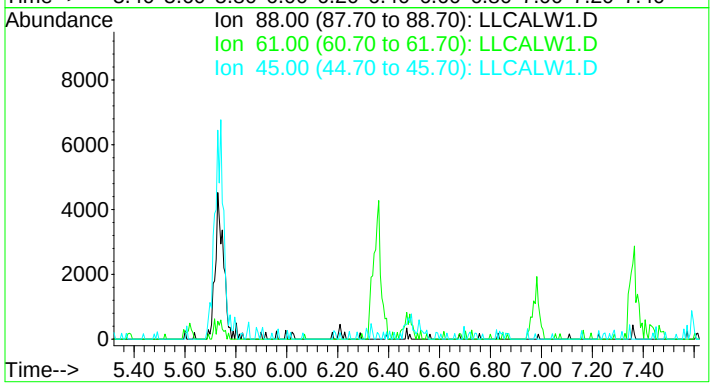
Before Manual Integration

RJ 10/10/2016

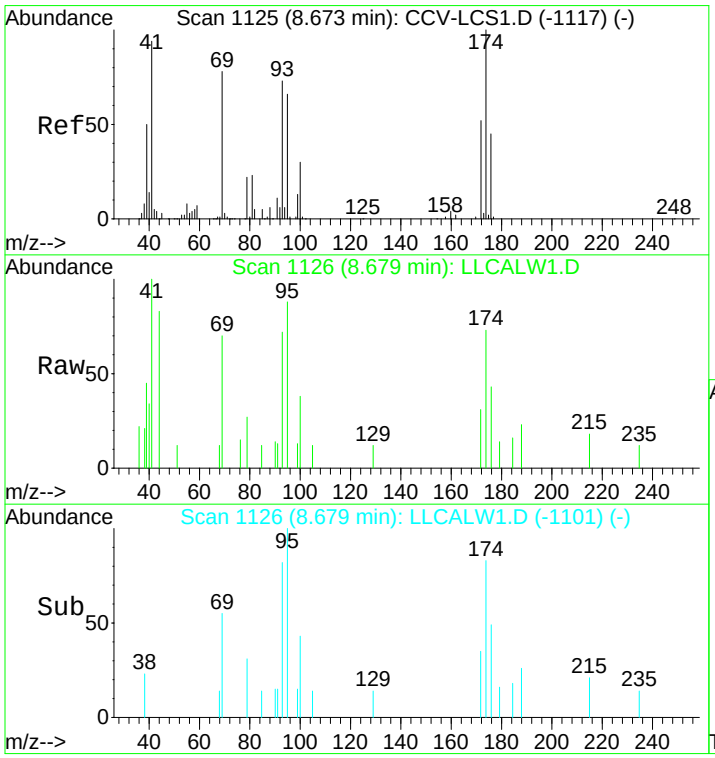
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 88

Sig	Exp Ratio
88	100
61	369.4
45	374.2



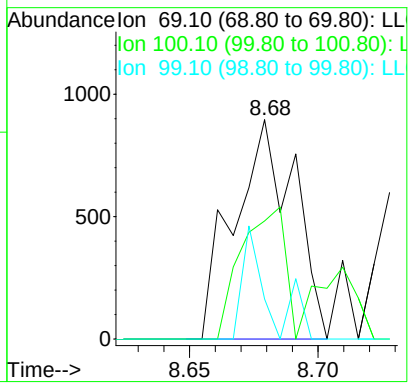
REASON # 1



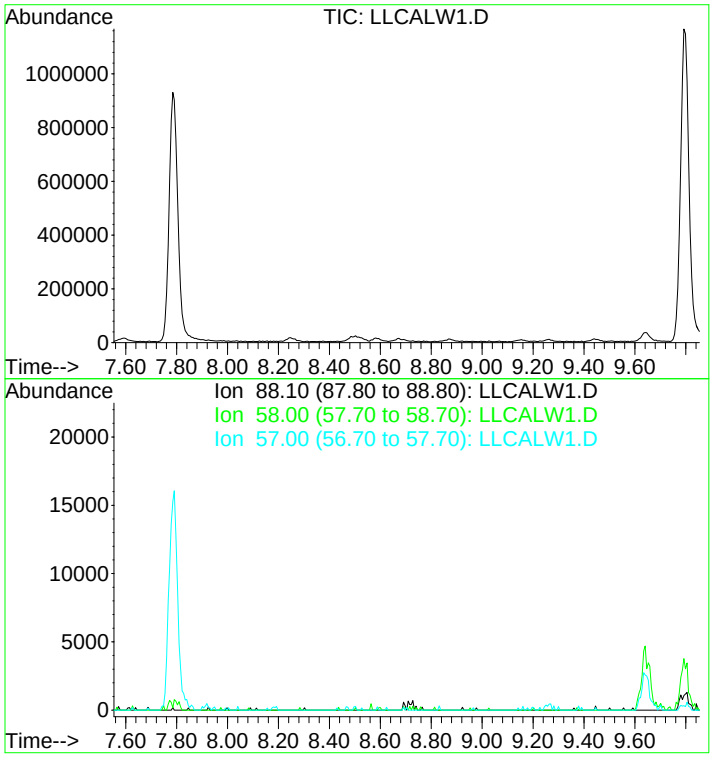
#54
methylmethacrylate
Concen: 0.07 ug/L
RT: 8.68 min Scan# 1126
Delta R.T. 0.00 min
Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 69 Resp: 1464

Ion	Ratio	Lower	Upper
69	100		
100	0.0	19.9	59.9#
99	0.0	0.0	39.5



REASON # 2



#55
14dioxane
Concen: N.D.
Expected RT: 8.70 min

Before Manual Integration

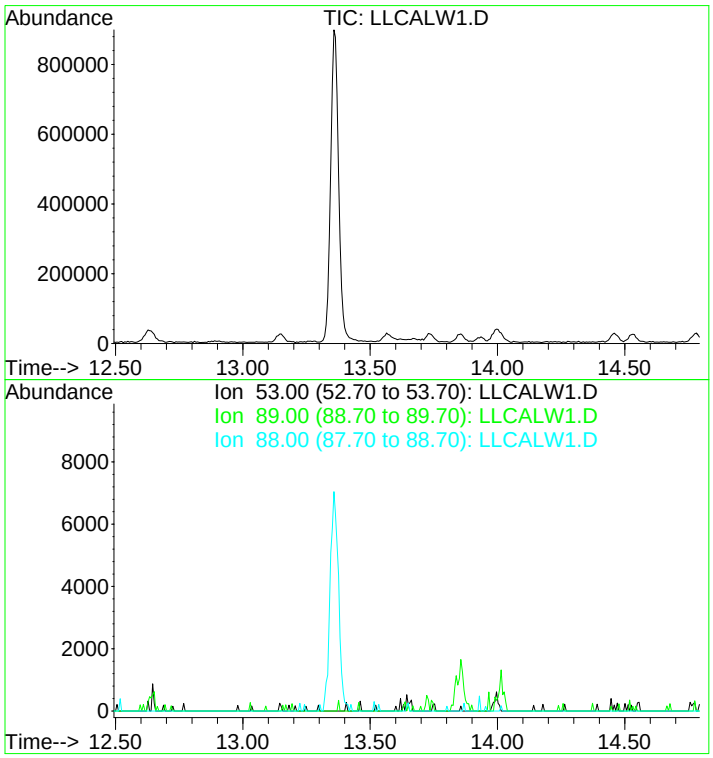
RJ 10/10/2016

Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 88

Sig	Exp Ratio
88	100
58	69.2
57	27.3

REASON # 1



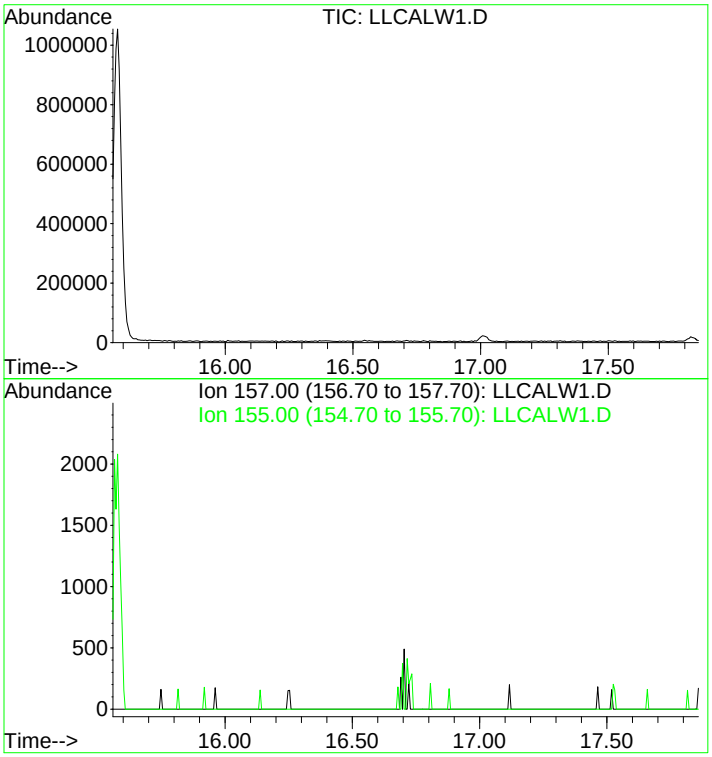
#87
14dichloro2butene
Concen: N.D.
Expected RT: 13.64 min

Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 53

Sig	Exp Ratio
53	100
89	58.5
88	45.4

REASON # 1



#100
12dibromo3cl
Concen: N.D.
Expected RT: 16.71 min

Lab File: LLCALW1.D
Acq: 4 Oct 2016 11:52

Tgt Ion: 157

Sig	Exp Ratio
157	100
155	77.6

Before Manual Integration

RJ 10/10/2016

REASON # 1

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW2.D Vial: 6
Acq On : 4 Oct 2016 12:22 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:36:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:36 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1059106	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	822856	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	437790	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	280323	4.073 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 102 %	
45) SURR12DCAd4	7.36	102	60433	4.292 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 107 %	
61) SURRd8Tolule	9.79	98	1029657	4.019 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 100 %	
83) SURR4BrFBenz	13.36	95	361605	4.070 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 102 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.87	85	23107	0.6317 ug/L	81
3) Chloromethan	2.16	50	34432	0.4593 ug/L	100
4) VinylChlorid	2.29	62	31001	0.4980 ug/L	81
5) Bromomethane	2.76	94	14415	0.4863 ug/L	98
6) Chloroethane	2.92	64	19790	0.4624 ug/L	100
7) Dichloroflmethane	3.25	67	53260	0.5111 ug/L	95
8) Trichlorofma	3.31	101	43763	0.5449 ug/L	97
9) Ethylether	3.76	59	17390	0.4735 ug/L	92
10) dichlorotfluoroethan	3.79	67	28343	0.5149 ug/L	96
11) propyleneoxide	3.82	58	23461	4.9544 ug/L	93
12) Acrolein	3.92	56	17590	2.6682 ug/L	93
13) 11dichlorthe	4.05	96	23051	0.4803 ug/L	91
14) Trichlorotfluoroeth	4.07	101	52244	1.1032 ug/L	97
15) Acetone	4.15	43	67386	4.0624 ug/L	96
16) Iodomethane	4.23	142	26335m	0.7829 ug/L	99
17) Carbon Dislf	4.31	76	123032	1.0129 ug/L	97
18) allylchloride	4.55	41	76000	0.9606 ug/L	96
19) methylacetate	4.60	74	4853	0.6625 ug/L	82
20) Methylchlorid	4.71	84	56446	0.4177 ug/L	98
21) tbutylalcohol	4.91	59	55525	29.0174 ug/L	97
22) Acrylonitrile	5.05	53	30195	3.6586 ug/L	92
23) t12dichlorte	5.08	96	26440	0.5133 ug/L	99
24) MtBE	5.08	73	60042	0.5279 ug/L	95
25) Hexane	5.45	57	67274	1.0438 ug/L	99
26) 11dichlorota	5.61	63	50376	0.5214 ug/L	98
27) Vinylacetate	5.70	43	310351	5.1054 ug/L	99
28) chloroprene	5.73	53	86142	1.0366 ug/L	99
29) Diisopether	5.73	45	92579	0.5293 ug/L	97
30) ETBE	6.18	59	66798	0.5141 ug/L	96
31) 22dichloropr	6.35	77	30172	0.4629 ug/L	98
32) c12dichlorte	6.35	96	29563	0.4707 ug/L	91
33) 2Butanone	6.38	72	18253	5.6036 ug/L	97
34) propionitrile	6.45	54	19932	5.8377 ug/L	95
35) Ethylacetate	6.48	88	2162	2.6458 ug/L #	42
36) methacrylonitrile	6.63	67	13082	1.0709 ug/L	97
37) Bromochlorma	6.64	128	13813	0.5103 ug/L	96
38) Tetrahydofur	6.72	42	53407	4.7780 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW2.D Vial: 6
Acq On : 4 Oct 2016 12:22 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:36:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:36 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	54715	0.4715 ug/L	98
40)	111trichlota	6.98	97	40734	0.5095 ug/L	96
42)	Cyclohexane	7.04	56	42200	0.5185 ug/L	100
43)	Carbtetraclo	7.18	119	27256	0.4971 ug/L	92
44)	11dicloprope	7.18	110	13189	0.5061 ug/L	96
46)	Benzene	7.44	78	113881	0.5022 ug/L	98
47)	12dichlorota	7.46	62	37395	0.5676 ug/L	97
48)	TAME	7.59	73	55976	0.4972 ug/L	96
49)	trichloroete	8.25	95	27152	0.4808 ug/L	99
50)	methylcyclohexane	8.50	83	41902	0.4941 ug/L	97
51)	12dicloropra	8.53	63	30798	0.5159 ug/L	89
52)	23Dicl1propene	8.59	75	39442	0.4760 ug/L	99
53)	Dibromometha	8.67	93	15656	0.5752 ug/L	92
54)	methylmethacrylate	8.68	69	10343	0.5442 ug/L	91
55)	14dioxane	8.71	88	4678	22.8955 ug/L #	81
56)	Bromodiclrma	8.86	83	35638	0.4993 ug/L	98
57)	2Nitropropane	9.15	43	27388	4.5681 ug/L	91
58)	2CLEVE	9.26	63	19294	2.3412 ug/L	96
59)	c13dicloproe	9.45	75	35895	0.5305 ug/L	98
60)	4Meth2Pentan	9.64	43	184472	5.5481 ug/L	98
62)	Toluene	9.88	92	66769	0.4757 ug/L	96
63)	t13Dicloprop	10.16	75	24851	0.5060 ug/L	95
64)	ethylmethacrylate	10.29	69	43257	0.9828 ug/L	99
65)	112Triclotha	10.40	83	17749	0.4717 ug/L	95
66)	Tetrachlorte	10.61	166	32743	0.5045 ug/L	98
67)	13Diclorpropa	10.63	76	32733	0.4724 ug/L	97
69)	2Hexanone	10.74	43	123329	5.3312 ug/L	95
70)	Clorodibrmta	10.92	129	21352	0.5113 ug/L	95
71)	12Dibrometha	11.08	107	17538	0.4693 ug/L	87
72)	Chlorobenzen	11.76	112	76266	0.4946 ug/L	93
73)	1Clhexane	11.73	91	35250	0.5023 ug/L	83
74)	1112Tetclota	11.87	131	23172	0.4568 ug/L	85
75)	Ethylbenzene	11.92	91	124986	0.4980 ug/L	99
76)	m p-Xylene	12.07	106	96553	1.0526 ug/L	99
77)	o-Xylene	12.63	106	46948	0.5173 ug/L	90
78)	Styrene	12.64	104	71584	0.5068 ug/L	96
79)	Bromoform	12.90	173	14328	0.5034 ug/L	89
80)	Isopropylben	13.14	105	112693	0.5126 ug/L	95
81)	cyclohexanone	13.25	55	6592	9.2671 ug/L #	87
84)	Bromobenzene	13.57	156	37045	0.4781 ug/L	95
85)	1122Tetrclta	13.56	83	23914	0.5439 ug/L	98
86)	123Triclproa	13.62	75	19611	0.4694 ug/L	92
87)	14dichloro2butene	13.64	53	3874	0.4749 ug/L	89
88)	n-Propylbenz	13.73	91	139416	0.5348 ug/L	98
89)	2chlorotolue	13.85	91	84902	0.5007 ug/L	98
90)	4chlorotolue	14.01	91	91148	0.5097 ug/L	94
91)	135Trimebenz	13.99	105	98001	0.4944 ug/L	97
92)	tbutylbenzen	14.46	119	82800	0.5044 ug/L	99
93)	124Trimetben	14.53	105	96831	0.5138 ug/L	100
94)	sbutylbenzen	14.78	105	126747	0.5201 ug/L	99
95)	13Diclorbenz	14.93	146	61920	0.5597 ug/L	97
96)	pIsopropylto	14.99	119	103359	0.5181 ug/L	98
97)	14dichlorobe	15.06	146	57546	0.5026 ug/L	95
98)	12dichlorobe	15.60	146	57885	0.4948 ug/L	94
99)	nButylbenzen	15.59	91	90804	0.5025 ug/L	99
100)	12dibromo3cl	16.72	157	3734	0.6833 ug/L	99
101)	135Trichlorobenzene	17.01	180	45466	0.5272 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW2.D Vial: 6
Acq On : 4 Oct 2016 12:22 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:36:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:36 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	33450	0.5226 ug/L	99
103) Hexachlorobu	18.06	225	24075	0.4549 ug/L	97
104) Naphthalene	18.14	128	49994	0.4617 ug/L	96
105) 123Trichlben	18.44	180	32167	0.4680 ug/L	96

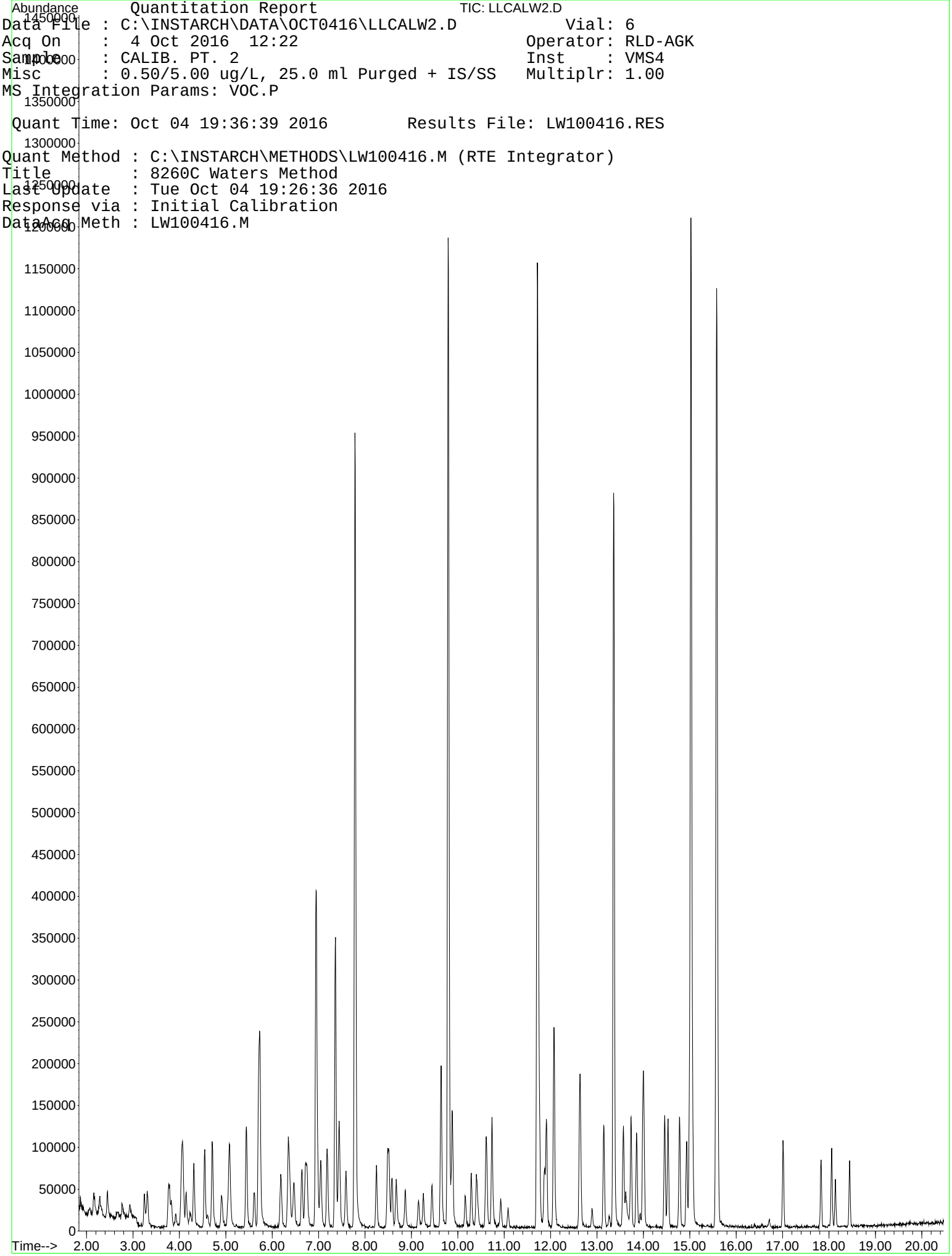
(#) = qualifier out of range (m) = manual integration

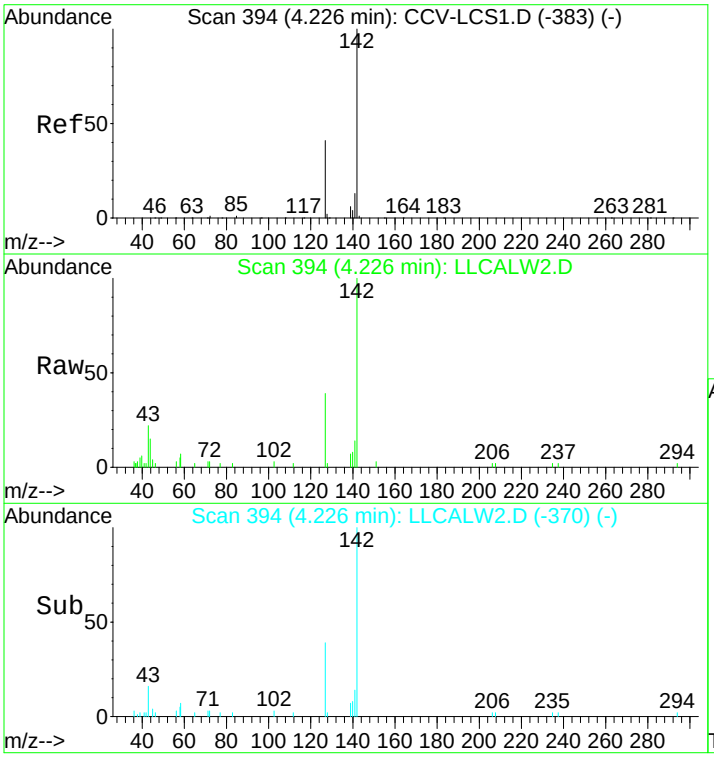
Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW2.D Vial: 6
Acq On : 4 Oct 2016 12:22 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.50/5.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:36:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:36 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

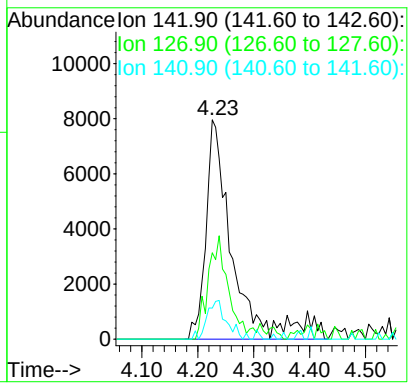




#16
Iodomethane
Concen: 0.78 ug/L m
RT: 4.23 min Scan# 394
Delta R.T. -0.01 min
Lab File: LLCALW2.D
Acq: 4 Oct 2016 12:22

Tgt Ion:142 Resp: 26335

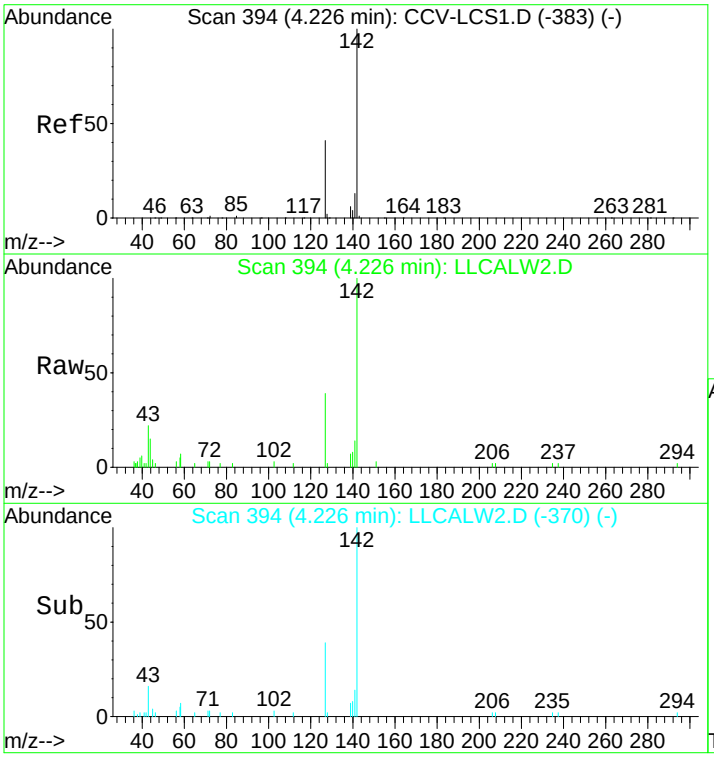
Ion	Ratio	Lower	Upper
142	100		
127	37.6	21.8	61.8
141	12.6	0.0	35.2



After Manual Integration

RJ 10/10/2016

AGK 10/18/16



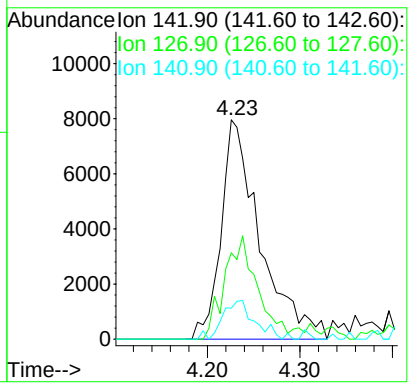
#16
Iodomethane
Concen: 0.94 ug/L
RT: 4.23 min Scan# 394
Delta R.T. -0.01 min
Lab File: LLCALW2.D
Acq: 4 Oct 2016 12:22

Before Manual Integration

RJ 10/10/2016

Tgt Ion:142 Resp: 23307

Ion	Ratio	Lower	Upper
142	100		
127	42.5	22.1	62.1
141	14.2	0.0	34.5



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW3.D Vial: 7
Acq On : 4 Oct 2016 12:51 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:02 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1129896	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	847947	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	469451	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	292025	3.953 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 99 %	
45) SURR12DCAd4	7.36	102	57116	3.712 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 93 %	
61) SURRd8Tolule	9.80	98	1087161	3.971 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 99 %	
83) SURR4BrFBenz	13.36	95	370994	3.872 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 97 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	56890	1.3402 ug/L	98
3) Chloromethan	2.16	50	74612	0.9589 ug/L	97
4) VinylChlorid	2.29	62	69267	1.0444 ug/L	97
5) Bromomethane	2.77	94	32079	1.0237 ug/L	99
6) Chloroethane	2.93	64	42087	0.9454 ug/L	100
7) Dichloroflmethane	3.25	67	111219	0.9931 ug/L	99
8) Trichlorofma	3.31	101	87965	0.9968 ug/L	99
9) Ethylether	3.76	59	35819	0.9306 ug/L	92
10) dichlorotfluoroethan	3.78	67	61718	1.0406 ug/L	95
11) propyleneoxide	3.83	58	46311	9.1950 ug/L	98
12) Acrolein	3.92	56	33068	4.5986 ug/L	98
13) 11dichlorthe	4.05	96	51383	1.0170 ug/L	97
14) Trichlorotfluoroeth	4.07	101	110193	2.1085 ug/L	98
15) Acetone	4.15	43	113495	6.8411 ug/L	96
16) Iodomethane	4.24	142	60610	1.8815 ug/L	99
17) Carbon Dislf	4.32	76	247304	1.9003 ug/L	100
18) allylchloride	4.55	41	160084	1.9219 ug/L	98
19) methylacetate	4.60	74	8022	0.9262 ug/L	91
20) Methylchlorid	4.71	84	83243	0.6109 ug/L	97
21) tbutylalcohol	4.91	59	106917	49.7114 ug/L	97
22) Acrylonitrile	5.04	53	53314	5.2449 ug/L	97
23) t12dichlorte	5.08	96	54604	0.9849 ug/L	99
24) MtBE	5.09	73	116294	0.9409 ug/L	96
25) Hexane	5.44	57	141349	2.0262 ug/L	98
26) 11dichlorota	5.62	63	105006	1.0044 ug/L	100
27) Vinylacetate	5.71	43	650887	9.9665 ug/L	98
28) chloroprene	5.73	53	184470	2.0557 ug/L	99
29) Diisopether	5.73	45	195639	1.0284 ug/L	99
30) ETBE	6.18	59	138247	0.9880 ug/L	99
31) 22dichloropr	6.34	77	65946	0.9725 ug/L	98
32) c12dichlorte	6.36	96	63871	0.9723 ug/L	98
33) 2Butanone	6.38	72	36036	9.9687 ug/L	95
34) propionitrile	6.45	54	38570	10.0286 ug/L	98
35) Ethylacetate	6.47	88	5818	6.5466 ug/L	96
36) methacrylonitrile	6.63	67	26724	2.0033 ug/L	98
37) Bromochlorma	6.65	128	28365	0.9755 ug/L	100
38) Tetrahydofur	6.71	42	95331	8.1144 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW3.D Vial: 7
Acq On : 4 Oct 2016 12:51 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:02 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.76	83	110333	0.9085 ug/L	99
40) 111trichlota	6.98	97	85044	0.9908 ug/L	97
42) Cyclohexane	7.05	56	93037	1.0584 ug/L	97
43) Carbtetraclo	7.19	119	61801	1.0585 ug/L	97
44) 11dicloprope	7.19	110	25723	0.9215 ug/L	94
46) Benzene	7.44	78	239570	0.9889 ug/L	98
47) 12dichlorota	7.46	62	67340	0.9168 ug/L	98
48) TAME	7.59	73	120385	1.0041 ug/L	98
49) trichloroete	8.24	95	58434	0.9825 ug/L	97
50) methylcyclohexane	8.49	83	89027	0.9880 ug/L	95
51) 12dicloropra	8.52	63	61123	0.9497 ug/L	91
52) 23Dicl1propene	8.58	75	89064	1.0239 ug/L	98
53) Dibromometha	8.67	93	28607	0.9381 ug/L	98
54) methylmethacrylate	8.69	69	21366	1.0236 ug/L	94
55) 14dioxane	8.70	88	9621	45.4121 ug/L	98
56) Bromodiclrma	8.87	83	73022	0.9594 ug/L	99
57) 2Nitropropane	9.15	43	55575	8.9464 ug/L	98
58) 2CLEVE	9.26	63	43939	5.1058 ug/L	93
59) c13dicloproe	9.45	75	75247	1.0216 ug/L	99
60) 4Meth2Pentan	9.64	43	346040	9.4115 ug/L	100
62) Toluene	9.88	92	147031	0.9981 ug/L	99
63) t13Dicloprop	10.16	75	52292	0.9941 ug/L	96
64) ethylmethacrylate	10.29	69	88299	1.8914 ug/L	98
65) 112Triclotha	10.40	83	36228	0.9199 ug/L	92
66) Tetrachlorte	10.60	166	74129	1.0674 ug/L	98
67) 13Diclorpropa	10.62	76	72464	0.9987 ug/L	94
69) 2Hexanone	10.74	43	236705	9.7149 ug/L	98
70) Clorodibrmta	10.92	129	47534	1.0963 ug/L	96
71) 12Dibrometha	11.08	107	38747	1.0271 ug/L	98
72) Chlorobenzen	11.76	112	161602	1.0207 ug/L	98
73) 1Clhexane	11.72	91	75918	1.0482 ug/L	96
74) 1112Tetclota	11.87	131	47125	0.9283 ug/L	89
75) Ethylbenzene	11.91	91	270019	1.0454 ug/L	98
76) m p-Xylene	12.07	106	206007	2.1418 ug/L	100
77) o-Xylene	12.63	106	96401	1.0191 ug/L	100
78) Styrene	12.65	104	150697	1.0307 ug/L	97
79) Bromoform	12.89	173	27576	0.9381 ug/L	98
80) Isopropylben	13.15	105	237015	1.0374 ug/L	99
81) cyclohexanone	13.27	55	12881	18.0125 ug/L	95
84) Bromobenzene	13.58	156	72603	0.8867 ug/L	98
85) 1122Tetrclta	13.56	83	45730	0.9423 ug/L	97
86) 123Triclproa	13.62	75	40717	0.9278 ug/L	96
87) 14dichloro2butene	13.65	53	8571	0.9965 ug/L	85
88) n-Propylbenz	13.73	91	290066	1.0141 ug/L	99
89) 2chlorotolue	13.86	91	175838	0.9666 ug/L	99
90) 4chlorotolue	14.01	91	196114	1.0162 ug/L	97
91) 135Trimebenz	13.99	105	211274	0.9976 ug/L	98
92) tbutylbenzen	14.46	119	185192	1.0490 ug/L	97
93) 124Trimetben	14.53	105	208843	1.0240 ug/L	98
94) sbutylbenzen	14.78	105	271086	1.0236 ug/L	99
95) 13Diclorbenz	14.93	146	126045	1.0218 ug/L	99
96) pIsopropylto	14.99	119	219171	1.0123 ug/L	98
97) 14dichlorobe	15.06	146	119088	0.9683 ug/L	95
98) 12dichlorobe	15.60	146	117627	0.9409 ug/L	97
99) nButylbenzen	15.59	91	187386	0.9655 ug/L	98
100) 12dibromo3cl	16.72	157	6998	1.0642 ug/L	94
101) 135Trichlorobenzene	17.01	180	94776	1.0067 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW3.D Vial: 7
Acq On : 4 Oct 2016 12:51 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:02 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	72405	1.0392 ug/L	99
103) Hexachlorobu	18.06	225	49340	0.8963 ug/L	96
104) Naphthalene	18.14	128	105363	0.9312 ug/L	98
105) 123Trichlben	18.44	180	67255	0.9324 ug/L	97

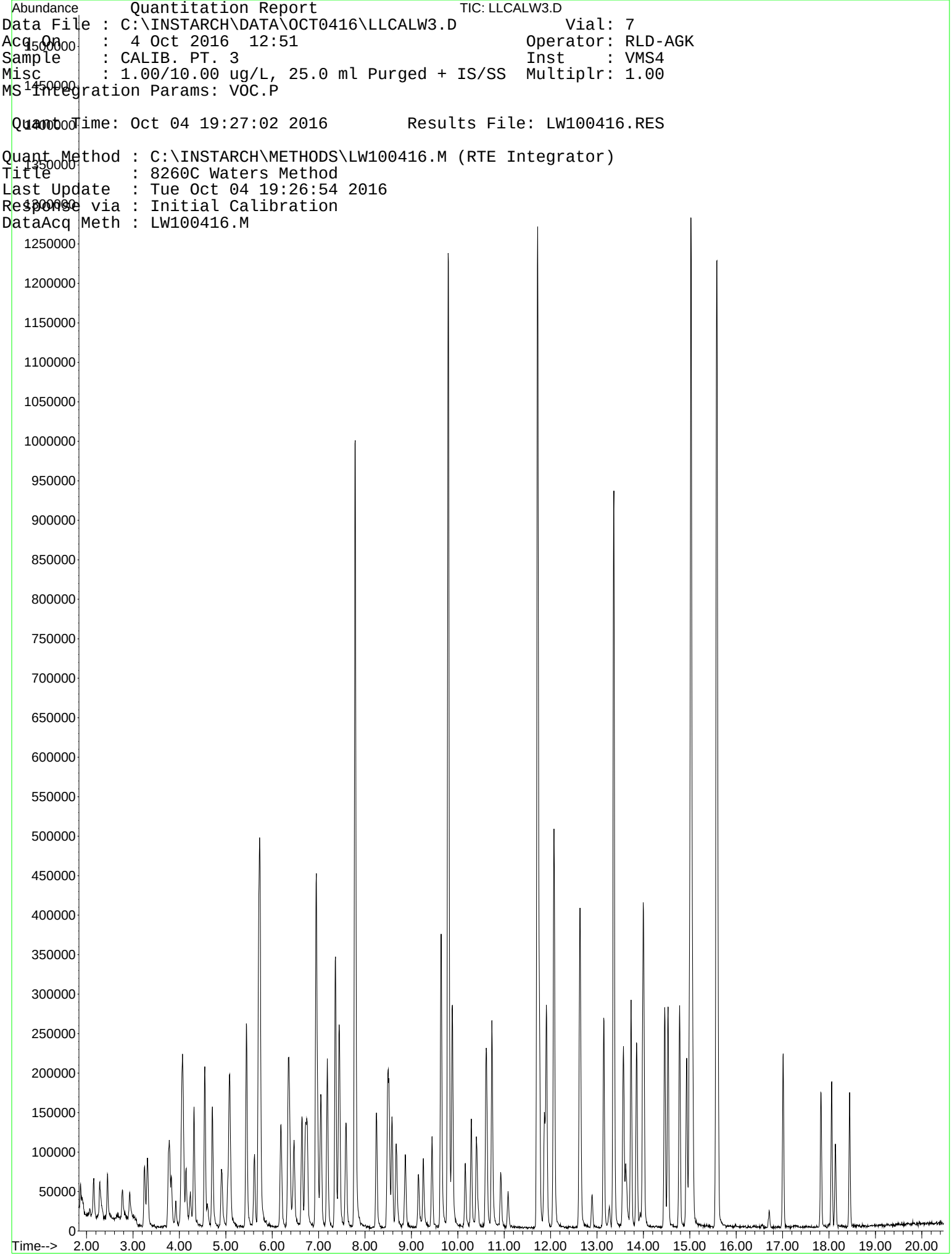
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW3.D Vial: 7
Acq. On : 4 Oct 2016 12:51 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 1.00/10.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:02 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:26:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW4.D Vial: 8
Acq On : 4 Oct 2016 13:21 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:19 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:09 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1114398	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	851684	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.03	152	470910	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	286324	3.941 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 99 %	
45) SURR12DCAd4	7.37	102	58676	3.937 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 98 %	
61) SURRd8Tolule	9.80	98	1081870	4.014 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 100 %	
83) SURR4BrFBenz	13.36	95	375655	3.940 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 99 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	112053	2.4666 ug/L	96
3) Chloromethan	2.15	50	149182	1.9642 ug/L	99
4) VinylChlorid	2.29	62	135506	2.0488 ug/L	98
5) Bromomethane	2.77	94	59607	1.9173 ug/L	100
6) Chloroethane	2.93	64	78461	1.8117 ug/L	99
7) Dichloroflmethane	3.25	67	226693	2.0559 ug/L	96
8) Trichlorofma	3.31	101	174062	2.0014 ug/L	95
9) Ethylether	3.76	59	79610	2.1342 ug/L	95
10) dichlorotfluoroethan	3.78	67	127060	2.1502 ug/L	96
11) propyleneoxide	3.82	58	93105	19.1280 ug/L	96
12) Acrolein	3.92	56	64382	9.2638 ug/L	94
13) 11dichlorthe	4.04	96	105866	2.1155 ug/L	93
14) Trichlorotfluoroeth	4.07	101	221455	4.2389 ug/L	97
15) Acetone	4.14	43	215614	14.3071 ug/L	96
16) Iodomethane	4.23	142	167263	5.3436 ug/L	98
17) Carbon Dislf	4.31	76	494965	3.9049 ug/L	99
18) allylchloride	4.55	41	342425	4.2092 ug/L	100
19) methylacetate	4.61	74	17388	2.0738 ug/L	99
20) Methylchlorid	4.71	84	139699	1.1515 ug/L	99
21) tbutylalcohol	4.91	59	230598	108.8655 ug/L	94
22) Acrylonitrile	5.04	53	111934	11.0298 ug/L	98
23) t12dichlorte	5.08	96	115760	2.1251 ug/L	96
24) MtBE	5.09	73	244004	2.0316 ug/L	99
25) Hexane	5.44	57	292199	4.2329 ug/L	99
26) 11dichlorota	5.61	63	215777	2.0904 ug/L	99
27) Vinylacetate	5.70	43	1455880	22.6217 ug/L	99
28) chloroprene	5.73	53	376498	4.2246 ug/L	99
29) Diisopether	5.73	45	415113	2.1968 ug/L	99
30) ETBE	6.18	59	290091	2.1084 ug/L	99
31) 22dichloropr	6.34	77	135604	2.0415 ug/L	100
32) c12dichlorte	6.36	96	133608	2.0765 ug/L	100
33) 2Butanone	6.38	72	70861	19.8906 ug/L	96
34) propionitrile	6.44	54	77649	20.4557 ug/L	97
35) Ethylacetate	6.47	88	11759	12.4526 ug/L #	88
36) methacrylonitrile	6.64	67	53185	4.0406 ug/L	97
37) Bromochlorma	6.65	128	57426	2.0147 ug/L	97
38) Tetrahydofur	6.71	42	196201	17.7703 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW4.D Vial: 8
Acq On : 4 Oct 2016 13:21 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:19 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:09 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.75	83	225245	1.9246 ug/L	99
40) 111trichlota	6.98	97	179345	2.1233 ug/L	99
42) Cyclohexane	7.05	56	179266	2.0379 ug/L	98
43) Carbtetraclo	7.19	119	135503	2.3193 ug/L	100
44) 11dicloprope	7.18	110	55894	2.0708 ug/L	99
46) Benzene	7.44	78	496372	2.0832 ug/L	99
47) 12dichlorota	7.46	62	138698	1.9552 ug/L	99
48) TAME	7.59	73	254257	2.1480 ug/L	99
49) trichloroete	8.25	95	121175	2.0749 ug/L	99
50) methylcyclohexane	8.49	83	179652	2.0275 ug/L	95
51) 12dicloropra	8.52	63	130755	2.0861 ug/L	97
52) 23Dicl1propene	8.58	75	178844	2.0723 ug/L	99
53) Dibromometha	8.67	93	61235	2.0681 ug/L	97
54) methylmethacrylate	8.67	69	46639	2.2521 ug/L	96
55) 14dioxane	8.70	88	20025	98.0846 ug/L	90
56) Bromodiclrma	8.87	83	153669	2.0681 ug/L	98
57) 2Nitropropane	9.15	43	117664	19.7243 ug/L	100
58) 2CLEVE	9.26	63	96447	11.3035 ug/L	99
59) c13dicloproe	9.45	75	160956	2.2038 ug/L	99
60) 4Meth2Pentan	9.64	43	739493	20.6967 ug/L	98
62) Toluene	9.88	92	302842	2.0854 ug/L	100
63) t13Dicloprop	10.16	75	113861	2.1978 ug/L	98
64) ethylmethacrylate	10.29	69	195739	4.3096 ug/L	99
65) 112Triclotha	10.40	83	72818	1.9130 ug/L	95
66) Tetrachlorte	10.61	166	150909	2.1666 ug/L	98
67) 13Diclorpropa	10.62	76	140781	1.9679 ug/L	99
69) 2Hexanone	10.74	43	523979	21.5646 ug/L	98
70) Clorodibrmta	10.92	129	97795	2.1928 ug/L	99
71) 12Dibrometha	11.08	107	76853	2.0147 ug/L	98
72) Chlorobenzen	11.76	112	329015	2.0584 ug/L	99
73) 1Clhexane	11.72	91	152486	2.0712 ug/L	97
74) 1112Tetclota	11.87	131	109412	2.1849 ug/L	95
75) Ethylbenzene	11.91	91	570494	2.1744 ug/L	98
76) m p-Xylene	12.07	106	430716	4.3807 ug/L	100
77) o-Xylene	12.63	106	210330	2.2031 ug/L	99
78) Styrene	12.64	104	338132	2.2850 ug/L	96
79) Bromoform	12.90	173	56803	1.9541 ug/L	98
80) Isopropylben	13.14	105	503573	2.1742 ug/L	98
81) cyclohexanone	13.27	55	30729	43.8722 ug/L	97
84) Bromobenzene	13.58	156	155858	1.9530 ug/L	97
85) 1122Tetrclta	13.56	83	97336	2.0288 ug/L	98
86) 123Triclproa	13.63	75	102079	2.3614 ug/L	92
87) 14dichloro2butene	13.64	53	17699	2.0532 ug/L	90
88) n-Propylbenz	13.73	91	617483	2.1445 ug/L	100
89) 2chlorotolue	13.85	91	365825	2.0217 ug/L	99
90) 4chlorotolue	14.01	91	421377	2.1679 ug/L	97
91) 135Trimebenz	13.99	105	447874	2.1096 ug/L	97
92) tbutylbenzen	14.46	119	382451	2.1335 ug/L	98
93) 124Trimetben	14.53	105	450265	2.1877 ug/L	96
94) sbutylbenzen	14.78	105	568039	2.1257 ug/L	99
95) 13Diclorbenz	14.93	146	261684	2.1033 ug/L	100
96) pIsopropylto	14.99	119	470359	2.1591 ug/L	100
97) 14dichlorobe	15.06	146	259477	2.1200 ug/L	98
98) 12dichlorobe	15.60	146	255269	2.0660 ug/L	99
99) nButylbenzen	15.59	91	406762	2.1075 ug/L	100
100) 12dibromo3cl	16.71	157	15836	2.3628 ug/L	96
101) 135Trichlorobenzene	17.01	180	213264	2.2544 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW4.D Vial: 8
Acq On : 4 Oct 2016 13:21 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:19 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:09 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	163460	2.3161 ug/L	99
103) Hexachlorobu	18.06	225	103839	1.9305 ug/L	98
104) Naphthalene	18.14	128	250781	2.2482 ug/L	98
105) 123Trichlben	18.44	180	156054	2.1938 ug/L	97

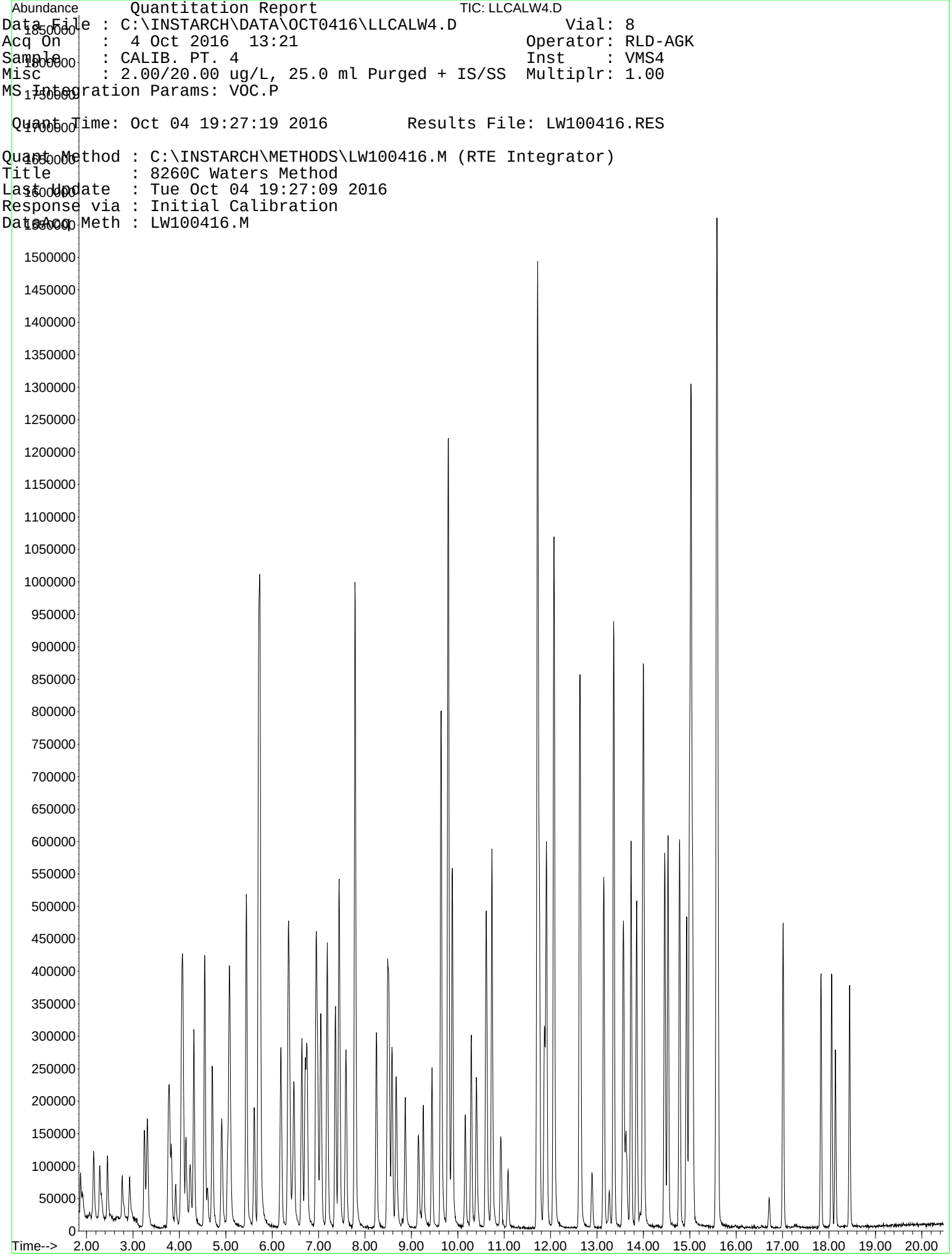
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW4.D Vial: 8
Acq On : 4 Oct 2016 13:21 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 2.00/20.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:19 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:09 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW5.D Vial: 9
Acq On : 4 Oct 2016 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:33 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:26 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1113952	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	845881	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	465828	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	284143	3.924 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 98 %	
45) SURR12DCAd4	7.37	102	57672	3.883 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 97 %	
61) SURRd8Tolule	9.79	98	1071500	3.974 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 99 %	
83) SURR4BrFBenz	13.36	95	379727	4.038 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 101 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	204066	4.2935 ug/L	100
3) Chloromethan	2.15	50	266842	3.5273 ug/L	100
4) VinylChlorid	2.29	62	253473	3.8153 ug/L	100
5) Bromomethane	2.77	94	102556	3.3277 ug/L	100
6) Chloroethane	2.93	64	139578	3.2861 ug/L	100
7) Dichloroflmethane	3.25	67	408319	3.6839 ug/L	100
8) Trichlorofma	3.31	101	332438	3.8234 ug/L	100
9) Ethylether	3.76	59	156959	4.1537 ug/L	100
10) dichlorotfluoroethan	3.78	67	226166	3.7722 ug/L	100
11) propyleneoxide	3.82	58	194179	40.2602 ug/L	100
12) Acrolein	3.92	56	137336	20.0643 ug/L	100
13) 11dichlorthe	4.04	96	194602	3.8458 ug/L	100
14) Trichlorotfluoroeth	4.07	101	404426	7.6529 ug/L	100
15) Acetone	4.14	43	439395	30.9285 ug/L	100
16) Iodomethane	4.23	142	383182	11.4757 ug/L	99
17) Carbon Dislf	4.31	76	966214	7.6621 ug/L	100
18) allylchloride	4.55	41	644086	7.8385 ug/L	100
19) methylacetate	4.60	74	33941	4.0199 ug/L	100
20) Methylchlorid	4.71	84	239621	2.1591 ug/L	100
21) tbutylalcohol	4.91	59	460837	213.8567 ug/L	100
22) Acrylonitrile	5.04	53	230443	22.2582 ug/L	100
23) t12dichlorte	5.07	96	211253	3.8317 ug/L	100
24) MtBE	5.10	73	491327	4.0796 ug/L	100
25) Hexane	5.44	57	578768	8.2911 ug/L	100
26) 11dichlorota	5.61	63	388626	3.7327 ug/L	100
27) Vinylacetate	5.70	43	3046816	46.1509 ug/L	100
28) chloroprene	5.73	53	713514	7.9204 ug/L	100
29) Diisopether	5.73	45	768029	3.9876 ug/L	100
30) ETBE	6.18	59	572260	4.1162 ug/L	100
31) 22dichloropr	6.34	77	262481	3.9369 ug/L	100
32) c12dichlorte	6.36	96	244529	3.7731 ug/L	100
33) 2Butanone	6.37	72	145219	40.8237 ug/L	100
34) propionitrile	6.44	54	159842	41.9342 ug/L	100
35) Ethylacetate	6.47	88	24377	24.6177 ug/L	100
36) methacrylonitrile	6.63	67	112281	8.5164 ug/L	100
37) Bromochlorma	6.64	128	106461	3.7311 ug/L	100
38) Tetrahydofur	6.71	42	406665	37.6875 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW5.D Vial: 9
Acq On : 4 Oct 2016 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:33 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:26 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	408663	3.5197 ug/L	100
40)	111trichlota	6.98	97	334685	3.9158 ug/L	100
42)	Cyclohexane	7.05	56	345561	3.9151 ug/L	100
43)	Carbtetraclo	7.19	119	260106	4.3160 ug/L	100
44)	11dicloprope	7.19	110	105648	3.8882 ug/L	100
46)	Benzene	7.44	78	907018	3.7767 ug/L	100
47)	12dichlorota	7.46	62	277896	3.9366 ug/L	100
48)	TAME	7.59	73	503538	4.1937 ug/L	100
49)	trichloroete	8.25	95	223627	3.8023 ug/L	100
50)	methylcyclohexane	8.49	83	369636	4.1618 ug/L	100
51)	12dicloropra	8.51	63	236912	3.7490 ug/L	100
52)	23Dicl1propene	8.58	75	344766	3.9677 ug/L	100
53)	Dibromometha	8.67	93	115815	3.8865 ug/L	100
54)	methylmethacrylate	8.68	69	98621	4.6470 ug/L	100
55)	14dioxane	8.70	88	34399	169.2057 ug/L	100
56)	Bromodiclrma	8.87	83	293848	3.9295 ug/L	100
57)	2Nitropropane	9.15	43	276965	46.5754 ug/L	100
58)	2CLEVE	9.26	63	222394	25.4122 ug/L	100
59)	c13dicloproe	9.45	75	322679	4.3315 ug/L	100
60)	4Meth2Pentan	9.64	43	1484121	41.2662 ug/L	100
62)	Toluene	9.88	92	549482	3.7533 ug/L	100
63)	t13Dicloprop	10.16	75	239355	4.5324 ug/L	100
64)	ethylmethacrylate	10.29	69	415287	9.0075 ug/L	100
65)	112Triclotha	10.40	83	138415	3.6696 ug/L	100
66)	Tetrachlorte	10.61	166	280390	3.9612 ug/L	100
67)	13Diclorpropa	10.63	76	280623	3.9369 ug/L	100
69)	2Hexanone	10.74	43	1033181	42.1533 ug/L	100
70)	Clorodibrmta	10.92	129	196615	4.3549 ug/L	100
71)	12Dibrometha	11.08	107	163474	4.3085 ug/L	100
72)	Chlorobenzen	11.76	112	603162	3.7773 ug/L	100
73)	1Clhexane	11.72	91	288186	3.9134 ug/L	100
74)	1112Tetclota	11.87	131	220906	4.3610 ug/L	100
75)	Ethylbenzene	11.91	91	1043092	3.9343 ug/L	100
76)	m p-Xylene	12.07	106	798814	8.0275 ug/L	100
77)	o-Xylene	12.63	106	393505	4.0675 ug/L	100
78)	Styrene	12.64	104	627954	4.1543 ug/L	100
79)	Bromoform	12.90	173	119491	4.1579 ug/L	100
80)	Isopropylben	13.14	105	949691	4.0577 ug/L	100
81)	cyclohexanone	13.27	55	60684	85.5768 ug/L	100
84)	Bromobenzene	13.57	156	292685	3.7250 ug/L	100
85)	1122Tetrclta	13.56	83	194888	4.0946 ug/L	100
86)	123Triclproa	13.63	75	175406	3.9588 ug/L	100
87)	14dichloro2butene	13.64	53	36380	4.2438 ug/L	100
88)	n-Propylbenz	13.73	91	1187093	4.1083 ug/L	100
89)	2chlorotolue	13.85	91	704450	3.9270 ug/L	100
90)	4chlorotolue	14.01	91	804374	4.1143 ug/L	100
91)	135Trimebenz	13.99	105	877532	4.1331 ug/L	100
92)	tbutylbenzen	14.46	119	714576	3.9766 ug/L	100
93)	124Trimetben	14.53	105	869624	4.1927 ug/L	100
94)	sbutylbenzen	14.78	105	1099685	4.1085 ug/L	100
95)	13Diclorbenz	14.93	146	500395	4.0243 ug/L	100
96)	pIsopropylto	14.99	119	914603	4.1776 ug/L	100
97)	14dichlorobe	15.06	146	488171	3.9842 ug/L	100
98)	12dichlorobe	15.60	146	475989	3.8689 ug/L	100
99)	nButylbenzen	15.59	91	807143	4.1825 ug/L	100
100)	12dibromo3cl	16.71	157	31520	4.5878 ug/L	100
101)	135Trichlorobenzene	17.01	180	408966	4.2619 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW5.D Vial: 9
Acq On : 4 Oct 2016 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:33 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:26 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	326740	4.5368 ug/L	100
103) Hexachlorobu	18.06	225	212876	4.0289 ug/L	100
104) Naphthalene	18.14	128	506504	4.4791 ug/L	100
105) 123Trichlben	18.44	180	294247	4.1022 ug/L	100

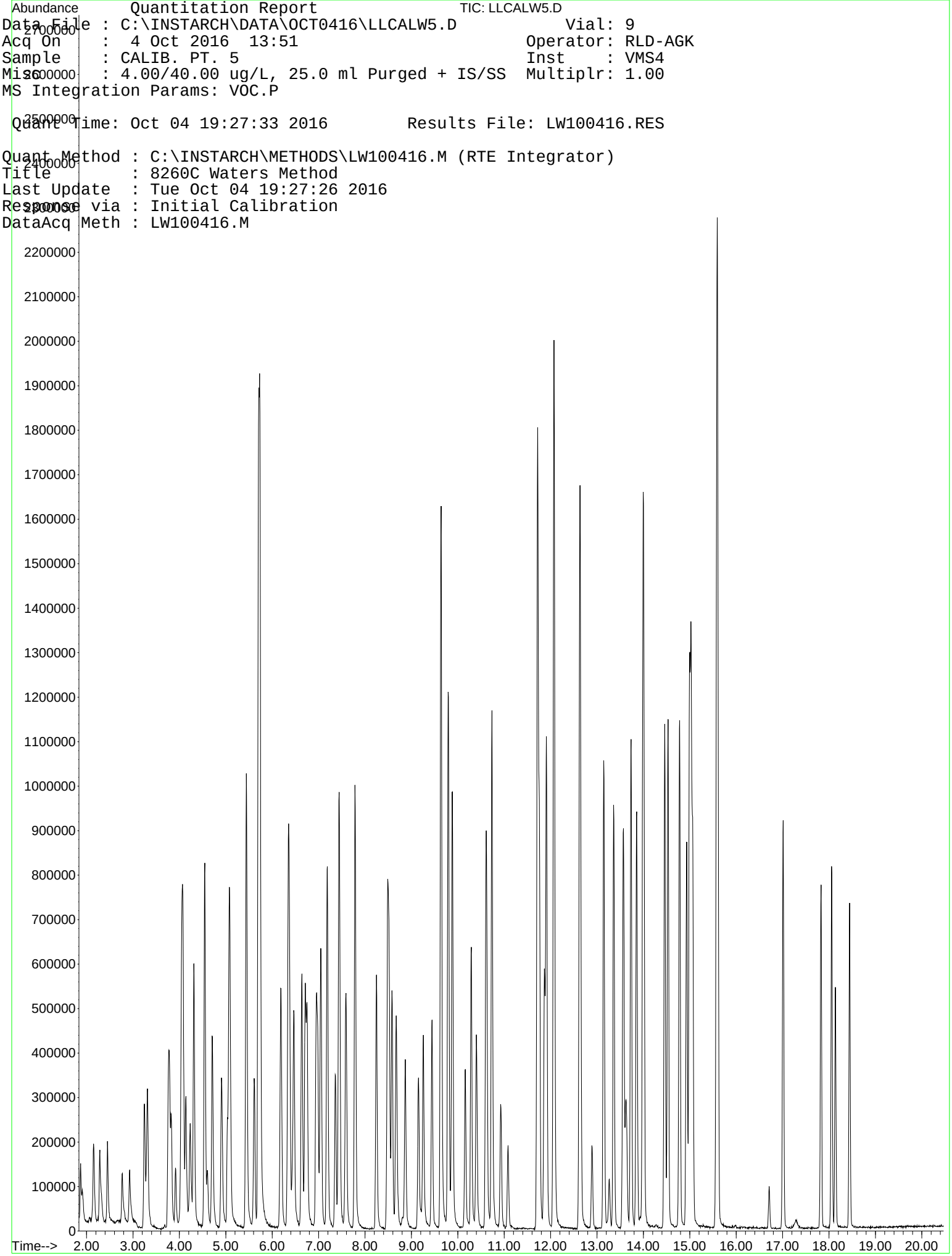
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW5.D Vial: 9
Acq On : 4 Oct 2016 13:51 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:33 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:26 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW6.D Vial: 10
Acq On : 4 Oct 2016 14:20 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:48 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:40 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1105943	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	830410	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	479436	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	280408	3.901 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 98 %	
45) SURR12DCAd4	7.35	102	59178	4.014 ug/L	-0.01
Spiked Amount 4.000	Range 89 - 112		Recovery	= 100 %	
61) SURRd8Tolule	9.79	98	1067721	3.989 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 100 %	
83) SURR4BrFBenz	13.36	95	381819	3.945 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 99 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.87	85	314617	6.6675 ug/L	99
3) Chloromethan	2.16	50	406223	5.4087 ug/L	99
4) VinylChlorid	2.29	62	378815	5.7433 ug/L	97
5) Bromomethane	2.77	94	158406	5.1770 ug/L	100
6) Chloroethane	2.93	64	207630	4.9237 ug/L	100
7) Dichloroflmethane	3.25	67	609731	5.5409 ug/L	94
8) Trichlorofma	3.31	101	491608	5.6924 ug/L	97
9) Ethylether	3.76	59	234757	6.2535 ug/L	99
10) dichlorotfluoroethan	3.78	67	345711	5.8079 ug/L	97
11) propyleneoxide	3.82	58	291868	60.9528 ug/L	96
12) Acrolein	3.92	56	211370	31.1041 ug/L	99
13) 11dichlorthe	4.04	96	291743	5.8073 ug/L	100
14) Trichlorotfluoroeth	4.07	101	612389	11.6693 ug/L	99
15) Acetone	4.13	43	655353	46.4374 ug/L	100
16) Iodomethane	4.23	142	640833	19.0777 ug/L	99
17) Carbon Dislf	4.31	76	1440668	11.5073 ug/L	100
18) allylchloride	4.54	41	965219	11.8252 ug/L	99
19) methylacetate	4.60	74	54373	6.4864 ug/L	96
20) Methylchlorid	4.71	84	363995	3.3035 ug/L	93
21) tbutylalcohol	4.91	59	717430	335.3426 ug/L	99
22) Acrylonitrile	5.04	53	341363	33.2106 ug/L	98
23) t12dichlorte	5.07	96	313343	5.7246 ug/L	99
24) MtBE	5.09	73	744581	6.2247 ug/L	100
25) Hexane	5.44	57	872868	12.5948 ug/L	99
26) 11dichlorota	5.61	63	594844	5.7548 ug/L	100
27) Vinylacetate	5.70	43	4551808	69.4467 ug/L	99
28) chloroprene	5.73	53	1062956	11.8849 ug/L	100
29) Diisopether	5.73	45	1139727	5.9603 ug/L	99
30) ETBE	6.18	59	880519	6.3793 ug/L	99
31) 22dichloropr	6.34	77	412671	6.2344 ug/L	98
32) c12dichlorte	6.35	96	376483	5.8512 ug/L	96
33) 2Butanone	6.37	72	225019	63.6571 ug/L	96
34) propionitrile	6.44	54	236767	62.5651 ug/L	99
35) Ethylacetate	6.46	88	39142	39.8148 ug/L #	91
36) methacrylonitrile	6.64	67	169967	12.9853 ug/L	99
37) Bromochlorma	6.64	128	163091	5.7572 ug/L	99
38) Tetrahydofur	6.71	42	609783	56.9064 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW6.D Vial: 10
Acq On : 4 Oct 2016 14:20 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:48 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:40 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	621754	5.3938 ug/L	100
40)	111trichlota	6.98	97	514951	6.0685 ug/L	98
42)	Cyclohexane	7.05	56	530725	6.0545 ug/L	99
43)	Carbtetraclo	7.19	119	406384	6.7914 ug/L	99
44)	11dicloprope	7.19	110	156991	5.8196 ug/L	97
46)	Benzene	7.44	78	1368308	5.7387 ug/L	100
47)	12dichlorota	7.46	62	406438	5.7992 ug/L	100
48)	TAME	7.59	73	786573	6.5983 ug/L	97
49)	trichloroete	8.25	95	341714	5.8521 ug/L	100
50)	methylcyclohexane	8.49	83	555251	6.2970 ug/L	97
51)	12dicloropra	8.52	63	361235	5.7577 ug/L	99
52)	23Dicl1propene	8.58	75	522606	6.0579 ug/L	98
53)	Dibromometha	8.67	93	178096	6.0197 ug/L	99
54)	methylmethacrylate	8.67	69	154744	7.3405 ug/L	98
55)	14dioxane	8.70	88	50943	252.3988 ug/L	94
56)	Bromodiclrma	8.87	83	457286	6.1593 ug/L	99
57)	2Nitropropane	9.15	43	459563	77.8413 ug/L	97
58)	2CLEVE	9.26	63	346936	39.9175 ug/L	98
59)	c13dicloproe	9.45	75	504156	6.8166 ug/L	100
60)	4Meth2Pentan	9.64	43	2235078	62.5968 ug/L	99
62)	Toluene	9.88	92	844868	5.8127 ug/L	97
63)	t13Dicloprop	10.16	75	371516	7.0859 ug/L	99
64)	ethylmethacrylate	10.29	69	642567	14.0382 ug/L	100
65)	112Triclotha	10.40	83	210581	5.6233 ug/L	98
66)	Tetrachlorte	10.61	166	430430	6.1250 ug/L	99
67)	13Diclorpropa	10.63	76	420277	5.9388 ug/L	100
69)	2Hexanone	10.74	43	1603465	66.6394 ug/L	100
70)	Clorodibrmta	10.93	129	308213	6.9539 ug/L	99
71)	12Dibrometha	11.08	107	250685	6.7301 ug/L	98
72)	Chlorobenzen	11.76	112	909170	5.8003 ug/L	99
73)	1Clhexane	11.72	91	458524	6.3425 ug/L	96
74)	1112Tetclota	11.87	131	333115	6.6987 ug/L	97
75)	Ethylbenzene	11.91	91	1592567	6.1187 ug/L	99
76)	m p-Xylene	12.07	106	1222594	12.5151 ug/L	99
77)	o-Xylene	12.63	106	600819	6.3261 ug/L	97
78)	Styrene	12.64	104	978937	6.5975 ug/L	99
79)	Bromoform	12.89	173	199481	7.0706 ug/L	95
80)	Isopropylben	13.14	105	1468685	6.3921 ug/L	98
81)	cyclohexanone	13.27	55	87191	125.2479 ug/L	98
84)	Bromobenzene	13.57	156	454817	5.6241 ug/L	99
85)	1122Tetrclta	13.56	83	294549	6.0129 ug/L	98
86)	123Triclproa	13.63	75	274160	6.0120 ug/L	99
87)	14dichloro2butene	13.64	53	61198	6.9362 ug/L	98
88)	n-Propylbenz	13.73	91	1809144	6.0835 ug/L	99
89)	2chlorotolue	13.85	91	1081794	5.8594 ug/L	100
90)	4chlorotolue	14.01	91	1242241	6.1737 ug/L	100
91)	135Trimebenz	13.99	105	1322724	6.0531 ug/L	98
92)	tbutylbenzen	14.46	119	1118742	6.0491 ug/L	99
93)	124Trimetben	14.53	105	1331193	6.2358 ug/L	99
94)	sbutylbenzen	14.78	105	1701092	6.1743 ug/L	99
95)	13Diclorbenz	14.93	146	763577	5.9666 ug/L	99
96)	pIsopropylto	14.99	119	1445784	6.4164 ug/L	99
97)	14dichlorobe	15.06	146	761469	6.0384 ug/L	99
98)	12dichlorobe	15.60	146	733042	5.7892 ug/L	99
99)	nButylbenzen	15.59	91	1273923	6.4140 ug/L	99
100)	12dibromo3cl	16.71	157	55279	7.8177 ug/L	98
101)	135Trichlorobenzene	17.01	180	632824	6.4076 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW6.D Vial: 10
Acq On : 4 Oct 2016 14:20 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:48 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:40 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	517787	6.9854 ug/L	99
103) Hexachlorobu	18.06	225	338014	6.2156 ug/L	98
104) Naphthalene	18.14	128	795582	6.8357 ug/L	99
105) 123Trichlben	18.44	180	469897	6.3651 ug/L	99

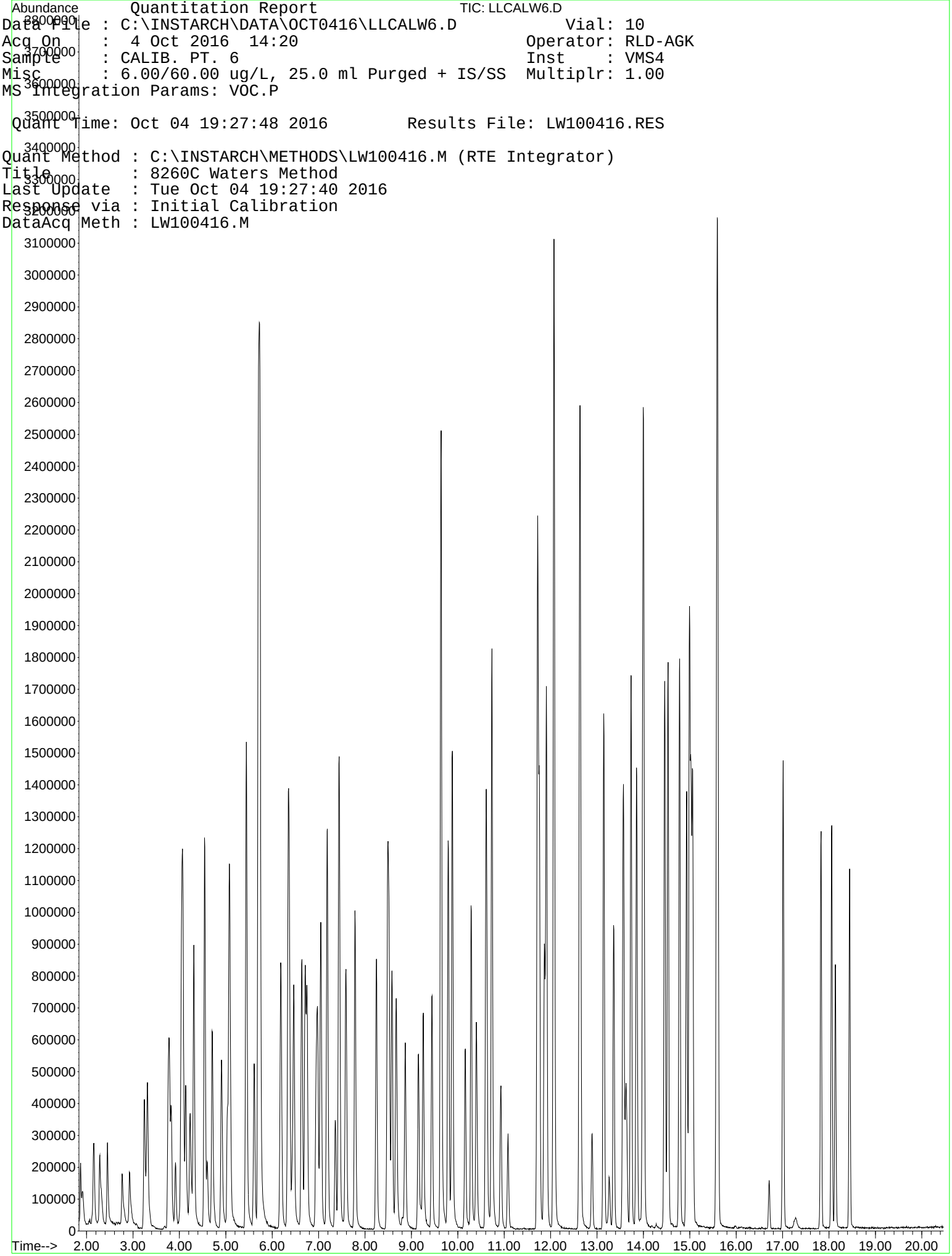
(#) = qualifier out of range (m) = manual integration
LLCALW6.D LW100416.M Mon Oct 10 13:34:43 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW6.D Vial: 10
Acq On : 4 Oct 2016 14:20 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 6.00/60.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:27:48 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:40 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW7.D Vial: 11
Acq On : 4 Oct 2016 14:50 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:56 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1166970	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	874297	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	501350	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	296900	3.930 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 98 %	
45) SURR12DCAd4	7.36	102	61079	3.924 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 98 %	
61) SURRd8Tolule	9.79	98	1109874	3.931 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 98 %	
83) SURR4BrFBenz	13.36	95	404722	4.008 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 100 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	429132	8.4618 ug/L	97
3) Chloromethan	2.16	50	526740	6.7575 ug/L	96
4) VinylChlorid	2.28	62	516080	7.4685 ug/L	99
5) Bromomethane	2.77	94	207628	6.5813 ug/L	100
6) Chloroethane	2.92	64	280017	6.4869 ug/L	100
7) Dichloroflmethane	3.25	67	823461	7.1834 ug/L	94
8) Trichlorofma	3.31	101	668644	7.4007 ug/L	100
9) Ethylether	3.76	59	317956	7.9708 ug/L	97
10) dichlorotfluoroethan	3.78	67	470415	7.5298 ug/L	98
11) propyleneoxide	3.82	58	404895	79.9235 ug/L	96
12) Acrolein	3.92	56	291374	40.3870 ug/L	100
13) 11dichlorthe	4.04	96	407771	7.7338 ug/L	96
14) Trichlorotfluoroeth	4.07	101	844537	15.3218 ug/L	98
15) Acetone	4.13	43	895935	62.5201 ug/L	100
16) Iodomethane	4.23	142	936961	24.0688 ug/L	99
17) Carbon Dislf	4.31	76	1935172	14.7498 ug/L	99
18) allylchloride	4.54	41	1293078	15.0500 ug/L	98
19) methylacetate	4.60	74	75583	8.4312 ug/L	100
20) Methylchlorid	4.71	84	471303	4.3819 ug/L	96
21) tbutylalcohol	4.91	59	1088885	473.0637 ug/L	97
22) Acrylonitrile	5.04	53	472949	42.8420 ug/L	98
23) t12dichlorte	5.08	96	424186	7.4010 ug/L	99
24) MtBE	5.09	73	1025708	8.0761 ug/L	99
25) Hexane	5.44	57	1217546	16.5131 ug/L	99
26) 11dichlorota	5.61	63	788880	7.2824 ug/L	100
27) Vinylacetate	5.70	43	6048793	85.2236 ug/L	98
28) chloroprene	5.73	53	1447324	15.3608 ug/L	100
29) Diisopether	5.73	45	1533410	7.6081 ug/L	99
30) ETBE	6.18	59	1186852	8.0641 ug/L	98
31) 22dichloropr	6.35	77	563306	8.0129 ug/L	99
32) c12dichlorte	6.35	96	506898	7.4971 ug/L	97
33) 2Butanone	6.37	72	309379	82.1111 ug/L	99
34) propionitrile	6.43	54	328445	81.6701 ug/L	98
35) Ethylacetate	6.47	88	54430	49.7571 ug/L #	91
36) methacrylonitrile	6.63	67	235541	16.8238 ug/L	99
37) Bromochlorma	6.65	128	212856	7.1693 ug/L	100
38) Tetrahydofur	6.71	42	836156	74.5923 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW7.D Vial: 11
Acq On : 4 Oct 2016 14:50 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:56 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	817512	6.8362 ug/L	99
40)	111trichlota	6.98	97	717773	8.0011 ug/L	97
42)	Cyclohexane	7.04	56	745159	8.0441 ug/L	100
43)	Carbtetraclo	7.19	119	569824	8.8306 ug/L	98
44)	11dicloprope	7.19	110	217941	7.6950 ug/L	98
46)	Benzene	7.44	78	1830448	7.3287 ug/L	100
47)	12dichlorota	7.46	62	558326	7.5921 ug/L	100
48)	TAME	7.59	73	1082357	8.4641 ug/L	98
49)	trichloroete	8.25	95	455099	7.4168 ug/L	97
50)	methylcyclohexane	8.49	83	774767	8.2588 ug/L	96
51)	12dicloropra	8.52	63	479976	7.2994 ug/L	99
52)	23Dicl1propene	8.58	75	721505	7.9134 ug/L	99
53)	Dibromometha	8.67	93	241438	7.7297 ug/L	100
54)	methylmethacrylate	8.68	69	209381	9.0750 ug/L	97
55)	14dioxane	8.70	88	80045	386.0554 ug/L	98
56)	Bromodiclrma	8.87	83	614106	7.8045 ug/L	100
57)	2Nitropropane	9.15	43	662441	101.3161 ug/L	94
58)	2CLEVE	9.26	63	518084	53.5420 ug/L	99
59)	c13dicloproe	9.45	75	695529	8.7147 ug/L	99
60)	4Meth2Pentan	9.64	43	3009810	79.3140 ug/L	98
62)	Toluene	9.88	92	1119356	7.3366 ug/L	100
63)	t13Dicloprop	10.16	75	523634	9.1879 ug/L	99
64)	ethylmethacrylate	10.29	69	888311	17.8857 ug/L	99
65)	112Triclotha	10.40	83	294487	7.5315 ug/L	96
66)	Tetrachlorte	10.61	166	586179	7.8777 ug/L	99
67)	13Diclorpropa	10.63	76	574915	7.7122 ug/L	98
69)	2Hexanone	10.74	43	2154778	83.5163 ug/L	99
70)	Clorodibrmta	10.93	129	424439	8.8607 ug/L	99
71)	12Dibrometha	11.08	107	337788	8.4421 ug/L	96
72)	Chlorobenzen	11.76	112	1228330	7.4846 ug/L	98
73)	1Clhexane	11.72	91	629757	8.1958 ug/L	96
74)	1112Tetclota	11.87	131	461389	8.6447 ug/L	97
75)	Ethylbenzene	11.91	91	2158965	7.8526 ug/L	100
76)	m p-Xylene	12.07	106	1654729	15.9741 ug/L	98
77)	o-Xylene	12.62	106	822630	8.1530 ug/L	95
78)	Styrene	12.65	104	1341214	8.4452 ug/L	97
79)	Bromoform	12.90	173	276346	9.0347 ug/L	97
80)	Isopropylben	13.14	105	1999867	8.1780 ug/L	98
81)	cyclohexanone	13.27	55	132960	180.0940 ug/L	97
84)	Bromobenzene	13.57	156	614054	7.3379 ug/L	99
85)	1122Tetrclta	13.56	83	393454	7.6781 ug/L	99
86)	123Triclproa	13.62	75	370483	7.7666 ug/L	99
87)	14dichloro2butene	13.65	53	84764	8.9544 ug/L	99
88)	n-Propylbenz	13.73	91	2451711	7.8656 ug/L	100
89)	2chlorotolue	13.86	91	1456562	7.5740 ug/L	99
90)	4chlorotolue	14.01	91	1664288	7.8716 ug/L	98
91)	135Trimebenz	13.99	105	1811729	7.9169 ug/L	99
92)	tbutylbenzen	14.46	119	1524913	7.8741 ug/L	100
93)	124Trimetben	14.53	105	1789678	7.9649 ug/L	98
94)	sbutylbenzen	14.78	105	2324148	8.0281 ug/L	97
95)	13Diclorbenz	14.93	146	1060479	7.9317 ug/L	99
96)	pIsopropylto	14.99	119	1950036	8.1814 ug/L	99
97)	14dichlorobe	15.06	146	1032476	7.8212 ug/L	99
98)	12dichlorobe	15.60	146	996230	7.5681 ug/L	99
99)	nButylbenzen	15.59	91	1761658	8.3855 ug/L	99
100)	12dibromo3cl	16.71	157	75720	9.7482 ug/L	99
101)	135Trichlorobenzene	17.01	180	883149	8.4556 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW7.D Vial: 11
Acq On : 4 Oct 2016 14:50 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:56 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	719469	9.0347 ug/L	98
103) Hexachlorobu	18.06	225	483865	8.4581 ug/L	97
104) Naphthalene	18.14	128	1108845	8.9042 ug/L	99
105) 123Trichlben	18.44	180	645615	8.2791 ug/L	99

(#) = qualifier out of range (m) = manual integration

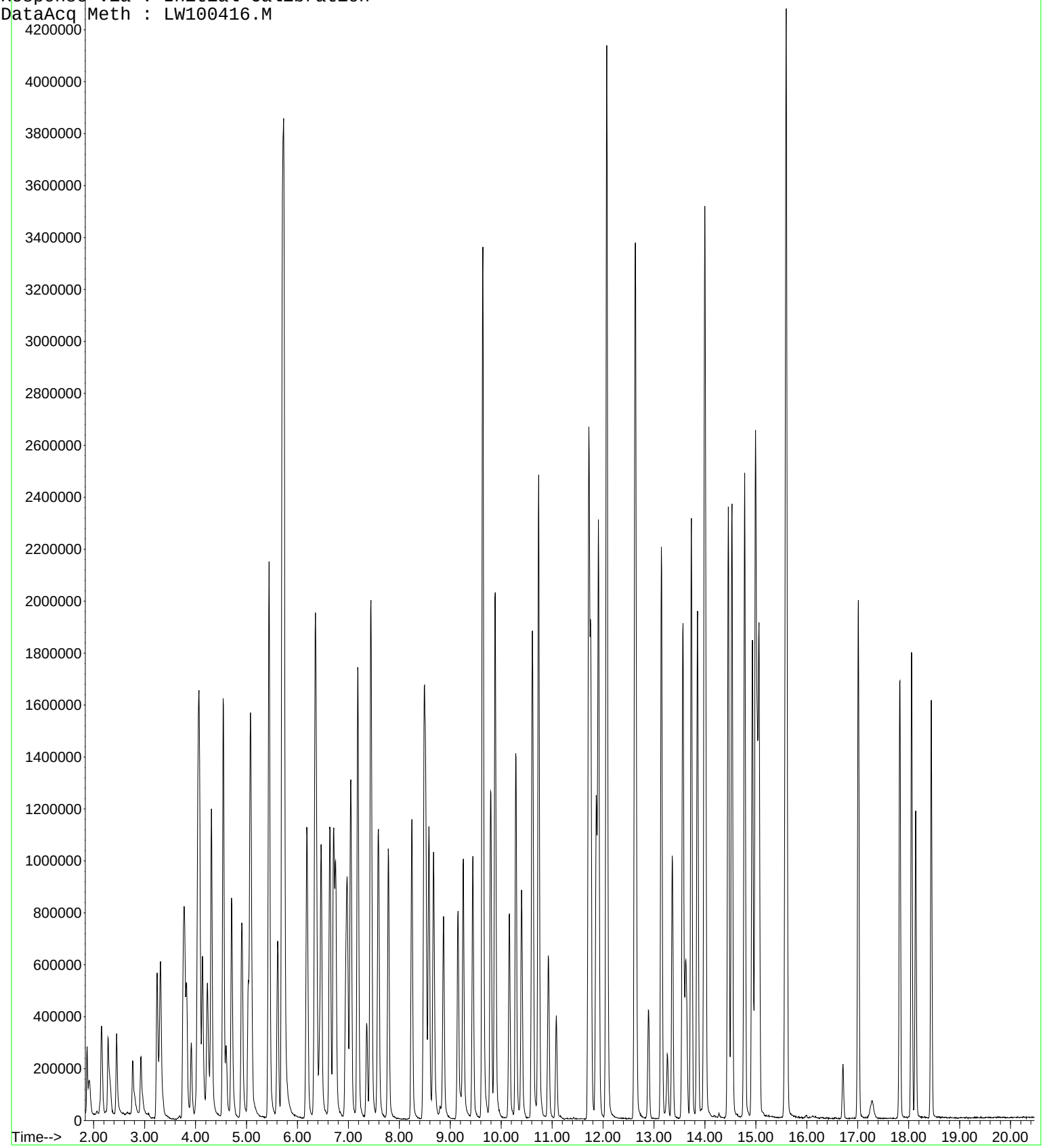
Quantitation Report

TIC: LLCALW7.D

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW7.D Vial: 11
Acq On : 4 Oct 2016 14:50 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 8.00/80.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:27:56 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW8.D Vial: 12
Acq On : 4 Oct 2016 15:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:20 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:11 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.79	96	1221217	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	914259	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	521836	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	313165	3.972 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 99 %	
45) SURR12DCAd4	7.37	102	59477	3.661 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 92 %	
61) SURRd8Tolule	9.79	98	1173630	3.982 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 100 %	
83) SURR4BrFBenz	13.36	95	419878	3.994 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 100 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	987825	18.4609 ug/L	99
3) Chloromethan	2.15	50	1221469	15.3139 ug/L	98
4) VinylChlorid	2.29	62	1178646	16.4553 ug/L	100
5) Bromomethane	2.77	94	507079	15.7584 ug/L	99
6) Chloroethane	2.93	64	649994	14.7886 ug/L	98
7) Dichloroflmethane	3.25	67	1882557	15.9252 ug/L	94
8) Trichlorofma	3.31	101	1623281	17.3544 ug/L	96
9) Ethylether	3.76	59	698422	16.7396 ug/L	98
10) dichlorotfluoroethan	3.79	67	1091484	16.8364 ug/L	97
11) propyleneoxide	3.82	58	834721	157.4707 ug/L	96
12) Acrolein	3.92	56	584707	77.3386 ug/L	98
13) 11dichlorthe	4.04	96	943199	17.1758 ug/L	96
14) Trichlorotfluoroeth	4.07	101	1948336	33.9828 ug/L	99
15) Acetone	4.13	43	1665826	114.6600 ug/L	98
16) Iodomethane	4.23	142	2405150	55.0718 ug/L	99
17) Carbon Dislf	4.32	76	4301721	31.6847 ug/L	98
18) allylchloride	4.54	41	2864579	32.1320 ug/L	98
19) methylacetate	4.60	74	154069	16.2974 ug/L	97
20) Methylchlorid	4.71	84	1026278	9.7476 ug/L	96
21) tbutylalcohol	4.91	59	2169366	877.7080 ug/L	95
22) Acrylonitrile	5.04	53	933913	80.0282 ug/L	98
23) t12dichlorte	5.08	96	992261	16.7223 ug/L	98
24) MtBE	5.09	73	2191642	16.4674 ug/L	99
25) Hexane	5.45	57	2792249	36.0229 ug/L	99
26) 11dichlorota	5.61	63	1835972	16.4059 ug/L	99
27) Vinylacetate	5.70	43	10989770	146.5934 ug/L	94
28) chloroprene	5.73	53	3265225	33.3053 ug/L	98
29) Diisopether	5.73	45	3399528	16.2314 ug/L	100
30) ETBE	6.18	59	2697741	17.4956 ug/L	99
31) 22dichloropr	6.35	77	1369120	18.6060 ug/L	99
32) c12dichlorte	6.36	96	1138701	16.2393 ug/L	99
33) 2Butanone	6.37	72	618618	156.3026 ug/L	96
34) propionitrile	6.44	54	664582	157.4427 ug/L	99
35) Ethylacetate	6.47	88	108786	91.8292 ug/L	94
36) methacrylonitrile	6.64	67	477467	32.3507 ug/L	99
37) Bromochlorma	6.65	128	456459	14.9125 ug/L	99
38) Tetrahydofur	6.71	42	1624893	139.8662 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW8.D Vial: 12
Acq On : 4 Oct 2016 15:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:20 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:11 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	1886964	15.3984 ug/L	99
40)	111trichlota	6.98	97	1688214	17.9824 ug/L	98
42)	Cyclohexane	7.05	56	1741561	17.9511 ug/L	99
43)	Carbtetraclo	7.19	119	1392890	20.3255 ug/L	97
44)	11dicloprope	7.19	110	505974	17.1648 ug/L	97
46)	Benzene	7.44	78	4125677	15.9760 ug/L	99
47)	12dichlorota	7.46	62	1191017	15.5896 ug/L	100
48)	TAME	7.59	73	2426170	17.9809 ug/L	97
49)	trichloroete	8.25	95	1061049	16.6979 ug/L	98
50)	methylcyclohexane	8.49	83	1831081	18.5660 ug/L	97
51)	12dicloropra	8.52	63	1091795	16.0673 ug/L	99
52)	23Dicl1propene	8.58	75	1703405	17.8806 ug/L	98
53)	Dibromometha	8.67	93	520276	15.9941 ug/L	98
54)	methylmethacrylate	8.68	69	457069	18.5737 ug/L	98
55)	14dioxane	8.70	88	155692	721.1354 ug/L	93
56)	Bromodiclrma	8.87	83	1394765	16.9975 ug/L	99
57)	2Nitropropane	9.15	43	1458653	205.3647 ug/L	94
58)	2CLEVE	9.26	63	1115582	105.0874 ug/L	99
59)	c13dicloproe	9.45	75	1559421	18.4357 ug/L	98
60)	4Meth2Pentan	9.64	43	5688414	143.4172 ug/L	95
62)	Toluene	9.88	92	2574711	16.3192 ug/L	96
63)	t13Dicloprop	10.16	75	1199337	19.6915 ug/L	98
64)	ethylmethacrylate	10.29	69	1916913	36.2710 ug/L	98
65)	112Triclotha	10.40	83	609821	15.0291 ug/L	97
66)	Tetrachlorte	10.61	166	1348289	17.3527 ug/L	98
67)	13Diclorpropa	10.63	76	1218250	15.6970 ug/L	100
69)	2Hexanone	10.74	43	4203969	154.8458 ug/L	98
70)	Clorodibrmta	10.93	129	969027	19.0526 ug/L	98
71)	12Dibrometha	11.08	107	723285	17.1510 ug/L	97
72)	Chlorobenzen	11.76	112	2764118	16.2562 ug/L	100
73)	1Clhexane	11.72	91	1483556	18.3991 ug/L	95
74)	1112Tetclota	11.87	131	1089533	19.2993 ug/L	98
75)	Ethylbenzene	11.91	91	4782924	16.6800 ug/L	98
76)	m p-Xylene	12.07	106	3742531	34.5577 ug/L	90
77)	o-Xylene	12.63	106	1897366	17.9336 ug/L	92
78)	Styrene	12.64	104	2985467	17.8350 ug/L	99
79)	Bromoform	12.90	173	627726	19.2695 ug/L	97
80)	Isopropylben	13.14	105	4460537	17.3878 ug/L	96
81)	cyclohexanone	13.26	55	261895	333.2519 ug/L	99
84)	Bromobenzene	13.57	156	1375027	15.9754 ug/L	98
85)	1122Tetrclta	13.56	83	836392	15.7717 ug/L	100
86)	123Triclproa	13.62	75	801284	16.2057 ug/L	97
87)	14dichloro2butene	13.64	53	188294	18.7901 ug/L	92
88)	n-Propylbenz	13.73	91	5395543	16.6705 ug/L	97
89)	2chlorotolue	13.85	91	3291754	16.5710 ug/L	97
90)	4chlorotolue	14.01	91	3770515	17.1728 ug/L	96
91)	135Trimebenz	13.99	105	4063556	17.0851 ug/L	96
92)	tbutylbenzen	14.46	119	3506173	17.4331 ug/L	99
93)	124Trimetben	14.53	105	4031063	17.2467 ug/L	96
94)	sbutylbenzen	14.78	105	5108904	16.9460 ug/L	96
95)	13Diclorbenz	14.93	146	2393655	17.2212 ug/L	98
96)	pIsopropylto	14.99	119	4329337	17.3944 ug/L	98
97)	14dichlorobe	15.06	146	2382740	17.3967 ug/L	99
98)	12dichlorobe	15.61	146	2190470	16.1115 ug/L	100
99)	nButylbenzen	15.60	91	3875206	17.6007 ug/L	96
100)	12dibromo3cl	16.72	157	168695	20.2336 ug/L	97
101)	135Trichlorobenzene	17.01	180	2033143	18.5510 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW8.D Vial: 12
Acq On : 4 Oct 2016 15:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:20 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:11 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	1665321	19.7267 ug/L	99
103) Hexachlorobu	18.05	225	1053512	17.5491 ug/L	99
104) Naphthalene	18.14	128	2396294	18.1934 ug/L	99
105) 123Trichlben	18.44	180	1462146	17.9245 ug/L	99

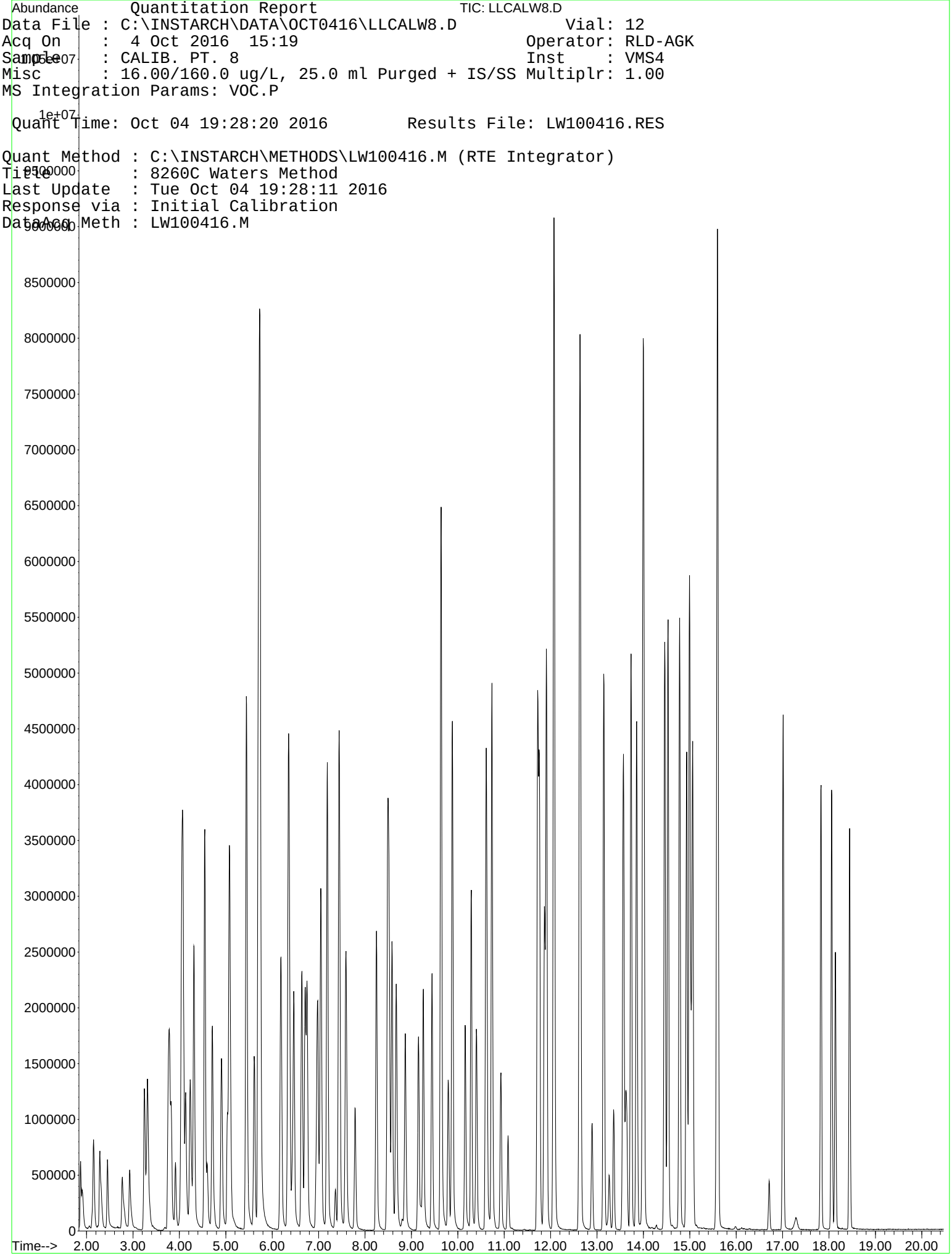
(#) = qualifier out of range (m) = manual integration
LLCALW8.D LW100416.M Mon Oct 10 13:34:55 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\LLCALW8.D Vial: 12
Acq On : 4 Oct 2016 15:19 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 16.00/160.0 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:28:20 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:28:11 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\OCT0416\ICV1.D Vial: 14
Acq On : 4 Oct 2016 16:19 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 04 19:40:03 2016

Quant Method : C:\INSTARCH\METHODS\LW100416.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW100416.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	105	0.00
2	PT	Dichlorodi	0.1862	0.1867	-0.27	107	0.00
3	PT	Chloromethan	0.2599	0.2399	7.70	105	0.00
4	PT	VinylChlorid	0.2354	0.2268	3.65	104	0.00
5	PT	Bromomethane	0.1052	0.1063	-1.05	121	0.00
6	PT	Chloroethane	0.1331	0.1219	8.41	102	0.00
7	T	Dichloroflmethane	0.3870	0.3737	3.44	107	0.00
8	PT	Trichlorofma	0.3096	0.2878	7.04	101	0.00
9	T	Ethylether	0.1374	0.1391	-1.24	103	0.00
10	T	dichlorotfluoroethan	0.2137	0.2175	-1.78	112	0.00
11	T	propyleneoxide	0.0173	0.0171#	1.16	102	0.00
12	T	Acrolein	0.0247	0.0245#	0.81	104	0.00
13	PT	11dichlorthe	0.1815	0.1787	1.54	107	0.00
14	PT	Trichlorotfluoroeth	0.1892	0.1873	1.00	108	0.00
15	PT	Acetone	0.0413	0.0386#	6.54	102	0.00
16	T	Iodomethane	0.1621	0.1766	-8.95	108	0.00
17	PT	Carbon Dislf	0.4441	0.4453	-0.27	108	0.00
18	T	allylchloride	0.2922	0.2984	-2.12	108	0.00
19	PT	methylacetate	0.0314	0.0308#	1.91	106	0.00
20	PT	Methylchlorid	0.3184	0.2250	29.33#	110	0.00
21	T	tbutylalcohol	0.0082	0.0085#	-3.66	107	0.00
22	T	Acrylonitrile	0.0403	0.0392	2.73	99	0.00
23	PT	t12dichlorte	0.1955	0.1871	4.30	103	0.00
24	PT	MtBE	0.4375	0.4424	-1.12	105	0.00
25	T	Hexane	0.2579	0.2627	-1.86	106	0.00
26	PT	11dichlorota	0.3677	0.3528	4.05	106	0.00
27	T	Vinylacetate	0.2438	0.2523	-3.49	97	0.00
28	T	chloroprene	0.3228	0.3268	-1.24	107	0.00
29	T	Diisopether	0.6872	0.6863	0.13	104	0.00
30	T	ETBE	0.5110	0.5328	-4.27	109	0.00
31	T	22dichloropr	0.2459	0.2357	4.15	105	0.00
32	PT	c12dichlorte	0.2301	0.2226	3.26	106	0.00
33	PT	2Butanone	0.0129	0.0129#	0.00	104	0.00
34	T	propionitrile	0.0138	0.0134#	2.90	98	0.00
35	T	Ethylacetate	0.0040	0.0044#	-10.00	104	0.00
36	T	methacrylonitrile	0.0484	0.0508	-4.96	106	0.00
37	T	Bromochlorma	0.0994	0.0929	6.54	102	0.00
38	T	Tetrahydofur	0.0375	0.0348	7.20	100	0.00
39	PT	Chloroform	0.3995	0.3679	7.91	105	0.00
40	PT	111trichlota	0.3123	0.3075	1.54	107	0.00
41	S	SURRDibrflma	0.2580	0.2541	1.51	104	0.00
42	PT	Cyclohexane	0.3226	0.3154	2.23	107	0.00
43	PT	Carbtetraclo	0.2320	0.2354	-1.47	106	0.00
44	T	11dicloprope	0.0974	0.0954	2.05	105	0.00
45	S	SURR12DCAd4	0.0526	0.0512	2.66	104	0.00
46	PT	Benzene	0.8457	0.8152	3.61	105	0.00
47	PT	12dichlorota	0.2494	0.2440	2.17	102	0.00
48	T	TAME	0.4488	0.4609	-2.70	107	0.00

49	PT	trichloroete	0.2093	0.2040	2.53	106	0.00
50	PT	methylcyclohexane	0.3295	0.3370	-2.28	106	0.00
51	PT	12dicloropra	0.2227	0.2082	6.51	103	0.01
52	T	23Dicl1propene	0.3166	0.3202	-1.14	108	0.00
53	T	Dibromometha	0.1065	0.1042	2.16	105	0.00
54	T	methylmethacrylate	0.0849	0.0898	-5.77	106	0.00
55	T	14dioxane	0.0007	0.0006#	14.29	98	0.00
56	PT	Bromodiclrma	0.2709	0.2670	1.44	106	0.00
57	T	2Nitropropane	0.0241	0.0243#	-0.83	102	0.00
58	T	2CLEVE	0.0361	0.0418	-15.79	110	0.00
59	PT	c13dicloproe	0.2823	0.2968	-5.14	107	0.00
60	PT	4Meth2Pentan	0.1282	0.1308	-2.03	103	0.00
61	S	SURRd8Tolule	0.9648	0.9510	1.43	104	0.00
62	PT	Toluene	0.5181	0.4981	3.86	106	0.00
63	PT	t13Dicloprop	0.2052	0.2199	-7.16	107	0.00
64	T	ethylmethacrylate	0.1760	0.1894	-7.61	106	0.00
65	PT	112Triclotha	0.1319	0.1218	7.66	103	0.00
66	PT	Tetrachlorte	0.2572	0.2578	-0.23	107	0.00
67	T	13Diclorpropa	0.2536	0.2473	2.48	103	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	103	0.00
69	PT	2Hexanone	0.1183	0.1244	-5.16	105	0.00
70	PT	Clorodibrmta	0.2278	0.2359	-3.56	105	0.00
71	PT	12Dibrometha	0.1862	0.1865	-0.16	100	0.00
72	PT	Chlorobenzen	0.7454	0.7276	2.39	106	0.00
73	T	1Clhexane	0.3594	0.3544	1.39	108	0.00
74	T	1112Tetclota	0.2534	0.2589	-2.17	103	0.00
75	PT	Ethylbenzene	1.2612	1.2666	-0.43	106	0.00
76	PT	m p-Xylene	0.4786	0.4828	-0.88	106	0.00
77	PT	o-Xylene	0.4699	0.4823	-2.64	107	0.00
78	PT	Styrene	0.7429	0.7720	-3.92	108	0.00
79	PT	Bromoform	0.1462	0.1475	-0.89	108	0.00
80	PT	Isopropylben	1.1345	1.1488	-1.26	106	0.00
81	T	cyclohexanone	0.0035	0.0034#	2.86	98	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	103	0.00
83	S	SURR4BrFBenz	0.8057	0.8412	-4.41	106	0.00
84	T	Bromobenzene	0.6596	0.6380	3.27	104	0.00
85	PT	1122Tetrclta	0.4058	0.4001	1.40	98	0.00
86	T	123Triclproa	0.3796	0.3650	3.85	100	0.00
87	T	14dichloro2butene	0.0778	0.0817	-5.01	107	0.00
88	T	n-Propylbenz	2.4939	2.6269	-5.33	106	0.00
89	T	2chlorotolue	1.5295	1.5496	-1.31	105	0.00
90	T	4chlorotolue	1.6984	1.7481	-2.93	104	0.00
91	T	135Trimebenz	1.8386	1.8968	-3.17	103	0.00
92	T	tbutylbenzen	1.5589	1.5982	-2.52	107	0.00
93	T	124Trimetben	1.8090	1.8797	-3.91	103	0.00
94	T	sbutylbenzen	2.3280	2.4511	-5.29	107	0.00
95	PT	13Diclorbenz	1.0756	1.1109	-3.28	106	0.00
96	T	pIsopropylto	1.9286	2.0174	-4.60	106	0.00
97	PT	14dichlorobe	1.0613	1.0736	-1.16	105	0.00
98	PT	12dichlorobe	1.0431	1.0254	1.70	103	0.00
99	T	nButylbenzen	1.7088	1.7611	-3.06	104	0.00
100	PT	12dibromo3cl	0.0660	0.0790	-19.70	120	0.00
101	T	135Trichlorobenzene	0.8568	0.9354	-9.17	109	0.00
102	PT	124Trichlobe	0.6659	0.7175	-7.75	105	0.00
103	T	Hexachlorobu	0.4657	0.4649	0.17	104	0.00
104	T	Naphthalene	1.0269	1.0977	-6.89	104	0.00
105	T	123Trichlben	0.6347	0.6535	-2.96	106	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW100416.M Mon Oct 10 13:31:07 2016

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\OCT0416\ICV1.D Vial: 14
Acq On : 4 Oct 2016 16:19 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 04 19:40:03 2016

Quant Method : C:\INSTARCH\METHODS\LW100416.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW100416.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	4.0000	4.0000	0.00	105	0.00
2	PT	Dichlorodi	4.0000	4.0115	-0.29	107	0.00
3	PT	Chloromethan	4.0000	3.6922	7.69	105	0.00
4	PT	VinylChlorid	4.0000	3.8538	3.65	104	0.00
5	PT	Bromomethane	4.0000	4.0405	-1.01	121	0.00
6	PT	Chloroethane	4.0000	3.6639	8.40	102	0.00
7	T	Dichloroflmethane	4.0000	3.8624	3.44	107	0.00
8	PT	Trichlorofma	4.0000	3.7184	7.04	101	0.00
9	T	Ethylether	4.0000	4.0466	-1.16	103	0.00
10	T	dichlorotfluoroethan	4.0000	4.0698	-1.74	112	0.00
11	T	propyleneoxide	40.0000	39.3676	1.58	102	0.00
12	T	Acrolein	20.0000	19.8837	0.58	104	0.00
13	PT	11dichlorthe	4.0000	3.9374	1.57	107	0.00
14	PT	Trichlorotfluoroeth	8.0000	7.9167	1.04	108	0.00
15	PT	Acetone	40.0000	37.3702	6.57	102	0.00
16	T	Iodomethane	8.0000	8.0479	-0.60	108	0.00
17	PT	Carbon Dislf	8.0000	8.0203	-0.25	108	0.00
18	T	allylchloride	8.0000	8.1723	-2.15	108	0.00
19	PT	methylacetate	4.0000	3.9278	1.81	106	0.00
20	PT	Methylchlorid	4.0000	4.1572	-3.93	110	0.00
21	T	tbutylalcohol	200.0000	207.1248	-3.56	107	0.00
22	T	Acrylonitrile	20.0000	19.4363	2.82	99	0.00
23	PT	t12dichlorte	4.0000	3.8286	4.29	103	0.00
24	PT	MtBE	4.0000	4.0447	-1.12	105	0.00
25	T	Hexane	8.0000	8.1486	-1.86	106	0.00
26	PT	11dichlorota	4.0000	3.8382	4.04	106	0.00
27	T	Vinylacetate	40.0000	41.4030	-3.51	97	0.00
28	T	chloroprene	8.0000	8.1004	-1.26	107	0.00
29	T	Diisopether	4.0000	3.9943	0.14	104	0.00
30	T	ETBE	4.0000	4.1709	-4.27	109	0.00
31	T	22dichloropr	4.0000	3.8342	4.14	105	0.00
32	PT	c12dichlorte	4.0000	3.8699	3.25	106	0.00
33	PT	2Butanone	40.0000	40.0182	-0.05	104	0.00
34	T	propionitrile	40.0000	38.8142	2.96	98	0.00
35	T	Ethylacetate	20.0000	18.9296	5.35	104	0.00
36	T	methacrylonitrile	8.0000	8.3930	-4.91	106	0.00
37	T	Bromochlorma	4.0000	3.7376	6.56	102	0.00
38	T	Tetrahydofur	40.0000	37.1747	7.06	100	0.00
39	PT	Chloroform	4.0000	3.6832	7.92	105	0.00
40	PT	111trichlota	4.0000	3.9388	1.53	107	0.00
41	S	SURRDibrflma	4.0000	3.9394	1.51	104	0.00
42	PT	Cyclohexane	4.0000	3.9110	2.22	107	0.00
43	PT	Carbtetraclo	4.0000	4.0573	-1.43	106	0.00
44	T	11dicloprope	4.0000	3.9159	2.10	105	0.00
45	S	SURR12DCAd4	4.0000	3.8931	2.67	104	0.00
46	PT	Benzene	4.0000	3.8557	3.61	105	0.00
47	PT	12dichlorota	4.0000	3.9134	2.16	102	0.00
48	T	TAME	4.0000	4.1077	-2.69	107	0.00

49	PT	trichloroete	4.0000	3.8992	2.52	106	0.00
50	PT	methylcyclohexane	4.0000	4.0905	-2.26	106	0.00
51	PT	12dicloropra	4.0000	3.7391	6.52	103	0.01
52	T	23Dicl1propene	4.0000	4.0449	-1.12	108	0.00
53	T	Dibromometha	4.0000	3.9134	2.16	105	0.00
54	T	methylmethacrylate	4.0000	4.2306	-5.76	106	0.00
55	T	14dioxane	200.0000	175.6712	12.16	98	0.00
56	PT	Bromodiclrma	4.0000	3.9434	1.41	106	0.00
57	T	2Nitropropane	40.0000	37.2147	6.96	102	0.00
58	T	2CLEVE	20.0000	20.3222	-1.61	110	0.00
59	PT	c13dicloproe	4.0000	4.2056	-5.14	107	0.00
60	PT	4Meth2Pentan	40.0000	40.8152	-2.04	103	0.00
61	S	SURRd8Tolule	4.0000	3.9429	1.43	104	0.00
62	PT	Toluene	4.0000	3.8459	3.85	106	0.00
63	PT	t13Dicloprop	4.0000	4.2855	-7.14	107	0.00
64	T	ethylmethacrylate	8.0000	8.6103	-7.63	106	0.00
65	PT	112Triclotha	4.0000	3.6951	7.62	103	0.00
66	PT	Tetrachlorte	4.0000	4.0094	-0.24	107	0.00
67	T	13Diclorpropa	4.0000	3.9005	2.49	103	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	103	0.00
69	PT	2Hexanone	40.0000	42.0611	-5.15	105	0.00
70	PT	Clorodibrmta	4.0000	4.1421	-3.55	105	0.00
71	PT	12Dibrometha	4.0000	4.0076	-0.19	100	0.00
72	PT	Chlorobenzen	4.0000	3.9042	2.40	106	0.00
73	T	1Clhexane	4.0000	3.9441	1.40	108	0.00
74	T	1112Tetclota	4.0000	4.0869	-2.17	103	0.00
75	PT	Ethylbenzene	4.0000	4.0172	-0.43	106	0.00
76	PT	m p-Xylene	8.0000	8.0703	-0.88	106	0.00
77	PT	o-Xylene	4.0000	4.1059	-2.65	107	0.00
78	PT	Styrene	4.0000	4.1570	-3.93	108	0.00
79	PT	Bromoform	4.0000	4.0355	-0.89	108	0.00
80	PT	Isopropylben	4.0000	4.0502	-1.26	106	0.00
81	T	cyclohexanone	80.0000	78.8001	1.50	98	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	103	0.00
83	S	SURR4BrFBenz	4.0000	4.1761	-4.40	106	0.00
84	T	Bromobenzene	4.0000	3.8689	3.28	104	0.00
85	PT	1122Tetrclta	4.0000	3.9438	1.41	98	0.00
86	T	123Triclproa	4.0000	3.8459	3.85	100	0.00
87	T	14dichloro2butene	4.0000	4.1961	-4.90	107	0.00
88	T	n-Propylbenz	4.0000	4.2134	-5.34	106	0.00
89	T	2chlorotolue	4.0000	4.0528	-1.32	105	0.00
90	T	4chlorotolue	4.0000	4.1169	-2.92	104	0.00
91	T	135Trimebenz	4.0000	4.1266	-3.16	103	0.00
92	T	tbutylbenzen	4.0000	4.1009	-2.52	107	0.00
93	T	124Trimetben	4.0000	4.1563	-3.91	103	0.00
94	T	sbutylbenzen	4.0000	4.2115	-5.29	107	0.00
95	PT	13Diclorbenz	4.0000	4.1313	-3.28	106	0.00
96	T	pIsopropylto	4.0000	4.1842	-4.60	106	0.00
97	PT	14dichlorobe	4.0000	4.0464	-1.16	105	0.00
98	PT	12dichlorobe	4.0000	3.9322	1.70	103	0.00
99	T	nButylbenzen	4.0000	4.1224	-3.06	104	0.00
100	PT	12dibromo3cl	4.0000	4.3565	-8.91	120	0.00
101	T	135Trichlorobenzene	4.0000	4.3669	-9.17	109	0.00
102	PT	124Trichlobe	4.0000	4.3099	-7.75	105	0.00
103	T	Hexachlorobu	4.0000	3.9932	0.17	104	0.00
104	T	Naphthalene	4.0000	4.2757	-6.89	104	0.00
105	T	123Trichlben	4.0000	4.1184	-2.96	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW100416.M Mon Oct 10 13:31:29 2016

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV1.D Vial: 14
Acq On : 4 Oct 2016 16:19 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:40:03 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:38:59 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.79	96	1166776	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	875121	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.03	152	478378	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	296518	3.939 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 98 %	
45) SURR12DCAd4	7.36	102	59787	3.893 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 97 %	
61) SURRd8Tolule	9.80	98	1109600	3.943 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 99 %	
83) SURR4BrFBenz	13.36	95	402407	4.176 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 104 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	217833	4.0115 ug/L	96
3) Chloromethan	2.16	50	279858	3.6922 ug/L	100
4) VinylChlorid	2.28	62	264670	3.8538 ug/L	98
5) Bromomethane	2.77	94	123987	4.0405 ug/L	99
6) Chloroethane	2.93	64	142206	3.6639 ug/L	98
7) Dichloroflmethane	3.25	67	435975	3.8624 ug/L	94
8) Trichlorofma	3.31	101	335819	3.7184 ug/L	98
9) Ethylether	3.76	59	162242	4.0466 ug/L	98
10) dichlorotfluoroethan	3.78	67	253723	4.0698 ug/L	95
11) propyleneoxide	3.83	58	198983	39.3676 ug/L	96
12) Acrolein	3.92	56	143029	19.8837 ug/L	97
13) 11dichlorthe	4.04	96	208479	3.9374 ug/L	94
14) Trichlorotfluoroeth	4.07	101	437012	7.9167 ug/L	99
15) Acetone	4.14	43	450271	37.3702 ug/L	100
16) Iodomethane	4.23	142	412047	8.0479 ug/L	100
17) Carbon Dislf	4.31	76	1039060	8.0203 ug/L	100
18) allylchloride	4.54	41	696443	8.1723 ug/L	99
19) methylacetate	4.60	74	35937	3.9278 ug/L	98
20) Methylchlorid	4.71	84	262535	4.1572 ug/L	97
21) tbutylalcohol	4.91	59	495052	207.1248 ug/L	99
22) Acrylonitrile	5.03	53	228666	19.4363 ug/L	96
23) t12dichlorte	5.08	96	218279	3.8286 ug/L	99
24) MtBE	5.09	73	516192	4.0447 ug/L	99
25) Hexane	5.44	57	612947	8.1486 ug/L	99
26) 11dichlorota	5.61	63	411680	3.8382 ug/L	100
27) Vinylacetate	5.70	43	2944047	41.4030 ug/L	99
28) chloroprene	5.73	53	762620	8.1004 ug/L	99
29) Diisopether	5.73	45	800732	3.9943 ug/L	99
30) ETBE	6.19	59	621642	4.1709 ug/L	99
31) 22dichloropr	6.35	77	275049	3.8342 ug/L	98
32) c12dichlorte	6.35	96	259746	3.8699 ug/L	97
33) 2Butanone	6.37	72	150887	40.0182 ug/L	99
34) propionitrile	6.44	54	156222	38.8142 ug/L	97
35) Ethylacetate	6.48	88	25438	18.9296 ug/L	99
36) methacrylonitrile	6.63	67	118513	8.3930 ug/L	94
37) Bromochlorma	6.65	128	108375	3.7376 ug/L	100
38) Tetrahydofur	6.71	42	406133	37.1747 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV1.D Vial: 14
Acq On : 4 Oct 2016 16:19 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:40:03 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:38:59 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.75	83	429199	3.6832 ug/L	99
40) 111trichlota	6.98	97	358766	3.9388 ug/L	98
42) Cyclohexane	7.05	56	368047	3.9110 ug/L	100
43) Carbtetraclo	7.19	119	274623	4.0573 ug/L	96
44) 11dicloprope	7.19	110	111288	3.9159 ug/L	98
46) Benzene	7.44	78	951137	3.8557 ug/L	99
47) 12dichlorota	7.46	62	284734	3.9134 ug/L	98
48) TAME	7.59	73	537740	4.1077 ug/L	99
49) trichloroete	8.25	95	238014	3.8992 ug/L	99
50) methylcyclohexane	8.49	83	393170	4.0905 ug/L	98
51) 12dicloropra	8.53	63	242879	3.7391 ug/L	98
52) 23Dicl1propene	8.58	75	373568	4.0449 ug/L	100
53) Dibromometha	8.67	93	121619	3.9134 ug/L	98
54) methylmethacrylate	8.68	69	104732	4.2306 ug/L	98
55) 14dioxane	8.70	88	33707	175.6712 ug/L	99
56) Bromodiclrma	8.87	83	311571	3.9434 ug/L	97
57) 2Nitropropane	9.15	43	283507	37.2147 ug/L	98
58) 2CLEVE	9.26	63	243763	20.3222 ug/L	99
59) c13dicloproe	9.44	75	346346	4.2056 ug/L	99
60) 4Meth2Pentan	9.64	43	1526665	40.8152 ug/L	99
62) Toluene	9.88	92	581173	3.8459 ug/L	100
63) t13Dicloprop	10.16	75	256572	4.2855 ug/L	99
64) ethylmethacrylate	10.29	69	442020	8.6103 ug/L	99
65) 112Triclotha	10.40	83	142163	3.6951 ug/L	98
66) Tetrachlorte	10.61	166	300784	4.0094 ug/L	98
67) 13Diclorpropa	10.63	76	288541	3.9005 ug/L	100
69) 2Hexanone	10.74	43	1088648	42.0611 ug/L	99
70) Clorodibrmta	10.93	129	206458	4.1421 ug/L	98
71) 12Dibrometha	11.08	107	163226	4.0076 ug/L	97
72) Chlorobenzen	11.76	112	636698	3.9042 ug/L	98
73) 1Clhexane	11.72	91	310113	3.9441 ug/L	98
74) 1112Tetclota	11.87	131	226539	4.0869 ug/L	97
75) Ethylbenzene	11.91	91	1108464	4.0172 ug/L	99
76) m p-Xylene	12.07	106	844941	8.0703 ug/L	100
77) o-Xylene	12.63	106	422085	4.1059 ug/L	94
78) Styrene	12.64	104	675620	4.1570 ug/L	99
79) Bromoform	12.89	173	129049	4.0355 ug/L	96
80) Isopropylben	13.14	105	1005314	4.0502 ug/L	99
81) cyclohexanone	13.27	55	59583	78.8001 ug/L	96
84) Bromobenzene	13.58	156	305215	3.8689 ug/L	99
85) 1122Tetrclta	13.56	83	191384	3.9438 ug/L	99
86) 123Triclproa	13.62	75	174602	3.8459 ug/L	98
87) 14dichloro2butene	13.64	53	39066	4.1961 ug/L	95
88) n-Propylbenz	13.73	91	1256674	4.2134 ug/L	99
89) 2chlorotolue	13.86	91	741310	4.0528 ug/L	100
90) 4chlorotolue	14.01	91	836238	4.1169 ug/L	98
91) 135Trimebenz	13.99	105	907378	4.1266 ug/L	99
92) tbutylbenzen	14.46	119	764551	4.1009 ug/L	99
93) 124Trimetben	14.53	105	899228	4.1563 ug/L	99
94) sbutylbenzen	14.78	105	1172567	4.2115 ug/L	99
95) 13Diclorbenz	14.93	146	531430	4.1313 ug/L	99
96) pIsopropylto	14.99	119	965096	4.1842 ug/L	98
97) 14dichlorobe	15.06	146	513598	4.0464 ug/L	98
98) 12dichlorobe	15.60	146	490510	3.9322 ug/L	100
99) nButylbenzen	15.59	91	842455	4.1224 ug/L	100
100) 12dibromo3cl	16.71	157	37803	4.3565 ug/L	89
101) 135Trichlorobenzene	17.01	180	447489	4.3669 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV1.D Vial: 14
Acq On : 4 Oct 2016 16:19 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:40:03 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:38:59 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	343254	4.3099 ug/L	98
103) Hexachlorobu	18.06	225	222416	3.9932 ug/L	97
104) Naphthalene	18.14	128	525115	4.2757 ug/L	99
105) 123Trichlben	18.44	180	312602	4.1184 ug/L	99

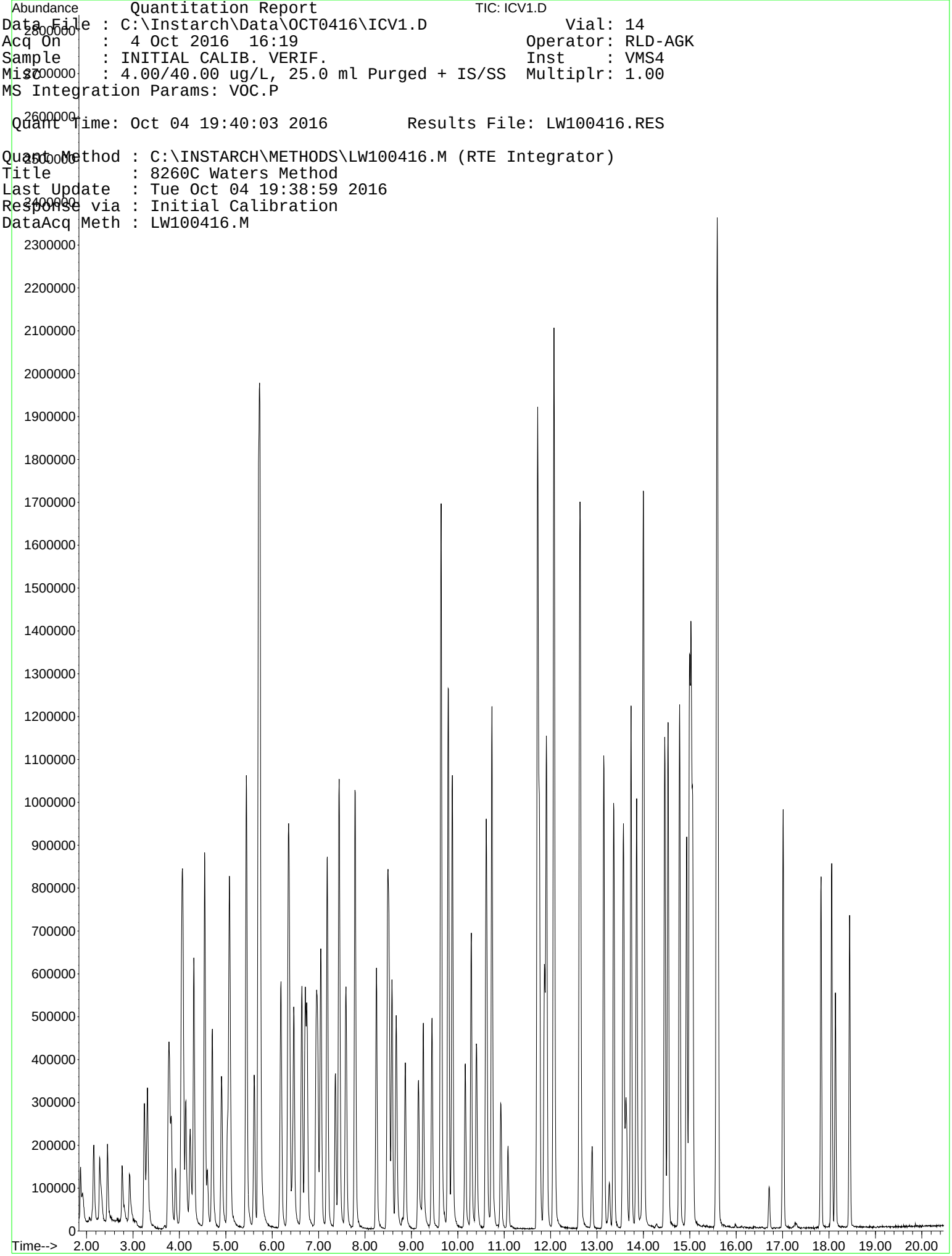
(#) = qualifier out of range (m) = manual integration
ICV1.D LW100416.M Mon Oct 10 13:29:55 2016

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV1.D Vial: 14
Acq On : 4 Oct 2016 16:19 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:40:03 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:38:59 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\OCT0416\ICV2.D Vial: 15
Acq On : 4 Oct 2016 16:49 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 04 19:41:04 2016

Quant Method : C:\INSTARCH\METHODS\LW100416.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW100416.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	4.0000	4.0000	0.00	103	0.00
2	PT	Dichlorodi	8.0000	8.5655	-7.07	112	0.00
3	PT	Chloromethan	8.0000	7.7093	3.63	115	0.00
4	PT	VinylChlorid	8.0000	8.1698	-2.12	112	0.00
5	PT	Bromomethane	8.0000	8.3420	-4.28	127	0.00
6	PT	Chloroethane	8.0000	7.8583	1.77	113	0.00
7	T	Dichloroflmethane	8.0000	8.0433	-0.54	114	0.00
8	PT	Trichlorofma	8.0000	8.4518	-5.65	118	0.00
9	T	Ethylether	8.0000	8.0682	-0.85	105	0.00
10	T	dichlorotfluoroethan	8.0000	8.5969	-7.46	118	0.00
11	T	propyleneoxide	80.0000	73.9260	7.59	95	0.00
12	T	Acrolein	40.0000	38.0164	4.96	97	0.00
13	PT	11dichlorthe	8.0000	8.3793	-4.74	113	0.00
14	PT	Trichlorotfluoroeth	16.0000	17.1380	-7.11	116	0.00
15	PT	Acetone	80.0000	67.0017	16.25	93	0.00
16	T	Iodomethane	16.0000	17.9117	-11.95	119	0.00
17	PT	Carbon Dislf	16.0000	16.7084	-4.43	116	0.00
18	T	allylchloride	16.0000	17.2267	-7.67	117	0.00
19	PT	methylacetate	8.0000	7.1974	10.03	90	0.00
20	PT	Methylchlorid	8.0000	8.1460	-1.83	109	0.00
21	T	tbutylalcohol	400.0000	378.8281	5.29	86	0.00
22	T	Acrylonitrile	40.0000	37.2081	6.98	96	0.00
23	PT	t12dichlorte	8.0000	8.1840	-2.30	114	0.00
24	PT	MtBE	8.0000	8.0437	-0.55	103	0.00
25	T	Hexane	16.0000	17.9151	-11.97	114	0.00
26	PT	11dichlorota	8.0000	8.0881	-1.10	114	0.00
27	T	Vinylacetate	80.0000	81.6730	-2.09	99	0.00
28	T	chloroprene	16.0000	17.1022	-6.89	115	0.00
29	T	Diisopether	8.0000	8.2658	-3.32	112	0.00
30	T	ETBE	8.0000	8.5038	-6.30	110	0.00
31	T	22dichloropr	8.0000	8.4593	-5.74	111	0.00
32	PT	c12dichlorte	8.0000	8.0580	-0.72	110	0.00
33	PT	2Butanone	80.0000	76.1886	4.76	96	0.00
34	T	propionitrile	80.0000	73.8895	7.64	94	0.00
35	T	Ethylacetate	40.0000	39.6811	0.80	102	0.00
36	T	methacrylonitrile	16.0000	15.9452	0.34	99	0.00
37	T	Bromochlorma	8.0000	7.4475	6.91	105	0.00
38	T	Tetrahydofur	80.0000	68.8484	13.94	93	0.00
39	PT	Chloroform	8.0000	7.7438	3.20	114	0.00
40	PT	111trichlota	8.0000	8.6248	-7.81	113	0.00
41	S	SURRDibrflma	4.0000	3.8655	3.36	101	0.00
42	PT	Cyclohexane	8.0000	8.7101	-8.88	114	0.00
43	PT	Carbtetraclo	8.0000	9.2049	-15.06	113	0.00
44	T	11dicloprope	8.0000	8.3004	-3.75	112	0.00
45	S	SURR12DCAd4	4.0000	3.6157	9.61	94	0.00
46	PT	Benzene	8.0000	8.1045	-1.31	113	0.00
47	PT	12dichlorota	8.0000	7.7174	3.53	104	0.00
48	T	TAME	8.0000	8.5729	-7.16	107	0.00

49	PT	trichloroete	8.0000	8.2590	-3.24	115	0.00
50	PT	methylcyclohexane	8.0000	9.1067	-13.83	117	0.00
51	PT	12dicloropra	8.0000	7.8918	1.35	110	0.00
52	T	23Dicl1propene	8.0000	8.4053	-5.07	111	0.00
53	T	Dibromometha	8.0000	7.8028	2.46	104	0.00
54	T	methylmethacrylate	8.0000	8.4539	-5.67	103	0.00
55	T	14dioxane	400.0000	282.2144	29.45#	70	0.00
56	PT	Bromodiclrma	8.0000	8.1118	-1.40	108	0.00
57	T	2Nitropropane	80.0000	74.6912	6.64	94	0.00
58	T	2CLEVE	40.0000	39.3432	1.64	99	0.00
59	PT	c13dicloproe	8.0000	8.5873	-7.34	105	0.00
60	PT	4Meth2Pentan	80.0000	76.7041	4.12	99	0.00
61	S	SURRd8Tolule	4.0000	3.9011	2.47	102	0.00
62	PT	Toluene	8.0000	8.1585	-1.98	114	0.00
63	PT	t13Dicloprop	8.0000	8.8881	-11.10	105	0.00
64	T	ethylmethacrylate	16.0000	17.6531	-10.33	105	0.00
65	PT	112Triclotha	8.0000	7.3683	7.90	100	0.00
66	PT	Tetrachlorte	8.0000	8.5873	-7.34	114	0.00
67	T	13Diclorpropa	8.0000	7.6809	3.99	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	104	0.00
69	PT	2Hexanone	80.0000	78.1267	2.34	98	0.00
70	PT	Clorodibrmta	8.0000	8.6784	-8.48	106	0.00
71	PT	12Dibrometha	8.0000	8.0175	-0.22	100	0.00
72	PT	Chlorobenzen	8.0000	8.0133	-0.17	111	0.00
73	T	1Clhexane	8.0000	8.8451	-10.56	115	0.00
74	T	1112Tetclota	8.0000	8.8594	-10.74	111	0.00
75	PT	Ethylbenzene	8.0000	8.3342	-4.18	111	0.00
76	PT	m p-Xylene	16.0000	16.9427	-5.89	111	0.00
77	PT	o-Xylene	8.0000	8.6092	-7.61	112	0.00
78	PT	Styrene	8.0000	8.6713	-8.39	109	0.00
79	PT	Bromoform	8.0000	8.4850	-6.06	102	0.00
80	PT	Isopropylben	8.0000	8.6482	-8.10	112	0.00
81	T	cyclohexanone	160.0000	129.0509	19.34	76	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	101	0.00
83	S	SURR4BrFBenz	4.0000	4.0366	-0.91	102	0.00
84	T	Bromobenzene	8.0000	7.8784	1.52	107	0.00
85	PT	1122Tetrclta	8.0000	7.8026	2.47	102	0.00
86	T	123Triclproa	8.0000	7.6207	4.74	99	0.00
87	T	14dichloro2butene	8.0000	8.8311	-10.39	103	0.00
88	T	n-Propylbenz	8.0000	8.7006	-8.76	112	0.00
89	T	2chlorotolue	8.0000	8.4845	-6.06	113	0.00
90	T	4chlorotolue	8.0000	8.6222	-7.78	111	0.00
91	T	135Trimebenz	8.0000	8.6385	-7.98	111	0.00
92	T	tbutylbenzen	8.0000	8.7575	-9.47	113	0.00
93	T	124Trimetben	8.0000	8.7213	-9.02	111	0.00
94	T	sbutylbenzen	8.0000	8.7794	-9.74	111	0.00
95	PT	13Diclorbenz	8.0000	8.6223	-7.78	111	0.00
96	T	pIsopropylto	8.0000	8.8951	-11.19	111	0.00
97	PT	14dichlorobe	8.0000	8.4648	-5.81	110	0.00
98	PT	12dichlorobe	8.0000	8.1139	-1.42	107	0.00
99	T	nButylbenzen	8.0000	8.7642	-9.55	107	0.00
100	PT	12dibromo3cl	8.0000	8.1724	-2.15	103	0.00
101	T	135Trichlorobenzene	8.0000	8.9778	-12.22	110	0.00
102	PT	124Trichlobe	8.0000	9.3662	-17.08	110	0.00
103	T	Hexachlorobu	8.0000	8.4791	-5.99	103	0.00
104	T	Naphthalene	8.0000	8.8290	-10.36	103	0.00
105	T	123Trichlben	8.0000	8.6096	-7.62	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW100416.M Mon Oct 10 13:32:04 2016

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV2.D Vial: 15
Acq On : 4 Oct 2016 16:49 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:41:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1206551	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.72	117	909406	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	505583	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	300878	3.866 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 97 %	
45) SURR12DCAd4	7.36	102	57420	3.616 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 90 %	
61) SURRd8Tolule	9.79	98	1135243	3.901 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 98 %	
83) SURR4BrFBenz	13.36	95	411081	4.037 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 101 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	480976	8.5655 ug/L	99
3) Chloromethan	2.15	50	604266	7.7093 ug/L	98
4) VinylChlorid	2.29	62	580211	8.1698 ug/L	99
5) Bromomethane	2.77	94	264707	8.3420 ug/L	98
6) Chloroethane	2.93	64	315403	7.8583 ug/L	100
7) Dichloroflmethane	3.25	67	938852	8.0433 ug/L	99
8) Trichlorofma	3.31	101	789325	8.4518 ug/L	98
9) Ethylether	3.76	59	334509	8.0682 ug/L	97
10) dichlorotfluoroethan	3.79	67	554234	8.5969 ug/L	97
11) propyleneoxide	3.82	58	386396	73.9260 ug/L	96
12) Acrolein	3.92	56	282785	38.0164 ug/L	98
13) 11dichlorthe	4.04	96	458796	8.3793 ug/L	97
14) Trichlorotfluoroeth	4.07	101	978291	17.1380 ug/L	99
15) Acetone	4.13	43	834820	67.0017 ug/L	98
16) Iodomethane	4.23	142	1116791	17.9117 ug/L	98
17) Carbon Dislf	4.31	76	2238438	16.7084 ug/L	100
18) allylchloride	4.55	41	1518105	17.2267 ug/L	99
19) methylacetate	4.60	74	68097	7.1974 ug/L	99
20) Methylchlorid	4.71	84	512444	8.1460 ug/L	97
21) tbutylalcohol	4.91	59	936309	378.8281 ug/L	99
22) Acrylonitrile	5.04	53	452672	37.2081 ug/L	98
23) t12dichlorte	5.07	96	482496	8.1840 ug/L	97
24) MtBE	5.09	73	1061544	8.0437 ug/L	98
25) Hexane	5.44	57	1393541	17.9151 ug/L	99
26) 11dichlorota	5.61	63	897104	8.0881 ug/L	100
27) Vinylacetate	5.70	43	6005505	81.6730 ug/L	99
28) chloroprene	5.73	53	1664997	17.1022 ug/L	99
29) Diisopether	5.73	45	1713510	8.2658 ug/L	100
30) ETBE	6.18	59	1310635	8.5038 ug/L	99
31) 22dichloropr	6.34	77	627523	8.4593 ug/L	99
32) c12dichlorte	6.36	96	559285	8.0580 ug/L	98
33) 2Butanone	6.37	72	297059	76.1886 ug/L	96
34) propionitrile	6.44	54	307534	73.8895 ug/L	99
35) Ethylacetate	6.47	88	55247	39.6811 ug/L #	83
36) methacrylonitrile	6.63	67	232829	15.9452 ug/L	98
37) Bromochlorma	6.65	128	223312	7.4475 ug/L	99
38) Tetrahydofur	6.71	42	777809	68.8484 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV2.D Vial: 15
Acq On : 4 Oct 2016 16:49 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:41:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.75	83	933147	7.7438	ug/L	99
40)	111trichlota	6.98	97	812370	8.6248	ug/L	97
42)	Cyclohexane	7.05	56	847607	8.7101	ug/L	99
43)	Carbtetraclo	7.19	119	644291	9.2049	ug/L	98
44)	11dicloprope	7.18	110	243937	8.3004	ug/L	98
46)	Benzene	7.44	78	2067411	8.1045	ug/L	100
47)	12dichlorota	7.46	62	580650	7.7174	ug/L	99
48)	TAME	7.59	73	1160538	8.5729	ug/L	98
49)	trichloroete	8.25	95	521332	8.2590	ug/L	99
50)	methylcyclohexane	8.49	83	905150	9.1067	ug/L	98
51)	12dicloropra	8.52	63	530100	7.8918	ug/L	100
52)	23Dicl1propene	8.58	75	802746	8.4053	ug/L	99
53)	Dibromometha	8.67	93	250759	7.8028	ug/L	97
54)	methylmethacrylate	8.68	69	216416	8.4539	ug/L	98
55)	14dioxane	8.70	88	55996	282.2144	ug/L	95
56)	Bromodiclrma	8.87	83	662761	8.1118	ug/L	99
57)	2Nitropropane	9.15	43	623881	74.6912	ug/L	98
58)	2CLEVE	9.26	63	512065	39.3432	ug/L	98
59)	c13dicloproe	9.44	75	731310	8.5873	ug/L	99
60)	4Meth2Pentan	9.64	43	2966867	76.7041	ug/L	99
62)	Toluene	9.88	92	1274894	8.1585	ug/L	98
63)	t13Dicloprop	10.16	75	550268	8.8881	ug/L	99
64)	ethylmethacrylate	10.29	69	937138	17.6531	ug/L	99
65)	112Triclotha	10.40	83	293146	7.3683	ug/L	97
66)	Tetrachlorte	10.61	166	666176	8.5873	ug/L	99
67)	13Diclorpropa	10.63	76	587563	7.6809	ug/L	99
69)	2Hexanone	10.74	43	2101339	78.1267	ug/L	99
70)	Clorodibrmta	10.92	129	449518	8.6784	ug/L	99
71)	12Dibrometha	11.08	107	339339	8.0175	ug/L	97
72)	Chlorobenzen	11.76	112	1358024	8.0133	ug/L	99
73)	1Clhexane	11.73	91	722708	8.8451	ug/L	96
74)	1112Tetclota	11.87	131	510319	8.8594	ug/L	99
75)	Ethylbenzene	11.91	91	2389730	8.3342	ug/L	100
76)	m p-Xylene	12.07	106	1843355	16.9427	ug/L	98
77)	o-Xylene	12.63	106	919704	8.6092	ug/L	96
78)	Styrene	12.64	104	1464506	8.6713	ug/L	100
79)	Bromoform	12.89	173	281966	8.4850	ug/L	97
80)	Isopropylben	13.14	105	2230695	8.6482	ug/L	99
81)	cyclohexanone	13.27	55	101402	129.0509	ug/L	96
84)	Bromobenzene	13.57	156	656857	7.8784	ug/L	99
85)	1122Tetrclta	13.56	83	400179	7.8026	ug/L	100
86)	123Triclproa	13.62	75	365651	7.6207	ug/L	100
87)	14dichloro2butene	13.65	53	86894	8.8311	ug/L	96
88)	n-Propylbenz	13.73	91	2742603	8.7006	ug/L	100
89)	2chlorotolue	13.86	91	1640204	8.4845	ug/L	99
90)	4chlorotolue	14.01	91	1850970	8.6222	ug/L	98
91)	135Trimebenz	13.99	105	2007480	8.6385	ug/L	98
92)	tbutylbenzen	14.46	119	1725569	8.7575	ug/L	99
93)	124Trimetben	14.53	105	1994168	8.7213	ug/L	98
94)	sbutylbenzen	14.78	105	2583345	8.7794	ug/L	97
95)	13Diclorbenz	14.93	146	1172201	8.6223	ug/L	99
96)	pIsopropylto	14.99	119	2168343	8.8951	ug/L	99
97)	14dichlorobe	15.06	146	1135524	8.4648	ug/L	99
98)	12dichlorobe	15.60	146	1069720	8.1139	ug/L	100
99)	nButylbenzen	15.59	91	1892911	8.7642	ug/L	99
100)	12dibromo3cl	16.71	157	78216	8.1724	ug/L	97
101)	135Trichlorobenzene	17.01	180	972296	8.9778	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV2.D Vial: 15
Acq On : 4 Oct 2016 16:49 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:41:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	788373	9.3662 ug/L	99
103) Hexachlorobu	18.06	225	499134	8.4791 ug/L	98
104) Naphthalene	18.14	128	1145974	8.8290 ug/L	99
105) 123Trichlben	18.44	180	690667	8.6096 ug/L	98

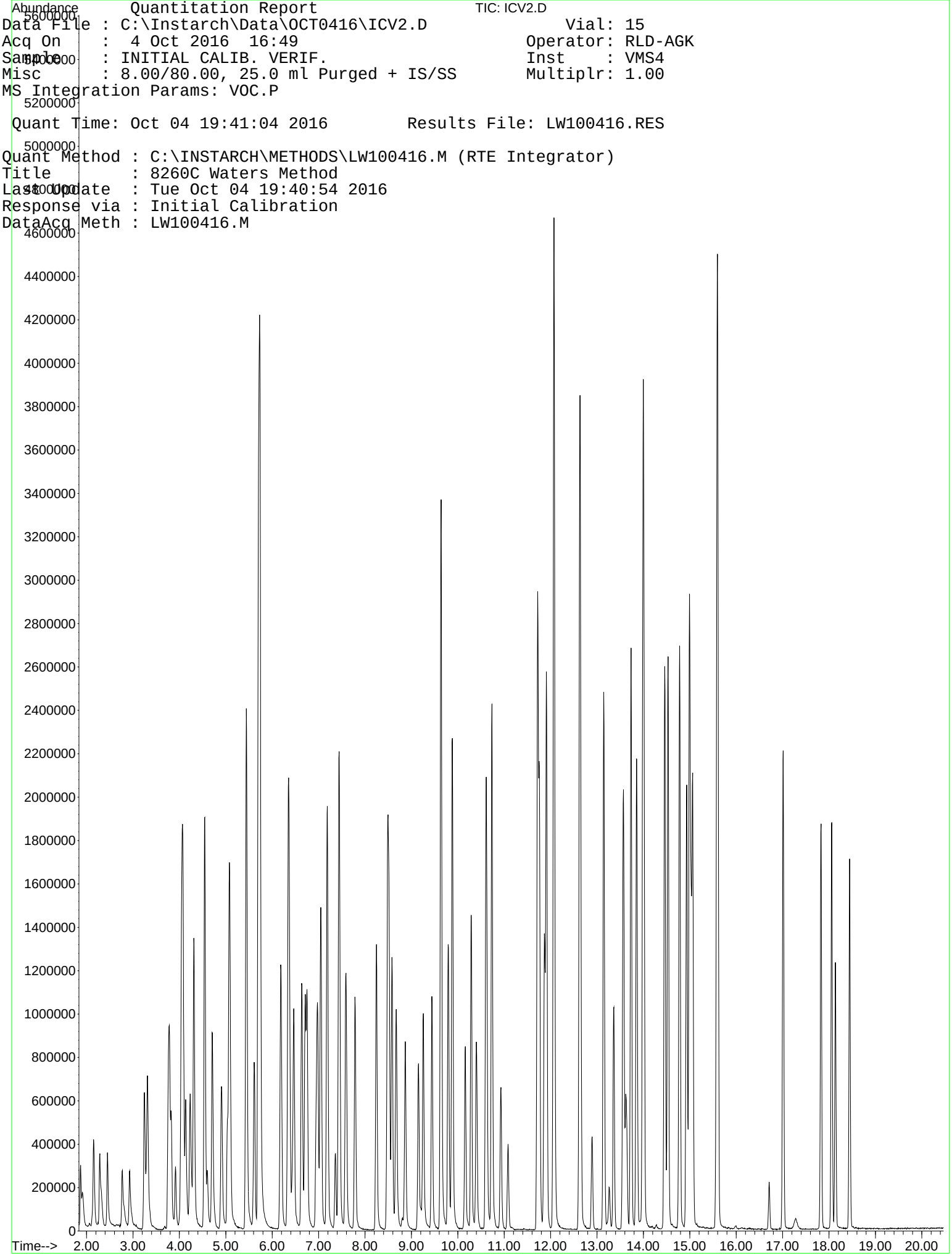
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT0416\ICV2.D Vial: 15
Acq On : 4 Oct 2016 16:49 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 8.00/80.00, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 19:41:04 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\ICB1.D Vial: 21
Acq On : 4 Oct 2016 19:48 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 20:16:11 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1107496	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	850507	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	444137	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	281211	3.936 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %		
45) SURR12DCAd4	7.36	102	55050	3.777 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery = 94 %		
61) SURRd8Tolule	9.79	98	1049033	3.927 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery = 98 %		
83) SURR4BrFBenz	13.36	95	365243	4.083 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery = 102 %		

Target Compounds

					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.14	50	3030	0.0421 ug/L #	43
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	0.00	94	0	N.D.	
6) Chloroethane	2.93	64	1702	N.D.	
7) Dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.15	43	14534	1.2708 ug/L	96
16) Iodomethane	4.24	142	2236	0.4633 ug/L #	42
17) Carbon Dislf	4.32	76	3346	N.D.	
18) allylchloride	0.00	41	0	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.71	84	5948	Below Cal	95
21) tbutylalcohol	4.90	59	1934	N.D.	
22) Acrylonitrile	0.00	53	0	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	0.00	72	0	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.73	42	3505	0.3380 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\ICB1.D Vial: 21
Acq On : 4 Oct 2016 19:48 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 20:16:11 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	4565	0.0413 ug/L	90
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.44	78	1468	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	0.00	43	0	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	0.00	43	0	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.71	91	1670	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	0.00	55	0	N.D.	
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	0.00	91	0	N.D.	
89)	2chlorotolue	0.00	91	0	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	0.00	105	0	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.57	91	2655	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\ICB1.D Vial: 21
Acq On : 4 Oct 2016 19:48 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 20:16:11 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	1534	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.14	128	2169	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

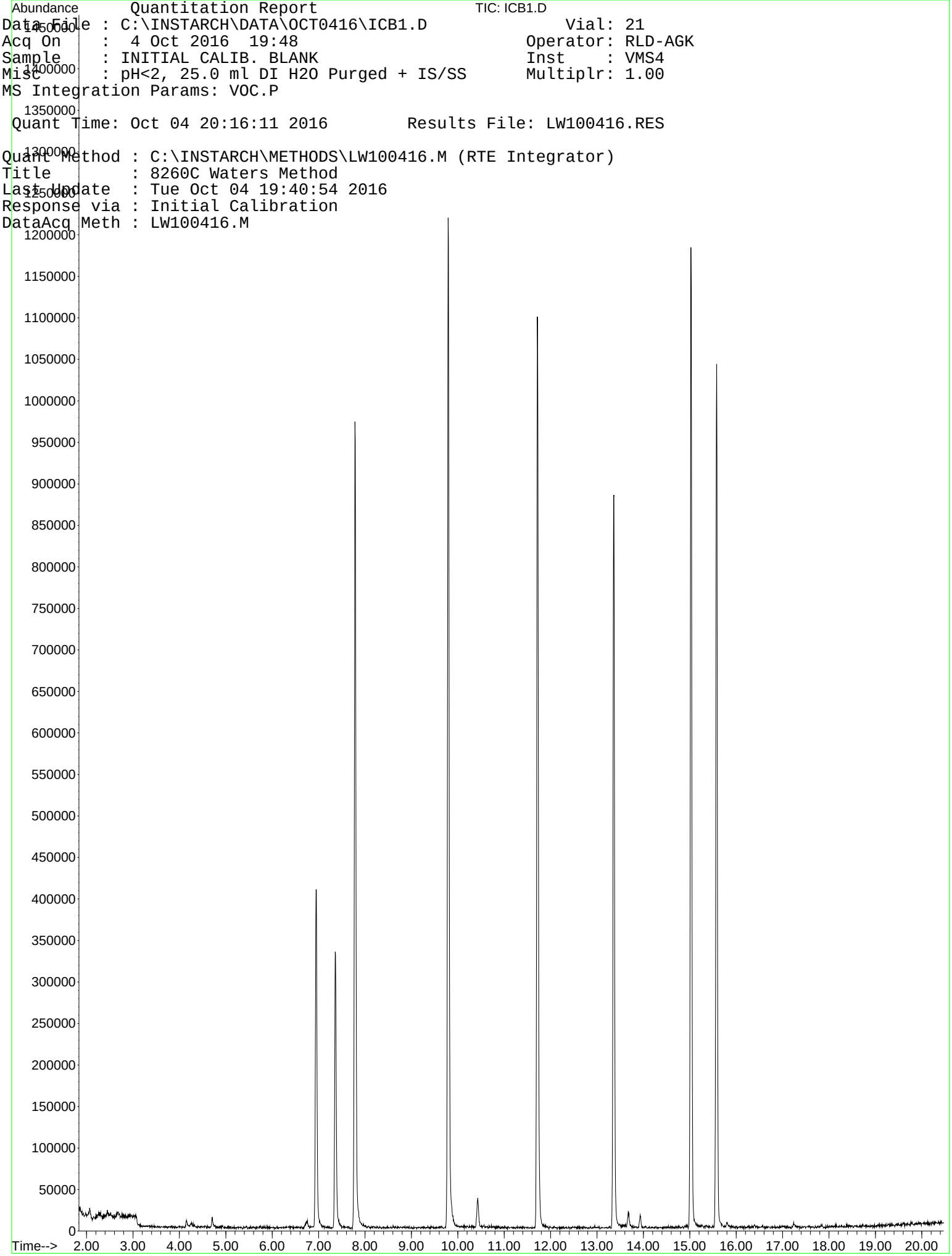
(#) = qualifier out of range (m) = manual integration
ICB1.D LW100416.M Mon Oct 10 13:45:10 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416\ICB1.D Vial: 21
Acq On : 4 Oct 2016 19:48 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : pH<2, 25.0 ml DI H2O Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 04 20:16:11 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Tue Oct 04 19:40:54 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



Response Factor Report VMS3

Method Path : C:\INSTARCH\METHODS\
Method File : W100516.M
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response Via : Initial Calibration

RJ 10/19/2016

Calibration Files ug/L
1 0.50/5.0 =WCAL1.D 2 2.0/20.0 =WCAL2.D 3 5.0/50.0 =WCAL3.D
4 10.0/100 =WCAL4.D 5 20.0/200 =WCAL5.D 6 30.0/300 =WCAL6.D
7 40.0/400 =WCAL7.D 8 80.0/800 =WCAL8.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
			8								
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------								
2)	PT	Dichlorodi	0.298	0.233	0.246	0.242	0.226	0.224	0.221	0.237	11.87
			0.203								
3)	PT	Chloromethan	0.958	0.611	0.593	0.567	0.530	0.484	0.531	-----	
			0.449								
								Q	A= -0.027 R=0.998		
									B= 0.555		
									C= 0.007		
4)	PT	VinylChlorid	0.481	0.394	0.418	0.409	0.384	0.373	0.432	0.403	10.70
			0.336								
5)	PT	Bromomethane	0.129	0.116	0.129	0.097	0.099	0.098	0.108	0.109	13.13
			0.094								
6)	PT	Chloroethane	0.264	0.260	0.262	0.246	0.248	0.237	0.251	0.250	4.52
			0.234								
7)	T	Dichloroflmetha	0.505	0.521	0.509	0.487	0.468	0.453	0.586	0.494	10.05
			0.421								
8)	PT	Trichlorofma	0.414	0.372	0.369	0.367	0.354	0.339	0.440	0.372	10.22
			0.323								
9)	T	Ethylether	0.256	0.270	0.276	0.259	0.254	0.251	0.337	0.268	10.94
			0.245								
10)	T	dichlorotfluoro	0.318	0.287	0.302	0.289	0.286	0.271	0.346	0.295	9.30
			0.259								
11)	T	propyleneoxide	0.102	0.087	0.084	0.076	0.076	0.069	0.086	0.081	14.29
			0.066								
12)	T	Acrolein	0.125	0.135	0.134	0.120	0.120	0.113	0.163	0.127	13.55
			0.108								
13)	PT	11dichlorthe	0.311	0.265	0.273	0.252	0.232	0.235	0.268	0.257	10.86
			0.224								
14)	PT	Trichlorotfluor	0.289	0.218	0.244	0.240	0.224	0.219	0.251	0.236	11.23
			0.203								
15)	PT	Acetone	0.211	0.228	0.248	0.218	0.205	0.187	0.190	0.212	10.10
16)	T	Iodomethane	0.328	0.200	0.182	0.163	0.157	0.160	0.184	-----	
			0.155								
								Q	A= -0.003 R=0.995		
									B= 0.184		
									C= -0.006		
17)	PT	Carbon Dislf	0.779	0.702	0.714	0.678	0.633	0.597	0.666	0.656	13.50
			0.483								
18)	T	allylchloride	0.427	0.435	0.412	0.403	0.359	0.325	0.374	-----	
			0.262								
								Q	A= -0.020 R=0.992		
									B= 0.425		
									C= -0.009		
19)	PT	methylacetate	0.133	0.152	0.168	0.158	0.161	0.158	0.187	0.159	9.47
			0.158								
20)	PT	Methylchlorid	0.457	0.301	0.295	0.278	0.277	0.269	0.260	-----	
			0.255								
								Q	A= -0.004 R=1.000		
									B= 0.268		
									C= 0.006		
21)	T	tbutylalcohol	0.157	0.105	0.109	0.081	0.074	0.066	0.059	-----	

```
                        0.042
                                                        Q  A= -0.000 R=0.998
                                                           B=  0.075
                                                           C=  0.251
22) T   Acrylonitrile   0.254 0.199 0.206 0.186 0.187 0.174 0.187 0.193  14.82
                        0.156
23) PT  t12dichlorte    0.367 0.284 0.283 0.254 0.261 0.259 0.248 0.274  14.81
                        0.237
24) PT  MtBE            0.973 0.864 0.852 0.755 0.777 0.748 0.738 0.797  11.88
                        0.670
25) T   Hexane          0.550 0.405 0.456 0.434 0.423 0.404 0.380 0.426  13.94
                        0.353
26) PT  11dichlorota    0.710 0.570 0.547 0.501 0.506 0.500 0.490 0.535  14.72
                        0.457
27) T   Vinylacetate    0.672 0.691 0.662 0.552 0.467 0.392 0.363 -----

                                                        Q  A= -0.010 R=0.997
                                                           B=  0.539
                                                           C=  0.196
28) T   chloroprene     0.595 0.528 0.547 0.499 0.497 0.479 0.456 0.501  11.44
                        0.407
29) T   Diisopether     1.012 0.999 0.950 0.877 0.878 0.899 0.841 0.907   8.24
                        0.800
30) T   ETBE            1.009 1.010 0.984 0.907 0.921 0.896 0.883 0.923   8.53
                        0.774
31) T   22dichloropr    0.463 0.413 0.430 0.387 0.392 0.373 0.358 0.396   9.61
                        0.349
32) PT  c12dichlorte    0.330 0.293 0.323 0.284 0.283 0.282 0.276 0.292   7.97
                        0.263
33) PT  2Butanone       0.090 0.083 0.086 0.071 0.074 0.069 0.066 0.075# 13.33
                        0.063
34) T   propionitrile   0.110 0.095 0.092 0.081 0.086 0.081 0.080 0.088  12.62
                        0.076
35) T   Ethylacetate    0.023 0.019 0.023 0.018 0.019 0.018 0.019 0.020# 10.32
                        0.019
36) T   methacrylonitri 0.238 0.197 0.212 0.188 0.190 0.187 0.188 0.198   9.32
                        0.183
37) T   Bromochlorma    0.121 0.128 0.116 0.107 0.105 0.098 0.098 0.109  10.44
                        0.099
38) T   Tetrahydofur    0.194 0.188 0.208 0.173 0.169 0.154 0.153 0.177  11.71

39) PT  Chloroform      0.563 0.510 0.497 0.441 0.451 0.437 0.435 0.468  10.81
                        0.411
40) PT  111trichlota    0.564 0.412 0.423 0.395 0.414 0.403 0.386 0.422  14.10
                        0.377
41) S   SURRDibrflma    0.242 0.248 0.246 0.240 0.251 0.252 0.250 0.248   2.20
                        0.256
42) PT  Cyclohexane     0.763 0.556 0.580 0.582 0.548 0.538 0.516 0.572  14.48
                        0.493
43) PT  Carbtetraclo    0.295 0.271 0.290 0.295 0.291 0.297 0.283 0.288   2.99
                        0.284
44) T   11dicloprope    0.157 0.122 0.134 0.138 0.126 0.128 0.125 0.132   8.85
                        0.123
45) S   SURR12DCAd4     0.066 0.062 0.065 0.066 0.064 0.065 0.066 0.065   2.16
                        0.065
46) PT  Benzene         1.251 1.174 1.153 1.115 1.050 1.006 0.972 1.070  12.20
                        0.840
47) PT  12dichlorota    0.482 0.405 0.420 0.400 0.392 0.382 0.385 0.404   8.84
                        0.364
48) T   TAME            1.049 0.829 0.864 0.855 0.798 0.771 0.774 0.829  12.65
                        0.690
49) PT  trichloroete    0.341 0.305 0.292 0.285 0.283 0.278 0.264 0.288   9.03
                        0.258
50) PT  methylcyclohexa 0.547 0.456 0.485 0.466 0.467 0.458 0.469 0.471   7.57
                        0.421
51) PT  12dicloropra    0.422 0.336 0.335 0.310 0.321 0.314 0.331 0.334  11.17
                        0.305
52) T   23Dicl1propene  0.529 0.466 0.454 0.413 0.426 0.415 0.433 0.441   9.57
                        0.393
53) T   Dibromometha    0.196 0.194 0.180 0.162 0.179 0.171 0.184 0.179   6.65
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                        0.169
54) T   methylmethacryl 0.381 0.293 0.309 0.288 0.308 0.299 0.302 0.308  10.02
                        0.283
55) T   14dioxane       0.008 0.006 0.005 0.003 0.003 0.004 0.004 ----- #
                        0.004
                                                        Q  A=  0.000 R=0.999
                                                           B=  0.004
                                                           C=  0.005
56) PT  Bromodiclrma    0.428 0.388 0.364 0.333 0.346 0.347 0.360 0.362   9.03
                        0.329
57) T   2Nitropropane   0.218 0.187 0.186 0.166 0.167 0.151 0.156 -----
                        0.120
                                                        Q  A= -0.002 R=0.999
                                                           B=  0.182
                                                           C= -0.002
58) T   2CLEVE          0.029 0.027 0.025 0.032 0.033 0.033 0.034 -----
                        0.043
                                                        Q  A=  0.001 R=1.000
                                                           B=  0.026
                                                           C=  0.002
59) PT  c13dicloproe    0.588 0.466 0.465 0.444 0.435 0.434 0.427 0.458  12.38
                        0.402
60) PT  4Meth2Pentan    0.667 0.557 0.541 0.446 0.397 0.334 0.297 -----

                                                        Q  A= -0.009 R=0.999
                                                           B=  0.471
                                                           C=  0.118
61) S   SURRd8Tolule    0.997 0.995 1.005 0.939 1.010 0.998 1.007 0.992   2.31
                        0.982
62) PT  Toluene         0.843 0.742 0.709 0.665 0.667 0.647 0.625 0.683  12.20
                        0.567
63) PT  t13Dicloprop    0.549 0.424 0.410 0.382 0.390 0.387 0.389 0.413  13.98
                        0.370
64) T   ethylmethacryla 0.496 0.501 0.491 0.450 0.459 0.437 0.427 0.454   9.53
                        0.372
65) PT  112Triclotha    0.274 0.262 0.220 0.215 0.219 0.216 0.216 0.230  10.39
                        0.216
66) PT  Tetrachlorte    0.283 0.253 0.274 0.246 0.249 0.255 0.240 0.255   6.32
                        0.236
67) T   13Diclorpropa   0.587 0.479 0.466 0.440 0.451 0.442 0.433 0.463  11.85
                        0.405

68) I   d5-CHLOROBENZENE**IST ----------------ISTD---------------------
69) PT  2Hexanone       0.719 0.585 0.610 0.510 0.450 0.382 0.343 -----

                                                        Q  A= -0.010 R=0.999
                                                           B=  0.534
                                                           C=  0.116
70) PT  Clorodibrmta    0.447 0.304 0.346 0.328 0.329 0.335 0.328 0.342  12.97
                        0.317
71) PT  12Dibrometha    0.501 0.366 0.385 0.347 0.356 0.353 0.344 0.374  14.29
                        0.337
72) PT  Chlorobenzen    1.141 0.958 0.946 0.906 0.894 0.876 0.829 0.914  12.12
                        0.765
73) T   1Clhexane       0.538 0.537 0.521 0.532 0.517 0.503 0.476 0.511   5.32
                        0.467
74) T   1112Tetclota    0.382 0.321 0.305 0.311 0.319 0.311 0.308 0.320   8.21
                        0.299
75) PT  Ethylbenzene    1.890 1.782 1.743 1.656 1.581 1.536 1.437 1.603  13.55
                        1.202
76) PT  m p-Xylene      0.699 0.652 0.627 0.629 0.590 0.578 0.545 0.601  10.93
                        0.488
77) PT  o-Xylene        0.765 0.672 0.615 0.603 0.593 0.589 0.559 0.617  11.47
                        0.544
78) PT  Styrene         1.294 1.105 1.050 1.011 0.998 0.973 0.925 1.025  13.08
                        0.843
79) PT  Bromoform       0.325 0.235 0.233 0.240 0.248 0.251 0.245 0.253  11.80
                        0.249
80) PT  Isopropylben    1.783 1.499 1.404 1.430 1.361 1.318 1.237 1.389  14.80
                        1.076
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 81) T   cyclohexanone   0.049 0.030 0.031 0.026 0.026 0.027 0.028 -----
                         0.026
                                                          Q  A= -0.000 R=0.999
                                                             B=  0.028
                                                             C= -0.002

 82) I   d4-1,4-DICHLOROBENZEN ----------------ISTD---------------------
 83) S   SURR4BrFBenz    1.079 1.000 1.055 1.058 1.059 1.075 1.038 1.051   2.35
                         1.046
 84) T   Bromobenzene    0.916 0.694 0.713 0.726 0.689 0.667 0.657 0.711  12.48
                         0.626
 85) PT  1122Tetrclta    1.298 1.173 1.159 1.170 1.147 1.054 1.044 1.128   8.82
                         0.977
 86) T   123Triclproa    1.846 1.487 1.472 1.454 1.475 1.392 1.393 1.478  10.85
                         1.307
 87) T   14dichloro2bute 0.391 0.400 0.399 0.380 0.388 0.362 0.389 0.387   3.07
                         0.390
 88) T   n-Propylbenz    4.158 3.762 3.799 3.688 3.461 3.222 2.981 3.582  10.98

 89) T   2chlorotolue    2.448 2.224 2.263 2.122 2.062 1.987 1.896 2.092  10.72
                         1.735
 90) T   4chlorotolue    2.790 2.518 2.529 2.533 2.382 2.259 2.145 2.380  11.73
                         1.887
 91) T   135Trimebenz    2.872 2.442 2.516 2.476 2.392 2.240 2.129 2.366  12.58
                         1.864
 92) T   tbutylbenzen    2.506 2.057 2.020 2.028 1.953 1.863 1.752 1.973  13.49
                         1.602
 93) T   124Trimetben    2.797 2.525 2.507 2.509 2.384 2.251 2.125 2.369  12.20
                         1.855
 94) T   sbutylbenzen    3.196 2.878 3.134 3.052 2.880 2.732 2.546 2.822  12.13
                         2.159
 95) PT  13Diclorbenz    1.384 1.256 1.224 1.222 1.199 1.169 1.132 1.204   8.08
                         1.048
 96) T   pIsopropylto    2.834 2.335 2.414 2.386 2.284 2.189 2.082 2.295  12.56
                         1.836
 97) PT  14dichlorobe    1.501 1.276 1.263 1.253 1.226 1.174 1.133 1.235  10.59
                         1.056
 98) PT  12dichlorobe    1.453 1.274 1.167 1.153 1.133 1.100 1.052 1.166  12.21
                         0.995
 99) T   nButylbenzen    2.557 2.242 2.414 2.394 2.268 2.131 2.041 2.229  10.87
                         1.787
100) PT  12dibromo3cl    0.371 0.306 0.305 0.294 0.294 0.274 0.308 0.305   9.42
                         0.289
101) T   135Trichloroben 1.076 0.810 0.805 0.800 0.793 0.781 0.856 0.829  12.93
                         0.712
102) PT  124Trichlobe    0.966 0.662 0.675 0.703 0.700 0.701 0.685 0.717  14.33
                         0.644
103) T   Hexachlorobu    0.204 0.278 0.294 0.292 0.285 0.277 0.271 0.269  10.98
                         0.250
104) T   Naphthalene     3.423 2.822 2.833 2.697 2.658 2.443 2.419 2.756  12.21

105) T   123Trichlben    0.810 0.687 0.713 0.652 0.664 0.658 0.631 0.677   9.46
                         0.598
 ------------------------------------------------------------------------------
                                                   Total Average %RSD  10.58
 ------------------------------------------------------------------------------
 L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
 (#) = Out of Range

           W100516.M         Wed Oct 19 11:49:27 2016
```

BFB

Data File : C:\INSTARCH\Data\OCT0516B\BFB1.D Vial: 1
Acq On : 5 Oct 2016 21:34 Operator: AGK-RLD
Sample : BFB Injection Inst : VMS3
Misc : 25 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W100516.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.423 to 4.435 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	29344	PASS
75	95	30	60	50.2	71549	PASS
95	95	100	100	100.0	142665	PASS
96	95	5	9	6.7	9594	PASS
173	174	0.00	2	0.3	334	PASS
174	95	50	100	72.2	103045	PASS
175	174	5	9	7.4	7608	PASS
176	174	95	101	96.5	99477	PASS
177	176	5	9	6.6	6568	PASS

W100516.M Wed Oct 19 11:46:37 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL1.D Vial: 5
Acq On : 5 Oct 2016 23:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:23:57 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:18 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1543059	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1183364	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	588712	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	372791	19.475 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 97 %		
45) SURR12DCAd4	7.07	102	102035	20.383 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 102 %		
61) SURRd8Tolule	9.51	98	1538297	20.108 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 101 %		
83) SURR4BrFBenz	13.04	95	635303	20.531 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 103 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.76	85	11486	0.6293 ug/L	86
3) Chloromethan	1.99	50	36973m	0.7142 ug/L	97
4) VinylChlorid	2.14	62	18554	0.5962 ug/L	94
5) Bromomethane	2.58	94	4963	0.5915 ug/L #	59
6) Chloroethane	2.74	64	10182m	0.4995 ug/L #	76
7) Dichloroflmethane	3.04	67	19483m	0.4832 ug/L	92
8) Trichlorofma	3.13	101	15964	0.5559 ug/L	80
9) Ethylether	3.56	59	9893m	0.4456 ug/L #	90
10) dichlorotfluoroethan	3.56	67	12254	0.5388 ug/L #	80
11) propyleneoxide	3.89	58	39244m	5.7777 ug/L #	94
12) Acrolein	3.69	56	24024m	2.3337 ug/L #	96
13) 11dichlorthe	3.83	96	11980	0.6030 ug/L	96
14) Trichlorotfluoroeth	3.86	101	22294	1.2246 ug/L	95
15) Acetone	3.89	43	81442m	4.3889 ug/L #	98
16) Iodomethane	4.01	142	25275m	1.6563 ug/L	86
17) Carbon Dislf	4.09	76	60069m	1.1577 ug/L	93
18) allylchloride	4.31	41	32969m	1.0485 ug/L #	95
19) methylacetate	4.37	74	5134m	0.3803 ug/L #	89
20) Methylchlorid	4.47	84	17627m	0.7071 ug/L #	89
21) tbutylalcohol	4.66	59	303275m	44.2457 ug/L	99
22) Acrylonitrile	4.76	53	48971	3.2806 ug/L	97
23) t12dichlorte	4.84	96	14144	0.6688 ug/L	94
24) MtBE	4.87	73	37525	0.6102 ug/L	75
25) Hexane	5.23	57	42414	1.2919 ug/L	99
26) 11dichlorota	5.35	63	27396	0.6636 ug/L	97
27) Vinylacetate	5.45	43	259144m	6.3452 ug/L	98
28) chloroprene	5.49	53	45875m	1.1512 ug/L	89
29) Diisopether	5.52	45	39057m	0.5399 ug/L	94
30) ETBE	5.96	59	38922m	0.5276 ug/L	99
31) 22dichloropr	6.08	77	17846m	0.5685 ug/L	89
32) c12dichlorte	6.08	96	12739	0.5658 ug/L #	80
33) 2Butanone	6.10	72	34719m	5.8192 ug/L	100
34) propionitrile	6.13	54	42580	6.2954 ug/L	94
35) Ethylacetate	6.21	88	4497	2.9579 ug/L #	81
36) methacrylonitrile	6.34	67	18324	1.2005 ug/L	90
37) Bromochlorma	6.36	128	4661m	0.5185 ug/L #	87
38) Tetrahydofur	6.45	42	74988m	5.4381 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL1.D Vial: 5
Acq On : 5 Oct 2016 23:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:23:57 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:18 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.47	83	21706m	0.5754 ug/L	89
40)	111trichlota	6.71	97	21764	0.6688 ug/L	89
42)	Cyclohexane	6.81	56	29422	0.6670 ug/L	98
43)	Carbtetraclo	6.94	119	11379	0.5117 ug/L	97
44)	11dicloprope	6.91	110	6067	0.5971 ug/L #	74
46)	Benzene	7.17	78	48271m	0.5688 ug/L	93
47)	12dichlorota	7.15	62	18581	0.5968 ug/L #	86
48)	TAME	7.34	73	40460	0.6328 ug/L	94
49)	trichloroete	7.98	95	13160	0.5917 ug/L	93
50)	methylcyclohexane	8.25	83	21100	0.5805 ug/L	87
51)	12dicloropra	8.24	63	16293	0.6314 ug/L	88
52)	23Dicl1propene	8.29	75	20394	0.5991 ug/L	84
53)	Dibromometha	8.38	93	7577m	0.5253 ug/L #	93
54)	methylmethacrylate	8.41	69	14696	0.6187 ug/L	97
55)	14dioxane	8.41	88	14973m	38.7845 ug/L #	98
56)	Bromodiclrma	8.57	83	16509	0.5916 ug/L #	92
57)	2Nitropropane	8.82	43	84177m	6.3286 ug/L	99
58)	2CLEVE	8.95	63	5509	2.2421 ug/L #	46
59)	c13dicloproe	9.15	75	22687	0.6427 ug/L	85
60)	4Meth2Pentan	9.34	43	257494m	7.6119 ug/L	95
62)	Toluene	9.59	92	32515	0.6170 ug/L	99
63)	t13Dicloprop	9.85	75	21191	0.6656 ug/L	93
64)	ethylmethacrylate	10.01	69	38297m	1.0429 ug/L #	96
65)	112Triclotha	10.09	83	10574	0.5967 ug/L	85
66)	Tetrachlorte	10.33	166	10920	0.5558 ug/L	84
67)	13Diclorpropa	10.31	76	22651	0.6342 ug/L	98
69)	2Hexanone	10.43	43	212652m	7.2881 ug/L	96
70)	Clorodibrmta	10.61	129	13222	0.6541 ug/L	99
71)	12Dibrometha	10.76	107	14811	0.6701 ug/L	84
72)	Chlorobenzen	11.44	112	33770	0.6241 ug/L #	66
73)	1Clhexane	11.44	91	15929m	0.4887 ug/L #	55
74)	1112Tetclota	11.56	131	11304	0.5977 ug/L	87
75)	Ethylbenzene	11.61	91	55910m	0.5755 ug/L	90
76)	m p-Xylene	11.77	106	41350m	1.1342 ug/L #	89
77)	o-Xylene	12.33	106	22623	0.6193 ug/L	97
78)	Styrene	12.33	104	38276	0.6311 ug/L	97
79)	Bromoform	12.56	173	9621	0.6424 ug/L	92
80)	Isopropylben	12.85	105	52736	0.6419 ug/L	92
81)	cyclohexanone	12.93	55	28803m	15.1581 ug/L	95
84)	Bromobenzene	13.24	156	13479m	0.6338 ug/L #	95
85)	1122Tetrclta	13.22	83	19104m	0.5544 ug/L #	88
86)	123Triclproa	13.28	75	27172	0.6245 ug/L	90
87)	14dichloro2butene	13.30	53	5757m	0.4652 ug/L #	94
88)	n-Propylbenz	13.43	91	61203m	0.5892 ug/L	97
89)	2chlorotolue	13.54	91	36032	0.5851 ug/L	98
90)	4chlorotolue	13.68	91	41070m	0.5663 ug/L	93
91)	135Trimebenz	13.68	105	42271m	0.5971 ug/L	97
92)	tbutylbenzen	14.16	119	36887	0.6353 ug/L	95
93)	124Trimetben	14.22	105	41169m	0.5779 ug/L	99
94)	sbutylbenzen	14.47	105	47038m	0.5515 ug/L	100
95)	13Diclorbenz	14.61	146	20365	0.5745 ug/L	79
96)	pIsopropylto	14.69	119	41713	0.6174 ug/L #	96
97)	14dichlorobe	14.73	146	22092m	0.5959 ug/L #	70
98)	12dichlorobe	15.27	146	21388m	0.6149 ug/L #	67
99)	nButylbenzen	15.29	91	37636m	0.5486 ug/L	92
100)	12dibromo3cl	16.37	157	5459m	0.5910 ug/L #	89
101)	135Trichlorobenzene	16.71	180	15831	0.6485 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL1.D Vial: 5
Acq On : 5 Oct 2016 23:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:23:57 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:18 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.53	180	14219	0.6736 ug/L	89
103) Hexachlorobu	17.79	225	3009	0.3802 ug/L #	42
104) Naphthalene	17.82	128	50375m	0.6216 ug/L	96
105) 123Trichlben	18.14	180	11927m	0.5830 ug/L	91

(#) = qualifier out of range (m) = manual integration
WCAL1.D W100516.M Wed Oct 19 11:57:52 2016

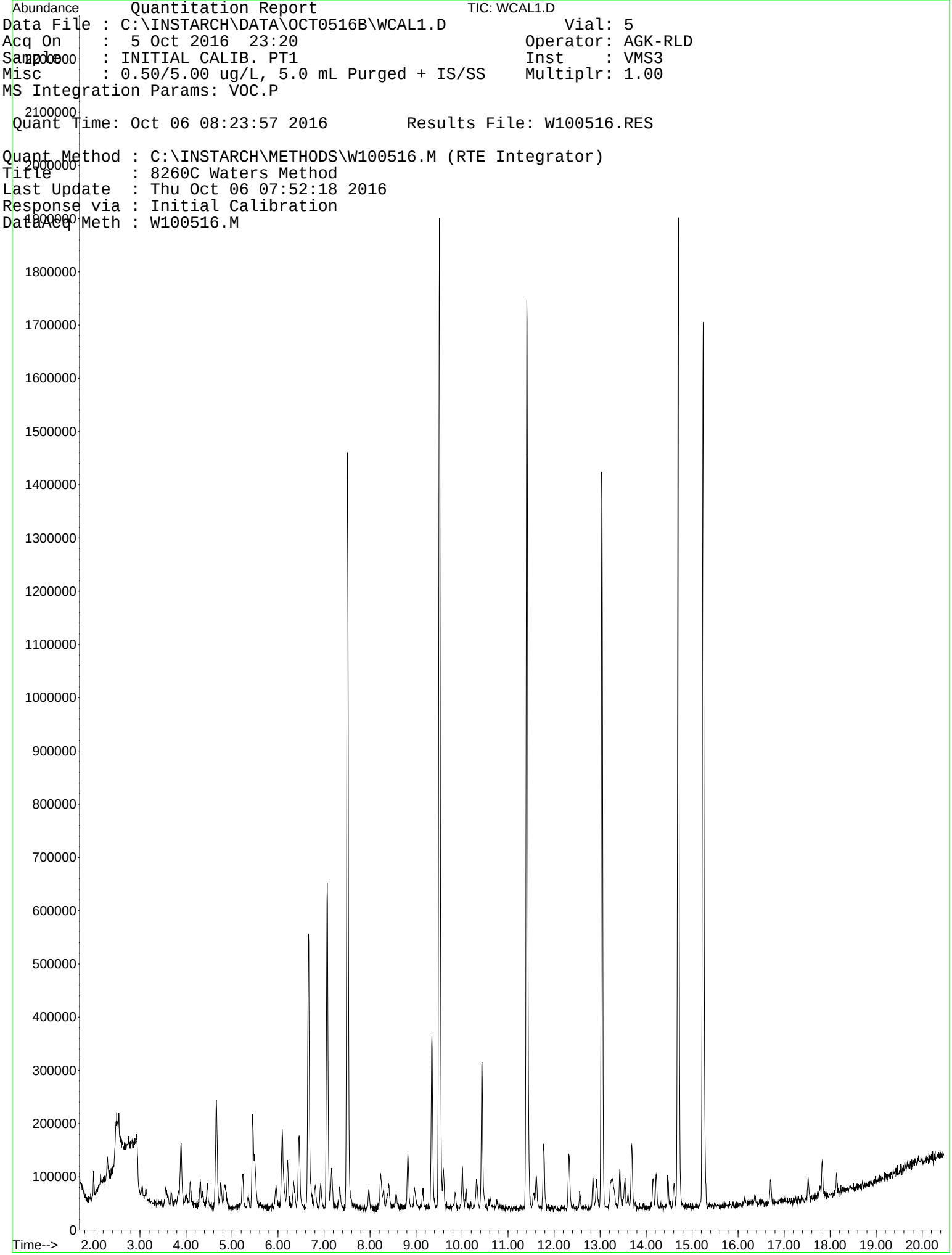
Quantitation Report

TIC: WCAL1.D

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL1.D Vial: 5
Acq On : 5 Oct 2016 23:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT1 Inst : VMS3
Misc : 0.50/5.00 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

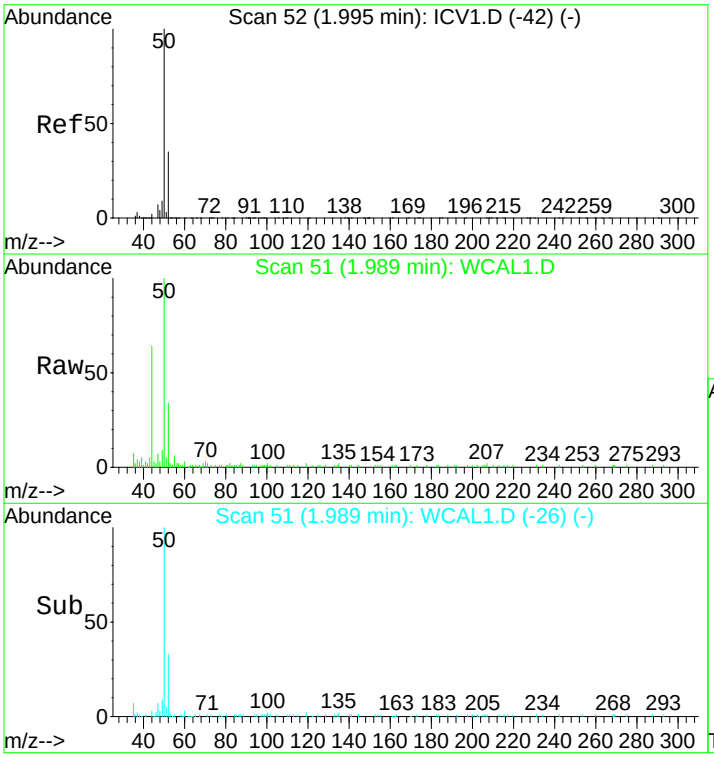
Quant Time: Oct 06 08:23:57 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:18 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



After Manual Integration

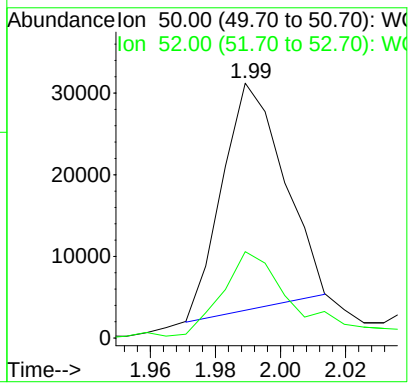
AGK 10/19/16

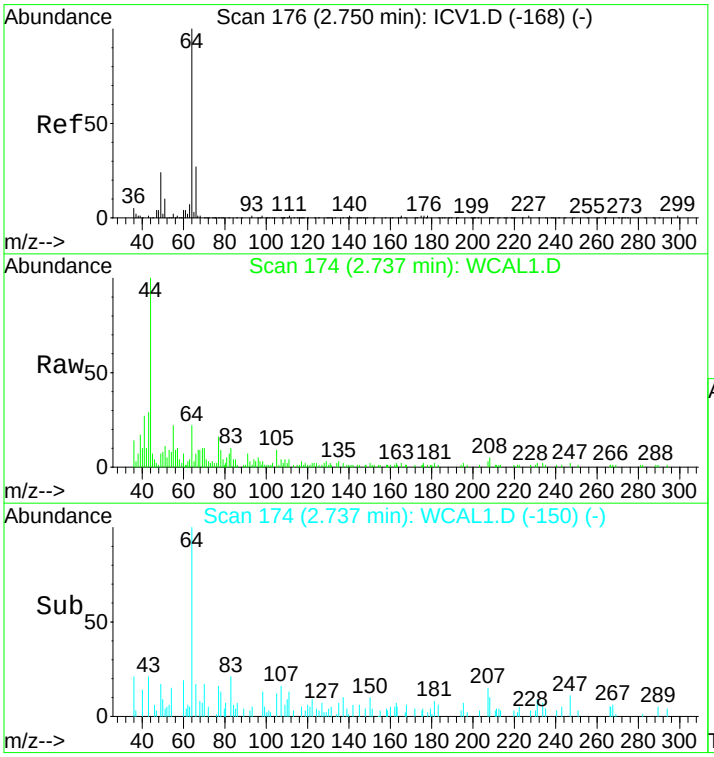


#3
Chloromethan
Concen: 0.71 ug/L m
RT: 1.99 min Scan# 51
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 50 Resp: 36973

Ion	Ratio	Lower	Upper
50	100		
52	50.1	13.5	53.5

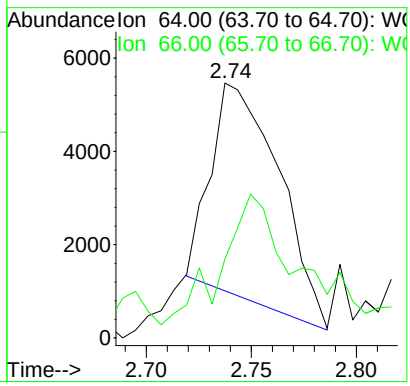




#6
Chloroethane
Concen: 0.50 ug/L m
RT: 2.74 min Scan# 174
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 64 Resp: 10182

Ion	Ratio	Lower	Upper
64	100		
66	66.9	13.4	53.4#



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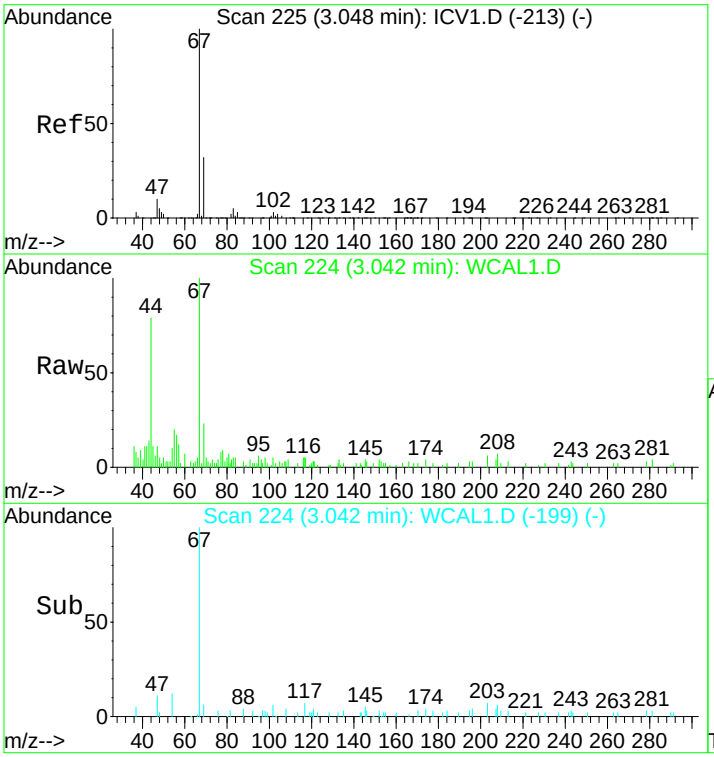
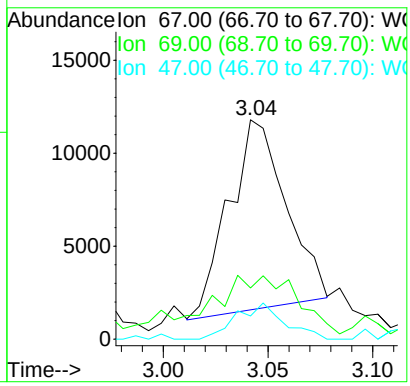
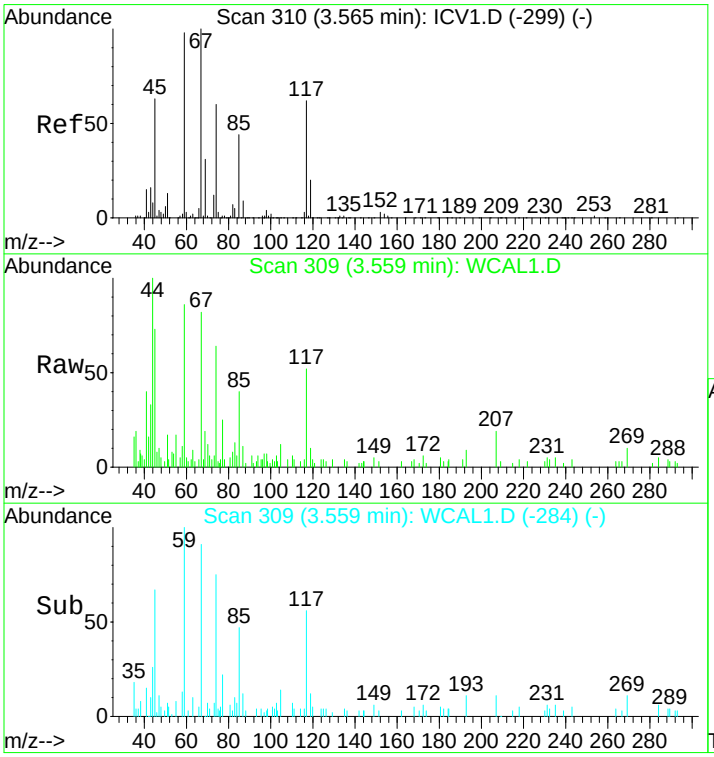


#7
Dichloroflmethane
Concen: 0.48 ug/L m
RT: 3.04 min Scan# 224
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 67 Resp: 19483

Ion	Ratio	Lower	Upper
67	100		
69	40.9	14.0	54.0
47	15.8	0.0	31.5

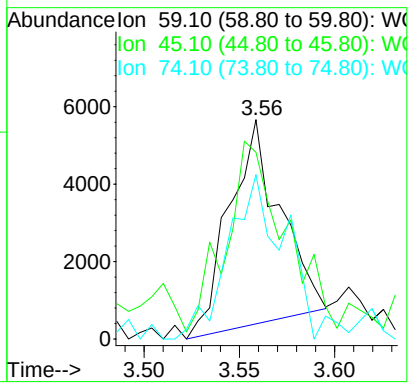




#9
Ethylether
Concen: 0.45 ug/L m
RT: 3.56 min Scan# 309
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 59 Resp: 9893

Ion	Ratio	Lower	Upper
59	100		
45	107.9	44.4	84.4#
74	91.2	45.3	85.3#



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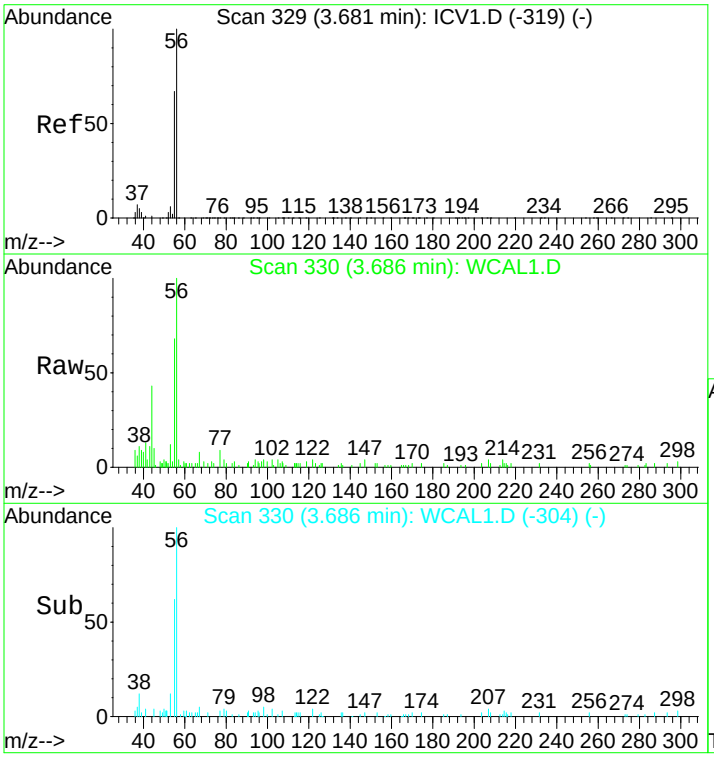
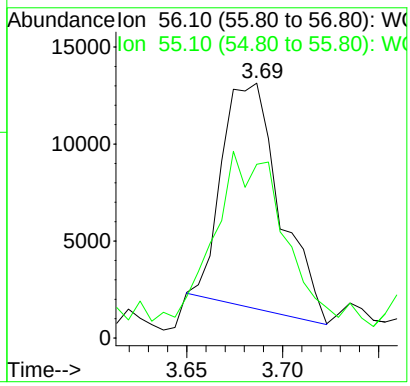
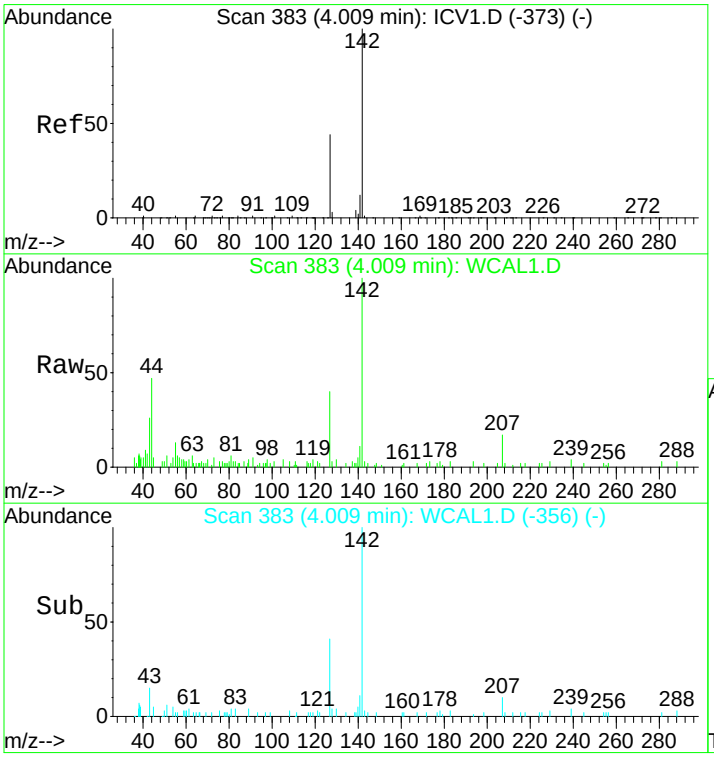


#12
Acrolein
Concen: 2.33 ug/L m
RT: 3.69 min Scan# 330
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 56 Resp: 24024

Ion	Ratio	Lower	Upper
56	100		
55	95.6	50.7	90.7#

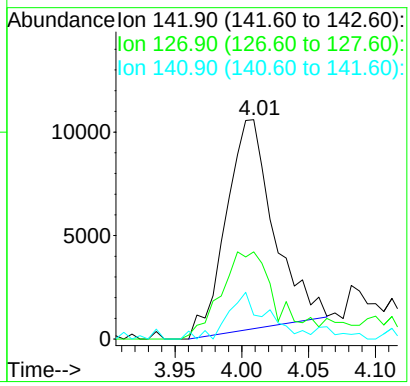




#16
Iodomethane
Concen: 1.66 ug/L m
RT: 4.01 min Scan# 383
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:142 Resp: 25275

Ion	Ratio	Lower	Upper
142	100		
127	61.3	21.3	61.3
141	18.0	0.0	33.9



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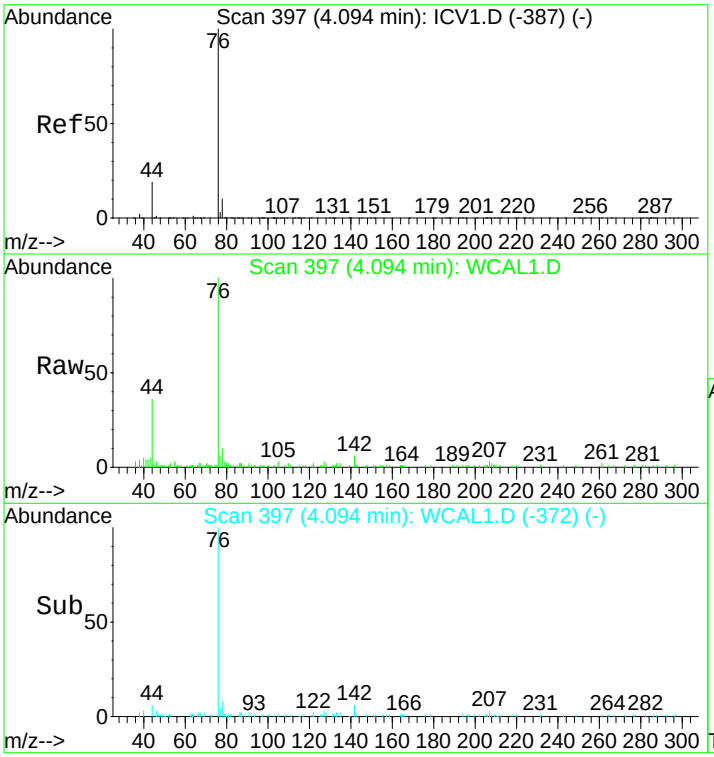
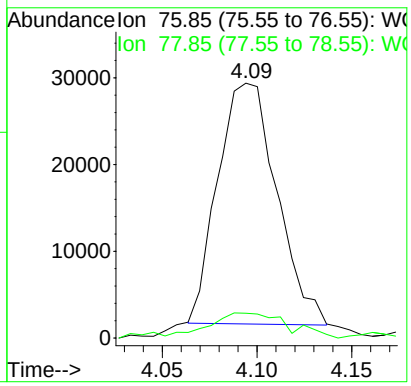
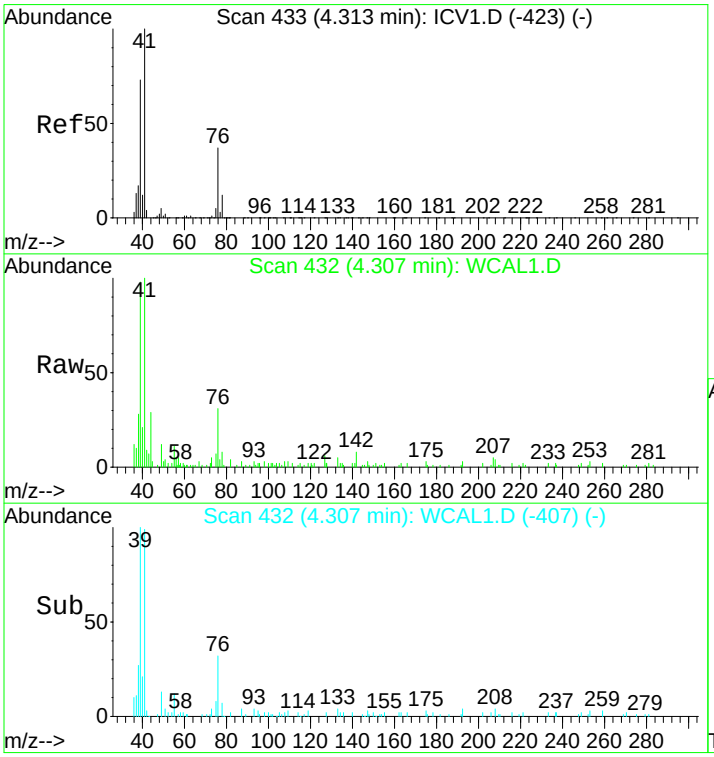


#17
Carbon Dislf
Concen: 1.16 ug/L m
RT: 4.09 min Scan# 397
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 76 Resp: 60069

Ion	Ratio	Lower	Upper
76	100		
78	13.9	0.0	29.3

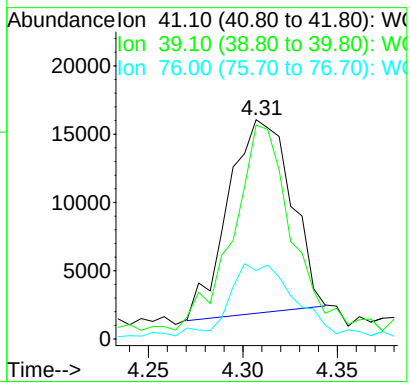




#18
allylchloride
Concen: 1.05 ug/L m
RT: 4.31 min Scan# 432
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 41 Resp: 32969

Ion	Ratio	Lower	Upper
41	100		
39	100.0	52.0	92.0#
76	41.9	15.3	55.3



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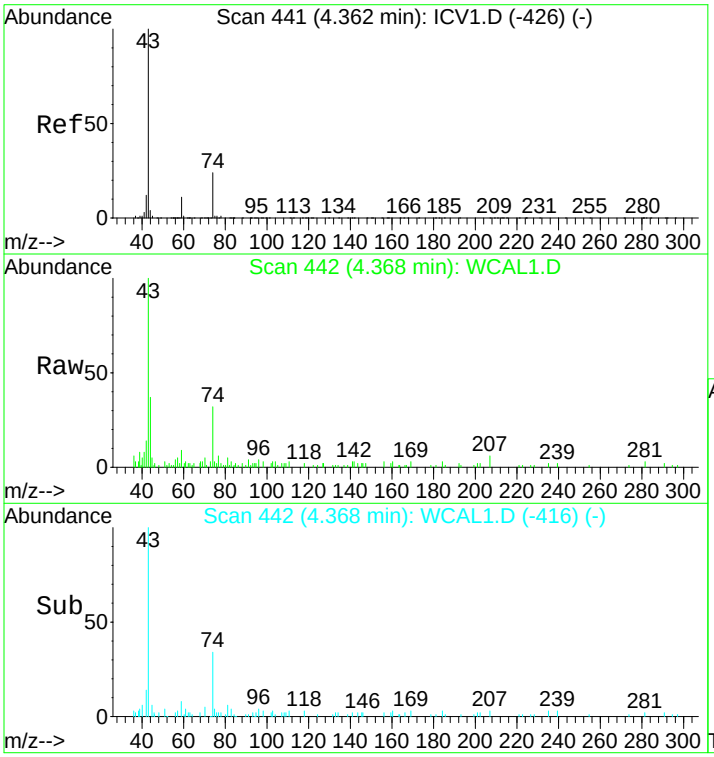
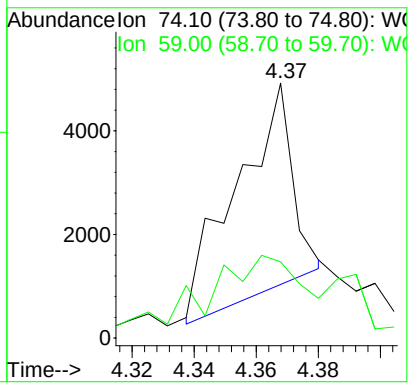
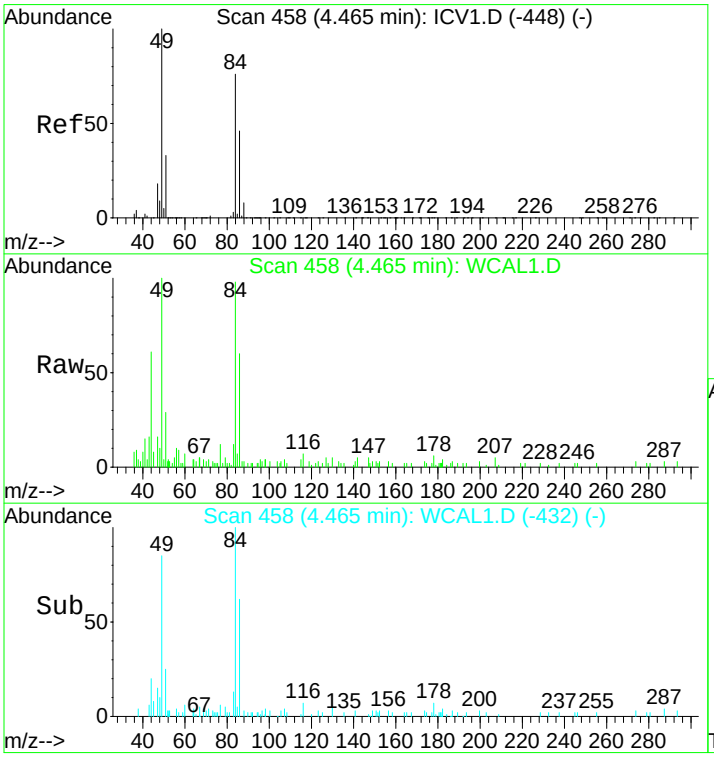


#19
methylacetate
Concen: 0.38 ug/L m
RT: 4.37 min Scan# 442
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 74 Resp: 5134

Ion	Ratio	Lower	Upper
74	100		
59	90.4	19.9	59.9#

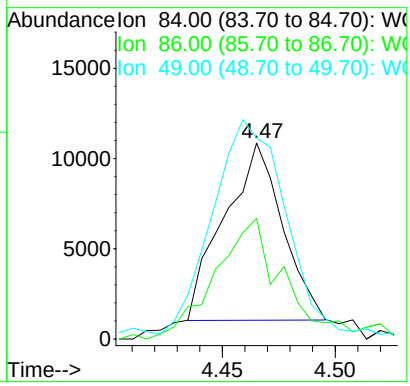




#20
Methylchlorid
Concen: 0.71 ug/L m
RT: 4.47 min Scan# 458
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 84 Resp: 17627

Ion	Ratio	Lower	Upper
84	100		
86	82.4	48.9	88.9
49	163.9	117.6	157.6#



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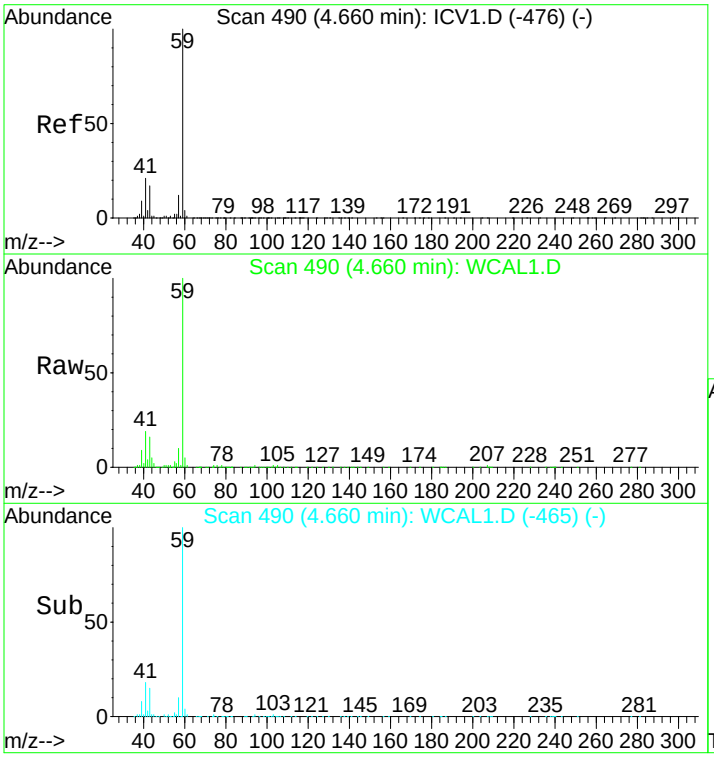
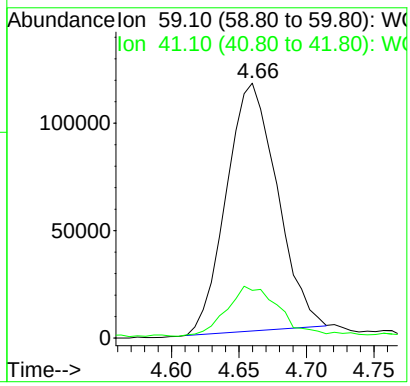
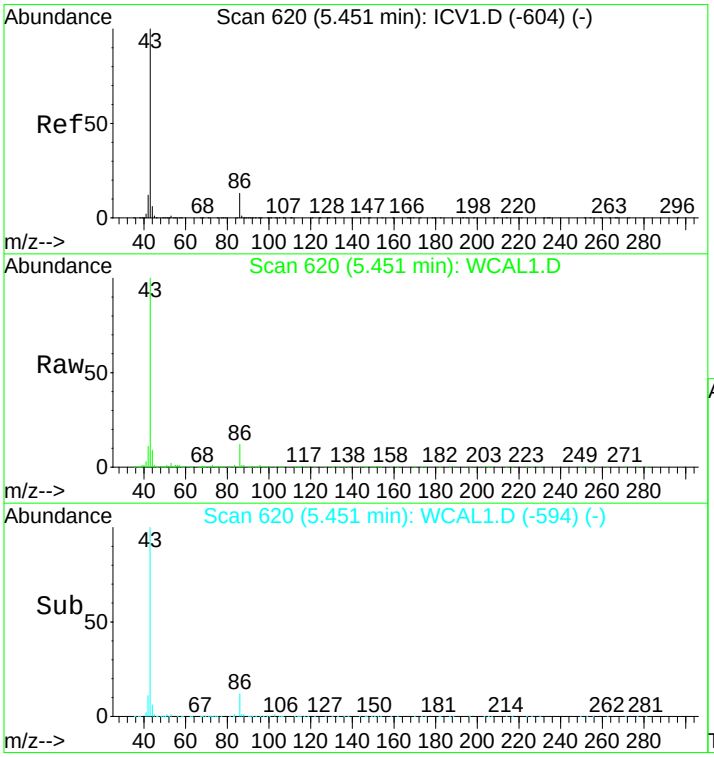


#21
tbutylalcohol
Concen: 44.25 ug/L m
RT: 4.66 min Scan# 490
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 59 Resp: 303275

Ion	Ratio	Lower	Upper
59	100		
41	22.3	0.0	39.8

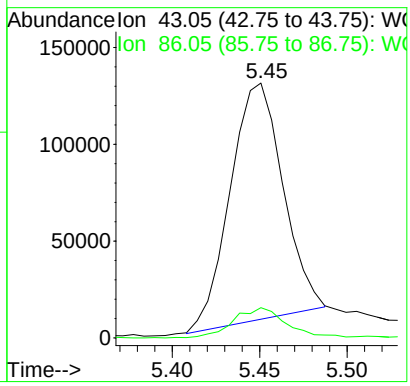




#27
Vinylacetate
Concen: 6.35 ug/L m
RT: 5.45 min Scan# 620
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 259144

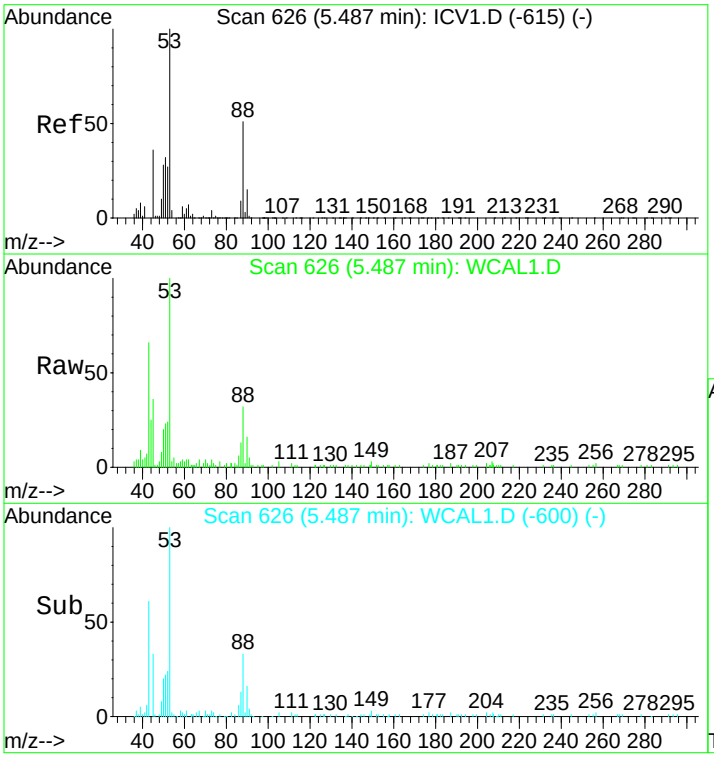
Ion	Ratio	Lower	Upper
43	100		
86	13.5	0.0	31.2



RJ 10/19/2016

After Manual Integration

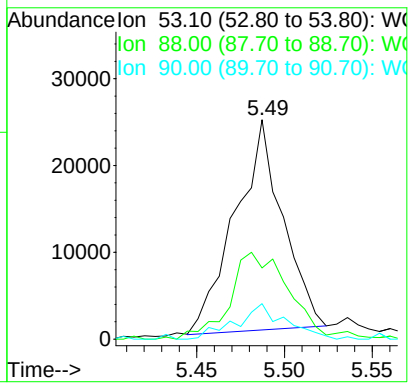
AGK 10/19/16

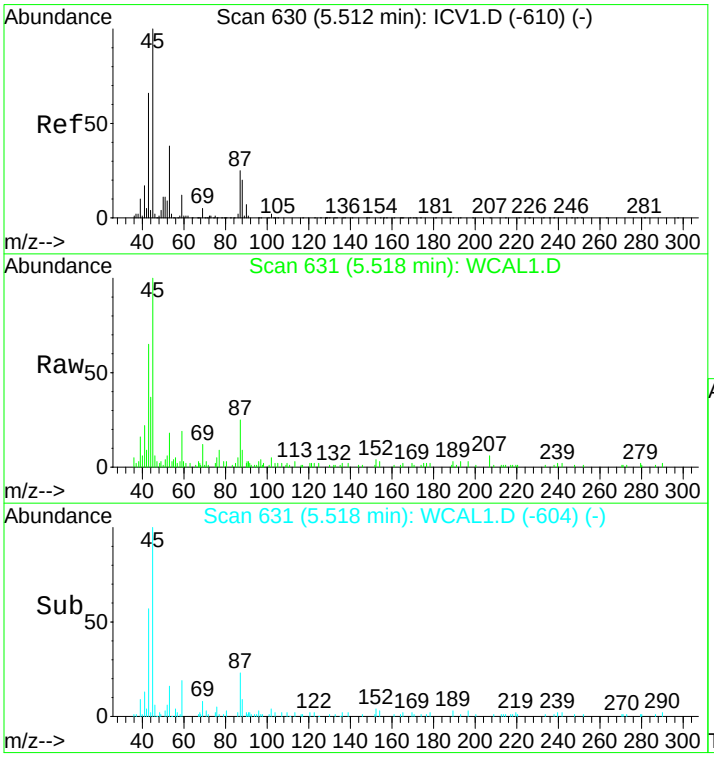


#28
chloroprene
Concen: 1.15 ug/L m
RT: 5.49 min Scan# 626
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 53 Resp: 45875

Ion	Ratio	Lower	Upper
53	100		
88	52.3	32.6	72.6
90	17.5	0.0	35.9

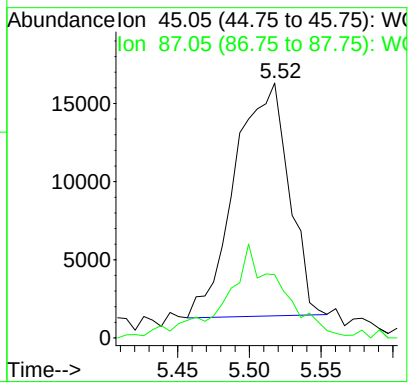




#29
Diisopether
Concen: 0.54 ug/L m
RT: 5.52 min Scan# 631
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 45 Resp: 39057

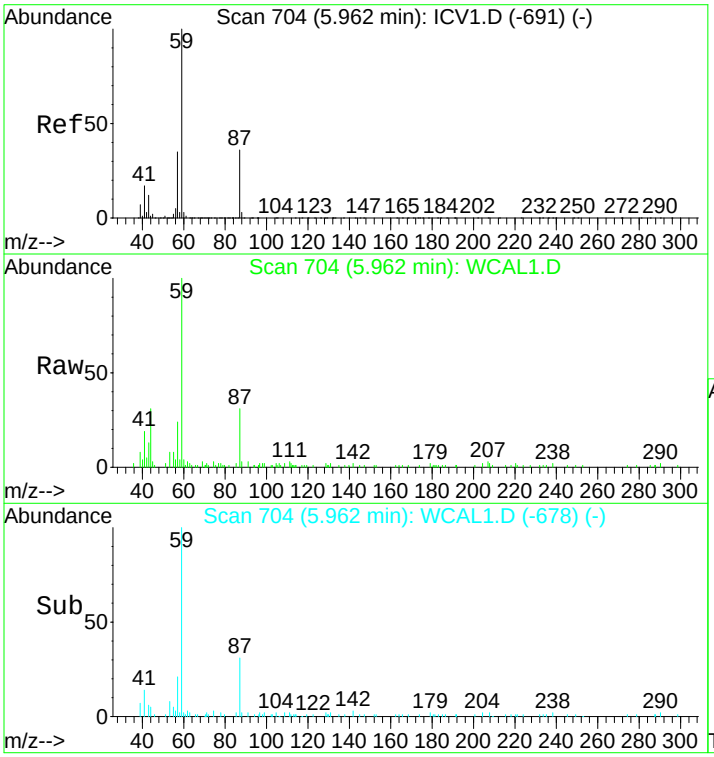
Ion	Ratio	Lower	Upper
45	100		
87	42.5	10.8	50.8



RJ 10/19/2016

After Manual Integration

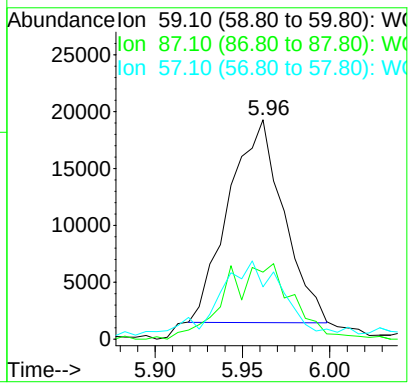
AGK 10/19/16

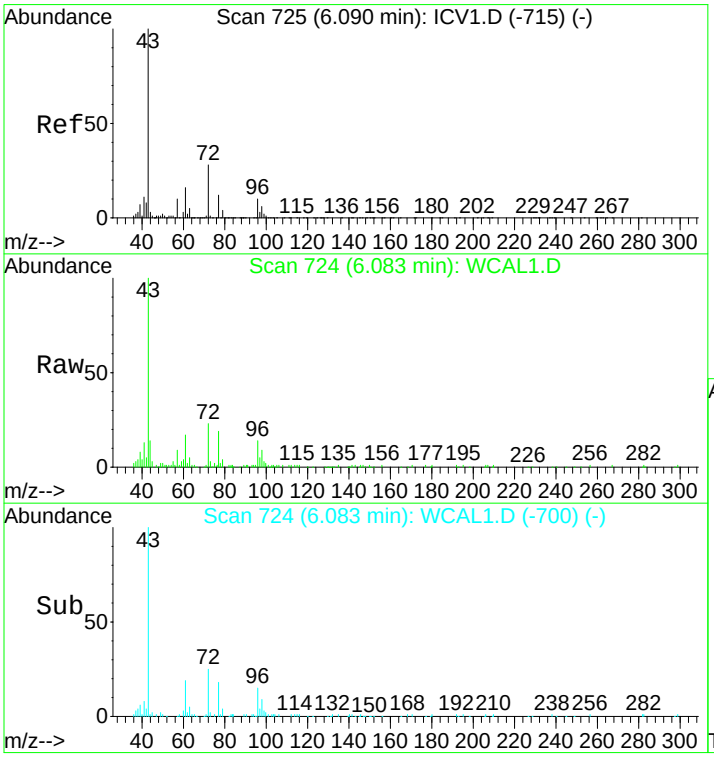


#30
ETBE
Concen: 0.53 ug/L m
RT: 5.96 min Scan# 704
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 59 Resp: 38922

Ion	Ratio	Lower	Upper
59	100		
87	46.1	16.4	56.4
57	42.5	12.3	52.3

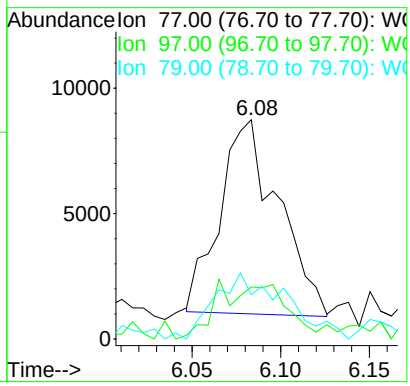




#31
22dichloropr
Concen: 0.57 ug/L m
RT: 6.08 min Scan# 724
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 77 Resp: 17846

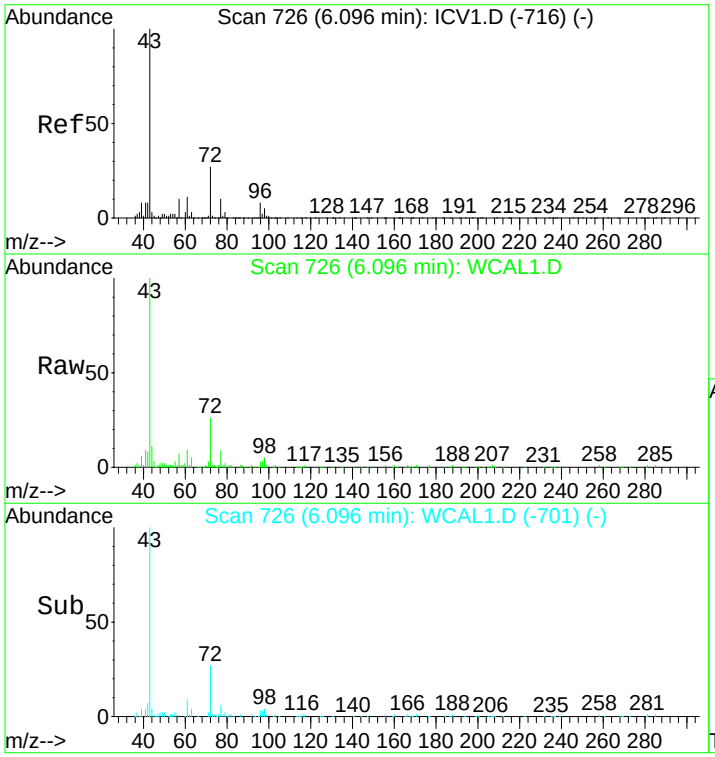
Ion	Ratio	Lower	Upper
77	100		
97	39.0	2.3	42.3
79	41.0	12.3	52.3



RJ 10/19/2016

After Manual Integration

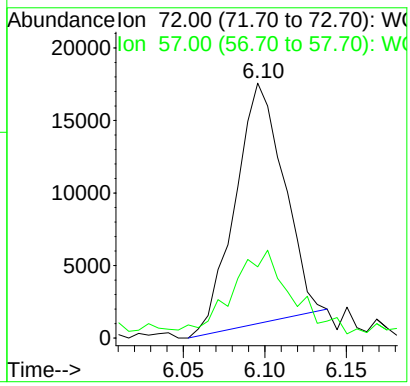
AgK 10/19/16

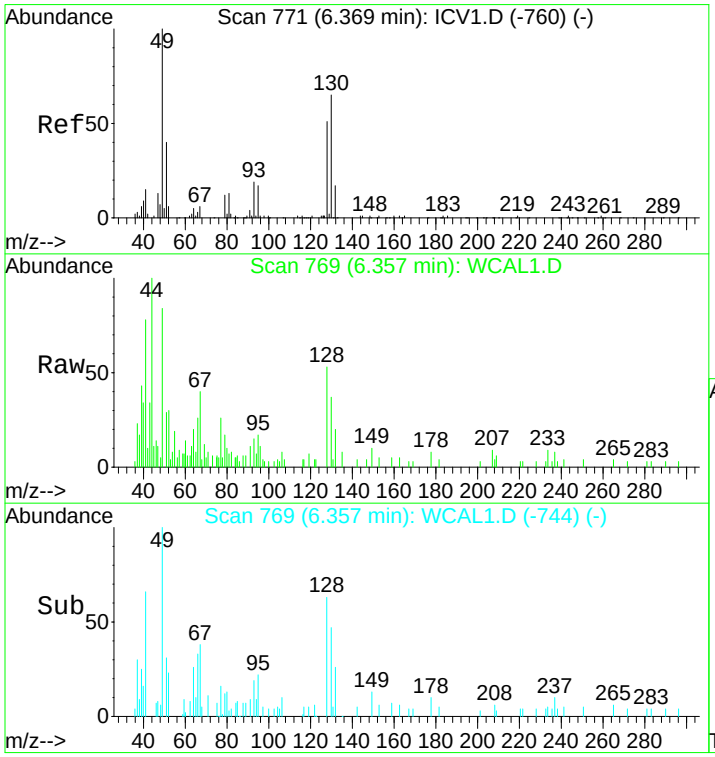


#33
2Butanone
Concen: 5.82 ug/L m
RT: 6.10 min Scan# 726
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 72 Resp: 34719

Ion	Ratio	Lower	Upper
72	100		
57	40.3	14.0	54.0

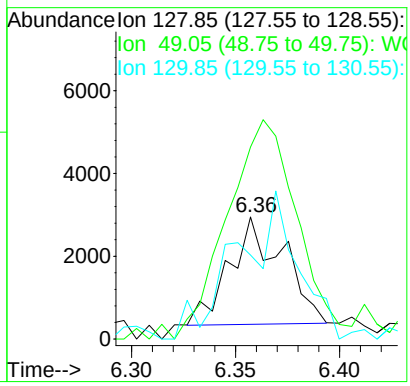




#37
Bromochlorma
Concen: 0.52 ug/L m
RT: 6.36 min Scan# 769
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:128 Resp: 4661

Ion	Ratio	Lower	Upper
128	100		
49	268.7	176.0	216.0#
130	157.3	103.7	143.7#



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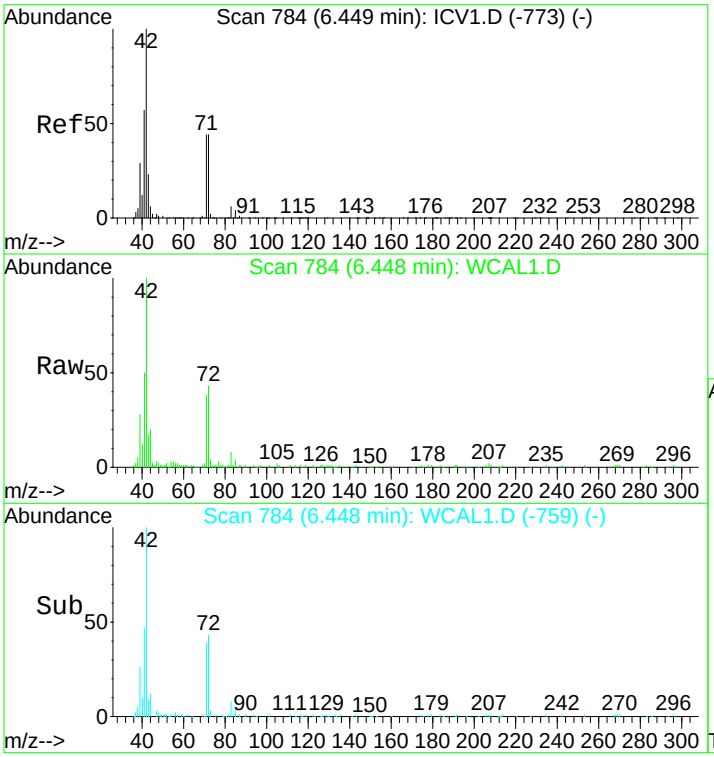
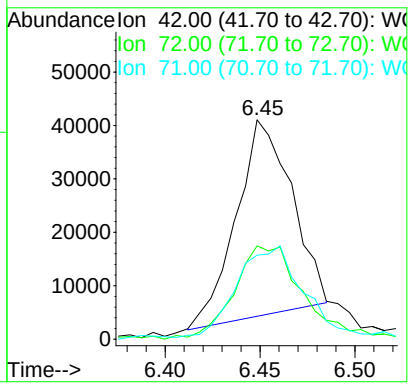
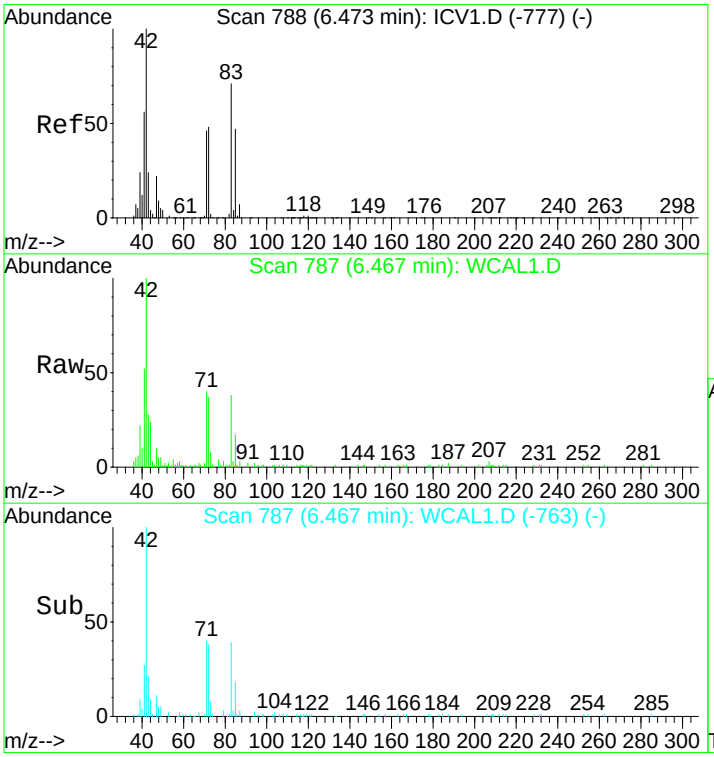


#38
Tetrahydofur
Concen: 5.44 ug/L m
RT: 6.45 min Scan# 784
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 42 Resp: 74988

Ion	Ratio	Lower	Upper
42	100		
72	59.4	25.1	65.1
71	57.2	21.6	61.6

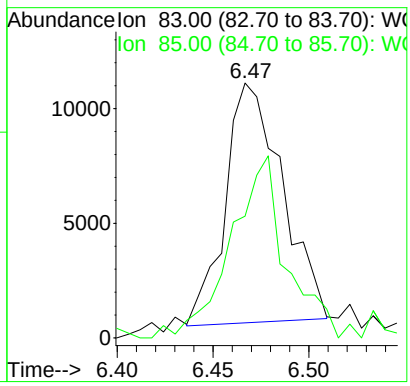




#39
Chloroform
Concen: 0.58 ug/L m
RT: 6.47 min Scan# 787
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 83 Resp: 21706

Ion	Ratio	Lower	Upper
83	100		
85	74.0	45.9	85.9



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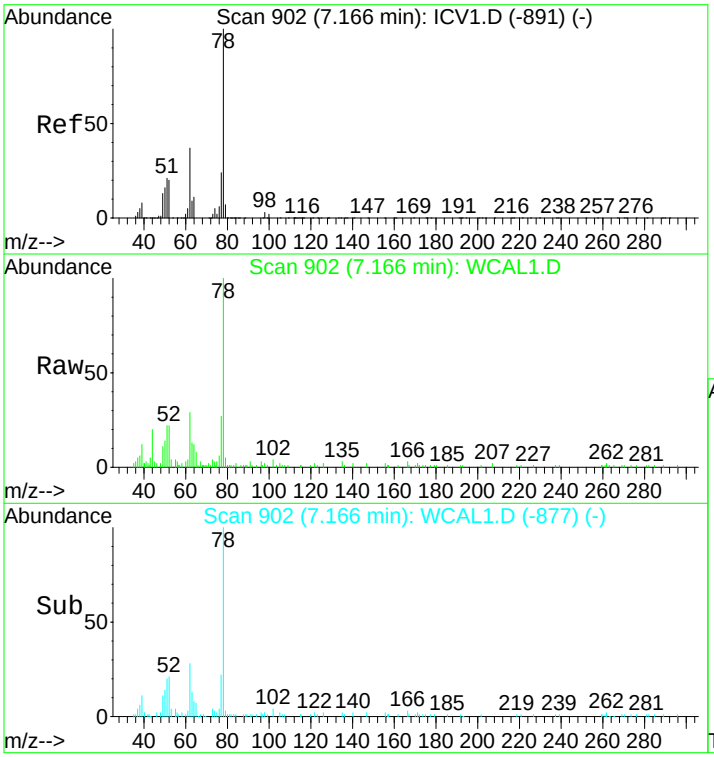
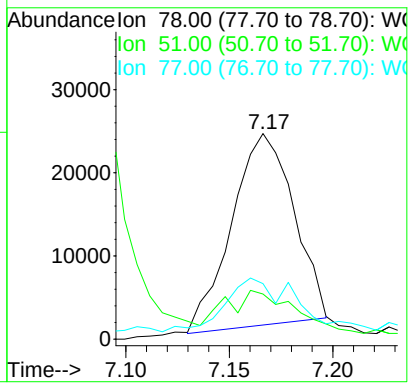
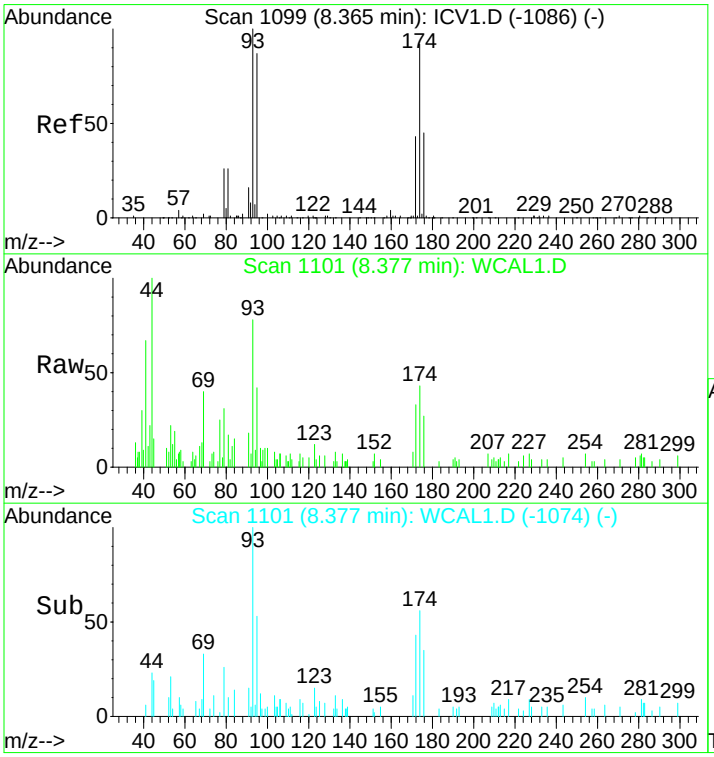


#46
Benzene
Concen: 0.57 ug/L m
RT: 7.17 min Scan# 902
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 78 Resp: 48271

Ion	Ratio	Lower	Upper
78	100		
51	31.5	2.9	42.9
77	32.5	4.2	44.2

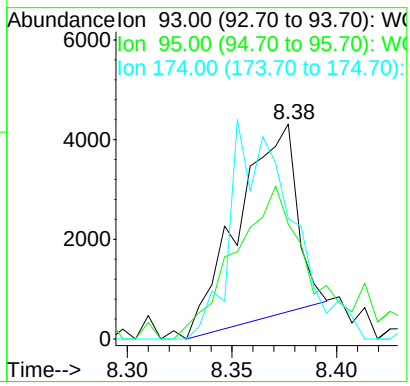




#53
Dibromometha
Concen: 0.53 ug/L m
RT: 8.38 min Scan# 1101
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 93 Resp: 7577

Ion	Ratio	Lower	Upper
93	100		
95	120.5	68.2	108.2#
174	117.5	78.5	118.5



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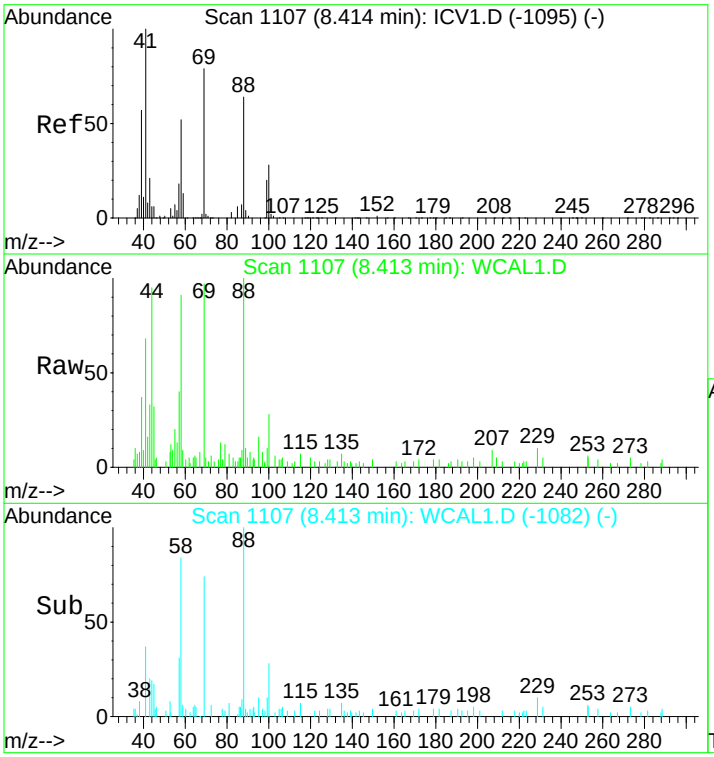
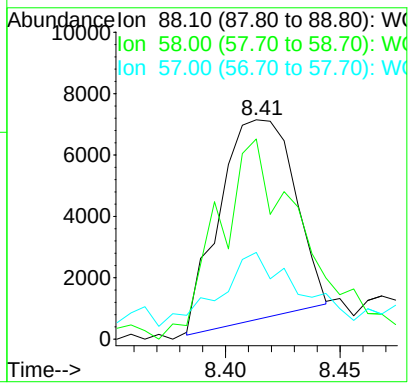
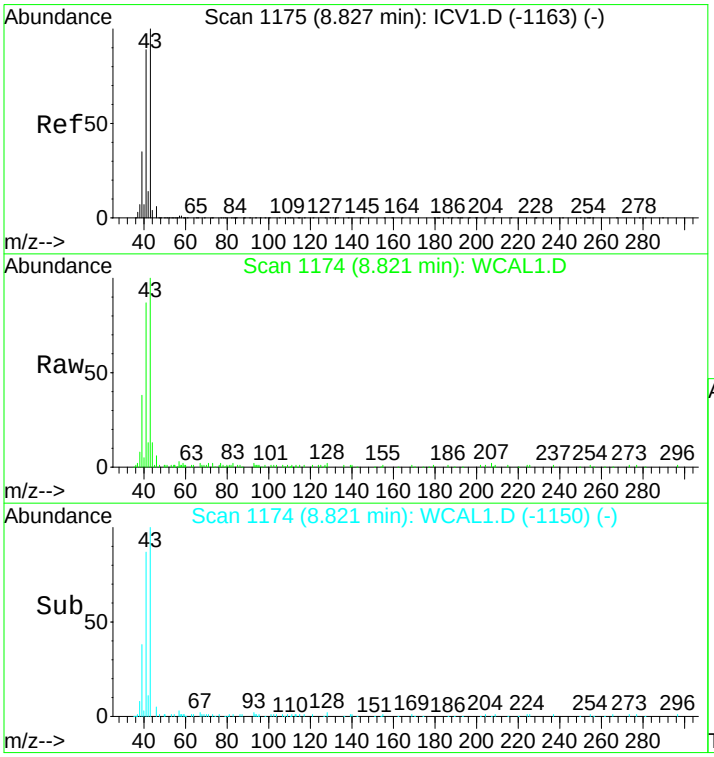


#55
14dioxane
Concen: 38.78 ug/L m
RT: 8.41 min Scan# 1107
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 88 Resp: 14973

Ion	Ratio	Lower	Upper
88	100		
58	113.5	58.0	98.0#
57	50.6	11.8	51.8

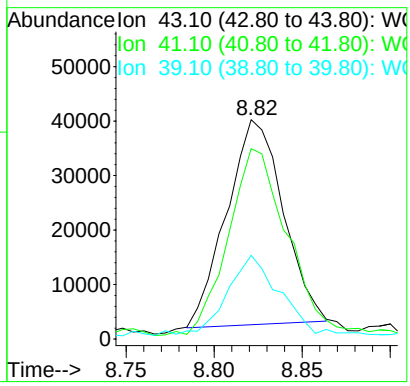




#57
2Nitropropane
Concen: 6.33 ug/L m
RT: 8.82 min Scan# 1174
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 84177

Ion	Ratio	Lower	Upper
43	100		
41	96.8	65.9	105.9
39	36.7	13.5	53.5



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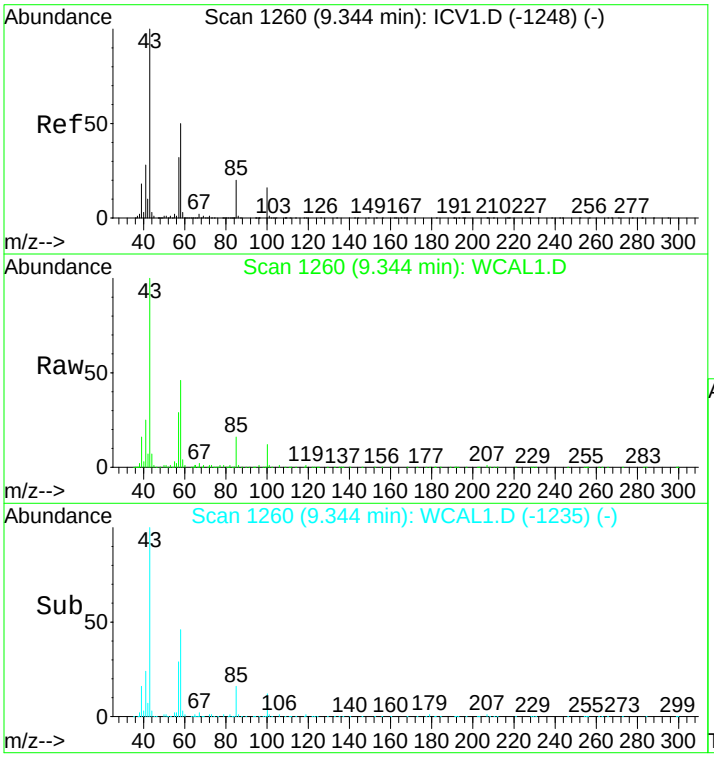
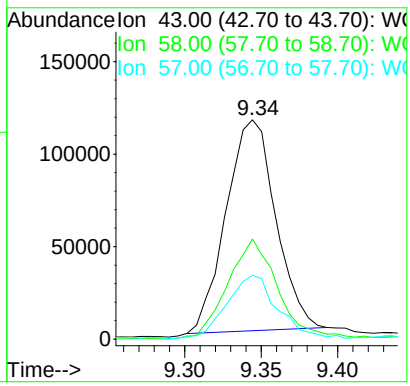
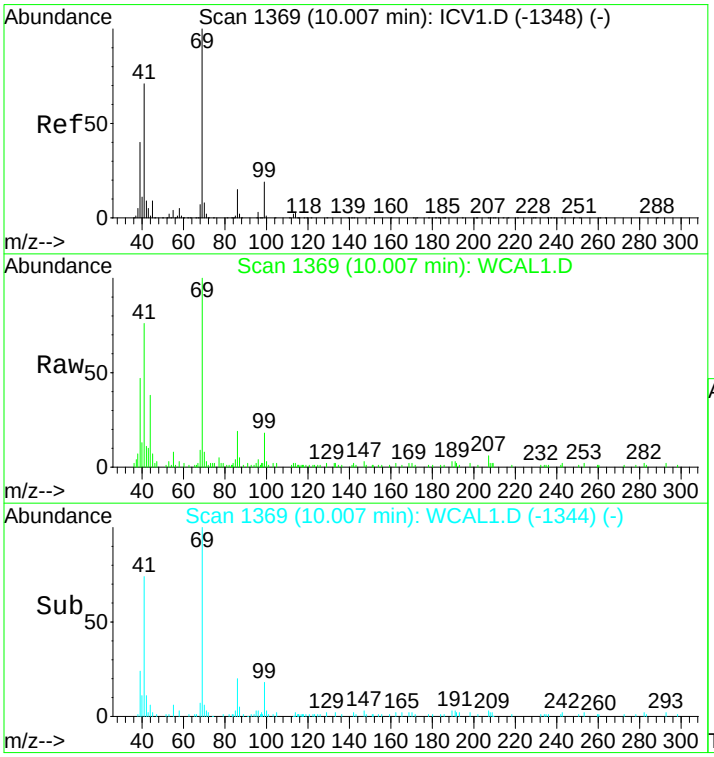


#60
4Meth2Pentan
Concen: 7.61 ug/L m
RT: 9.34 min Scan# 1260
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 257494

Ion	Ratio	Lower	Upper
43	100		
58	49.2	27.6	67.6
57	30.7	10.0	50.0

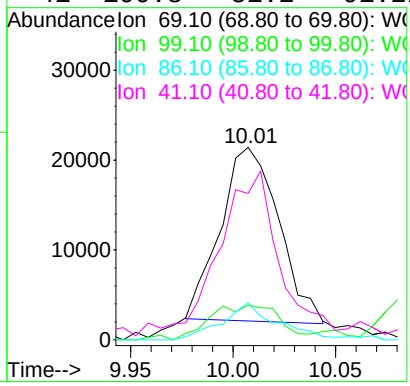




#64
ethylmethacrylate
Concen: 1.04 ug/L m
RT: 10.01 min Scan# 1369
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 69 Resp: 38297

Ion	Ratio	Lower	Upper
69	100		
99	27.5	0.0	38.1
86	21.1	0.0	36.0
41	100.8	51.2	91.2#



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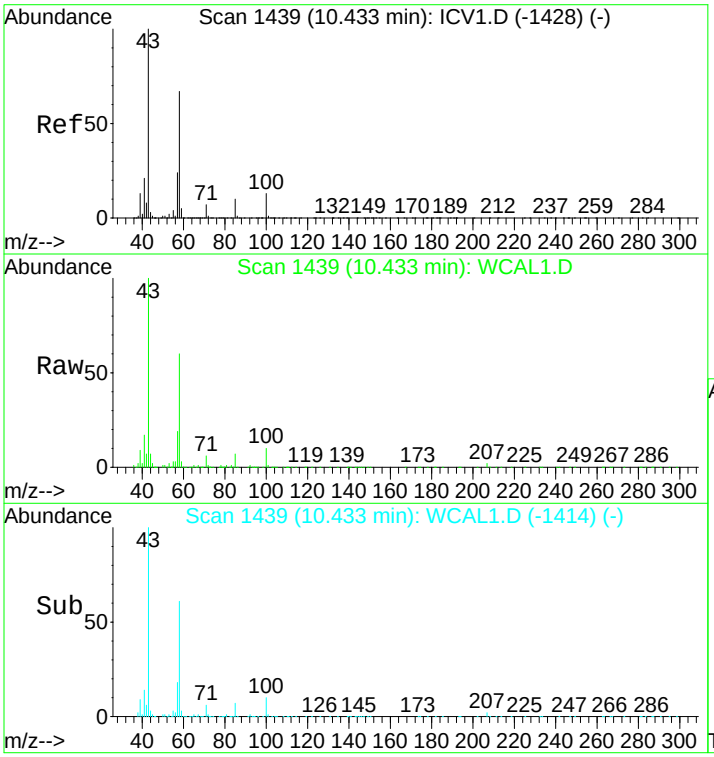
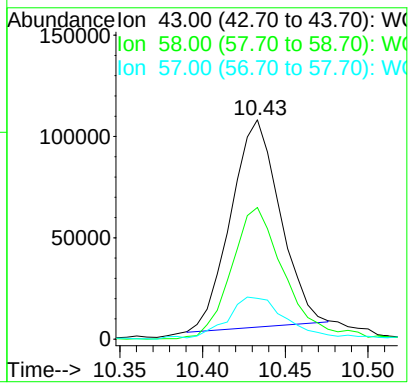
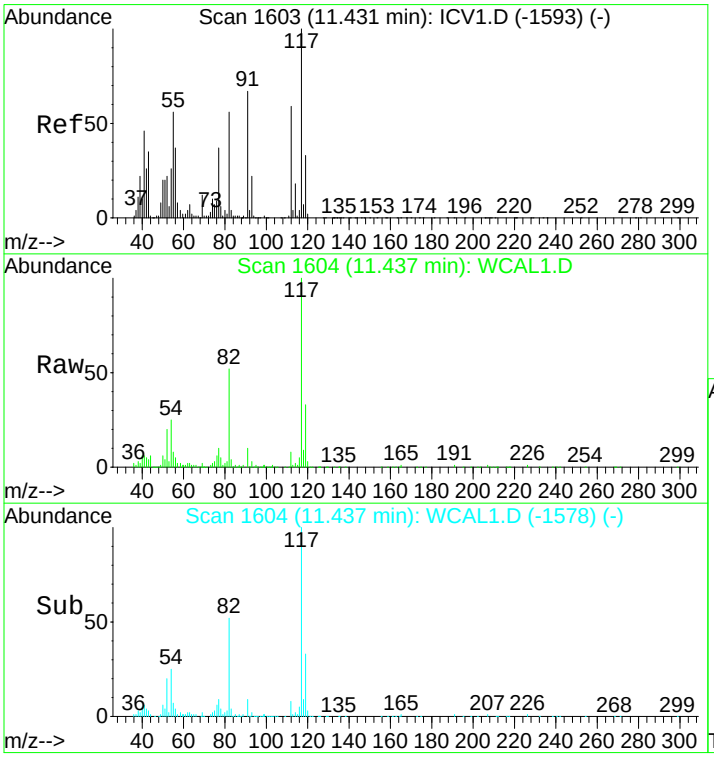


#69
2Hexanone
Concen: 7.29 ug/L m
RT: 10.43 min Scan# 1439
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 212652

Ion	Ratio	Lower	Upper
43	100		
58	70.4	44.0	84.0
57	26.2	2.8	42.8

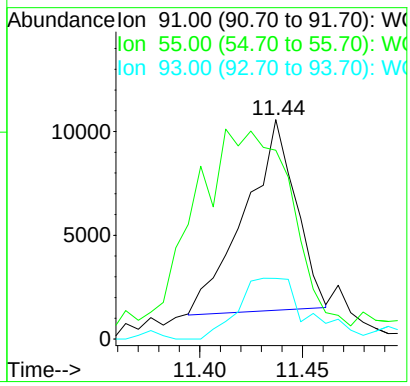




#73
1Clhexane
Concen: 0.49 ug/L m
RT: 11.44 min Scan# 1604
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 15929

Ion	Ratio	Lower	Upper
91	100		
55	222.1	66.2	106.2#
93	42.5	12.3	52.3



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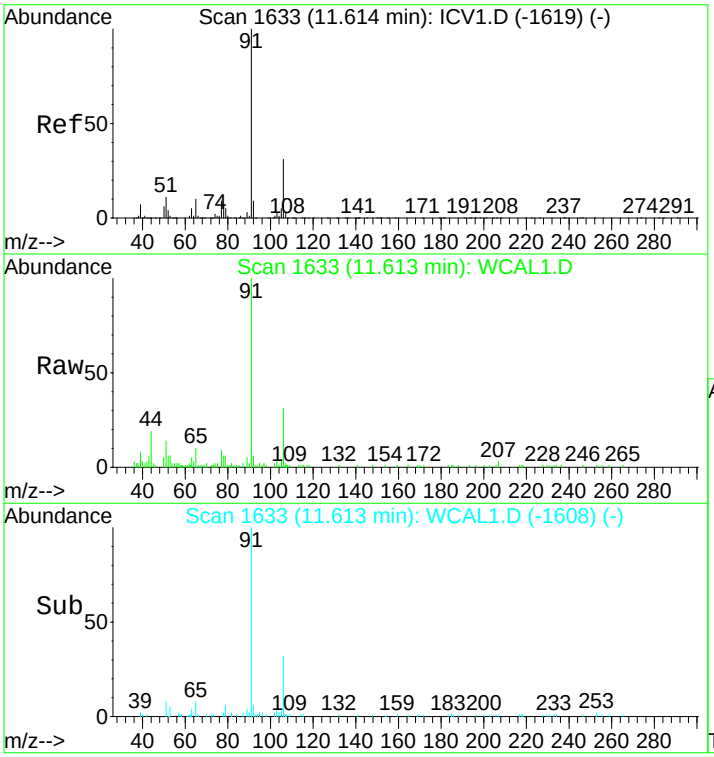
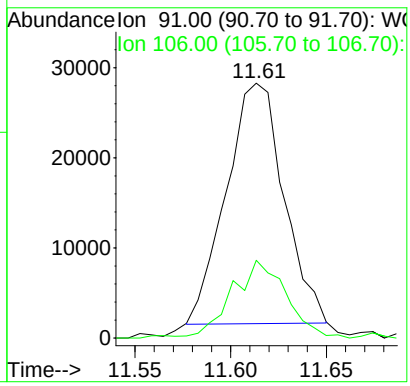
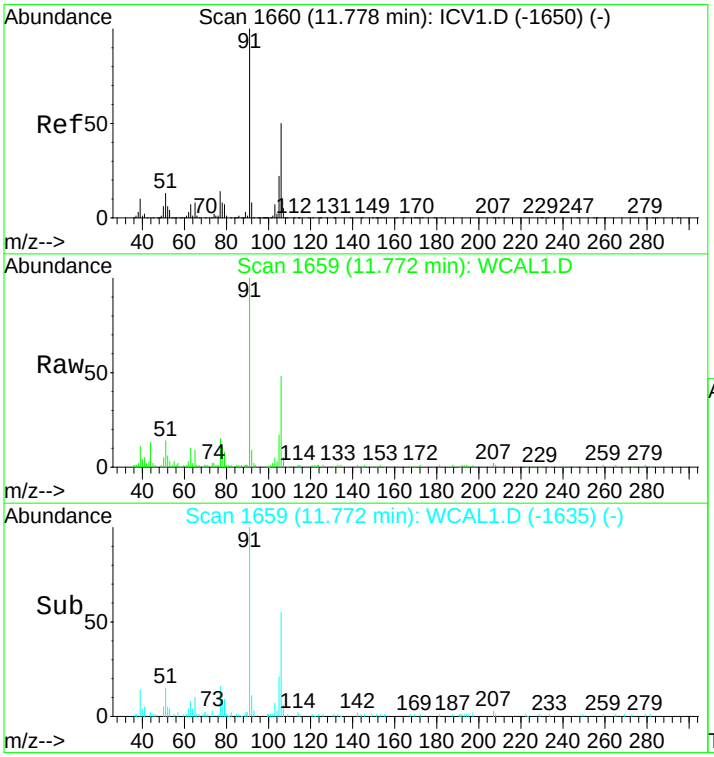


#75
Ethylbenzene
Concen: 0.58 ug/L m
RT: 11.61 min Scan# 1633
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 55910

Ion	Ratio	Lower	Upper
91	100		
106	30.9	12.2	52.2

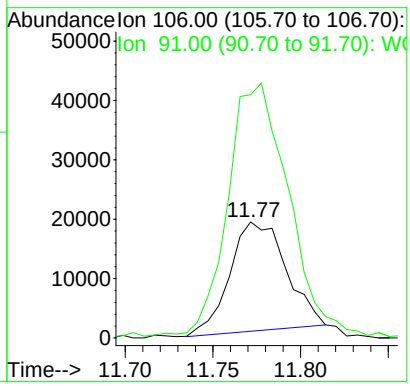




#76
m p-Xylene
Concen: 1.13 ug/L m
RT: 11.77 min Scan# 1659
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:106 Resp: 41350

Ion	Ratio	Lower	Upper
106	100		
91	255.2	179.7	219.7#



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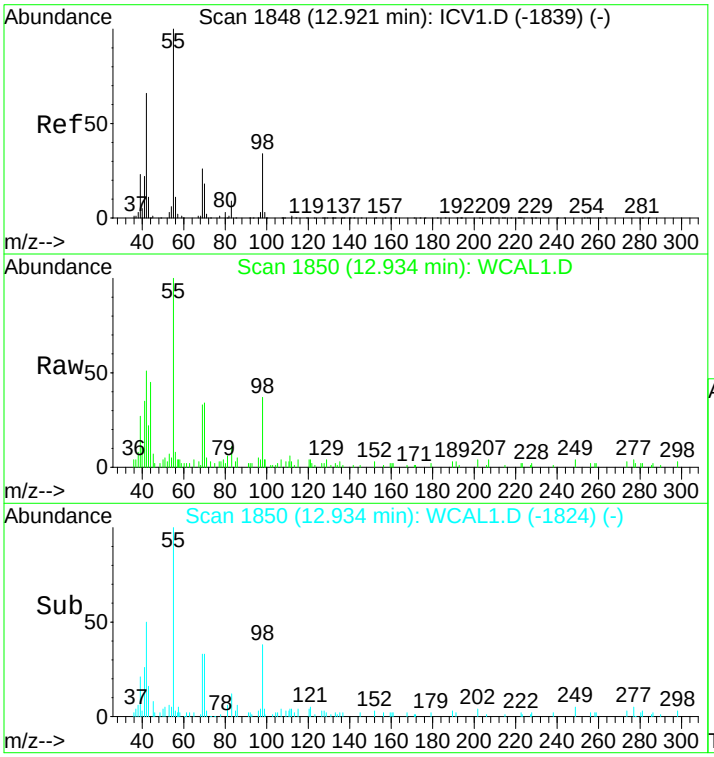
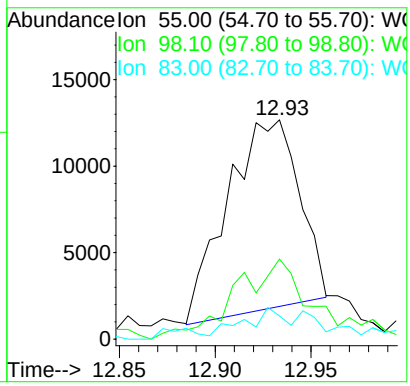
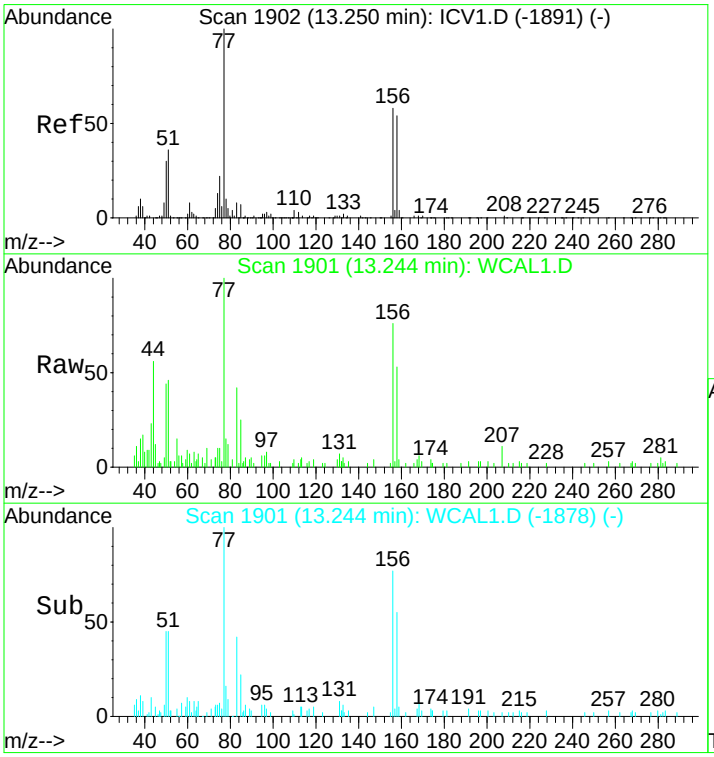


#81
cyclohexanone
Concen: 15.16 ug/L m
RT: 12.93 min Scan# 1850
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 55 Resp: 28803

Ion	Ratio	Lower	Upper
55	100		
98	47.7	18.6	58.6
83	19.2	0.0	29.1

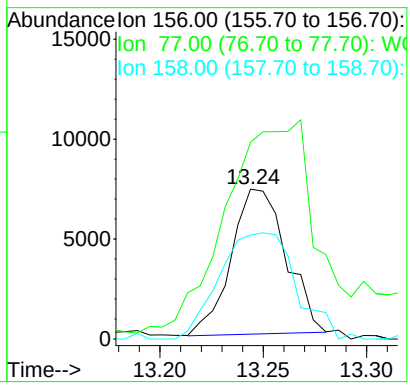




#84
Bromobenzene
Concen: 0.63 ug/L m
RT: 13.24 min Scan# 1901
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:156 Resp: 13479

Ion	Ratio	Lower	Upper
156	100		
77	266.9	213.8	253.8#
158	101.3	75.0	115.0



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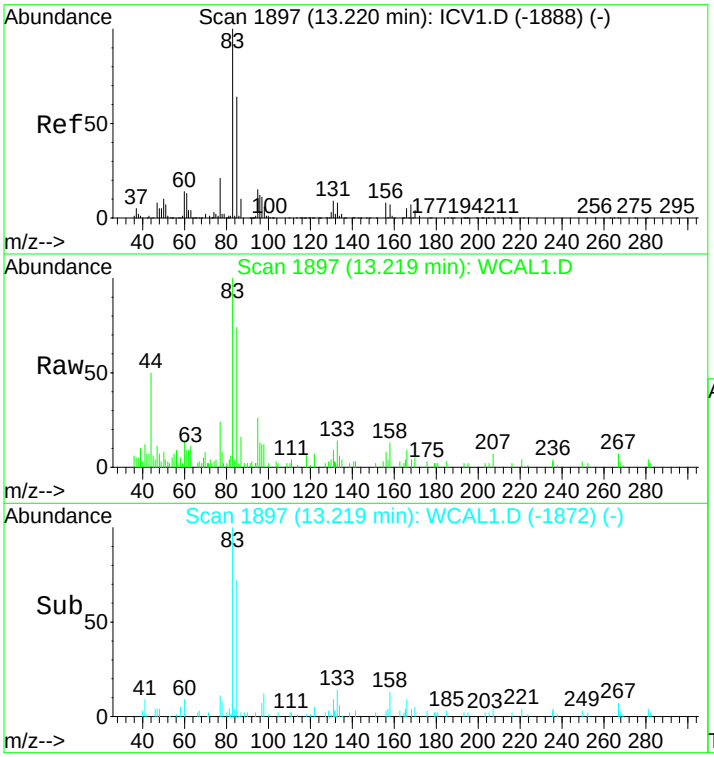
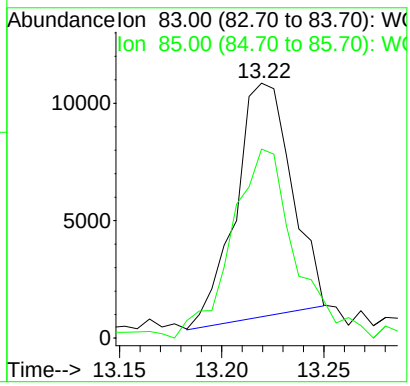
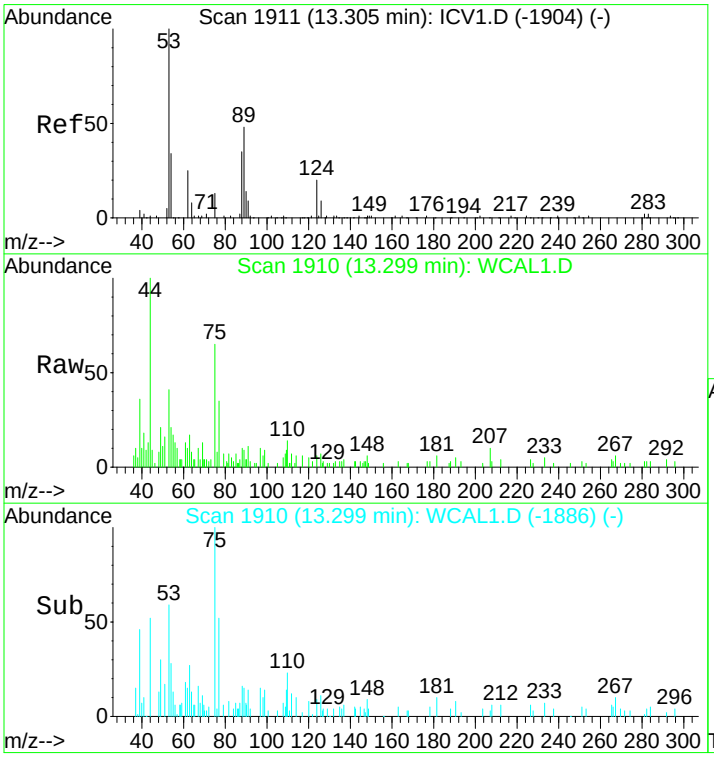


#85
1122Tetrclta
Concen: 0.55 ug/L m
RT: 13.22 min Scan# 1897
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 83 Resp: 19104

Ion	Ratio	Lower	Upper
83	100		
85	91.1	42.8	82.8#

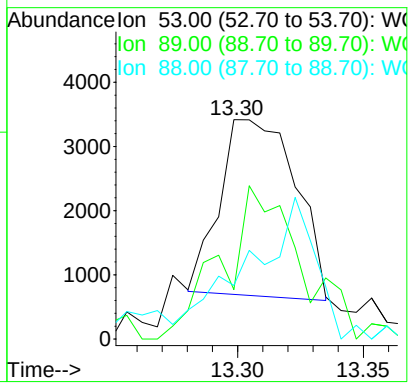




#87
14dichloro2butene
Concen: 0.47 ug/L m
RT: 13.30 min Scan# 1910
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 53 Resp: 5757

Ion	Ratio	Lower	Upper
53	100		
89	91.9	42.2	82.2#
88	74.0	24.6	64.6#



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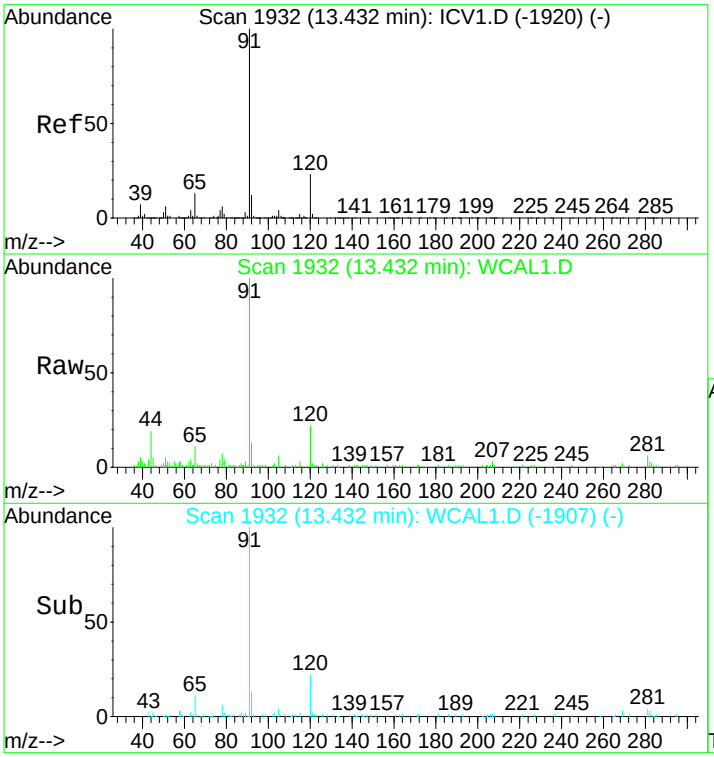
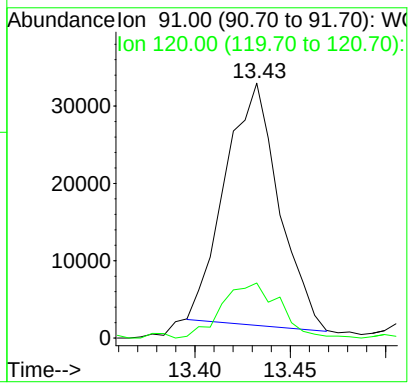
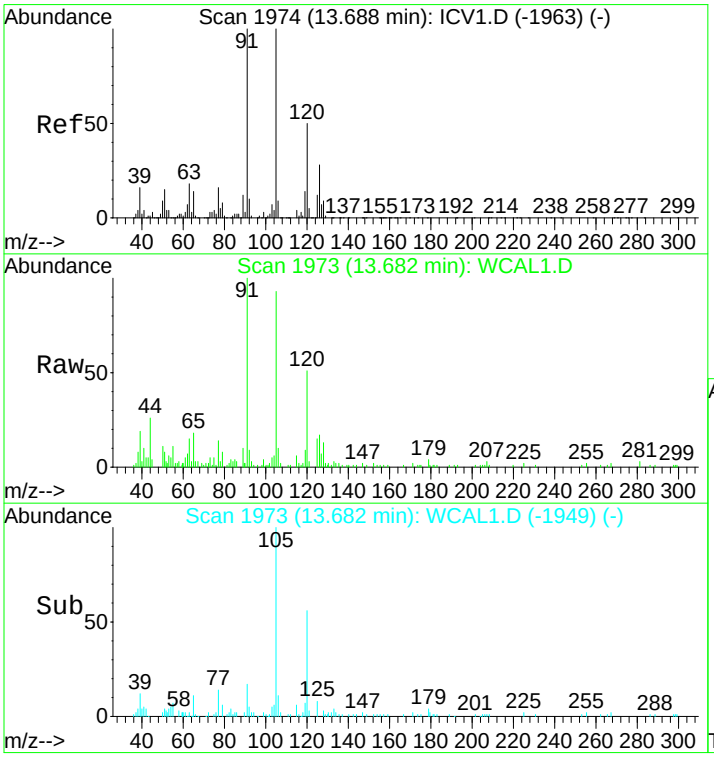


#88
n-Propylbenz
Concen: 0.59 ug/L m
RT: 13.43 min Scan# 1932
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 61203

Ion	Ratio	Lower	Upper
91	100		
120	24.6	2.6	42.6

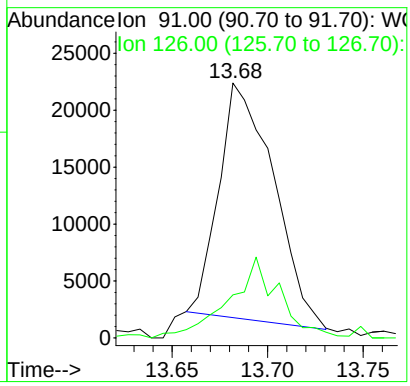




#90
4chlorotolue
Concen: 0.57 ug/L m
RT: 13.68 min Scan# 1973
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 41070

Ion	Ratio	Lower	Upper
91	100		
126	31.6	9.2	49.2



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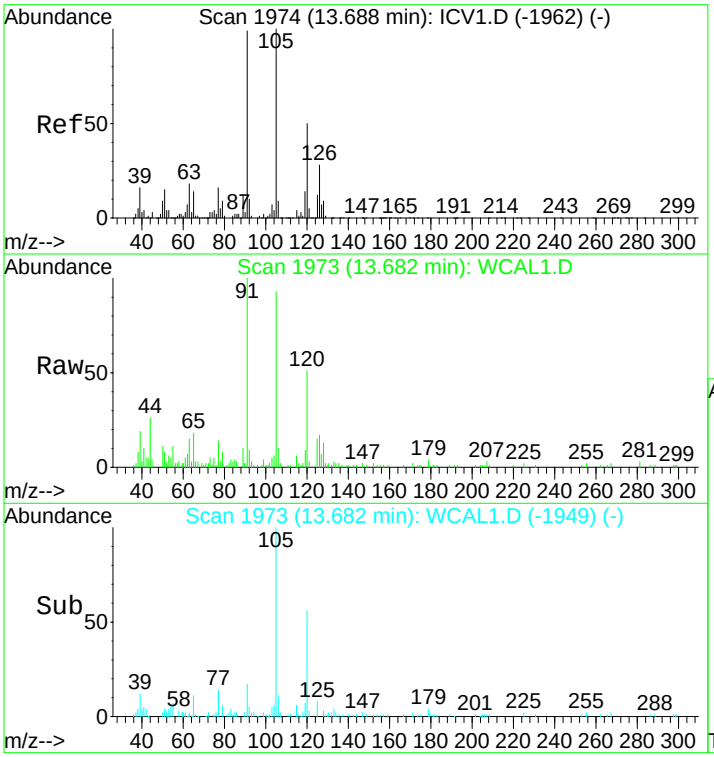
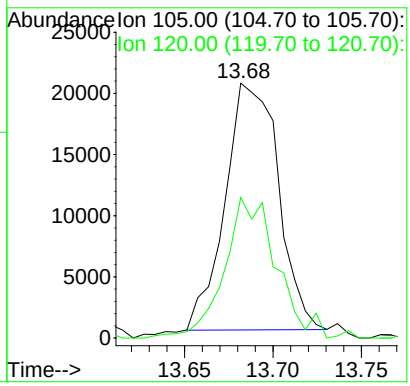
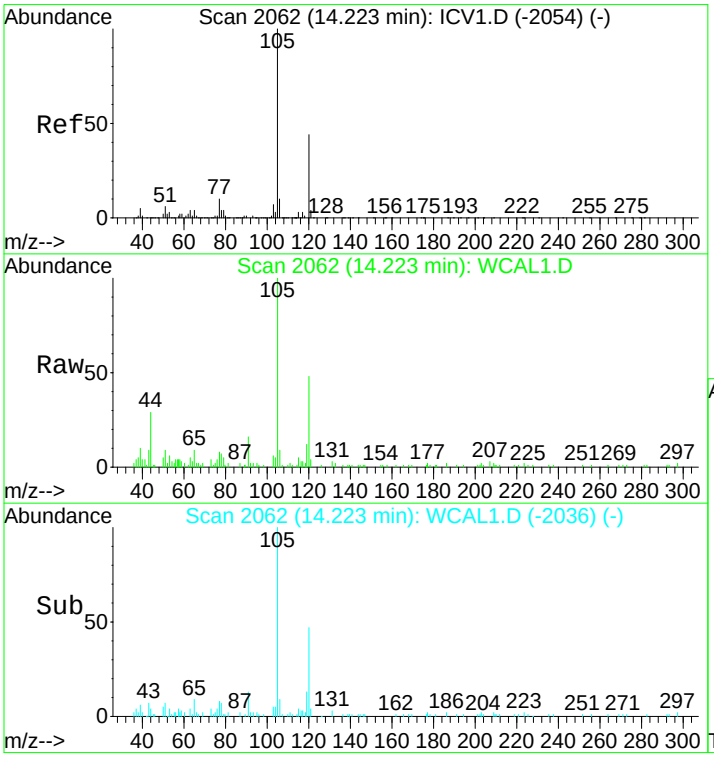


#91
135Trimebenz
Concen: 0.60 ug/L m
RT: 13.68 min Scan# 1973
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:105 Resp: 42271

Ion	Ratio	Lower	Upper
105	100		
120	55.9	28.2	68.2

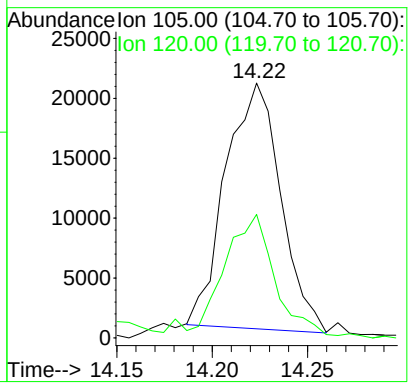




#93
124Trimetben
Concen: 0.58 ug/L m
RT: 14.22 min Scan# 2062
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:105 Resp: 41169

Ion	Ratio	Lower	Upper
105	100		
120	49.0	23.5	63.5



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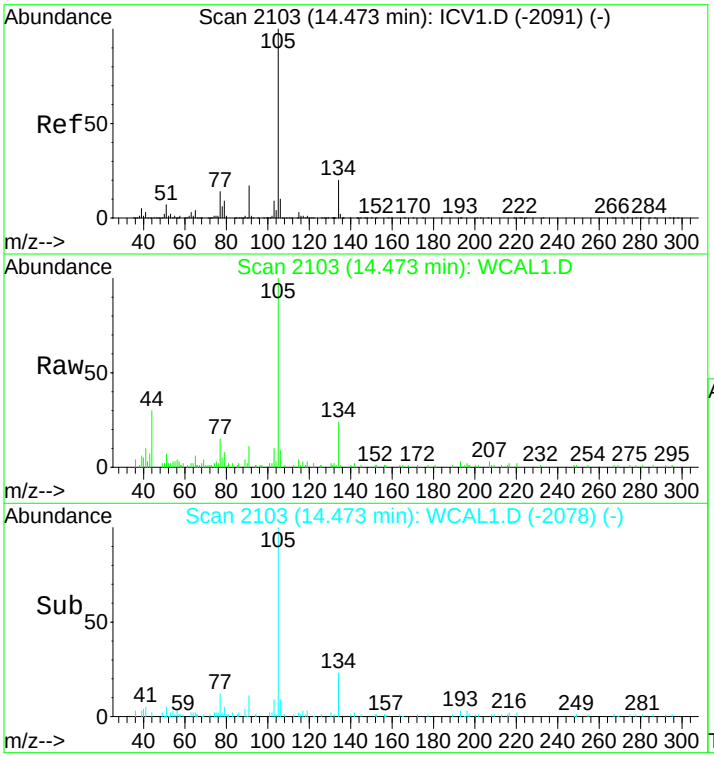
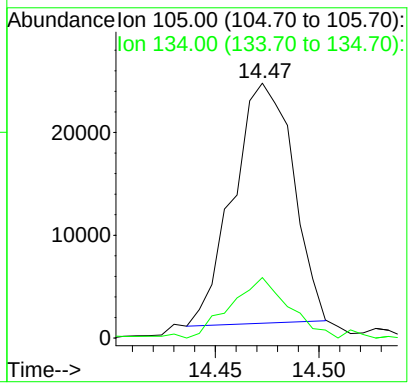
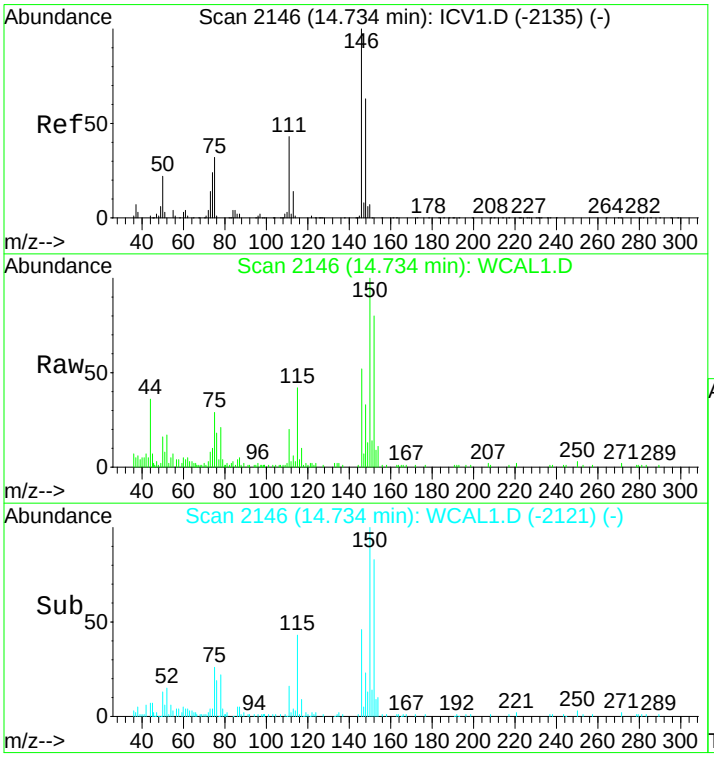


#94
sbutylbenzen
Concen: 0.55 ug/L m
RT: 14.47 min Scan# 2103
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:105 Resp: 47038

Ion	Ratio	Lower	Upper
105	100		
134	24.2	0.2	40.2

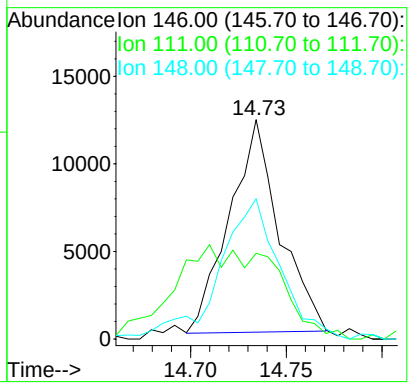




#97
14dichlorobe
Concen: 0.60 ug/L m
RT: 14.73 min Scan# 2146
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:146 Resp: 22092

Ion	Ratio	Lower	Upper
146	100		
111	90.3	24.3	64.3#
148	80.3	42.1	82.1



RJ 10/19/2016

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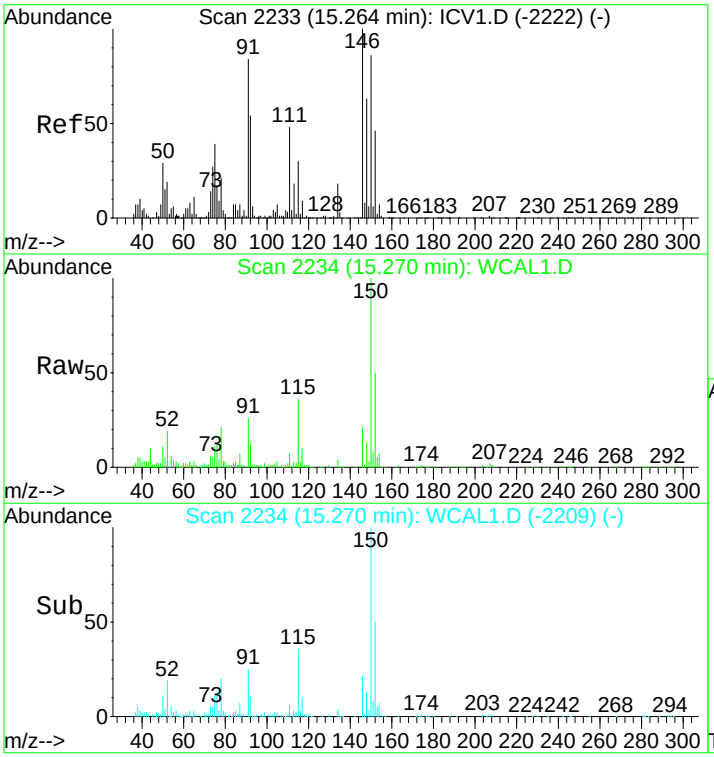
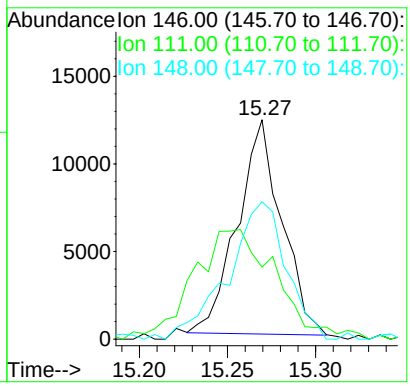
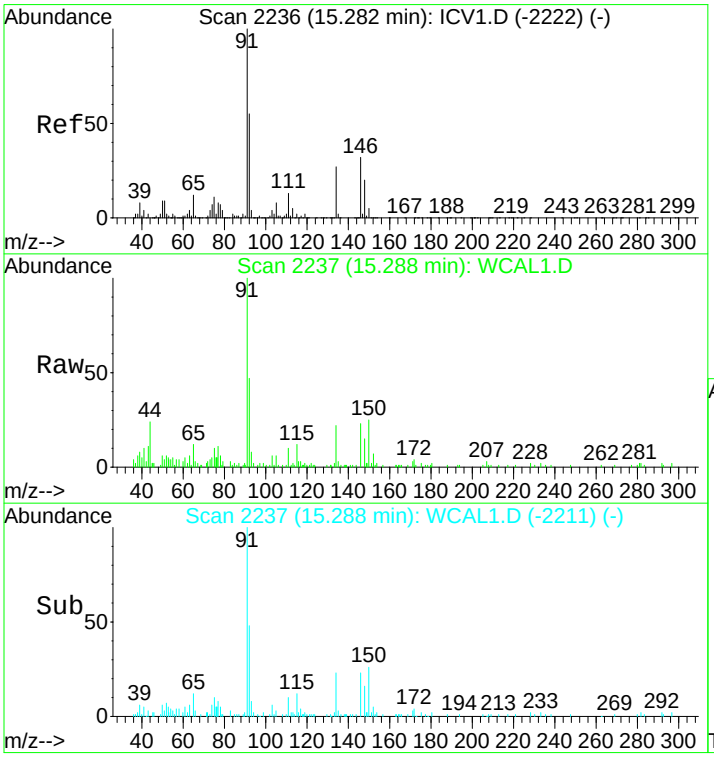


#98
12dichlorobe
Concen: 0.61 ug/L m
RT: 15.27 min Scan# 2234
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:146 Resp: 21388

Ion	Ratio	Lower	Upper
146	100		
111	95.7	29.1	69.1#
148	84.3	46.0	86.0

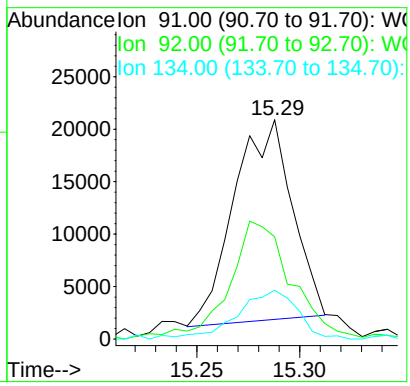




#99
nButylbenzen
Concen: 0.55 ug/L m
RT: 15.29 min Scan# 2237
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 37636

Ion	Ratio	Lower	Upper
91	100		
92	64.4	33.4	73.4
134	25.3	4.7	44.7



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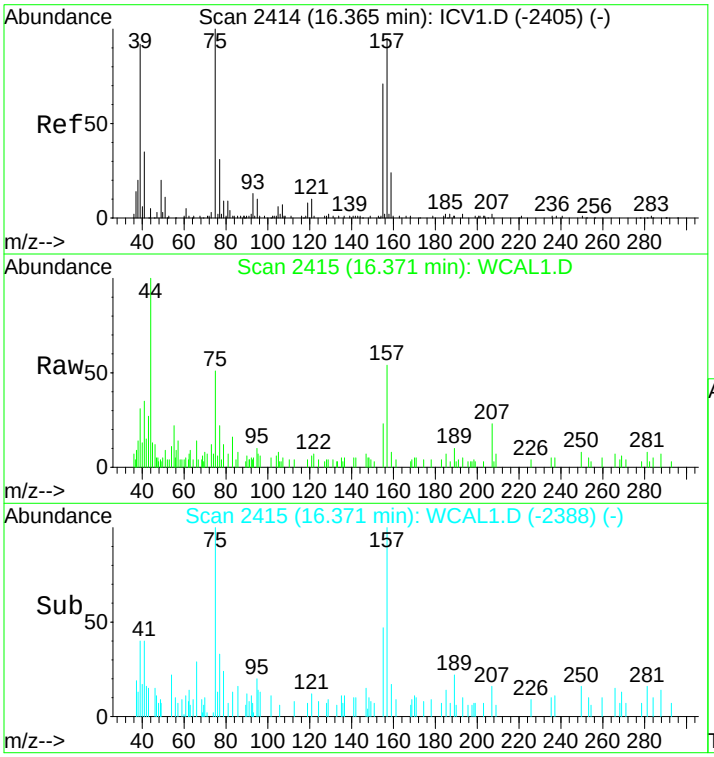
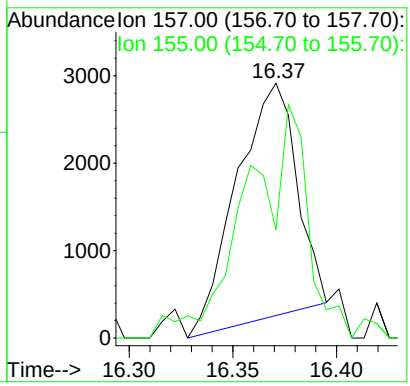
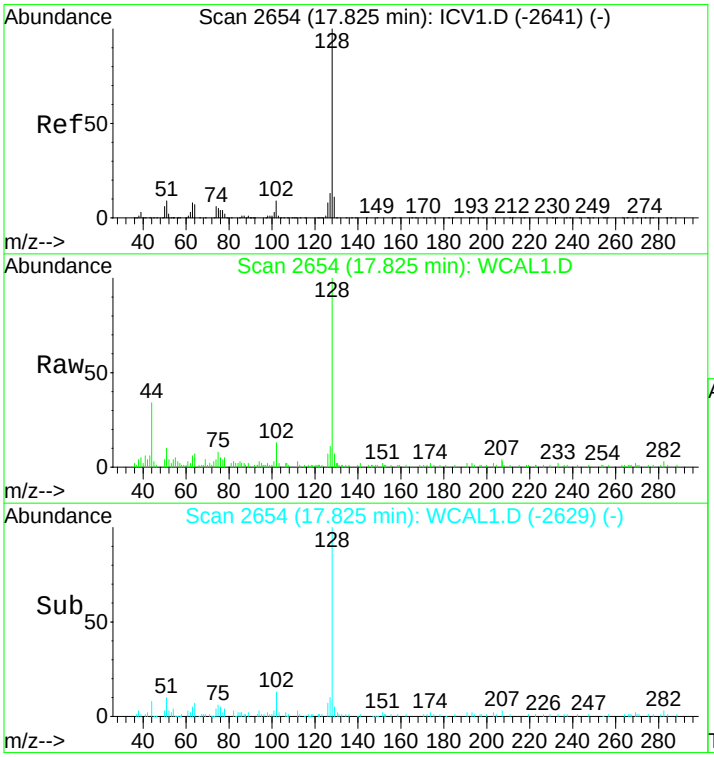


#100
12dibromo3cl
Concen: 0.59 ug/L m
RT: 16.37 min Scan# 2415
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:157 Resp: 5459

Ion	Ratio	Lower	Upper
157	100		
155	102.9	57.2	97.2#

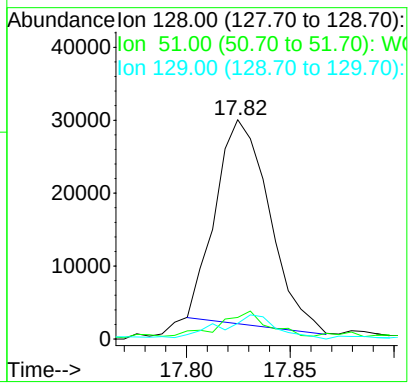




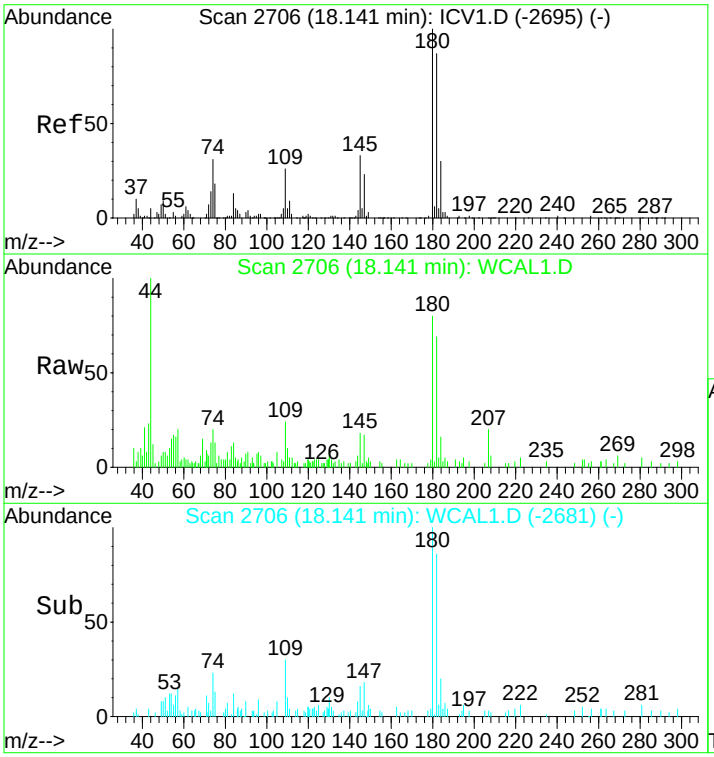
#104
Naphthalene
Concen: 0.62 ug/L m
RT: 17.82 min Scan# 2654
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:128 Resp: 50375

Ion	Ratio	Lower	Upper
128	100		
51	10.5	0.0	29.8
129	12.3	0.0	31.6



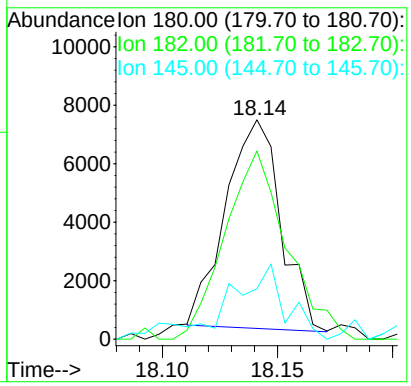
RJ 10/19/2016



#105
123Trichlben
Concen: 0.58 ug/L m
RT: 18.14 min Scan# 2706
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:180 Resp: 11927

Ion	Ratio	Lower	Upper
180	100		
182	100.9	75.2	115.2
145	33.0	12.4	52.4

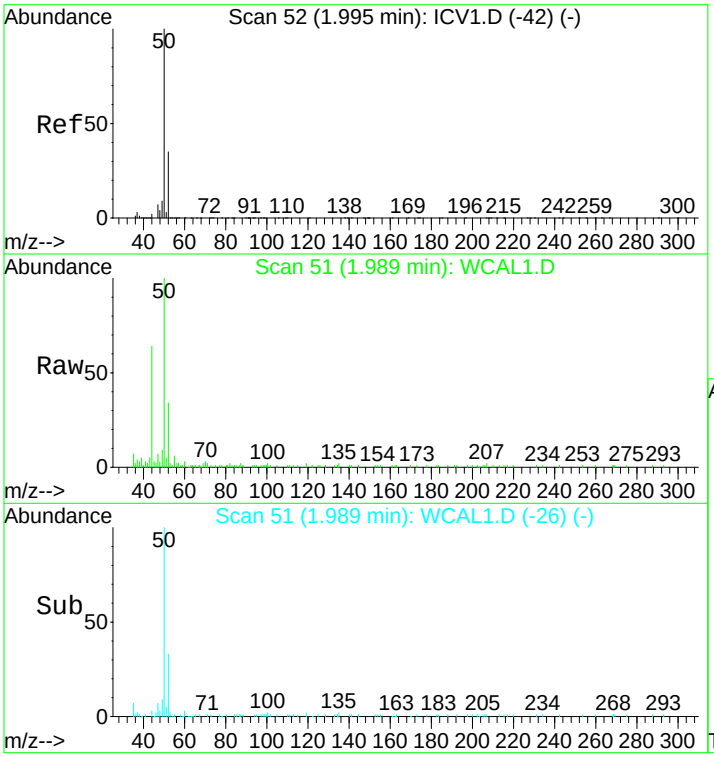


After Manual Integration
AGK 10/19/16

RJ 10/19/2016

Before Manual Integration

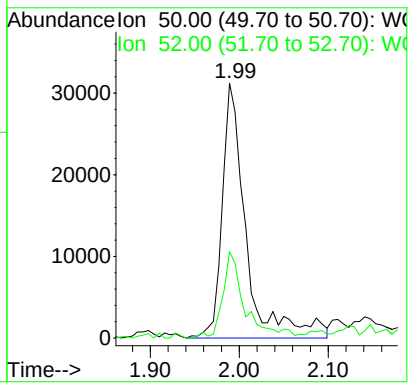
AGK 10/19/16



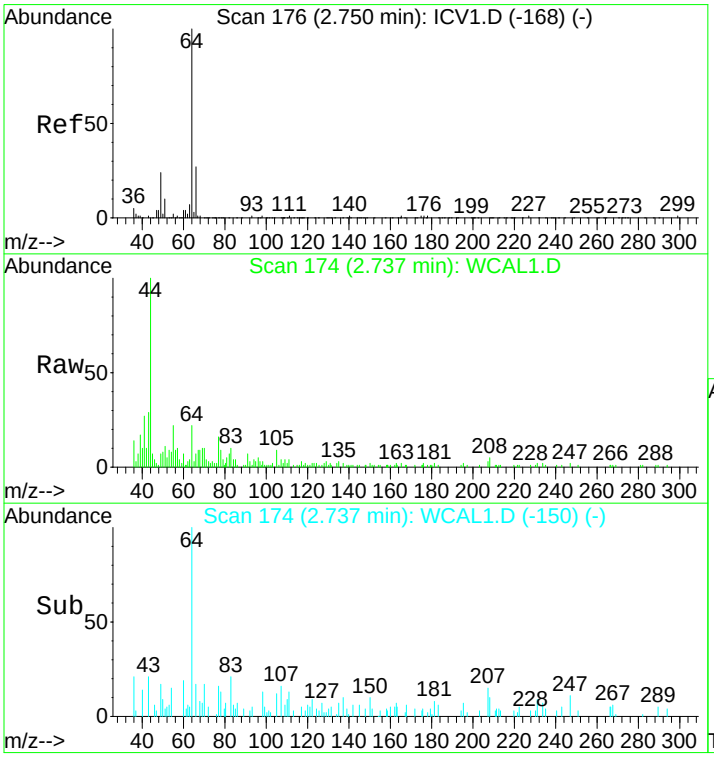
#3
Chloromethan
Concen: 1.13 ug/L
RT: 1.99 min Scan# 51
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 50 Resp: 58239

Ion	Ratio	Lower	Upper
50	100		
52	31.8	13.4	53.4



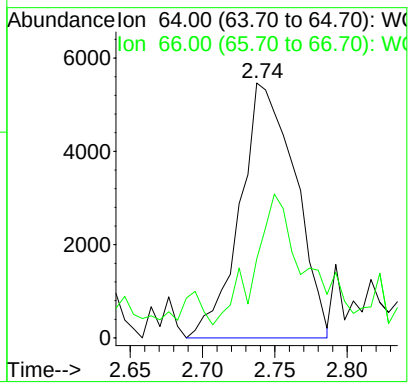
REASON # 2



#6
Chloroethane
Concen: 0.75 ug/L
RT: 2.74 min Scan# 174
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 64 Resp: 14502

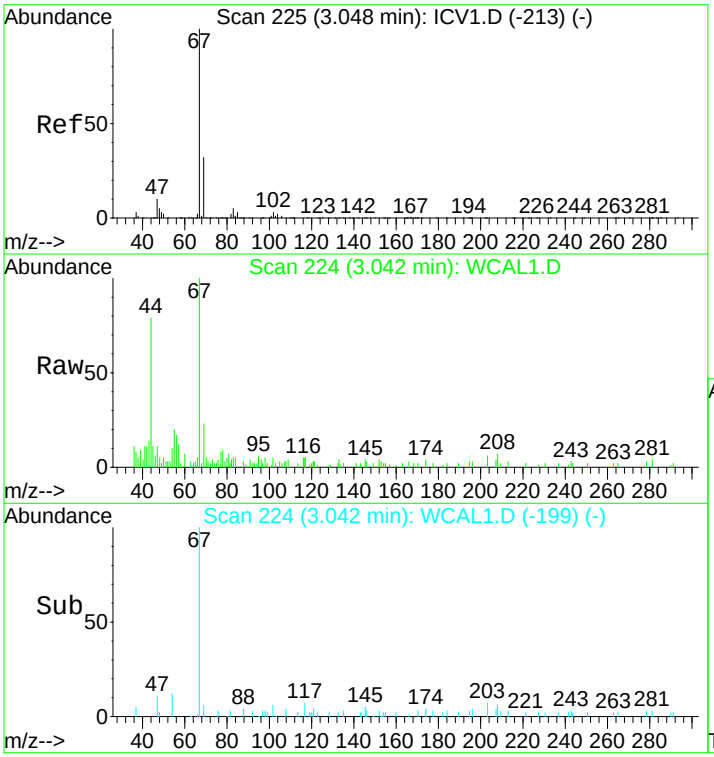
Ion	Ratio	Lower	Upper
64	100		
66	47.0	13.4	53.4



REASON # 2

Before Manual Integration

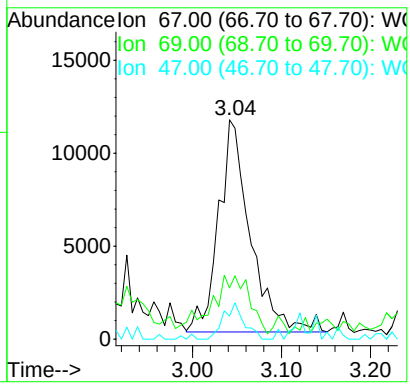
AGK 10/19/16



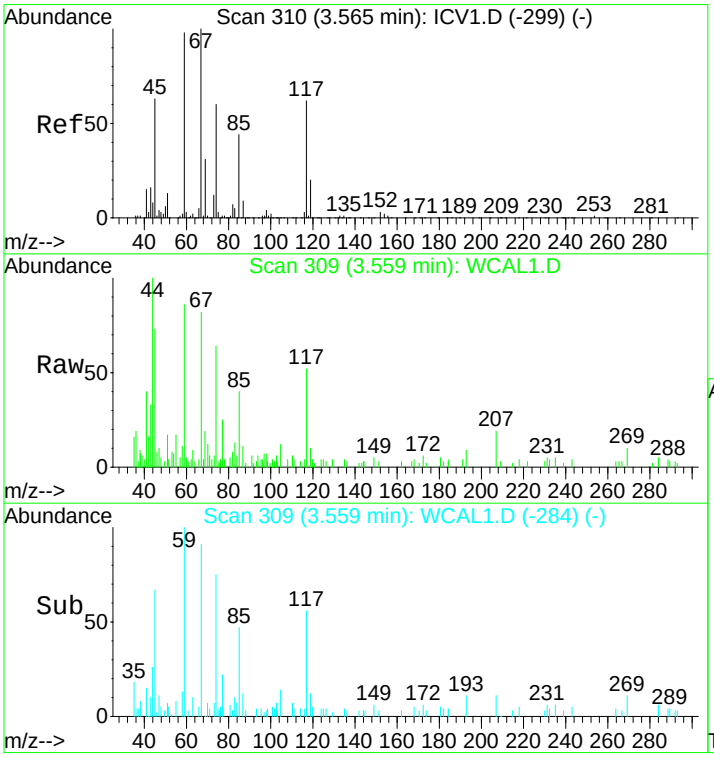
#7
Dichloroflmethane
Concen: 0.75 ug/L
RT: 3.04 min Scan# 224
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 67 Resp: 28384

Ion	Ratio	Lower	Upper
67	100		
69	28.0	14.1	54.1
47	10.8	0.0	31.5



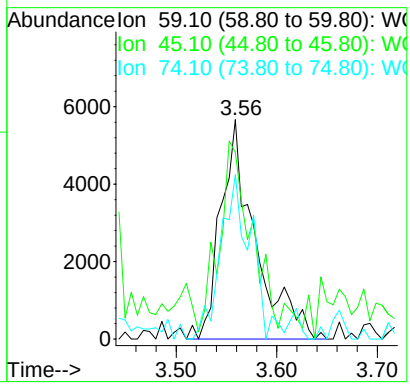
REASON # 2



#9
Ethylether
Concen: 0.65 ug/L
RT: 3.56 min Scan# 309
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 59 Resp: 13558

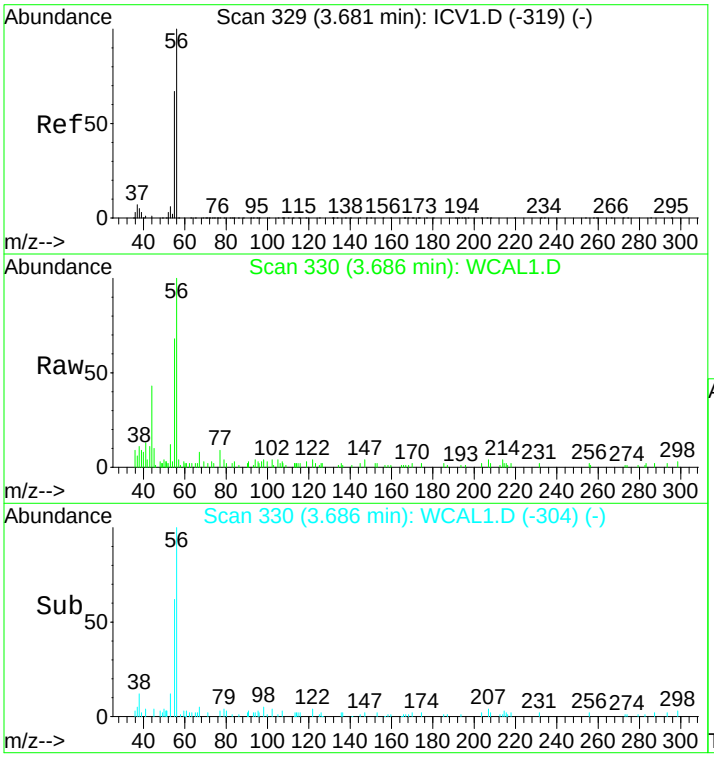
Ion	Ratio	Lower	Upper
59	100		
45	78.7	44.4	84.4
74	66.5	45.2	85.2



REASON # 2

Before Manual Integration

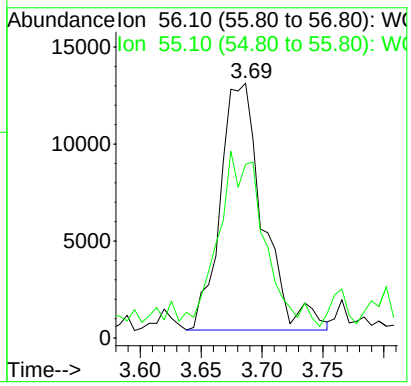
AGK 10/19/16



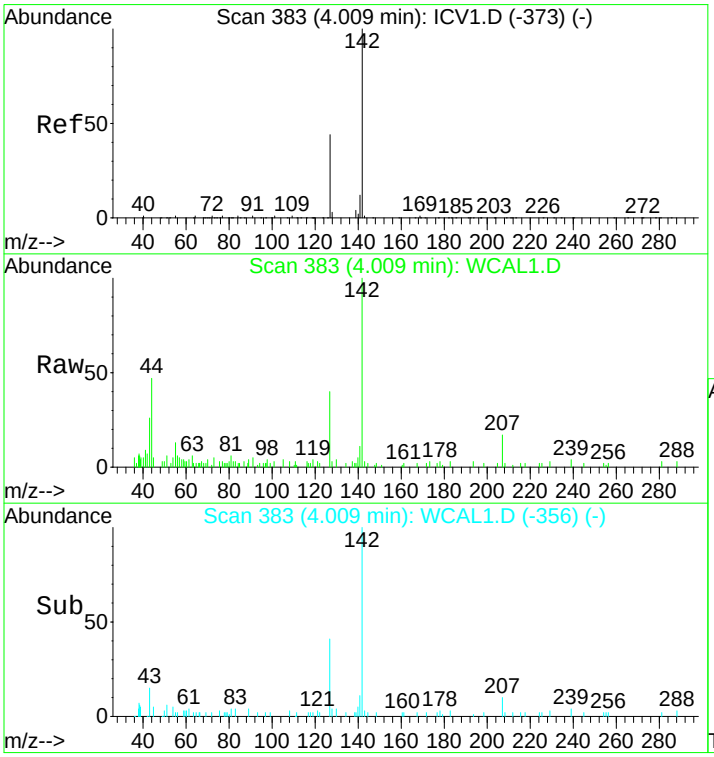
#12
Acrolein
Concen: 3.17 ug/L
RT: 3.69 min Scan# 330
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 56 Resp: 31108

Ion	Ratio	Lower	Upper
56	100		
55	73.8	50.5	90.5



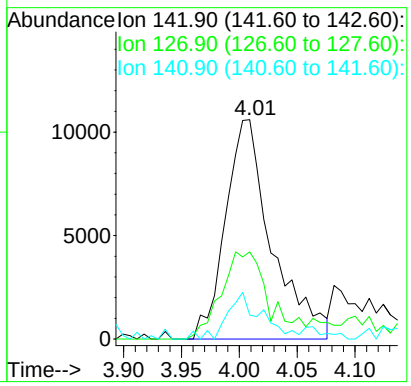
REASON # 2



#16
Iodomethane
Concen: 2.71 ug/L
RT: 4.01 min Scan# 383
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:142 Resp: 29403

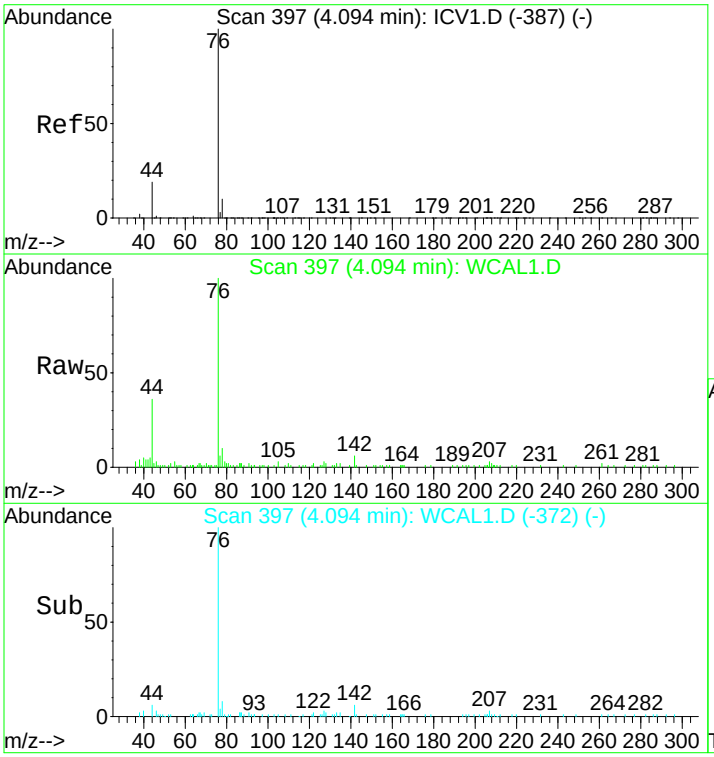
Ion	Ratio	Lower	Upper
142	100		
127	52.7	21.4	61.4
141	15.4	0.0	33.5



REASON # 2

Before Manual Integration

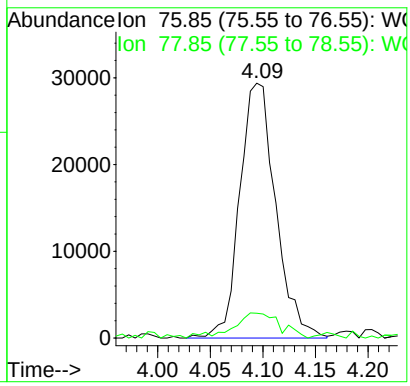
AGK 10/19/16



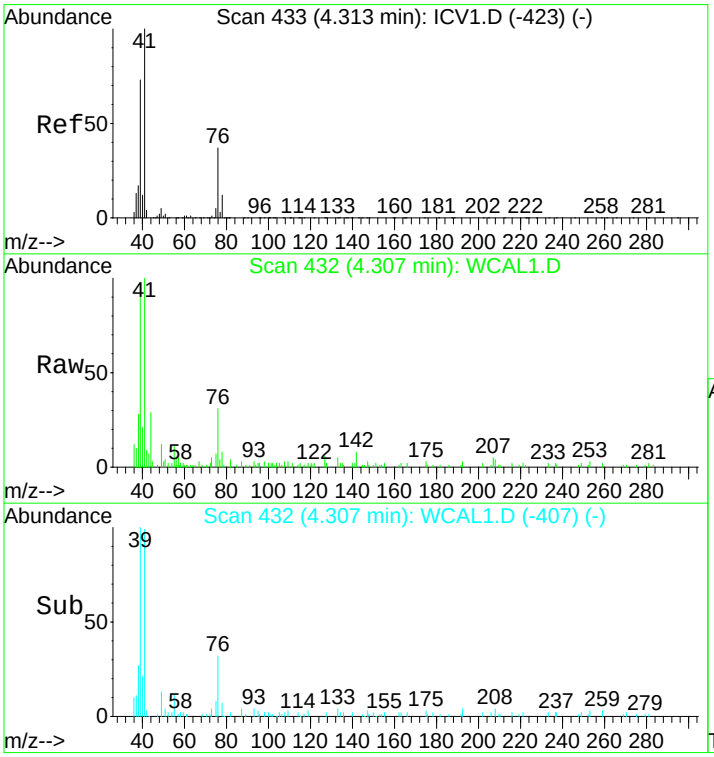
#17
Carbon Dislf
Concen: 1.38 ug/L
RT: 4.09 min Scan# 397
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 76 Resp: 69968

Ion	Ratio	Lower	Upper
76	100		
78	11.9	0.0	29.3



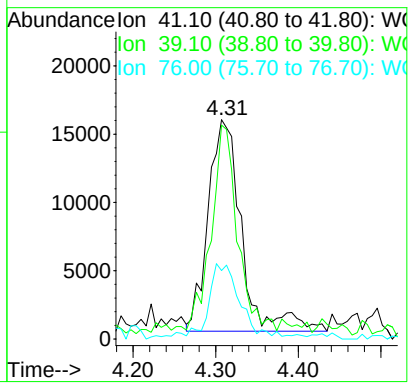
REASON # 2



#18
allylchloride
Concen: 1.78 ug/L
RT: 4.31 min Scan# 432
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 41 Resp: 43471

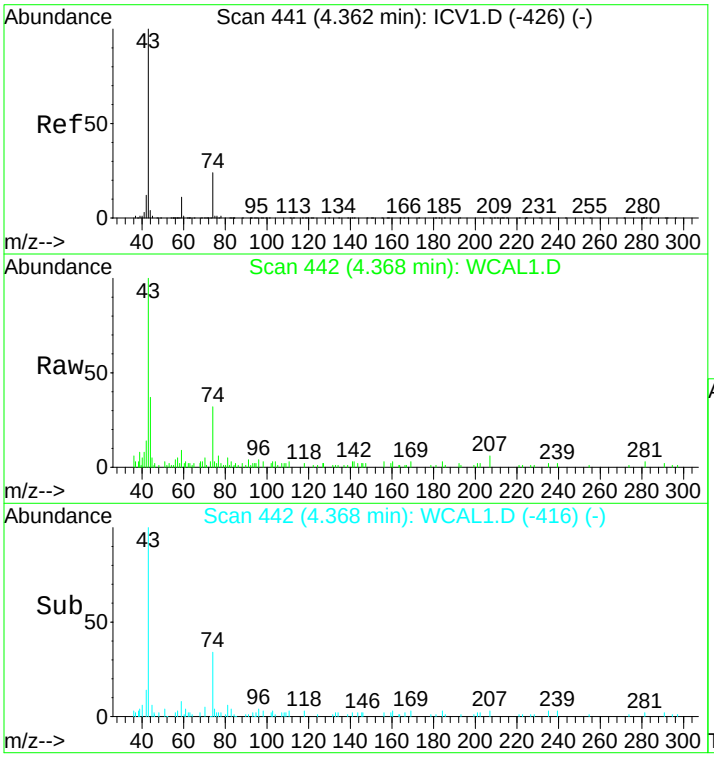
Ion	Ratio	Lower	Upper
41	100		
39	75.8	52.2	92.2
76	31.8	15.4	55.4



REASON # 2

Before Manual Integration

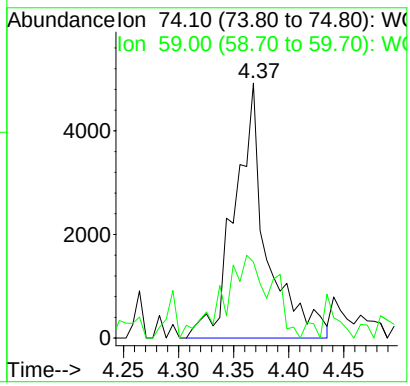
AGK 10/19/16



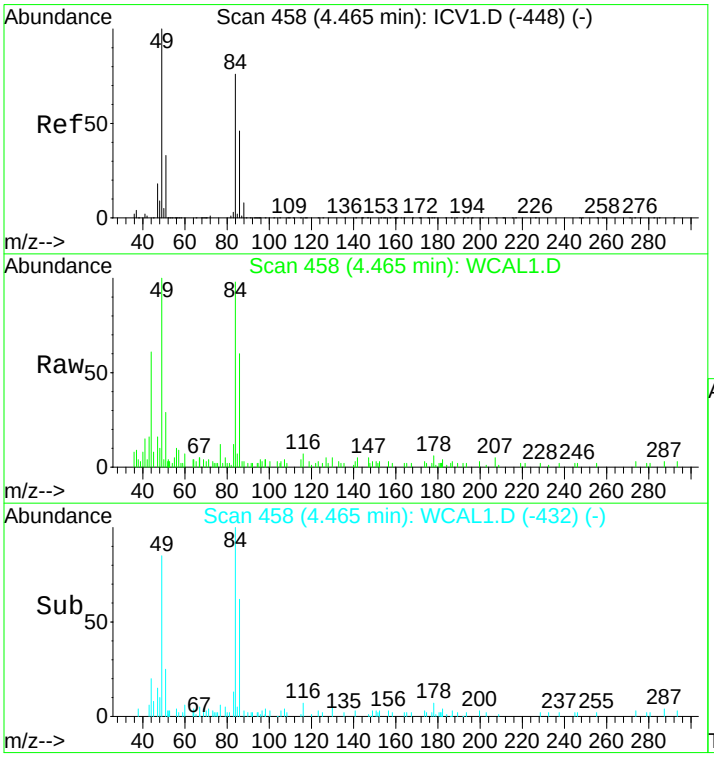
#19
methylacetate
Concen: 0.81 ug/L
RT: 4.37 min Scan# 442
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 74 Resp: 9906

Ion	Ratio	Lower	Upper
74	100		
59	46.8	19.9	59.9



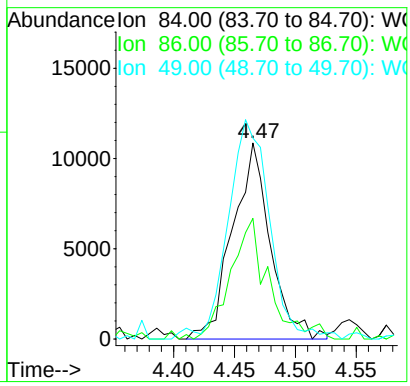
REASON # 2



#20
Methylchlorid
Concen: 0.69 ug/L
RT: 4.47 min Scan# 458
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 84 Resp: 23444

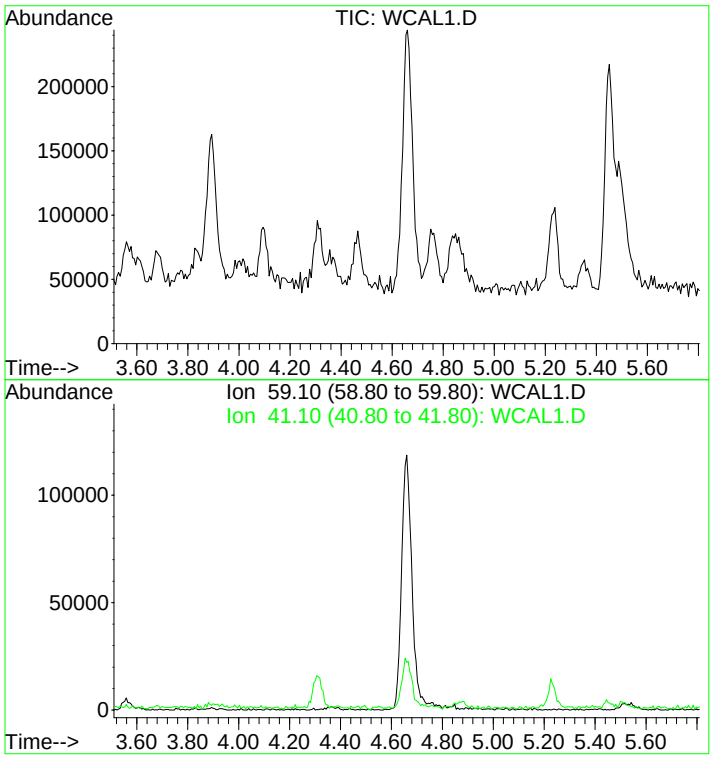
Ion	Ratio	Lower	Upper
84	100		
86	61.9	48.9	88.9
49	123.2	117.5	157.5



REASON # 2

Before Manual Integration

AGK 10/19/16



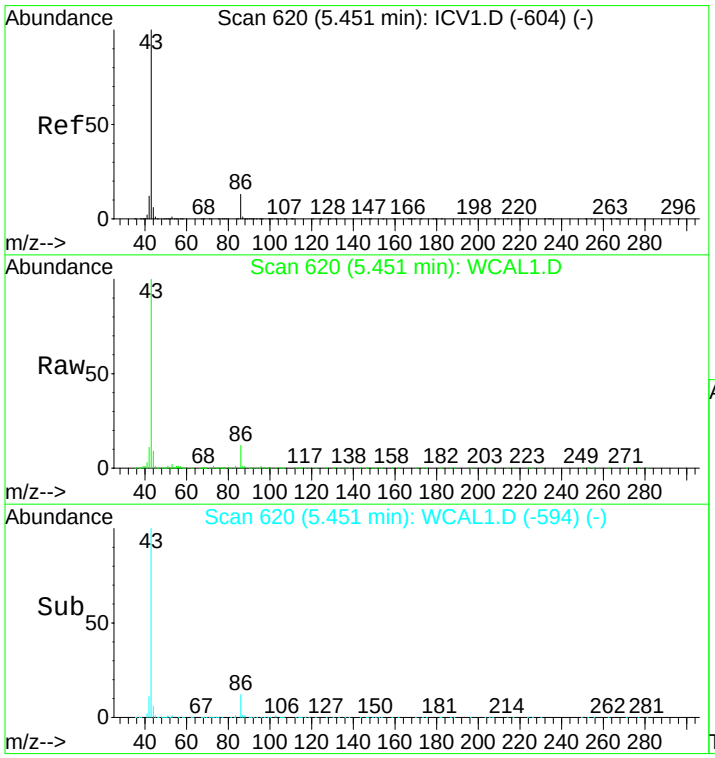
#21
tbutylalcohol
Concen: Below Cal
Expected RT: 4.66 min

Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 59

Sig	Exp Ratio
59	100
41	19.8

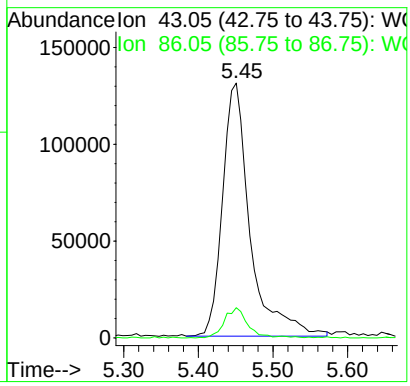
REASON # 1



#27
Vinylacetate
Concen: 0.82 ug/L
RT: 5.45 min Scan# 620
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 335928

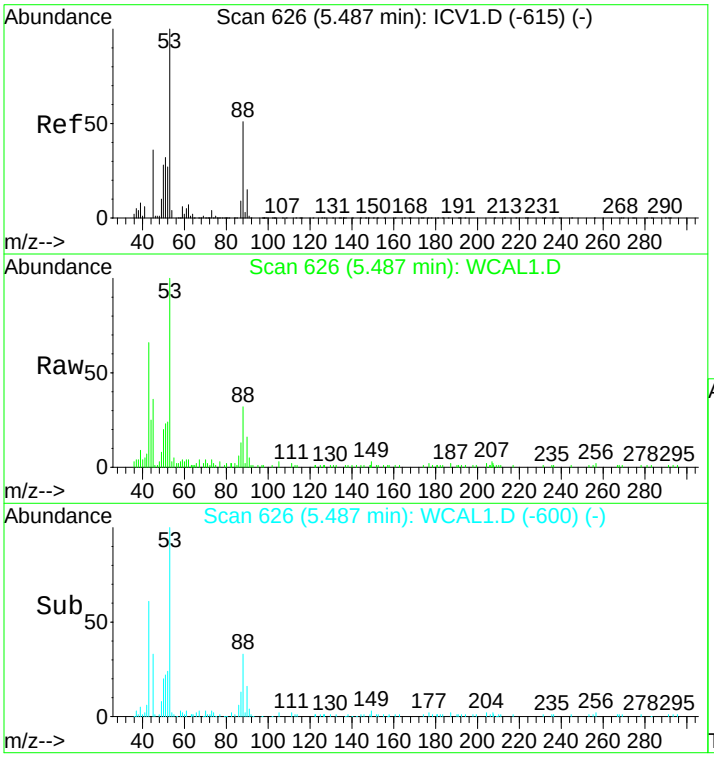
Ion	Ratio	Lower	Upper
43	100		
86	10.4	0.0	31.2



REASON # 2

Before Manual Integration

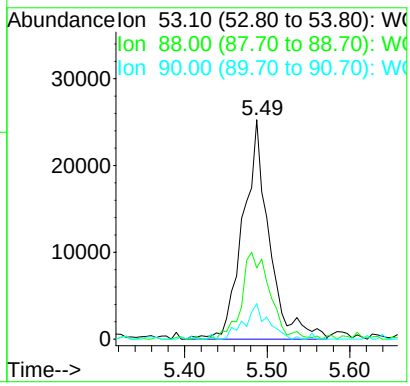
AGK 10/19/16



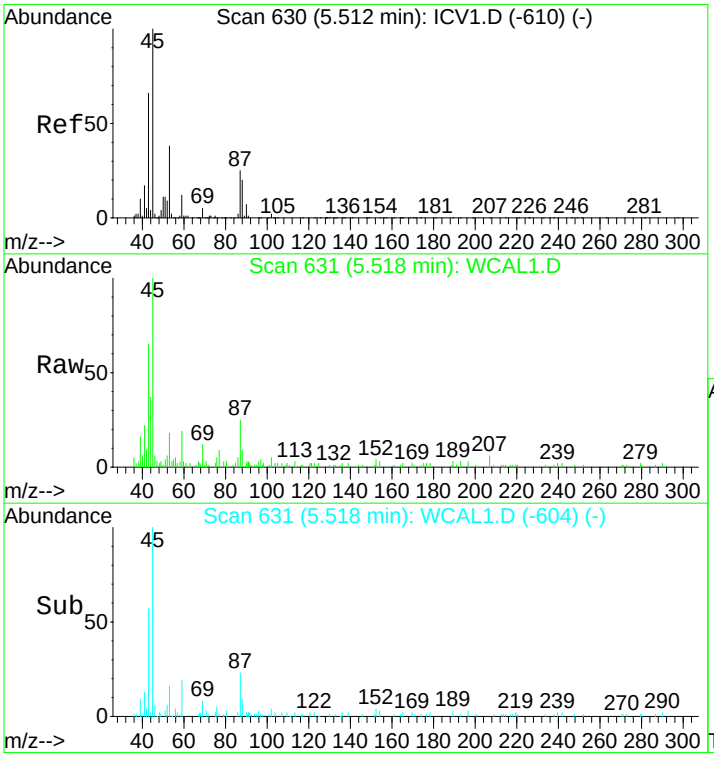
#28
chloroprene
Concen: 1.44 ug/L
RT: 5.49 min Scan# 626
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 53 Resp: 55472

Ion	Ratio	Lower	Upper
53	100		
88	43.2	32.6	72.6
90	14.5	0.0	35.9



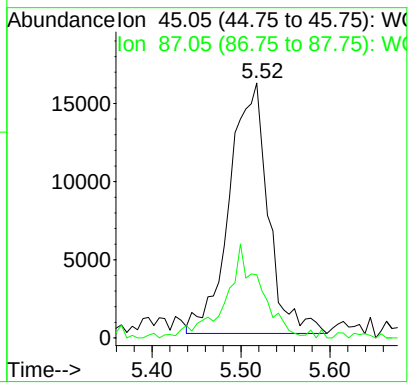
REASON # 2



#29
Diisopether
Concen: 0.69 ug/L
RT: 5.52 min Scan# 631
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 45 Resp: 48537

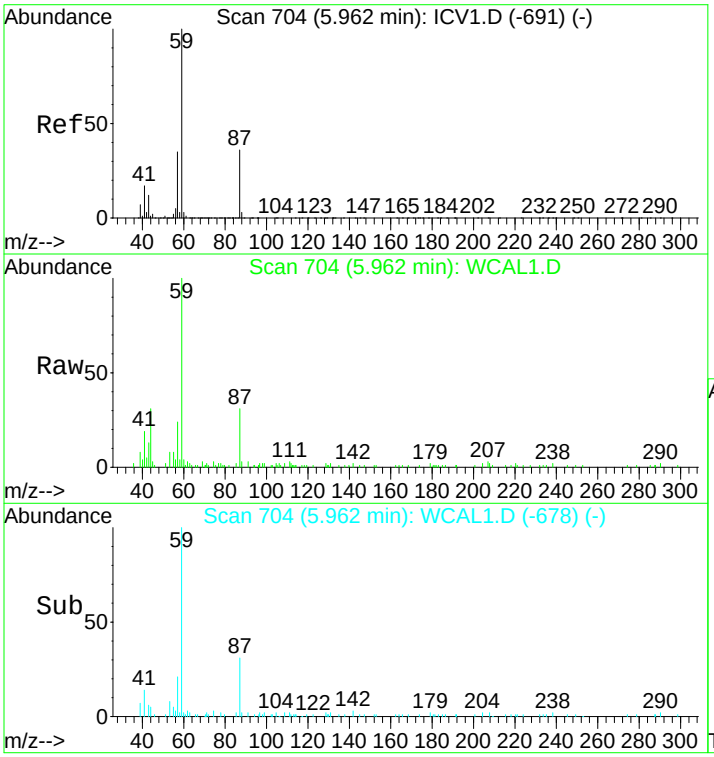
Ion	Ratio	Lower	Upper
45	100		
87	34.2	10.8	50.8



REASON # 2

Before Manual Integration

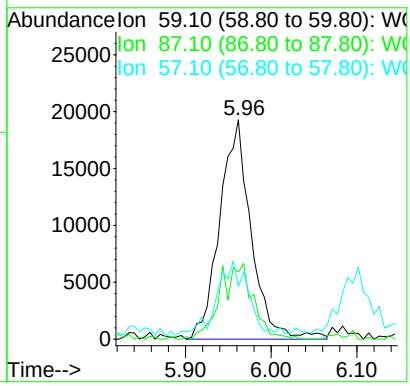
AGK 10/19/16



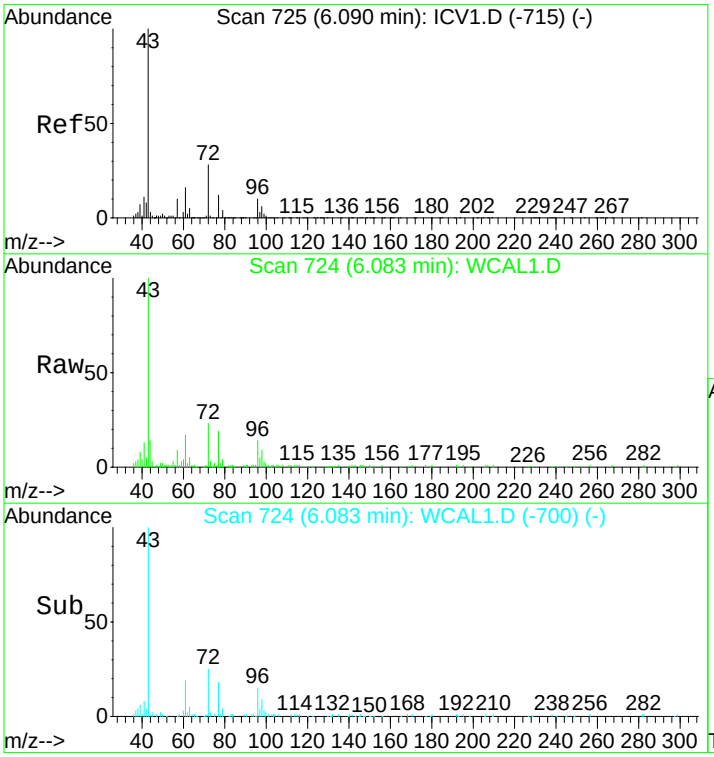
#30
ETBE
Concen: 0.69 ug/L
RT: 5.96 min Scan# 704
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 59 Resp: 49204

Ion	Ratio	Lower	Upper
59	100		
87	36.4	16.4	56.4
57	33.6	12.3	52.3



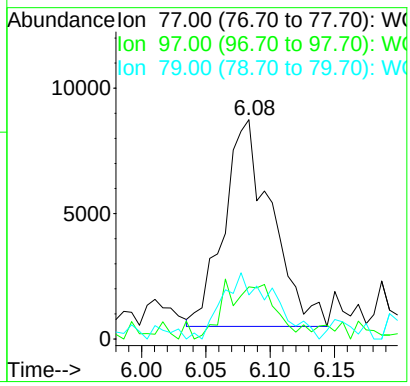
REASON # 2



#31
22dichloropr
Concen: 0.70 ug/L
RT: 6.08 min Scan# 724
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 77 Resp: 21286

Ion	Ratio	Lower	Upper
77	100		
97	32.7	2.3	42.3
79	34.3	12.2	52.2



REASON # 2

Before Manual Integration

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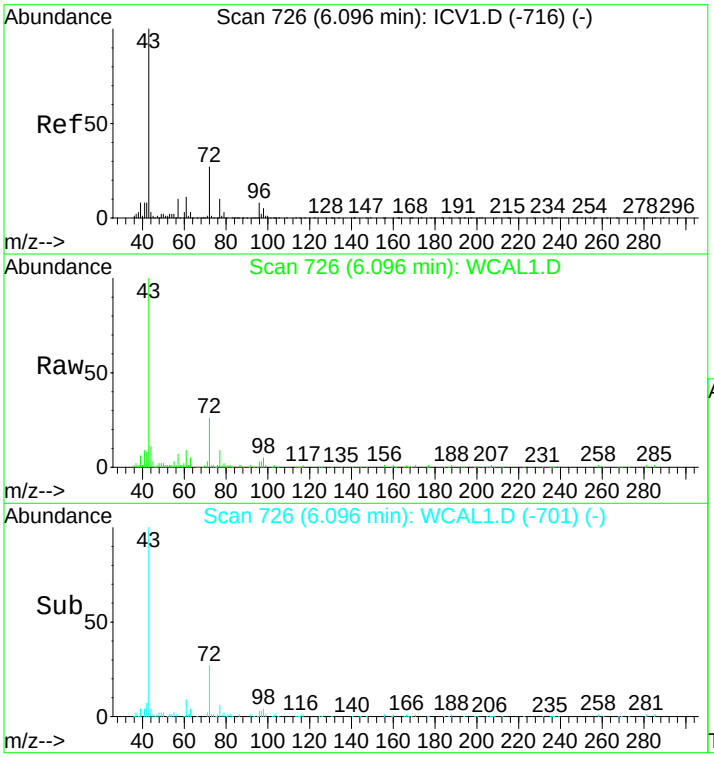
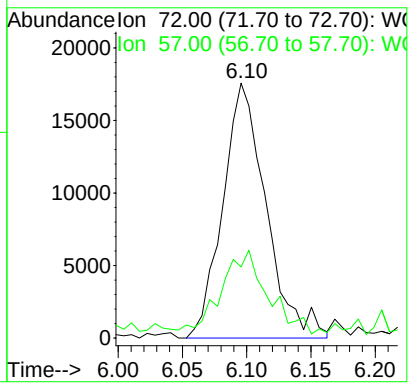


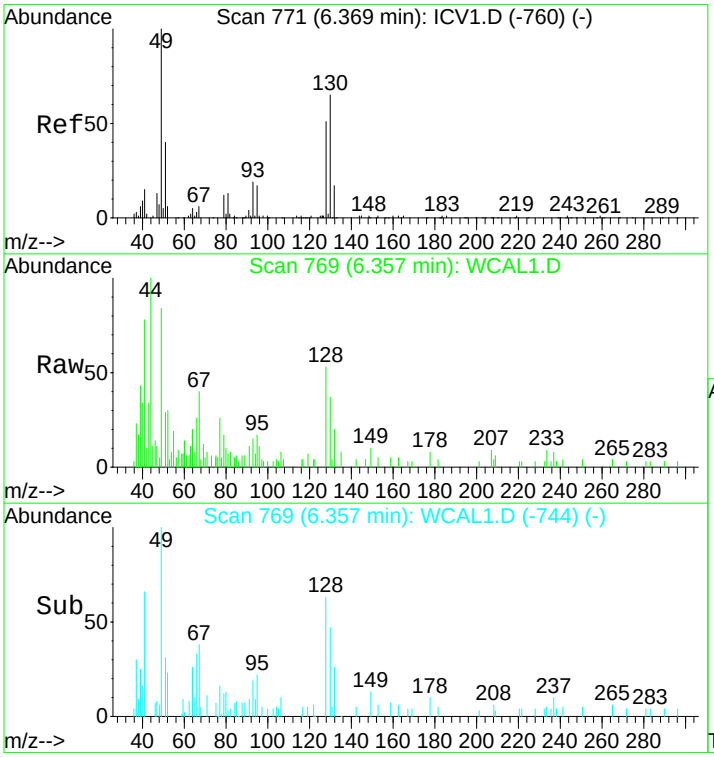
#33
2Butanone
Concen: 7.11 ug/L
RT: 6.10 min Scan# 726
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 72 Resp: 41236

Ion	Ratio	Lower	Upper
72	100		
57	33.9	14.1	54.1



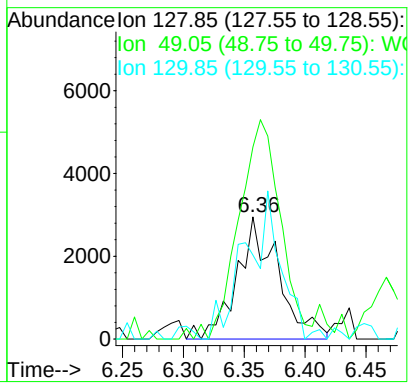
REASON # 2



#37
Bromochlorma
Concen: 0.83 ug/L
RT: 6.36 min Scan# 769
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:128 Resp: 6970

Ion	Ratio	Lower	Upper
128	100		
49	179.7	176.0	216.0
130	105.2	103.7	143.7



REASON # 2

Before Manual Integration

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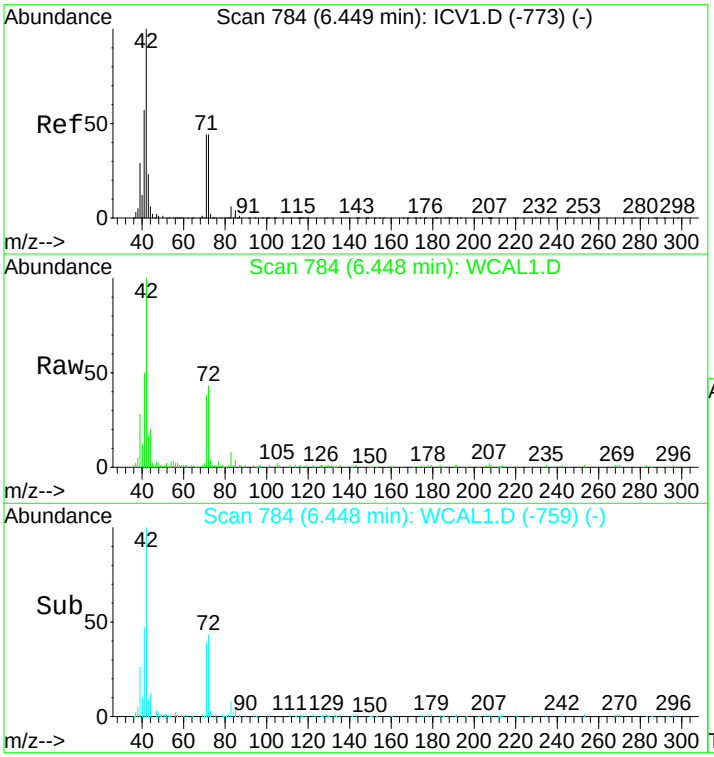
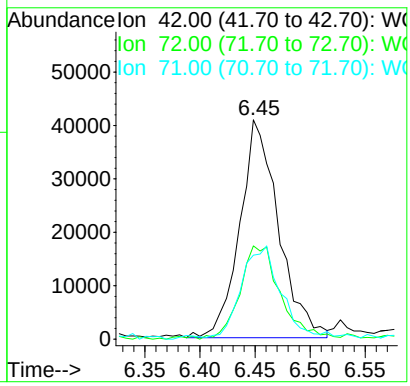


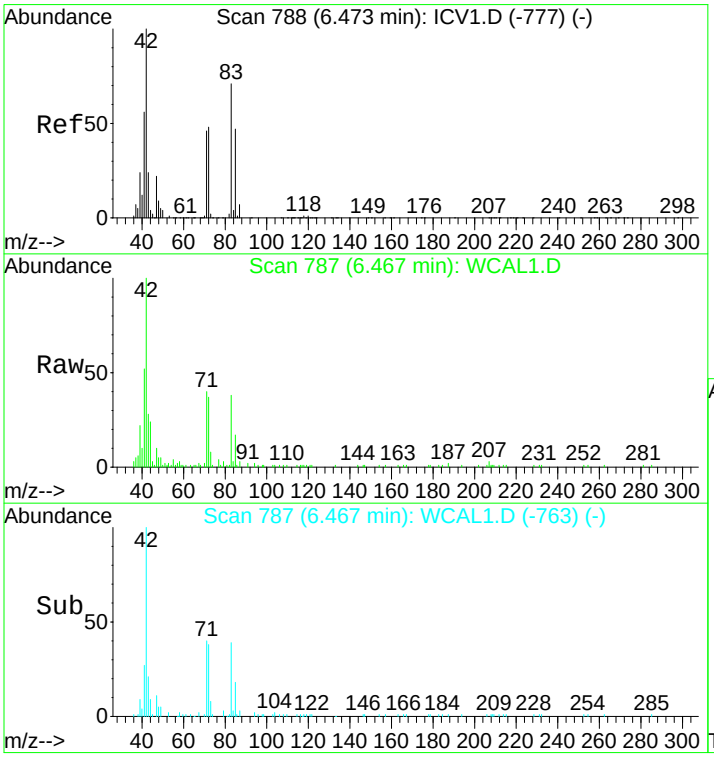
#38
Tetrahydofur
Concen: 7.31 ug/L
RT: 6.45 min Scan# 784
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 42 Resp: 99884

Ion	Ratio	Lower	Upper
42	100		
72	44.6	25.1	65.1
71	43.0	21.7	61.7



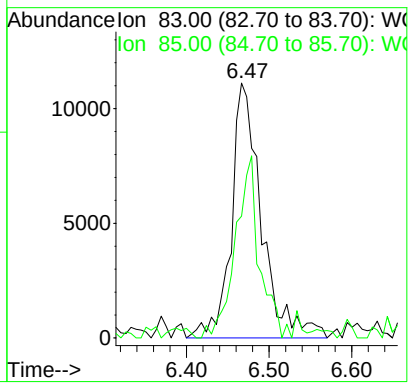
REASON # 2



#39
Chloroform
Concen: 0.78 ug/L
RT: 6.47 min Scan# 787
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 83 Resp: 28120

Ion	Ratio	Lower	Upper
83	100		
85	57.1	45.9	85.9



REASON # 2

Before Manual Integration

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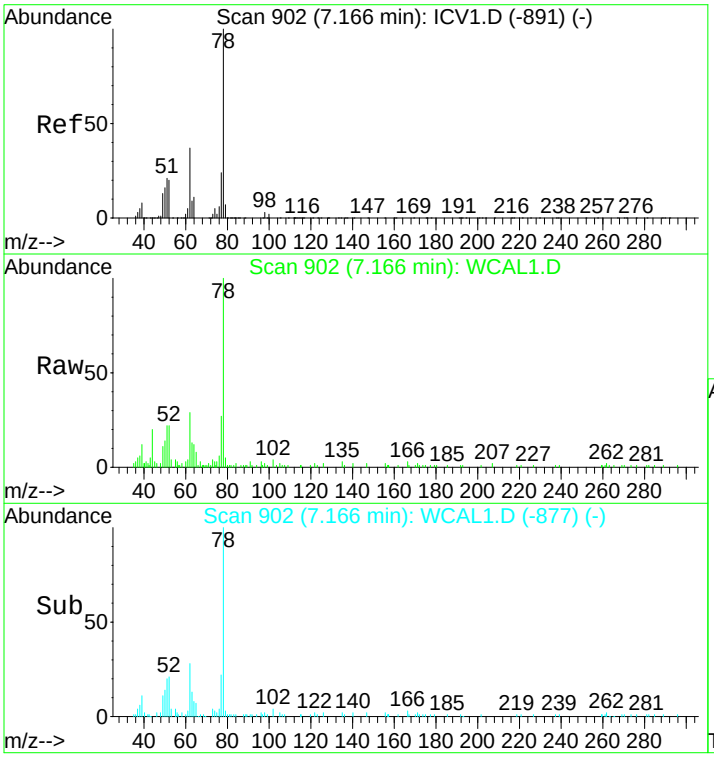
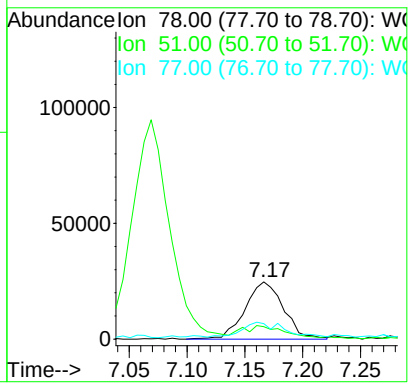


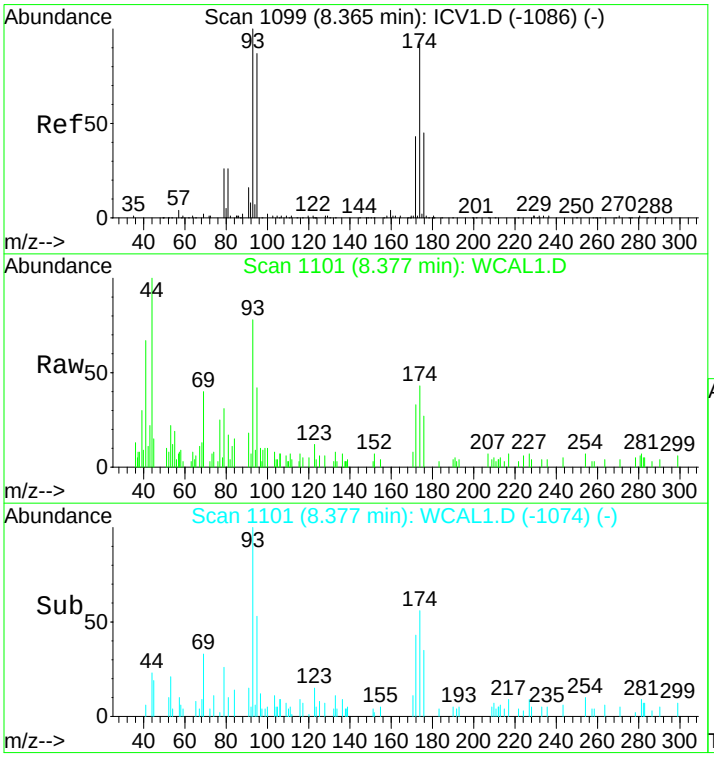
#46
Benzene
Concen: 0.70 ug/L
RT: 7.17 min Scan# 902
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 78 Resp: 57450

Ion	Ratio	Lower	Upper
78	100		
51	26.5	2.9	42.9
77	27.3	4.2	44.2



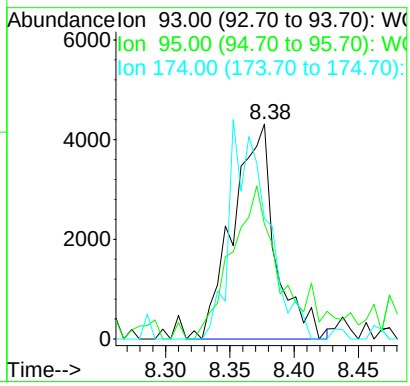
REASON # 2



#53
Dibromometha
Concen: 0.71 ug/L
RT: 8.38 min Scan# 1101
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 93 Resp: 9886

Ion	Ratio	Lower	Upper
93	100		
95	92.3	68.1	108.1
174	90.0	78.3	118.3



REASON # 2

Before Manual Integration

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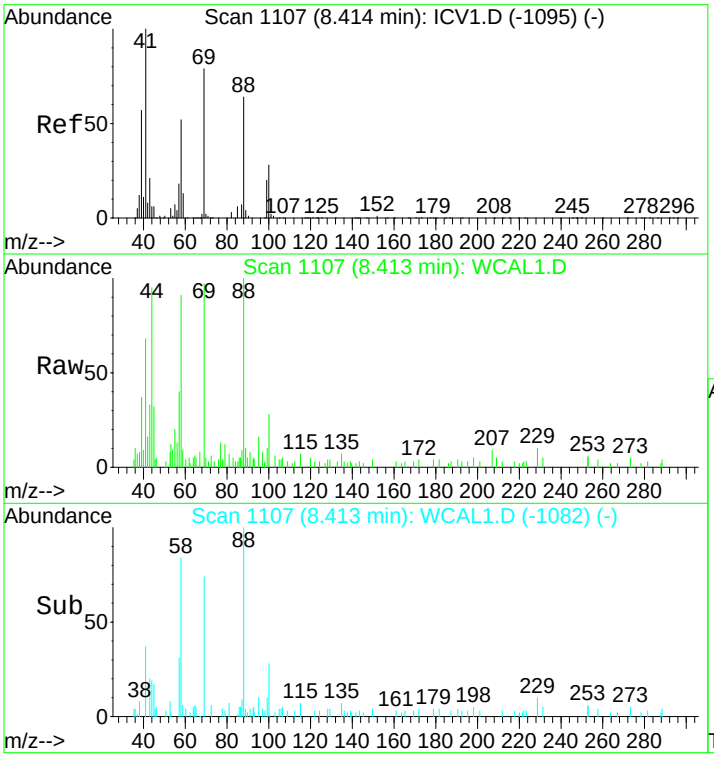
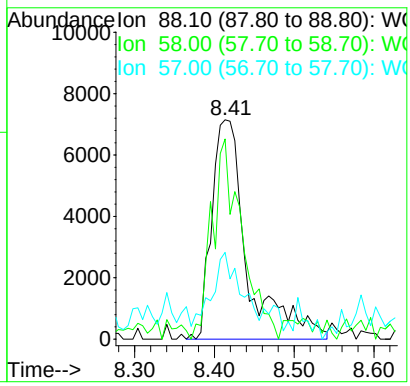


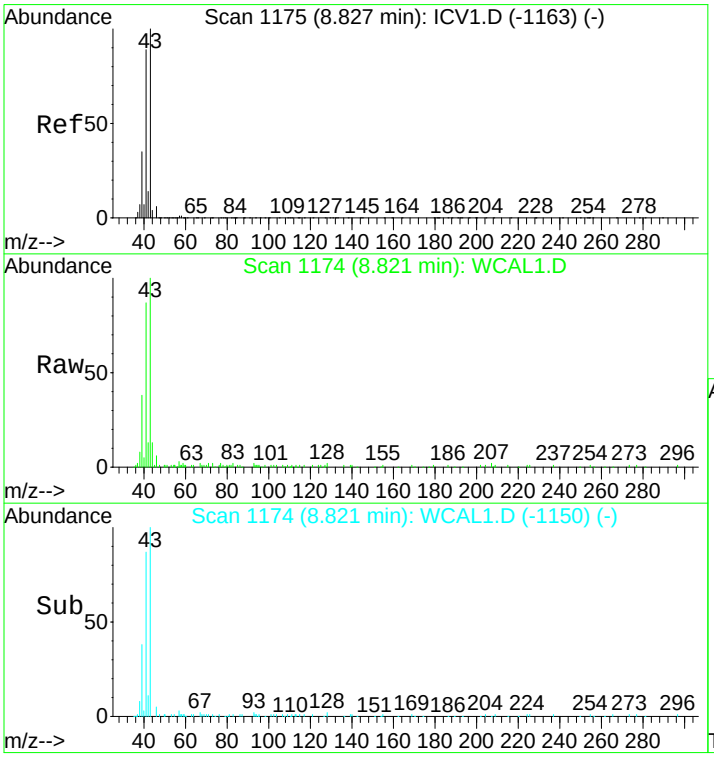
#55
14dioxane
Concen: 55.55 ug/L
RT: 8.41 min Scan# 1107
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 88 Resp: 22205

Ion	Ratio	Lower	Upper
88	100		
58	76.5	58.3	98.3
57	34.1	10.4	50.4



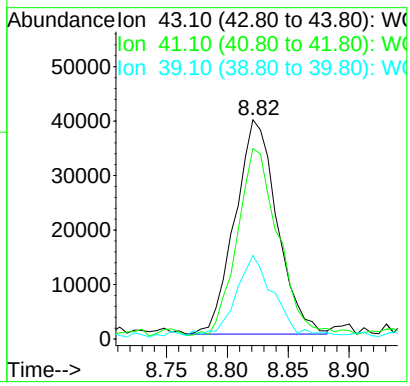
REASON # 2



#57
2Nitropropane
Concen: 7.00 ug/L
RT: 8.82 min Scan# 1174
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 94623

Ion	Ratio	Lower	Upper
43	100		
41	86.1	65.9	105.9
39	32.7	13.6	53.6



REASON # 2

Before Manual Integration

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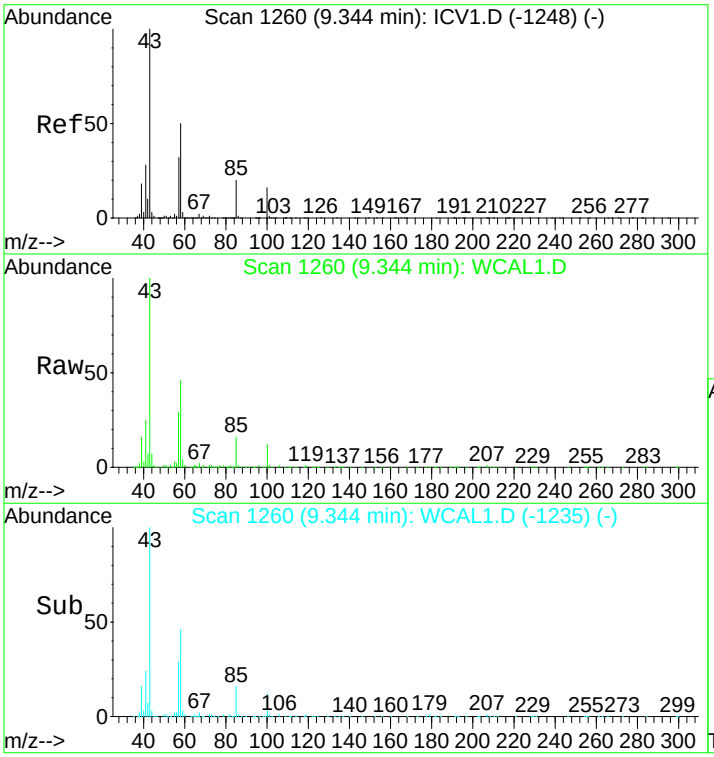
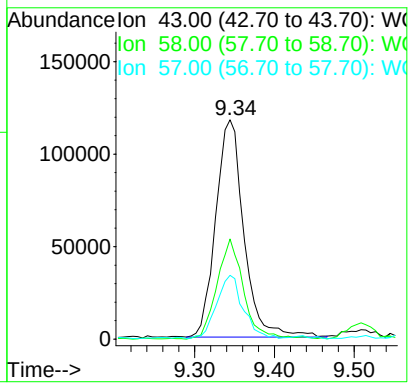


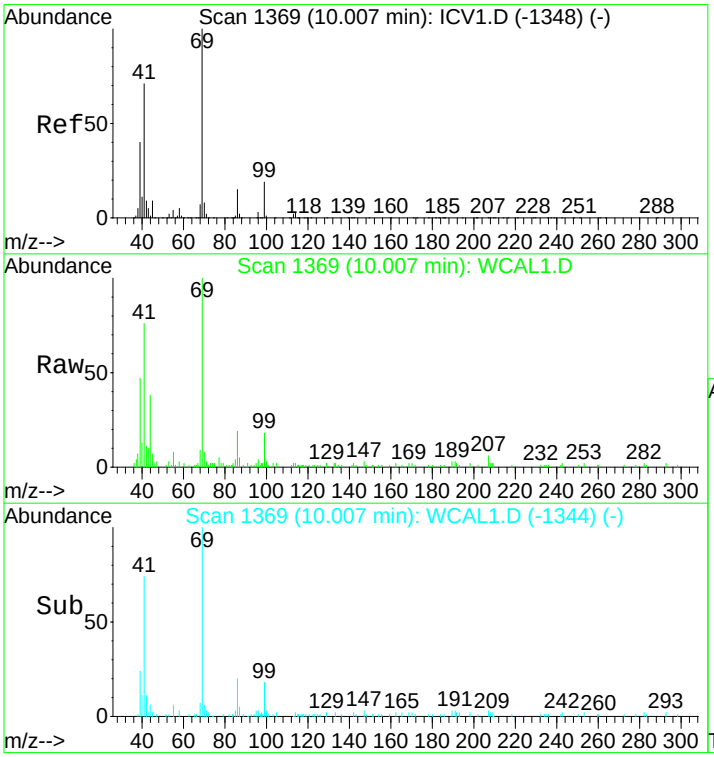
#60
4Meth2Pentan
Concen: 2.93 ug/L
RT: 9.34 min Scan# 1260
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 287780

Ion	Ratio	Lower	Upper
43	100		
58	44.1	27.7	67.7
57	27.5	10.0	50.0



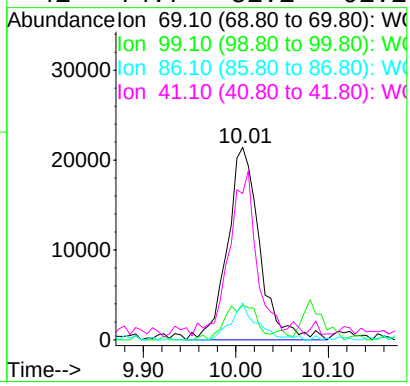
REASON # 2



#64
ethylmethacrylate
Concen: 1.47 ug/L
RT: 10.01 min Scan# 1369
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 69 Resp: 51662

Ion	Ratio	Lower	Upper
69	100		
99	20.4	0.0	38.1
86	15.6	0.0	36.0
41	74.7	51.1	91.1



REASON # 2

Before Manual Integration

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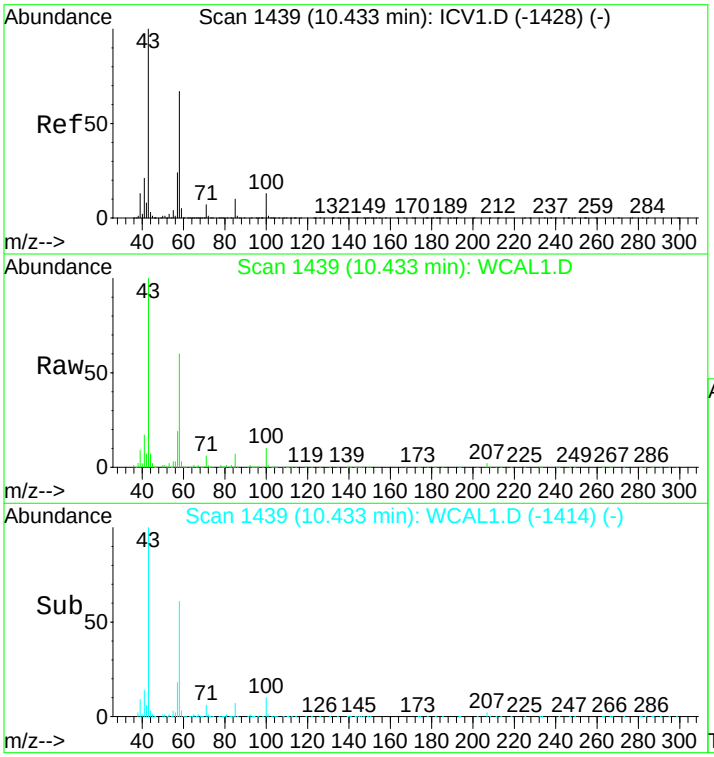
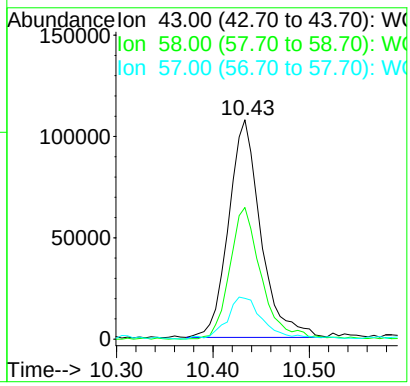


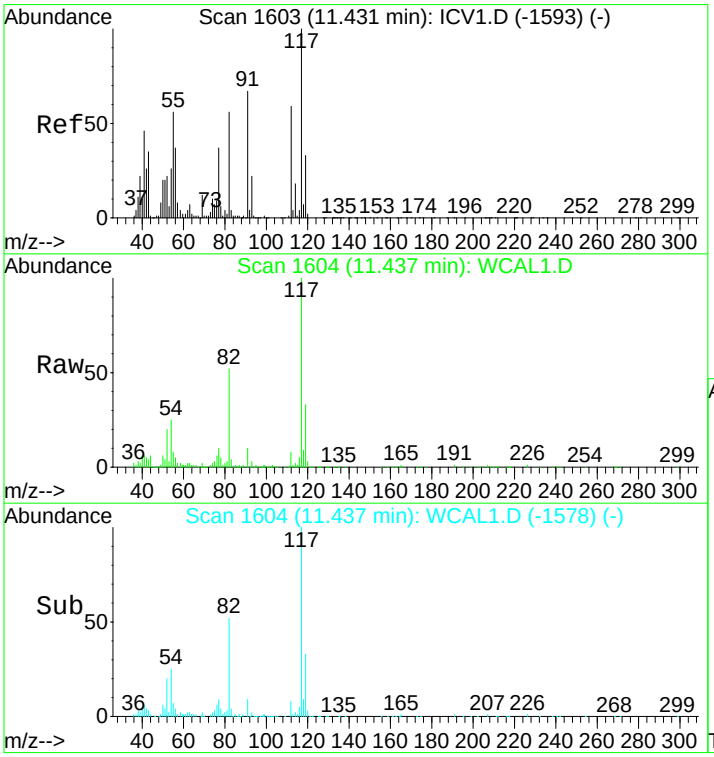
#69
2Hexanone
Concen: 3.56 ug/L
RT: 10.43 min Scan# 1439
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 43 Resp: 249096

Ion	Ratio	Lower	Upper
43	100		
58	60.1	44.0	84.0
57	22.3	2.8	42.8



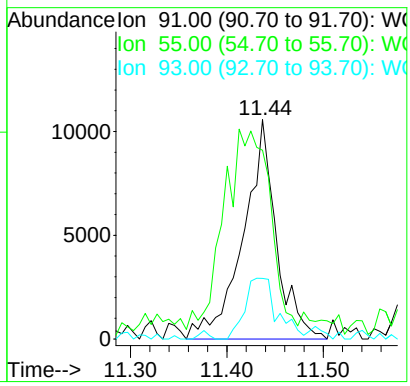
REASON # 2



#73
1Clhexane
Concen: 0.84 ug/L
RT: 11.44 min Scan# 1604
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 25269

Ion	Ratio	Lower	Upper
91	100		
55	140.0	66.2	106.2#
93	26.8	12.3	52.3



REASON # 2

Before Manual Integration

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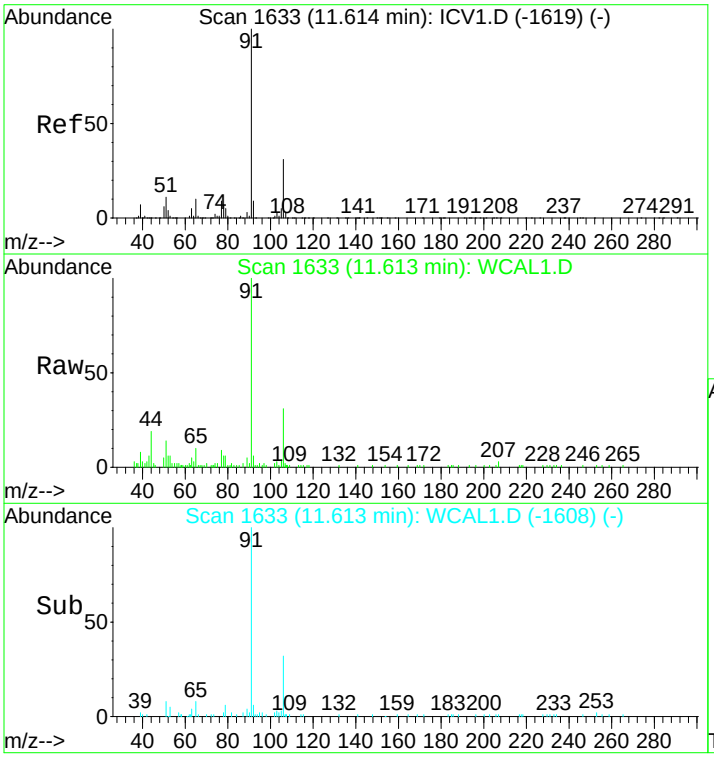
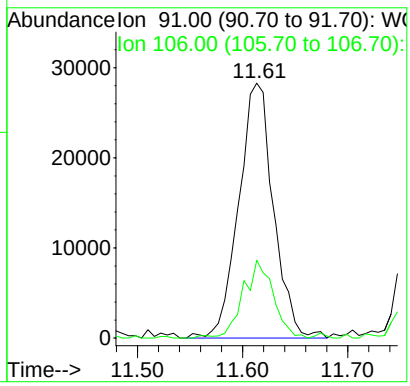


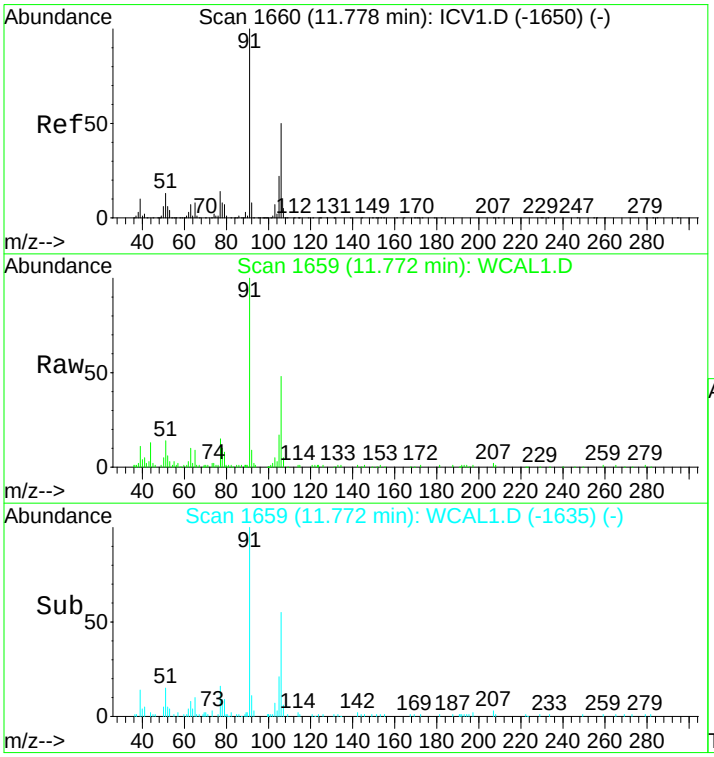
#75
Ethylbenzene
Concen: 0.69 ug/L
RT: 11.61 min Scan# 1633
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 65033

Ion	Ratio	Lower	Upper
91	100		
106	26.6	12.2	52.2



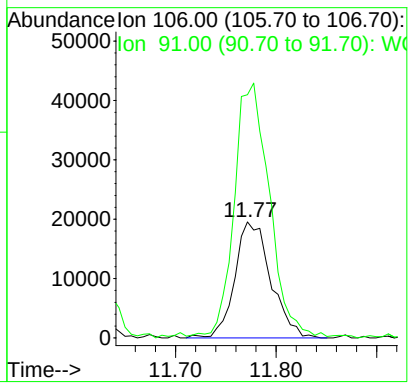
REASON # 2



#76
m p-Xylene
Concen: 1.37 ug/L
RT: 11.77 min Scan# 1659
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:106 Resp: 48631

Ion	Ratio	Lower	Upper
106	100		
91	217.0	179.7	219.7



REASON # 2

Before Manual Integration

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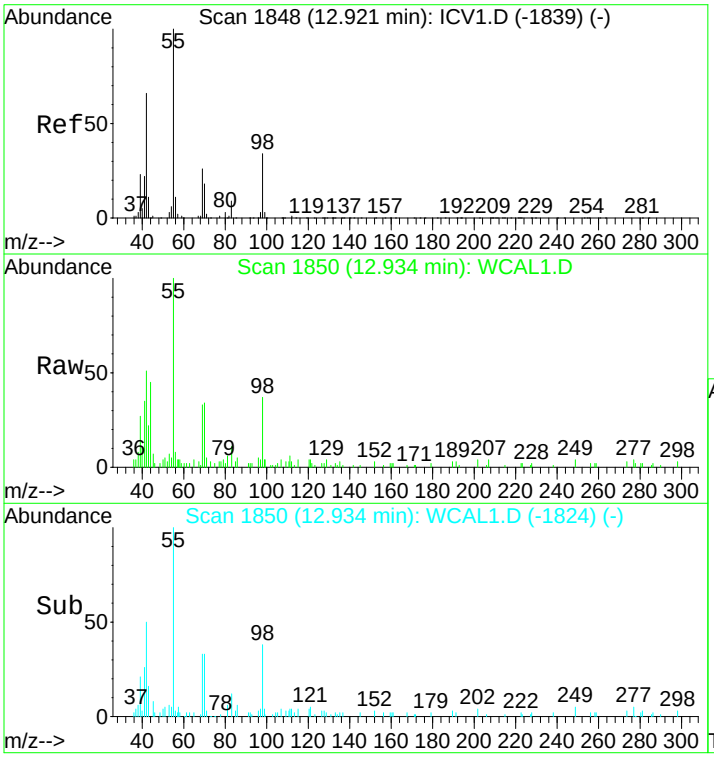
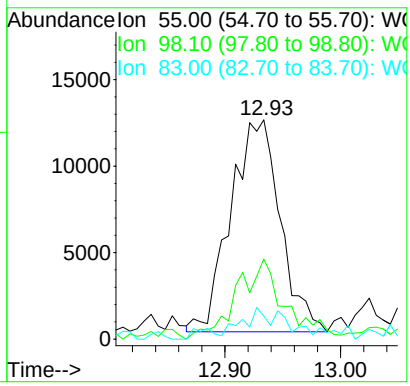


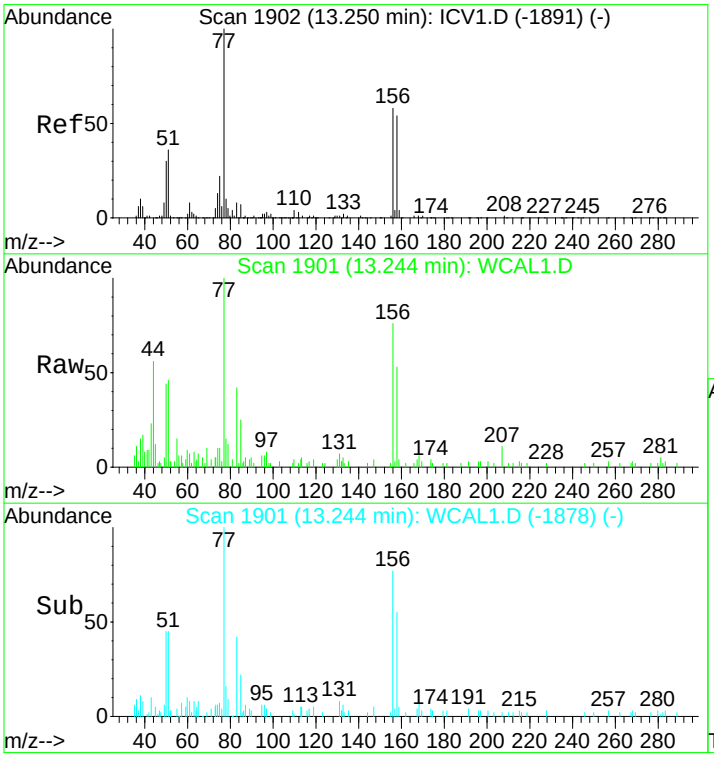
#81
cyclohexanone
Concen: 23.31 ug/L
RT: 12.93 min Scan# 1850
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 55 Resp: 36568

Ion	Ratio	Lower	Upper
55	100		
98	37.6	18.6	58.6
83	15.1	0.0	29.1



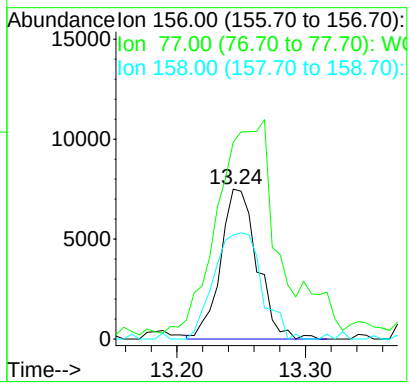
REASON # 2



#84
Bromobenzene
Concen: 0.71 ug/L
RT: 13.24 min Scan# 1901
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:156 Resp: 14842

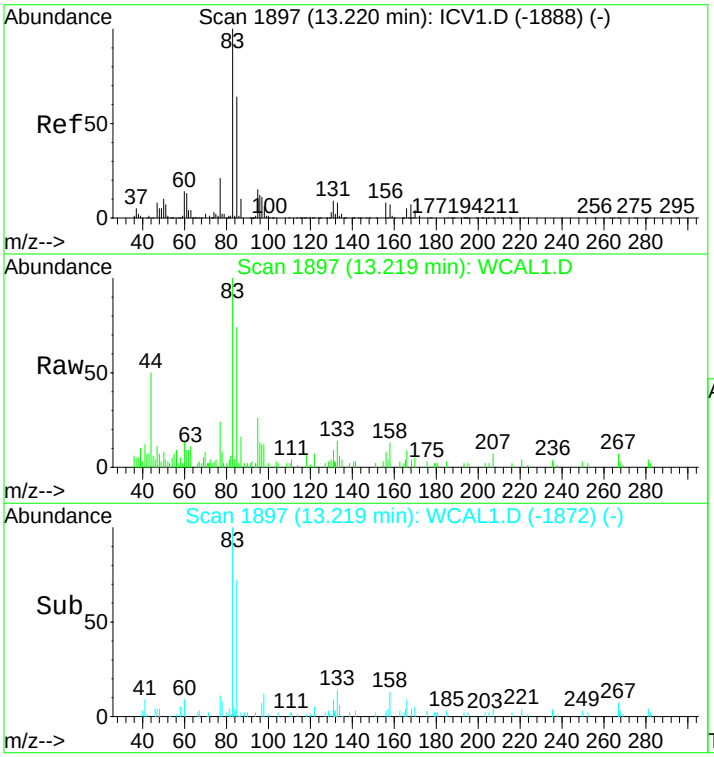
Ion	Ratio	Lower	Upper
156	100		
77	242.4	214.0	254.0
158	92.0	75.0	115.0



REASON # 2

Before Manual Integration

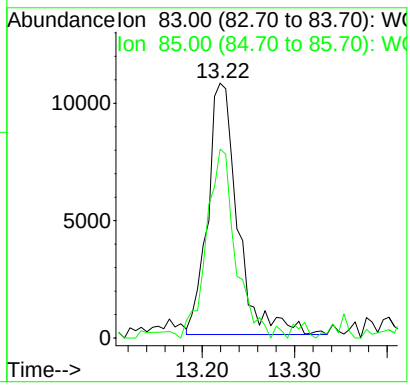
AgK 10/19/16



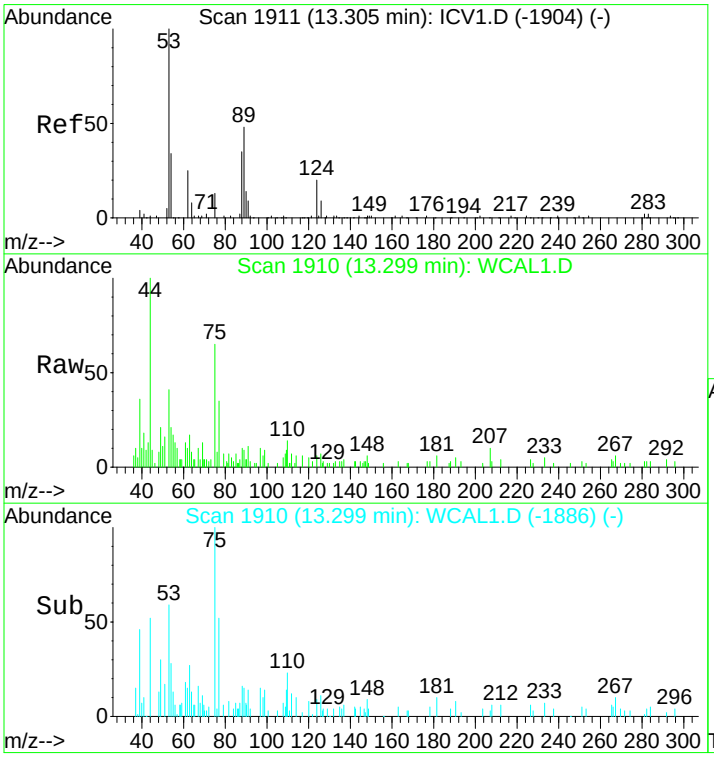
#85
1122Tetrclta
Concen: 0.73 ug/L
RT: 13.22 min Scan# 1897
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 83 Resp: 24143

Ion	Ratio	Lower	Upper
83	100		
85	72.1	42.8	82.8



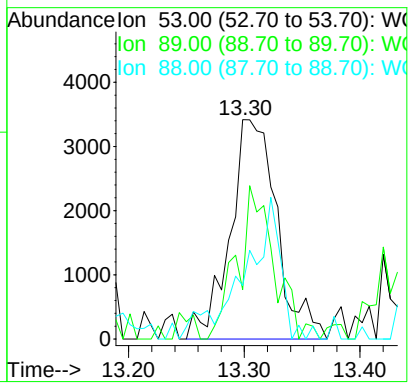
REASON # 2



#87
14dichloro2butene
Concen: 0.85 ug/L
RT: 13.30 min Scan# 1910
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 53 Resp: 9648

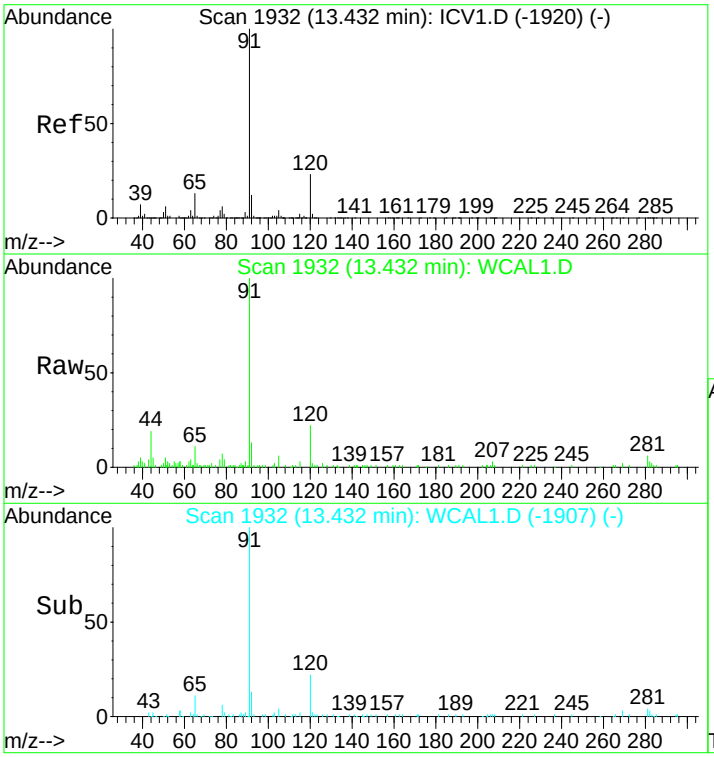
Ion	Ratio	Lower	Upper
53	100		
89	54.9	42.2	82.2
88	44.2	24.6	64.6



REASON # 2

Before Manual Integration

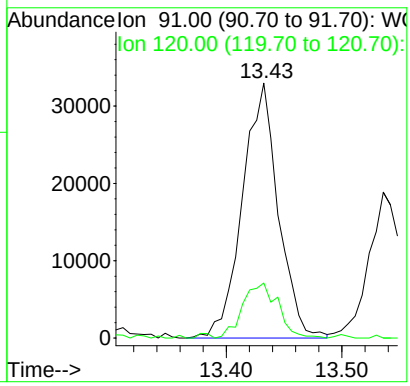
AgK 10/19/16



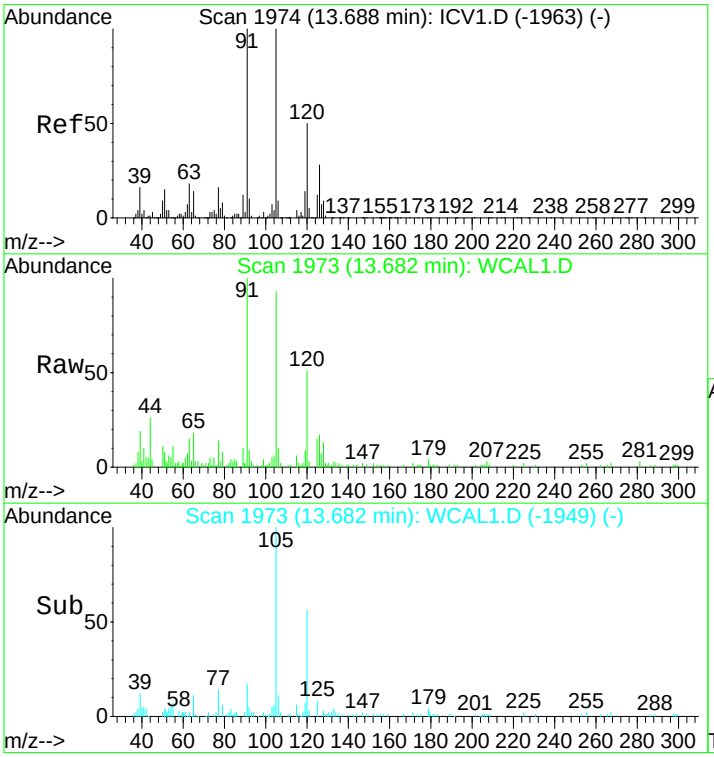
#88
n-Propylbenz
Concen: 0.67 ug/L
RT: 13.43 min Scan# 1932
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 71143

Ion	Ratio	Lower	Upper
91	100		
120	21.2	2.6	42.6



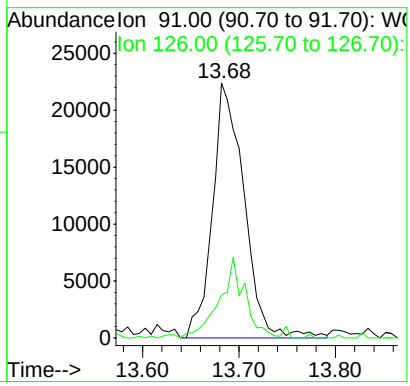
REASON # 2



#90
4chlorotolue
Concen: 0.73 ug/L
RT: 13.68 min Scan# 1973
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 50876

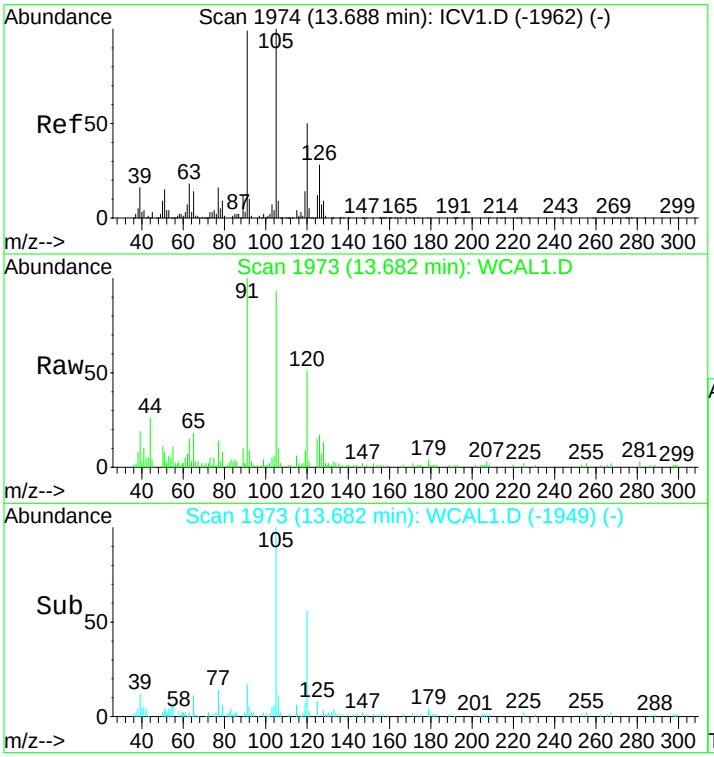
Ion	Ratio	Lower	Upper
91	100		
126	25.5	9.2	49.2



REASON # 2

Before Manual Integration

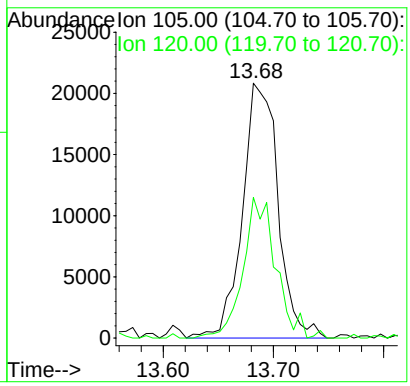
AgK 10/19/16



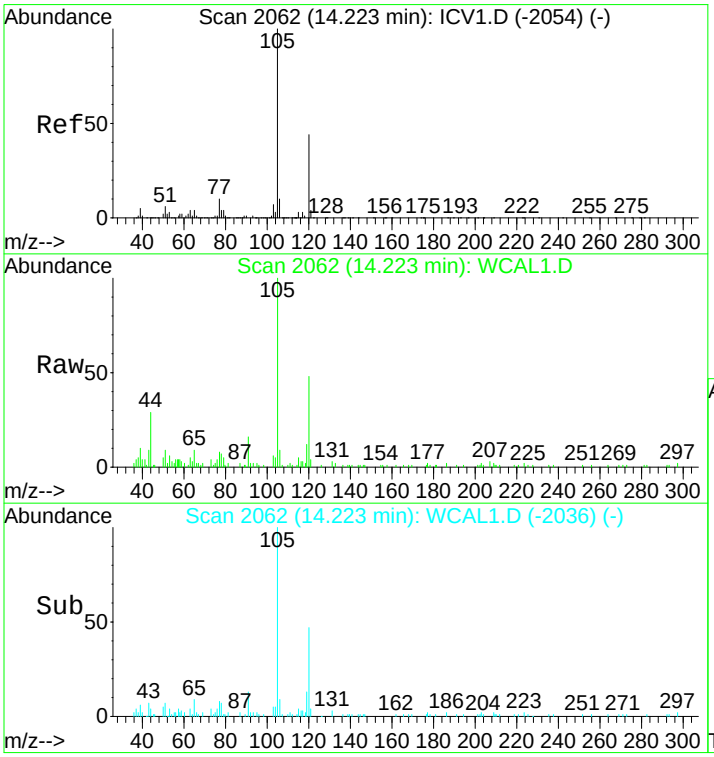
#91
135Trimebenz
Concen: 0.67 ug/L
RT: 13.68 min Scan# 1973
Delta R.T. -0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:105 Resp: 46832

Ion	Ratio	Lower	Upper
105	100		
120	50.4	28.2	68.2



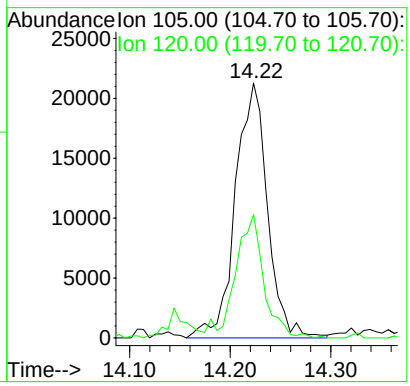
REASON # 2



#93
124Trimetben
Concen: 0.68 ug/L
RT: 14.22 min Scan# 2062
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:105 Resp: 47153

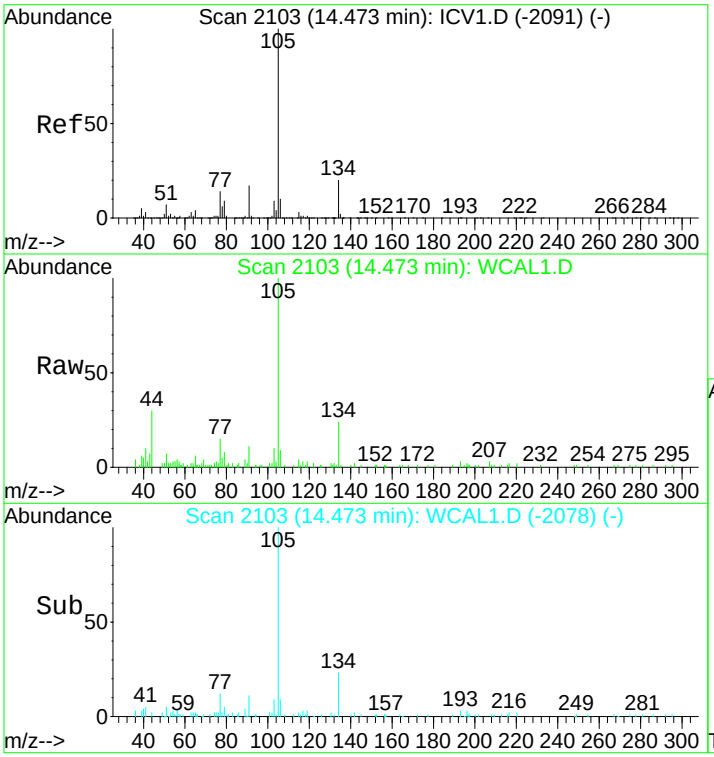
Ion	Ratio	Lower	Upper
105	100		
120	42.8	23.5	63.5



REASON # 2

Before Manual Integration

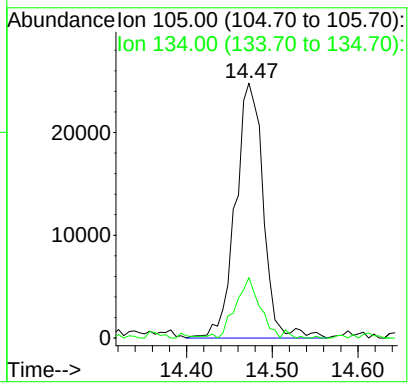
AgK 10/19/16



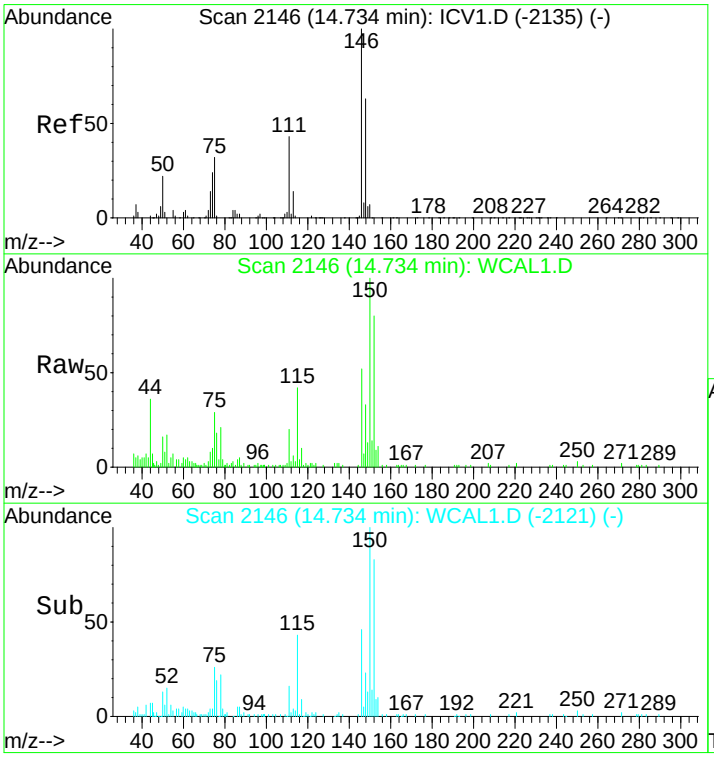
#94
sbutylbenzen
Concen: 0.67 ug/L
RT: 14.47 min Scan# 2103
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:105 Resp: 55900

Ion	Ratio	Lower	Upper
105	100		
134	20.3	0.2	40.2



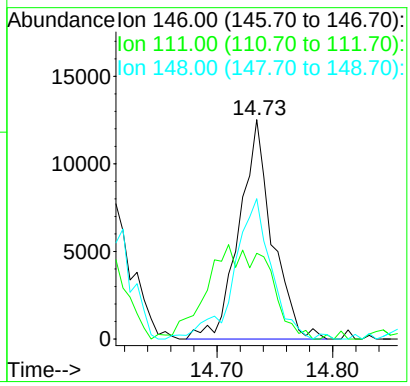
REASON # 2



#97
14dichlorobe
Concen: 0.69 ug/L
RT: 14.73 min Scan# 2146
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:146 Resp: 24937

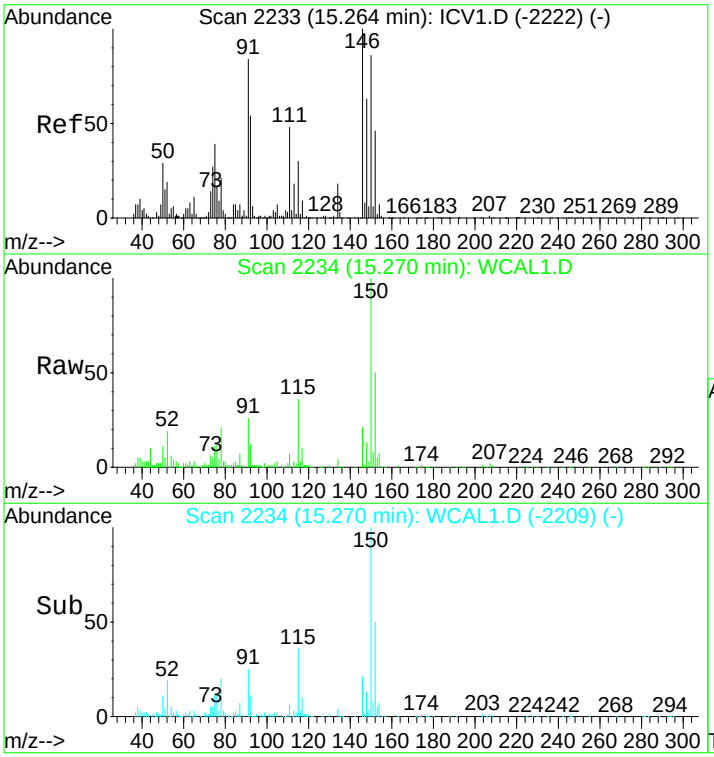
Ion	Ratio	Lower	Upper
146	100		
111	80.0	24.3	64.3#
148	71.2	42.1	82.1



REASON # 2

Before Manual Integration

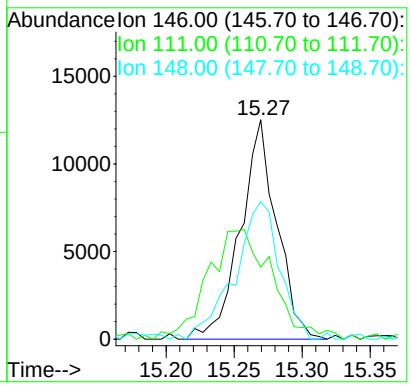
AgK 10/19/16



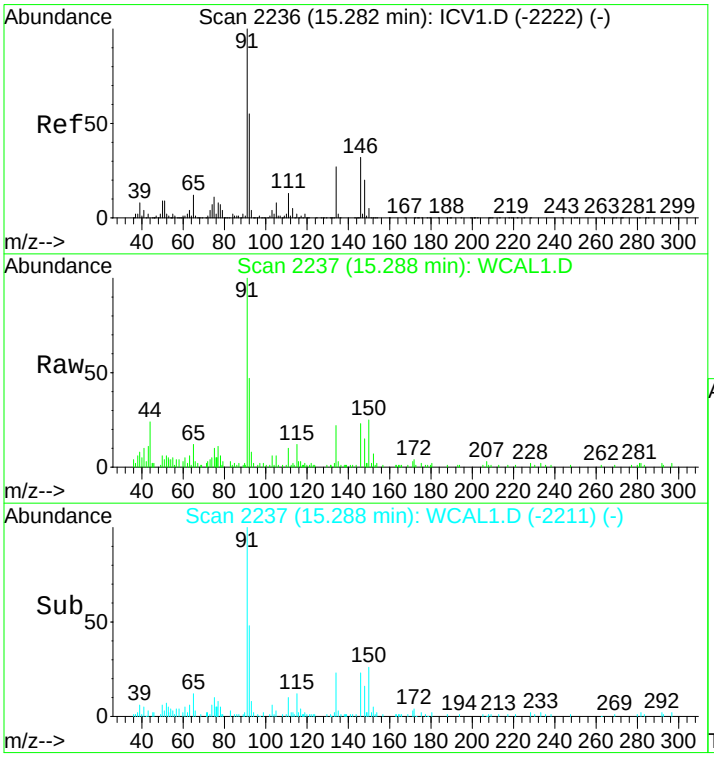
#98
12dichlorobe
Concen: 0.68 ug/L
RT: 15.27 min Scan# 2234
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:146 Resp: 23215

Ion	Ratio	Lower	Upper
146	100		
111	88.2	29.1	69.1#
148	77.7	46.0	86.0



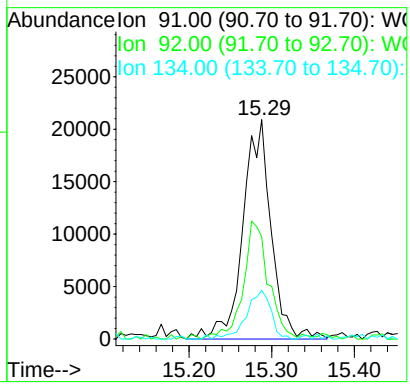
REASON # 2



#99
nButylbenzen
Concen: 0.76 ug/L
RT: 15.29 min Scan# 2237
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion: 91 Resp: 49579

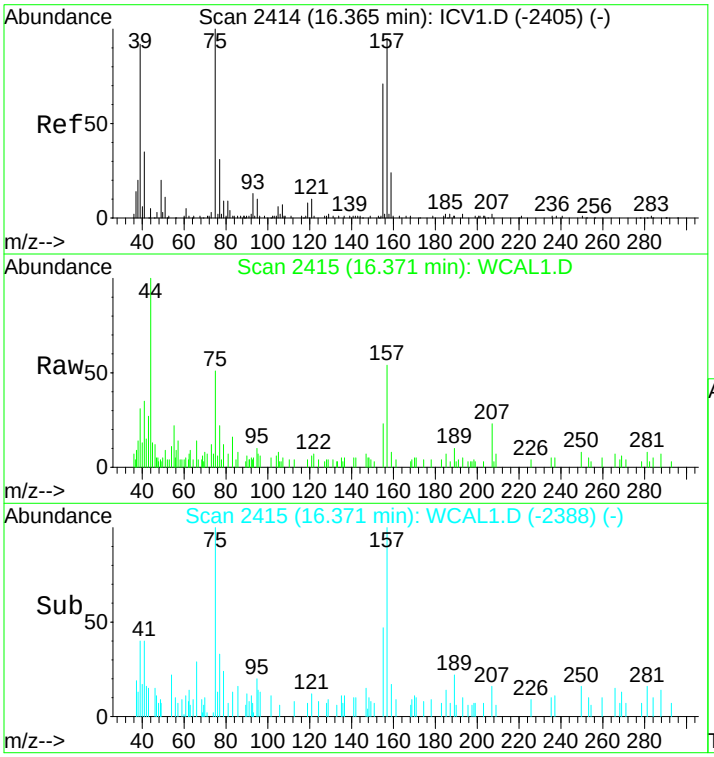
Ion	Ratio	Lower	Upper
91	100		
92	48.9	33.4	73.4
134	19.2	4.7	44.7



REASON # 2

Before Manual Integration

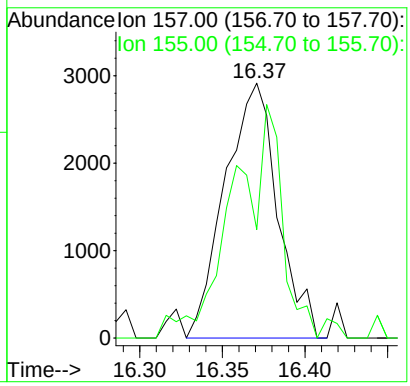
AgK 10/19/16



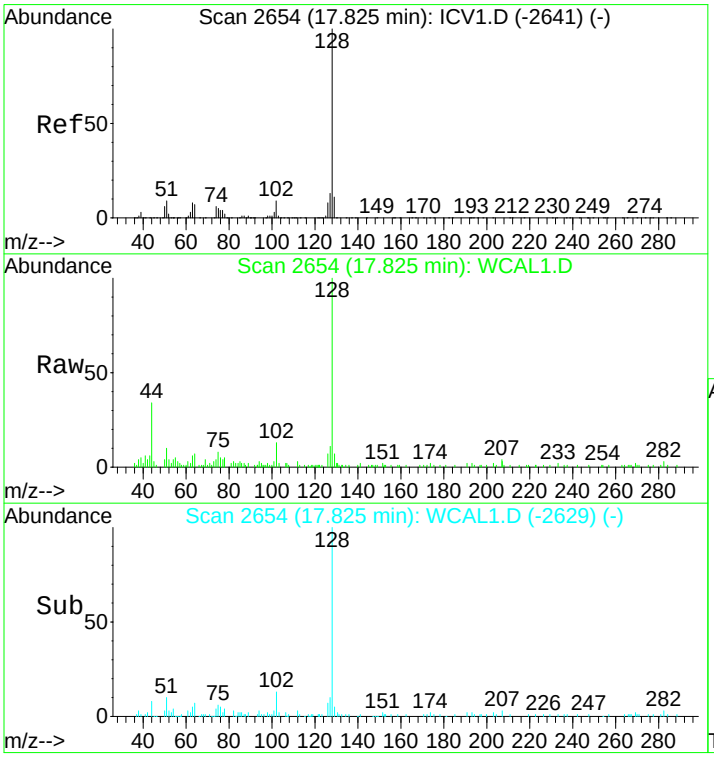
#100
12dibromo3cl
Concen: 0.72 ug/L
RT: 16.37 min Scan# 2415
Delta R.T. 0.01 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:157 Resp: 6475

Ion	Ratio	Lower	Upper
157	100		
155	86.8	57.2	97.2



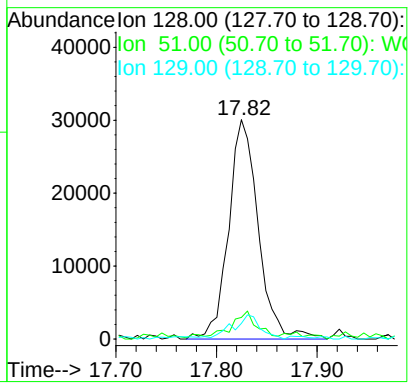
REASON # 2



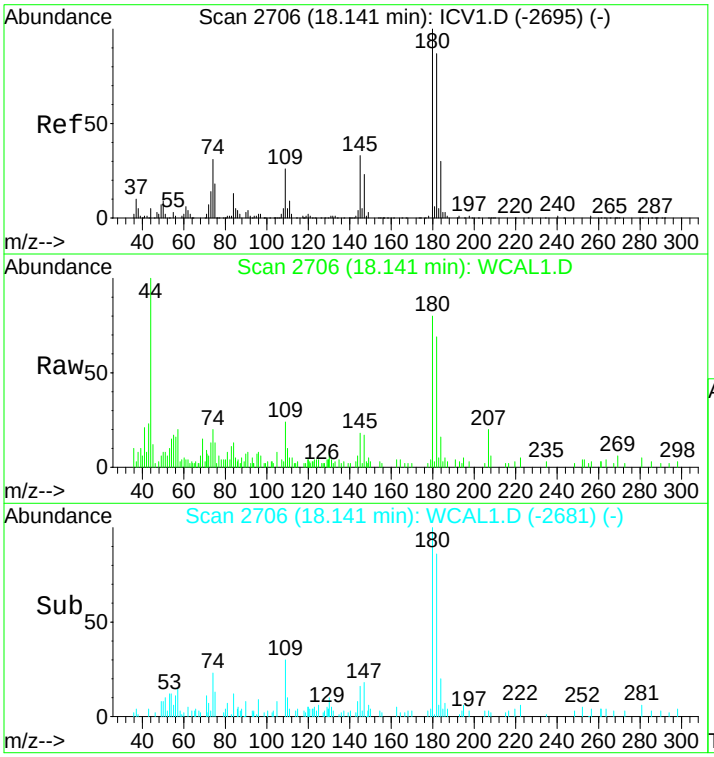
#104
Naphthalene
Concen: 0.76 ug/L
RT: 17.82 min Scan# 2654
Delta R.T. 0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:128 Resp: 61789

Ion	Ratio	Lower	Upper
128	100		
51	8.6	0.0	29.8
129	10.0	0.0	31.6



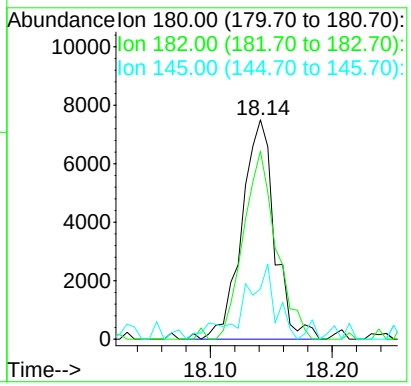
REASON # 2



#105
123Trichlben
Concen: 0.71 ug/L
RT: 18.14 min Scan# 2706
Delta R.T. -0.00 min
Lab File: WCAL1.D
Acq: 5 Oct 2016 23:20

Tgt Ion:180 Resp: 14081

Ion	Ratio	Lower	Upper
180	100		
182	85.5	75.2	115.2
145	27.9	12.4	52.4



Before Manual Integration

AgK 10/19/16

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\WCAL2.D Vial: 6
Acq On : 5 Oct 2016 23:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:13:41 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:02 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1531141	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1215733	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	643941	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	379292	19.969 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 100 %		
45) SURR12DCAd4	7.07	102	94871	19.099 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 95 %		
61) SURRd8Tolule	9.51	98	1523616	20.072 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 100 %		
83) SURR4BrFBenz	13.04	95	644096	19.030 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 95 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.76	85	35626	1.9671 ug/L	91
3) Chloromethan	1.99	50	93547m	1.8211 ug/L	99
4) VinylChlorid	2.14	62	60310	1.9530 ug/L	99
5) Bromomethane	2.59	94	17780	2.1356 ug/L	92
6) Chloroethane	2.74	64	39846	1.9698 ug/L	97
7) Dichloroflmethane	3.05	67	79769	1.9936 ug/L	95
8) Trichlorofma	3.13	101	56898	1.9968 ug/L	92
9) Ethylether	3.56	59	41378	1.8783 ug/L	95
10) dichlorotfluoroethan	3.57	67	43947	1.9474 ug/L	97
11) propyleneoxide	3.89	58	133619	19.8253 ug/L #	88
12) Acrolein	3.69	56	103717	10.1535 ug/L	96
13) 11dichlorthe	3.83	96	40517	2.0554 ug/L	95
14) Trichlorotfluoroeth	3.87	101	66690	3.6917 ug/L	97
15) Acetone	3.89	43	348896m	18.9482 ug/L	95
16) Iodomethane	4.01	142	61340	4.0509 ug/L	94
17) Carbon Dislf	4.09	76	215085	4.1774 ug/L	98
18) allylchloride	4.31	41	133143	4.2673 ug/L	99
19) methylacetate	4.36	74	23319	1.7410 ug/L	91
20) Methylchlorid	4.47	84	46068m	1.8624 ug/L	93
21) tbutylalcohol	4.66	59	803896	118.1957 ug/L	97
22) Acrylonitrile	4.76	53	152000	10.2618 ug/L	97
23) t12dichlorte	4.84	96	43422	2.0691 ug/L	98
24) MtBE	4.87	73	132367	2.1693 ug/L	94
25) Hexane	5.23	57	124059	3.8082 ug/L	99
26) 11dichlorota	5.35	63	87259	2.1300 ug/L	100
27) Vinylacetate	5.44	43	1058437	26.1178 ug/L	96
28) chloroprene	5.48	53	161578	4.0864 ug/L	96
29) Diisopether	5.51	45	153036	2.1318 ug/L	92
30) ETBE	5.96	59	154659	2.1127 ug/L	98
31) 22dichloropr	6.09	77	63312	2.0324 ug/L	94
32) c12dichlorte	6.08	96	44893	2.0095 ug/L #	88
33) 2Butanone	6.10	72	127168	21.4802 ug/L	94
34) propionitrile	6.13	54	144882	21.5872 ug/L	95
35) Ethylacetate	6.21	88	14463	9.5869 ug/L #	91
36) methacrylonitrile	6.33	67	60194	3.9744 ug/L	97
37) Bromochlorma	6.36	128	19632	2.2008 ug/L	88
38) Tetrahydofur	6.45	42	287794	21.0333 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\WCAL2.D Vial: 6
Acq On : 5 Oct 2016 23:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:13:41 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:02 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.48	83	78119	2.0871 ug/L		96
40)	111trichlota	6.72	97	63050	1.9525 ug/L		98
42)	Cyclohexane	6.81	56	85140	1.9450 ug/L		99
43)	Carbtetraclo	6.94	119	41484	1.8800 ug/L		100
44)	11dicloprope	6.93	110	18728	1.8577 ug/L	#	79
46)	Benzene	7.17	78	179693	2.1338 ug/L		97
47)	12dichlorota	7.17	62	62003	2.0069 ug/L		95
48)	TAME	7.34	73	126993	2.0016 ug/L		95
49)	trichloroete	7.98	95	46711	2.1166 ug/L		93
50)	methylcyclohexane	8.24	83	69863	1.9369 ug/L		99
51)	12dicloropra	8.23	63	51508	2.0115 ug/L	#	96
52)	23Dicl1propene	8.29	75	71370	2.1130 ug/L		96
53)	Dibromometha	8.36	93	29668	2.0730 ug/L		92
54)	methylmethacrylate	8.41	69	44822	1.9016 ug/L		98
55)	14dioxane	8.41	88	42309	110.4458 ug/L		93
56)	Bromodiclrma	8.57	83	59380	2.1446 ug/L		98
57)	2Nitropropane	8.82	43	286490	21.7065 ug/L		99
58)	2CLEVE	8.97	63	20531	8.4210 ug/L		94
59)	c13dicloproe	9.15	75	71379	2.0378 ug/L		96
60)	4Meth2Pentan	9.34	43	853588	25.4298 ug/L		94
62)	Toluene	9.59	92	113642	2.1733 ug/L		99
63)	t13Dicloprop	9.86	75	64932	2.0552 ug/L		95
64)	ethylmethacrylate	10.01	69	153443	4.2110 ug/L		99
65)	112Triclotha	10.09	83	40058	2.2781 ug/L		95
66)	Tetrachlorte	10.32	166	38792	1.9898 ug/L		98
67)	13Diclorpropa	10.31	76	73328	2.0690 ug/L		99
69)	2Hexanone	10.43	43	711164	23.7244 ug/L		94
70)	Clorodibrmta	10.61	129	36945	1.7790 ug/L		92
71)	12Dibrometha	10.76	107	44461	1.9579 ug/L		99
72)	Chlorobenzen	11.45	112	116491	2.0956 ug/L		93
73)	1Clhexane	11.44	91	65225	1.9479 ug/L		88
74)	1112Tetclota	11.56	131	39083	2.0116 ug/L		96
75)	Ethylbenzene	11.61	91	216658	2.1708 ug/L		97
76)	m p-Xylene	11.78	106	158429	4.2298 ug/L		95
77)	o-Xylene	12.32	106	81711	2.1771 ug/L		93
78)	Styrene	12.34	104	134357	2.1565 ug/L		98
79)	Bromoform	12.56	173	28566	1.8565 ug/L		96
80)	Isopropylben	12.84	105	182264	2.1593 ug/L		99
81)	cyclohexanone	12.92	55	73383	37.5910 ug/L		91
84)	Bromobenzene	13.24	156	44680	1.9208 ug/L		94
85)	1122Tetrclta	13.22	83	75535	2.0040 ug/L		99
86)	123Triclproa	13.28	75	95739	2.0117 ug/L		97
87)	14dichloro2butene	13.31	53	25760	1.9032 ug/L		92
88)	n-Propylbenz	13.43	91	242248	2.1322 ug/L		99
89)	2chlorotolue	13.54	91	143216	2.1261 ug/L		96
90)	4chlorotolue	13.69	91	162115	2.0438 ug/L		99
91)	135Trimebenz	13.68	105	157242	2.0305 ug/L		98
92)	tbutylbenzen	14.16	119	132436	2.0853 ug/L		99
93)	124Trimetben	14.22	105	162585	2.0867 ug/L		96
94)	sbutylbenzen	14.47	105	185313	1.9865 ug/L		99
95)	13Diclorbenz	14.61	146	80908	2.0867 ug/L		99
96)	pIsopropylto	14.69	119	150382	2.0350 ug/L		98
97)	14dichlorobe	14.73	146	82188	2.0267 ug/L		84
98)	12dichlorobe	15.26	146	82047	2.1566 ug/L		95
99)	nButylbenzen	15.29	91	144346	1.9235 ug/L		97
100)	12dibromo3cl	16.36	157	19689	1.9487 ug/L		98
101)	135Trichlorobenzene	16.71	180	52179	1.9541 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\WCAL2.D Vial: 6
Acq On : 5 Oct 2016 23:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:13:41 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:02 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.53	180	42631	1.8464 ug/L	93
103) Hexachlorobu	17.78	225	17886	2.0659 ug/L	90
104) Naphthalene	17.82	128	181700	2.0498 ug/L	99
105) 123Trichlben	18.14	180	44219	1.9762 ug/L	94

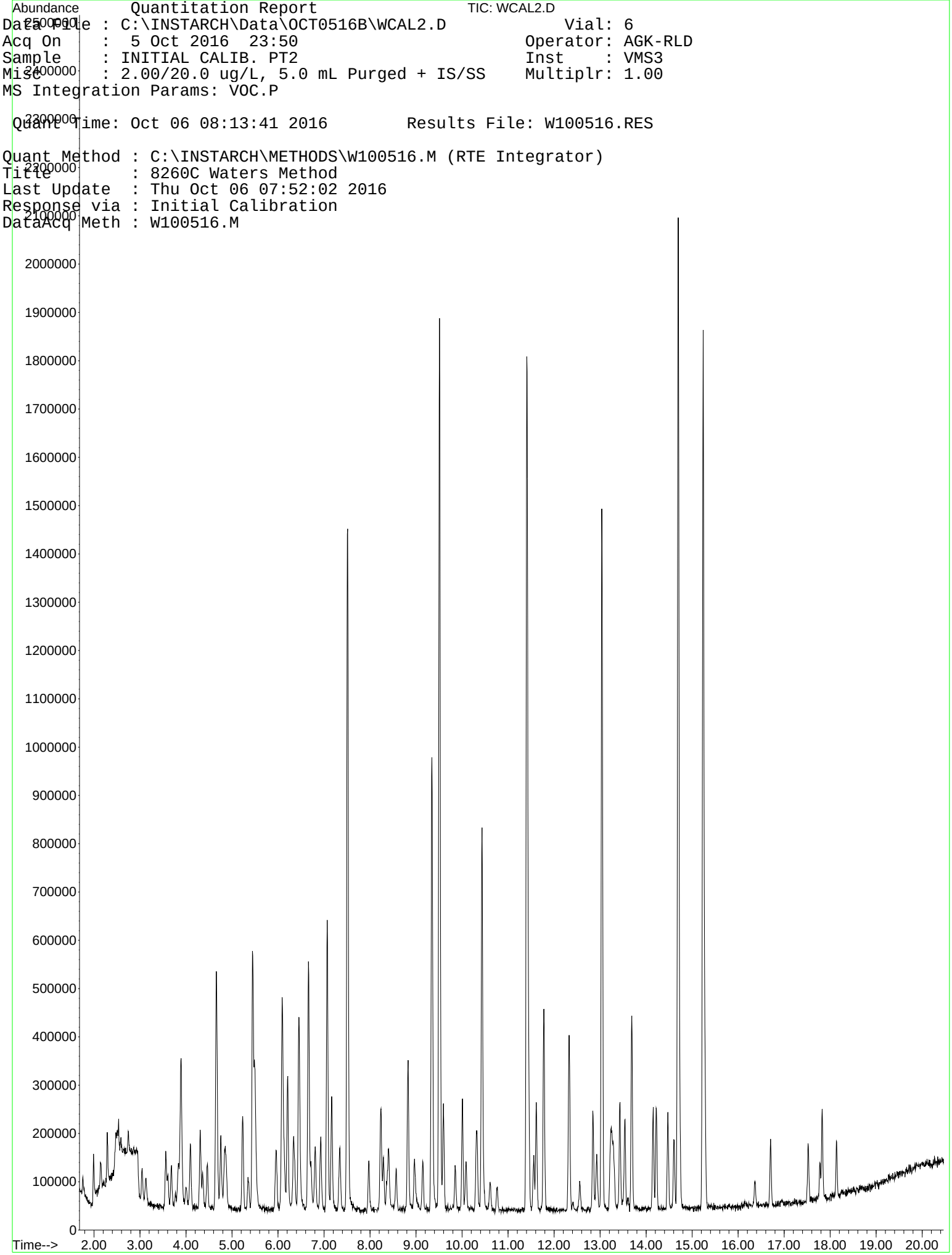
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\WCAL2.D Vial: 6
Acq On : 5 Oct 2016 23:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT2 Inst : VMS3
Misc : 2.00/20.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

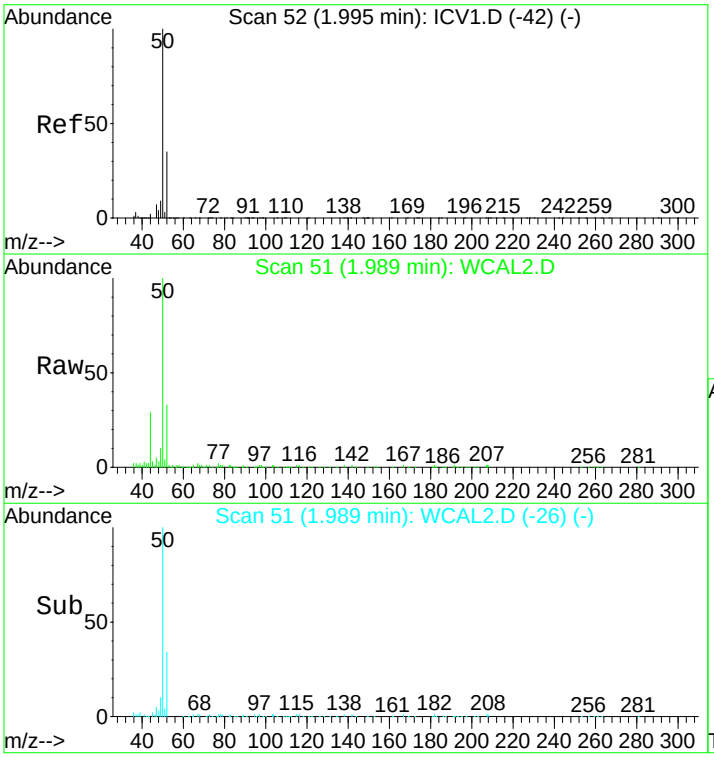
Quant Time: Oct 06 08:13:41 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:52:02 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



After Manual Integration

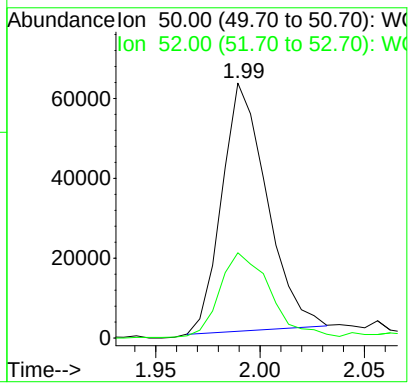
AgK 10/19/16

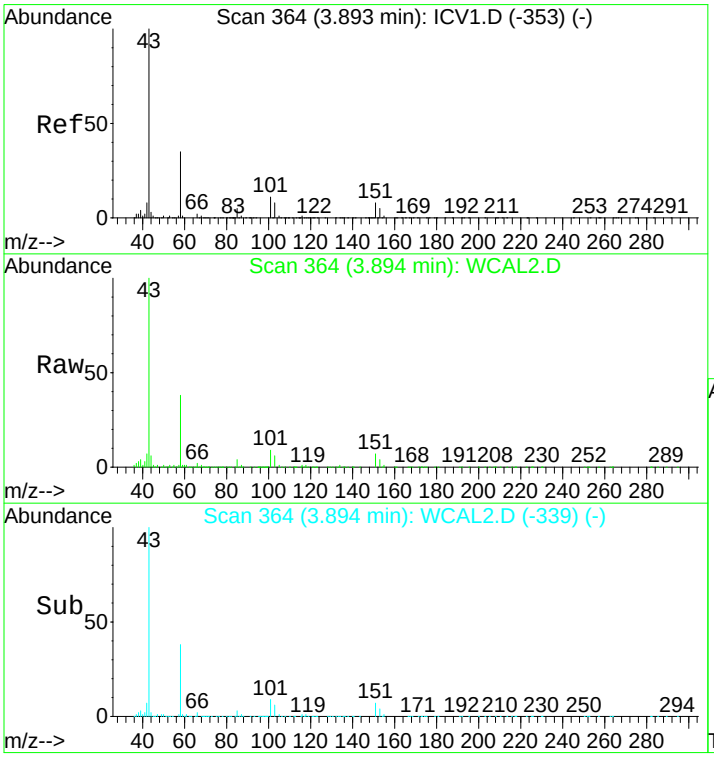


#3
Chloromethan
Concen: 1.82 ug/L m
RT: 1.99 min Scan# 51
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 5 Oct 2016 23:50

Tgt Ion: 50 Resp: 93547

Ion	Ratio	Lower	Upper
50	100		
52	39.2	13.5	53.5

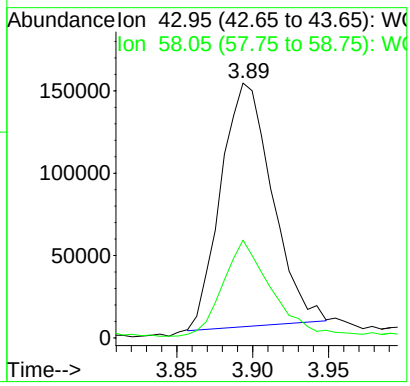




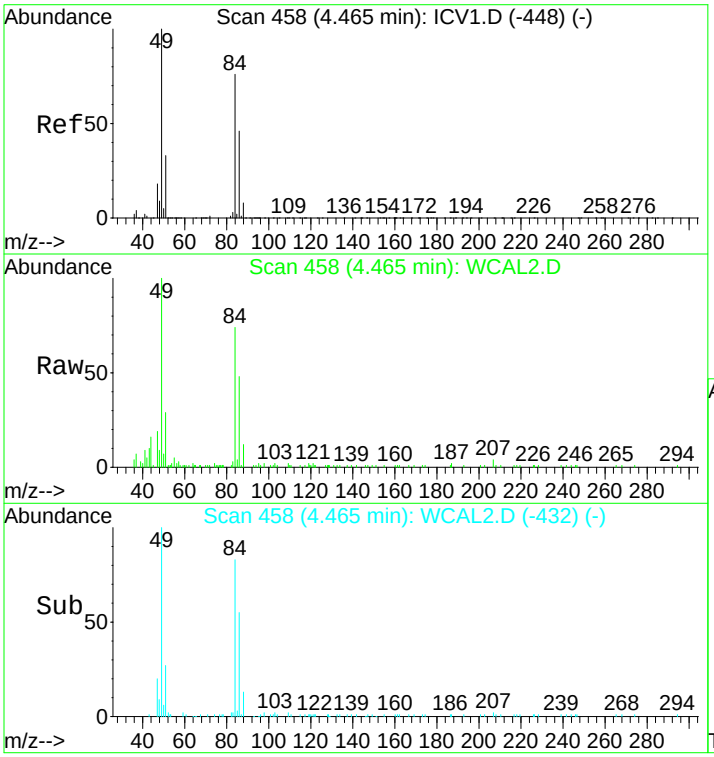
#15
Acetone
Concen: 18.95 ug/L m
RT: 3.89 min Scan# 364
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 5 Oct 2016 23:50

Tgt Ion: 43 Resp: 348896

Ion	Ratio	Lower	Upper
43	100		
58	38.3	14.9	54.9



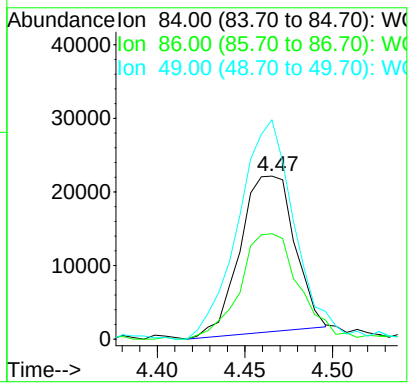
RJ 10/19/2016



#20
Methylchlorid
Concen: 1.86 ug/L m
RT: 4.47 min Scan# 458
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 5 Oct 2016 23:50

Tgt Ion: 84 Resp: 46068

Ion	Ratio	Lower	Upper
84	100		
86	74.2	48.9	88.9
49	146.0	117.6	157.6

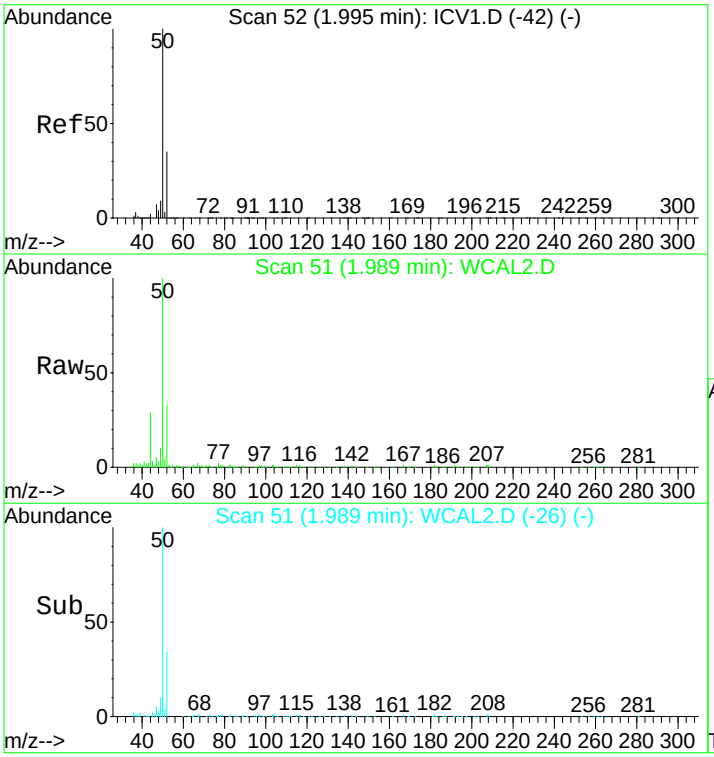


After Manual Integration
AgK 10/19/16

RJ 10/19/2016

Before Manual Integration

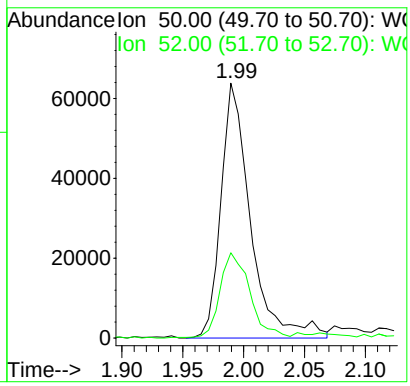
AgK 10/19/16



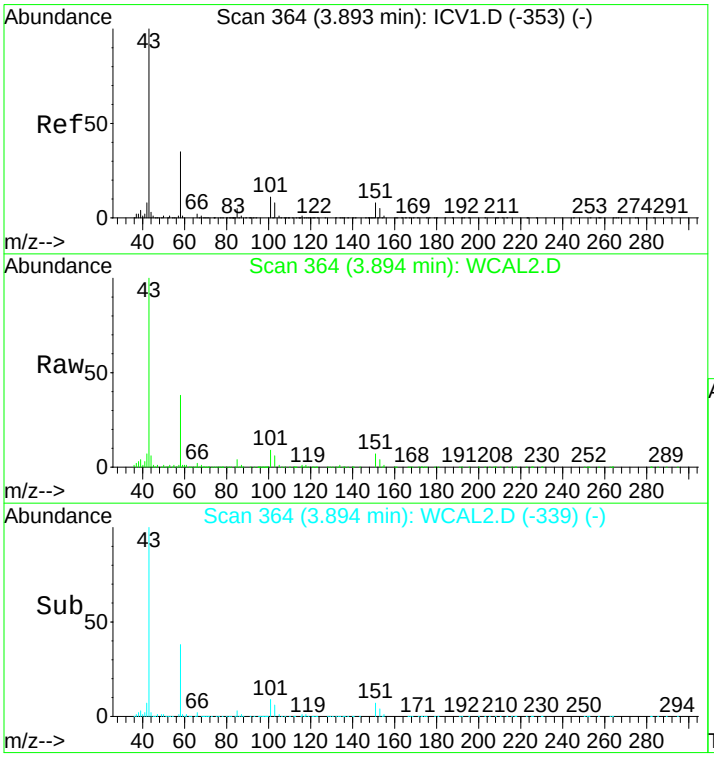
#3
Chloromethan
Concen: 2.32 ug/L
RT: 1.99 min Scan# 51
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 5 Oct 2016 23:50

Tgt Ion: 50 Resp: 108099

Ion	Ratio	Lower	Upper
50	100		
52	34.0	13.4	53.4



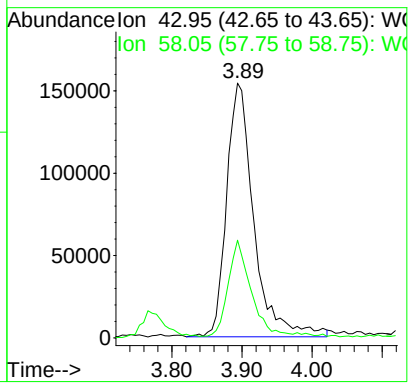
REASON # 2



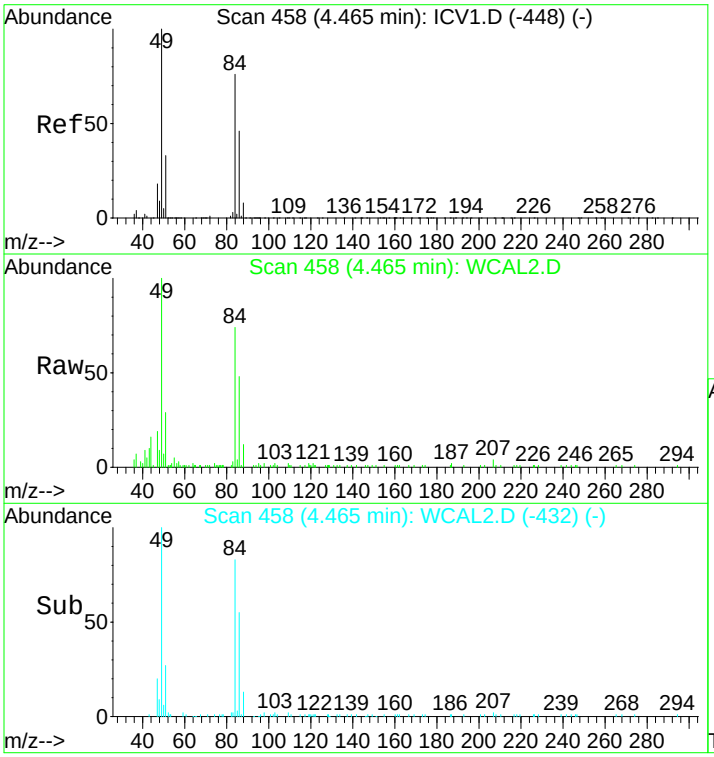
#15
Acetone
Concen: 25.60 ug/L
RT: 3.89 min Scan# 364
Delta R.T. 0.00 min
Lab File: WCAL2.D
Acq: 5 Oct 2016 23:50

Tgt Ion: 43 Resp: 416099

Ion	Ratio	Lower	Upper
43	100		
58	32.1	14.9	54.9



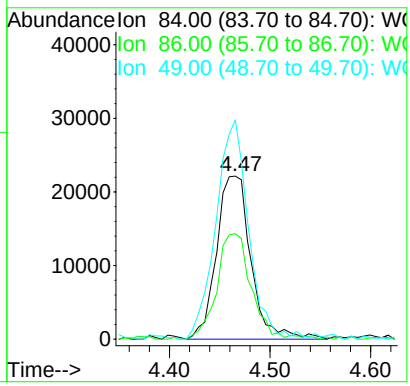
REASON # 2



#20
Methylchlorid
Concen: 2.13 ug/L
RT: 4.47 min Scan# 458
Delta R.T. 0.01 min
Lab File: WCAL2.D
Acq: 5 Oct 2016 23:50

Tgt Ion: 84 Resp: 52710

Ion	Ratio	Lower	Upper
84	100		
86	64.8	48.9	88.9
49	127.6	117.5	157.5



Before Manual Integration

AgK 10/19/16

REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL3.D Vial: 7
Acq On : 6 Oct 2016 00:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:29 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:20 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1570699	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1190733	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	593514	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.67	113	385850	20.228 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 101 %		
45) SURR12DCAd4	7.07	102	102073	20.091 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 100 %		
61) SURRd8Tolule	9.51	98	1578178	20.595 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 103 %		
83) SURR4BrFBenz	13.04	95	626325	20.182 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 101 %		

Target Compounds					Qvalue
2) Dichlorodi	1.76	85	96644	4.7851 ug/L	99
3) Chloromethan	1.99	50	232714	3.1969 ug/L	98
4) VinylChlorid	2.15	62	164117	4.8871 ug/L	97
5) Bromomethane	2.59	94	50712	5.7176 ug/L #	79
6) Chloroethane	2.74	64	102864	4.4599 ug/L	97
7) Dichloroflmethane	3.05	67	199762	4.3741 ug/L	99
8) Trichlorofma	3.13	101	144866	4.8020 ug/L	93
9) Ethylether	3.55	59	108267	4.6995 ug/L	98
10) dichlorotfluoroethan	3.57	67	118664	5.0791 ug/L	98
11) propyleneoxide	3.89	58	331514	40.8881 ug/L	96
12) Acrolein	3.68	56	262818	24.1171 ug/L	97
13) 11dichlorthe	3.83	96	107224	4.9570 ug/L	96
14) Trichlorotfluoroeth	3.88	101	191526	9.8074 ug/L	97
15) Acetone	3.89	43	973449	41.6128 ug/L	99
16) Iodomethane	4.01	142	142916	7.3843 ug/L	95
17) Carbon Dislf	4.09	76	560584	9.3731 ug/L	99
18) allylchloride	4.31	41	323903	8.8296 ug/L	96
19) methylacetate	4.36	74	65941	4.4431 ug/L	100
20) Methylchlorid	4.47	84	115725	3.5977 ug/L	97
21) tbutylalcohol	4.67	59	2147053	227.4899 ug/L	99
22) Acrylonitrile	4.76	53	403821	24.1885 ug/L	98
23) t12dichlorte	4.83	96	110967	4.6909 ug/L	98
24) MtBE	4.87	73	334565	4.9343 ug/L	97
25) Hexane	5.23	57	358128	9.8617 ug/L	97
26) 11dichlorota	5.36	63	214802	4.6126 ug/L	99
27) Vinylacetate	5.44	43	2597979	46.9659 ug/L	98
28) chloroprene	5.49	53	429564	9.4070 ug/L	97
29) Diisopether	5.51	45	372845	4.5472 ug/L	93
30) ETBE	5.96	59	386202	4.6256 ug/L	98
31) 22dichloropr	6.08	77	168912	4.7787 ug/L	97
32) c12dichlorte	6.08	96	126969	5.3511 ug/L	97
33) 2Butanone	6.10	72	339231	49.8092 ug/L	95
34) propionitrile	6.13	54	360045	48.0759 ug/L	98
35) Ethylacetate	6.21	88	44238	27.9580 ug/L #	79
36) methacrylonitrile	6.34	67	166843	10.2518 ug/L	97
37) Bromochlorma	6.37	128	45360	4.1682 ug/L	97
38) Tetrahydofur	6.45	42	817041	50.4371 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL3.D Vial: 7
Acq On : 6 Oct 2016 00:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:29 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:20 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.47	83	195318	4.4456 ug/L	100
40)	111trichlota	6.72	97	166159	4.6329 ug/L	99
42)	Cyclohexane	6.81	56	227641	4.5803 ug/L	99
43)	Carbtetraclo	6.94	119	113956	5.0645 ug/L	98
44)	11dicloprope	6.93	110	52591	4.8177 ug/L	96
46)	Benzene	7.17	78	452903	4.5839 ug/L	98
47)	12dichlorota	7.17	62	164909	4.9018 ug/L	98
48)	TAME	7.34	73	339291	4.7484 ug/L	99
49)	trichloroete	7.98	95	114664	4.7080 ug/L	98
50)	methylcyclohexane	8.24	83	190555	4.9594 ug/L	97
51)	12dicloropra	8.22	63	131592	4.7089 ug/L	97
52)	23Dicl1propene	8.29	75	178281	4.8408 ug/L	98
53)	Dibromometha	8.36	93	70663	4.4139 ug/L	96
54)	methylmethacrylate	8.40	69	121321	4.8230 ug/L	99
55)	14dioxane	8.41	88	88367	165.8574 ug/L	93
56)	Bromodiclrma	8.57	83	142836	4.7588 ug/L	99
57)	2Nitropropane	8.83	43	730634	46.6488 ug/L	98
58)	2CLEVE	8.95	63	49133	21.6141 ug/L	97
59)	c13dicloproe	9.14	75	182499	4.6599 ug/L	100
60)	4Meth2Pentan	9.34	43	2122933	46.4160 ug/L	97
62)	Toluene	9.59	92	278450	4.7330 ug/L	99
63)	t13Dicloprop	9.85	75	161040	4.5430 ug/L	96
64)	ethylmethacrylate	10.01	69	385926	9.1091 ug/L	99
65)	112Triclotha	10.08	83	86305	4.3976 ug/L	92
66)	Tetrachlorte	10.33	166	107477	5.2511 ug/L	96
67)	13Diclorpropa	10.31	76	183142	4.6509 ug/L	96
69)	2Hexanone	10.43	43	1816373	47.2560 ug/L	98
70)	Clorodibrmta	10.61	129	103145	4.8182 ug/L	99
71)	12Dibrometha	10.77	107	114508	4.7554 ug/L	97
72)	Chlorobenzen	11.45	112	281719	4.7235 ug/L	95
73)	1Clhexane	11.44	91	155198	4.0675 ug/L	97
74)	1112Tetclota	11.56	131	90824	4.5107 ug/L	98
75)	Ethylbenzene	11.61	91	518752	4.6375 ug/L	97
76)	m p-Xylene	11.77	106	373226	8.9454 ug/L	94
77)	o-Xylene	12.32	106	182975	4.5194 ug/L	100
78)	Styrene	12.34	104	312594	4.6196 ug/L	97
79)	Bromoform	12.56	173	69227	4.3610 ug/L	94
80)	Isopropylben	12.85	105	417876	4.4685 ug/L	100
81)	cyclohexanone	12.92	55	186602	79.9537 ug/L	99
84)	Bromobenzene	13.26	156	105802	4.4050 ug/L	93
85)	1122Tetrclta	13.22	83	171927	4.3629 ug/L	94
86)	123Triclproa	13.28	75	218358	4.6117 ug/L	99
87)	14dichloro2butene	13.31	53	59176	4.1674 ug/L	95
88)	n-Propylbenz	13.43	91	563698	4.6390 ug/L	99
89)	2chlorotolue	13.54	91	335753	4.9954 ug/L	98
90)	4chlorotolue	13.69	91	375254	4.4594 ug/L	98
91)	135Trimebenz	13.69	105	373374	4.6602 ug/L	99
92)	tbutylbenzen	14.15	119	299780	4.5981 ug/L	100
93)	124Trimetben	14.22	105	372035	4.5655 ug/L	96
94)	sbutylbenzen	14.47	105	464969	4.8322 ug/L	97
95)	13Diclorbenz	14.61	146	181564	4.7530 ug/L	98
96)	pIsopropylto	14.69	119	358136	4.7917 ug/L	98
97)	14dichlorobe	14.73	146	187389	4.4850 ug/L	94
98)	12dichlorobe	15.27	146	173227	4.3730 ug/L	98
99)	nButylbenzen	15.28	91	358220	4.5240 ug/L	98
100)	12dibromo3cl	16.37	157	45286	4.4042 ug/L	100
101)	135Trichlorobenzene	16.71	180	119442	4.4949 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL3.D Vial: 7
Acq On : 6 Oct 2016 00:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:29 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:20 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.52	180	100198	4.3448 ug/L	95
103) Hexachlorobu	17.78	225	43682	5.7073 ug/L	94
104) Naphthalene	17.82	128	420317	4.3727 ug/L	97
105) 123Trichlben	18.14	180	105823	4.6610 ug/L	95

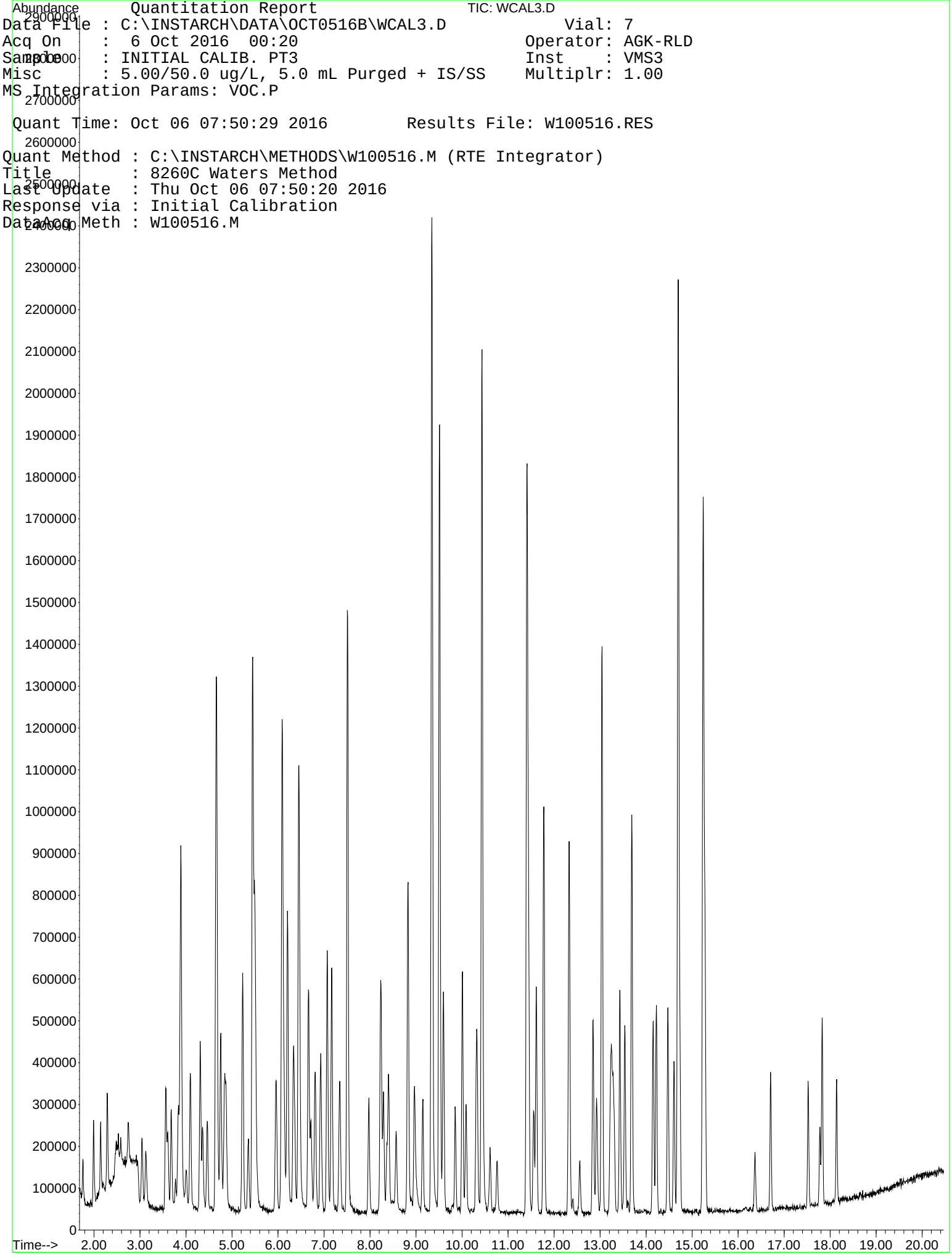
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL3.D Vial: 7
Acq On : 6 Oct 2016 00:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT3 Inst : VMS3
Misc : 5.00/50.0 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:29 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:20 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL4.D Vial: 8
Acq On : 6 Oct 2016 00:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:49 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:38 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1597837	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1181431	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	595363	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	383787	19.722 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 99 %		
45) SURR12DCAd4	7.07	102	105796	20.447 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 102 %		
61) SURRd8Tolule	9.51	98	1500509	19.107 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 96 %		
83) SURR4BrFBenz	13.04	95	629857	20.187 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 101 %		

Target Compounds					Qvalue
2) Dichlorodi	1.76	85	193282	9.5095 ug/L	100
3) Chloromethan	1.99	50	452959	6.7229 ug/L	100
4) VinylChlorid	2.15	62	327054	9.6280 ug/L	100
5) Bromomethane	2.59	94	77579	8.3004 ug/L	99
6) Chloroethane	2.74	64	196316	8.5994 ug/L	100
7) Dichloroflmethane	3.04	67	388989	8.6434 ug/L	100
8) Trichlorofma	3.13	101	293441	9.6573 ug/L	100
9) Ethylether	3.56	59	207113	8.9721 ug/L	100
10) dichlorotfluoroethan	3.56	67	230717	9.6693 ug/L	100
11) propyleneoxide	3.89	58	608209	77.2608 ug/L	99
12) Acrolein	3.68	56	478586	43.5554 ug/L	100
13) 11dichlorthe	3.83	96	201310	9.1683 ug/L	100
14) Trichlorotfluoroeth	3.87	101	382787	19.3616 ug/L	100
15) Acetone	3.89	43	1740640	76.3464 ug/L	100
16) Iodomethane	4.00	142	260842	14.1755 ug/L	100
17) Carbon Dislf	4.09	76	1082889	18.0821 ug/L	100
18) allylchloride	4.31	41	643943	17.7759 ug/L	100
19) methylacetate	4.36	74	126540	8.6215 ug/L	100
20) Methylchlorid	4.46	84	221873	7.2918 ug/L	100
21) tbutylalcohol	4.66	59	3250736	346.3771 ug/L	100
22) Acrylonitrile	4.75	53	742747	44.0921 ug/L	100
23) t12dichlorte	4.83	96	203154	8.5745 ug/L	100
24) MtBE	4.87	73	603532	8.7788 ug/L	100
25) Hexane	5.23	57	693236	18.8304 ug/L	100
26) 11dichlorota	5.35	63	399894	8.6082 ug/L	100
27) Vinylacetate	5.44	43	4410616	79.5876 ug/L	100
28) chloroprene	5.48	53	798045	17.4380 ug/L	100
29) Diisopether	5.51	45	701016	8.5991 ug/L	100
30) ETBE	5.96	59	724528	8.6932 ug/L	100
31) 22dichloropr	6.09	77	309202	8.6952 ug/L	100
32) c12dichlorte	6.08	96	226844	9.2358 ug/L	100
33) 2Butanone	6.10	72	563726	81.4436 ug/L	100
34) propionitrile	6.13	54	649994	86.1468 ug/L	100
35) Ethylacetate	6.21	88	73101	44.1097 ug/L	100
36) methacrylonitrile	6.33	67	299708	17.9898 ug/L	100
37) Bromochlorma	6.36	128	85626	8.0703 ug/L	100
38) Tetrahydofur	6.45	42	1380412	83.5848 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL4.D Vial: 8
Acq On : 6 Oct 2016 00:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:49 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:38 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.47	83	352062	8.1017 ug/L	100
40) 111trichlota	6.71	97	315908	8.8206 ug/L	100
42) Cyclohexane	6.81	56	464781	9.3900 ug/L	100
43) Carbtetraclo	6.94	119	235387	10.2505 ug/L	100
44) 11dicloprope	6.92	110	110159	10.0112 ug/L	100
46) Benzene	7.17	78	891000	9.0531 ug/L	100
47) 12dichlorota	7.16	62	319481	9.3811 ug/L	100
48) TAME	7.34	73	682843	9.5138 ug/L	100
49) trichloroete	7.97	95	227791	9.3303 ug/L	100
50) methylcyclohexane	8.24	83	372375	9.5463 ug/L	100
51) 12dicloropra	8.22	63	247680	8.8412 ug/L	100
52) 23Dicl1propene	8.29	75	330343	8.8881 ug/L	100
53) Dibromometha	8.36	93	129664	8.2022 ug/L	100
54) methylmethacrylate	8.40	69	230251	9.0783 ug/L	100
55) 14dioxane	8.41	88	133310	268.5592 ug/L	99
56) Bromodiclrma	8.57	83	265670	8.8071 ug/L	100
57) 2Nitropropane	8.83	43	1330019	84.8980 ug/L	100
58) 2CLEVE	8.96	63	126087	56.4358 ug/L	100
59) c13dicloproe	9.14	75	354587	9.0541 ug/L	100
60) 4Meth2Pentan	9.34	43	3561743	77.9485 ug/L	100
62) Toluene	9.59	92	531232	8.9964 ug/L	100
63) t13Dicloprop	9.85	75	305197	8.6614 ug/L	100
64) ethylmethacrylate	10.01	69	718882	17.0597 ug/L	100
65) 112Triclotha	10.09	83	171928	8.8791 ug/L	100
66) Tetrachlorte	10.33	166	196748	9.3323 ug/L	100
67) 13Diclorpropa	10.31	76	351458	8.9296 ug/L	100
69) 2Hexanone	10.43	43	3011696	80.0699 ug/L	100
70) Clorodibrmta	10.61	129	193685	9.2025 ug/L	100
71) 12Dibrometha	10.76	107	204969	8.6855 ug/L	100
72) Chlorobenzen	11.45	112	534970	9.1670 ug/L	100
73) 1Clhexane	11.43	91	314235	8.7065 ug/L	100
74) 1112Tetclota	11.56	131	183732	9.4273 ug/L	100
75) Ethylbenzene	11.61	91	978337	8.9776 ug/L	100
76) m p-Xylene	11.78	106	742987	18.4339 ug/L	100
77) o-Xylene	12.32	106	356357	9.0896 ug/L	100
78) Styrene	12.33	104	597046	9.0652 ug/L	100
79) Bromoform	12.56	173	141599	9.2871 ug/L	100
80) Isopropylben	12.85	105	844933	9.3550 ug/L	100
81) cyclohexanone	12.93	55	302658	137.5973 ug/L	100
84) Bromobenzene	13.26	156	216062	9.2426 ug/L	100
85) 1122Tetrclta	13.22	83	348392	9.1034 ug/L	100
86) 123Triclproa	13.28	75	432737	9.2913 ug/L	100
87) 14dichloro2butene	13.30	53	113094	8.2847 ug/L	100
88) n-Propylbenz	13.43	91	1097937	9.1731 ug/L	100
89) 2chlorotolue	13.54	91	631797	9.3730 ug/L	100
90) 4chlorotolue	13.69	91	753900	9.1794 ug/L	100
91) 135Trimebenz	13.69	105	736963	9.3282 ug/L	100
92) tbutylbenzen	14.16	119	603680	9.4200 ug/L	100
93) 124Trimetben	14.22	105	746969	9.3410 ug/L	100
94) sbutylbenzen	14.47	105	908400	9.4908 ug/L	100
95) 13Diclorbenz	14.61	146	363649	9.6087 ug/L	100
96) pIsopropylto	14.69	119	710352	9.5744 ug/L	100
97) 14dichlorobe	14.73	146	373017	9.1354 ug/L	100
98) 12dichlorobe	15.27	146	343259	8.9180 ug/L	100
99) nButylbenzen	15.28	91	712796	9.1928 ug/L	100
100) 12dibromo3cl	16.36	157	87454	8.7391 ug/L	100
101) 135Trichlorobenzene	16.70	180	238259	9.1700 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL4.D Vial: 8
Acq On : 6 Oct 2016 00:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:49 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:38 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.52	180	209336	9.3555	ug/L	100
103) Hexachlorobu	17.78	225	86783	10.9174	ug/L	100
104) Naphthalene	17.82	128	802940	8.5970	ug/L	100
105) 123Trichlben	18.14	180	194023	8.6661	ug/L	100

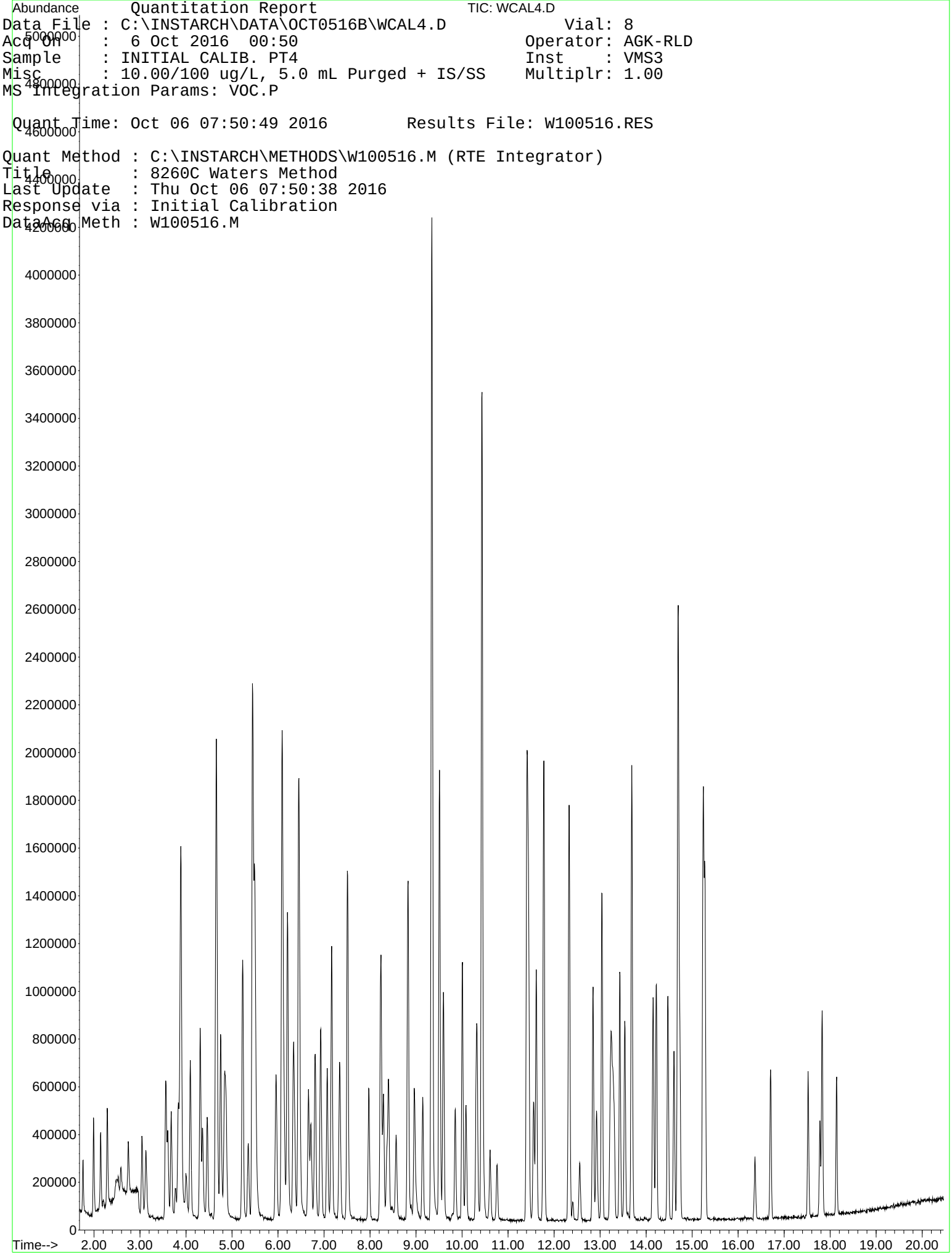
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL4.D Vial: 8
Acq On : 6 Oct 2016 00:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT4 Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:50:49 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:38 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL5.D Vial: 9
Acq On : 6 Oct 2016 1:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.00/200 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:05 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:57 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1554441	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1197799	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	612064	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	390792	20.625 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 103 %		
45) SURR12DCAd4	7.07	102	99317	19.714 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 99 %		
61) SURRd8Tolule	9.51	98	1569680	20.525 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 103 %		
83) SURR4BrFBenz	13.04	95	648116	20.205 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 101 %		

Target Compounds					Qvalue
2) Dichlorodi	1.76	85	350985	17.7360 ug/L	98
3) Chloromethan	1.99	50	823256	12.5527 ug/L	98
4) VinylChlorid	2.15	62	596366	18.0312 ug/L	99
5) Bromomethane	2.59	94	154071	16.8342 ug/L	92
6) Chloroethane	2.74	64	386082	17.3711 ug/L	96
7) Dichloroflmethane	3.04	67	727159	16.6151 ug/L	99
8) Trichlorofma	3.13	101	550535	18.6202 ug/L	97
9) Ethylether	3.56	59	394331	17.5457 ug/L	98
10) dichlorotfluoroethan	3.56	67	445292	19.1670 ug/L	96
11) propyleneoxide	3.89	58	1179229	153.8852 ug/L	92
12) Acrolein	3.68	56	936371	87.5519 ug/L	99
13) 11dichlorthe	3.83	96	361131	16.8929 ug/L	97
14) Trichlorotfluoroeth	3.88	101	697905	36.2743 ug/L	99
15) Acetone	3.89	43	3192728	143.8513 ug/L	96
16) Iodomethane	4.00	142	486789	27.0364 ug/L	99
17) Carbon Dislf	4.09	76	1967268	33.7402 ug/L	98
18) allylchloride	4.31	41	1115882	31.6648 ug/L	96
19) methylacetate	4.36	74	250403	17.5238 ug/L	100
20) Methylchlorid	4.46	84	430415	14.5312 ug/L	98
21) tbutylalcohol	4.66	59	5738840	628.1889 ug/L	96
22) Acrylonitrile	4.75	53	1454926	88.7132 ug/L	99
23) t12dichlorte	4.84	96	405874	17.5959 ug/L	99
24) MtBE	4.87	73	1207031	18.0336 ug/L	97
25) Hexane	5.23	57	1313858	36.6549 ug/L	98
26) 11dichlorota	5.35	63	786386	17.3875 ug/L	100
27) Vinylacetate	5.44	43	7256462	134.5419 ug/L	96
28) chloroprene	5.49	53	1544485	34.6646 ug/L	98
29) Diisopether	5.51	45	1364459	17.1918 ug/L	94
30) ETBE	5.96	59	1431259	17.6390 ug/L	100
31) 22dichloropr	6.08	77	608934	17.5819 ug/L	99
32) c12dichlorte	6.08	96	440120	18.4048 ug/L	97
33) 2Butanone	6.09	72	1149176	170.4899 ug/L	98
34) propionitrile	6.13	54	1334219	181.6319 ug/L	99
35) Ethylacetate	6.21	88	147437	91.3786 ug/L	95
36) methacrylonitrile	6.34	67	591799	36.5158 ug/L	96
37) Bromochlorma	6.36	128	163909	15.8687 ug/L	98
38) Tetrahydofur	6.45	42	2631163	163.5946 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL5.D Vial: 9
Acq On : 6 Oct 2016 1:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.00/200 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:05 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:57 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.47	83	700469	16.5578 ug/L		100
40)	111trichlota	6.72	97	643285	18.4488 ug/L		97
42)	Cyclohexane	6.81	56	851929	17.6778 ug/L		99
43)	Carbtetraclo	6.93	119	452939	20.2571 ug/L		97
44)	11dicloprope	6.92	110	195894	18.2839 ug/L	#	89
46)	Benzene	7.17	78	1631726	17.0289 ug/L		98
47)	12dichlorota	7.17	62	608728	18.3587 ug/L		100
48)	TAME	7.34	73	1239923	17.7407 ug/L		99
49)	trichloroete	7.98	95	439203	18.4770 ug/L		98
50)	methylcyclohexane	8.24	83	726082	19.1179 ug/L		99
51)	12dicloropra	8.22	63	498663	18.2805 ug/L		93
52)	23Dicl1propene	8.29	75	661506	18.2811 ug/L		97
53)	Dibromometha	8.36	93	278394	18.0840 ug/L		93
54)	methylmethacrylate	8.40	69	478025	19.3584 ug/L		99
55)	14dioxane	8.41	88	264023	546.2164 ug/L		98
56)	Bromodiclrma	8.57	83	537196	18.2844 ug/L		99
57)	2Nitropropane	8.83	43	2593636	170.0548 ug/L		99
58)	2CLEVE	8.96	63	254675	117.0593 ug/L		97
59)	c13dicloproe	9.15	75	675924	17.7223 ug/L		99
60)	4Meth2Pentan	9.34	43	6163628	138.5251 ug/L		93
62)	Toluene	9.59	92	1036552	18.0278 ug/L		100
63)	t13Dicloprop	9.85	75	606889	17.6910 ug/L		97
64)	ethylmethacrylate	10.01	69	1427040	34.7743 ug/L		99
65)	112Triclotha	10.09	83	340198	18.0366 ug/L		98
66)	Tetrachlorte	10.33	166	386718	18.8400 ug/L		96
67)	13Diclorpropa	10.31	76	701614	18.3071 ug/L		98
69)	2Hexanone	10.43	43	5391344	141.3772 ug/L		95
70)	Clorodibrmta	10.61	129	393759	18.4528 ug/L		97
71)	12Dibrometha	10.76	107	426465	17.8243 ug/L		98
72)	Chlorobenzen	11.45	112	1070421	18.0916 ug/L		99
73)	1Clhexane	11.43	91	619245	16.9229 ug/L		97
74)	1112Tetclota	11.56	131	382100	19.3377 ug/L		99
75)	Ethylbenzene	11.61	91	1893263	17.1360 ug/L		98
76)	m p-Xylene	11.78	106	1412213	34.5590 ug/L		98
77)	o-Xylene	12.32	106	710429	17.8733 ug/L		94
78)	Styrene	12.33	104	1195639	17.9058 ug/L		100
79)	Bromoform	12.56	173	297391	19.2384 ug/L		97
80)	Isopropylben	12.85	105	1630553	17.8066 ug/L		98
81)	cyclohexanone	12.92	55	612616	274.7075 ug/L		97
84)	Bromobenzene	13.25	156	421474	17.5377 ug/L		95
85)	1122Tetrclta	13.22	83	702272	17.8496 ug/L		99
86)	123Triclproa	13.28	75	902698	18.8530 ug/L		98
87)	14dichloro2butene	13.30	53	237308	16.9096 ug/L		97
88)	n-Propylbenz	13.43	91	2118506	17.2168 ug/L		97
89)	2chlorotolue	13.54	91	1261810	18.2088 ug/L		98
90)	4chlorotolue	13.69	91	1457775	17.2653 ug/L		98
91)	135Trimebenz	13.69	105	1463942	18.0244 ug/L		99
92)	tbutylbenzen	14.15	119	1195244	18.1419 ug/L		100
93)	124Trimetben	14.22	105	1459069	17.7481 ug/L		96
94)	sbutylbenzen	14.47	105	1762991	17.9169 ug/L		98
95)	13Diclorbenz	14.61	146	733791	18.8599 ug/L		98
96)	pIsopropylto	14.69	119	1397808	18.3260 ug/L		99
97)	14dichlorobe	14.73	146	750513	17.8790 ug/L		98
98)	12dichlorobe	15.27	146	693752	17.5321 ug/L		97
99)	nButylbenzen	15.28	91	1388013	17.4125 ug/L		98
100)	12dibromo3cl	16.36	157	179966	17.4929 ug/L		100
101)	135Trichlorobenzene	16.71	180	485563	18.1782 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL5.D Vial: 9
Acq On : 6 Oct 2016 1:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.00/200 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:05 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:57 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.52	180	428583	18.6314 ug/L	99
103) Hexachlorobu	17.78	225	174590	21.3643 ug/L	98
104) Naphthalene	17.82	128	1626601	16.9407 ug/L	99
105) 123Trichlben	18.14	180	406610	17.6659 ug/L	100

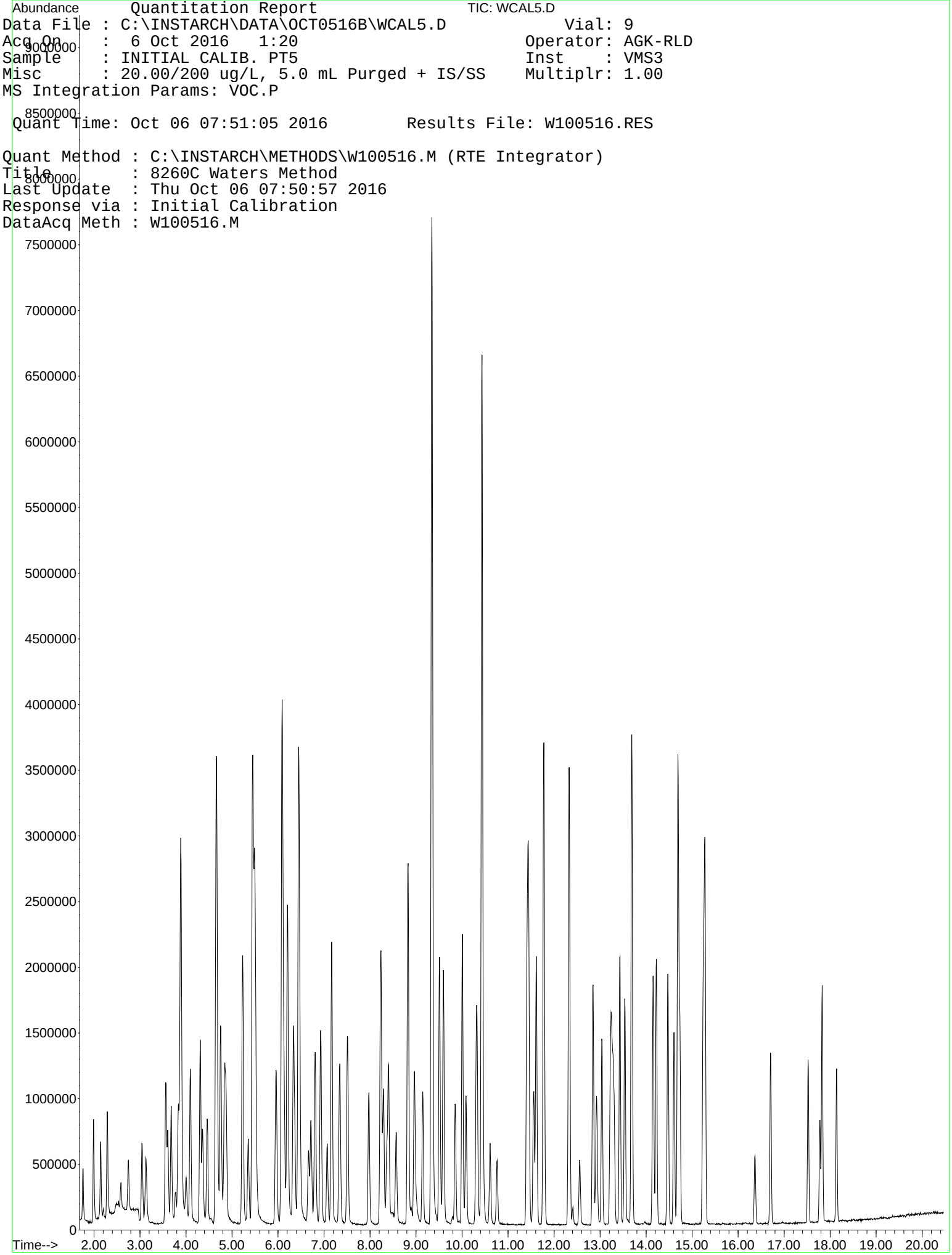
(#) = qualifier out of range (m) = manual integration
WCAL5.D W100516.M Wed Oct 19 11:53:41 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL5.D Vial: 9
Acq On : 6 Oct 2016 1:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT5 Inst : VMS3
Misc : 20.00/200 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:05 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:50:57 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL6.D Vial: 10
Acq On : 6 Oct 2016 1:51 Operator: AGK-RLD
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:23 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:15 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1529750	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1164821	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	610909	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	386115	20.578 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 103 %		
45) SURR12DCAd4	7.07	102	99184	20.062 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 100 %		
61) SURRd8Tolule	9.51	98	1526769	20.180 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 101 %		
83) SURR4BrFBenz	13.04	95	656519	20.464 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 102 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.76	85	514718	27.0418 ug/L	99
3) Chloromethan	1.99	50	1109818	18.5788 ug/L	98
4) VinylChlorid	2.15	62	854795	26.7894 ug/L	97
5) Bromomethane	2.58	94	224856	25.7810 ug/L	95
6) Chloroethane	2.74	64	543162	25.5035 ug/L	97
7) Dichloroflmethane	3.04	67	1040415	25.0029 ug/L	98
8) Trichlorofma	3.13	101	777368	27.0904 ug/L	97
9) Ethylether	3.56	59	575220	26.6618 ug/L	98
10) dichlorotfluoroethan	3.57	67	621031	27.3911 ug/L	97
11) propyleneoxide	3.89	58	1572031	218.5332 ug/L	92
12) Acrolein	3.67	56	1292658	125.9517 ug/L	98
13) 11dichlorthe	3.83	96	540236	26.5024 ug/L	98
14) Trichlorotfluoroeth	3.88	101	1005112	54.0926 ug/L	99
15) Acetone	3.89	43	4282975	207.7531 ug/L	97
16) Iodomethane	4.00	142	735687	44.3975 ug/L	100
17) Carbon Dislf	4.09	76	2741202	49.3161 ug/L	97
18) allylchloride	4.31	41	1491050	44.8634 ug/L	96
19) methylacetate	4.36	74	363504	26.5059 ug/L	95
20) Methylchlorid	4.46	84	616606	22.3770 ug/L	99
21) tbutylalcohol	4.66	59	7534484	905.3830 ug/L	92
22) Acrylonitrile	4.75	53	1994421	126.4253 ug/L	98
23) t12dichlorte	4.84	96	594883	26.8519 ug/L	97
24) MtBE	4.87	73	1715443	26.5656 ug/L	97
25) Hexane	5.23	57	1851880	53.3919 ug/L	97
26) 11dichlorota	5.35	63	1148402	26.4939 ug/L	100
27) Vinylacetate	5.44	43	8987348	181.1837 ug/L	92
28) chloroprene	5.49	53	2200318	51.5566 ug/L	99
29) Diisopether	5.51	45	2061795	27.1601 ug/L	91
30) ETBE	5.96	59	2056402	26.3752 ug/L	99
31) 22dichloropr	6.08	77	856826	25.7615 ug/L	99
32) c12dichlorte	6.08	96	646775	27.9287 ug/L	97
33) 2Butanone	6.10	72	1574202	244.5318 ug/L	97
34) propionitrile	6.13	54	1866524	263.0290 ug/L	99
35) Ethylacetate	6.21	88	205017	131.3819 ug/L	94
36) methacrylonitrile	6.33	67	860264	54.8939 ug/L	97
37) Bromochlorma	6.36	128	224981	23.0867 ug/L	96
38) Tetrahydofur	6.45	42	3537377	231.9328 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL6.D Vial: 10
Acq On : 6 Oct 2016 1:51 Operator: AGK-RLD
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:23 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:15 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.48	83	1003223	24.9561 ug/L	99
40)	111trichlota	6.72	97	924620	27.3698 ug/L	99
42)	Cyclohexane	6.81	56	1233556	26.6281 ug/L	99
43)	Carbtetraclo	6.94	119	681049	30.8712 ug/L	99
44)	11dicloprope	6.92	110	294169	28.3868 ug/L	98
46)	Benzene	7.17	78	2309147	25.2373 ug/L	97
47)	12dichlorota	7.16	62	875439	27.2762 ug/L	98
48)	TAME	7.34	73	1769951	26.3279 ug/L	98
49)	trichloroete	7.98	95	638915	27.7350 ug/L	98
50)	methylcyclohexane	8.24	83	1050527	28.3572 ug/L	99
51)	12dicloropra	8.23	63	721614	27.3510 ug/L	92
52)	23Dicl1propene	8.29	75	953257	27.2372 ug/L	99
53)	Dibromometha	8.36	93	392832	26.4360 ug/L	96
54)	methylmethacrylate	8.40	69	687224	28.4621 ug/L	98
55)	14dioxane	8.41	88	454781	1051.4751 ug/L	95
56)	Bromodiclrma	8.57	83	795554	27.9954 ug/L	98
57)	2Nitropropane	8.83	43	3461091	237.7116 ug/L	97
58)	2CLEVE	8.96	63	380297	171.7616 ug/L	98
59)	c13dicloproe	9.14	75	995381	27.1376 ug/L	100
60)	4Meth2Pentan	9.34	43	7666258	186.5449 ug/L	87
62)	Toluene	9.59	92	1484248	26.7586 ug/L	98
63)	t13Dicloprop	9.85	75	888395	26.9369 ug/L	99
64)	ethylmethacrylate	10.01	69	2007220	51.0352 ug/L	97
65)	112Triclotha	10.09	83	495448	27.2262 ug/L	98
66)	Tetrachlorte	10.33	166	585690	29.3343 ug/L	99
67)	13Diclorpropa	10.31	76	1014797	27.3697 ug/L	99
69)	2Hexanone	10.43	43	6681407	191.3866 ug/L	90
70)	Clorodibrmta	10.61	129	584588	28.6140 ug/L	98
71)	12Dibrometha	10.76	107	617615	27.1347 ug/L	100
72)	Chlorobenzen	11.45	112	1530971	27.1258 ug/L	99
73)	1Clhexane	11.44	91	878209	25.4629 ug/L	97
74)	1112Tetclota	11.56	131	543330	28.4644 ug/L	98
75)	Ethylbenzene	11.61	91	2684486	25.7219 ug/L	98
76)	m p-Xylene	11.78	106	2018634	52.2182 ug/L	93
77)	o-Xylene	12.32	106	1028493	27.1860 ug/L	92
78)	Styrene	12.33	104	1699975	26.7395 ug/L	98
79)	Bromoform	12.56	173	437715	29.3412 ug/L	96
80)	Isopropylben	12.85	105	2303386	26.4465 ug/L	97
81)	cyclohexanone	12.92	55	959042	471.7816 ug/L	98
84)	Bromobenzene	13.25	156	611207	26.1239 ug/L	96
85)	1122Tetrclta	13.22	83	966067	25.1415 ug/L	96
86)	123Triclproa	13.28	75	1275321	26.9953 ug/L	99
87)	14dichloro2butene	13.30	53	332098	24.4648 ug/L	99
88)	n-Propylbenz	13.43	91	2952950	24.7319 ug/L	95
89)	2chlorotolue	13.54	91	1820797	26.8052 ug/L	97
90)	4chlorotolue	13.69	91	2070327	25.2572 ug/L	97
91)	135Trimebenz	13.69	105	2052920	25.8342 ug/L	97
92)	tbutylbenzen	14.15	119	1706859	26.4479 ug/L	98
93)	124Trimetben	14.22	105	2062389	25.7133 ug/L	95
94)	sbutylbenzen	14.47	105	2503896	26.0370 ug/L	97
95)	13Diclorbenz	14.61	146	1070860	27.8933 ug/L	98
96)	pIsopropylto	14.69	119	2006118	26.7997 ug/L	98
97)	14dichlorobe	14.73	146	1076012	26.2381 ug/L	98
98)	12dichlorobe	15.26	146	1007689	26.1595 ug/L	97
99)	nButylbenzen	15.28	91	1953093	25.1998 ug/L	95
100)	12dibromo3cl	16.36	157	251475	25.1196 ug/L	96
101)	135Trichlorobenzene	16.71	180	715685	27.3421 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL6.D Vial: 10
Acq On : 6 Oct 2016 1:51 Operator: AGK-RLD
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:23 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:15 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.52	180	642304	28.3633 ug/L	98
103) Hexachlorobu	17.78	225	253706	30.6856 ug/L	98
104) Naphthalene	17.82	128	2238336	24.0929 ug/L	98
105) 123Trichlben	18.14	180	602871	26.8695 ug/L	98

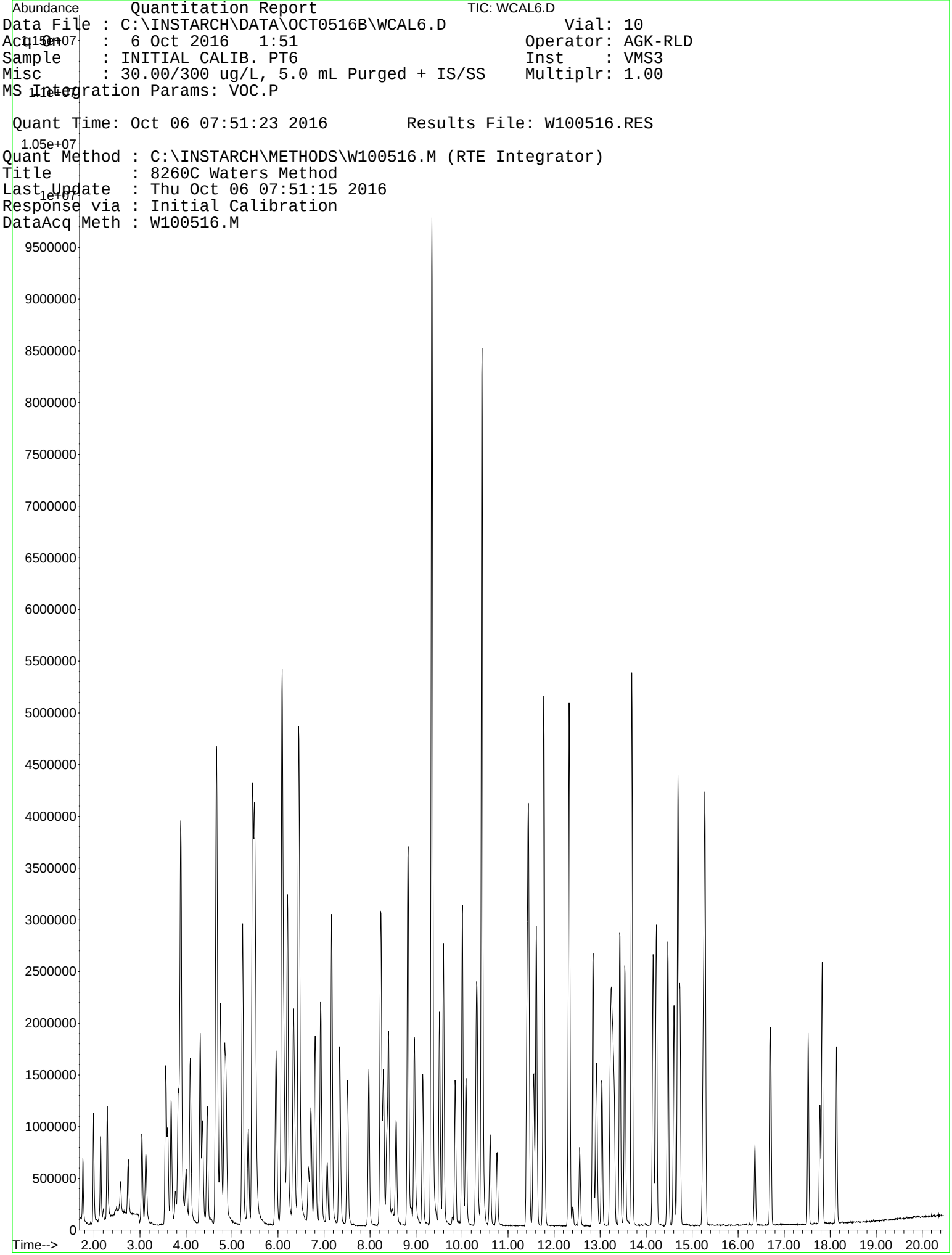
(#) = qualifier out of range (m) = manual integration
WCAL6.D W100516.M Wed Oct 19 11:53:44 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL6.D Vial: 10
Acq On : 6 Oct 2016 1:51 Operator: AGK-RLD
Sample : INITIAL CALIB. PT6 Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:23 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:15 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL7.D Vial: 11
Acq On : 6 Oct 2016 2:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.00/400 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:19:11 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:18:59 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1447137	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1109316	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	582891	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.67	113	361242	20.122 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 101 %		
45) SURR12DCAd4	7.08	102	95108	20.259 ug/L	0.01
Spiked Amount 20.000	Range 89 - 112		Recovery = 101 %		
61) SURRd8Tolule	9.51	98	1457383	20.314 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 102 %		
83) SURR4BrFBenz	13.04	95	604920	19.745 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 99 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.76	85	639980	37.3888 ug/L	98
3) Chloromethan	1.99	50	1535584	35.9580 ug/L	97
4) VinylChlorid	2.14	62	1251171	42.8681 ug/L	98
5) Bromomethane	2.59	94	312055	39.6581 ug/L	96
6) Chloroethane	2.74	64	726104	40.1040 ug/L	97
7) Dichloroflmethane	3.04	67	1696597	47.4838 ug/L	98
8) Trichlorofma	3.12	101	1272084	47.2356 ug/L	97
9) Ethylether	3.56	59	974763	50.1785 ug/L	86
10) dichlorotfluoroethan	3.56	67	1002275	46.9926 ug/L	93
11) propyleneoxide	3.91	58	2501514	427.7459 ug/L #	74
12) Acrolein	3.68	56	2362622	256.4551 ug/L	96
13) 11dichlorthe	3.82	96	774824	41.5882 ug/L #	72
14) Trichlorotfluoroeth	3.86	101	1451180	84.9956 ug/L	99
15) Acetone	3.91	43	5488379	357.1276 ug/L	86
16) Iodomethane	3.99	142	1064614	76.9925 ug/L	92
17) Carbon Dislf	4.08	76	3857821	81.2137 ug/L	95
18) allylchloride	4.30	41	2166652	78.5759 ug/L	96
19) methylacetate	4.37	74	541868	46.9533 ug/L	81
20) Methylchlorid	4.45	84	751826	34.7704 ug/L	90
21) tbutylalcohol	4.71	59	8508808	1356.4695 ug/L	87
22) Acrylonitrile	4.76	53	2703032	193.0788 ug/L	99
23) t12dichlorte	4.83	96	718771	36.2384 ug/L	99
24) MtBE	4.88	73	2135954	37.0365 ug/L	98
25) Hexane	5.23	57	2200702	71.4753 ug/L	97
26) 11dichlorota	5.35	63	1418724	36.6414 ug/L	98
27) Vinylacetate	5.45	43	10504922	287.7910 ug/L	87
28) chloroprene	5.48	53	2637995	72.7801 ug/L	98
29) Diisopether	5.52	45	2433271	37.0777 ug/L	93
30) ETBE	5.97	59	2555330	38.2655 ug/L	98
31) 22dichloropr	6.08	77	1036957	36.2119 ug/L	98
32) c12dichlorte	6.08	96	797858	37.7865 ug/L	97
33) 2Butanone	6.11	72	1921151	352.9818 ug/L	95
34) propionitrile	6.14	54	2320266	365.7847 ug/L	99
35) Ethylacetate	6.22	88	275842	193.4583 ug/L #	89
36) methacrylonitrile	6.35	67	1085697	75.8465 ug/L	98
37) Bromochlorma	6.36	128	284871	36.1075 ug/L	90
38) Tetrahydofur	6.46	42	4419427	349.0139 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL7.D Vial: 11
Acq On : 6 Oct 2016 2:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.00/400 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:19:11 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:18:59 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.48	83	1260102	37.2020 ug/L	99
40)	111trichlota	6.72	97	1118087	36.6334 ug/L	98
42)	Cyclohexane	6.80	56	1492803	36.0827 ug/L	97
43)	Carbtetraclo	6.94	119	818720	39.2567 ug/L	99
44)	11dicloprope	6.92	110	361040	37.8911 ug/L	98
46)	Benzene	7.17	78	2813562	36.3323 ug/L	95
47)	12dichlorota	7.17	62	1113081	38.1193 ug/L	98
48)	TAME	7.35	73	2241495	37.3798 ug/L	98
49)	trichloroete	7.98	95	763807	36.6195 ug/L	99
50)	methylcyclohexane	8.24	83	1356174	39.7812 ug/L	100
51)	12dicloropra	8.23	63	958965	39.6244 ug/L	90
52)	23Dicl1propene	8.29	75	1253196	39.2555 ug/L	96
53)	Dibromometha	8.36	93	533623	41.0945 ug/L	96
54)	methylmethacrylate	8.40	69	873491	39.2106 ug/L	98
55)	14dioxane	8.43	88	552274	1683.0141 ug/L	96
56)	Bromodiclrma	8.57	83	1040692	39.7685 ug/L	99
57)	2Nitropropane	8.83	43	4528361	370.2879 ug/L	96
58)	2CLEVE	8.96	63	488420	211.9604 ug/L	99
59)	c13dicloproe	9.15	75	1235019	37.3053 ug/L	100
60)	4Meth2Pentan	9.35	43	8584985	276.8030 ug/L	81
62)	Toluene	9.59	92	1807760	36.5793 ug/L	95
63)	t13Dicloprop	9.86	75	1124517	37.6592 ug/L	98
64)	ethylmethacrylate	10.01	69	2471456	75.1825 ug/L	96
65)	112Triclotha	10.09	83	626305	37.6860 ug/L	99
66)	Tetrachlorte	10.33	166	695960	37.7709 ug/L	98
67)	13Diclorpropa	10.31	76	1251998	37.3769 ug/L	99
69)	2Hexanone	10.43	43	7608367	287.1285 ug/L	86
70)	Clorodibrmta	10.61	129	727636	38.3987 ug/L	97
71)	12Dibrometha	10.76	107	763432	36.8437 ug/L	100
72)	Chlorobenzen	11.45	112	1840351	36.2821 ug/L	98
73)	1Clhexane	11.43	91	1056819	37.2573 ug/L	97
74)	1112Tetclota	11.56	131	683898	38.5768 ug/L	100
75)	Ethylbenzene	11.61	91	3188769	35.2882 ug/L	96
76)	m p-Xylene	11.78	106	2417841	70.7458 ug/L	90
77)	o-Xylene	12.32	106	1241152	36.2421 ug/L	93
78)	Styrene	12.33	104	2053090	36.1135 ug/L	96
79)	Bromoform	12.56	173	543562	38.7155 ug/L	99
80)	Isopropylben	12.85	105	2745088	35.6410 ug/L	96
81)	cyclohexanone	12.93	55	1262676	708.8643 ug/L	99
84)	Bromobenzene	13.25	156	766134	36.9793 ug/L	97
85)	1122Tetrclta	13.22	83	1217164	37.0279 ug/L	96
86)	123Triclproa	13.29	75	1623604	37.6889 ug/L	99
87)	14dichloro2butene	13.30	53	453324	40.1579 ug/L	98
88)	n-Propylbenz	13.43	91	3475563	34.6230 ug/L	93
89)	2chlorotolue	13.54	91	2210237	36.2480 ug/L	98
90)	4chlorotolue	13.69	91	2500038	36.0372 ug/L	96
91)	135Trimebenz	13.69	105	2482390	35.9922 ug/L	97
92)	tbutylbenzen	14.15	119	2042172	35.5228 ug/L	98
93)	124Trimetben	14.22	105	2477147	35.8760 ug/L	93
94)	sbutylbenzen	14.47	105	2968317	36.0891 ug/L	96
95)	13Diclorbenz	14.61	146	1320233	37.6173 ug/L	98
96)	pIsopropylto	14.69	119	2427367	36.2888 ug/L	98
97)	14dichlorobe	14.73	146	1321136	36.6948 ug/L	97
98)	12dichlorobe	15.27	146	1226754	36.0968 ug/L	99
99)	nButylbenzen	15.28	91	2379222	36.6186 ug/L	95
100)	12dibromo3cl	16.36	157	359319	40.3979 ug/L	100
101)	135Trichlorobenzene	16.71	180	998459	41.3094 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL7.D Vial: 11
Acq On : 6 Oct 2016 2:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.00/400 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:19:11 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:18:59 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.52	180	798642	38.2138	ug/L	99
103) Hexachlorobu	17.78	225	316275	40.3568	ug/L	100
104) Naphthalene	17.82	128	2819544	36.4219	ug/L	96
105) 123Trichlben	18.14	180	735446	37.2927	ug/L	99

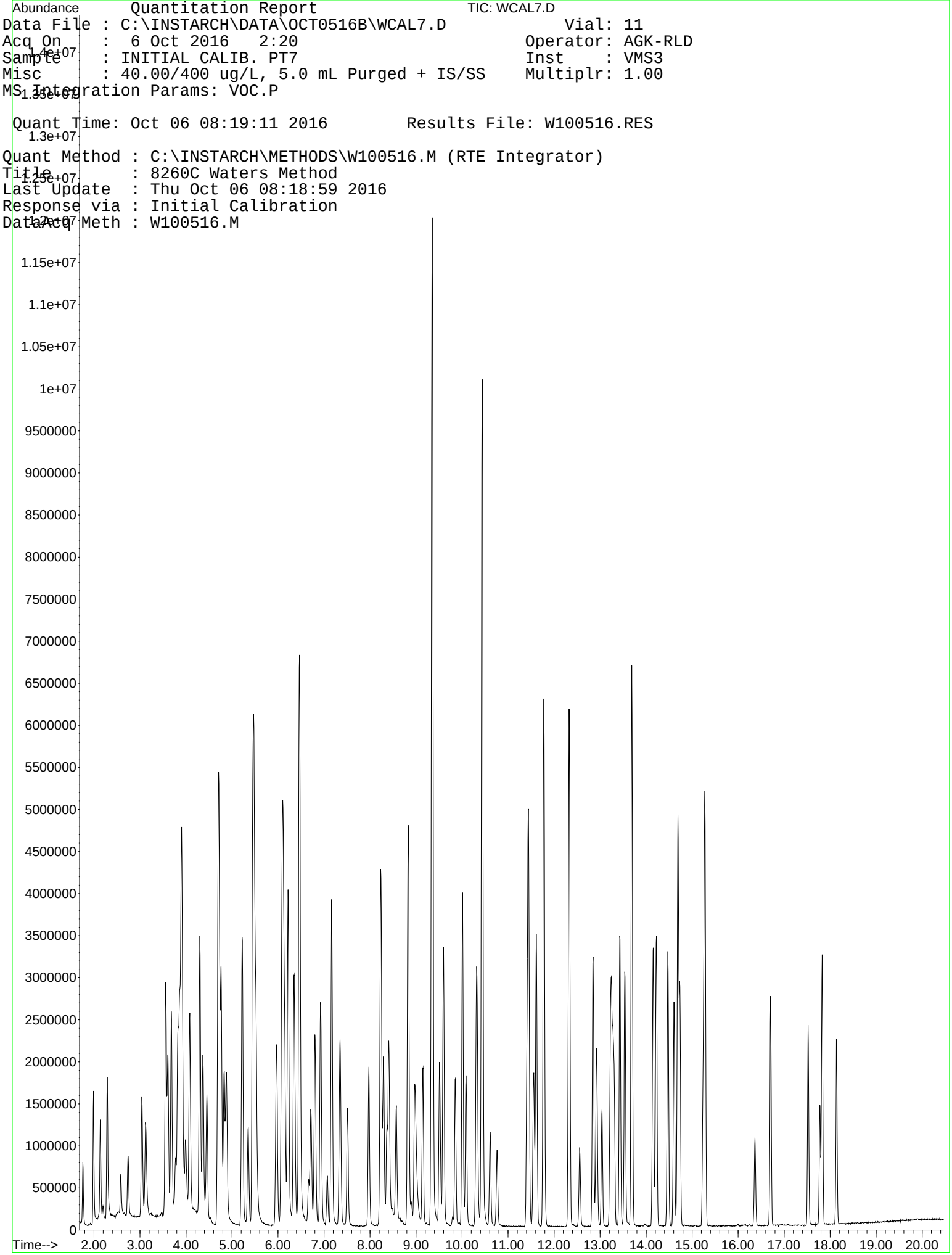
(#) = qualifier out of range (m) = manual integration
WCAL7.D W100516.M Wed Oct 19 11:53:47 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL7.D Vial: 11
Acq On : 6 Oct 2016 2:20 Operator: AGK-RLD
Sample : INITIAL CALIB. PT7 Inst : VMS3
Misc : 40.00/400 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:19:11 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:18:59 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL8.D Vial: 12
Acq On : 6 Oct 2016 2:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.00/800 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:55 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:47 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1529271	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1170908	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	619220	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	391903	20.755 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 104 %		
45) SURR12DCAd4	7.07	102	99900	20.156 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 101 %		
61) SURRd8Tolule	9.51	98	1501007	19.769 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 99 %		
83) SURR4BrFBenz	13.04	95	647570	19.882 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 99 %		

Target Compounds					Qvalue
2) Dichlorodi	1.76	85	1240545	67.2120 ug/L	98
3) Chloromethan	1.99	50	2745054	51.0864 ug/L	93
4) VinylChlorid	2.15	62	2057273	65.1541 ug/L	95
5) Bromomethane	2.57	94	575179	67.8596 ug/L	93
6) Chloroethane	2.74	64	1431271	69.7030 ug/L	98
7) Dichloroflmethane	3.04	67	2577610	62.7623 ug/L	98
8) Trichlorofma	3.13	101	1978383	68.2392 ug/L	98
9) Ethylether	3.56	59	1498581	66.6938 ug/L	98
10) dichlorotfluoroethan	3.57	67	1584742	69.1157 ug/L	97
11) propyleneoxide	3.89	58	4051658	581.3220 ug/L #	63
12) Acrolein	3.67	56	3317612	316.7158 ug/L	97
13) 11dichlorthe	3.83	96	1371513	68.3986 ug/L	99
14) Trichlorotfluoroeth	3.87	101	2487615	135.2034 ug/L	98
15) Acetone	3.89	43	8683324	446.0461 ug/L	80
16) Iodomethane	4.00	142	1894832	121.5227 ug/L	96
17) Carbon Dislf	4.09	76	5908598	110.4509 ug/L	91
18) allylchloride	4.31	41	3205061	97.8554 ug/L	95
19) methylacetate	4.36	74	963654	71.0229 ug/L	98
20) Methylchlorid	4.46	84	1560165	61.3054 ug/L	99
21) tbutylalcohol	4.67	59	12924432	1769.9981 ug/L	68
22) Acrylonitrile	4.75	53	4770636	313.7781 ug/L	94
23) t12dichlorte	4.83	96	1450651	67.9013 ug/L	98
24) MtBE	4.87	73	4095853	65.7047 ug/L	97
25) Hexane	5.23	57	4320519	129.6373 ug/L	93
26) 11dichlorota	5.35	63	2793795	66.8804 ug/L	95
27) Vinylacetate	5.44	43	14533925	332.8657 ug/L	73
28) chloroprene	5.49	53	4977425	122.3261 ug/L	97
29) Diisopether	5.51	45	4893103	66.8412 ug/L	94
30) ETBE	5.96	59	4734692	63.0393 ug/L	93
31) 22dichloropr	6.09	77	2137020	67.3245 ug/L	96
32) c12dichlorte	6.08	96	1609689	71.1420 ug/L	97
33) 2Butanone	6.10	72	3843900	633.1252 ug/L	88
34) propionitrile	6.13	54	4645035	679.9521 ug/L	94
35) Ethylacetate	6.21	88	572183	377.0128 ug/L #	87
36) methacrylonitrile	6.34	67	2241202	146.6110 ug/L	95
37) Bromochlorma	6.36	128	603369	66.2699 ug/L	93
38) Tetrahydofur	6.45	42	7704480	540.9472 ug/L	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL8.D Vial: 12
Acq On : 6 Oct 2016 2:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.00/800 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:55 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:47 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Chloroform	6.47	83	2513041	65.7237	ug/L		97
40)	111trichlota	6.72	97	2305327	70.4042	ug/L		98
42)	Cyclohexane	6.81	56	3012842	67.5746	ug/L		99
43)	Carbtetraclo	6.94	119	1737561	78.6763	ug/L		99
44)	11dicloprope	6.92	110	753141	74.1082	ug/L		98
46)	Benzene	7.17	78	5140057	59.1178	ug/L		89
47)	12dichlorota	7.16	62	2228250	71.2211	ug/L		96
48)	TAME	7.34	73	4217764	64.9989	ug/L		93
49)	trichloroete	7.98	95	1577496	70.5070	ug/L		99
50)	methylcyclohexane	8.24	83	2575762	70.4286	ug/L		97
51)	12dicloropra	8.23	63	1867390	72.1170	ug/L		89
52)	23Dicl1propene	8.29	75	2406166	70.2353	ug/L		95
53)	Dibromometha	8.36	93	1031309	71.1504	ug/L		95
54)	methylmethacrylate	8.40	69	1733177	72.7940	ug/L		98
55)	14dioxane	8.41	88	1216182	3088.0882	ug/L		98
56)	Bromodiclrma	8.57	83	2014853	71.9420	ug/L		99
57)	2Nitropropane	8.83	43	7346728	534.1731	ug/L		92
58)	2CLEVE	8.96	63	1319363	570.7205	ug/L		99
59)	c13dicloproe	9.14	75	2459462	69.1042	ug/L		97
60)	4Meth2Pentan	9.34	43	11648705	321.4795	ug/L	#	61
62)	Toluene	9.60	92	3466390	64.7972	ug/L		87
63)	t13Dicloprop	9.85	75	2262186	70.6417	ug/L		98
64)	ethylmethacrylate	10.01	69	4555948	121.4093	ug/L		92
65)	112Triclotha	10.09	83	1318674	74.4324	ug/L		97
66)	Tetrachlorte	10.33	166	1445634	73.4878	ug/L		97
67)	13Diclorpropa	10.31	76	2476835	68.7406	ug/L		97
69)	2Hexanone	10.43	43	10429963	335.0153	ug/L		72
70)	Clorodibrmta	10.61	129	1483166	73.3859	ug/L		96
71)	12Dibrometha	10.76	107	1578392	71.1718	ug/L		100
72)	Chlorobenzen	11.45	112	3582619	65.3873	ug/L		95
73)	1Clhexane	11.44	91	2187391	66.3812	ug/L		98
74)	1112Tetclota	11.56	131	1400707	74.1724	ug/L		98
75)	Ethylbenzene	11.61	91	5627476	56.3834	ug/L		87
76)	m p-Xylene	11.78	106	4571653	123.0739	ug/L	#	75
77)	o-Xylene	12.33	106	2545610	69.2385	ug/L	#	80
78)	Styrene	12.33	104	3950595	64.2109	ug/L		91
79)	Bromoform	12.56	173	1165200	78.4341	ug/L		100
80)	Isopropylben	12.85	105	5040065	60.0647	ug/L		88
81)	cyclohexanone	12.92	55	2482299	1288.0821	ug/L		96
84)	Bromobenzene	13.25	156	1549538	67.9744	ug/L		97
85)	1122Tetrclta	13.22	83	2420526	65.2418	ug/L		93
86)	123Triclproa	13.28	75	3238232	69.6107	ug/L		98
87)	14dichloro2butene	13.30	53	965282	73.4007	ug/L		99
88)	n-Propylbenz	13.43	91	6146949	53.9755	ug/L		83
89)	2chlorotolue	13.54	91	4298535	64.7823	ug/L		91
90)	4chlorotolue	13.69	91	4675075	59.3101	ug/L		88
91)	135Trimebenz	13.69	105	4617884	60.0816	ug/L		89
92)	tbutylbenzen	14.16	119	3967791	63.2707	ug/L		95
93)	124Trimetben	14.22	105	4594717	59.3456	ug/L		86
94)	sbutylbenzen	14.47	105	5347476	57.5168	ug/L		88
95)	13Diclorbenz	14.61	146	2596717	68.3831	ug/L		95
96)	pIsopropylto	14.69	119	4548392	62.2314	ug/L		90
97)	14dichlorobe	14.73	146	2614740	65.5373	ug/L		95
98)	12dichlorobe	15.27	146	2465388	65.9064	ug/L		99
99)	nButylbenzen	15.28	91	4426668	59.3648	ug/L		89
100)	12dibromo3cl	16.37	157	716173	72.8920	ug/L		99
101)	135Trichlorobenzene	16.71	180	1764724	67.3727	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL8.D Vial: 12
Acq On : 6 Oct 2016 2:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.00/800 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:55 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:47 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.52	180	1594756	70.7969	ug/L	99
103) Hexachlorobu	17.78	225	618384	73.5252	ug/L	98
104) Naphthalene	17.82	128	4845456	54.5880	ug/L	91
105) 123Trichlben	18.14	180	1481507	67.5111	ug/L	99

(#) = qualifier out of range (m) = manual integration
WCAL8.D W100516.M Wed Oct 19 11:53:49 2016

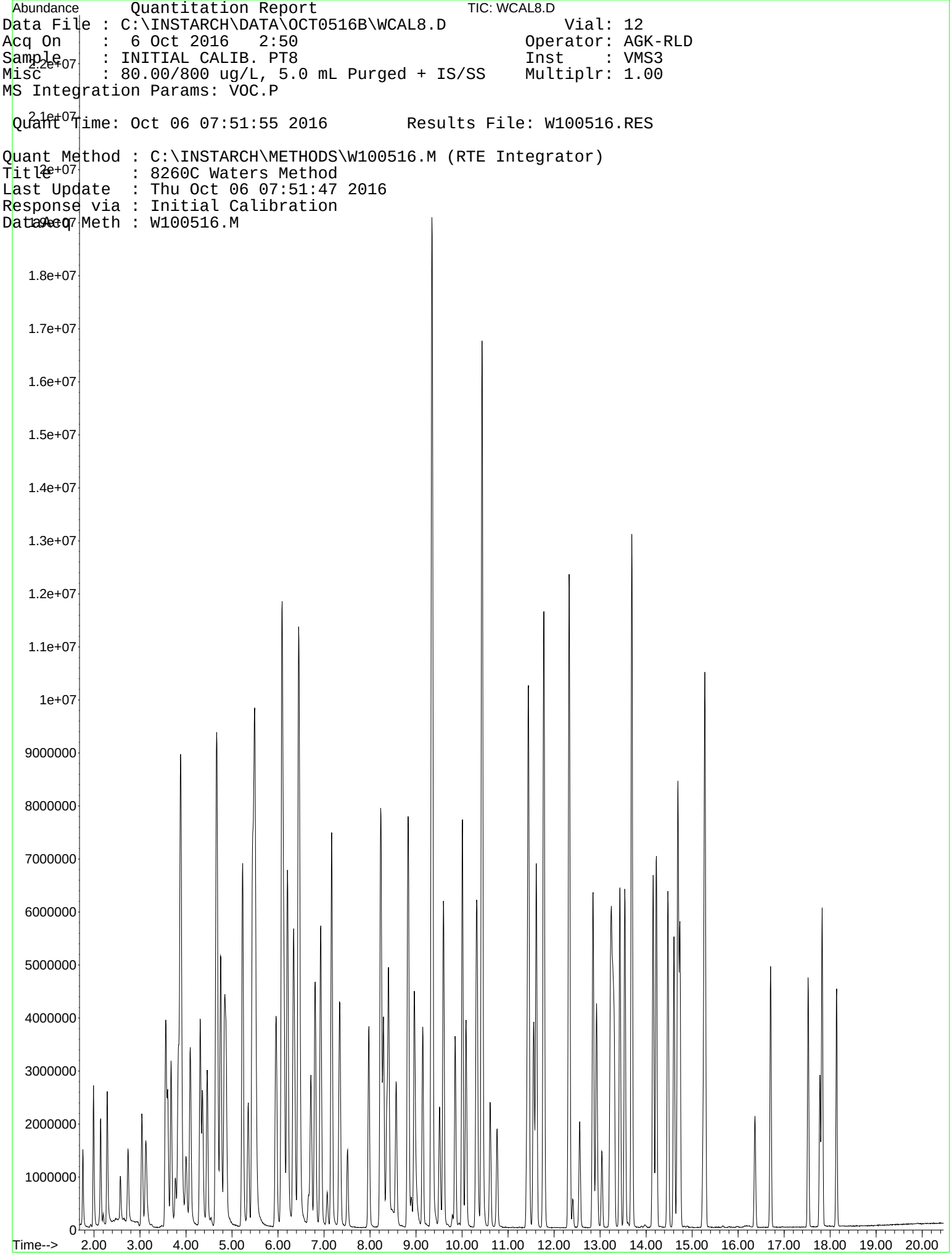
Quantitation Report

TIC: WCAL8.D

Data File : C:\INSTARCH\DATA\OCT0516B\WCAL8.D Vial: 12
Acq On : 6 Oct 2016 2:50 Operator: AGK-RLD
Sample : INITIAL CALIB. PT8 Inst : VMS3
Misc : 80.00/800 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 07:51:55 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 07:51:47 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV1.D Vial: 14
Acq On : 6 Oct 2016 3:51 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 06 08:28:15 2016

Quant Method : C:\INSTARCH\METHODS\W100516.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W100516.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	89	0.00
2	PT	Dichlorodi	0.2366	0.2329	1.56	86	0.00
3	PT	Chloromethan	0.5902	0.5799	1.75	91	0.00
4	PT	VinylChlorid	0.4034	0.4080	-1.14	89	0.00
5	PT	Bromomethane	0.1087	0.1016	6.53	93	0.00
6	PT	Chloroethane	0.2502	0.2616	-4.56	95	0.00
7	T	Dichloroflmethane	0.4938	0.5058	-2.43	93	0.00
8	PT	Trichlorofma	0.3722	0.3652	1.88	89	0.00
9	T	Ethylether	0.2685	0.2615	2.61	90	0.00
10	T	dichlorotfluoroethan	0.2948	0.3030	-2.78	93	0.00
11	T	propyleneoxide	0.0808	0.0821	-1.61	96	0.00
12	T	Acrolein	0.1273	0.1279	-0.47	95	0.00
13	PT	11dichlorthe	0.2575	0.2495	3.11	88	0.00
14	PT	Trichlorotfluoroeth	0.2360	0.2327	1.40	87	0.01
15	PT	Acetone	0.2123	0.2314	-9.00	95	0.00
16	T	Iodomethane	0.1911	0.1833	4.08	100	0.01
17	PT	Carbon Dislf	0.6565	0.6945	-5.79	91	0.00
18	T	allylchloride	0.3747	0.4134	-10.33	91	0.00
19	PT	methylacetate	0.1595	0.1636	-2.57	92	0.00
20	PT	Methylchlorid	0.2988	0.2902	2.88	93	0.00
21	T	tbutylalcohol	0.0867	0.0917	-5.77	100	0.00
22	T	Acrylonitrile	0.1935	0.2016	-4.19	97	0.00
23	PT	t12dichlorte	0.2741	0.2628	4.12	92	0.00
24	PT	MtBE	0.7970	0.8197	-2.85	97	0.00
25	T	Hexane	0.4255	0.4465	-4.94	92	0.00
26	PT	11dichlorota	0.5351	0.5194	2.93	92	0.00
27	T	Vinylacetate	0.5426	0.6119	-12.77	99	0.00
28	T	chloroprene	0.5009	0.5423	-8.27	97	0.00
29	T	Diisopether	0.9070	1.0290	-13.45	104	0.00
30	T	ETBE	0.9229	0.9708	-5.19	95	0.00
31	T	22dichloropr	0.3958	0.3798	4.04	87	0.00
32	PT	c12dichlorte	0.2918	0.2999	-2.78	94	0.00
33	PT	2Butanone	0.0752	0.0770#	-2.39	97	0.00
34	T	propionitrile	0.0877	0.0928	-5.82	102	0.00
35	T	Ethylacetate	0.0197	0.0203#	-3.05	99	0.00
36	T	methacrylonitrile	0.1978	0.2052	-3.74	97	0.00
37	T	Bromochlorma	0.1090	0.1007	7.61	84	0.01
38	T	Tetrahydofur	0.1770	0.1894	-7.01	98	0.00
39	PT	Chloroform	0.4681	0.4600	1.73	93	0.00
40	PT	111trichlota	0.4218	0.4168	1.19	94	0.00
41	S	SURRDibrflma	0.2481	0.2445	1.45	91	0.00
42	PT	Cyclohexane	0.5718	0.5800	-1.43	89	0.00
43	PT	Carbtetraclo	0.2882	0.2993	-3.85	90	0.00
44	T	11dicloprope	0.1317	0.1366	-3.72	88	0.00
45	S	SURR12DCAd4	0.0649	0.0670	-3.24	90	0.00
46	PT	Benzene	1.0702	1.1186	-4.52	89	0.00
47	PT	12dichlorota	0.4036	0.4140	-2.58	92	0.00
48	T	TAME	0.8287	0.8607	-3.86	90	0.00

49	PT	trichloroete	0.2883	0.2793	3.12	87	0.00
50	PT	methylcyclohexane	0.4711	0.4792	-1.72	92	0.00
51	PT	12dicloropra	0.3345	0.3412	-2.00	98	0.00
52	T	23Dicl1propene	0.4412	0.4432	-0.45	95	0.00
53	T	Dibromometha	0.1795	0.1775	1.11	97	0.00
54	T	methylmethacrylate	0.3079	0.3091	-0.39	96	0.00
55	T	14dioxane	0.0045	0.0042#	6.67	112	0.00
56	PT	Bromodiclrma	0.3617	0.3487	3.59	93	0.00
57	T	2Nitropropane	0.1690	0.1822	-7.81	97	0.00
58	T	2CLEVE	0.0318	0.0160#	49.69#	45#	0.00
59	PT	c13dicloproe	0.4575	0.4449	2.75	89	0.00
60	PT	4Meth2Pentan	0.4627	0.4930	-6.55	98	0.00
61	S	SURRd8Tolule	0.9915	1.0173	-2.60	96	0.00
62	PT	Toluene	0.6830	0.6768	0.91	91	0.00
63	PT	t13Dicloprop	0.4127	0.4013	2.76	94	0.00
64	T	ethylmethacrylate	0.4543	0.4947	-8.89	98	0.00
65	PT	112Triclotha	0.2297	0.2251	2.00	93	0.00
66	PT	Tetrachlorte	0.2547	0.2530	0.67	92	0.00
67	T	13Diclorpropa	0.4629	0.4649	-0.43	94	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	94	0.00
69	PT	2Hexanone	0.5142	0.5384	-4.71	100	0.00
70	PT	Clorodibrmta	0.3416	0.3143	7.99	90	0.00
71	PT	12Dibrometha	0.3736	0.3539	5.27	96	0.00
72	PT	Chlorobenzen	0.9145	0.9115	0.33	95	0.00
73	T	1Clhexane	0.5114	0.5184	-1.37	92	0.00
74	T	1112Tetclota	0.3196	0.3028	5.26	92	0.00
75	PT	Ethylbenzene	1.6033	1.6546	-3.20	94	0.00
76	PT	m p-Xylene	0.6008	0.6212	-3.40	93	0.00
77	PT	o-Xylene	0.6174	0.6060	1.85	95	0.00
78	PT	Styrene	1.0250	0.9972	2.71	93	0.00
79	PT	Bromoform	0.2531	0.2343	7.43	92	0.00
80	PT	Isopropylben	1.3886	1.3978	-0.66	92	0.00
81	T	cyclohexanone	0.0305	0.0288#	5.57	106	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	94	0.00
83	S	SURR4BrFBenz	1.0512	1.0495	0.16	93	0.00
84	T	Bromobenzene	0.7109	0.6797	4.39	88	0.00
85	PT	1122Tetrclta	1.1279	1.1384	-0.93	92	0.00
86	T	123Triclproa	1.4781	1.4548	1.58	94	0.00
87	T	14dichloro2butene	0.3873	0.3676	5.09	91	0.00
88	T	n-Propylbenz	3.5818	3.6178	-1.01	92	0.00
89	T	2chlorotolue	2.0922	2.1674	-3.59	96	0.00
90	T	4chlorotolue	2.3803	2.5076	-5.35	93	0.00
91	T	135Trimebenz	2.3665	2.4806	-4.82	94	0.00
92	T	tbutylbenzen	1.9725	2.0181	-2.31	94	0.00
93	T	124Trimetben	2.3691	2.4493	-3.39	92	0.00
94	T	sbutylbenzen	2.8221	2.9987	-6.26	92	0.00
95	PT	13Diclorbenz	1.2042	1.1901	1.17	92	0.00
96	T	pIsopropylto	2.2951	2.3712	-3.32	94	0.00
97	PT	14dichlorobe	1.2353	1.2335	0.15	93	0.00
98	PT	12dichlorobe	1.1661	1.1553	0.93	94	0.00
99	T	nButylbenzen	2.2293	2.3073	-3.50	91	0.00
100	PT	12dibromo3cl	0.3052	0.2872	5.90	92	0.00
101	T	135Trichlorobenzene	0.8293	0.8011	3.40	94	0.00
102	PT	124Trichlobe	0.7171	0.6835	4.69	91	0.00
103	T	Hexachlorobu	0.2689	0.2820	-4.87	91	0.00
104	T	Naphthalene	2.7562	2.6749	2.95	93	0.00
105	T	123Trichlben	0.6767	0.6573	2.87	95	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

W100516.M Wed Oct 19 11:48:03 2016

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV1.D Vial: 14
Acq On : 6 Oct 2016 3:51 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 06 08:28:15 2016

Quant Method : C:\INSTARCH\METHODS\W100516.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W100516.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	89	0.00
2	PT	Dichlorodi	10.0000	9.8472	1.53	86	0.00
3	PT	Chloromethan	10.0000	10.4716	-4.72	91	0.00
4	PT	VinylChlorid	10.0000	10.1147	-1.15	89	0.00
5	PT	Bromomethane	10.0000	9.3448	6.55	93	0.00
6	PT	Chloroethane	10.0000	10.4532	-4.53	95	0.00
7	T	Dichloroflmethane	10.0000	10.2436	-2.44	93	0.00
8	PT	Trichlorofma	10.0000	9.8114	1.89	89	0.00
9	T	Ethylether	10.0000	9.7403	2.60	90	0.00
10	T	dichlorotfluoroethan	10.0000	10.2776	-2.78	93	0.00
11	T	propyleneoxide	100.0000	101.5869	-1.59	96	0.00
12	T	Acrolein	50.0000	50.2200	-0.44	95	0.00
13	PT	11dichlorthe	10.0000	9.6900	3.10	88	0.00
14	PT	Trichlorotfluoroeth	20.0000	19.7243	1.38	87	0.01
15	PT	Acetone	100.0000	108.9892	-8.99	95	0.00
16	T	Iodomethane	20.0000	20.9769	-4.88	100	0.01
17	PT	Carbon Dislf	20.0000	21.1564	-5.78	91	0.00
18	T	allylchloride	20.0000	20.9505	-4.75	91	0.00
19	PT	methylacetate	10.0000	10.2562	-2.56	92	0.00
20	PT	Methylchlorid	10.0000	10.4550	-4.55	93	0.00
21	T	tbutylalcohol	500.0000	584.9294	-16.99	100	0.00
22	T	Acrylonitrile	50.0000	52.0914	-4.18	97	0.00
23	PT	t12dichlorte	10.0000	9.5867	4.13	92	0.00
24	PT	MtBE	10.0000	10.2837	-2.84	97	0.00
25	T	Hexane	20.0000	20.9871	-4.94	92	0.00
26	PT	11dichlorota	10.0000	9.7058	2.94	92	0.00
27	T	Vinylacetate	100.0000	118.8624	-18.86	99	0.00
28	T	chloroprene	20.0000	21.6525	-8.26	97	0.00
29	T	Diisopether	10.0000	11.3455	-13.45	104	0.00
30	T	ETBE	10.0000	10.5190	-5.19	95	0.00
31	T	22dichloropr	10.0000	9.5970	4.03	87	0.00
32	PT	c12dichlorte	10.0000	10.2768	-2.77	94	0.00
33	PT	2Butanone	100.0000	102.3154	-2.32	97	0.00
34	T	propionitrile	100.0000	105.8203	-5.82	102	0.00
35	T	Ethylacetate	50.0000	51.4895	-2.98	99	0.00
36	T	methacrylonitrile	20.0000	20.7475	-3.74	97	0.00
37	T	Bromochlorma	10.0000	9.2397	7.60	84	0.01
38	T	Tetrahydofur	100.0000	106.9606	-6.96	98	0.00
39	PT	Chloroform	10.0000	9.8268	1.73	93	0.00
40	PT	111trichlota	10.0000	9.8811	1.19	94	0.00
41	S	SURRDibrflma	20.0000	19.7111	1.44	91	0.00
42	PT	Cyclohexane	10.0000	10.1443	-1.44	89	0.00
43	PT	Carbtetraclo	10.0000	10.3844	-3.84	90	0.00
44	T	11dicloprope	10.0000	10.3699	-3.70	88	0.00
45	S	SURR12DCAd4	20.0000	20.6530	-3.26	90	0.00
46	PT	Benzene	10.0000	10.4516	-4.52	89	0.00
47	PT	12dichlorota	10.0000	10.2591	-2.59	92	0.00
48	T	TAME	10.0000	10.3852	-3.85	90	0.00

49	PT	trichloroete	10.0000	9.6879	3.12	87	0.00
50	PT	methylcyclohexane	10.0000	10.1719	-1.72	92	0.00
51	PT	12dicloropra	10.0000	10.2024	-2.02	98	0.00
52	T	23Dicl1propene	10.0000	10.0448	-0.45	95	0.00
53	T	Dibromometha	10.0000	9.8897	1.10	97	0.00
54	T	methylmethacrylate	10.0000	10.0408	-0.41	96	0.00
55	T	14dioxane	500.0000	555.3147	-11.06	112	0.00
56	PT	Bromodiclrma	10.0000	9.6412	3.59	93	0.00
57	T	2Nitropropane	100.0000	105.2154	-5.22	97	0.00
58	T	2CLEVE	50.0000	27.5473	44.91#	45	0.00
59	PT	c13dicloproe	10.0000	9.7229	2.77	89	0.00
60	PT	4Meth2Pentan	100.0000	111.8742	-11.87	98	0.00
61	S	SURRd8Tolule	20.0000	20.5204	-2.60	96	0.00
62	PT	Toluene	10.0000	9.9088	0.91	91	0.00
63	PT	t13Dicloprop	10.0000	9.7244	2.76	94	0.00
64	T	ethylmethacrylate	20.0000	21.7782	-8.89	98	0.00
65	PT	112Triclotha	10.0000	9.8009	1.99	93	0.00
66	PT	Tetrachlorte	10.0000	9.9356	0.64	92	0.00
67	T	13Diclorpropa	10.0000	10.0414	-0.41	94	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	94	0.00
69	PT	2Hexanone	100.0000	107.2991	-7.30	100	0.00
70	PT	Clorodibrmta	10.0000	9.2007	7.99	90	0.00
71	PT	12Dibrometha	10.0000	9.4721	5.28	96	0.00
72	PT	Chlorobenzen	10.0000	9.9669	0.33	95	0.00
73	T	1Clhexane	10.0000	10.1366	-1.37	92	0.00
74	T	1112Tetclota	10.0000	9.4736	5.26	92	0.00
75	PT	Ethylbenzene	10.0000	10.3197	-3.20	94	0.00
76	PT	m p-Xylene	20.0000	20.6804	-3.40	93	0.00
77	PT	o-Xylene	10.0000	9.8155	1.84	95	0.00
78	PT	Styrene	10.0000	9.7286	2.71	93	0.00
79	PT	Bromoform	10.0000	9.2570	7.43	92	0.00
80	PT	Isopropylben	10.0000	10.0661	-0.66	92	0.00
81	T	cyclohexanone	200.0000	206.8575	-3.43	106	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	94	0.00
83	S	SURR4BrFBenz	20.0000	19.9671	0.16	93	0.00
84	T	Bromobenzene	10.0000	9.5613	4.39	88	0.00
85	PT	1122Tetrclta	10.0000	10.0936	-0.94	92	0.00
86	T	123Triclproa	10.0000	9.8423	1.58	94	0.00
87	T	14dichloro2butene	10.0000	9.4907	5.09	91	0.00
88	T	n-Propylbenz	10.0000	10.1006	-1.01	92	0.00
89	T	2chlorotolue	10.0000	10.3597	-3.60	96	0.00
90	T	4chlorotolue	10.0000	10.5345	-5.34	93	0.00
91	T	135Trimebenz	10.0000	10.4823	-4.82	94	0.00
92	T	tbutylbenzen	10.0000	10.2309	-2.31	94	0.00
93	T	124Trimetben	10.0000	10.3382	-3.38	92	0.00
94	T	sbutylbenzen	10.0000	10.6258	-6.26	92	0.00
95	PT	13Diclorbenz	10.0000	9.8824	1.18	92	0.00
96	T	pIsopropylto	10.0000	10.3315	-3.32	94	0.00
97	PT	14dichlorobe	10.0000	9.9848	0.15	93	0.00
98	PT	12dichlorobe	10.0000	9.9079	0.92	94	0.00
99	T	nButylbenzen	10.0000	10.3495	-3.50	91	0.00
100	PT	12dibromo3cl	10.0000	9.4106	5.89	92	0.00
101	T	135Trichlorobenzene	10.0000	9.6598	3.40	94	0.00
102	PT	124Trichlobe	10.0000	9.5315	4.69	91	0.00
103	T	Hexachlorobu	10.0000	10.4866	-4.87	91	0.00
104	T	Naphthalene	10.0000	9.7052	2.95	93	0.00
105	T	123Trichlben	10.0000	9.7136	2.86	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W100516.M Wed Oct 19 11:48:16 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV1.D Vial: 14
Acq On : 6 Oct 2016 3:51 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:15 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:11 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1423283	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1113720	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	560322	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.67	113	348026	19.711 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 99 %		
45) SURR12DCAd4	7.08	102	95361	20.653 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 103 %		
61) SURRd8Tolule	9.51	98	1447958	20.520 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 103 %		
83) SURR4BrFBenz	13.04	95	588052	19.967 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 100 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.76	85	165776	9.8472 ug/L	96
3) Chloromethan	2.00	50	412677	10.4716 ug/L	98
4) VinylChlorid	2.15	62	290347	10.1147 ug/L	99
5) Bromomethane	2.59	94	72319	9.3448 ug/L	100
6) Chloroethane	2.75	64	186141	10.4532 ug/L	92
7) Dichloroflmethane	3.05	67	359971	10.2436 ug/L	98
8) Trichlorofma	3.13	101	259872	9.8114 ug/L	96
9) Ethylether	3.56	59	186095	9.7403 ug/L	98
10) dichlorotfluoroethan	3.56	67	215592	10.2776 ug/L	97
11) propyleneoxide	3.89	58	584301	101.5869 ug/L	98
12) Acrolein	3.68	56	455031	50.2200 ug/L	97
13) 11dichlorthe	3.83	96	177558	9.6900 ug/L	97
14) Trichlorotfluoroeth	3.88	101	331213	19.7243 ug/L	98
15) Acetone	3.89	43	1646999	108.9892 ug/L	99
16) Iodomethane	4.01	142	260826	20.9769 ug/L	98
17) Carbon Dislf	4.09	76	988406	21.1564 ug/L	100
18) allylchloride	4.31	41	588360	20.9505 ug/L	97
19) methylacetate	4.36	74	116411	10.2562 ug/L	100
20) Methylchlorid	4.47	84	206493	10.4550 ug/L	98
21) tbutylalcohol	4.66	59	3264315	584.9294 ug/L	100
22) Acrylonitrile	4.76	53	717240	52.0914 ug/L	99
23) t12dichlorte	4.84	96	187014	9.5867 ug/L	97
24) MtBE	4.87	73	583303	10.2837 ug/L	97
25) Hexane	5.23	57	635533	20.9871 ug/L	99
26) 11dichlorota	5.35	63	369604	9.7058 ug/L	100
27) Vinylacetate	5.45	43	4354574	118.8624 ug/L	99
28) chloroprene	5.49	53	771882	21.6525 ug/L	97
29) Diisopether	5.51	45	732287	11.3455 ug/L	89
30) ETBE	5.96	59	690869	10.5190 ug/L	99
31) 22dichloropr	6.09	77	270287	9.5970 ug/L	99
32) c12dichlorte	6.08	96	213417	10.2768 ug/L	97
33) 2Butanone	6.10	72	547686	102.3154 ug/L	98
34) propionitrile	6.13	54	660181	105.8203 ug/L	98
35) Ethylacetate	6.21	88	72206	51.4895 ug/L #	95
36) methacrylonitrile	6.34	67	292092	20.7475 ug/L	97
37) Bromochlorma	6.37	128	71695	9.2397 ug/L	92
38) Tetrahydofur	6.45	42	1347636	106.9606 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV1.D Vial: 14
Acq On : 6 Oct 2016 3:51 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:15 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:11 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39) Chloroform	6.47	83	327366	9.8268	ug/L	100
40) 111trichlota	6.72	97	296611	9.8811	ug/L	98
42) Cyclohexane	6.81	56	412768	10.1443	ug/L	98
43) Carbtetraclo	6.94	119	213003	10.3844	ug/L	98
44) 11dicloprope	6.92	110	97180	10.3699	ug/L	99
46) Benzene	7.17	78	796026	10.4516	ug/L	99
47) 12dichlorota	7.17	62	294627	10.2591	ug/L	99
48) TAME	7.34	73	612486	10.3852	ug/L	98
49) trichloroete	7.97	95	198738	9.6879	ug/L	98
50) methylcyclohexane	8.24	83	341051	10.1719	ug/L	96
51) 12dicloropra	8.22	63	242842	10.2024	ug/L	98
52) 23Dicl1propene	8.29	75	315385	10.0448	ug/L	99
53) Dibromometha	8.36	93	126303	9.8897	ug/L	94
54) methylmethacrylate	8.40	69	219992	10.0408	ug/L	99
55) 14dioxane	8.41	88	148971	555.3147	ug/L	99
56) Bromodiclrma	8.57	83	248140	9.6412	ug/L	99
57) 2Nitropropane	8.83	43	1296429	105.2154	ug/L	99
58) 2CLEVE	8.96	63	56784	27.5473	ug/L	97
59) c13dicloproe	9.15	75	316577	9.7229	ug/L	100
60) 4Meth2Pentan	9.34	43	3508266	111.8742	ug/L	100
62) Toluene	9.59	92	481626	9.9088	ug/L	94
63) t13Dicloprop	9.85	75	285588	9.7244	ug/L	98
64) ethylmethacrylate	10.01	69	704109	21.7782	ug/L	100
65) 112Triclotha	10.09	83	160197	9.8009	ug/L	99
66) Tetrachlorte	10.33	166	180053	9.9356	ug/L	98
67) 13Diclorpropa	10.31	76	330809	10.0414	ug/L	97
69) 2Hexanone	10.43	43	2997936	107.2991	ug/L	99
70) Clorodibrmta	10.61	129	175041	9.2007	ug/L	94
71) 12Dibrometha	10.76	107	197049	9.4721	ug/L	99
72) Chlorobenzen	11.45	112	507560	9.9669	ug/L	100
73) 1Clhexane	11.43	91	288670	10.1366	ug/L	98
74) 1112Tetclota	11.55	131	168616	9.4736	ug/L	99
75) Ethylbenzene	11.61	91	921370	10.3197	ug/L	99
76) m p-Xylene	11.78	106	691875	20.6804	ug/L	98
77) o-Xylene	12.32	106	337478	9.8155	ug/L	98
78) Styrene	12.33	104	555275	9.7286	ug/L	98
79) Bromoform	12.56	173	130484	9.2570	ug/L	96
80) Isopropylben	12.85	105	778373	10.0661	ug/L	99
81) cyclohexanone	12.92	55	321166	206.8575	ug/L	99
84) Bromobenzene	13.25	156	190421	9.5613	ug/L	92
85) 1122Tetrclta	13.22	83	318946	10.0936	ug/L	97
86) 123Triclproa	13.28	75	407581	9.8423	ug/L	99
87) 14dichloro2butene	13.30	53	102988	9.4907	ug/L	100
88) n-Propylbenz	13.43	91	1013578	10.1006	ug/L	99
89) 2chlorotolue	13.54	91	607228	10.3597	ug/L	99
90) 4chlorotolue	13.69	91	702524	10.5345	ug/L	100
91) 135Trimebenz	13.69	105	694976	10.4823	ug/L	99
92) tbutylbenzen	14.15	119	565393	10.2309	ug/L	98
93) 124Trimetben	14.22	105	686187	10.3382	ug/L	99
94) sbutylbenzen	14.47	105	840127	10.6258	ug/L	98
95) 13Diclorbenz	14.61	146	333408	9.8824	ug/L	98
96) pIsopropylto	14.69	119	664318	10.3315	ug/L	98
97) 14dichlorobe	14.73	146	345568	9.9848	ug/L	98
98) 12dichlorobe	15.26	146	323684	9.9079	ug/L	98
99) nButylbenzen	15.28	91	646403	10.3495	ug/L	99
100) 12dibromo3cl	16.36	157	80462	9.4106	ug/L	94
101) 135Trichlorobenzene	16.71	180	224439	9.6598	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV1.D Vial: 14
Acq On : 6 Oct 2016 3:51 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:15 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:11 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.53	180	191488	9.5315	ug/L	99
103) Hexachlorobu	17.78	225	79001	10.4866	ug/L	95
104) Naphthalene	17.82	128	749413	9.7052	ug/L	99
105) 123Trichlben	18.14	180	184143	9.7136	ug/L	97

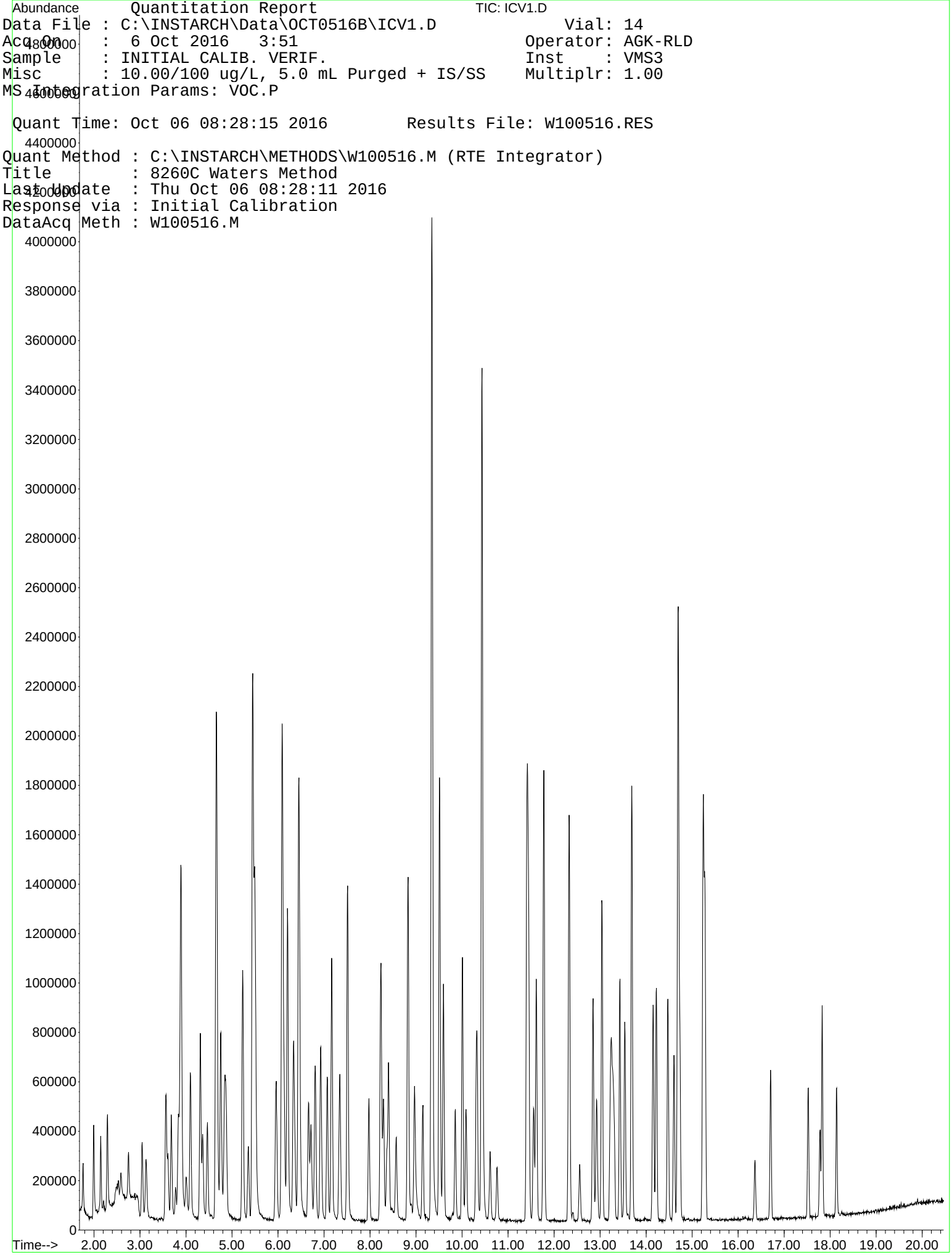
(#) = qualifier out of range (m) = manual integration
ICV1.D W100516.M Wed Oct 19 11:47:49 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV1.D Vial: 14
Acq On : 6 Oct 2016 3:51 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:15 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:11 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV2.D Vial: 15
Acq On : 6 Oct 2016 4:21 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 06 08:28:39 2016

Quant Method : C:\INSTARCH\METHODS\W100516.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W100516.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	98	0.00
2	PT	Dichlorodi	30.0000	28.2483	5.84	97	0.00
3	PT	Chloromethan	30.0000	28.9357	3.55	101	0.00
4	PT	VinylChlorid	30.0000	27.7133	7.62	98	0.00
5	PT	Bromomethane	30.0000	28.6411	4.53	103	-0.02
6	PT	Chloroethane	30.0000	29.2142	2.62	100	0.00
7	T	Dichloroflmethane	30.0000	27.8632	7.12	99	0.00
8	PT	Trichlorofma	30.0000	27.7367	7.54	99	0.00
9	T	Ethylether	30.0000	28.5105	4.96	99	0.00
10	T	dichlorotfluoroethan	30.0000	29.0186	3.27	103	0.00
11	T	propyleneoxide	300.0000	264.8650	11.71	102	0.00
12	T	Acrolein	150.0000	142.2409	5.17	105	0.00
13	PT	11dichlorthe	30.0000	27.7498	7.50	99	0.00
14	PT	Trichlorotfluoroeth	60.0000	57.7884	3.69	101	0.00
15	PT	Acetone	300.0000	266.9918	11.00	99	0.00
16	T	Iodomethane	60.0000	59.0276	1.62	103	0.00
17	PT	Carbon Dislf	60.0000	56.9693	5.05	102	0.00
18	T	allylchloride	60.0000	55.3245	7.79	101	0.00
19	PT	methylacetate	30.0000	29.3722	2.09	96	0.00
20	PT	Methylchlorid	30.0000	29.2214	2.60	94	0.00
21	T	tbutylalcohol	1500.0000	1742.2120	-16.15	109	0.00
22	T	Acrylonitrile	150.0000	143.8276	4.11	104	0.00
23	PT	t12dichlorte	30.0000	28.1185	6.27	97	0.00
24	PT	MtBE	30.0000	28.0952	6.35	97	0.00
25	T	Hexane	60.0000	59.3059	1.16	102	0.00
26	PT	11dichlorota	30.0000	27.6000	8.00	96	0.00
27	T	Vinylacetate	300.0000	303.2390	-1.08	102	0.00
28	T	chloroprene	60.0000	58.7217	2.13	100	0.00
29	T	Diisopether	30.0000	30.2023	-0.67	99	0.00
30	T	ETBE	30.0000	28.7024	4.33	96	0.00
31	T	22dichloropr	30.0000	27.4742	8.42	95	0.00
32	PT	c12dichlorte	30.0000	28.1874	6.04	95	0.00
33	PT	2Butanone	300.0000	286.8210	4.39	102	0.00
34	T	propionitrile	300.0000	301.9750	-0.66	106	0.00
35	T	Ethylacetate	150.0000	147.2565	1.83	106	0.00
36	T	methacrylonitrile	60.0000	59.5276	0.79	102	0.00
37	T	Bromochlorma	30.0000	27.3664	8.78	99	0.00
38	T	Tetrahydofur	300.0000	279.1484	6.95	104	0.00
39	PT	Chloroform	30.0000	27.8736	7.09	97	0.00
40	PT	111trichlota	30.0000	28.6735	4.42	98	0.00
41	S	SURRDibrflma	20.0000	20.3907	-1.95	98	0.00
42	PT	Cyclohexane	30.0000	28.6746	4.42	99	0.00
43	PT	Carbtetraclo	30.0000	30.3611	-1.20	96	0.00
44	T	11dicloprope	30.0000	29.2939	2.35	98	0.00
45	S	SURR12DCAd4	20.0000	19.9284	0.36	97	0.00
46	PT	Benzene	30.0000	27.9406	6.86	97	0.00
47	PT	12dichlorota	30.0000	28.3350	5.55	97	0.00
48	T	TAME	30.0000	28.0111	6.63	98	0.00

49	PT	trichloroete	30.0000	28.1625	6.12	95	0.00
50	PT	methylcyclohexane	30.0000	30.0764	-0.25	101	0.00
51	PT	12dicloropra	30.0000	28.2548	5.82	98	0.00
52	T	23Dicl1propene	30.0000	28.6237	4.59	99	0.00
53	T	Dibromometha	30.0000	28.5635	4.79	97	0.00
54	T	methylmethacrylate	30.0000	29.2167	2.61	98	0.00
55	T	14dioxane	1500.0000	2068.9065	-37.93#	129	0.00
56	PT	Bromodiclrma	30.0000	28.3991	5.34	96	0.00
57	T	2Nitropropane	300.0000	317.4032	-5.80	108	0.00
58	T	2CLEVE	150.0000	120.7499	19.50	75	0.00
59	PT	c13dicloproe	30.0000	29.1930	2.69	100	0.00
60	PT	4Meth2Pentan	300.0000	310.5184	-3.51	102	0.00
61	S	SURRd8Tolule	20.0000	22.0795	-10.40	107	0.00
62	PT	Toluene	30.0000	30.2722	-0.91	104	0.00
63	PT	t13Dicloprop	30.0000	29.9705	0.10	104	0.00
64	T	ethylmethacrylate	60.0000	62.1043	-3.51	105	0.00
65	PT	112Triclotha	30.0000	29.8094	0.64	103	0.00
66	PT	Tetrachlorte	30.0000	32.5765	-8.59	106	0.00
67	T	13Diclorpropa	30.0000	29.2108	2.63	99	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	99	0.00
69	PT	2Hexanone	300.0000	309.0111	-3.00	103	0.00
70	PT	Clorodibrmta	30.0000	27.7214	7.60	94	0.00
71	PT	12Dibrometha	30.0000	27.2979	9.01	95	0.00
72	PT	Chlorobenzen	30.0000	27.9621	6.79	96	0.00
73	T	1Clhexane	30.0000	29.4941	1.69	99	0.00
74	T	1112Tetclota	30.0000	28.2843	5.72	96	0.00
75	PT	Ethylbenzene	30.0000	27.9099	6.97	96	0.00
76	PT	m p-Xylene	60.0000	59.9347	0.11	103	0.00
77	PT	o-Xylene	30.0000	30.0859	-0.29	104	0.00
78	PT	Styrene	30.0000	29.3574	2.14	102	0.00
79	PT	Bromoform	30.0000	30.9838	-3.28	103	0.00
80	PT	Isopropylben	30.0000	29.9205	0.26	104	0.00
81	T	cyclohexanone	600.0000	730.7711	-21.80#	121	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	113	0.00
83	S	SURR4BrFBenz	20.0000	18.7976	6.01	104	0.00
84	T	Bromobenzene	30.0000	27.5769	8.08	110	0.00
85	PT	1122Tetrclta	30.0000	26.4119	11.96	106	0.00
86	T	123Triclproa	30.0000	25.8154	13.95	103	0.00
87	T	14dichloro2butene	30.0000	26.2713	12.43	106	0.00
88	T	n-Propylbenz	30.0000	24.4359	18.55	102	0.00
89	T	2chlorotolue	30.0000	26.1349	12.88	103	0.00
90	T	4chlorotolue	30.0000	26.2837	12.39	104	0.00
91	T	135Trimebenz	30.0000	26.7625	10.79	106	0.00
92	T	tbutylbenzen	30.0000	26.3783	12.07	105	0.00
93	T	124Trimetben	30.0000	26.2828	12.39	104	0.00
94	T	sbutylbenzen	30.0000	27.1730	9.42	105	0.00
95	PT	13Diclorbenz	30.0000	27.9961	6.68	108	0.00
96	T	pIsopropylto	30.0000	27.8014	7.33	110	0.00
97	PT	14dichlorobe	30.0000	28.2294	5.90	112	0.00
98	PT	12dichlorobe	30.0000	25.6231	14.59	102	0.00
99	T	nButylbenzen	30.0000	26.2839	12.39	103	0.00
100	PT	12dibromo3cl	30.0000	27.1575	9.48	114	0.01
101	T	135Trichlorobenzene	30.0000	27.9505	6.83	112	0.00
102	PT	124Trichlobe	30.0000	26.3276	12.24	101	0.00
103	T	Hexachlorobu	30.0000	28.9574	3.48	106	0.00
104	T	Naphthalene	30.0000	24.1396	19.53	102	0.00
105	T	123Trichlben	30.0000	26.8411	10.53	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W100516.M Wed Oct 19 11:48:42 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV2.D Vial: 15
Acq On : 6 Oct 2016 4:21 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:39 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1492045	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1154863	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	688939	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	377418	20.391 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 102 %		
45) SURR12DCAd4	7.07	102	96461	19.928 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 100 %		
61) SURRd8Tolule	9.51	98	1633239	22.079 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 110 %		
83) SURR4BrFBenz	13.04	95	680683	18.798 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 94 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.76	85	498528	28.2483 ug/L	99
3) Chloromethan	1.99	50	1124977	28.9357 ug/L	99
4) VinylChlorid	2.15	62	833957	27.7133 ug/L	100
5) Bromomethane	2.57	94	232360	28.6411 ug/L	95
6) Chloroethane	2.74	64	545352	29.2142 ug/L	97
7) Dichloroflmethane	3.04	67	1026445	27.8632 ug/L	99
8) Trichlorofma	3.13	101	770146	27.7367 ug/L	98
9) Ethylether	3.55	59	571029	28.5105 ug/L	98
10) dichlorotfluoroethan	3.56	67	638125	29.0186 ug/L	97
11) propyleneoxide	3.89	58	1597033	264.8650 ug/L #	89
12) Acrolein	3.67	56	1351076	142.2409 ug/L	100
13) 11dichlorthe	3.83	96	533047	27.7498 ug/L	98
14) Trichlorotfluoroeth	3.88	101	1017274	57.7884 ug/L	100
15) Acetone	3.89	43	4229590	266.9918 ug/L	95
16) Iodomethane	4.00	142	756547	59.0276 ug/L	98
17) Carbon Dislf	4.09	76	2790138	56.9693 ug/L	98
18) allylchloride	4.31	41	1510367	55.3245 ug/L	97
19) methylacetate	4.36	74	349491	29.3722 ug/L	98
20) Methylchlorid	4.46	84	581562	29.2214 ug/L	96
21) tbutylalcohol	4.66	59	8176170	1742.2120 ug/L	89
22) Acrylonitrile	4.75	53	2076017	143.8276 ug/L	97
23) t12dichlorte	4.83	96	575025	28.1185 ug/L	97
24) MtBE	4.87	73	1670581	28.0952 ug/L	98
25) Hexane	5.23	57	1882675	59.3059 ug/L	98
26) 11dichlorota	5.35	63	1101811	27.6000 ug/L	99
27) Vinylacetate	5.44	43	9195282	303.2390 ug/L	91
28) chloroprene	5.49	53	2194484	58.7217 ug/L	98
29) Diisopether	5.51	45	2043571	30.2023 ug/L	90
30) ETBE	5.96	59	1976197	28.7024 ug/L	98
31) 22dichloropr	6.08	77	811161	27.4742 ug/L	99
32) c12dichlorte	6.08	96	613642	28.1874 ug/L	97
33) 2Butanone	6.10	72	1609505	286.8210 ug/L	94
34) propionitrile	6.13	54	1974947	301.9750 ug/L	99
35) Ethylacetate	6.21	88	216481	147.2565 ug/L #	93
36) methacrylonitrile	6.33	67	878545	59.5276 ug/L	97
37) Bromochlorma	6.36	128	222608	27.3664 ug/L	94
38) Tetrahydofur	6.45	42	3687013	279.1484 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV2.D Vial: 15
Acq On : 6 Oct 2016 4:21 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:39 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.47	83	973432	27.8736 ug/L	100
40)	111trichlota	6.72	97	902302	28.6735 ug/L	97
42)	Cyclohexane	6.81	56	1223130	28.6746 ug/L	99
43)	Carbtetraclo	6.94	119	652848	30.3611 ug/L	98
44)	11dicloprope	6.92	110	287785	29.2939 ug/L	96
46)	Benzene	7.17	78	2230855	27.9406 ug/L	97
47)	12dichlorota	7.16	62	853055	28.3350 ug/L	98
48)	TAME	7.34	73	1731824	28.0111 ug/L	98
49)	trichloroete	7.98	95	605640	28.1625 ug/L	100
50)	methylcyclohexane	8.24	83	1057149	30.0764 ug/L	99
51)	12dicloropra	8.22	63	705024	28.2548 ug/L	91
52)	23Dicl1propene	8.29	75	942142	28.6237 ug/L	98
53)	Dibromometha	8.36	93	382415	28.5635 ug/L	92
54)	methylmethacrylate	8.40	69	671055	29.2167 ug/L	98
55)	14dioxane	8.41	88	587418	2068.9065 ug/L	96
56)	Bromodiclrma	8.57	83	766231	28.3991 ug/L	96
57)	2Nitropropane	8.83	43	3722088	317.4032 ug/L	98
58)	2CLEVE	8.96	63	285159	120.7499 ug/L	99
59)	c13dicloproe	9.14	75	996448	29.1930 ug/L	99
60)	4Meth2Pentan	9.34	43	7797953	310.5184 ug/L	84
62)	Toluene	9.59	92	1542487	30.2722 ug/L	96
63)	t13Dicloprop	9.86	75	922703	29.9705 ug/L	98
64)	ethylmethacrylate	10.01	69	2104894	62.1043 ug/L	97
65)	112Triclotha	10.09	83	510777	29.8094 ug/L	97
66)	Tetrachlorte	10.33	166	618875	32.5765 ug/L	98
67)	13Diclorpropa	10.31	76	1008827	29.2108 ug/L	99
69)	2Hexanone	10.43	43	6903736	309.0111 ug/L	88
70)	Clorodibrmta	10.61	129	546875	27.7214 ug/L	96
71)	12Dibrometha	10.76	107	588859	27.2979 ug/L	99
72)	Chlorobenzen	11.45	112	1476567	27.9621 ug/L	100
73)	1Clhexane	11.44	91	870964	29.4941 ug/L	98
74)	1112Tetclota	11.56	131	522019	28.2843 ug/L	99
75)	Ethylbenzene	11.61	91	2583935	27.9099 ug/L	97
76)	m p-Xylene	11.78	106	2079223	59.9347 ug/L	90
77)	o-Xylene	12.32	106	1072629	30.0859 ug/L	91
78)	Styrene	12.33	104	1737522	29.3574 ug/L	98
79)	Bromoform	12.56	173	452870	30.9838 ug/L	98
80)	Isopropylben	12.85	105	2399110	29.9205 ug/L	94
81)	cyclohexanone	12.92	55	1159191	730.7711 ug/L	95
84)	Bromobenzene	13.25	156	675282	27.5769 ug/L	95
85)	1122Tetrclta	13.22	83	1026156	26.4119 ug/L	97
86)	123Triclproa	13.28	75	1314434	25.8154 ug/L	100
87)	14dichloro2butene	13.31	53	350519	26.2713 ug/L	98
88)	n-Propylbenz	13.43	91	3014972	24.4359 ug/L	94
89)	2chlorotolue	13.54	91	1883513	26.1349 ug/L	97
90)	4chlorotolue	13.69	91	2155142	26.2837 ug/L	95
91)	135Trimebenz	13.69	105	2181633	26.7625 ug/L	95
92)	tbutylbenzen	14.16	119	1792362	26.3783 ug/L	98
93)	124Trimetben	14.22	105	2144927	26.2828 ug/L	93
94)	sbutylbenzen	14.47	105	2641589	27.1730 ug/L	96
95)	13Diclorbenz	14.61	146	1161326	27.9961 ug/L	99
96)	pIsopropylto	14.69	119	2197979	27.8014 ug/L	97
97)	14dichlorobe	14.73	146	1201261	28.2294 ug/L	97
98)	12dichlorobe	15.26	146	1029235	25.6231 ug/L	99
99)	nButylbenzen	15.28	91	2018440	26.2839 ug/L	96
100)	12dibromo3cl	16.37	157	285499	27.1575 ug/L	99
101)	135Trichlorobenzene	16.71	180	798479	27.9505 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV2.D Vial: 15
Acq On : 6 Oct 2016 4:21 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:39 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.52	180	650334	26.3276 ug/L	99
103) Hexachlorobu	17.78	225	268226	28.9574 ug/L	97
104) Naphthalene	17.82	128	2291856	24.1396 ug/L	99
105) 123Trichlben	18.14	180	625633	26.8411 ug/L	100

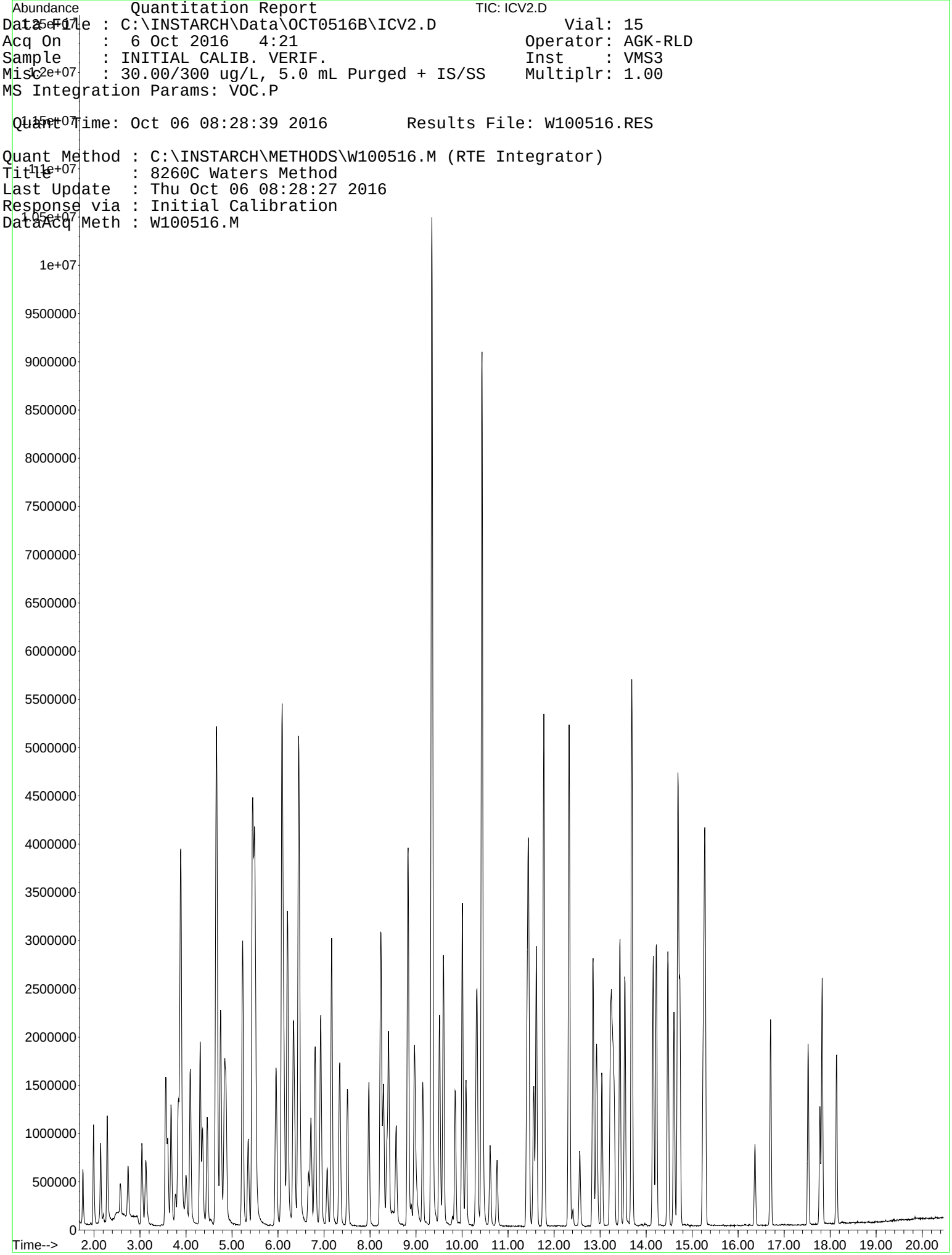
(#) = qualifier out of range (m) = manual integration
ICV2.D W100516.M Wed Oct 19 11:48:33 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICV2.D Vial: 15
Acq On : 6 Oct 2016 4:21 Operator: AGK-RLD
Sample : INITIAL CALIB. VERIF. Inst : VMS3
Misc : 30.00/300 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:39 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICB1.D Vial: 17
Acq On : 6 Oct 2016 5:22 Operator: AGK-RLD
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:51 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1350995	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	1051230	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	514802	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	334772	19.975 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 100 %		
45) SURR12DCAd4	7.08	102	89801	20.489 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 102 %		
61) SURRd8Tolule	9.51	98	1379078	20.590 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 103 %		
83) SURR4BrFBenz	13.04	95	554508	20.493 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 102 %		

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	1.99	50	26315	0.4673 ug/L	85
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.60	94	3553	N.D.	
6) Chloroethane	0.00	64	0	N.D.	
7) Dichloroflmethane	2.95	67	3107	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	3.89	58	14954	N.D.	
12) Acrolein	3.69	56	3696	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	3.89	43	49397	N.D.	
16) Iodomethane	4.01	142	15674	1.8932 ug/L	94
17) Carbon Dislf	4.09	76	9362	N.D.	
18) allylchloride	4.24	41	3091	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.45	84	3394	Below Cal #	65
21) tbutylalcohol	4.67	59	53492	Below Cal	92
22) Acrylonitrile	4.76	53	3106	N.D.	
23) t12dichlorte	0.00	96	0	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	5.47	43	6059	Below Cal #	71
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	6.09	77	4405	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	6.10	72	2740	N.D.	
34) propionitrile	6.16	54	3164	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.46	42	8877	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICB1.D Vial: 17
Acq On : 6 Oct 2016 5:22 Operator: AGK-RLD
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:51 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	7.17	78	3091	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23Dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	8.42	88	13649	31.4577 ug/L	87
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	8.83	43	5094	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.34	43	10749	Below Cal	92
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.43	43	25195	Below Cal	87
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.42	91	2781	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	11.78	106	3749	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	0.00	105	0	N.D.	
81)	cyclohexanone	12.92	55	27148	19.7118 ug/L #	89
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.43	91	2595	N.D.	
89)	2chlorotolue	13.43	91	2595	N.D.	
90)	4chlorotolue	0.00	91	0	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	0.00	119	0	N.D.	
93)	124Trimetben	14.22	105	2765	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	0.00	91	0	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICB1.D Vial: 17
Acq On : 6 Oct 2016 5:22 Operator: AGK-RLD
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:51 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	0.00	180	0	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	17.82	128	13328	N.D.	
105) 123Trichlben	0.00	180	0	N.D.	

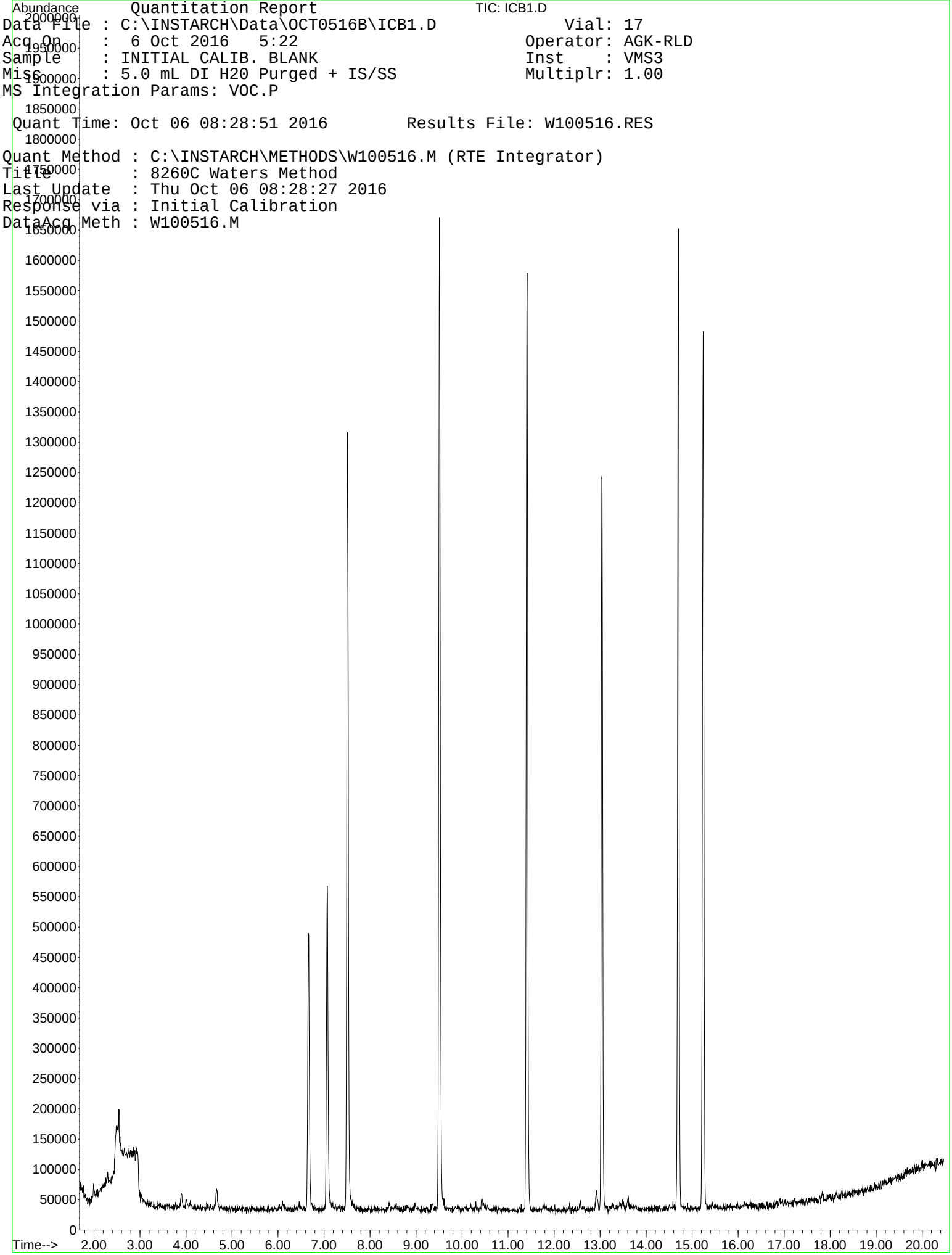
(#) = qualifier out of range (m) = manual integration
ICB1.D W100516.M Wed Oct 19 11:48:59 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0516B\ICB1.D Vial: 17
Acq On : 6 Oct 2016 5:22 Operator: AGK-RLD
Sample : INITIAL CALIB. BLANK Inst : VMS3
Misc : 5.0 mL DI H20 Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 08:28:51 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Response Factor Report VMS4

Method Path : C:\INSTARCH\METHODS\
Method File : PS092116.M
Title : 8260C Preserved Soils Method
Last Update : Fri Sep 23 14:34:54 2016
Response Via : Initial Calibration

RJ 09/26/2016

Calibration Files mg/kg
1 0.025/0.25 =CALS1.D 2 0.100/1.00 =CALS2.D 3 0.250/2.50 =CALS3.D
4 0.500/5.00 =CALS4.D 5 1.00/10.00 =CALS5.D 6 1.50/15.00 =CALS6.D
7 2.00/20.00 =CALS7.D 8 4.00/40.00 =CALS8.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
			8								
1)	I	FLUOROBENZENE**ISTD**	----------ISTD----------								
2)	T	Dichlorodi	0.284	0.286	0.271	0.252	0.265	0.241	0.246	0.261	7.13
			0.241								
3)	PT	Chloromethan	0.360	0.317	0.303	0.276	0.284	0.276	0.274	0.296	10.14
			0.278								
4)	CT	VinylChlorid	0.343	0.295	0.287	0.271	0.278	0.267	0.263	0.283	9.45
			0.261								
5)	T	Bromomethane	0.112	0.094	0.093	0.082	0.083	0.082	0.080	0.089	11.86
			0.085								
6)	T	Chloroethane	0.086	0.122	0.099	0.091	0.107	0.102	0.087	0.096	14.64
			0.077								
7)	T	dichloroflmetha	0.517	0.445	0.425	0.396	0.398	0.384	0.380	0.415	11.38
			0.377								
8)	T	Trichlorofma	0.396	0.386	0.361	0.330	0.344	0.325	0.326	0.349	8.23
			0.327								
9)	T	Ethylether	0.171	0.180	0.162	0.168	0.176	0.182	0.152	0.172	6.25
			0.183								
10)	T	dichlorotfluoro	0.292	0.264	0.249	0.236	0.235	0.228	0.227	0.244	9.48
			0.225								
11)	T	propyleneoxide	0.063	0.058	0.058	0.055	0.056	0.057	0.056	0.058	4.15
			0.057								
12)	T	Acrolein	0.056	0.049	0.045	0.041	0.042	0.046	0.046	0.047	10.12
			0.052								
13)	CT	11dichlorthe	0.217	0.206	0.213	0.196	0.198	0.194	0.195	0.202	4.38
			0.196								
14)	T	Trichlorotfluor	0.231	0.220	0.205	0.201	0.204	0.196	0.197	0.206	6.28
			0.194								
15)	T	Acetone	0.114	0.124	0.123	0.118	0.101	0.111	0.098	0.112	8.81
			0.104								
16)	T	Iodomethane	0.142	0.100	0.112	0.120	0.178	0.188	0.198	-----	
			0.208								
								Q	A= 0.003	R=0.999	
									B= 0.188		
									C= -0.029		
17)	T	Carbon Dislf	0.528	0.511	0.503	0.476	0.502	0.491	0.487	0.498	3.39
			0.483								
18)	T	allylchloride	0.339	0.342	0.308	0.298	0.307	0.302	0.301	0.312	5.85
			0.296								
19)	T	methylacetate	0.101	0.104	0.114	0.107	0.089	0.098	0.091	0.100	8.25
			0.096								
20)	T	Methylchlorid	0.527	0.283	0.241	0.219	0.219	0.213	0.208	-----	
			0.212								
								Q	A= 0.001	R=1.000	
									B= 0.204		
									C= 0.009		
21)	T	Acrylonitrile	0.133	0.136	0.126	0.122	0.118	0.119	0.113	0.123	6.58
			0.116								
22)	T	t12dichlorte	0.274	0.233	0.220	0.207	0.208	0.213	0.206	0.221	10.51
			0.208								
23)	T	tbutylalcohol	0.025	0.024	0.025	0.025	0.024	0.026	0.026	0.025	5.05
			0.028								
24)	T	MtBE	0.745	0.624	0.607	0.561	0.571	0.582	0.576	0.608	9.70

```
                         0.596
25) T   Hexane           0.337 0.313 0.304 0.290 0.298 0.287 0.289 0.301   5.74
                         0.288
26) PT  11dichlorota     0.461 0.404 0.384 0.377 0.378 0.371 0.366 0.389   8.17
                         0.367
27) T   Vinylacetate     0.308 0.343 0.357 0.373 0.431 0.404 0.374 0.359  13.63
                         0.280
28) T   chloroprene      0.371 0.381 0.371 0.355 0.366 0.349 0.347 0.358   4.93
                         0.326
29) T   Diisopether      0.770 0.767 0.741 0.716 0.734 0.719 0.712 0.731   3.85
                         0.688
30) T   ETBE             0.628 0.576 0.578 0.548 0.571 0.585 0.573 0.581   3.89
                         0.586
31) T   22dichloropr     0.300 0.246 0.237 0.234 0.251 0.255 0.262 0.258   8.40
                         0.274
32) T   c12dichlorte     0.280 0.248 0.241 0.226 0.232 0.233 0.229 0.240   7.40
                         0.228
33) T   2Butanone        0.048 0.043 0.041 0.040 0.037 0.039 0.037 0.040   8.75
                         0.038
34) T   propionitrile    0.051 0.052 0.049 0.046 0.044 0.045 0.044 0.047   6.71
                         0.045
35) T   Ethylacetate     0.012 0.012 0.012 0.011 0.011 0.012 0.012 0.012   2.24
                         0.012
36) T   methacrylonitri  0.138 0.118 0.128 0.118 0.118 0.120 0.117 0.122   6.00
                         0.120
37) T   Bromochlorma     0.134 0.124 0.112 0.104 0.107 0.106 0.100 0.111  10.74
                         0.102
38) T   Tetrahydofur     0.132 0.120 0.114 0.106 0.102 0.105 0.101 0.110  10.41
                         0.099
39) CT  Chloroform       0.458 0.428 0.398 0.363 0.379 0.376 0.373 0.394   8.42
                         0.373
40) T   111trichlota     0.338 0.317 0.311 0.291 0.313 0.321 0.322 0.318   4.44
                         0.331
41) S   SURRDibrflma     0.241 0.250 0.246 0.248 0.251 0.256 0.257 0.250   2.16
                         0.254
42) T   Cyclohexane      0.379 0.364 0.362 0.353 0.356 0.348 0.354 0.358   2.81
                         0.350
43) T   Carbtetraclo     0.170 0.180 0.187 0.184 0.215 0.224 0.235 0.206  14.71
                         0.255
44) T   11dicloprope     0.092 0.108 0.100 0.098 0.107 0.103 0.104 0.102   5.39
                         0.107
45) S   SURR12DCAd4      0.063 0.063 0.064 0.064 0.063 0.061 0.063 0.063   1.58
                         0.062
46) T   Benzene          0.955 0.962 0.893 0.856 0.871 0.852 0.840 0.881   5.89
                         0.822
47) T   12dichlorota     0.398 0.320 0.308 0.297 0.297 0.297 0.290 0.313  11.31
                         0.298
48) T   TAME             0.563 0.538 0.532 0.533 0.550 0.565 0.560 0.553   3.47
                         0.587
49) T   trichloroete     0.304 0.264 0.251 0.230 0.227 0.227 0.220 0.243  11.77
                         0.225
50) T   methylcyclohexa  0.398 0.357 0.375 0.351 0.371 0.365 0.370 0.370   3.83
                         0.375
51) CT  12dicloropra     0.239 0.226 0.224 0.216 0.225 0.224 0.222 0.225   2.92
                         0.225
52) T   23dicl1propene   0.343 0.317 0.327 0.306 0.324 0.340 0.325 0.328   3.96
                         0.341
53) T   Dibromometha     0.149 0.136 0.137 0.136 0.140 0.142 0.136 0.140   3.26
                         0.142
54) T   methylmethacryl  0.191 0.168 0.168 0.164 0.179 0.186 0.185 0.180   6.87
                         0.198
55) T   14dioxane        0.001 0.001 0.002 0.001 0.001 0.001 0.001 ----- #
                         0.002
                                                   Q  A=  0.000 R=0.999
                                                      B=  0.001
                                                      C=  0.003
56) T   Bromodiclrma     0.253 0.249 0.233 0.245 0.252 0.265 0.265 0.256   5.88
                         0.283
57) T   2Nitropropane    0.042 0.041 0.040 0.043 0.050 0.059 0.062 -----
                         0.074
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                                                    Q  A=  0.001 R=1.000
                                                       B=  0.050
                                                       C= -0.023
58)     2CLEVE          0.081 0.079 0.087 0.087 0.091 0.092 0.096 0.090   9.07
                        0.104
59) T   c13dicloproe    0.283 0.292 0.290 0.287 0.306 0.319 0.316 0.304   6.49
                        0.340
60) T   4Meth2Pentan    0.360 0.355 0.349 0.325 0.309 0.298 0.274 0.324   9.98

61) S   SURRd8Tolule    0.962 0.967 0.959 0.963 0.957 0.956 0.952 0.958   0.58
                        0.952
62) CT  Toluene         0.615 0.582 0.545 0.513 0.523 0.524 0.520 0.542   6.87
                        0.513
63) T   t13Dicloprop    0.210 0.206 0.210 0.222 0.254 0.267 0.269 0.241  13.90
                        0.293
64) T   ethylmethacryla 0.243 0.260 0.272 0.279 0.302 0.314 0.306 0.286   9.28
                        0.314
65) T   112Triclotha    0.200 0.179 0.179 0.161 0.161 0.166 0.161 0.172   7.90
                        0.168
66) T   Tetrachlorte    0.292 0.274 0.289 0.279 0.279 0.280 0.274 0.280   2.37
                        0.277
67) T   13Diclorpropa   0.364 0.353 0.342 0.323 0.328 0.323 0.316 0.335   5.08
                        0.328

68) I   d5-CHLOROBENZENE**IST ----------------ISTD---------------------
69) T   2Hexanone       0.328 0.346 0.351 0.330 0.313 0.309 0.285 0.323   7.04

70) T   Clorodibrmta    0.225 0.205 0.210 0.223 0.249 0.268 0.268 0.243  13.39
                        0.297
71) T   12Dibrometha    0.266 0.257 0.264 0.266 0.283 0.290 0.281 0.275   4.99
                        0.295
72) PT  Chlorobenzen    0.844 0.815 0.807 0.759 0.769 0.746 0.733 0.777   5.27
                        0.739
73) T   1Clhexane       0.480 0.440 0.401 0.390 0.402 0.395 0.402 0.415   7.33
                        0.412
74) T   1112Tetclota    0.236 0.215 0.203 0.203 0.241 0.256 0.255 0.236  11.66
                        0.279
75) CT  Ethylbenzene    1.360 1.390 1.380 1.304 1.340 1.319 1.285 1.329   3.63
                        1.250
76) T   m p-Xylene      0.505 0.520 0.533 0.498 0.510 0.506 0.491 0.506   3.04
                        0.486
77) T   o-Xylene        0.477 0.501 0.492 0.476 0.491 0.488 0.481 0.487   1.74
                        0.486
78) T   Styrene         0.766 0.776 0.780 0.786 0.808 0.806 0.780 0.787   1.93
                        0.797
79) PT  Bromoform       0.153 0.145 0.145 0.154 0.179 0.204 0.203 -----
                        0.243
                                                    Q  A=  0.018 R=1.000
                                                       B=  0.172
                                                       C= -0.005
80) T   Isopropylben    1.214 1.235 1.209 1.175 1.223 1.216 1.191 1.203   2.04
                        1.163

81) I   d4-1,4-DICHLOROBENZEN ----------------ISTD---------------------
82) T   cyclohexanone   0.018 0.012 0.018 0.017 0.015 0.015 0.016 0.016  12.20
                        0.018
83) S   SURR4BrFBenz    0.833 0.838 0.834 0.819 0.813 0.822 0.842 0.828   1.20
                        0.825
84) T   Bromobenzene    0.732 0.726 0.673 0.676 0.676 0.687 0.657 0.688   3.90
                        0.675
85) PT  1122Tetrclta    0.688 0.648 0.686 0.656 0.664 0.691 0.674 0.676   2.69
                        0.699
86) T   123Triclproa    0.932 0.745 0.802 0.679 0.770 0.799 0.794 0.796   9.24
                        0.846
87) T   14dichloro2bute 0.149 0.130 0.136 0.134 0.145 0.162 0.170 0.152  13.34
                        0.189
88) T   n-Propylbenz    2.774 2.853 2.818 2.696 2.727 2.707 2.639 2.714   4.09
                        2.498
89) T   2chlorotolue    1.993 1.611 1.633 1.567 1.567 1.589 1.539 1.630   9.23
                        1.537
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 90) T   4chlorotolue    1.952 1.843 1.887 1.804 1.824 1.828 1.763 1.833   3.45
                         1.762
 91) T   135Trimebenz    2.028 1.884 1.956 1.891 1.921 1.914 1.883 1.918   2.77
                         1.862
 92) T   tbutylbenzen    1.743 1.623 1.644 1.615 1.653 1.649 1.627 1.646   2.59
                         1.610
 93) T   124Trimetben    1.925 1.828 1.917 1.890 1.869 1.901 1.863 1.879   1.87
                         1.841
 94) T   sbutylbenzen    2.563 2.484 2.530 2.454 2.515 2.496 2.456 2.481   2.56
                         2.353
 95) T   13Diclorbenz    1.287 1.228 1.155 1.142 1.140 1.161 1.125 1.173   4.75
                         1.144
 96) T   pIsopropylto    1.981 2.061 2.089 2.026 2.064 2.071 2.050 2.042   1.85
                         1.996
 97) T   14dichlorobe    1.342 1.118 1.216 1.146 1.137 1.159 1.129 1.175   6.27
                         1.153
 98) T   12dichlorobe    1.265 1.168 1.147 1.097 1.093 1.071 1.054 1.121   6.28
                         1.068
 99) T   nButylbenzen    1.932 1.859 1.795 1.835 1.892 1.877 1.851 1.858   2.29
                         1.823
100) T   12dibromo3cl    0.142 0.099 0.117 0.123 0.138 0.156 0.162 -----
                         0.188
                                                          Q  A=  0.013 R=1.000
                                                             B=  0.136
                                                             C= -0.005
101) T   135Trichloroben 1.009 0.960 0.949 0.918 0.953 0.955 0.946 0.958   2.69
                         0.970
102) T   124Trichlobe    0.809 0.772 0.769 0.781 0.793 0.816 0.804 0.797   2.84
                         0.834
103) T   Hexachlorobu    0.468 0.465 0.460 0.468 0.470 0.467 0.479 0.473   2.89
                         0.504
104) T   Naphthalene     1.715 1.688 1.768 1.784 1.802 1.868 1.854 1.789   3.58
                         1.830
105) T   123Trichlben    0.881 0.716 0.732 0.734 0.736 0.766 0.736 0.759   6.93
                         0.775
 ---------------------------------------------------------------------------
                                                Total Average %RSD   6.40
 ---------------------------------------------------------------------------
 L = Linear LO = Linear+Origin Q = Quad QO = Quad+Origin R = Corr. Coef
 (#) = Out of Range

           PS092116.M        Mon Sep 26 14:39:41 2016
```

Data File : C:\Instarch\Data\SEP2116\BFB1.D Vial: 1
Acq On : 21 Sep 2016 19:01 Operator: RLD-AGK
Sample : BFB INJECTION Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS092116.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.780 to 4.792 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.3	5010	PASS
75	95	30	60	48.4	11359	PASS
95	95	100	100	100.0	23472	PASS
96	95	5	9	6.2	1451	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.6	23136	PASS
175	174	5	9	7.7	1773	PASS
176	174	95	101	96.4	22301	PASS
177	176	5	9	6.3	1402	PASS

PS092116.M Mon Sep 26 14:34:26 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS1.D Vial: 4
Acq On : 21 Sep 2016 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:54:57 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:45 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1123070	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	858961	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	453293	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	270675	0.963 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery	= 96 %	
45) SURR12DCAd4	7.35	102	71227	1.010 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery	= 101 %	
61) SURRd8Tolule	9.79	98	1080267	1.004 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery	= 100 %	
83) SURR4BrFBenz	13.36	95	377728	1.006 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery	= 101 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.90	85	7970	0.0272 mg/kg	86
3) Chloromethan	2.13	50	10108m	0.0292 mg/kg	94
4) VinylChlorid	2.29	62	9626	0.0303 mg/kg	78
5) Bromomethane	2.74	94	3132m	0.0250 mg/kg#	64
6) Chloroethane	2.90	64	2416m	0.0208 mg/kg#	84
7) dichloroflmethane	3.22	67	14513	0.0311 mg/kg	88
8) Trichlorofma	3.26	101	11126	0.0284 mg/kg	93
9) Ethylether	3.75	59	4793	0.0249 mg/kg#	14
10) dichlorotfluoroethan	3.77	67	8198	0.0299 mg/kg	93
11) propyleneoxide	3.82	58	17590	0.2723 mg/kg	93
12) Acrolein	3.92	56	7800m	0.1422 mg/kg	96
13) 11dichlorthe	4.03	96	6089	0.0268 mg/kg	94
14) Trichlorotfluoroeth	4.06	101	12954	0.0560 mg/kg	97
15) Acetone	4.15	43	32108m	0.2377 mg/kg	97
16) Iodomethane	4.23	142	7980	0.0457 mg/kg#	87
17) Carbon Dislf	4.30	76	29666	0.0531 mg/kg	97
18) allylchloride	4.54	41	19055	0.0544 mg/kg	96
19) methylacetate	4.62	74	2832m	0.0237 mg/kg	92
20) Methylchlorid	4.71	84	14795m	0.0465 mg/kg#	93
21) Acrylonitrile	5.04	53	18635	0.1352 mg/kg	99
22) t12dichlorte	5.07	96	7691	0.0310 mg/kg	84
23) tbutylalcohol	4.94	59	35611	1.2447 mg/kg	90
24) MtBE	5.09	73	20915	0.0306 mg/kg	96
25) Hexane	5.44	57	18924	0.0560 mg/kg	98
26) 11dichlorota	5.61	63	12954	0.0297 mg/kg	93
27) Vinylacetate	5.70	43	86543	0.2150 mg/kg	94
28) chloroprene	5.72	53	20841	0.0518 mg/kg	94
29) Diisopether	5.73	45	21623	0.0263 mg/kg#	60
30) ETBE	6.19	59	17643	0.0271 mg/kg	95
31) 22dichloropr	6.33	77	8436	0.0292 mg/kg	94
32) c12dichlorte	6.35	96	7864	0.0292 mg/kg	97
33) 2Butanone	6.39	72	13358	0.2948 mg/kg	99
34) propionitrile	6.45	54	14215	0.2709 mg/kg	91
35) Ethylacetate	6.46	88	1656	0.1270 mg/kg#	89
36) methacrylonitrile	6.63	67	7756	0.0565 mg/kg	91
37) Bromochlorma	6.63	128	3771m	0.0293 mg/kg	71
38) Tetrahydofur	6.72	42	37080	0.3008 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS1.D Vial: 4
Acq On : 21 Sep 2016 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:54:57 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:45 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	12871	0.0291 mg/kg	99
40)	111trichlota	6.98	97	9495	0.0266 mg/kg	92
42)	Cyclohexane	7.04	56	10638	0.0264 mg/kg	96
43)	Carbtetraclo	7.18	119	4763m	0.0209 mg/kg	97
44)	11dicloprope	7.18	110	2570	0.0224 mg/kg#	66
46)	Benzene	7.44	78	26811	0.0271 mg/kg#	73
47)	12dichlorota	7.46	62	11176	0.0318 mg/kg#	93
48)	TAME	7.58	73	15812	0.0254 mg/kg	96
49)	trichloroete	8.24	95	8537	0.0312 mg/kg	94
50)	methylcyclohexane	8.49	83	11181	0.0269 mg/kg	98
51)	12dicloropra	8.52	63	6715	0.0266 mg/kg#	81
52)	23dicl1propene	8.58	75	9639	0.0262 mg/kg	93
53)	Dibromometha	8.67	93	4175	0.0266 mg/kg	91
54)	methylmethacrylate	8.67	69	5366	0.0266 mg/kg	95
55)	14dioxane	8.75	88	1244	0.7839 mg/kg#	1
56)	Bromodiclrma	8.86	83	7116	0.0248 mg/kg#	81
57)	2Nitropropane	9.15	43	11842m	0.2074 mg/kg#	77
58)	2CLEVE	9.26	63	11366	0.1129 mg/kg	94
59)	c13dicloproe	9.44	75	7959	0.0233 mg/kg	100
60)	4Meth2Pentan	9.63	43	101027	0.2895 mg/kg	97
62)	Toluene	9.87	92	17254	0.0283 mg/kg	94
63)	t13Dicloprop	10.16	75	5885	0.0217 mg/kg	80
64)	ethylmethacrylate	10.28	69	13662	0.0425 mg/kg	95
65)	112Triclotha	10.40	83	5613	0.0291 mg/kg	89
66)	Tetrachlorte	10.60	166	8189	0.0260 mg/kg	95
67)	13Diclorpropa	10.63	76	10233	0.0272 mg/kg	92
69)	2Hexanone	10.74	43	70380	0.2621 mg/kg	97
70)	Clorodibrmta	10.94	129	4836	0.0232 mg/kg#	80
71)	12Dibrometha	11.07	107	5717	0.0242 mg/kg	97
72)	Chlorobenzen	11.75	112	18134	0.0272 mg/kg#	63
73)	1Clhexane	11.72	91	10317	0.0289 mg/kg#	45
74)	1112Tetclota	11.87	131	5072	0.0250 mg/kg#	79
75)	Ethylbenzene	11.91	91	29212	0.0256 mg/kg	95
76)	m p-Xylene	12.07	106	21680	0.0499 mg/kg	89
77)	o-Xylene	12.63	106	10239	0.0245 mg/kg	94
78)	Styrene	12.65	104	16440	0.0243 mg/kg	95
79)	Bromoform	12.89	173	3283	0.0214 mg/kg	93
80)	Isopropylben	13.14	105	26060	0.0252 mg/kg	96
82)	cyclohexanone	13.27	55	4044	0.5463 mg/kg#	81
84)	Bromobenzene	13.57	156	8295	0.0266 mg/kg	92
85)	1122Tetrclta	13.56	83	7798	0.0255 mg/kg	93
86)	123Triclproa	13.62	75	10561	0.0293 mg/kg	93
87)	14dichloro2butene	13.64	53	1692	0.0246 mg/kg#	33
88)	n-Propylbenz	13.73	91	31437	0.0256 mg/kg	97
89)	2chlorotolue	13.85	91	22583	0.0306 mg/kg	94
90)	4chlorotolue	14.01	91	22121	0.0266 mg/kg	97
91)	135Trimebenz	13.99	105	22985	0.0264 mg/kg	97
92)	tbutylbenzen	14.45	119	19755	0.0265 mg/kg	96
93)	124Trimetben	14.53	105	21818	0.0256 mg/kg	98
94)	sbutylbenzen	14.77	105	29043	0.0258 mg/kg	97
95)	13Diclorbenz	14.93	146	14590	0.0274 mg/kg	93
96)	pIsopropylto	14.99	119	22455	0.0243 mg/kg#	95
97)	14dichlorobe	15.07	146	15208	0.0286 mg/kg	91
98)	12dichlorobe	15.61	146	14334	0.0282 mg/kg#	68
99)	nButylbenzen	15.59	91	21889	0.0260 mg/kg	98
100)	12dibromo3cl	16.70	157	1604m	0.0252 mg/kg#	0
101)	135Trichlorobenzene	17.01	180	11438	0.0264 mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS1.D Vial: 4
Acq On : 21 Sep 2016 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:54:57 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:45 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	9165	0.0254 mg/kg	91
103) Hexachlorobu	18.07	225	5299	0.0247 mg/kg	92
104) Naphthalene	18.14	128	19430	0.0240 mg/kg	98
105) 123Trichlben	18.44	180	9979	0.0290 mg/kg	94

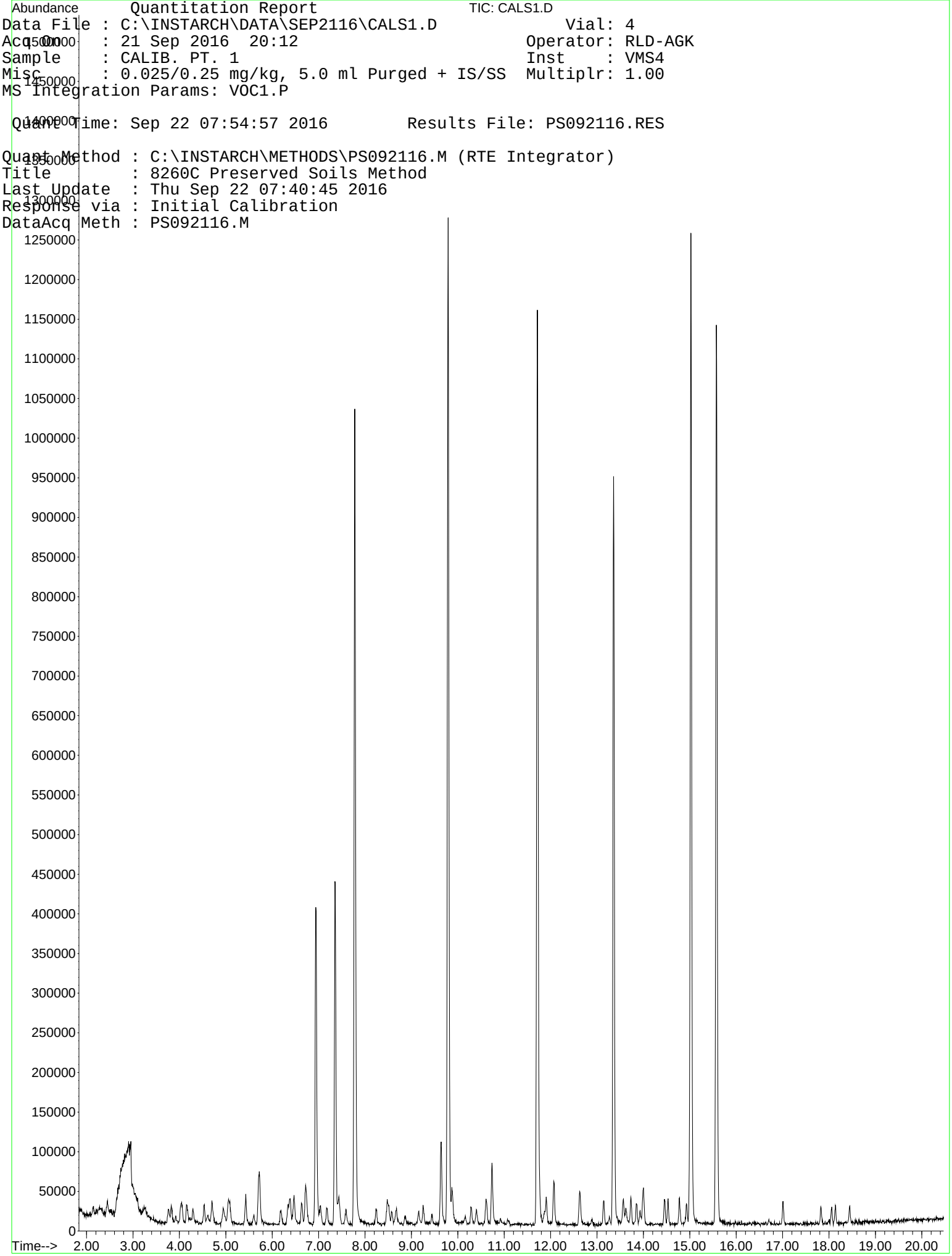
(#) = qualifier out of range (m) = manual integration
CALS1.D PS092116.M Mon Sep 26 14:50:34 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS1.D Vial: 4
Acq On : 21 Sep 2016 20:12 Operator: RLD-AGK
Sample : CALIB. PT. 1 Inst : VMS4
Misc : 0.025/0.25 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:54:57 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:45 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



After Manual Integration

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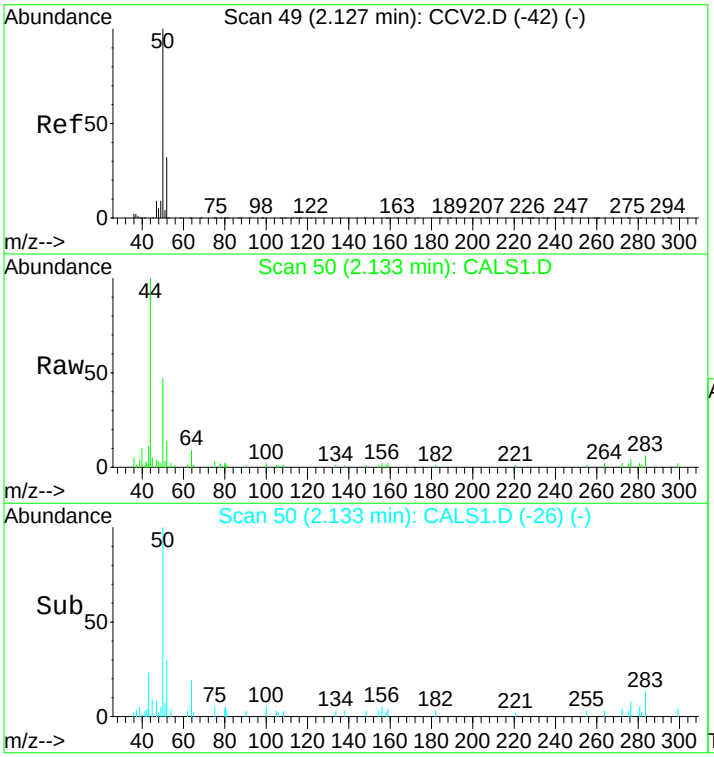
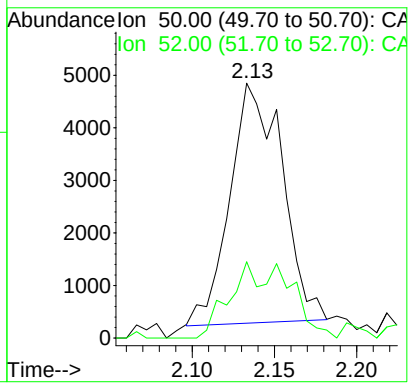
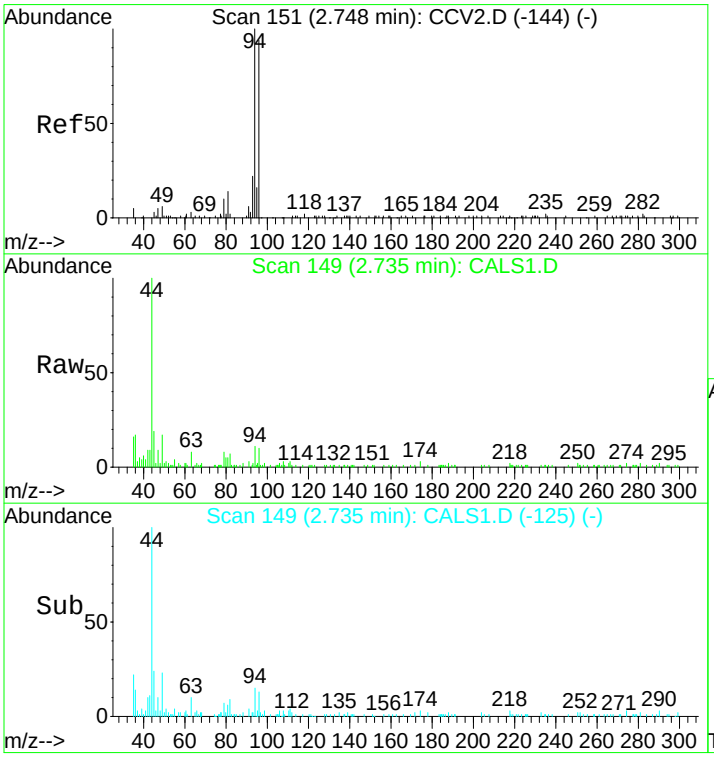


#3
Chloromethan
Concen: 0.03 mg/kg m
RT: 2.13 min Scan# 50
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 50 Resp: 10108

Ion	Ratio	Lower	Upper
50	100		
52	35.9	13.3	53.3

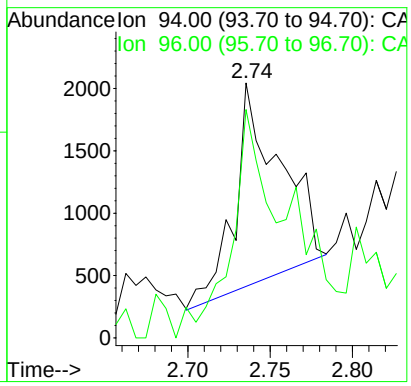




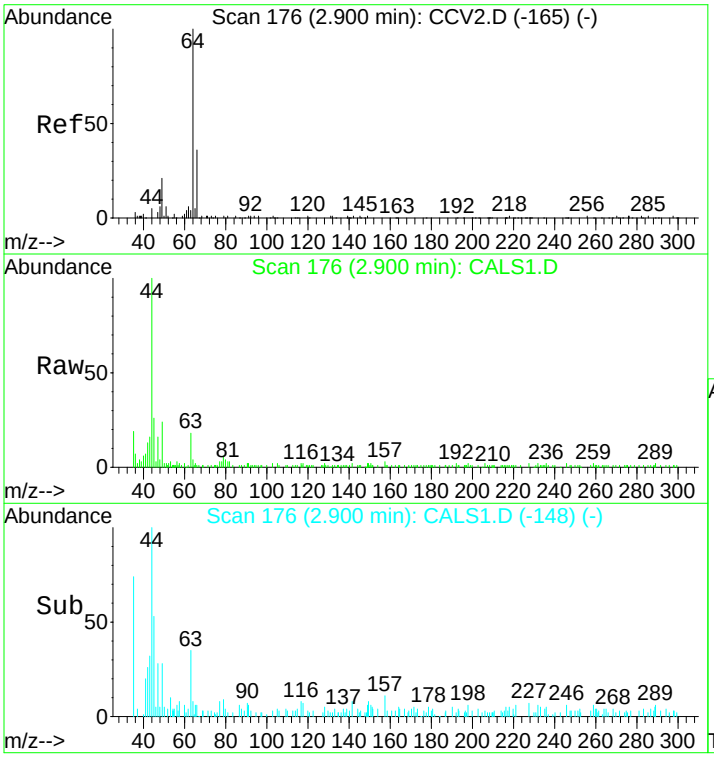
#5
Bromomethane
Concen: 0.02 mg/kg m
RT: 2.74 min Scan# 149
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 94 Resp: 3132

Ion	Ratio	Lower	Upper
94	100		
96	146.5	79.8	119.8#



AGK 09/29/16



#6
Chloroethane
Concen: 0.02 mg/kg m
RT: 2.90 min Scan# 176
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

After Manual Integration

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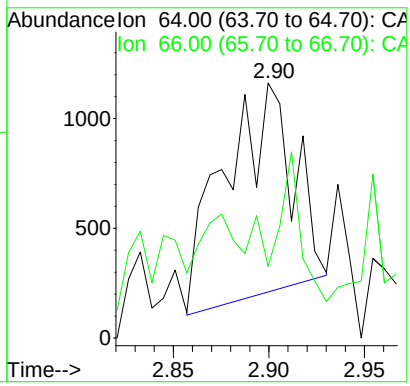
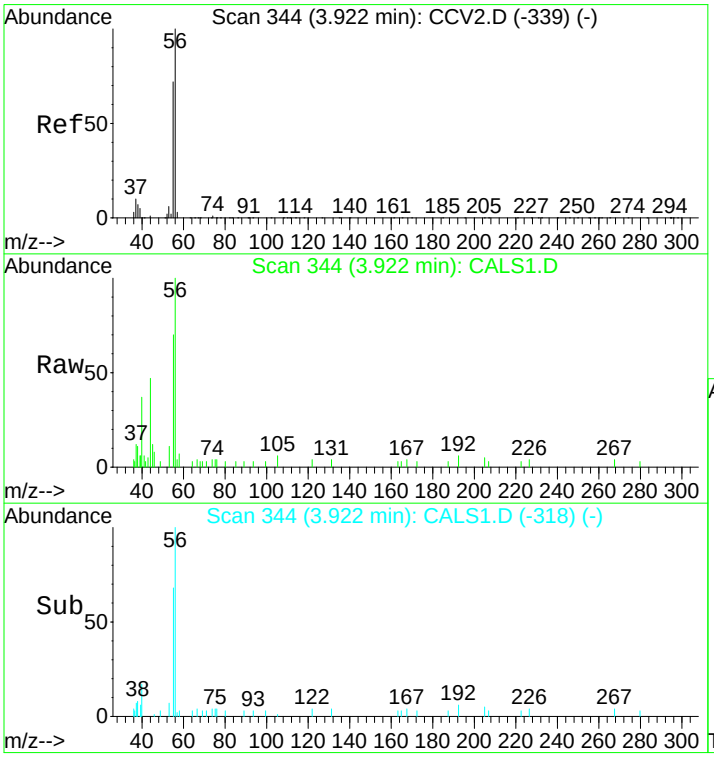
Tgt Ion: 64 Resp: 2416

Ion	Ratio	Lower	Upper
64	100		
66	59.4	9.1	49.1#

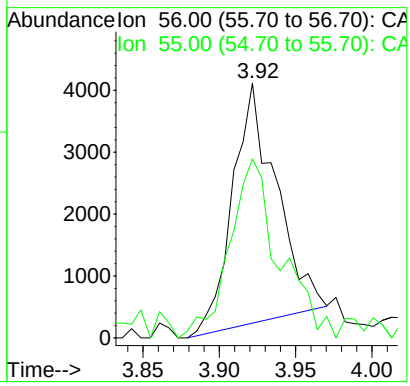




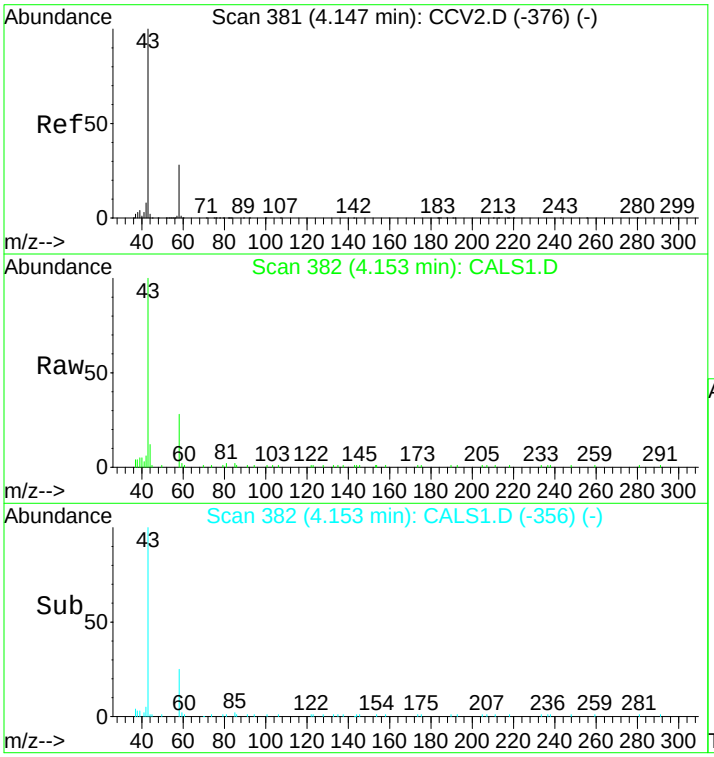
#12
Acrolein
Concen: 0.14 mg/kg m
RT: 3.92 min Scan# 344
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 56 Resp: 7800

Ion	Ratio	Lower	Upper
56	100		
55	84.0	50.8	90.8



AGK 09/29/16



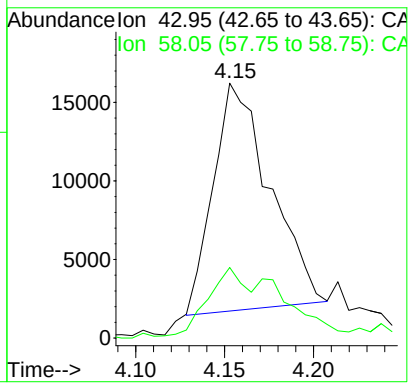
#15
Acetone
Concen: 0.24 mg/kg m
RT: 4.15 min Scan# 382
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

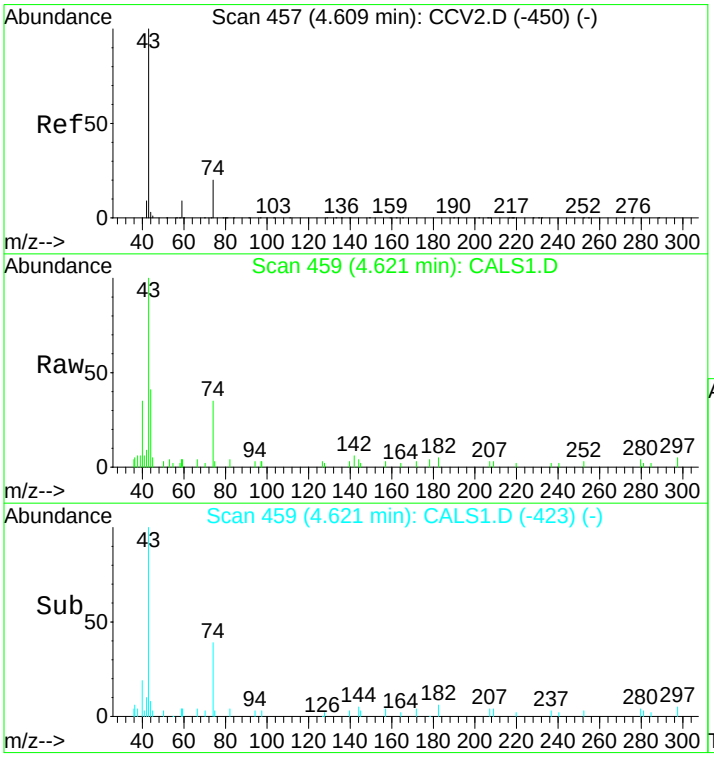
After Manual Integration

RJ 09/26/2016

Tgt Ion: 43 Resp: 32108

Ion	Ratio	Lower	Upper
43	100		
58	40.5	6.5	46.5

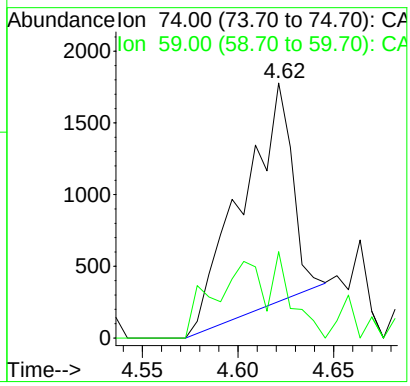




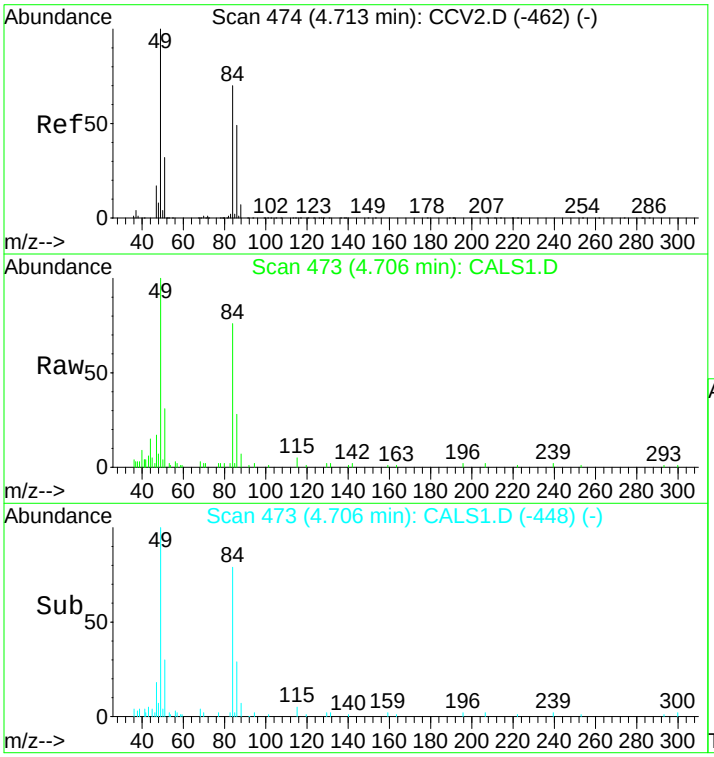
#19
methylacetate
Concen: 0.02 mg/kg m
RT: 4.62 min Scan# 459
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 74 Resp: 2832

Ion	Ratio	Lower	Upper
74	100		
59	47.2	16.2	56.2



AGK 09/29/16



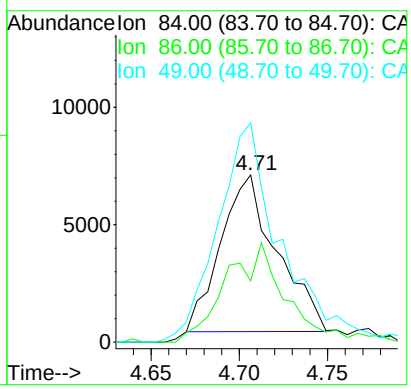
#20
Methylchlorid
Concen: 0.05 mg/kg m
RT: 4.71 min Scan# 473
Delta R.T. 0.00 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

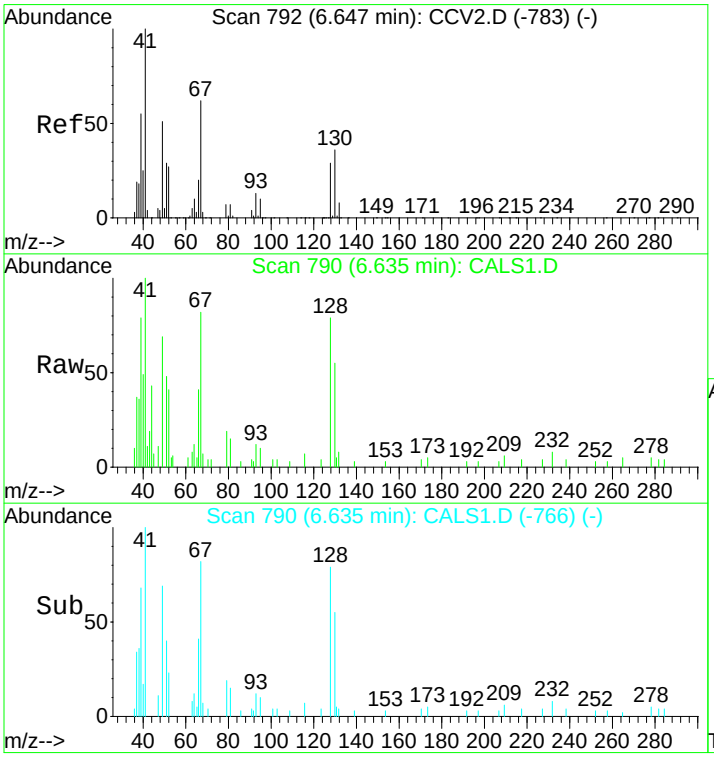
After Manual Integration

RJ 09/26/2016

Tgt Ion: 84 Resp: 14795

Ion	Ratio	Lower	Upper
84	100		
86	68.5	44.3	84.3
49	157.6	114.5	154.5#

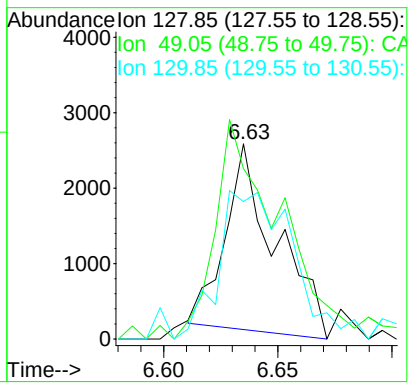




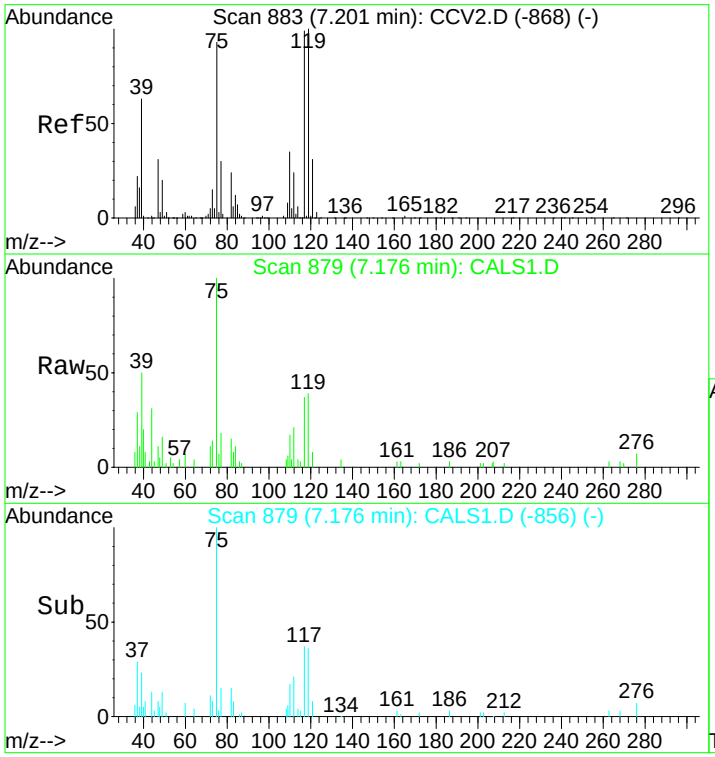
#37
Bromochlorma
Concen: 0.03 mg/kg m
RT: 6.63 min Scan# 790
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion:128 Resp: 3771

Ion	Ratio	Lower	Upper
128	100		
49	159.6	156.0	196.0
130	117.8	108.4	148.4



AGK 09/29/16



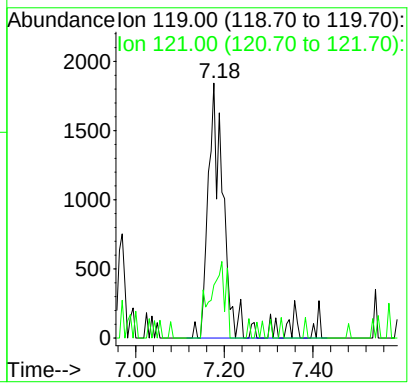
After Manual Integration

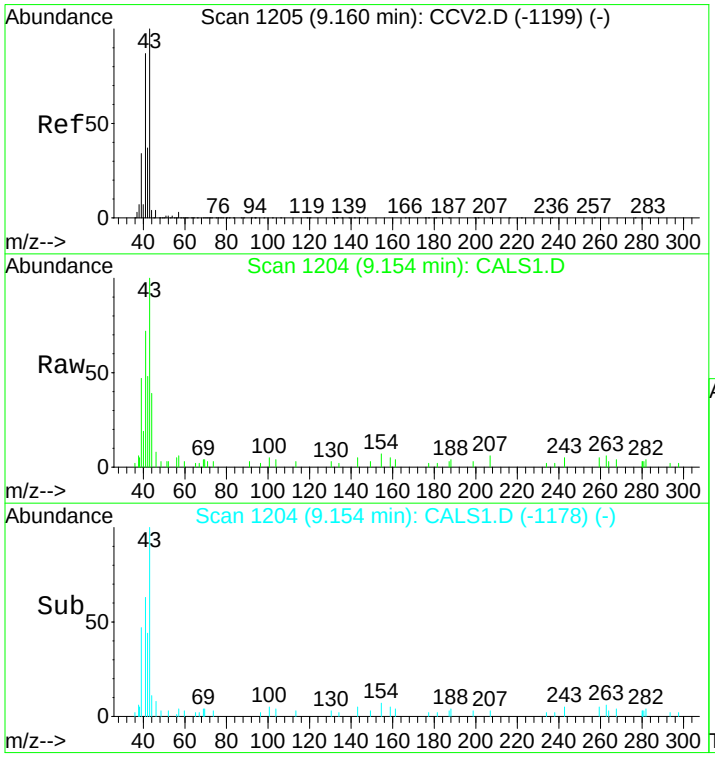
#43
Carbtetraclo
Concen: 0.02 mg/kg m
RT: 7.18 min Scan# 879
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion:119 Resp: 4763

Ion	Ratio	Lower	Upper
119	100		
121	27.7	11.3	51.3

RJ 09/26/2016

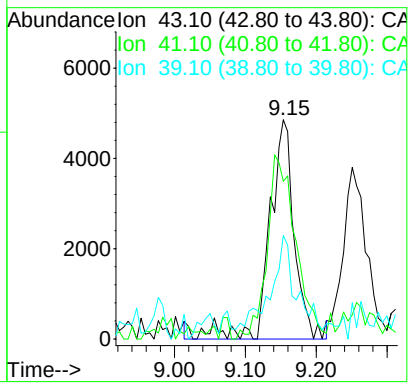




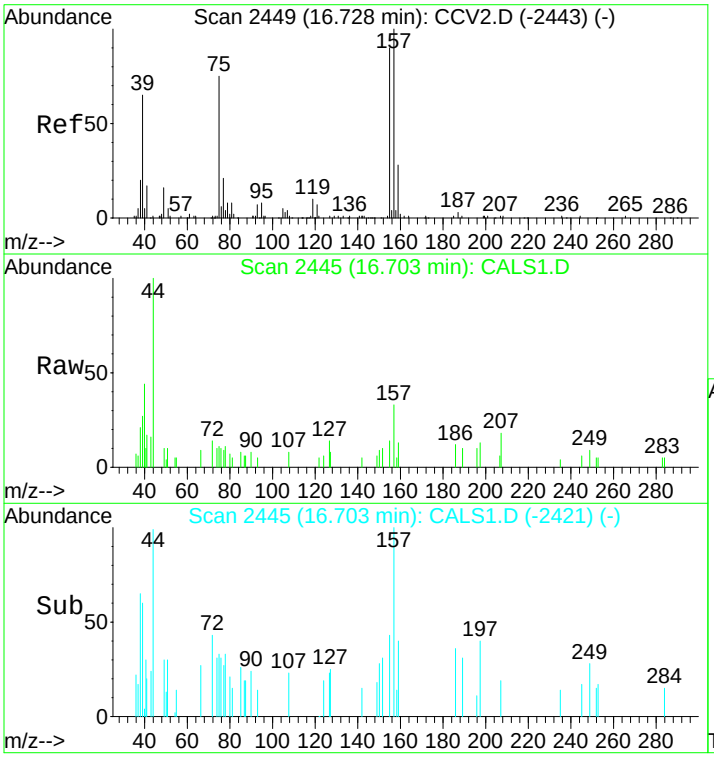
#57
2Nitropropane
Concen: 0.21 mg/kg m
RT: 9.15 min Scan# 1204
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 43 Resp: 11842

Ion	Ratio	Lower	Upper
43	100		
41	95.9	73.0	113.0
39	59.5	18.9	58.9#



AgK 09/29/16



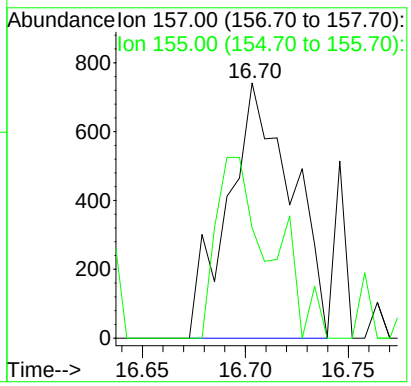
#100
12dibromo3cl
Concen: 0.03 mg/kg m
RT: 16.70 min Scan# 2445
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

After Manual Integration

RJ 09/26/2016

Tgt Ion:157 Resp: 1604

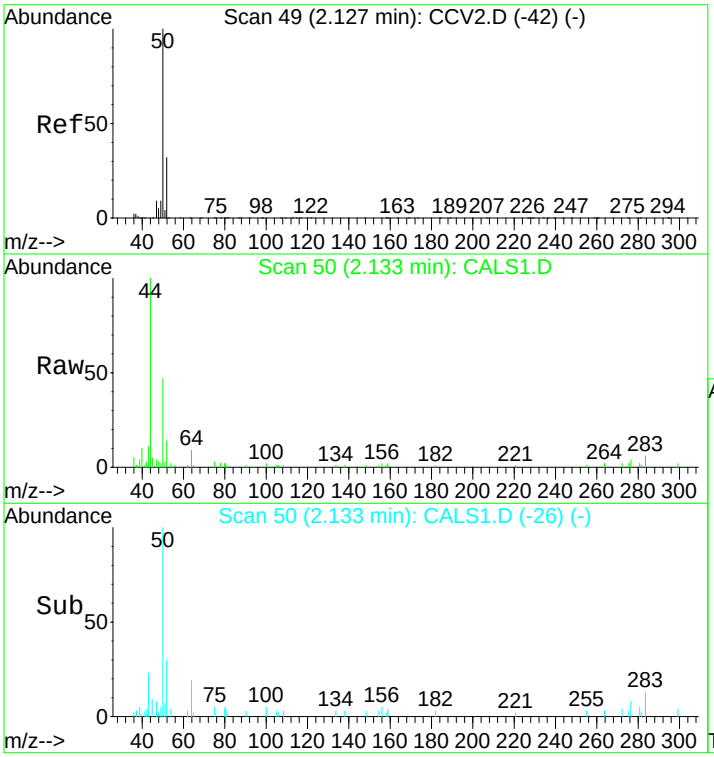
Ion	Ratio	Lower	Upper
157	100		
155	0.0	56.1	96.1#



AgK 09/29/16

Before Manual Integration

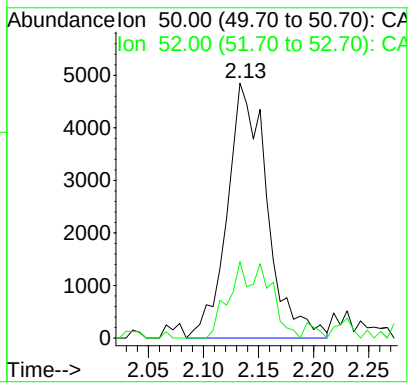
RJ 09/26/2016



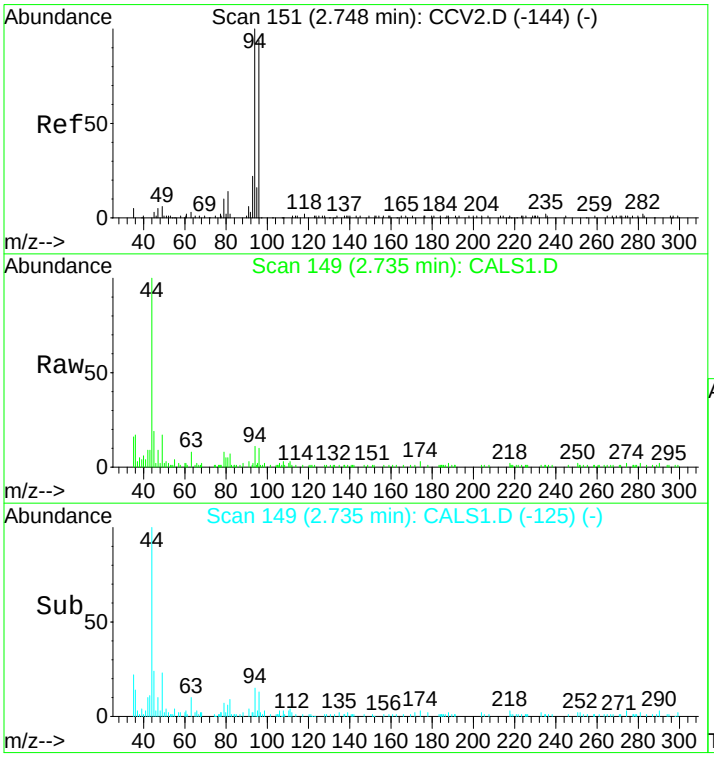
#3
Chloromethan
Concen: 0.04 mg/kg
RT: 2.13 min Scan# 50
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 50 Resp: 12208

Ion	Ratio	Lower	Upper
50	100		
52	29.7	13.3	53.3



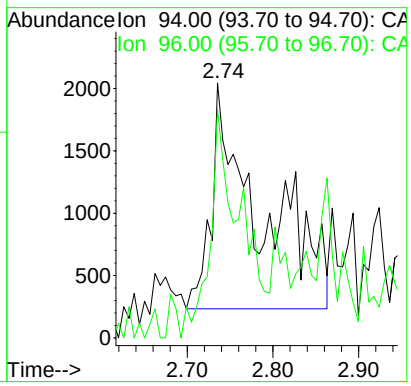
REASON # 2



#5
Bromomethane
Concen: 0.07 mg/kg
RT: 2.74 min Scan# 149
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 94 Resp: 7225

Ion	Ratio	Lower	Upper
94	100		
96	63.5	79.8	119.8#



REASON # 2

Before Manual Integration

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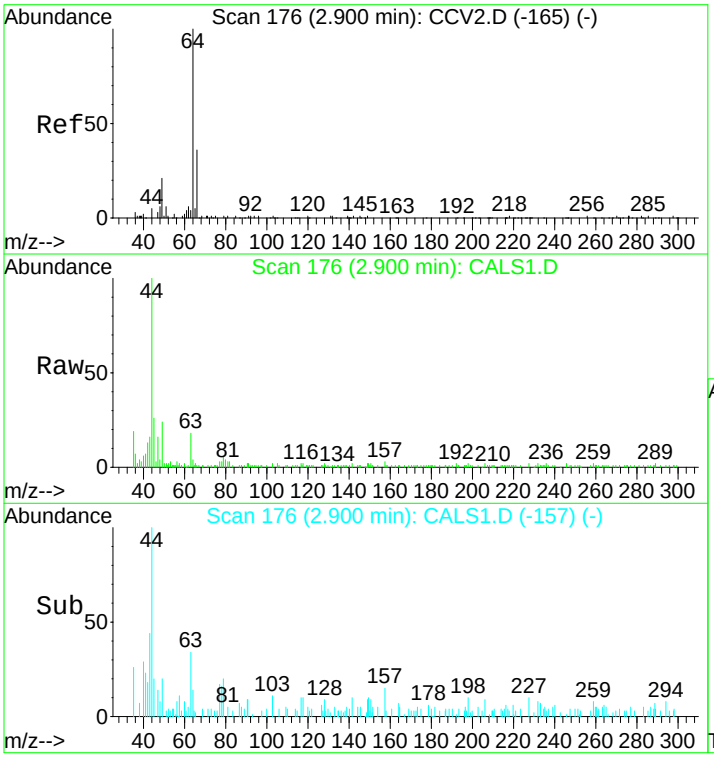
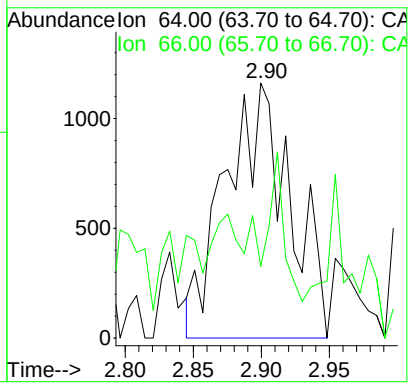


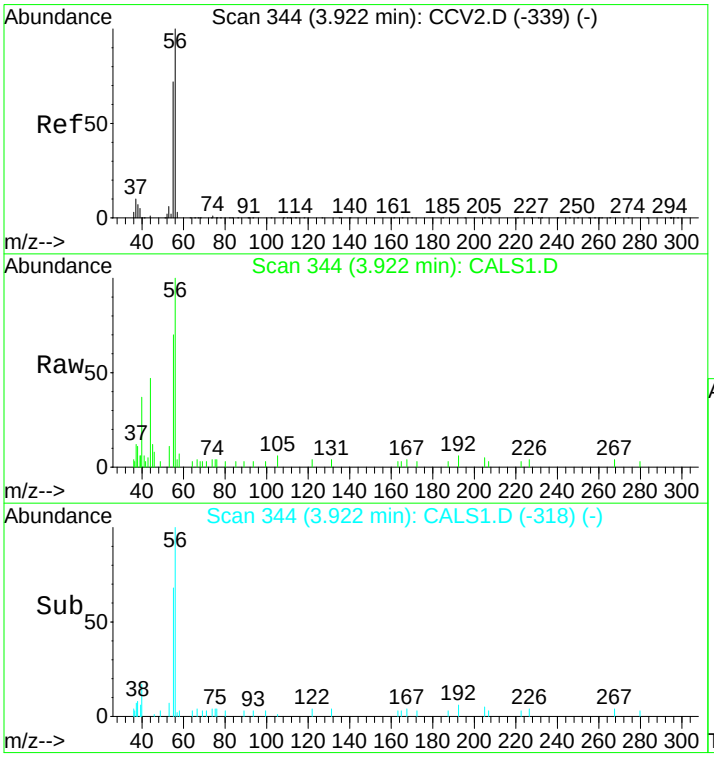
#6
Chloroethane
Concen: 0.04 mg/kg
RT: 2.90 min Scan# 176
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 64 Resp: 3816

Ion	Ratio	Lower	Upper
64	100		
66	0.0	8.9	48.9#



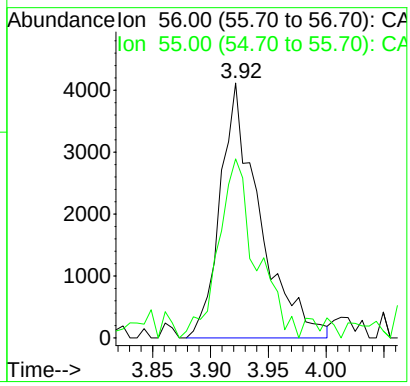
REASON # 2



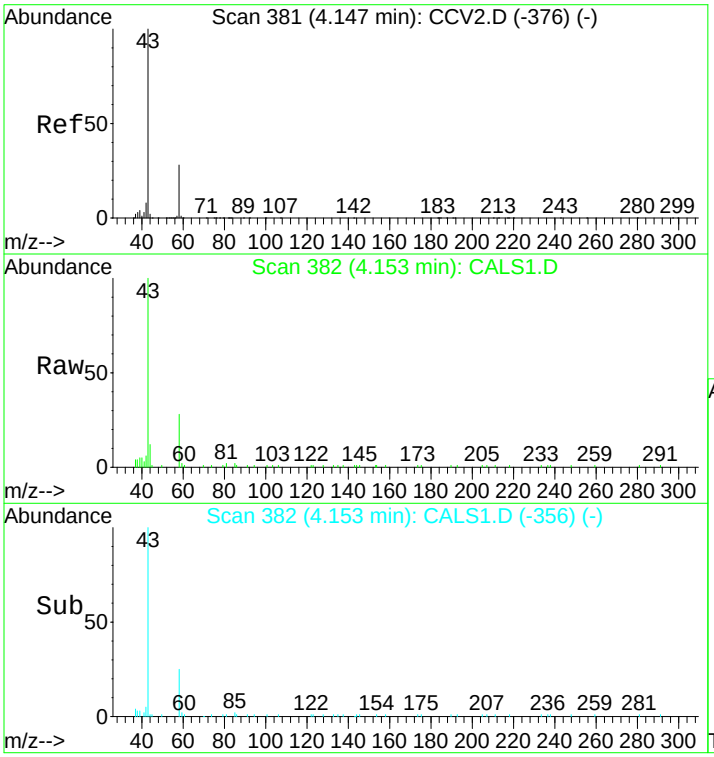
#12
Acrolein
Concen: 0.18 mg/kg
RT: 3.92 min Scan# 344
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 56 Resp: 9760

Ion	Ratio	Lower	Upper
56	100		
55	67.2	50.4	90.4



REASON # 2



#15
Acetone
Concen: 0.37 mg/kg
RT: 4.15 min Scan# 382
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Before Manual Integration

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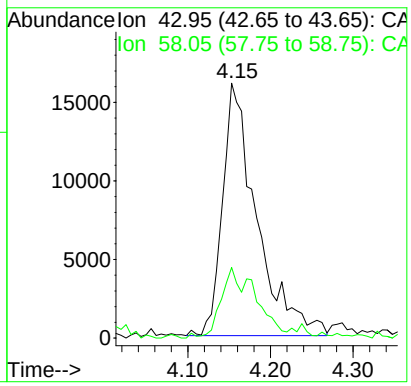
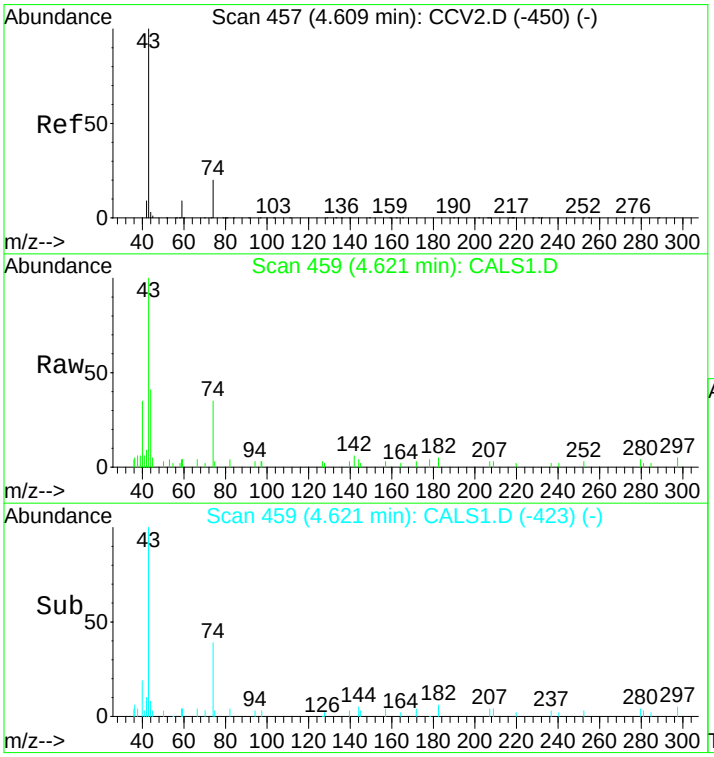
Tgt Ion: 43 Resp: 46176

Ion	Ratio	Lower	Upper
43	100		
58	28.2	6.5	46.5



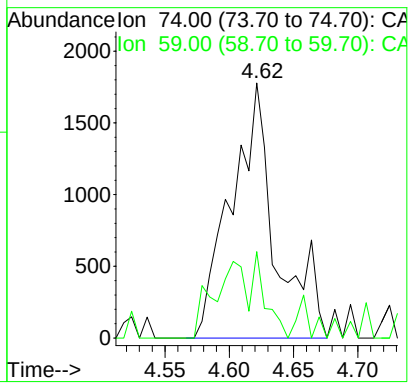
REASON # 2



#19
methylacetate
Concen: 0.04 mg/kg
RT: 4.62 min Scan# 459
Delta R.T. 0.02 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 74 Resp: 4268

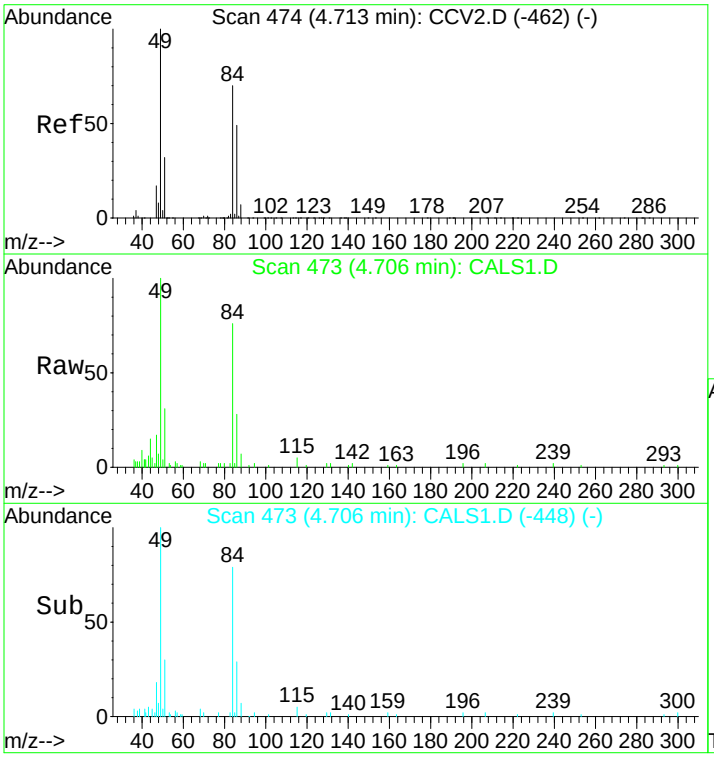
Ion	Ratio	Lower	Upper
74	100		
59	31.3	16.2	56.2



REASON # 2

Before Manual Integration

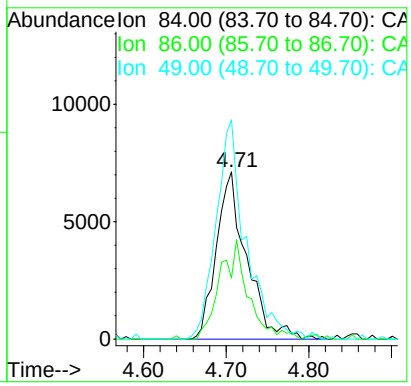
RJ 09/26/2016



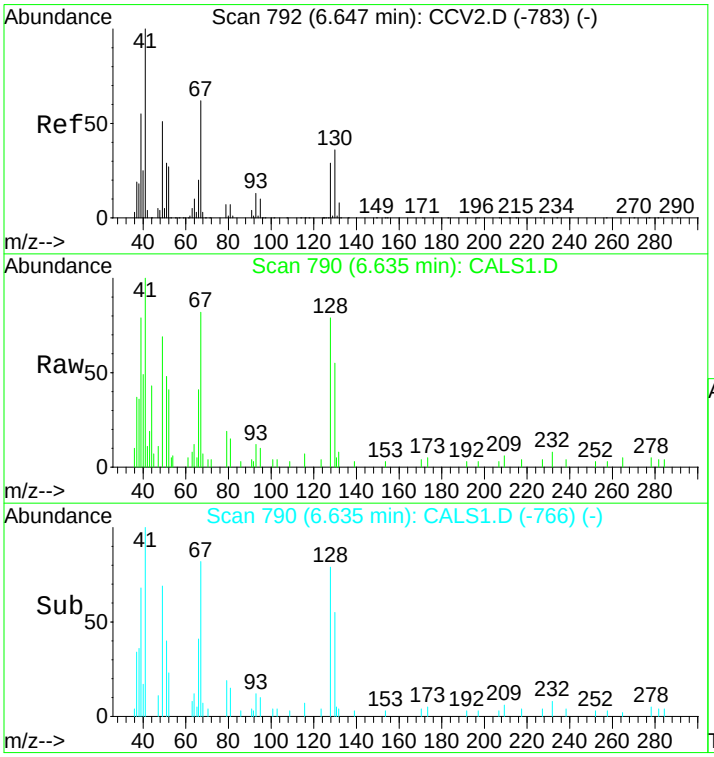
#20
Methylchlorid
Concen: 0.04 mg/kg
RT: 4.71 min Scan# 473
Delta R.T. 0.00 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 84 Resp: 18146

Ion	Ratio	Lower	Upper
84	100		
86	55.8	44.3	84.3
49	128.5	114.5	154.5



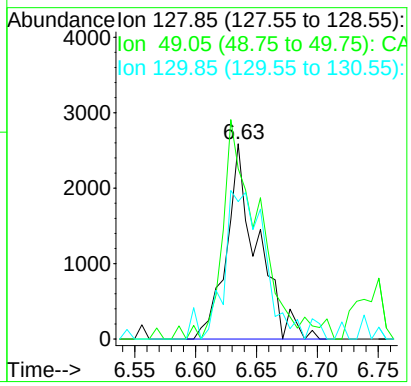
REASON # 2



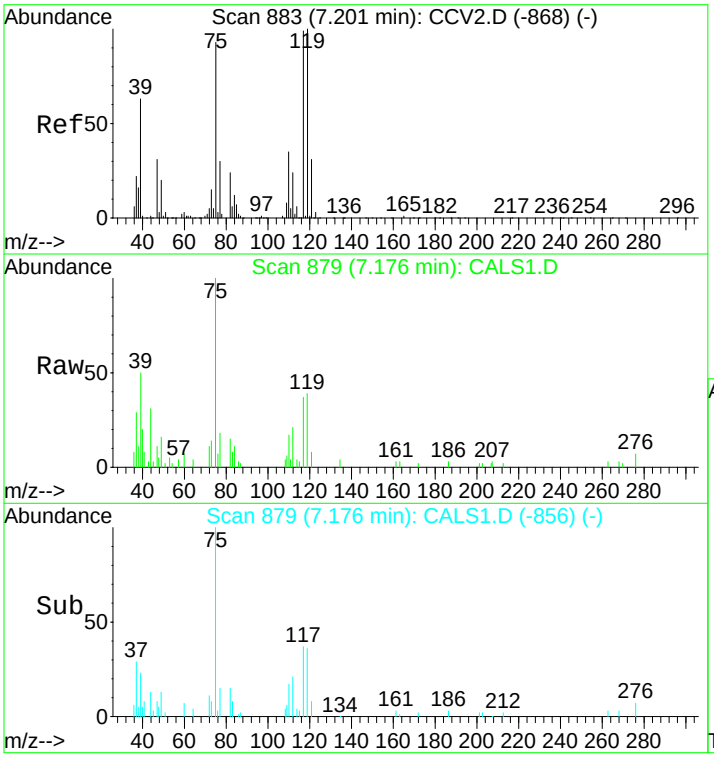
#37
Bromochlorma
Concen: 0.04 mg/kg
RT: 6.63 min Scan# 790
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion:128 Resp: 4556

Ion	Ratio	Lower	Upper
128	100		
49	132.1	156.0	196.0#
130	97.5	108.4	148.4#



REASON # 2



#43
Carbtetraclo
Concen: 0.02 mg/kg
RT: 7.18 min Scan# 879
Delta R.T. -0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Before Manual Integration

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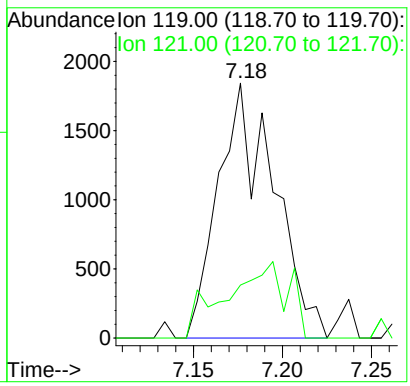
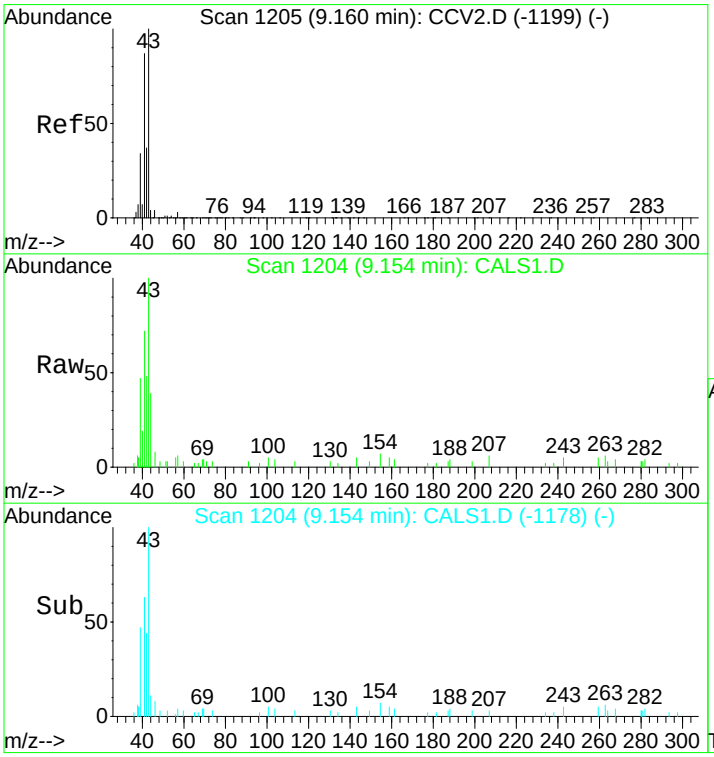
Tgt Ion:119 Resp: 4011

Ion	Ratio	Lower	Upper
119	100		
121	32.9	11.3	51.3



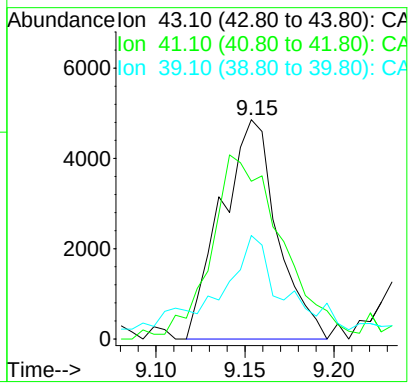
REASON # 2



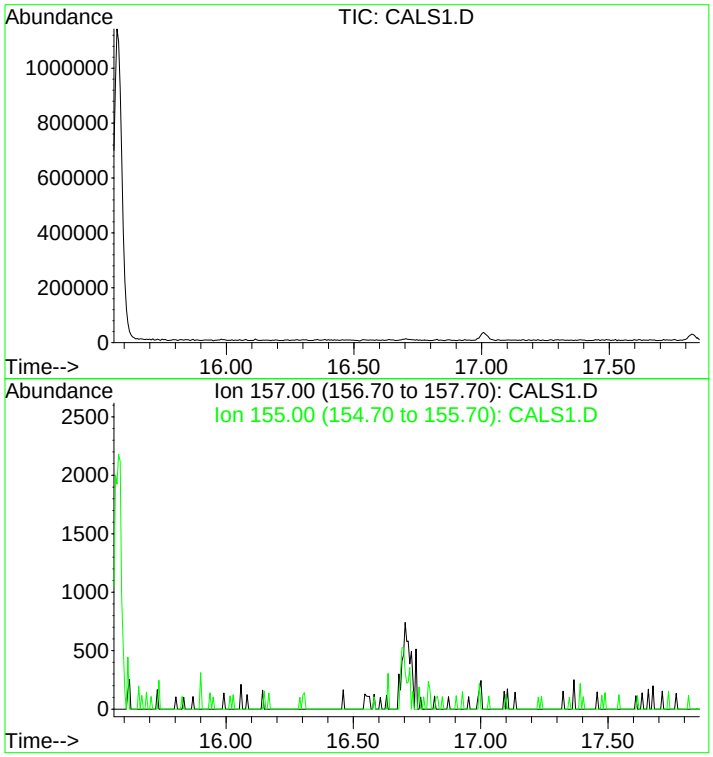
#57
2Nitropropane
Concen: 0.64 mg/kg
RT: 9.15 min Scan# 1204
Delta R.T. 0.01 min
Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 43 Resp: 10659

Ion	Ratio	Lower	Upper
43	100		
41	106.6	73.0	113.0
39	66.1	18.9	58.9#



REASON # 2



#100
12dibromo3cl
Concen: N.D.
Expected RT: 16.71 min

Lab File: CALS1.D
Acq: 21 Sep 2016 20:12

Tgt Ion: 157

Sig	Exp Ratio
157	100
155	76.1

Before Manual Integration

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REASON # 1

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS2.D Vial: 5
Acq On : 21 Sep 2016 20:41 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:54:05 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:20 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1138354	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	869708	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	472119	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	284289	0.997 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery	= 100 %	
45) SURR12DCAd4	7.36	102	71529	1.001 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery	= 100 %	
61) SURRd8Tolule	9.79	98	1101335	1.009 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery	= 101 %	
83) SURR4BrFBenz	13.36	95	395537	1.012 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery	= 101 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.90	85	32588	0.1098 mg/kg	98
3) Chloromethan	2.13	50	36118m	0.1030 mg/kg	97
4) VinylChlorid	2.30	62	33606	0.1042 mg/kg	91
5) Bromomethane	2.75	94	10725m	0.0843 mg/kg#	94
6) Chloroethane	2.89	64	13836m	0.1176 mg/kg	86
7) dichloroflmethane	3.23	67	50694	0.1072 mg/kg	89
8) Trichlorofma	3.28	101	43905	0.1104 mg/kg	99
9) Ethylether	3.76	59	20446	0.1046 mg/kg	89
10) dichlorotfluoroethan	3.77	67	30003	0.1078 mg/kg	93
11) propyleneoxide	3.82	58	66168	1.0106 mg/kg	92
12) Acrolein	3.92	56	27905	0.5019 mg/kg	99
13) 11dichlorthe	4.03	96	23440	0.1019 mg/kg	95
14) Trichlorotfluoroeth	4.06	101	50182	0.2139 mg/kg	99
15) Acetone	4.15	43	141707m	1.0350 mg/kg	97
16) Iodomethane	4.23	142	22689	0.1281 mg/kg	95
17) Carbon Dislf	4.30	76	116341	0.2053 mg/kg	99
18) allylchloride	4.54	41	77757	0.2191 mg/kg	96
19) methylacetate	4.61	74	11839	0.0977 mg/kg	94
20) Methylchlorid	4.71	84	32182m	0.0998 mg/kg	100
21) Acrylonitrile	5.04	53	77410	0.5539 mg/kg	99
22) t12dichlorte	5.07	96	26518	0.1054 mg/kg	98
23) tbutylalcohol	4.93	59	137518	4.7420 mg/kg	97
24) MtBE	5.09	73	71009	0.1026 mg/kg	95
25) Hexane	5.43	57	71202	0.2080 mg/kg	99
26) 11dichlorota	5.61	63	45982	0.1039 mg/kg	99
27) Vinylacetate	5.70	43	390105	0.9560 mg/kg	98
28) chloroprene	5.73	53	86850	0.2129 mg/kg	97
29) Diisopether	5.73	45	87332	0.1050 mg/kg#	75
30) ETBE	6.18	59	65513	0.0991 mg/kg	96
31) 22dichloropr	6.34	77	27992	0.0955 mg/kg	97
32) c12dichlorte	6.35	96	28175	0.1032 mg/kg	99
33) 2Butanone	6.38	72	48999	1.0668 mg/kg	97
34) propionitrile	6.44	54	58631	1.1023 mg/kg	99
35) Ethylacetate	6.48	88	6608	0.5001 mg/kg#	94
36) methacrylonitrile	6.63	67	26791	0.1926 mg/kg	95
37) Bromochlorma	6.64	128	14095	0.1081 mg/kg	95
38) Tetrahydofur	6.71	42	136641	1.0934 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS2.D Vial: 5
Acq On : 21 Sep 2016 20:41 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:54:05 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:20 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	48715	0.1087 mg/kg	98
40)	111trichlota	6.97	97	36111	0.0998 mg/kg	97
42)	Cyclohexane	7.04	56	41425	0.1016 mg/kg	90
43)	Carbtetraclo	7.18	119	20522	0.0888 mg/kg	86
44)	11dicloprope	7.19	110	12279	0.1055 mg/kg#	89
46)	Benzene	7.43	78	109461	0.1091 mg/kg	98
47)	12dichlorota	7.46	62	36400	0.1021 mg/kg	97
48)	TAME	7.59	73	61256	0.0972 mg/kg	93
49)	trichloroete	8.25	95	30010	0.1083 mg/kg	98
50)	methylcyclohexane	8.48	83	40644	0.0965 mg/kg	97
51)	12dicloropra	8.51	63	25723	0.1004 mg/kg	99
52)	23dicl1propene	8.58	75	36093	0.0967 mg/kg	94
53)	Dibromometha	8.67	93	15450	0.0971 mg/kg	95
54)	methylmethacrylate	8.68	69	19121	0.0934 mg/kg	98
55)	14dioxane	8.72	88	6692	4.1606 mg/kg	98
56)	Bromodiclrma	8.87	83	28390	0.0975 mg/kg	94
57)	2Nitropropane	9.15	43	46602	0.8054 mg/kg	98
58)	2CLEVE	9.26	63	44940	0.4403 mg/kg	98
59)	c13dicloproe	9.44	75	33265	0.0961 mg/kg	96
60)	4Meth2Pentan	9.64	43	404012	1.1420 mg/kg	99
62)	Toluene	9.88	92	66292	0.1075 mg/kg	97
63)	t13Dicloprop	10.16	75	23438	0.0854 mg/kg	94
64)	ethylmethacrylate	10.29	69	59241	0.1817 mg/kg	99
65)	112Triclotha	10.40	83	20397	0.1042 mg/kg	97
66)	Tetrachlorte	10.61	166	31154	0.0977 mg/kg	88
67)	13Diclorpropa	10.62	76	40228	0.1056 mg/kg	97
69)	2Hexanone	10.74	43	301084	1.1074 mg/kg	98
70)	Clorodibrmta	10.92	129	17849	0.0844 mg/kg	97
71)	12Dibrometha	11.08	107	22361	0.0934 mg/kg	94
72)	Chlorobenzen	11.76	112	70924	0.1050 mg/kg	89
73)	1Clhexane	11.72	91	38237	0.1059 mg/kg	85
74)	1112Tetclota	11.86	131	18665	0.0910 mg/kg	92
75)	Ethylbenzene	11.91	91	120883	0.1046 mg/kg	100
76)	m p-Xylene	12.07	106	90370	0.2053 mg/kg	100
77)	o-Xylene	12.62	106	43612	0.1030 mg/kg	94
78)	Styrene	12.65	104	67515	0.0986 mg/kg	99
79)	Bromoform	12.88	173	12647	0.0815 mg/kg	97
80)	Isopropylben	13.14	105	107387	0.1026 mg/kg	98
82)	cyclohexanone	13.27	55	11749	1.5239 mg/kg	91
84)	Bromobenzene	13.58	156	34298	0.1056 mg/kg	96
85)	1122Tetrclta	13.55	83	30583	0.0959 mg/kg	98
86)	123Triclproa	13.61	75	35168	0.0936 mg/kg	99
87)	14dichloro2butene	13.64	53	6141	0.0856 mg/kg	89
88)	n-Propylbenz	13.73	91	134683	0.1051 mg/kg	97
89)	2chlorotolue	13.85	91	76035	0.0988 mg/kg	95
90)	4chlorotolue	14.00	91	86989	0.1005 mg/kg	97
91)	135Trimebenz	13.99	105	88962	0.0983 mg/kg	96
92)	tbutylbenzen	14.46	119	76624	0.0986 mg/kg	96
93)	124Trimetben	14.53	105	86312	0.0973 mg/kg	98
94)	sbutylbenzen	14.77	105	117252	0.1001 mg/kg	97
95)	13Diclorbenz	14.93	146	57990	0.1047 mg/kg	95
96)	pIsopropylto	14.99	119	97327	0.1009 mg/kg	97
97)	14dichlorobe	15.05	146	52780	0.0951 mg/kg	86
98)	12dichlorobe	15.60	146	55148	0.1042 mg/kg	90
99)	nButylbenzen	15.59	91	87765	0.1001 mg/kg	100
100)	12dibromo3cl	16.72	157	4680	0.0705 mg/kg	86
101)	135Trichlorobenzene	17.01	180	45312	0.1002 mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS2.D Vial: 5
Acq On : 21 Sep 2016 20:41 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:54:05 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:20 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	36430	0.0968 mg/kg	97
103) Hexachlorobu	18.06	225	21949	0.0984 mg/kg	96
104) Naphthalene	18.13	128	79673	0.0944 mg/kg	99
105) 123Trichlben	18.44	180	33804	0.0943 mg/kg	98

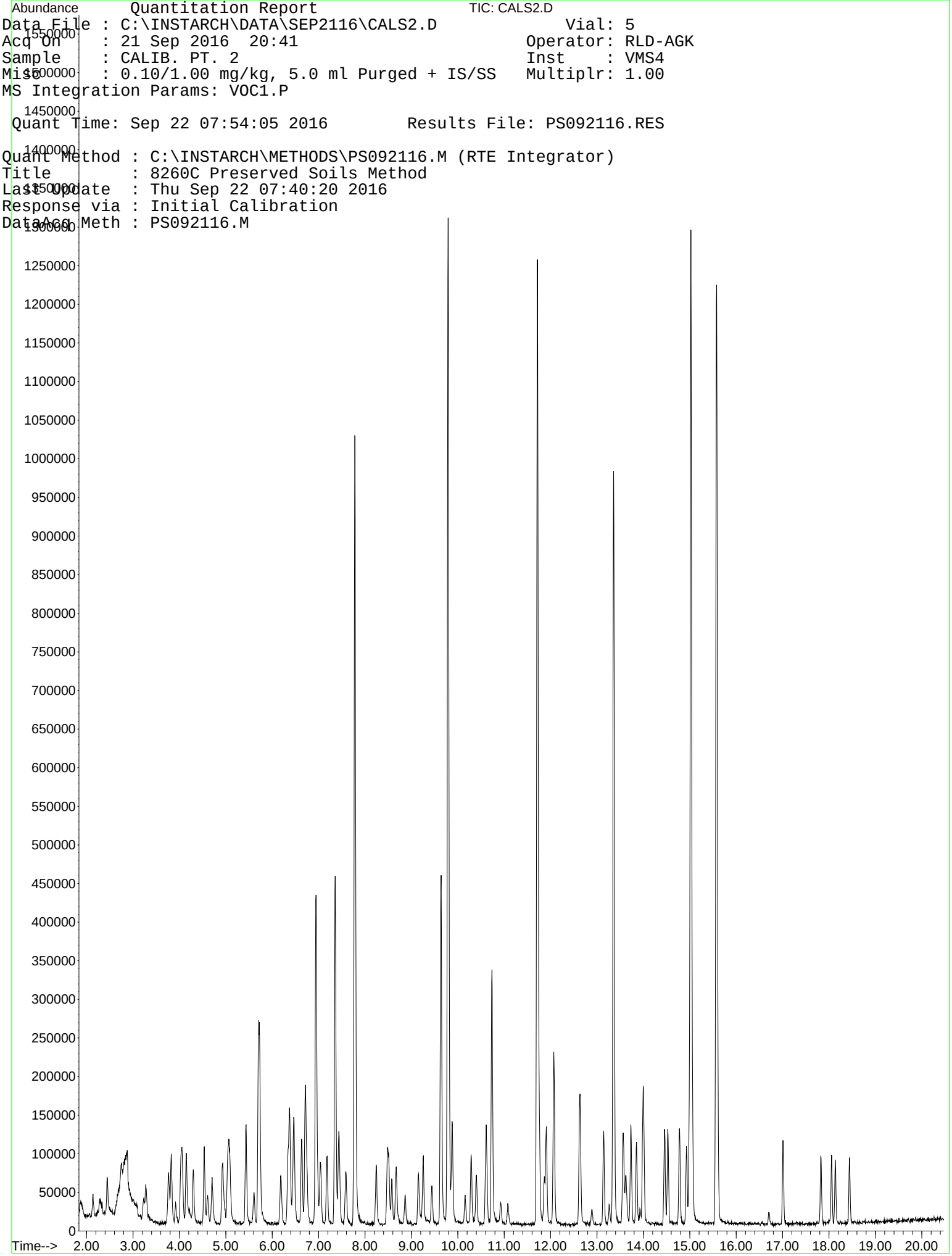
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS2.D Vial: 5
Acq On : 21 Sep 2016 20:41 Operator: RLD-AGK
Sample : CALIB. PT. 2 Inst : VMS4
Misc : 0.10/1.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

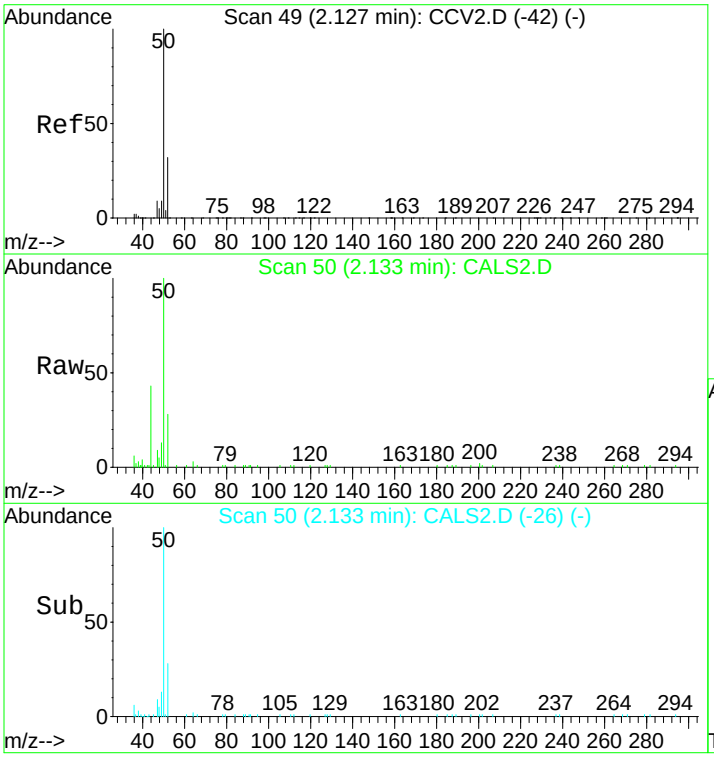
Quant Time: Sep 22 07:54:05 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:20 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



After Manual Integration

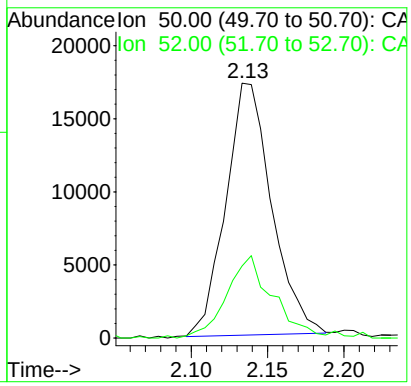
RJ 09/26/2016

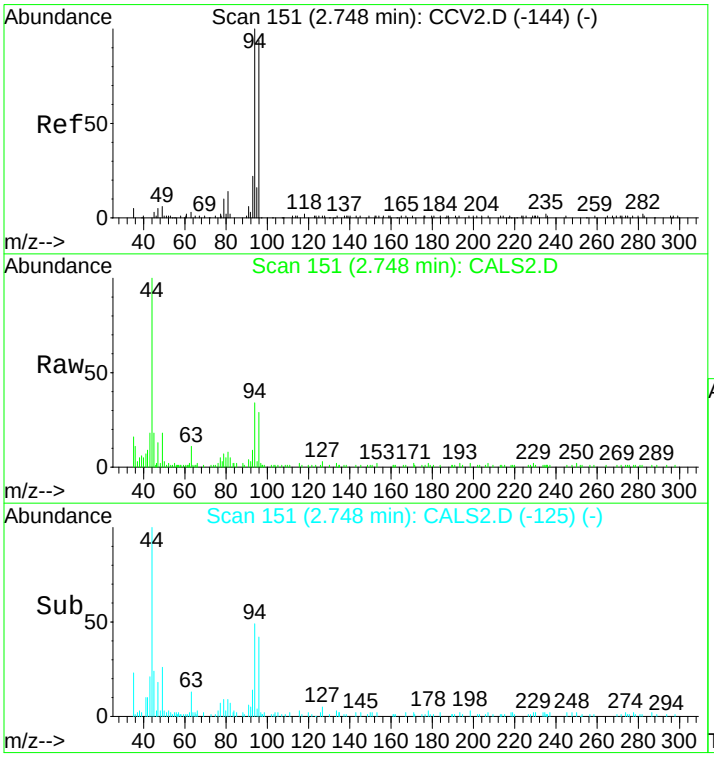


#3
Chloromethan
Concen: 0.10 mg/kg m
RT: 2.13 min Scan# 50
Delta R.T. -0.01 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Tgt Ion: 50 Resp: 36118

Ion	Ratio	Lower	Upper
50	100		
52	33.9	13.3	53.3

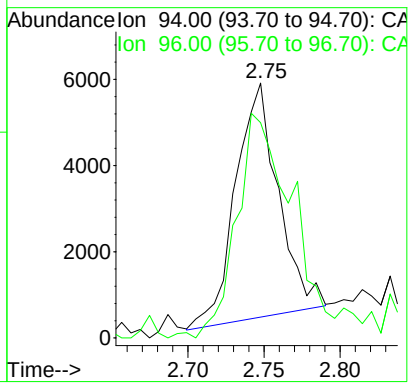




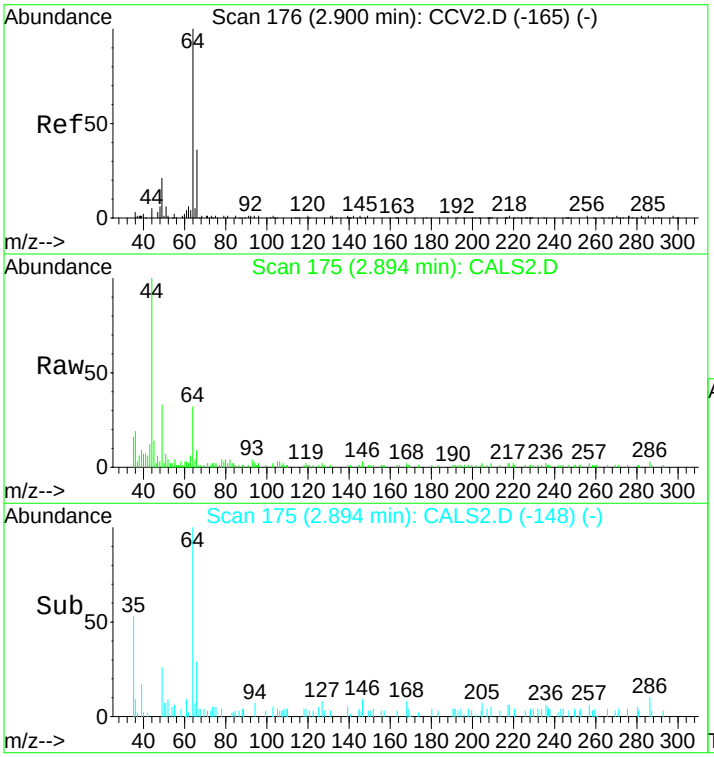
#5
Bromomethane
Concen: 0.08 mg/kg m
RT: 2.75 min Scan# 151
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Tgt Ion: 94 Resp: 10725

Ion	Ratio	Lower	Upper
94	100		
96	130.9	79.8	119.8#



AgK 09/29/16



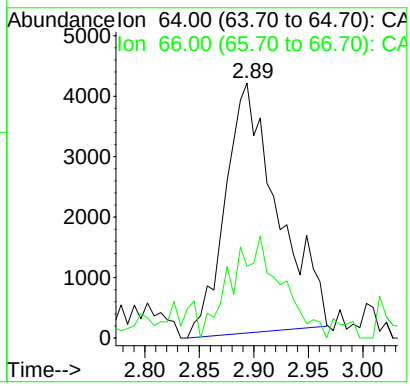
#6
Chloroethane
Concen: 0.12 mg/kg m
RT: 2.89 min Scan# 175
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

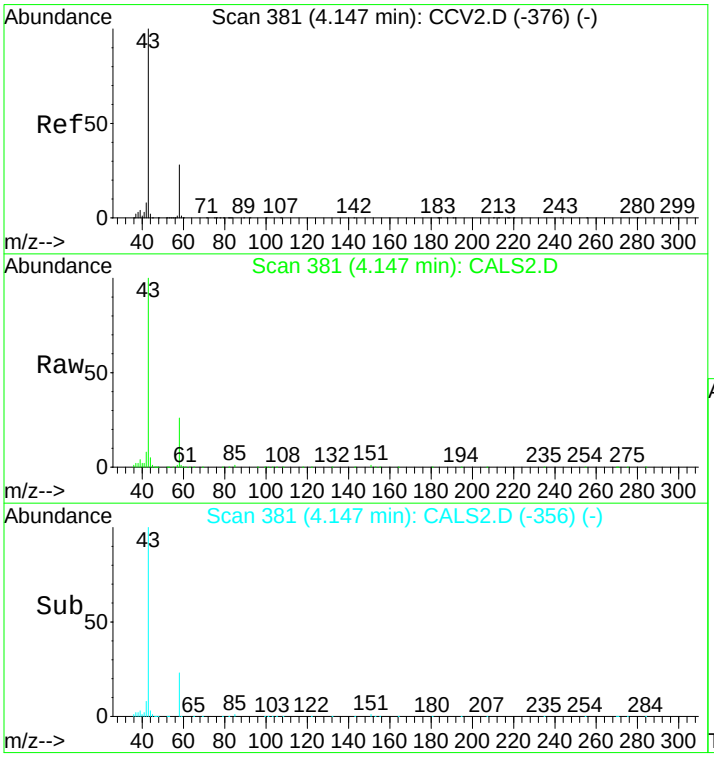
Tgt Ion: 64 Resp: 13836

Ion	Ratio	Lower	Upper
64	100		
66	38.6	9.1	49.1

After Manual Integration

RJ 09/26/2016

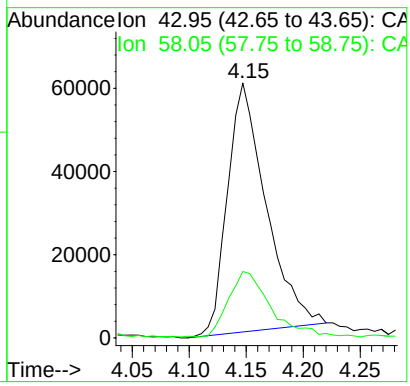




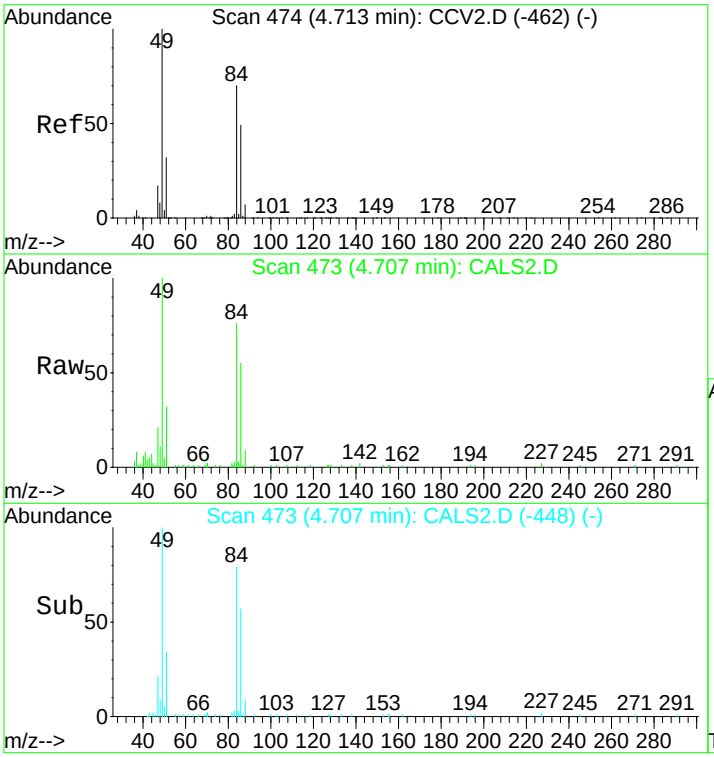
#15
Acetone
Concen: 1.04 mg/kg m
RT: 4.15 min Scan# 381
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Tgt Ion: 43 Resp: 141707

Ion	Ratio	Lower	Upper
43	100		
58	28.7	6.5	46.5



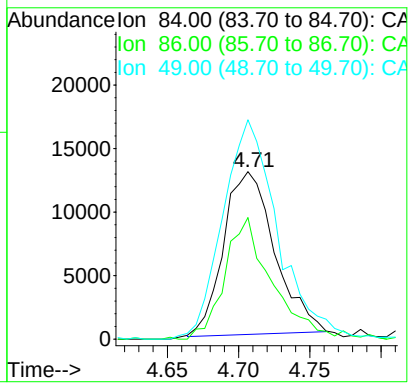
AgK 09/29/16



#20
Methylchlorid
Concen: 0.10 mg/kg m
RT: 4.71 min Scan# 473
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Tgt Ion: 84 Resp: 32182

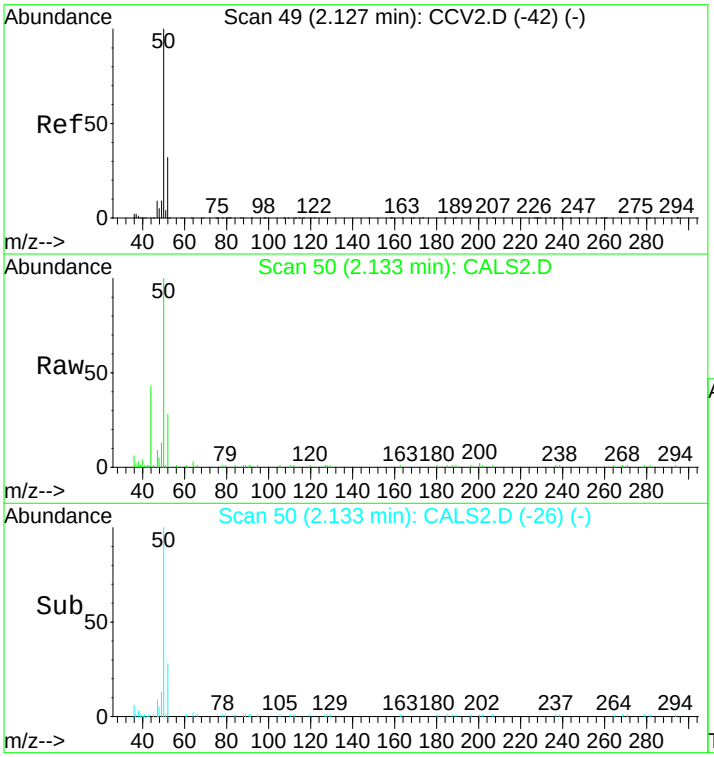
Ion	Ratio	Lower	Upper
84	100		
86	69.7	44.3	84.3
49	145.3	114.5	154.5



After Manual Integration

RJ 09/26/2016

AGK 09/29/16



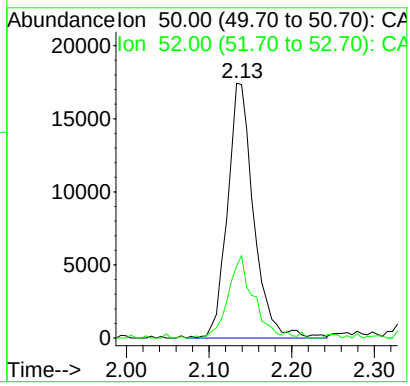
#3
Chloromethan
Concen: 0.11 mg/kg
RT: 2.13 min Scan# 50
Delta R.T. -0.01 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Before Manual Integration

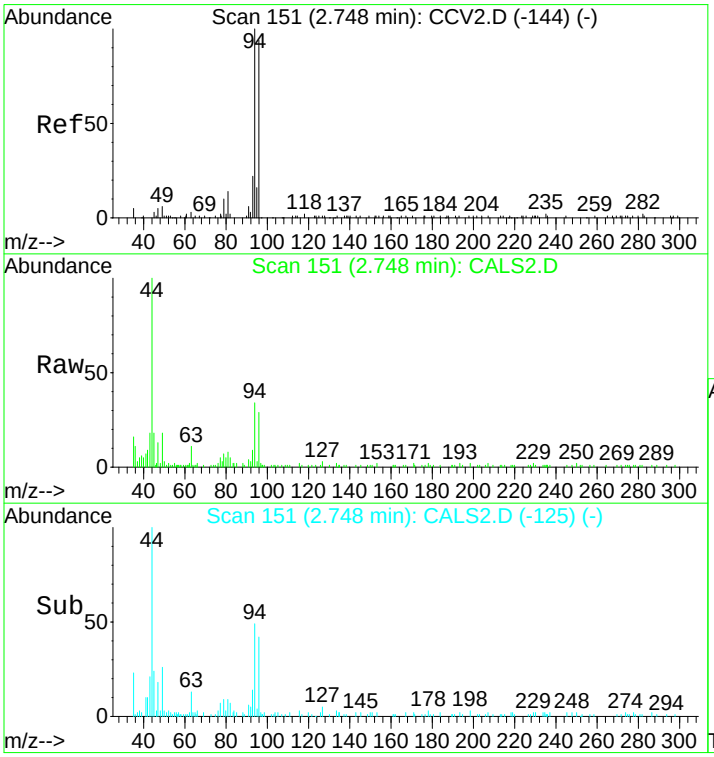
RJ 09/26/2016

Tgt Ion: 50 Resp: 38396

Ion	Ratio	Lower	Upper
50	100		
52	31.9	13.3	53.3



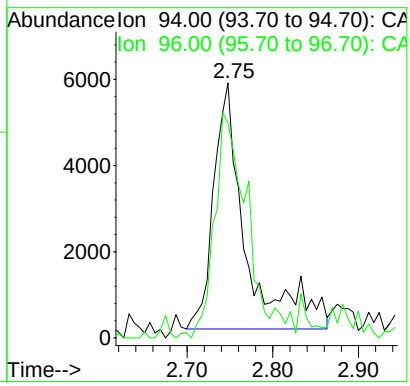
REASON # 2



#5
Bromomethane
Concen: 0.15 mg/kg
RT: 2.75 min Scan# 151
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Tgt Ion: 94 Resp: 15019

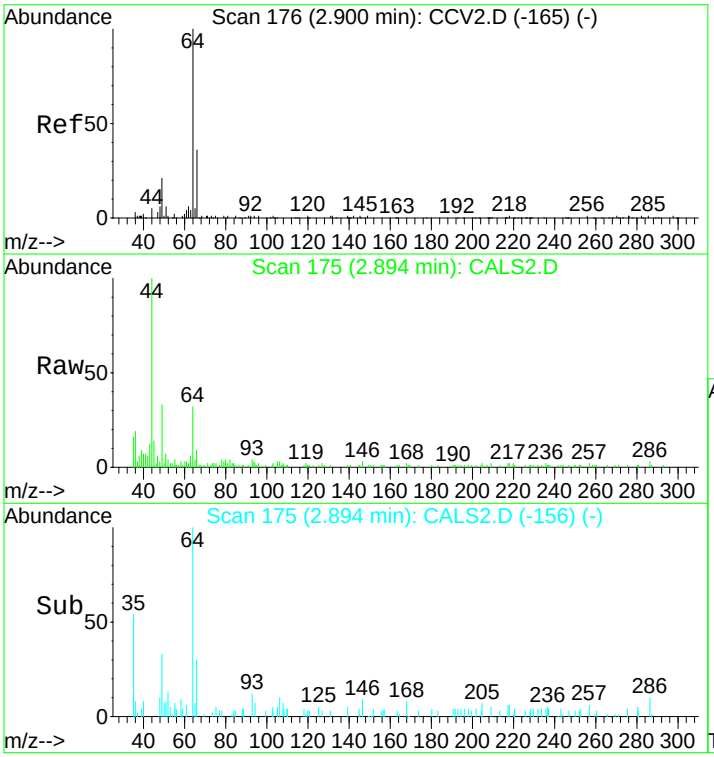
Ion	Ratio	Lower	Upper
94	100		
96	93.4	79.8	119.8



REASON # 2

Before Manual Integration

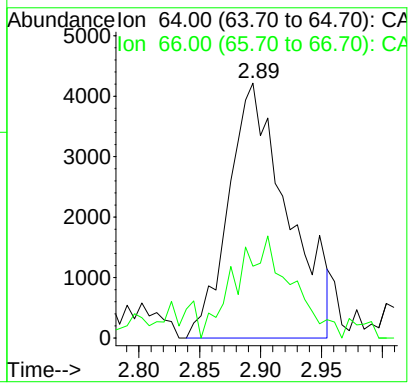
RJ 09/26/2016



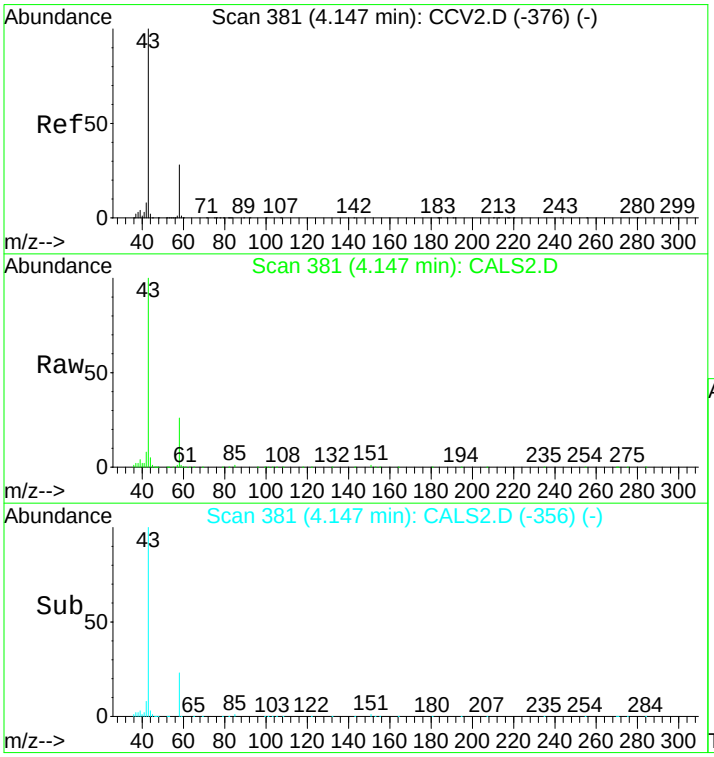
#6
Chloroethane
Concen: 0.13 mg/kg
RT: 2.89 min Scan# 175
Delta R.T. 0.01 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Tgt Ion: 64 Resp: 14165

Ion	Ratio	Lower	Upper
64	100		
66	36.3	8.9	48.9



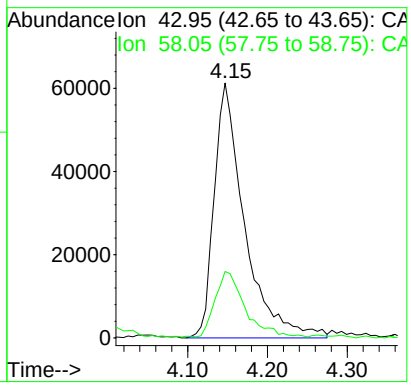
REASON # 2



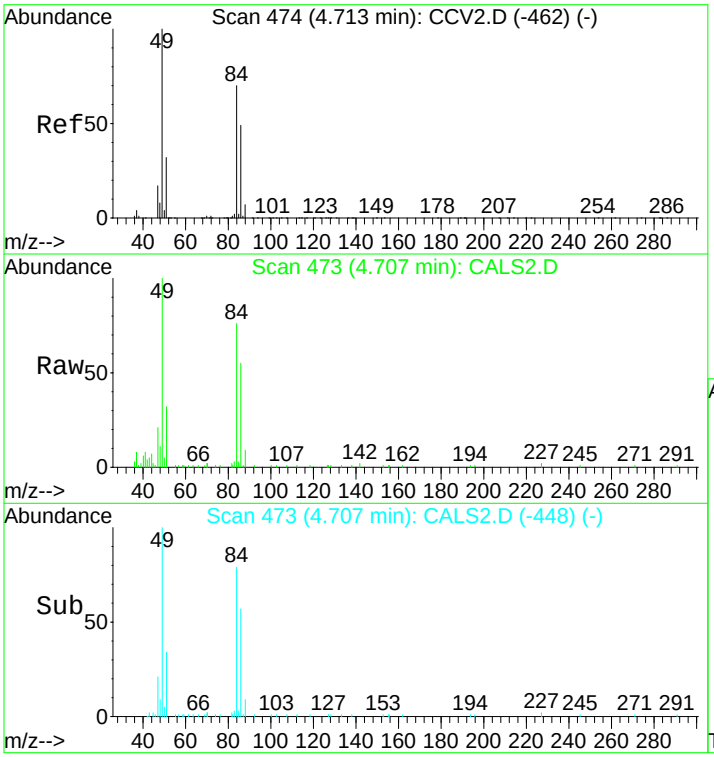
#15
Acetone
Concen: 1.27 mg/kg
RT: 4.15 min Scan# 381
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Tgt Ion: 43 Resp: 161868

Ion	Ratio	Lower	Upper
43	100		
58	25.1	6.5	46.5



REASON # 2



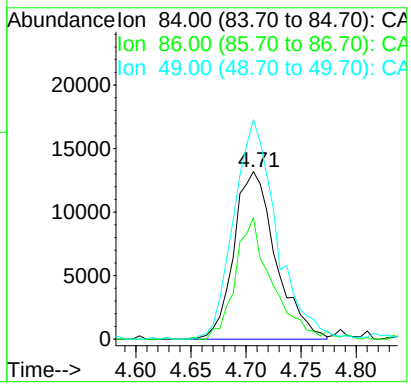
#20
Methylchlorid
Concen: 0.11 mg/kg
RT: 4.71 min Scan# 473
Delta R.T. 0.00 min
Lab File: CALS2.D
Acq: 21 Sep 2016 20:41

Before Manual Integration

RJ 09/26/2016

Tgt Ion: 84 Resp: 34889

Ion	Ratio	Lower	Upper
84	100		
86	64.3	44.3	84.3
49	134.0	114.5	154.5



REASON # 2

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS3.D Vial: 6
Acq On : 21 Sep 2016 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:38:49 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:38:41 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1198091	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	900942	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	493414	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.94	113	294666	0.999 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery = 100 %		
45) SURR12DCAd4	7.35	102	76700	1.012 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery = 101 %		
61) SURRd8Tolule	9.79	98	1148737	0.995 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery = 100 %		
83) SURR4BrFBenz	13.36	95	411335	1.004 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery = 100 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.90	85	81191	0.2489 mg/kg	97
3) Chloromethan	2.14	50	90815	0.2169 mg/kg	97
4) VinylChlorid	2.29	62	85888	0.2367 mg/kg	100
5) Bromomethane	2.74	94	27721	0.1472 mg/kg	97
6) Chloroethane	2.89	64	29598	0.2086 mg/kg	93
7) dichloroflmethane	3.22	67	127439	0.2349 mg/kg	90
8) Trichlorofma	3.27	101	108259	0.2437 mg/kg	97
9) Ethylether	3.76	59	48564	0.2351 mg/kg	83
10) dichlorotfluoroethan	3.78	67	74458	0.2355 mg/kg	98
11) propyleneoxide	3.82	58	174899	2.4926 mg/kg	98
12) Acrolein	3.92	56	68056	1.0676 mg/kg	94
13) 11dichlorthe	4.03	96	63898	0.2584 mg/kg	94
14) Trichlorotfluoroeth	4.06	101	122925	0.4719 mg/kg	93
15) Acetone	4.15	43	368480	2.1765 mg/kg	100
16) Iodomethane	4.22	142	66794	0.4620 mg/kg	90
17) Carbon Dislf	4.30	76	301317	0.4979 mg/kg	98
18) allylchloride	4.54	41	184738	0.4725 mg/kg	99
19) methylacetate	4.61	74	34131	0.2353 mg/kg	95
20) Methylchlorid	4.70	84	72221	0.1543 mg/kg	98
21) Acrylonitrile	5.04	53	188117	1.2077 mg/kg	98
22) t12dichlorte	5.07	96	65850	0.2311 mg/kg	96
23) tbutylalcohol	4.94	59	376573	12.8284 mg/kg	99
24) MtBE	5.09	73	181662	0.2357 mg/kg	96
25) Hexane	5.43	57	182189	0.4855 mg/kg	99
26) 11dichlorota	5.60	63	115120	0.2327 mg/kg	98
27) Vinylacetate	5.70	43	1068837	2.6223 mg/kg	98
28) chloroprene	5.73	53	222245	0.5022 mg/kg	98
29) Diisopether	5.73	45	221837	0.2466 mg/kg#	87
30) ETBE	6.18	59	173234	0.2476 mg/kg	98
31) 22dichloropr	6.34	77	71095	0.2282 mg/kg	97
32) c12dichlorte	6.35	96	72139	0.2396 mg/kg	98
33) 2Butanone	6.38	72	122958	2.3667 mg/kg	99
34) propionitrile	6.45	54	146490	2.4772 mg/kg	96
35) Ethylacetate	6.47	88	17598	1.2773 mg/kg	96
36) methacrylonitrile	6.63	67	76747	0.5146 mg/kg	93
37) Bromochlorma	6.63	128	33422	0.2146 mg/kg	96
38) Tetrahydofur	6.71	42	340482	2.3828 mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS3.D Vial: 6
Acq On : 21 Sep 2016 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:38:49 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:38:41 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	119129	0.2388 mg/kg	95
40)	111trichlota	6.97	97	93166	0.2466 mg/kg	96
42)	Cyclohexane	7.04	56	108574	0.2481 mg/kg	96
43)	Carbtetraclo	7.19	119	56056	0.2767 mg/kg	100
44)	11dicloprope	7.18	110	29930	0.2519 mg/kg	98
46)	Benzene	7.44	78	267535	0.2416 mg/kg	98
47)	12dichlorota	7.46	62	92268	0.2277 mg/kg	99
48)	TAME	7.58	73	159284	0.2441 mg/kg	97
49)	trichloroete	8.24	95	75142	0.2357 mg/kg	97
50)	methylcyclohexane	8.48	83	112348	0.2543 mg/kg	99
51)	12dicloropra	8.52	63	67057	0.2467 mg/kg	96
52)	23dicl1propene	8.58	75	97938	0.2538 mg/kg	99
53)	Dibromometha	8.66	93	41125	0.2448 mg/kg	96
54)	methylmethacrylate	8.67	69	50293	0.2410 mg/kg	95
55)	14dioxane	8.70	88	23333	14.5618 mg/kg	93
56)	Bromodiclrma	8.86	83	69902	0.2340 mg/kg	91
57)	2Nitropropane	9.15	43	119985	2.4642 mg/kg	97
58)	2CLEVE	9.25	63	130319	1.3220 mg/kg	98
59)	c13dicloproe	9.44	75	86832	0.2522 mg/kg	97
60)	4Meth2Pentan	9.64	43	1044032	2.5146 mg/kg	100
62)	Toluene	9.88	92	163184	0.2389 mg/kg	100
63)	t13Dicloprop	10.16	75	62773	0.2466 mg/kg	96
64)	ethylmethacrylate	10.29	69	163049	0.5215 mg/kg	98
65)	112Triclotha	10.40	83	53709	0.2491 mg/kg	94
66)	Tetrachlorte	10.60	166	86486	0.2565 mg/kg	97
67)	13Diclorpropa	10.62	76	102476	0.2466 mg/kg	99
69)	2Hexanone	10.74	43	789644	2.6190 mg/kg	99
70)	Clorodibrmta	10.92	129	47265	0.2409 mg/kg	96
71)	12Dibrometha	11.08	107	59383	0.2504 mg/kg	99
72)	Chlorobenzen	11.75	112	181793	0.2502 mg/kg	97
73)	1Clhexane	11.72	91	90274	0.2294 mg/kg	93
74)	1112Tetclota	11.87	131	45714	0.2328 mg/kg	98
75)	Ethylbenzene	11.91	91	310765	0.2552 mg/kg	99
76)	m p-Xylene	12.07	106	240296	0.5252 mg/kg	97
77)	o-Xylene	12.62	106	110765	0.2535 mg/kg	99
78)	Styrene	12.64	104	175704	0.2512 mg/kg	99
79)	Bromoform	12.89	173	32761	0.2409 mg/kg	98
80)	Isopropylben	13.14	105	272271	0.2501 mg/kg	97
82)	cyclohexanone	13.27	55	44976	5.7861 mg/kg	97
84)	Bromobenzene	13.57	156	83071	0.2366 mg/kg	93
85)	1122Tetrclta	13.56	83	84627	0.2583 mg/kg	98
86)	123Triclproa	13.61	75	98957	0.2553 mg/kg	91
87)	14dichloro2butene	13.65	53	16836	0.2474 mg/kg	97
88)	n-Propylbenz	13.73	91	347581	0.2539 mg/kg	99
89)	2chlorotolue	13.85	91	201394	0.2368 mg/kg	98
90)	4chlorotolue	14.01	91	232827	0.2528 mg/kg	99
91)	135Trimebenz	13.99	105	241292	0.2528 mg/kg	99
92)	tbutylbenzen	14.46	119	202794	0.2475 mg/kg	99
93)	124Trimetben	14.53	105	236525	0.2548 mg/kg	97
94)	sbutylbenzen	14.77	105	312102	0.2530 mg/kg	100
95)	13Diclorbenz	14.93	146	142511	0.2369 mg/kg	99
96)	pIsopropylto	14.99	119	257713	0.2582 mg/kg	100
97)	14dichlorobe	15.06	146	150052	0.2530 mg/kg	99
98)	12dichlorobe	15.60	146	141534	0.2438 mg/kg	99
99)	nButylbenzen	15.59	91	221374	0.2393 mg/kg	97
100)	12dibromo3cl	16.70	157	14487	0.2646 mg/kg	97
101)	135Trichlorobenzene	17.01	180	117082	0.2466 mg/kg	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS3.D Vial: 6
Acq On : 21 Sep 2016 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:38:49 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:38:41 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	94847	0.2442 mg/kg	98
103) Hexachlorobu	18.05	225	56734	0.2464 mg/kg	94
104) Naphthalene	18.14	128	218134	0.2558 mg/kg	99
105) 123Trichlben	18.44	180	90340	0.2357 mg/kg	97

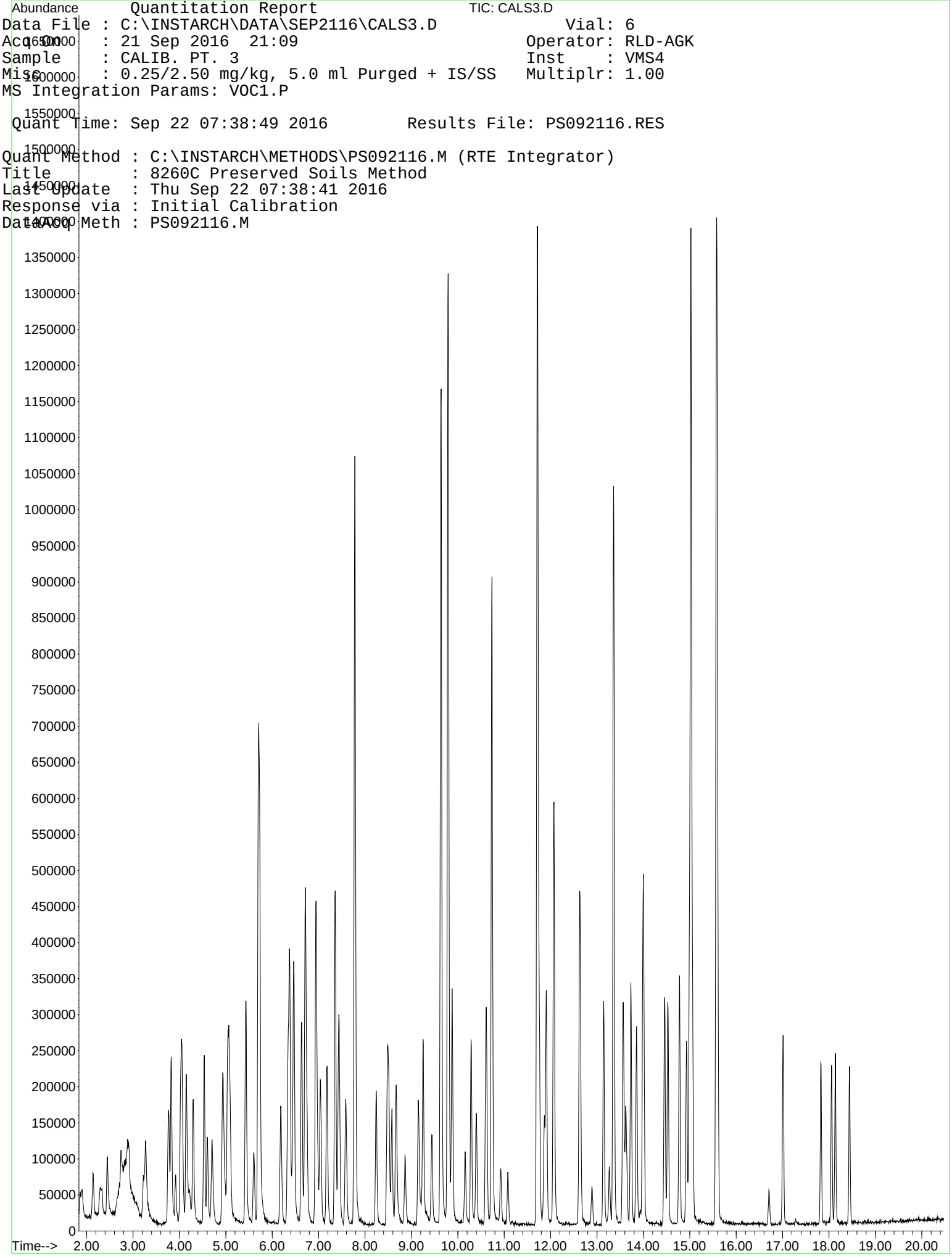
(#) = qualifier out of range (m) = manual integration
CALS3.D PS092116.M Mon Sep 26 14:50:44 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS3.D Vial: 6
Acq On : 21 Sep 2016 21:09 Operator: RLD-AGK
Sample : CALIB. PT. 3 Inst : VMS4
Misc : 0.25/2.50 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:38:49 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:38:41 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS4.D Vial: 7
Acq On : 21 Sep 2016 21:38 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:49:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:48:56 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1241691	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	938435	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	518762	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	308318	0.988 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery = 99 %		
45) SURR12DCAd4	7.36	102	78968	1.013 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery = 101 %		
61) SURRd8Tolule	9.79	98	1196152	1.005 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery = 100 %		
83) SURR4BrFBenz	13.36	95	424841	0.991 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery = 99 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.91	85	156225	0.1473 mg/kg	100
3) Chloromethan	2.14	50	171466	0.1546 mg/kg	100
4) VinylChlorid	2.29	62	168545	0.1477 mg/kg	100
5) Bromomethane	2.74	94	51016	0.2097 mg/kg	100
6) Chloroethane	2.88	64	56443	0.1622 mg/kg	100
7) dichloroflmethane	3.23	67	246074	0.1477 mg/kg	100
8) Trichlorofma	3.28	101	204660	0.1467 mg/kg	100
9) Ethylether	3.76	59	104481	0.1473 mg/kg	100
10) dichlorotfluoroethan	3.77	67	146649	0.1479 mg/kg	100
11) propyleneoxide	3.82	58	340995	1.4686 mg/kg	100
12) Acrolein	3.92	56	128124	0.8385 mg/kg	100
13) 11dichlorthe	4.03	96	121987	0.1475 mg/kg	100
14) Trichlorotfluoroeth	4.06	101	249826	0.2958 mg/kg	100
15) Acetone	4.15	43	732554	1.7703 mg/kg	100
16) Iodomethane	4.22	142	149332	0.2742 mg/kg	100
17) Carbon Dislf	4.29	76	591104	0.2935 mg/kg	100
18) allylchloride	4.53	41	370203	0.2938 mg/kg	100
19) methylacetate	4.60	74	66553	0.2080 mg/kg	100
20) Methylchlorid	4.71	84	136054	0.1595 mg/kg	100
21) Acrylonitrile	5.04	53	377772	0.7413 mg/kg	100
22) t12dichlorte	5.06	96	128319	0.1469 mg/kg	100
23) tbutylalcohol	4.94	59	765183	7.3424 mg/kg	100
24) MtBE	5.09	73	348555	0.1463 mg/kg	100
25) Hexane	5.43	57	359993	0.2948 mg/kg	100
26) 11dichlorota	5.61	63	234032	0.1480 mg/kg	100
27) Vinylacetate	5.70	43	2314645	1.4885 mg/kg	100
28) chloroprene	5.72	53	441354	0.2961 mg/kg	100
29) Diisopether	5.73	45	444245	0.1476 mg/kg	100
30) ETBE	6.18	59	340282	0.1464 mg/kg	100
31) 22dichloropr	6.34	77	145420	0.1454 mg/kg	100
32) c12dichlorte	6.34	96	140434	0.1468 mg/kg	100
33) 2Butanone	6.37	72	245736	1.4840 mg/kg	100
34) propionitrile	6.45	54	283232	1.4769 mg/kg	100
35) Ethylacetate	6.46	88	34438	0.7324 mg/kg	100
36) methacrylonitrile	6.63	67	146100	0.2948 mg/kg	100
37) Bromochlorma	6.64	128	64497	0.1576 mg/kg	100
38) Tetrahydofur	6.71	42	656219	1.4782 mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS4.D Vial: 7
Acq On : 21 Sep 2016 21:38 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:49:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:48:56 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	225218	0.1459 mg/kg	100
40)	111trichlota	6.97	97	180679	0.1451 mg/kg	100
42)	Cyclohexane	7.04	56	218968	0.1479 mg/kg	100
43)	Carbtetraclo	7.19	119	114364	0.1517 mg/kg	100
44)	11dicloprope	7.18	110	60911	0.1460 mg/kg	100
46)	Benzene	7.44	78	531655	0.1475 mg/kg	100
47)	12dichlorota	7.45	62	184347	0.1476 mg/kg	100
48)	TAME	7.59	73	330603	0.1467 mg/kg	100
49)	trichloroete	8.24	95	143072	0.1474 mg/kg	100
50)	methylcyclohexane	8.49	83	217835	0.1465 mg/kg	100
51)	12dicloropra	8.51	63	133871	0.1468 mg/kg	100
52)	23dicl1propene	8.58	75	189886	0.1457 mg/kg	100
53)	Dibromometha	8.67	93	84533	0.1475 mg/kg	100
54)	methylmethacrylate	8.68	69	101514	0.1448 mg/kg	100
55)	14dioxane	8.71	88	45837	7.4833 mg/kg	100
56)	Bromodiclrma	8.87	83	152234	0.1465 mg/kg	100
57)	2Nitropropane	9.15	43	267102	1.4001 mg/kg	100
58)	2CLEVE	9.25	63	269972	0.7322 mg/kg	100
59)	c13dicloproe	9.44	75	177895	0.1454 mg/kg	100
60)	4Meth2Pentan	9.64	43	2019406	1.5073 mg/kg	100
62)	Toluene	9.88	92	318639	0.1468 mg/kg	100
63)	t13Dicloprop	10.16	75	137805	0.1442 mg/kg	100
64)	ethylmethacrylate	10.29	69	347036	0.2928 mg/kg	100
65)	112Triclotha	10.40	83	99788	0.1464 mg/kg	100
66)	Tetrachlorte	10.60	166	173263	0.1482 mg/kg	100
67)	13Diclorpropa	10.63	76	200267	0.1472 mg/kg	100
69)	2Hexanone	10.74	43	1546648	1.5042 mg/kg	100
70)	Clorodibrmta	10.92	129	104482	0.1443 mg/kg	100
71)	12Dibrometha	11.08	107	124744	0.1466 mg/kg	100
72)	Chlorobenzen	11.76	112	356206	0.1478 mg/kg	100
73)	1Clhexane	11.72	91	182902	0.1466 mg/kg	100
74)	1112Tetclota	11.87	131	95184	0.1422 mg/kg	100
75)	Ethylbenzene	11.91	91	611685	0.1475 mg/kg	100
76)	m p-Xylene	12.07	106	467233	0.2950 mg/kg	100
77)	o-Xylene	12.62	106	223495	0.1472 mg/kg	100
78)	Styrene	12.65	104	368888	0.1479 mg/kg	100
79)	Bromoform	12.89	173	72456	0.1416 mg/kg	100
80)	Isopropylben	13.14	105	551493	0.1473 mg/kg	100
82)	cyclohexanone	13.27	55	88065	3.0025 mg/kg	100
84)	Bromobenzene	13.57	156	175385	0.1478 mg/kg	100
85)	1122Tetrclta	13.56	83	170213	0.1471 mg/kg	100
86)	123Triclproa	13.62	75	176231	0.1429 mg/kg	100
87)	14dichloro2butene	13.64	53	34843	0.1432 mg/kg	100
88)	n-Propylbenz	13.73	91	699310	0.1480 mg/kg	100
89)	2chlorotolue	13.85	91	406367	0.1479 mg/kg	100
90)	4chlorotolue	14.01	91	468049	0.1479 mg/kg	100
91)	135Trimebenz	13.99	105	490541	0.1479 mg/kg	100
92)	tbutylbenzen	14.46	119	418861	0.1478 mg/kg	100
93)	124Trimetben	14.53	105	490240	0.1485 mg/kg	100
94)	sbutylbenzen	14.77	105	636406	0.1479 mg/kg	100
95)	13Diclorbenz	14.93	146	296326	0.1477 mg/kg	100
96)	pIsopropylto	14.99	119	525496	0.1477 mg/kg	100
97)	14dichlorobe	15.06	146	297246	0.1480 mg/kg	100
98)	12dichlorobe	15.60	146	284613	0.1481 mg/kg	100
99)	nButylbenzen	15.59	91	475924	0.1479 mg/kg	100
100)	12dibromo3cl	16.71	157	31858	0.1428 mg/kg	100
101)	135Trichlorobenzene	17.01	180	238120	0.1468 mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS4.D Vial: 7
Acq On : 21 Sep 2016 21:38 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:49:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:48:56 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	202627	0.1475 mg/kg	100
103) Hexachlorobu	18.05	225	121313	0.1477 mg/kg	100
104) Naphthalene	18.14	128	462646	0.1478 mg/kg	100
105) 123Trichlben	18.44	180	190260	0.1477 mg/kg	100

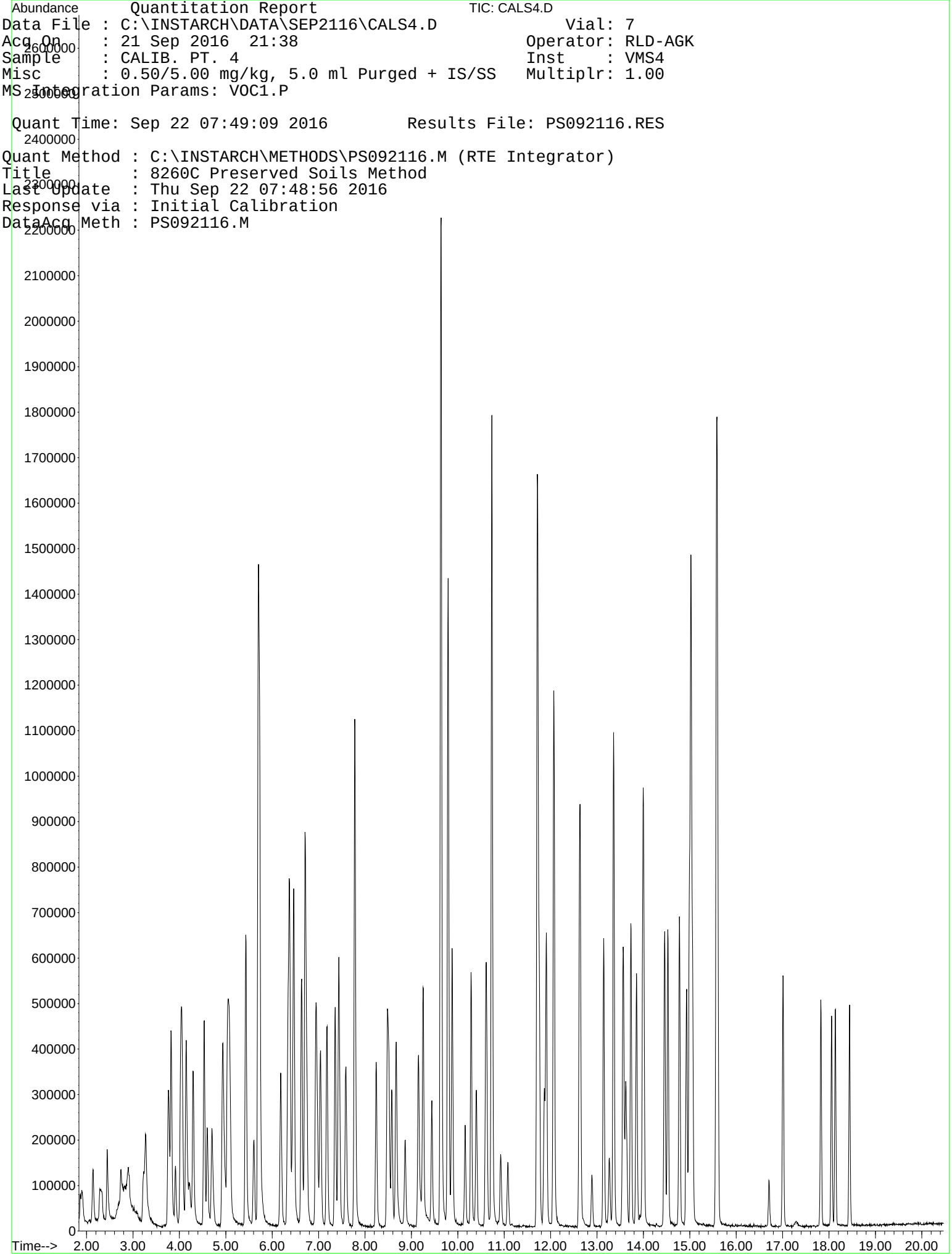
(#) = qualifier out of range (m) = manual integration
CALS4.D PS092116.M Mon Sep 26 14:50:49 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS4.D Vial: 7
Acq On : 21 Sep 2016 21:38 Operator: RLD-AGK
Sample : CALIB. PT. 4 Inst : VMS4
Misc : 0.50/5.00 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:49:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:48:56 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS5.D Vial: 8
Acq On : 21 Sep 2016 22:06 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:20 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:12 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1250782	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	943059	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	532141	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	314077	1.020 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery	= 102 %	
45) SURR12DCAd4	7.36	102	78253	0.986 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery	= 99 %	
61) SURRd8Tolule	9.79	98	1197307	0.994 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery	= 99 %	
83) SURR4BrFBenz	13.36	95	432639	0.978 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery	= 98 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.90	85	331231	0.9693 mg/kg	99
3) Chloromethan	2.14	50	355717	0.8417 mg/kg	98
4) VinylChlorid	2.29	62	347511	0.9290 mg/kg	98
5) Bromomethane	2.74	94	103261	0.5855 mg/kg	98
6) Chloroethane	2.89	64	133832	0.9423 mg/kg	97
7) dichloroflmethane	3.23	67	497600	0.8920 mg/kg	98
8) Trichlorofma	3.28	101	430016	0.9336 mg/kg	96
9) Ethylether	3.76	59	220609	1.0364 mg/kg	95
10) dichlorotfluoroethan	3.78	67	294552	0.9054 mg/kg	97
11) propyleneoxide	3.82	58	696704	9.5179 mg/kg	98
12) Acrolein	3.92	56	263712	4.1085 mg/kg	98
13) 11dichlorthe	4.03	96	248172	0.9532 mg/kg	99
14) Trichlorotfluoroeth	4.06	101	511208	1.9065 mg/kg	99
15) Acetone	4.15	43	1268650	7.4108 mg/kg	99
16) Iodomethane	4.23	142	444481	3.0018 mg/kg	98
17) Carbon Dislf	4.30	76	1255758	1.9897 mg/kg	99
18) allylchloride	4.54	41	768445	1.9089 mg/kg	99
19) methylacetate	4.60	74	111424	0.7468 mg/kg	96
20) Methylchlorid	4.71	84	274545	0.6213 mg/kg	99
21) Acrylonitrile	5.03	53	737056	4.5676 mg/kg	97
22) t12dichlorte	5.07	96	259710	0.8898 mg/kg	98
23) tbutylalcohol	4.93	59	1523288	49.0471 mg/kg	96
24) MtBE	5.09	73	714748	0.9011 mg/kg	97
25) Hexane	5.44	57	746500	1.9194 mg/kg	99
26) 11dichlorota	5.61	63	473049	0.9300 mg/kg	99
27) Vinylacetate	5.70	43	5395608	12.5233 mg/kg	98
28) chloroprene	5.73	53	914922	1.9782 mg/kg	99
29) Diisopether	5.73	45	918016	0.9807 mg/kg#	78
30) ETBE	6.18	59	714027	0.9799 mg/kg	99
31) 22dichloropr	6.34	77	313703	0.9855 mg/kg	99
32) c12dichlorte	6.35	96	290762	0.9349 mg/kg	99
33) 2Butanone	6.37	72	464670	8.6773 mg/kg	99
34) propionitrile	6.44	54	545240	8.8664 mg/kg	98
35) Ethylacetate	6.47	88	71033	4.9116 mg/kg	94
36) methacrylonitrile	6.63	67	295423	1.8836 mg/kg	98
37) Bromochlorma	6.65	128	133572	0.8517 mg/kg	98
38) Tetrahydofur	6.71	42	1275030	8.6485 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS5.D Vial: 8
Acq On : 21 Sep 2016 22:06 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:20 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:12 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	474333	0.9211 mg/kg	97
40)	111trichlota	6.98	97	391012	0.9944 mg/kg	99
42)	Cyclohexane	7.04	56	445046	0.9762 mg/kg	98
43)	Carbtetraclo	7.18	119	268953	1.2385 mg/kg	97
44)	11dicloprope	7.18	110	133709	1.0759 mg/kg	93
46)	Benzene	7.43	78	1088976	0.9499 mg/kg	98
47)	12dichlorota	7.45	62	372087	0.8996 mg/kg	98
48)	TAME	7.59	73	687574	1.0154 mg/kg	99
49)	trichloroete	8.25	95	283937	0.8656 mg/kg	97
50)	methylcyclohexane	8.48	83	463451	1.0006 mg/kg	99
51)	12dicloropra	8.51	63	281519	0.9952 mg/kg	89
52)	23dicl1propene	8.58	75	405189	1.0020 mg/kg	98
53)	Dibromometha	8.67	93	175485	1.0060 mg/kg	99
54)	methylmethacrylate	8.68	69	224018	1.0375 mg/kg	98
55)	14dioxane	8.70	88	78362	44.8922 mg/kg	97
56)	Bromodiclrma	8.86	83	315571	1.0283 mg/kg	92
57)	2Nitropropane	9.15	43	626785	12.3745 mg/kg	97
58)	2CLEVE	9.25	63	568835	5.4480 mg/kg	100
59)	c13dicloproe	9.44	75	382352	1.0613 mg/kg	100
60)	4Meth2Pentan	9.64	43	3860919	8.8921 mg/kg	98
62)	Toluene	9.88	92	654618	0.9284 mg/kg	98
63)	t13Dicloprop	10.16	75	317599	1.1991 mg/kg	98
64)	ethylmethacrylate	10.29	69	754901	2.2879 mg/kg	99
65)	112Triclotha	10.40	83	201948	0.8981 mg/kg	99
66)	Tetrachlorte	10.61	166	349285	0.9857 mg/kg	97
67)	13Diclorpropa	10.63	76	409684	0.9476 mg/kg	99
69)	2Hexanone	10.74	43	2956081	9.2564 mg/kg	98
70)	Clorodibrmta	10.92	129	234759	1.1535 mg/kg	96
71)	12Dibrometha	11.08	107	267164	1.0760 mg/kg	98
72)	Chlorobenzen	11.76	112	725148	0.9530 mg/kg	99
73)	1Clhexane	11.72	91	378671	0.9385 mg/kg	99
74)	1112Tetclota	11.87	131	226855	1.1229 mg/kg	97
75)	Ethylbenzene	11.91	91	1263913	0.9863 mg/kg	100
76)	m p-Xylene	12.07	106	960994	1.9822 mg/kg	100
77)	o-Xylene	12.62	106	463478	1.0097 mg/kg	99
78)	Styrene	12.64	104	762255	1.0399 mg/kg	99
79)	Bromoform	12.89	173	168761	1.1963 mg/kg	100
80)	Isopropylben	13.14	105	1153650	1.0122 mg/kg	98
82)	cyclohexanone	13.27	55	160020	18.3662 mg/kg	95
84)	Bromobenzene	13.57	156	359969	0.9636 mg/kg	99
85)	1122Tetrclta	13.56	83	353411	0.9919 mg/kg	97
86)	123Triclproa	13.62	75	409626	0.9749 mg/kg	92
87)	14dichloro2butene	13.64	53	76995	1.0519 mg/kg	92
88)	n-Propylbenz	13.73	91	1451407	0.9793 mg/kg	99
89)	2chlorotolue	13.85	91	834109	0.9217 mg/kg	99
90)	4chlorotolue	14.01	91	970838	0.9748 mg/kg	100
91)	135Trimebenz	13.99	105	1022447	0.9904 mg/kg	99
92)	tbutylbenzen	14.46	119	879700	0.9981 mg/kg	99
93)	124Trimetben	14.53	105	994659	0.9888 mg/kg	96
94)	sbutylbenzen	14.78	105	1338360	1.0030 mg/kg	98
95)	13Diclorbenz	14.93	146	606884	0.9477 mg/kg	99
96)	pIsopropylto	14.99	119	1098330	1.0120 mg/kg	99
97)	14dichlorobe	15.06	146	605228	0.9434 mg/kg	99
98)	12dichlorobe	15.60	146	581680	0.9347 mg/kg	99
99)	nButylbenzen	15.59	91	1006602	1.0197 mg/kg	99
100)	12dibromo3cl	16.72	157	73506	1.2210 mg/kg	94
101)	135Trichlorobenzene	17.01	180	507117	0.9936 mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS5.D Vial: 8
Acq On : 21 Sep 2016 22:06 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:20 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:12 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	421879	1.0130 mg/kg	97
103) Hexachlorobu	18.05	225	250177	1.0110 mg/kg	98
104) Naphthalene	18.13	128	959027	1.0366 mg/kg	99
105) 123Trichlben	18.44	180	391417	0.9607 mg/kg	100

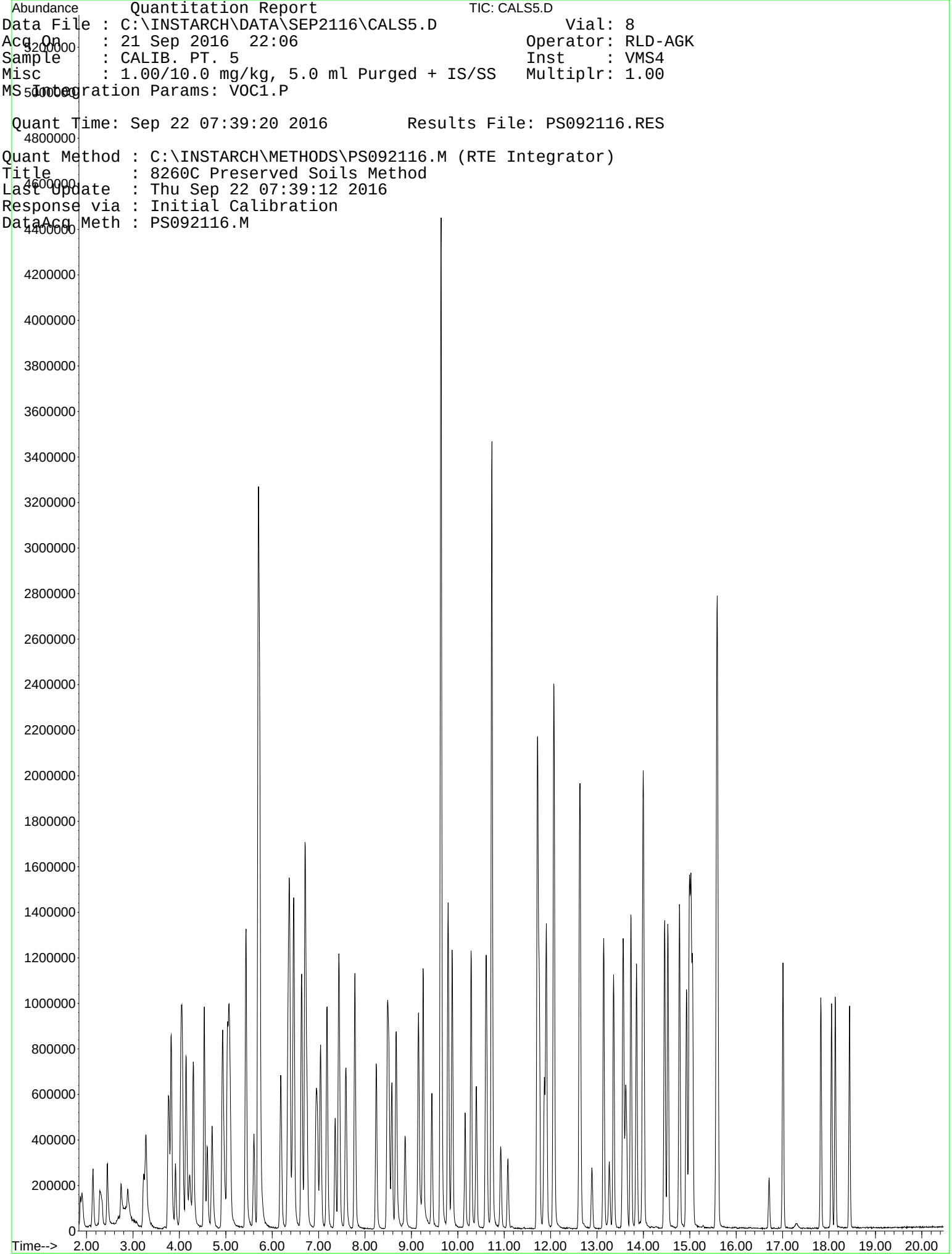
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS5.D Vial: 8
Acq. On : 21 Sep 2016 22:06 Operator: RLD-AGK
Sample : CALIB. PT. 5 Inst : VMS4
Misc : 1.00/10.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:20 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:12 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS6.D Vial: 9
Acq On : 21 Sep 2016 22:35 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:36 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:28 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1273839	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	968235	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	541753	1.00	mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	325658	1.034	mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery = 103 %			
45) SURR12DCAd4	7.36	102	77549	0.962	mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery = 96 %			
61) SURRd8Tolule	9.79	98	1217337	0.994	mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery = 99 %			
83) SURR4BrFBenz	13.36	95	445364	0.994	mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery = 99 %			

Target Compounds

						Qvalue
2) Dichlorodi	1.90	85	460366	1.3310	mg/kg	99
3) Chloromethan	2.14	50	527970	1.2668	mg/kg	98
4) VinylChlorid	2.29	62	510105	1.3583	mg/kg	97
5) Bromomethane	2.74	94	156715	0.9514	mg/kg	96
6) Chloroethane	2.89	64	194795	1.3625	mg/kg	92
7) dichloroflmethane	3.23	67	734647	1.3216	mg/kg	98
8) Trichlorofma	3.28	101	620271	1.3400	mg/kg	100
9) Ethylether	3.76	59	346938	1.5888	mg/kg	98
10) dichlorotfluoroethan	3.77	67	436172	1.3419	mg/kg	96
11) propyleneoxide	3.82	58	1089998	14.7636	mg/kg	98
12) Acrolein	3.92	56	437128	6.9343	mg/kg	98
13) 11dichlorthe	4.03	96	371278	1.4135	mg/kg	98
14) Trichlorotfluoroeth	4.06	101	747448	2.7629	mg/kg	100
15) Acetone	4.14	43	2116001	12.7996	mg/kg	98
16) Iodomethane	4.22	142	718013	4.3278	mg/kg	99
17) Carbon Dislf	4.30	76	1876205	2.9220	mg/kg	100
18) allylchloride	4.54	41	1155100	2.8433	mg/kg	98
19) methylacetate	4.60	74	187459	1.2994	mg/kg	99
20) Methylchlorid	4.71	84	406080	0.9763	mg/kg	100
21) Acrylonitrile	5.04	53	1133314	7.0174	mg/kg	98
22) t12dichlorte	5.07	96	407682	1.4024	mg/kg	97
23) tbutylalcohol	4.93	59	2445353	77.6066	mg/kg	95
24) MtBE	5.09	73	1112367	1.4048	mg/kg	99
25) Hexane	5.44	57	1098036	2.7947	mg/kg	99
26) 11dichlorota	5.61	63	709202	1.3885	mg/kg	99
27) Vinylacetate	5.70	43	7725942	16.7615	mg/kg	97
28) chloroprene	5.73	53	1333754	2.8378	mg/kg	99
29) Diisopether	5.73	45	1373211	1.4460	mg/kg#	86
30) ETBE	6.18	59	1117091	1.5113	mg/kg	99
31) 22dichloropr	6.34	77	487509	1.5082	mg/kg	100
32) c12dichlorte	6.35	96	445498	1.4250	mg/kg	98
33) 2Butanone	6.37	72	743942	14.0117	mg/kg	97
34) propionitrile	6.44	54	851499	13.9113	mg/kg	99
35) Ethylacetate	6.46	88	111579	7.6024	mg/kg	94
36) methacrylonitrile	6.63	67	460256	2.9154	mg/kg	99
37) Bromochlorma	6.64	128	202356	1.3056	mg/kg	96
38) Tetrahydofur	6.71	42	1999653	13.6881	mg/kg	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS6.D Vial: 9
Acq On : 21 Sep 2016 22:35 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:36 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:28 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	718317	1.3916 mg/kg	97
40)	111trichlota	6.98	97	612442	1.5311 mg/kg	98
42)	Cyclohexane	7.04	56	664063	1.4371 mg/kg	98
43)	Carbtetraclo	7.18	119	428341	1.8486 mg/kg	97
44)	11dicloprope	7.18	110	197295	1.5355 mg/kg	94
46)	Benzene	7.43	78	1628370	1.4089 mg/kg	98
47)	12dichlorota	7.45	62	568390	1.3769 mg/kg	99
48)	TAME	7.58	73	1079398	1.5603 mg/kg	97
49)	trichloroete	8.24	95	434310	1.3360 mg/kg	99
50)	methylcyclohexane	8.48	83	697291	1.4780 mg/kg	96
51)	12dicloropra	8.52	63	428932	1.4903 mg/kg	99
52)	23dicl1propene	8.58	75	649781	1.5771 mg/kg	99
53)	Dibromometha	8.67	93	272039	1.5294 mg/kg	98
54)	methylmethacrylate	8.67	69	355250	1.6035 mg/kg	99
55)	14dioxane	8.70	88	126249	72.4979 mg/kg	94
56)	Bromodiclrma	8.87	83	506220	1.6106 mg/kg	93
57)	2Nitropropane	9.15	43	1126249	20.8430 mg/kg	98
58)	2CLEVE	9.25	63	880905	8.1383 mg/kg	99
59)	c13dicloproe	9.44	75	609865	1.6420 mg/kg	98
60)	4Meth2Pentan	9.63	43	5702411	13.1877 mg/kg	95
62)	Toluene	9.88	92	1002130	1.4158 mg/kg	99
63)	t13Dicloprop	10.16	75	509443	1.8163 mg/kg	98
64)	ethylmethacrylate	10.29	69	1200060	3.4713 mg/kg	99
65)	112Triclotha	10.39	83	317797	1.4165 mg/kg	99
66)	Tetrachlorte	10.61	166	534121	1.4843 mg/kg	98
67)	13Diclorpropa	10.62	76	616999	1.4162 mg/kg	98
69)	2Hexanone	10.74	43	4487756	13.8937 mg/kg	97
70)	Clorodibrmta	10.92	129	388597	1.8043 mg/kg	98
71)	12Dibrometha	11.08	107	420576	1.6251 mg/kg	97
72)	Chlorobenzen	11.76	112	1083033	1.3995 mg/kg	100
73)	1Clhexane	11.72	91	574129	1.4032 mg/kg	97
74)	1112Tetclota	11.87	131	371392	1.7475 mg/kg	95
75)	Ethylbenzene	11.90	91	1916301	1.4605 mg/kg	99
76)	m p-Xylene	12.07	106	1471190	2.9610 mg/kg	98
77)	o-Xylene	12.62	106	708811	1.5011 mg/kg	98
78)	Styrene	12.64	104	1171307	1.5441 mg/kg	99
79)	Bromoform	12.89	173	296073	1.9669 mg/kg	98
80)	Isopropylben	13.14	105	1766134	1.5057 mg/kg	98
82)	cyclohexanone	13.27	55	251582	28.8339 mg/kg	94
84)	Bromobenzene	13.57	156	558331	1.4788 mg/kg	99
85)	1122Tetrclta	13.56	83	561324	1.5500 mg/kg	100
86)	123Triclproa	13.62	75	649007	1.5248 mg/kg	92
87)	14dichloro2butene	13.64	53	131511	1.7467 mg/kg	89
88)	n-Propylbenz	13.73	91	2199524	1.4638 mg/kg	100
89)	2chlorotolue	13.85	91	1291419	1.4240 mg/kg	98
90)	4chlorotolue	14.01	91	1485870	1.4728 mg/kg	99
91)	135Trimebenz	13.99	105	1555133	1.4825 mg/kg	99
92)	tbutylbenzen	14.46	119	1340377	1.4944 mg/kg	99
93)	124Trimetben	14.53	105	1545126	1.5122 mg/kg	97
94)	sbutylbenzen	14.77	105	2028649	1.4925 mg/kg	99
95)	13Diclorbenz	14.93	146	943281	1.4622 mg/kg	98
96)	pIsopropylto	14.99	119	1682983	1.5195 mg/kg	99
97)	14dichlorobe	15.06	146	941456	1.4580 mg/kg	98
98)	12dichlorobe	15.60	146	870198	1.3917 mg/kg	99
99)	nButylbenzen	15.59	91	1525231	1.5118 mg/kg	99
100)	12dibromo3cl	16.71	157	126805	1.9606 mg/kg	96
101)	135Trichlorobenzene	17.01	180	776158	1.4957 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS6.D Vial: 9
Acq On : 21 Sep 2016 22:35 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:36 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:28 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	663157	1.5600 mg/kg	99
103) Hexachlorobu	18.05	225	379742	1.5040 mg/kg	97
104) Naphthalene	18.13	128	1518293	1.6003 mg/kg	99
105) 123Trichlben	18.44	180	622760	1.5133 mg/kg	100

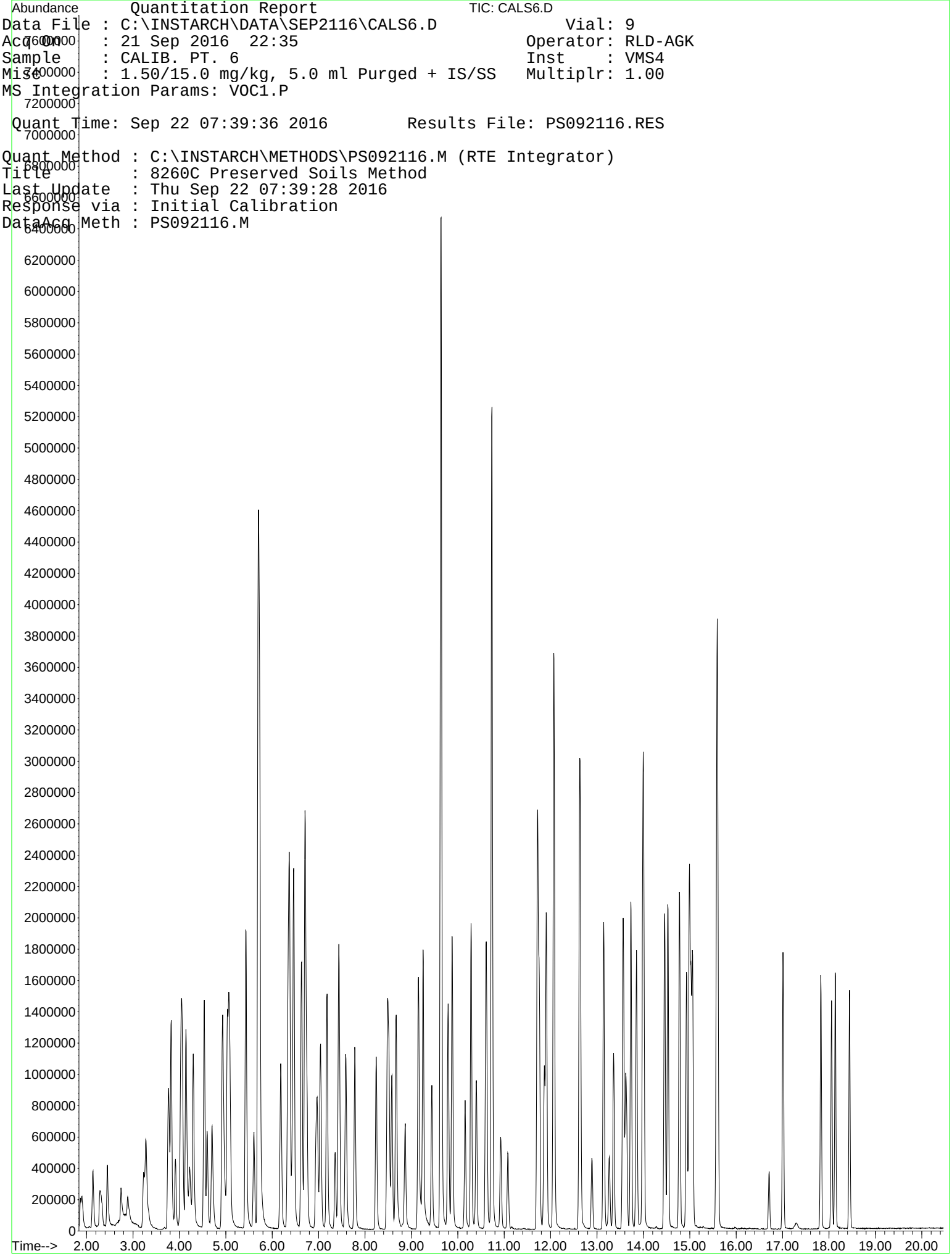
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS6.D Vial: 9
Acq On : 21 Sep 2016 22:35 Operator: RLD-AGK
Sample : CALIB. PT. 6 Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:36 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:28 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS7.D Vial: 10
Acq On : 21 Sep 2016 23:03 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:52 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:44 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1322644	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1011615	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	562554	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.94	113	340434	1.035 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery	= 103 %	
45) SURR12DCAd4	7.36	102	83060	0.999 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery	= 100 %	
61) SURRd8Tolule	9.79	98	1258807	0.991 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery	= 99 %	
83) SURR4BrFBenz	13.36	95	473565	1.019 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery	= 102 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.90	85	650212	1.8451 mg/kg	99
3) Chloromethan	2.14	50	725702	1.7216 mg/kg	98
4) VinylChlorid	2.31	62	696424	1.8145 mg/kg	96
5) Bromomethane	2.75	94	212767	1.3248 mg/kg	98
6) Chloroethane	2.89	64	229623	1.5708 mg/kg	95
7) dichloroflmethane	3.23	67	1005174	1.7768 mg/kg	98
8) Trichlorofma	3.28	101	861629	1.8252 mg/kg	100
9) Ethylether	3.75	59	401915	1.7553 mg/kg	89
10) dichlorotfluoroethan	3.77	67	599657	1.8086 mg/kg	95
11) propyleneoxide	3.82	58	1482545	19.3904 mg/kg	98
12) Acrolein	3.92	56	608740	9.4187 mg/kg	99
13) 11dichlorthe	4.03	96	516043	1.9105 mg/kg	98
14) Trichlorotfluoroeth	4.06	101	1042110	3.7595 mg/kg	100
15) Acetone	4.14	43	2603077	15.5449 mg/kg	98
16) Iodomethane	4.22	142	1047761	5.6644 mg/kg	98
17) Carbon Dislf	4.30	76	2579036	3.8852 mg/kg	100
18) allylchloride	4.54	41	1592333	3.8081 mg/kg	99
19) methylacetate	4.60	74	241987	1.6523 mg/kg	99
20) Methylchlorid	4.71	84	551241	1.3553 mg/kg	99
21) Acrylonitrile	5.04	53	1500695	9.0464 mg/kg	97
22) t12dichlorte	5.07	96	545123	1.8258 mg/kg	99
23) tbutylalcohol	4.93	59	3496565	106.2581 mg/kg	93
24) MtBE	5.09	73	1523274	1.8725 mg/kg	99
25) Hexane	5.43	57	1528074	3.7889 mg/kg	100
26) 11dichlorota	5.61	63	969138	1.8503 mg/kg	98
27) Vinylacetate	5.70	43	9886442	20.2608 mg/kg	94
28) chloroprene	5.73	53	1833210	3.7907 mg/kg	99
29) Diisopether	5.73	45	1883162	1.9214 mg/kg	99
30) ETBE	6.18	59	1515852	1.9727 mg/kg	99
31) 22dichloropr	6.34	77	693873	2.0655 mg/kg	99
32) c12dichlorte	6.34	96	606735	1.8849 mg/kg	99
33) 2Butanone	6.37	72	982498	18.0198 mg/kg	98
34) propionitrile	6.44	54	1166696	18.5823 mg/kg	99
35) Ethylacetate	6.46	88	154361	10.1062 mg/kg#	93
36) methacrylonitrile	6.63	67	621575	3.8098 mg/kg	98
37) Bromochlorma	6.64	128	265518	1.6864 mg/kg	100
38) Tetrahydofur	6.71	42	2683272	17.9516 mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS7.D Vial: 10
Acq On : 21 Sep 2016 23:03 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:52 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:44 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	987250	1.8645 mg/kg	97
40)	111trichlota	6.98	97	850706	2.0412 mg/kg	98
42)	Cyclohexane	7.04	56	936458	1.9655 mg/kg	99
43)	Carbtetraclo	7.18	119	622813	2.4921 mg/kg	98
44)	11dicloprope	7.18	110	274314	2.0481 mg/kg	96
46)	Benzene	7.43	78	2221201	1.8698 mg/kg	98
47)	12dichlorota	7.45	62	767965	1.8166 mg/kg	99
48)	TAME	7.58	73	1481558	2.0489 mg/kg	97
49)	trichloroete	8.24	95	581087	1.7535 mg/kg	96
50)	methylcyclohexane	8.48	83	978515	2.0025 mg/kg	97
51)	12dicloropra	8.51	63	585982	1.9630 mg/kg	99
52)	23dicl1propene	8.58	75	860753	1.9950 mg/kg	99
53)	Dibromometha	8.67	93	358897	1.9369 mg/kg	99
54)	methylmethacrylate	8.67	69	488181	2.0981 mg/kg	98
55)	14dioxane	8.70	88	187571	104.3173 mg/kg	95
56)	Bromodiclrma	8.87	83	699975	2.1188 mg/kg	94
57)	2Nitropropane	9.15	43	1637443	27.4060 mg/kg	97
58)	2CLEVE	9.25	63	1270688	11.1481 mg/kg	99
59)	c13dicloproe	9.44	75	836836	2.1363 mg/kg	99
60)	4Meth2Pentan	9.64	43	7235081	16.4460 mg/kg	93
62)	Toluene	9.88	92	1374311	1.8876 mg/kg	96
63)	t13Dicloprop	10.16	75	710382	2.3564 mg/kg	99
64)	ethylmethacrylate	10.29	69	1617826	4.3921 mg/kg	98
65)	112Triclotha	10.40	83	426049	1.8461 mg/kg	98
66)	Tetrachlorte	10.61	166	723512	1.9398 mg/kg	97
67)	13Diclorpropa	10.62	76	836241	1.8660 mg/kg	99
69)	2Hexanone	10.74	43	5764156	17.2927 mg/kg	95
70)	Clorodibrmta	10.92	129	542915	2.3338 mg/kg	97
71)	12Dibrometha	11.08	107	569477	2.0772 mg/kg	97
72)	Chlorobenzen	11.75	112	1482312	1.8540 mg/kg	99
73)	1Clhexane	11.72	91	813213	1.9230 mg/kg	96
74)	1112Tetclota	11.87	131	516089	2.2620 mg/kg	97
75)	Ethylbenzene	11.91	91	2599799	1.9048 mg/kg	99
76)	m p-Xylene	12.07	106	1985302	3.8327 mg/kg	99
77)	o-Xylene	12.62	106	973663	1.9733 mg/kg	97
78)	Styrene	12.64	104	1577307	1.9804 mg/kg	98
79)	Bromoform	12.89	173	410565	2.4818 mg/kg	99
80)	Isopropylben	13.14	105	2409914	1.9652 mg/kg	98
82)	cyclohexanone	13.26	55	367155	40.7881 mg/kg	95
84)	Bromobenzene	13.57	156	739308	1.8902 mg/kg	96
85)	1122Tetrclta	13.56	83	758577	2.0061 mg/kg	97
86)	123Triclproa	13.62	75	893472	2.0160 mg/kg	91
87)	14dichloro2butene	13.64	53	191451	2.3834 mg/kg	87
88)	n-Propylbenz	13.73	91	2969611	1.9109 mg/kg	100
89)	2chlorotolue	13.85	91	1732089	1.8549 mg/kg	99
90)	4chlorotolue	14.00	91	1983809	1.8994 mg/kg	98
91)	135Trimebenz	13.99	105	2119085	1.9492 mg/kg	100
92)	tbutylbenzen	14.46	119	1830843	1.9669 mg/kg	98
93)	124Trimetben	14.53	105	2096261	1.9731 mg/kg	97
94)	sbutylbenzen	14.77	105	2763366	1.9594 mg/kg	98
95)	13Diclorbenz	14.93	146	1266250	1.8982 mg/kg	99
96)	pIsopropylto	14.99	119	2306463	2.0011 mg/kg	99
97)	14dichlorobe	15.06	146	1270607	1.9038 mg/kg	98
98)	12dichlorobe	15.60	146	1186178	1.8492 mg/kg	99
99)	nButylbenzen	15.59	91	2082524	1.9852 mg/kg	98
100)	12dibromo3cl	16.71	157	182196	2.5559 mg/kg	96
101)	135Trichlorobenzene	17.01	180	1064108	1.9757 mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS7.D Vial: 10
Acq On : 21 Sep 2016 23:03 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:52 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:44 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	904310	2.0351 mg/kg	97
103) Hexachlorobu	18.05	225	539013	2.0550 mg/kg	97
104) Naphthalene	18.13	128	2085772	2.0938 mg/kg	99
105) 123Trichlben	18.44	180	827888	1.9345 mg/kg	97

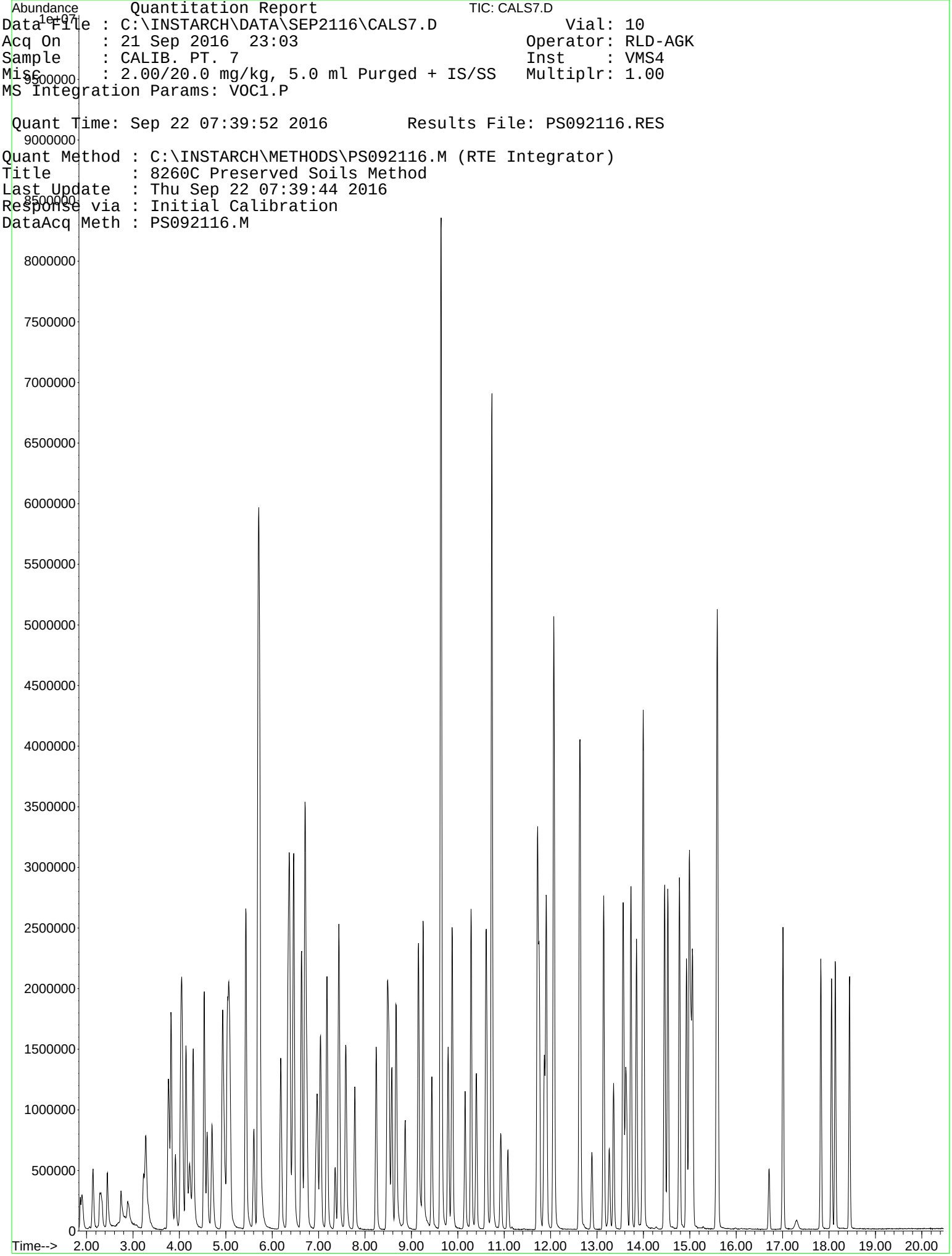
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS7.D Vial: 10
Acq On : 21 Sep 2016 23:03 Operator: RLD-AGK
Sample : CALIB. PT. 7 Inst : VMS4
Misc : 2.00/20.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:39:52 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:39:44 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS8.D Vial: 11
Acq On : 21 Sep 2016 23:32 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:40:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:00 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1332001	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1013813	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	573821	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	338822	1.018 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery	= 102 %	
45) SURR12DCAd4	7.36	102	82620	0.987 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery	= 99 %	
61) SURRd8Tolule	9.79	98	1267436	0.992 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery	= 99 %	
83) SURR4BrFBenz	13.36	95	473651	0.996 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery	= 100 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.90	85	1281480	3.6513 mg/kg	99
3) Chloromethan	2.13	50	1481167	3.5599 mg/kg	98
4) VinylChlorid	2.31	62	1392995	3.6523 mg/kg	97
5) Bromomethane	2.74	94	452010	2.9363 mg/kg	96
6) Chloroethane	2.89	64	409772	2.8715 mg/kg	94
7) dichloroflmethane	3.23	67	2009184	3.5837 mg/kg	99
8) Trichlorofma	3.27	101	1739727	3.7057 mg/kg	99
9) Ethylether	3.76	59	975324	4.3049 mg/kg	96
10) dichlorotfluoroethan	3.78	67	1196808	3.6339 mg/kg	96
11) propyleneoxide	3.82	58	3050806	39.7949 mg/kg	96
12) Acrolein	3.92	56	1373271	21.2753 mg/kg	97
13) 11dichlorthe	4.03	96	1045043	3.8665 mg/kg	98
14) Trichlorotfluoroeth	4.05	101	2070153	7.4801 mg/kg	98
15) Acetone	4.15	43	5547466	33.9766 mg/kg	96
16) Iodomethane	4.22	142	2216508	11.2311 mg/kg	99
17) Carbon Dislf	4.29	76	5147612	7.7318 mg/kg	99
18) allylchloride	4.54	41	3152381	7.5377 mg/kg	99
19) methylacetate	4.60	74	509803	3.5446 mg/kg	98
20) Methylchlorid	4.71	84	1127441	2.8854 mg/kg	99
21) Acrylonitrile	5.03	53	3092122	18.7644 mg/kg	97
22) t12dichlorte	5.06	96	1107907	3.7311 mg/kg	99
23) tbutylalcohol	4.94	59	7483906	223.8317 mg/kg	92
24) MtBE	5.09	73	3177980	3.9149 mg/kg	98
25) Hexane	5.43	57	3063976	7.6011 mg/kg	99
26) 11dichlorota	5.61	63	1955279	3.7470 mg/kg	99
27) Vinylacetate	5.70	43	14937744	30.3411 mg/kg	85
28) chloroprene	5.73	53	3474996	7.1889 mg/kg	98
29) Diisopether	5.73	45	3665322	3.7344 mg/kg#	62
30) ETBE	6.18	59	3120188	4.0399 mg/kg	99
31) 22dichloropr	6.34	77	1460759	4.2978 mg/kg	99
32) c12dichlorte	6.34	96	1216953	3.7851 mg/kg	100
33) 2Butanone	6.38	72	2041687	37.7166 mg/kg	96
34) propionitrile	6.45	54	2391033	38.2020 mg/kg	98
35) Ethylacetate	6.47	88	316917	20.5720 mg/kg#	94
36) methacrylonitrile	6.63	67	1278860	7.8367 mg/kg	99
37) Bromochlorma	6.64	128	543458	3.5059 mg/kg	97
38) Tetrahydofur	6.71	42	5258916	35.4547 mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS8.D Vial: 11
Acq On : 21 Sep 2016 23:32 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:40:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:00 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.74	83	1989784	3.7679	mg/kg	97
40)	111trichlota	6.98	97	1761869	4.1855	mg/kg	99
42)	Cyclohexane	7.04	56	1866244	3.8991	mg/kg	96
43)	Carbtetraclo	7.18	119	1356353	5.2062	mg/kg	99
44)	11dicloprope	7.18	110	567818	4.1952	mg/kg	94
46)	Benzene	7.43	78	4378472	3.6943	mg/kg	97
47)	12dichlorota	7.45	62	1586853	3.7768	mg/kg	99
48)	TAME	7.58	73	3129817	4.2830	mg/kg	95
49)	trichloroete	8.24	95	1197723	3.6532	mg/kg	98
50)	methylcyclohexane	8.48	83	1995720	4.0548	mg/kg	97
51)	12dicloropra	8.51	63	1198250	3.9963	mg/kg	99
52)	23dicl1propene	8.58	75	1816552	4.1823	mg/kg	97
53)	Dibromometha	8.67	93	758042	4.0807	mg/kg	100
54)	methylmethacrylate	8.67	69	1055113	4.4714	mg/kg	99
55)	14dioxane	8.71	88	460524	252.7615	mg/kg	97
56)	Bromodiclrma	8.87	83	1508802	4.4968	mg/kg	92
57)	2Nitropropane	9.15	43	3926801	61.9826	mg/kg	97
58)	2CLEVE	9.25	63	2774038	23.7764	mg/kg	99
59)	c13dicloproe	9.44	75	1810013	4.5440	mg/kg	99
60)	4Meth2Pentan	9.64	43	11561586	26.7756	mg/kg	80
62)	Toluene	9.88	92	2734493	3.7596	mg/kg	94
63)	t13Dicloprop	10.16	75	1561661	5.0161	mg/kg	98
64)	ethylmethacrylate	10.29	69	3347900	8.9004	mg/kg	98
65)	112Triclotha	10.40	83	894052	3.8895	mg/kg	98
66)	Tetrachlorte	10.61	166	1473547	3.9400	mg/kg	96
67)	13Diclorpropa	10.62	76	1746126	3.9063	mg/kg	99
69)	2Hexanone	10.74	43	9690012	29.5794	mg/kg	85
70)	Clorodibrmta	10.92	129	1202953	5.0398	mg/kg	97
71)	12Dibrometha	11.08	107	1195272	4.3265	mg/kg	97
72)	Chlorobenzen	11.76	112	2996744	3.7795	mg/kg	99
73)	1Clhexane	11.72	91	1669532	3.9612	mg/kg	95
74)	1112Tetclota	11.87	131	1132661	4.8627	mg/kg	97
75)	Ethylbenzene	11.91	91	5070364	3.7323	mg/kg	96
76)	m p-Xylene	12.07	106	3940509	7.6364	mg/kg	91
77)	o-Xylene	12.62	106	1969344	3.9903	mg/kg	94
78)	Styrene	12.64	104	3232819	4.0559	mg/kg	97
79)	Bromoform	12.89	173	983759	5.7364	mg/kg	99
80)	Isopropylben	13.14	105	4718272	3.8488	mg/kg	96
82)	cyclohexanone	13.27	55	841047	91.3421	mg/kg	93
84)	Bromobenzene	13.57	156	1549076	3.9135	mg/kg	95
85)	1122Tetrclta	13.56	83	1603490	4.1554	mg/kg	98
86)	123Triclproa	13.62	75	1941116	4.2890	mg/kg	89
87)	14dichloro2butene	13.64	53	433451	5.1492	mg/kg	79
88)	n-Propylbenz	13.73	91	5734443	3.6407	mg/kg	96
89)	2chlorotolue	13.85	91	3528394	3.7432	mg/kg	99
90)	4chlorotolue	14.01	91	4044378	3.8238	mg/kg	97
91)	135Trimebenz	13.99	105	4274547	3.8688	mg/kg	98
92)	tbutylbenzen	14.46	119	3694710	3.9006	mg/kg	97
93)	124Trimetben	14.53	105	4226073	3.9071	mg/kg	95
94)	sbutylbenzen	14.77	105	5400117	3.7648	mg/kg	95
95)	13Diclorbenz	14.93	146	2625324	3.8866	mg/kg	99
96)	pIsopropylto	14.99	119	4581214	3.8963	mg/kg	96
97)	14dichlorobe	15.06	146	2646621	3.9146	mg/kg	99
98)	12dichlorobe	15.60	146	2451835	3.7880	mg/kg	99
99)	nButylbenzen	15.59	91	4185325	3.9155	mg/kg	95
100)	12dibromo3cl	16.71	157	432614	5.6863	mg/kg	99
101)	135Trichlorobenzene	17.01	180	2226130	4.0592	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS8.D Vial: 11
Acq On : 21 Sep 2016 23:32 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:40:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:00 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	1913127	4.2103 mg/kg	98
103) Hexachlorobu	18.05	225	1155827	4.3031 mg/kg	97
104) Naphthalene	18.14	128	4199742	4.1056 mg/kg	97
105) 123Trichlben	18.44	180	1778488	4.0934 mg/kg	99

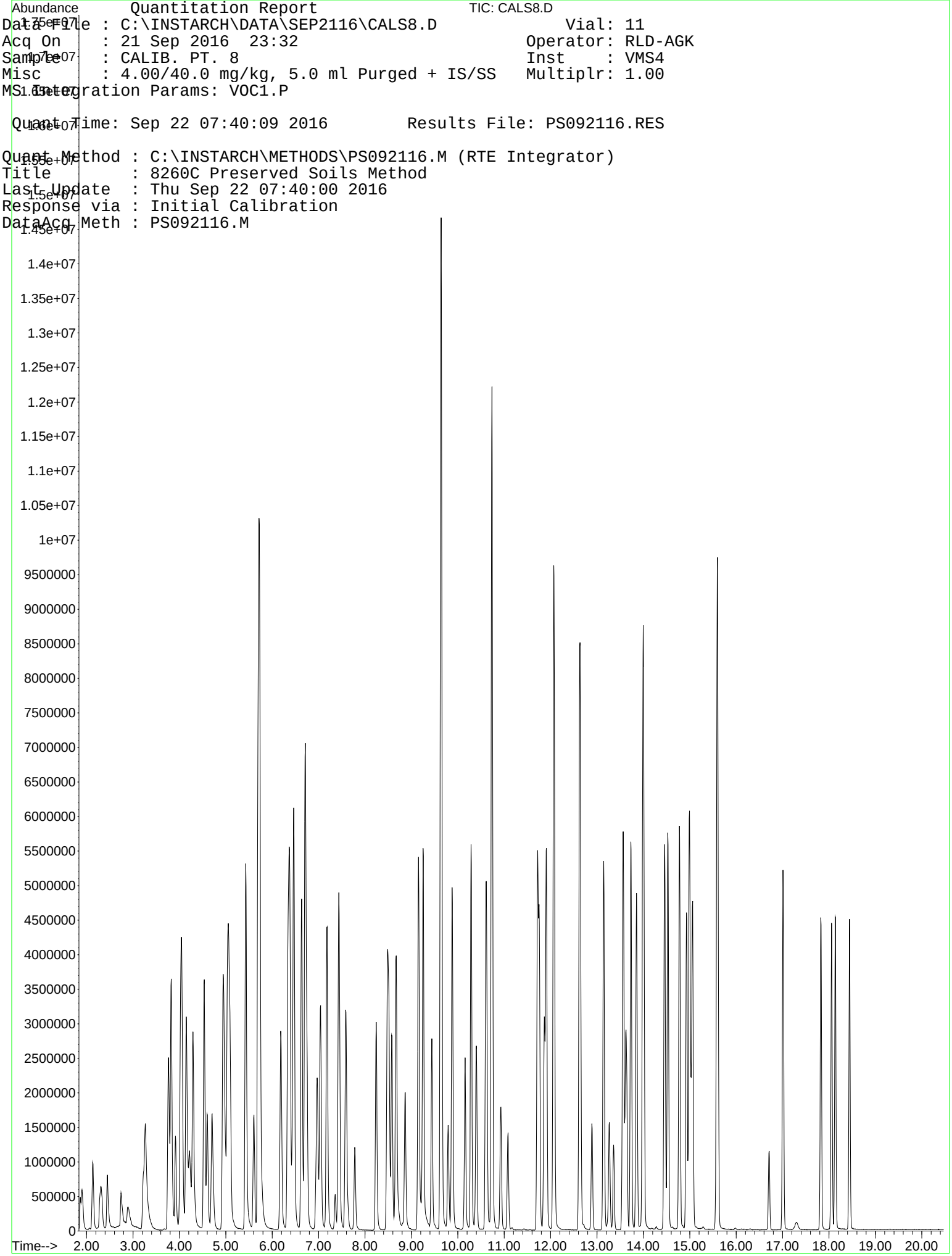
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\SEP2116\CALS8.D Vial: 11
Acq On : 21 Sep 2016 23:32 Operator: RLD-AGK
Sample : CALIB. PT. 8 Inst : VMS4
Misc : 4.00/40.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 07:40:09 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:40:00 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\SEP2116\ICV1.D Vial: 13
Acq On : 22 Sep 2016 00:28 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Sep 22 08:03:19 2016

Quant Method : C:\INSTARCH\METHODS\PS092116.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS092116.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	106	0.00
2	T	Dichlorodi	0.2606	0.2522	3.22	106	0.00
3	PT	Chloromethan	0.2962	0.2980	-0.61	114	0.00
4	CT	VinylChlorid	0.2832	0.2681	5.33	104	0.00
5	T	Bromomethane	0.0888	0.1016	-14.41	131	0.00
6	T	Chloroethane	0.0962	0.0890	7.48	103	0.00
7	T	dichloroflmethane	0.4154	0.3919	5.66	104	0.00
8	T	Trichlorofma	0.3492	0.3348	4.12	107	0.00
9	T	Ethylether	0.1717	0.1925	-12.11	121	0.00
10	T	dichlorotfluoroethan	0.2444	0.2290	6.30	102	0.00
11	T	propyleneoxide	0.0575	0.0577	-0.35	111	0.00
12	T	Acrolein	0.0471	0.0552	-17.20	141	0.00
13	CT	11dichlorthe	0.2021	0.1997	1.19	107	0.00
14	T	Trichlorotfluoroeth	0.2061	0.1963	4.75	103	0.00
15	T	Acetone	0.1118	0.1188	-6.26	106	0.00
16	T	Iodomethane	0.1556	0.1407	9.58	124	0.00
17	T	Carbon Dislf	0.4977	0.4957	0.40	110	0.00
18	T	allylchloride	0.3117	0.3064	1.70	108	0.00
19	T	methylacetate	0.1000	0.1139	-13.90	112	0.00
20	T	Methylchlorid	0.2652	0.2329	12.18	112	0.00
21	T	Acrylonitrile	0.1228	0.1183	3.66	103	0.00
22	T	t12dichlorte	0.2211	0.2090	5.47	107	0.00
23	T	tbutylalcohol	0.0255	0.0263	-3.14	113	0.00
24	T	MtBE	0.6078	0.6246	-2.76	117	0.00
25	T	Hexane	0.3007	0.2878	4.29	105	0.00
26	PT	11dichlorota	0.3887	0.3713	4.48	104	0.00
27	T	Vinylacetate	0.3588	0.4194	-16.89	119	0.00
28	T	chloroprene	0.3583	0.3565	0.50	106	0.00
29	T	Diisopether	0.7307	0.7586	-3.82	112	0.00
30	T	ETBE	0.5806	0.6013	-3.57	116	0.00
31	T	22dichloropr	0.2575	0.2460	4.47	111	0.00
32	T	c12dichlorte	0.2398	0.2355	1.79	110	0.00
33	T	2Butanone	0.0403	0.0394	2.23	105	0.00
34	T	propionitrile	0.0467	0.0458	1.93	106	0.00
35	T	Ethylacetate	0.0116	0.0117	-0.86	111	0.00
36	T	methacrylonitrile	0.1222	0.1214	0.65	109	0.00
37	T	Bromochlorma	0.1111	0.1099	1.08	112	0.00
38	T	Tetrahydofur	0.1098	0.1069	2.64	107	0.00
39	CT	Chloroform	0.3936	0.3834	2.59	112	0.00
40	T	111trichlota	0.3179	0.3156	0.72	114	0.00
41	S	SURRDibrflma	0.2504	0.2596	-3.67	110	0.00
42	T	Cyclohexane	0.3582	0.3536	1.28	106	0.00
43	T	Carbtetraclo	0.2063	0.2089	-1.26	120	0.00
44	T	11dicloprope	0.1022	0.1048	-2.54	113	0.00
45	S	SURR12DCAd4	0.0628	0.0610	2.87	101	0.00
46	T	Benzene	0.8813	0.8782	0.35	108	0.00
47	T	12dichlorota	0.3132	0.3100	1.02	110	0.00
48	T	TAME	0.5535	0.5784	-4.50	115	0.00

49	T	trichloroete	0.2435	0.2291	5.91	105	0.00
50	T	methylcyclohexane	0.3701	0.3690	0.30	111	0.00
51	CT	12dicloropra	0.2251	0.2301	-2.22	113	0.00
52	T	23dicl1propene	0.3279	0.3447	-5.12	119	0.00
53	T	Dibromometha	0.1398	0.1430	-2.29	111	0.00
54	T	methylmethacrylate	0.1798	0.1882	-4.67	121	0.00
55	T	14dioxane	0.0014	0.0012#	14.29	87	0.00
56	T	Bromodiclrma	0.2558	0.2563	-0.20	110	0.00
57	T	2Nitropropane	0.0514	0.0451	12.26	111	0.00
58		2CLEVE	0.0897	0.0998	-11.26	121	0.00
59	T	c13dicloproe	0.3041	0.3151	-3.62	116	0.00
60	T	4Meth2Pentan	0.3242	0.3305	-1.94	107	0.00
61	S	SURRd8Tolule	0.9585	0.9564	0.22	105	0.00
62	CT	Toluene	0.5419	0.5223	3.62	107	0.00
63	T	t13Dicloprop	0.2412	0.2514	-4.23	120	0.00
64	T	ethylmethacrylate	0.2864	0.3048	-6.42	115	0.00
65	T	112Triclotha	0.1720	0.1696	1.40	111	0.00
66	T	Tetrachlorte	0.2803	0.2818	-0.54	107	0.00
67	T	13Diclorpropa	0.3346	0.3405	-1.76	111	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	108	0.00
69	T	2Hexanone	0.3231	0.3256	-0.77	107	0.00
70	T	Clorodibrmta	0.2431	0.2461	-1.23	119	0.00
71	T	12Dibrometha	0.2752	0.2896	-5.23	118	0.00
72	PT	Chlorobenzen	0.7766	0.7461	3.93	106	0.00
73	T	1Clhexane	0.4151	0.3843	7.42	106	0.00
74	T	1112Tetclota	0.2359	0.2347	0.51	125	0.00
75	CT	Ethylbenzene	1.3286	1.3192	0.71	109	0.00
76	T	m p-Xylene	0.5060	0.5004	1.11	109	0.00
77	T	o-Xylene	0.4866	0.4878	-0.25	111	0.00
78	T	Styrene	0.7875	0.8029	-1.96	110	0.00
79	PT	Bromoform	0.1783	0.1740	2.41	122	0.00
80	T	Isopropylben	1.2033	1.1870	1.35	109	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	107	0.00
82	T	cyclohexanone	0.0163	0.0173	-6.13	109	0.00
83	S	SURR4BrFBenz	0.8283	0.8393	-1.33	110	0.00
84	T	Bromobenzene	0.6879	0.6872	0.10	109	0.00
85	PT	1122Tetrclta	0.6757	0.6900	-2.12	112	0.00
86	T	123Triclproa	0.7958	0.8025	-0.84	126	0.00
87	T	14dichloro2butene	0.1520	0.1362	10.39	108	0.00
88	T	n-Propylbenz	2.7141	2.7088	0.20	107	0.00
89	T	2chlorotolue	1.6295	1.6194	0.62	111	0.00
90	T	4chlorotolue	1.8331	1.8472	-0.77	109	0.00
91	T	135Trimebenz	1.9176	1.9431	-1.33	110	0.00
92	T	tbutylbenzen	1.6456	1.6381	0.46	108	0.00
93	T	124Trimetben	1.8795	1.9565	-4.10	111	0.00
94	T	sbutylbenzen	2.4813	2.4875	-0.25	108	0.00
95	T	13Diclorbenz	1.1730	1.1780	-0.43	110	0.00
96	T	pIsopropylto	2.0424	2.0856	-2.12	110	0.00
97	T	14dichlorobe	1.1751	1.1551	1.70	108	0.00
98	T	12dichlorobe	1.1205	1.1285	-0.71	110	0.00
99	T	nButylbenzen	1.8579	1.8407	0.93	107	0.00
100	T	12dibromo3cl	0.1407	0.1462	-3.91	127	0.00
101	T	135Trichlorobenzene	0.9575	0.9840	-2.77	115	0.00
102	T	124Trichlobe	0.7971	0.8263	-3.66	113	0.00
103	T	Hexachlorobu	0.4725	0.4936	-4.47	113	0.00
104	T	Naphthalene	1.7885	1.9124	-6.93	115	0.00
105	T	123Trichlben	0.7594	0.7592	0.03	111	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS092116.M Mon Sep 26 14:37:10 2016

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\SEP2116\ICV1.D Vial: 13
Acq On : 22 Sep 2016 00:28 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Sep 22 08:03:19 2016

Quant Method : C:\INSTARCH\METHODS\PS092116.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS092116.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	106	0.00
2	T	Dichlorodi	0.5000	0.4839	3.22	106	0.00
3	PT	Chloromethan	0.5000	0.5031	-0.62	114	0.00
4	CT	VinylChlorid	0.5000	0.4732	5.36	104	0.00
5	T	Bromomethane	0.5000	0.5721	-14.42	131	0.00
6	T	Chloroethane	0.5000	0.4624	7.52	103	0.00
7	T	dichloroflmethane	0.5000	0.4717	5.66	104	0.00
8	T	Trichlorofma	0.5000	0.4794	4.12	107	0.00
9	T	Ethylether	0.5000	0.5606	-12.12	121	0.00
10	T	dichlorotfluoroethan	0.5000	0.4684	6.32	102	0.00
11	T	propyleneoxide	5.0000	5.0143	-0.29	111	0.00
12	T	Acrolein	2.5000	2.9322	-17.29	141	0.00
13	CT	11dichlorthe	0.5000	0.4942	1.16	107	0.00
14	T	Trichlorotfluoroeth	1.0000	0.9523	4.77	103	0.00
15	T	Acetone	5.0000	5.3124	-6.25	106	0.00
16	T	Iodomethane	1.0000	0.8900	11.00	124	0.00
17	T	Carbon Dislf	1.0000	0.9959	0.41	110	0.00
18	T	allylchloride	1.0000	0.9830	1.70	108	0.00
19	T	methylacetate	0.5000	0.5692	-13.84	112	0.00
20	T	Methylchlorid	0.5000	0.5266	-5.32	112	0.00
21	T	Acrylonitrile	2.5000	2.4095	3.62	103	0.00
22	T	t12dichlorte	0.5000	0.4727	5.46	107	0.00
23	T	tbutylalcohol	25.0000	25.8517	-3.41	113	0.00
24	T	MtBE	0.5000	0.5138	-2.76	117	0.00
25	T	Hexane	1.0000	0.9569	4.31	105	0.00
26	PT	11dichlorota	0.5000	0.4777	4.46	104	0.00
27	T	Vinylacetate	5.0000	5.8441	-16.88	119	0.00
28	T	chloroprene	1.0000	0.9950	0.50	106	0.00
29	T	Diisopether	0.5000	0.5191	-3.82	112	0.00
30	T	ETBE	0.5000	0.5178	-3.56	116	0.00
31	T	22dichloropr	0.5000	0.4776	4.48	111	0.00
32	T	c12dichlorte	0.5000	0.4912	1.76	110	0.00
33	T	2Butanone	5.0000	4.8837	2.33	105	0.00
34	T	propionitrile	5.0000	4.8981	2.04	106	0.00
35	T	Ethylacetate	2.5000	2.5235	-0.94	111	0.00
36	T	methacrylonitrile	1.0000	0.9938	0.62	109	0.00
37	T	Bromochlorma	0.5000	0.4949	1.02	112	0.00
38	T	Tetrahydofur	5.0000	4.8697	2.61	107	0.00
39	CT	Chloroform	0.5000	0.4871	2.58	112	0.00
40	T	111trichlota	0.5000	0.4965	0.70	114	0.00
41	S	SURRDibrflma	1.0000	1.0365	-3.65	110	0.00
42	T	Cyclohexane	0.5000	0.4935	1.30	106	0.00
43	T	Carbtetraclo	0.5000	0.5062	-1.24	120	0.00
44	T	11dicloprope	0.5000	0.5124	-2.48	113	0.00
45	S	SURR12DCAd4	1.0000	0.9718	2.82	101	0.00
46	T	Benzene	0.5000	0.4983	0.34	108	0.00
47	T	12dichlorota	0.5000	0.4949	1.02	110	0.00
48	T	TAME	0.5000	0.5225	-4.50	115	0.00

49	T	trichloroete	0.5000	0.4706	5.88	105	0.00
50	T	methylcyclohexane	0.5000	0.4984	0.32	111	0.00
51	CT	12dicloropra	0.5000	0.5111	-2.22	113	0.00
52	T	23dicl1propene	0.5000	0.5256	-5.12	119	0.00
53	T	Dibromometha	0.5000	0.5114	-2.28	111	0.00
54	T	methylmethacrylate	0.5000	0.5234	-4.68	121	0.00
55	T	14dioxane	25.0000	24.1224	3.51	87	0.00
56	T	Bromodiclrma	0.5000	0.5010	-0.20	110	0.00
57	T	2Nitropropane	5.0000	4.7045	5.91	111	0.00
58		2CLEVE	2.5000	2.7820	-11.28	121	0.00
59	T	c13dicloproe	0.5000	0.5181	-3.62	116	0.00
60	T	4Meth2Pentan	5.0000	5.0977	-1.95	107	0.00
61	S	SURRd8Tolule	1.0000	0.9979	0.21	105	0.00
62	CT	Toluene	0.5000	0.4819	3.62	107	0.00
63	T	t13Dicloprop	0.5000	0.5213	-4.26	120	0.00
64	T	ethylmethacrylate	1.0000	1.0645	-6.45	115	0.00
65	T	112Triclotha	0.5000	0.4931	1.38	111	0.00
66	T	Tetrachlorte	0.5000	0.5027	-0.54	107	0.00
67	T	13Diclorpropa	0.5000	0.5088	-1.76	111	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	108	0.00
69	T	2Hexanone	5.0000	5.0384	-0.77	107	0.00
70	T	Clorodibrmta	0.5000	0.5063	-1.26	119	0.00
71	T	12Dibrometha	0.5000	0.5261	-5.22	118	0.00
72	PT	Chlorobenzen	0.5000	0.4804	3.92	106	0.00
73	T	1Clhexane	0.5000	0.4628	7.44	106	0.00
74	T	1112Tetclota	0.5000	0.4974	0.52	125	0.00
75	CT	Ethylbenzene	0.5000	0.4965	0.70	109	0.00
76	T	m p-Xylene	1.0000	0.9889	1.11	109	0.00
77	T	o-Xylene	0.5000	0.5013	-0.26	111	0.00
78	T	Styrene	0.5000	0.5098	-1.96	110	0.00
79	PT	Bromoform	0.5000	0.5105	-2.10	122	0.00
80	T	Isopropylben	0.5000	0.4932	1.36	109	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	107	0.00
82	T	cyclohexanone	10.0000	10.5679	-5.68	109	0.00
83	S	SURR4BrFBenz	1.0000	1.0133	-1.33	110	0.00
84	T	Bromobenzene	0.5000	0.4994	0.12	109	0.00
85	PT	1122Tetrclta	0.5000	0.5105	-2.10	112	0.00
86	T	123Triclproa	0.5000	0.5042	-0.84	126	0.00
87	T	14dichloro2butene	0.5000	0.4480	10.40	108	0.00
88	T	n-Propylbenz	0.5000	0.4990	0.20	107	0.00
89	T	2chlorotolue	0.5000	0.4969	0.62	111	0.00
90	T	4chlorotolue	0.5000	0.5039	-0.78	109	0.00
91	T	135Trimebenz	0.5000	0.5067	-1.34	110	0.00
92	T	tbutylbenzen	0.5000	0.4977	0.46	108	0.00
93	T	124Trimetben	0.5000	0.5205	-4.10	111	0.00
94	T	sbutylbenzen	0.5000	0.5013	-0.26	108	0.00
95	T	13Diclorbenz	0.5000	0.5021	-0.42	110	0.00
96	T	pIsopropylto	0.5000	0.5106	-2.12	110	0.00
97	T	14dichlorobe	0.5000	0.4915	1.70	108	0.00
98	T	12dichlorobe	0.5000	0.5036	-0.72	110	0.00
99	T	nButylbenzen	0.5000	0.4954	0.92	107	0.00
100	T	12dibromo3cl	0.5000	0.5434	-8.68	127	0.00
101	T	135Trichlorobenzene	0.5000	0.5138	-2.76	115	0.00
102	T	124Trichlobe	0.5000	0.5183	-3.66	113	0.00
103	T	Hexachlorobu	0.5000	0.5223	-4.46	113	0.00
104	T	Naphthalene	0.5000	0.5346	-6.92	115	0.00
105	T	123Trichlben	0.5000	0.4999	0.02	111	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS092116.M Mon Sep 26 14:37:27 2016

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV1.D Vial: 13
Acq On : 22 Sep 2016 00:28 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:03:19 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 08:03:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1310741	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1013549	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	554686	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	340245	1.037 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery	= 104 %	
45) SURR12DCAd4	7.36	102	79950	0.972 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery	= 97 %	
61) SURRd8Tolule	9.79	98	1253642	0.998 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery	= 100 %	
83) SURR4BrFBenz	13.36	95	465528	1.013 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery	= 101 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.90	85	165294	0.4839 mg/kg	96
3) Chloromethan	2.14	50	195325	0.5031 mg/kg	97
4) VinylChlorid	2.28	62	175676	0.4732 mg/kg	100
5) Bromomethane	2.74	94	66586	0.5721 mg/kg	91
6) Chloroethane	2.88	64	58335	0.4624 mg/kg	86
7) dichloroflmethane	3.23	67	256870	0.4717 mg/kg	98
8) Trichlorofma	3.28	101	219415	0.4794 mg/kg	100
9) Ethylether	3.76	59	126184	0.5606 mg/kg	97
10) dichlorotfluoroethan	3.77	67	150068	0.4684 mg/kg	95
11) propyleneoxide	3.82	58	378031	5.0143 mg/kg	100
12) Acrolein	3.92	56	181020	2.9322 mg/kg	96
13) 11dichlorthe	4.03	96	130885	0.4942 mg/kg	98
14) Trichlorotfluoroeth	4.06	101	257238	0.9523 mg/kg	96
15) Acetone	4.15	43	778620	5.3124 mg/kg	99
16) Iodomethane	4.22	142	184446	0.8900 mg/kg	98
17) Carbon Dislf	4.30	76	649745	0.9959 mg/kg	100
18) allylchloride	4.53	41	401637	0.9830 mg/kg	99
19) methylacetate	4.61	74	74638	0.5692 mg/kg	96
20) Methylchlorid	4.70	84	152658	0.5266 mg/kg	97
21) Acrylonitrile	5.04	53	387705	2.4095 mg/kg	96
22) t12dichlorte	5.07	96	136951	0.4727 mg/kg	99
23) tbutylalcohol	4.93	59	863234	25.8517 mg/kg	96
24) MtBE	5.08	73	409337	0.5138 mg/kg	98
25) Hexane	5.43	57	377189	0.9569 mg/kg	99
26) 11dichlorota	5.61	63	243357	0.4777 mg/kg	99
27) Vinylacetate	5.70	43	2748475	5.8441 mg/kg	99
28) chloroprene	5.73	53	467291	0.9950 mg/kg	100
29) Diisopether	5.73	45	497159	0.5191 mg/kg#	89
30) ETBE	6.19	59	394064	0.5178 mg/kg	98
31) 22dichloropr	6.34	77	161227	0.4776 mg/kg	98
32) c12dichlorte	6.34	96	154367	0.4912 mg/kg	98
33) 2Butanone	6.37	72	258292	4.8837 mg/kg	97
34) propionitrile	6.44	54	299983	4.8981 mg/kg	99
35) Ethylacetate	6.46	88	38392	2.5235 mg/kg	95
36) methacrylonitrile	6.64	67	159184	0.9938 mg/kg	99
37) Bromochlorma	6.64	128	72055	0.4949 mg/kg	98
38) Tetrahydofur	6.71	42	700691	4.8697 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV1.D Vial: 13
Acq On : 22 Sep 2016 00:28 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:03:19 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 08:03:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	251281	0.4871 mg/kg	96
40)	111trichlota	6.97	97	206843	0.4965 mg/kg	97
42)	Cyclohexane	7.04	56	231726	0.4935 mg/kg	98
43)	Carbtetraclo	7.19	119	136886	0.5062 mg/kg	99
44)	11dicloprope	7.18	110	68658	0.5124 mg/kg	93
46)	Benzene	7.43	78	575563	0.4983 mg/kg	98
47)	12dichlorota	7.45	62	203188	0.4949 mg/kg	97
48)	TAME	7.59	73	379073	0.5225 mg/kg	99
49)	trichloroete	8.24	95	150171	0.4706 mg/kg	98
50)	methylcyclohexane	8.48	83	241814	0.4984 mg/kg	97
51)	12dicloropra	8.52	63	150795	0.5111 mg/kg	99
52)	23dicl1propene	8.58	75	225938	0.5256 mg/kg	99
53)	Dibromometha	8.67	93	93710	0.5114 mg/kg	98
54)	methylmethacrylate	8.67	69	123334	0.5234 mg/kg	97
55)	14dioxane	8.71	88	39808	24.1224 mg/kg	91
56)	Bromodiclrma	8.86	83	167984	0.5010 mg/kg	92
57)	2Nitropropane	9.15	43	295455	4.7045 mg/kg	98
58)	2CLEVE	9.26	63	326936	2.7820 mg/kg	98
59)	c13dicloproe	9.44	75	206531	0.5181 mg/kg	100
60)	4Meth2Pentan	9.63	43	2166023	5.0977 mg/kg	99
62)	Toluene	9.88	92	342298	0.4819 mg/kg	99
63)	t13Dicloprop	10.16	75	164773	0.5213 mg/kg	98
64)	ethylmethacrylate	10.29	69	399575	1.0645 mg/kg	99
65)	112Triclotha	10.39	83	111146	0.4931 mg/kg	98
66)	Tetrachlorte	10.60	166	184677	0.5027 mg/kg	99
67)	13Diclorpropa	10.63	76	223145	0.5088 mg/kg	100
69)	2Hexanone	10.74	43	1649824	5.0384 mg/kg	100
70)	Clorodibrmta	10.93	129	124727	0.5063 mg/kg	97
71)	12Dibrometha	11.08	107	146757	0.5261 mg/kg	98
72)	Chlorobenzen	11.76	112	378107	0.4804 mg/kg	98
73)	1Clhexane	11.72	91	194737	0.4628 mg/kg	99
74)	1112Tetclota	11.87	131	118933	0.4974 mg/kg	96
75)	Ethylbenzene	11.90	91	668527	0.4965 mg/kg	99
76)	m p-Xylene	12.07	106	507158	0.9889 mg/kg	100
77)	o-Xylene	12.62	106	247209	0.5013 mg/kg	97
78)	Styrene	12.64	104	406882	0.5098 mg/kg	98
79)	Bromoform	12.90	173	88193	0.5105 mg/kg	97
80)	Isopropylben	13.14	105	601528	0.4932 mg/kg	99
82)	cyclohexanone	13.27	55	95728	10.5679 mg/kg	98
84)	Bromobenzene	13.57	156	190587	0.4994 mg/kg	97
85)	1122Tetrclta	13.56	83	191361	0.5105 mg/kg	97
86)	123Triclproa	13.63	75	222565	0.5042 mg/kg	91
87)	14dichloro2butene	13.64	53	37763	0.4480 mg/kg	94
88)	n-Propylbenz	13.73	91	751278	0.4990 mg/kg	99
89)	2chlorotolue	13.85	91	449132	0.4969 mg/kg	96
90)	4chlorotolue	14.00	91	512319	0.5039 mg/kg	99
91)	135Trimebenz	13.99	105	538905	0.5067 mg/kg	100
92)	tbutylbenzen	14.46	119	454321	0.4977 mg/kg	98
93)	124Trimetben	14.53	105	542612	0.5205 mg/kg	100
94)	sbutylbenzen	14.78	105	689893	0.5013 mg/kg	99
95)	13Diclorbenz	14.93	146	326716	0.5021 mg/kg	98
96)	pIsopropylto	14.99	119	578430	0.5106 mg/kg	99
97)	14dichlorobe	15.06	146	320361	0.4915 mg/kg	100
98)	12dichlorobe	15.61	146	312980	0.5036 mg/kg	99
99)	nButylbenzen	15.59	91	510519	0.4954 mg/kg	98
100)	12dibromo3cl	16.71	157	40539	0.5434 mg/kg	95
101)	135Trichlorobenzene	17.01	180	272898	0.5138 mg/kg	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV1.D Vial: 13
Acq On : 22 Sep 2016 00:28 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:03:19 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 08:03:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	229169	0.5183 mg/kg	100
103) Hexachlorobu	18.06	225	136895	0.5223 mg/kg	98
104) Naphthalene	18.13	128	530380	0.5346 mg/kg	99
105) 123Trichlben	18.44	180	210557	0.4999 mg/kg	98

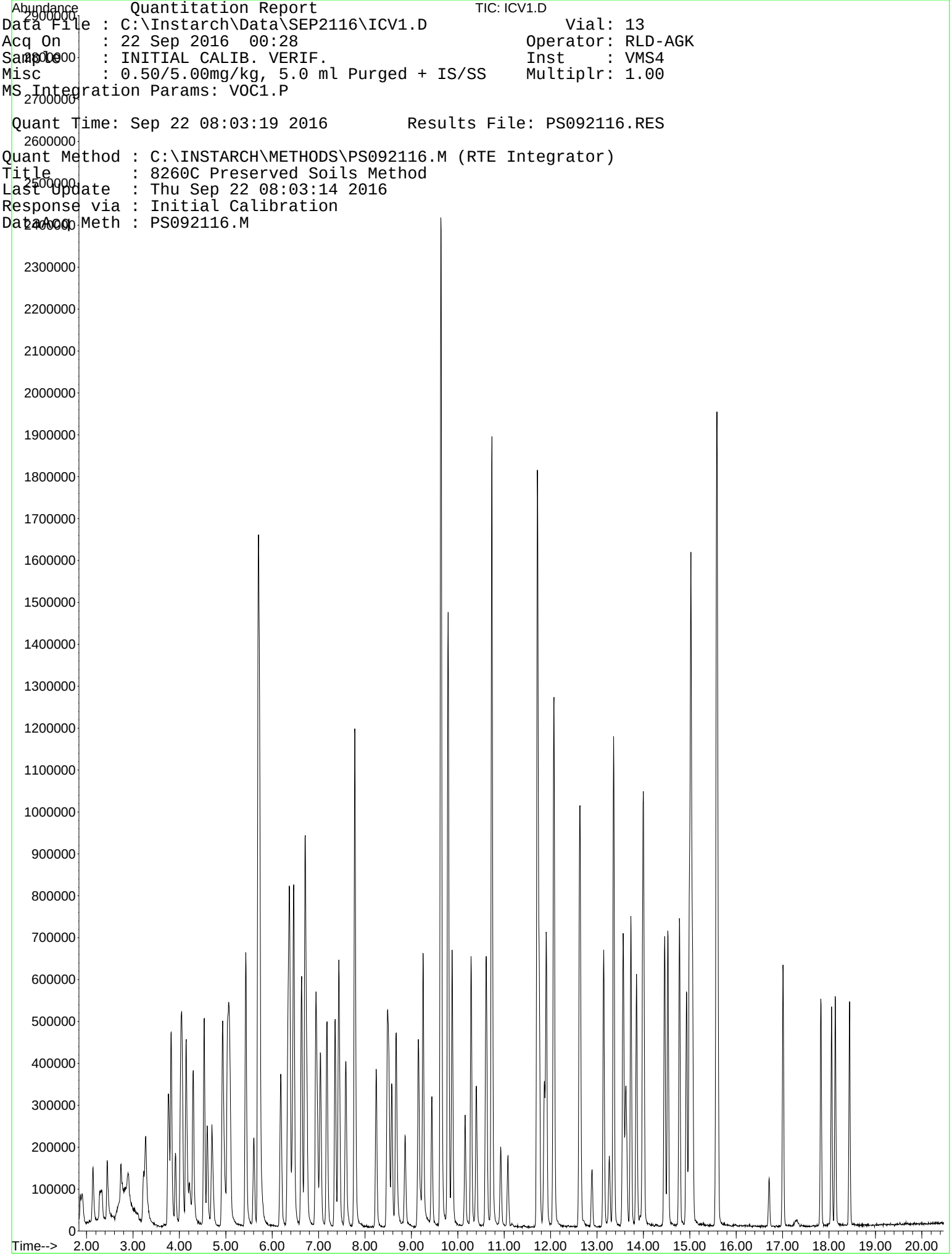
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV1.D Vial: 13
Acq On : 22 Sep 2016 00:28 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:03:19 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 08:03:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\SEP2116\ICV2.D Vial: 14
Acq On : 22 Sep 2016 00:57 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Sep 22 08:04:34 2016

Quant Method : C:\INSTARCH\METHODS\PS092116.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS092116.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	106	0.00
2	T	Dichlorodi	1.5000	1.4389	4.07	110	-0.01
3	PT	Chloromethan	1.5000	1.4091	6.06	107	0.00
4	CT	VinylChlorid	1.5000	1.4354	4.31	108	0.00
5	T	Bromomethane	1.5000	1.4500	3.33	111	0.00
6	T	Chloroethane	1.5000	1.6748	-11.65	112	0.01
7	T	dichloroflmethane	1.5000	1.3865	7.57	106	0.00
8	T	Trichlorofma	1.5000	1.4229	5.14	108	0.00
9	T	Ethylether	1.5000	1.5522	-3.48	104	0.00
10	T	dichlorotfluoroethan	1.5000	1.3694	8.71	104	0.01
11	T	propyleneoxide	15.0000	14.2519	4.99	102	0.00
12	T	Acrolein	7.5000	8.0375	-7.17	117	0.00
13	CT	11dichlorthe	1.5000	1.4952	0.32	110	0.00
14	T	Trichlorotfluoroeth	3.0000	2.8312	5.63	106	0.00
15	T	Acetone	15.0000	12.5419	16.39	90	0.00
16	T	Iodomethane	3.0000	3.1154	-3.85	111	0.00
17	T	Carbon Dislf	3.0000	3.0191	-0.64	108	0.00
18	T	allylchloride	3.0000	2.9361	2.13	107	0.00
19	T	methylacetate	1.5000	1.3203	11.98	95	0.00
20	T	Methylchlorid	1.5000	1.5345	-2.30	108	0.00
21	T	Acrylonitrile	7.5000	6.8595	8.54	101	0.00
22	T	t12dichlorte	1.5000	1.4102	5.99	104	0.00
23	T	tbutylalcohol	75.0000	69.5731	7.24	98	0.00
24	T	MtBE	1.5000	1.4432	3.79	107	0.00
25	T	Hexane	3.0000	2.8304	5.65	105	0.00
26	PT	11dichlorota	1.5000	1.4320	4.53	106	0.00
27	T	Vinylacetate	15.0000	16.8754	-12.50	106	0.00
28	T	chloroprene	3.0000	2.9221	2.60	106	0.00
29	T	Diisopether	1.5000	1.4679	2.14	106	0.00
30	T	ETBE	1.5000	1.5320	-2.13	108	0.00
31	T	22dichloropr	1.5000	1.4873	0.85	106	0.00
32	T	c12dichlorte	1.5000	1.4501	3.33	106	0.00
33	T	2Butanone	15.0000	13.3096	11.27	98	0.00
34	T	propionitrile	15.0000	13.5094	9.94	100	0.00
35	T	Ethylacetate	7.5000	7.6006	-1.34	107	0.00
36	T	methacrylonitrile	3.0000	2.8566	4.78	103	0.00
37	T	Bromochlorma	1.5000	1.4087	6.09	105	0.00
38	T	Tetrahydofur	15.0000	13.5662	9.56	101	0.00
39	CT	Chloroform	1.5000	1.4320	4.53	106	0.00
40	T	111trichlota	1.5000	1.5242	-1.61	107	0.00
41	S	SURRDibrflma	1.0000	0.9974	0.26	104	0.00
42	T	Cyclohexane	1.5000	1.5054	-0.36	110	0.00
43	T	Carbtetraclo	1.5000	1.6818	-12.12	110	0.00
44	T	11dicloprope	1.5000	1.5641	-4.27	110	0.00
45	S	SURR12DCAd4	1.0000	0.9663	3.37	106	0.00
46	T	Benzene	1.5000	1.4651	2.33	107	0.00
47	T	12dichlorota	1.5000	1.4066	6.23	105	0.00
48	T	TAME	1.5000	1.5406	-2.71	107	0.00

49	T	trichloroete	1.5000	1.3934	7.11	106	0.00
50	T	methylcyclohexane	1.5000	1.4926	0.49	107	0.00
51	CT	12dicloropra	1.5000	1.4631	2.46	104	0.00
52	T	23dicl1propene	1.5000	1.4934	0.44	102	0.00
53	T	Dibromometha	1.5000	1.4916	0.56	104	0.00
54	T	methylmethacrylate	1.5000	1.4863	0.91	102	0.00
55	T	14dioxane	75.0000	64.0416	14.61	90	0.00
56	T	Bromodiclrma	1.5000	1.5064	-0.43	103	0.00
57	T	2Nitropropane	15.0000	14.3734	4.18	99	0.00
58		2CLEVE	7.5000	8.1850	-9.13	113	0.00
59	T	c13dicloproe	1.5000	1.5727	-4.85	106	0.00
60	T	4Meth2Pentan	15.0000	12.9854	13.43	100	0.00
61	S	SURRd8Tolule	1.0000	0.9902	0.98	106	0.00
62	CT	Toluene	1.5000	1.4570	2.87	107	0.00
63	T	t13Dicloprop	1.5000	1.6775	-11.83	108	0.00
64	T	ethylmethacrylate	3.0000	3.1850	-6.17	103	0.00
65	T	112Triclotha	1.5000	1.4050	6.33	103	0.00
66	T	Tetrachlorte	1.5000	1.5090	-0.60	107	0.00
67	T	13Diclorpropa	1.5000	1.4316	4.56	105	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	105	0.00
69	T	2Hexanone	15.0000	13.5355	9.76	99	0.00
70	T	Clorodibrmta	1.5000	1.6905	-12.70	108	0.00
71	T	12Dibrometha	1.5000	1.5745	-4.97	105	0.00
72	PT	Chlorobenzen	1.5000	1.4565	2.90	106	0.00
73	T	1Clhexane	1.5000	1.5039	-0.26	111	0.00
74	T	1112Tetclota	1.5000	1.6095	-7.30	104	0.00
75	CT	Ethylbenzene	1.5000	1.5098	-0.65	106	0.00
76	T	m p-Xylene	3.0000	3.0210	-0.70	106	0.00
77	T	o-Xylene	1.5000	1.5054	-0.36	105	0.00
78	T	Styrene	1.5000	1.5378	-2.52	105	0.00
79	PT	Bromoform	1.5000	1.5344	-2.29	103	0.00
80	T	Isopropylben	1.5000	1.5346	-2.31	106	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	106	0.00
82	T	cyclohexanone	30.0000	24.7196	17.60	92	0.00
83	S	SURR4BrFBenz	1.0000	0.9819	1.81	105	0.00
84	T	Bromobenzene	1.5000	1.4519	3.21	103	0.00
85	PT	1122Tetrclta	1.5000	1.4840	1.07	103	0.00
86	T	123Triclproa	1.5000	1.4596	2.69	103	0.00
87	T	14dichloro2butene	1.5000	1.5157	-1.05	101	0.00
88	T	n-Propylbenz	1.5000	1.4854	0.97	106	0.00
89	T	2chlorotolue	1.5000	1.4519	3.21	106	0.00
90	T	4chlorotolue	1.5000	1.4703	1.98	104	0.00
91	T	135Trimebenz	1.5000	1.4994	0.04	107	0.00
92	T	tbutylbenzen	1.5000	1.5040	-0.27	106	0.00
93	T	124Trimetben	1.5000	1.5218	-1.45	107	0.00
94	T	sbutylbenzen	1.5000	1.5028	-0.19	106	0.00
95	T	13Diclorbenz	1.5000	1.4554	2.97	104	0.00
96	T	pIsopropylto	1.5000	1.4949	0.34	105	0.00
97	T	14dichlorobe	1.5000	1.4595	2.70	105	0.00
98	T	12dichlorobe	1.5000	1.4231	5.13	106	0.00
99	T	nButylbenzen	1.5000	1.5130	-0.87	106	0.00
100	T	12dibromo3cl	1.5000	1.5125	-0.83	105	0.00
101	T	135Trichlorobenzene	1.5000	1.4956	0.29	106	0.00
102	T	124Trichlobe	1.5000	1.5354	-2.36	106	0.00
103	T	Hexachlorobu	1.5000	1.5095	-0.63	108	0.00
104	T	Naphthalene	1.5000	1.5217	-1.45	103	0.00
105	T	123Trichlben	1.5000	1.4772	1.52	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS092116.M Mon Sep 26 14:38:15 2016

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV2.D Vial: 14
Acq On : 22 Sep 2016 00:57 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:34 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1354158	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	1017365	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	576050	1.00	mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	338269	0.997	mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery = 100 %			
45) SURR12DCAd4	7.36	102	82132	0.966	mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery = 97 %			
61) SURRd8Tolule	9.79	98	1285205	0.990	mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery = 99 %			
83) SURR4BrFBenz	13.36	95	468495	0.982	mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery = 98 %			

Target Compounds

						Qvalue
2) Dichlorodi	1.90	85	507791	1.4389	mg/kg	97
3) Chloromethan	2.13	50	565225	1.4091	mg/kg	99
4) VinylChlorid	2.29	62	550530	1.4354	mg/kg	97
5) Bromomethane	2.74	94	174343	1.4500	mg/kg	96
6) Chloroethane	2.89	64	218280	1.6748	mg/kg	96
7) dichloroflmethane	3.23	67	780014	1.3865	mg/kg	99
8) Trichlorofma	3.28	101	672867	1.4229	mg/kg	99
9) Ethylether	3.76	59	360925	1.5522	mg/kg	95
10) dichlorotfluoroethan	3.78	67	453271	1.3694	mg/kg	95
11) propyleneoxide	3.82	58	1110059	14.2519	mg/kg	97
12) Acrolein	3.92	56	512640	8.0375	mg/kg	100
13) 11dichlorthe	4.03	96	409139	1.4952	mg/kg	97
14) Trichlorotfluoroeth	4.06	101	790106	2.8312	mg/kg	97
15) Acetone	4.15	43	1899106	12.5419	mg/kg	97
16) Iodomethane	4.23	142	793869	3.1154	mg/kg	98
17) Carbon Dislf	4.30	76	2034867	3.0191	mg/kg	100
18) allylchloride	4.54	41	1239334	2.9361	mg/kg	99
19) methylacetate	4.60	74	178869	1.3203	mg/kg	100
20) Methylchlorid	4.71	84	439526	1.5345	mg/kg	98
21) Acrylonitrile	5.04	53	1140282	6.8595	mg/kg	98
22) t12dichlorte	5.07	96	422129	1.4102	mg/kg	99
23) tbutylalcohol	4.93	59	2400125	69.5731	mg/kg	95
24) MtBE	5.09	73	1187906	1.4432	mg/kg	99
25) Hexane	5.44	57	1152657	2.8304	mg/kg	99
26) 11dichlorota	5.61	63	753703	1.4320	mg/kg	99
27) Vinylacetate	5.70	43	8199332	16.8754	mg/kg	96
28) chloroprene	5.73	53	1417799	2.9221	mg/kg	99
29) Diisopether	5.73	45	1452576	1.4679	mg/kg#	85
30) ETBE	6.19	59	1204401	1.5320	mg/kg	99
31) 22dichloropr	6.34	77	518723	1.4873	mg/kg	98
32) c12dichlorte	6.35	96	470785	1.4501	mg/kg	99
33) 2Butanone	6.38	72	727237	13.3096	mg/kg	97
34) propionitrile	6.44	54	854778	13.5094	mg/kg	99
35) Ethylacetate	6.47	88	119462	7.6006	mg/kg#	91
36) methacrylonitrile	6.63	67	472701	2.8566	mg/kg	97
37) Bromochlorma	6.64	128	211900	1.4087	mg/kg	97
38) Tetrahydofur	6.71	42	2016652	13.5662	mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV2.D Vial: 14
Acq On : 22 Sep 2016 00:57 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:34 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.75	83	763243	1.4320	mg/kg	96
40)	111trichlota	6.97	97	656065	1.5242	mg/kg	98
42)	Cyclohexane	7.04	56	730209	1.5054	mg/kg	99
43)	Carbtetraclo	7.18	119	469849	1.6818	mg/kg	100
44)	11dicloprope	7.18	110	216539	1.5641	mg/kg	94
46)	Benzene	7.44	78	1748503	1.4651	mg/kg	98
47)	12dichlorota	7.46	62	596622	1.4066	mg/kg	99
48)	TAME	7.59	73	1154628	1.5406	mg/kg	96
49)	trichloroete	8.24	95	459400	1.3934	mg/kg	98
50)	methylcyclohexane	8.49	83	748170	1.4926	mg/kg	97
51)	12dicloropra	8.51	63	445942	1.4631	mg/kg	100
52)	23dicl1propene	8.58	75	663210	1.4934	mg/kg	98
53)	Dibromometha	8.67	93	282411	1.4916	mg/kg	98
54)	methylmethacrylate	8.67	69	361819	1.4863	mg/kg	97
55)	14dioxane	8.70	88	114173	64.0416	mg/kg	97
56)	Bromodiclrma	8.87	83	521827	1.5064	mg/kg	90
57)	2Nitropropane	9.15	43	1111046	14.3734	mg/kg	98
58)	2CLEVE	9.25	63	993753	8.1850	mg/kg	100
59)	c13dicloproe	9.44	75	647705	1.5727	mg/kg	100
60)	4Meth2Pentan	9.64	43	5700280	12.9854	mg/kg	95
62)	Toluene	9.88	92	1069284	1.4570	mg/kg	97
63)	t13Dicloprop	10.16	75	547805	1.6775	mg/kg	99
64)	ethylmethacrylate	10.29	69	1235101	3.1850	mg/kg	99
65)	112Triclotha	10.40	83	327189	1.4050	mg/kg	98
66)	Tetrachlorte	10.61	166	572688	1.5090	mg/kg	99
67)	13Diclorpropa	10.63	76	648685	1.4316	mg/kg	98
69)	2Hexanone	10.74	43	4448871	13.5355	mg/kg	97
70)	Clorodibrmta	10.93	129	418007	1.6905	mg/kg	98
71)	12Dibrometha	11.08	107	440886	1.5745	mg/kg	97
72)	Chlorobenzen	11.76	112	1150734	1.4565	mg/kg	100
73)	1Clhexane	11.72	91	635168	1.5039	mg/kg	96
74)	1112Tetclota	11.87	131	386283	1.6095	mg/kg	97
75)	Ethylbenzene	11.91	91	2040780	1.5098	mg/kg	100
76)	m p-Xylene	12.07	106	1555217	3.0210	mg/kg	98
77)	o-Xylene	12.63	106	745212	1.5054	mg/kg	98
78)	Styrene	12.64	104	1231965	1.5378	mg/kg	99
79)	Bromoform	12.89	173	305842	1.5344	mg/kg	99
80)	Isopropylben	13.14	105	1878670	1.5346	mg/kg	99
82)	cyclohexanone	13.27	55	232543	24.7196	mg/kg	94
84)	Bromobenzene	13.57	156	575391	1.4519	mg/kg	96
85)	1122Tetrclta	13.55	83	577666	1.4840	mg/kg	98
86)	123Triclproa	13.62	75	669130	1.4596	mg/kg	92
87)	14dichloro2butene	13.64	53	132687	1.5157	mg/kg	87
88)	n-Propylbenz	13.73	91	2322409	1.4854	mg/kg	100
89)	2chlorotolue	13.85	91	1362881	1.4519	mg/kg	100
90)	4chlorotolue	14.01	91	1552602	1.4703	mg/kg	99
91)	135Trimebenz	13.99	105	1656326	1.4994	mg/kg	100
92)	tbutylbenzen	14.46	119	1425719	1.5040	mg/kg	99
93)	124Trimetben	14.53	105	1647607	1.5218	mg/kg	98
94)	sbutylbenzen	14.77	105	2148065	1.5028	mg/kg	98
95)	13Diclorbenz	14.93	146	983405	1.4554	mg/kg	100
96)	pIsopropylto	14.99	119	1758737	1.4949	mg/kg	99
97)	14dichlorobe	15.06	146	987950	1.4595	mg/kg	99
98)	12dichlorobe	15.60	146	918550	1.4231	mg/kg	99
99)	nButylbenzen	15.59	91	1619230	1.5130	mg/kg	99
100)	12dibromo3cl	16.71	157	133468	1.5125	mg/kg	92
101)	135Trichlorobenzene	17.01	180	824937	1.4956	mg/kg	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV2.D Vial: 14
Acq On : 22 Sep 2016 00:57 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:34 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	704994	1.5354 mg/kg	97
103) Hexachlorobu	18.06	225	410893	1.5095 mg/kg	97
104) Naphthalene	18.14	128	1567796	1.5217 mg/kg	99
105) 123Trichlben	18.44	180	646193	1.4772 mg/kg	99

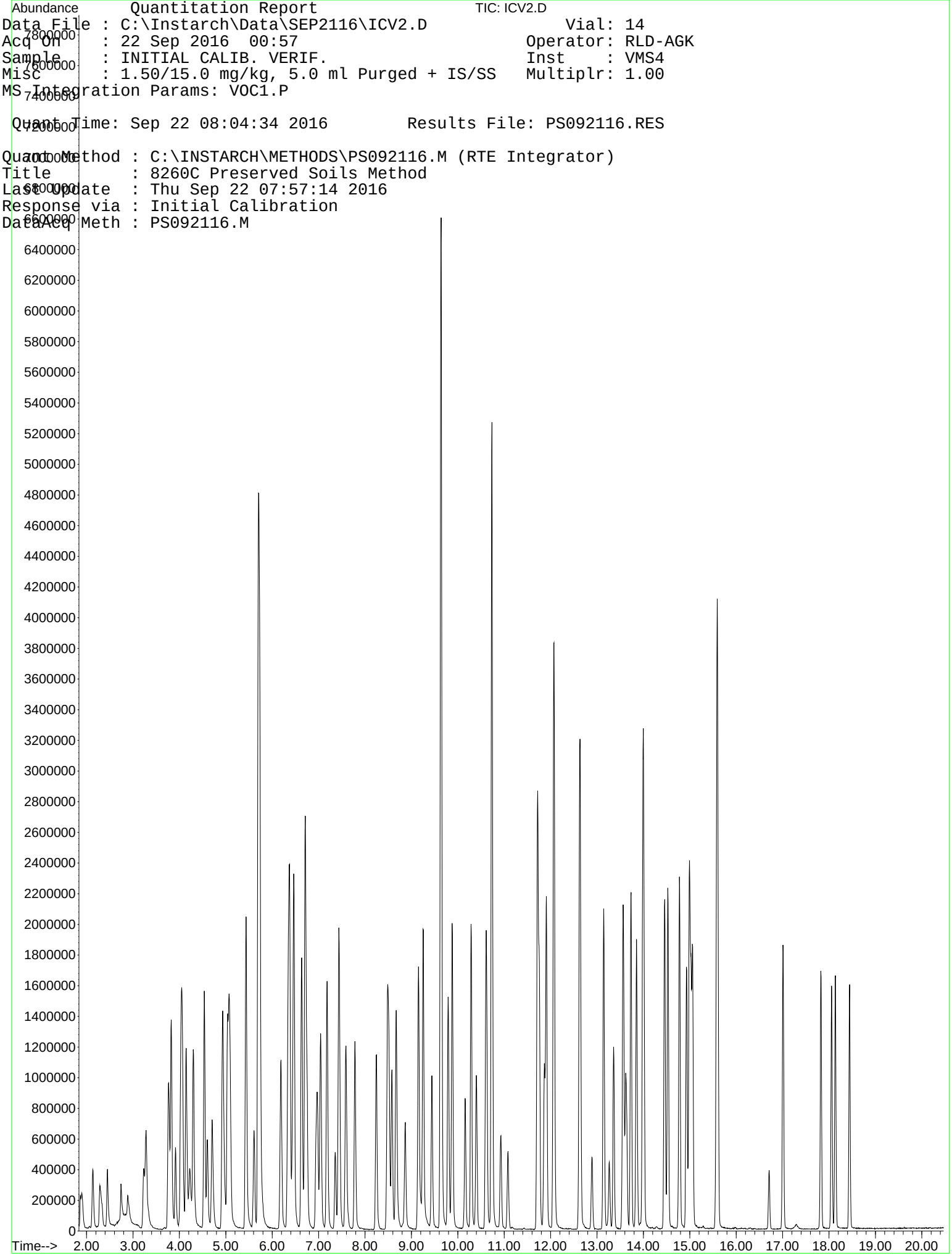
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICV2.D Vial: 14
Acq On : 22 Sep 2016 00:57 Operator: RLD-AGK
Sample : INITIAL CALIB. VERIF. Inst : VMS4
Misc : 1.50/15.0 mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:34 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICB1.D Vial: 17
Acq On : 22 Sep 2016 2:22 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0 ml Ext/50 ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:47 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1254999	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	958813	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	509896	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.94	113	312873	0.995 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery = 100 %		
45) SURR12DCAd4	7.36	102	82530	1.048 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery = 105 %		
61) SURRd8Tolule	9.79	98	1198283	0.996 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery = 100 %		
83) SURR4BrFBenz	13.36	95	431913	1.023 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery = 102 %		

Target Compounds					Qvalue
2) Dichlorodi	0.00	85	0	N.D.	
3) Chloromethan	2.14	50	1282	N.D.	
4) VinylChlorid	0.00	62	0	N.D.	
5) Bromomethane	2.77	94	2944	N.D.	
6) Chloroethane	2.88	64	1419	N.D.	
7) dichloroflmethane	0.00	67	0	N.D.	
8) Trichlorofma	0.00	101	0	N.D.	
9) Ethylether	0.00	59	0	N.D.	
10) dichlorotfluoroethan	0.00	67	0	N.D.	
11) propyleneoxide	0.00	58	0	N.D.	
12) Acrolein	0.00	56	0	N.D.	
13) 11dichlorthe	0.00	96	0	N.D.	
14) Trichlorotfluoroeth	0.00	101	0	N.D.	
15) Acetone	4.15	43	11917	0.0849 mg/kg	95
16) Iodomethane	4.25	142	2075	0.1632 mg/kg#	41
17) Carbon Dislf	4.30	76	2184	N.D.	
18) allylchloride	4.57	41	1960	N.D.	
19) methylacetate	0.00	74	0	N.D.	
20) Methylchlorid	4.70	84	3117	Below Cal	89
21) Acrylonitrile	0.00	53	0	N.D.	
22) t12dichlorte	0.00	96	0	N.D.	
23) tbutylalcohol	4.94	59	1923	N.D.	
24) MtBE	0.00	73	0	N.D.	
25) Hexane	0.00	57	0	N.D.	
26) 11dichlorota	0.00	63	0	N.D.	
27) Vinylacetate	0.00	43	0	N.D.	
28) chloroprene	0.00	53	0	N.D.	
29) Diisopether	0.00	45	0	N.D.	
30) ETBE	0.00	59	0	N.D.	
31) 22dichloropr	0.00	77	0	N.D.	
32) c12dichlorte	0.00	96	0	N.D.	
33) 2Butanone	6.39	72	1611	N.D.	
34) propionitrile	0.00	54	0	N.D.	
35) Ethylacetate	0.00	88	0	N.D.	
36) methacrylonitrile	0.00	67	0	N.D.	
37) Bromochlorma	0.00	128	0	N.D.	
38) Tetrahydofur	6.72	42	3156	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICB1.D Vial: 17
Acq On : 22 Sep 2016 2:22 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0 ml Ext/50 ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:47 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	0.00	83	0	N.D.	
40)	111trichlota	0.00	97	0	N.D.	
42)	Cyclohexane	0.00	56	0	N.D.	
43)	Carbtetraclo	0.00	119	0	N.D.	
44)	11dicloprope	0.00	110	0	N.D.	
46)	Benzene	0.00	78	0	N.D.	
47)	12dichlorota	0.00	62	0	N.D.	
48)	TAME	0.00	73	0	N.D.	
49)	trichloroete	0.00	95	0	N.D.	
50)	methylcyclohexane	0.00	83	0	N.D.	
51)	12dicloropra	0.00	63	0	N.D.	
52)	23dicl1propene	0.00	75	0	N.D.	
53)	Dibromometha	0.00	93	0	N.D.	
54)	methylmethacrylate	0.00	69	0	N.D.	
55)	14dioxane	0.00	88	0	N.D.	
56)	Bromodiclrma	0.00	83	0	N.D.	
57)	2Nitropropane	0.00	43	0	N.D.	
58)	2CLEVE	0.00	63	0	N.D.	
59)	c13dicloproe	0.00	75	0	N.D.	
60)	4Meth2Pentan	9.64	43	2259	N.D.	
62)	Toluene	0.00	92	0	N.D.	
63)	t13Dicloprop	0.00	75	0	N.D.	
64)	ethylmethacrylate	0.00	69	0	N.D.	
65)	112Triclotha	0.00	83	0	N.D.	
66)	Tetrachlorte	0.00	166	0	N.D.	
67)	13Diclorpropa	0.00	76	0	N.D.	
69)	2Hexanone	10.75	43	2656	N.D.	
70)	Clorodibrmta	0.00	129	0	N.D.	
71)	12Dibrometha	0.00	107	0	N.D.	
72)	Chlorobenzen	0.00	112	0	N.D.	
73)	1Clhexane	11.72	91	1347	N.D.	
74)	1112Tetclota	0.00	131	0	N.D.	
75)	Ethylbenzene	0.00	91	0	N.D.	
76)	m p-Xylene	0.00	106	0	N.D.	
77)	o-Xylene	0.00	106	0	N.D.	
78)	Styrene	0.00	104	0	N.D.	
79)	Bromoform	0.00	173	0	N.D.	
80)	Isopropylben	13.14	105	2755	N.D.	
82)	cyclohexanone	13.36	55	1780	0.2138 mg/kg#	41
84)	Bromobenzene	0.00	156	0	N.D.	
85)	1122Tetrclta	0.00	83	0	N.D.	
86)	123Triclproa	0.00	75	0	N.D.	
87)	14dichloro2butene	0.00	53	0	N.D.	
88)	n-Propylbenz	13.73	91	1176	N.D.	
89)	2chlorotolue	13.73	91	1089	N.D.	
90)	4chlorotolue	14.01	91	1050	N.D.	
91)	135Trimebenz	0.00	105	0	N.D.	
92)	tbutylbenzen	14.46	119	1041	N.D.	
93)	124Trimetben	14.53	105	1302	N.D.	
94)	sbutylbenzen	0.00	105	0	N.D.	
95)	13Diclorbenz	0.00	146	0	N.D.	
96)	pIsopropylto	0.00	119	0	N.D.	
97)	14dichlorobe	0.00	146	0	N.D.	
98)	12dichlorobe	0.00	146	0	N.D.	
99)	nButylbenzen	15.59	91	1743	N.D.	
100)	12dibromo3cl	0.00	157	0	N.D.	
101)	135Trichlorobenzene	0.00	180	0	N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICB1.D Vial: 17
Acq On : 22 Sep 2016 2:22 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0 ml Ext/50 ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:47 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.83	180	1399	N.D.	
103) Hexachlorobu	0.00	225	0	N.D.	
104) Naphthalene	18.13	128	7403	N.D.	
105) 123Trichlben	18.44	180	2743	N.D.	

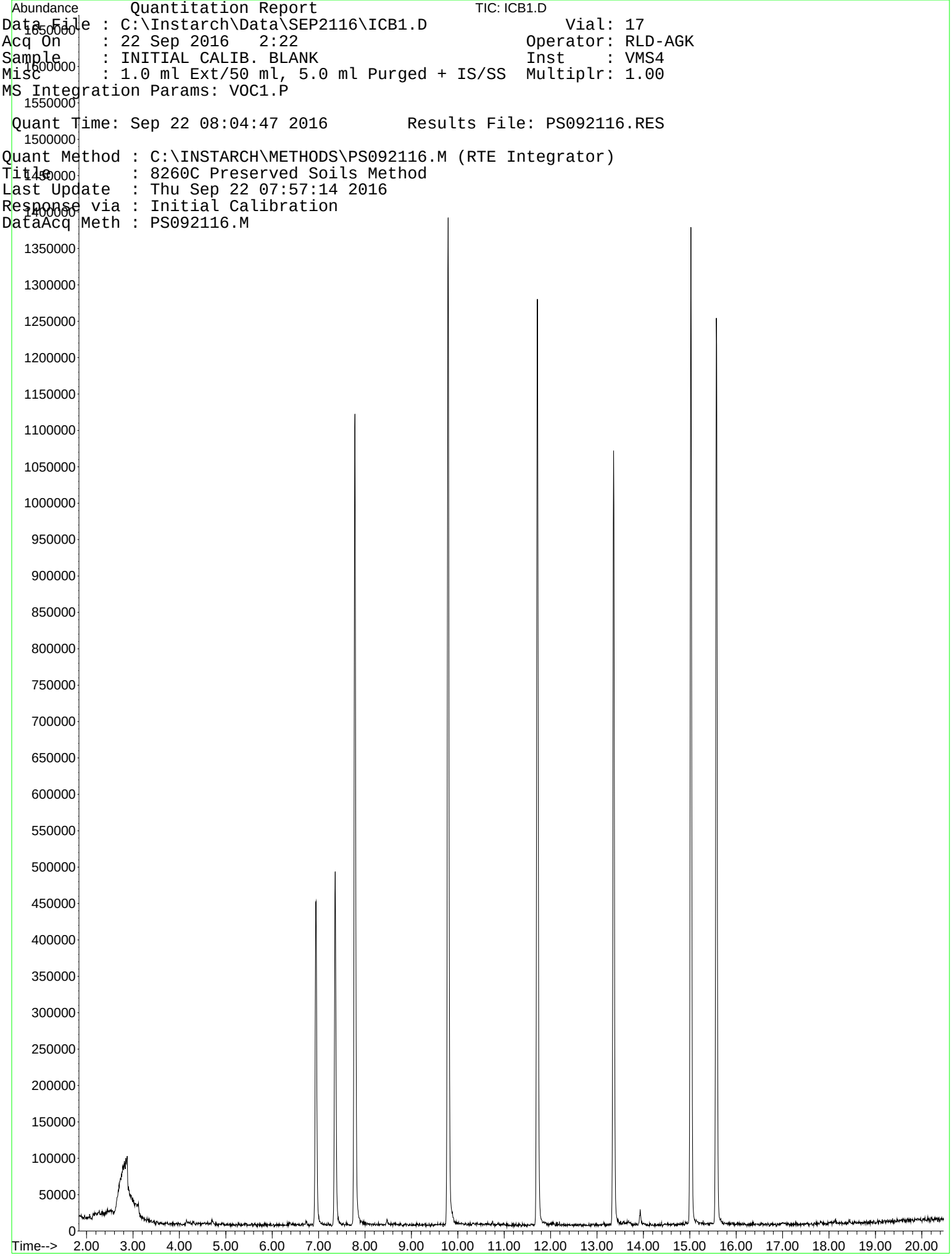
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\SEP2116\ICB1.D Vial: 17
Acq On : 22 Sep 2016 2:22 Operator: RLD-AGK
Sample : INITIAL CALIB. BLANK Inst : VMS4
Misc : 1.0 ml Ext/50 ml, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Sep 22 08:04:47 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Thu Sep 22 07:57:14 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



VOLATILE ORGANIC ANALYSIS
CONTINUING CALIBRATION
DOCUMENTS

BFB

Data File : C:\Instarch\Data\OCT0416B\BFB4.D Vial: 78
Acq On : 6 Oct 2016 9:32 Operator: RLD-AGK
Sample : 130832,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\LW100416.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.761 to 4.780 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	19505	PASS
75	95	30	60	52.6	52557	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.9	6949	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	96.5	96515	PASS
175	174	5	9	7.5	7193	PASS
176	174	95	101	96.0	92694	PASS
177	176	5	9	6.1	5694	PASS

LW100416.M Mon Oct 10 13:28:52 2016

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\oct0416b\CCV-LCS4.D Vial: 79
Acq On : 6 Oct 2016 9:54 Operator: RLD-AGK
Sample : 130832,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 06 10:14:38 2016

Quant Method : C:\INSTARCH\METHODS\LW100416.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW100416.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	99	0.00
2	PT	Dichlorodi	0.1862	0.2200	-18.15	118	0.00
3	PT	Chloromethan	0.2599	0.2675	-2.92	110	0.00
4	PT	VinylChlorid	0.2354	0.2588	-9.94	112	0.00
5	PT	Bromomethane	0.1052	0.1056	-0.38	113	0.00
6	PT	Chloroethane	0.1331	0.1404	-5.48	110	0.00
7	T	Dichloroflmethane	0.3870	0.4124	-6.56	111	0.00
8	PT	Trichlorofma	0.3096	0.3475	-12.24	115	0.00
9	T	Ethylether	0.1374	0.1412	-2.77	99	0.00
10	T	dichlorotfluoroethan	0.2137	0.2375	-11.14	115	0.00
11	T	propyleneoxide	0.0173	0.0164#	5.20	93	0.00
12	T	Acrolein	0.0247	0.0215#	12.96	86	0.00
13	PT	11dichlorthe	0.1815	0.2026	-11.63	114	0.00
14	PT	Trichlorotfluoroeth	0.1892	0.2103	-11.15	114	0.00
15	PT	Acetone	0.0413	0.0346#	16.22	86	0.00
16	T	Iodomethane	0.1621	0.2231	-37.63#	128	0.00
17	PT	Carbon Dislf	0.4441	0.4796	-7.99	109	0.00
18	T	allylchloride	0.2922	0.3173	-8.59	108	0.00
19	PT	methylacetate	0.0314	0.0320#	-1.91	104	0.00
20	PT	Methylchlorid	0.3184	0.2240	29.65#	103	0.00
21	T	tbutylalcohol	0.0082	0.0094#	-14.63	112	0.00
22	T	Acrylonitrile	0.0403	0.0407	-0.99	97	0.00
23	PT	t12dichlorte	0.1955	0.2069	-5.83	108	0.00
24	PT	MtBE	0.4375	0.4476	-2.31	100	-0.01
25	T	Hexane	0.2579	0.2884	-11.83	109	0.00
26	PT	11dichlorota	0.3677	0.3961	-7.72	112	0.00
27	T	Vinylacetate	0.2438	0.2741	-12.43	99	0.00
28	T	chloroprene	0.3228	0.3562	-10.35	110	0.00
29	T	Diisopether	0.6872	0.7238	-5.33	104	0.00
30	T	ETBE	0.5110	0.5302	-3.76	102	0.00
31	T	22dichloropr	0.2459	0.2735	-11.22	114	0.00
32	PT	c12dichlorte	0.2301	0.2388	-3.78	107	0.00
33	PT	2Butanone	0.0129	0.0127#	1.55	96	0.00
34	T	propionitrile	0.0138	0.0153#	-10.87	105	0.00
35	T	Ethylacetate	0.0040	0.0039#	2.50	89	0.00
36	T	methacrylonitrile	0.0484	0.0510	-5.37	100	0.00
37	T	Bromochlorma	0.0994	0.1005	-1.11	104	0.00
38	T	Tetrahydofur	0.0375	0.0358	4.53	97	0.00
39	PT	Chloroform	0.3995	0.4043	-1.20	109	0.00
40	PT	111trichlota	0.3123	0.3429	-9.80	113	0.00
41	S	SURRDibrflma	0.2580	0.2689	-4.22	104	0.00
42	PT	Cyclohexane	0.3226	0.3623	-12.31	115	0.00
43	PT	Carbtetraclo	0.2320	0.2667	-14.96	113	0.00
44	T	11dicloprope	0.0974	0.1056	-8.42	110	0.00
45	S	SURR12DCAd4	0.0526	0.0539	-2.47	103	0.00
46	PT	Benzene	0.8457	0.8928	-5.57	108	0.00
47	PT	12dichlorota	0.2494	0.2509	-0.60	99	0.00
48	T	TAME	0.4488	0.4628	-3.12	101	0.00

49	PT	trichloroete	0.2093	0.2234	-6.74	110	0.00
50	PT	methylcyclohexane	0.3295	0.3684	-11.81	109	0.00
51	PT	12dicloropra	0.2227	0.2274	-2.11	105	0.00
52	T	23Dicl1propene	0.3166	0.3442	-8.72	110	0.00
53	T	Dibromometha	0.1065	0.1087	-2.07	103	0.00
54	T	methylmethacrylate	0.0849	0.0883	-4.00	98	0.00
55	T	14dioxane	0.0007	0.0010#	-42.86#	158	0.00
56	PT	Bromodiclrma	0.2709	0.2781	-2.66	104	0.00
57	T	2Nitropropane	0.0241	0.0254#	-5.39	101	0.00
58	T	2CLEVE	0.0361	0.0285#	21.05#	70	0.00
59	PT	c13dicloproe	0.2823	0.3012	-6.70	103	0.00
60	PT	4Meth2Pentan	0.1282	0.1330	-3.74	98	0.00
61	S	SURRd8Tolule	0.9648	0.9998	-3.63	102	0.00
62	PT	Toluene	0.5181	0.5431	-4.83	109	0.00
63	PT	t13Dicloprop	0.2052	0.2297	-11.94	105	0.00
64	T	ethylmethacrylate	0.1760	0.1874	-6.48	99	0.00
65	PT	112Triclotha	0.1319	0.1297	1.67	103	0.00
66	PT	Tetrachlorte	0.2572	0.2776	-7.93	109	0.00
67	T	13Diclorpropa	0.2536	0.2600	-2.52	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	103	0.00
69	PT	2Hexanone	0.1183	0.1151	2.70	97	0.00
70	PT	Clorodibrmta	0.2278	0.2214	2.81	98	0.00
71	PT	12Dibrometha	0.1862	0.1819	2.31	97	0.00
72	PT	Chlorobenzen	0.7454	0.7410	0.59	107	0.00
73	T	1Clhexane	0.3594	0.3642	-1.34	110	0.00
74	T	1112Tetclota	0.2534	0.2632	-3.87	104	0.00
75	PT	Ethylbenzene	1.2612	1.2988	-2.98	109	0.00
76	PT	m p-Xylene	0.4786	0.4993	-4.33	109	0.00
77	PT	o-Xylene	0.4699	0.4900	-4.28	109	0.00
78	PT	Styrene	0.7429	0.7830	-5.40	109	0.00
79	PT	Bromoform	0.1462	0.1276	12.72	93	0.00
80	PT	Isopropylben	1.1345	1.1821	-4.20	109	0.00
81	T	cyclohexanone	0.0035	0.0039#	-11.43	113	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	105	0.00
83	S	SURR4BrFBenz	0.8057	0.8120	-0.78	104	0.00
84	T	Bromobenzene	0.6596	0.6214	5.79	103	0.00
85	PT	1122Tetrclta	0.4058	0.4057	0.02	101	0.00
86	T	123Triclproa	0.3796	0.3551	6.45	99	0.00
87	T	14dichloro2butene	0.0778	0.0695	10.67	93	0.00
88	T	n-Propylbenz	2.4939	2.6980	-8.18	111	0.00
89	T	2chlorotolue	1.5295	1.5817	-3.41	109	0.00
90	T	4chlorotolue	1.6984	1.7796	-4.78	108	0.00
91	T	135Trimebenz	1.8386	1.9192	-4.38	107	0.00
92	T	tbutylbenzen	1.5589	1.6423	-5.35	112	0.00
93	T	124Trimetben	1.8090	1.8949	-4.75	106	0.00
94	T	sbutylbenzen	2.3280	2.4860	-6.79	110	0.00
95	PT	13Diclorbenz	1.0756	1.1186	-4.00	109	0.00
96	T	pIsopropylto	1.9286	2.0942	-8.59	112	0.00
97	PT	14dichlorobe	1.0613	1.1091	-4.50	111	0.00
98	PT	12dichlorobe	1.0431	1.0488	-0.55	107	0.00
99	T	nButylbenzen	1.7088	1.8377	-7.54	111	0.00
100	PT	12dibromo3cl	0.0660	0.0649	1.67	100	0.00
101	T	135Trichlorobenzene	0.8568	0.9224	-7.66	110	0.00
102	PT	124Trichlobe	0.6659	0.7327	-10.03	109	0.00
103	T	Hexachlorobu	0.4657	0.4705	-1.03	108	0.00
104	T	Naphthalene	1.0269	1.0422	-1.49	100	0.00
105	T	123Trichlben	0.6347	0.6568	-3.48	109	0.00

(#) = Out of Range SPCC's out = 3 CCC's out = 0

LW100416.M Mon Oct 10 14:17:18 2016

Evaluate Continuing Calibration Report

Data File : c:\instarch\data\oct0416b\CCV-LCS4.D Vial: 79
Acq On : 6 Oct 2016 9:54 Operator: RLD-AGK
Sample : 130832,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 06 10:14:38 2016

Quant Method : C:\INSTARCH\METHODS\LW100416.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW100416.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	4.0000	4.0000	0.00	99	0.00
2	PT	Dichlorodi	4.0000	4.7276	-18.19	118	0.00
3	PT	Chloromethan	4.0000	4.1181	-2.95	110	0.00
4	PT	VinylChlorid	4.0000	4.3972	-9.93	112	0.00
5	PT	Bromomethane	4.0000	4.0157	-0.39	113	0.00
6	PT	Chloroethane	4.0000	4.2201	-5.50	110	0.00
7	T	Dichloroflmethane	4.0000	4.2632	-6.58	111	0.00
8	PT	Trichlorofma	4.0000	4.4893	-12.23	115	0.00
9	T	Ethylether	4.0000	4.1084	-2.71	99	0.00
10	T	dichlorotfluoroethan	4.0000	4.4453	-11.13	115	0.00
11	T	propyleneoxide	40.0000	37.8803	5.30	93	0.00
12	T	Acrolein	20.0000	17.4610	12.70	86	0.00
13	PT	11dichlorthe	4.0000	4.4646	-11.61	114	0.00
14	PT	Trichlorotfluoroeth	8.0000	8.8911	-11.14	114	0.00
15	PT	Acetone	40.0000	33.4710	16.32	86	0.00
16	T	Iodomethane	8.0000	9.8169	-22.71#	128	0.00
17	PT	Carbon Dislf	8.0000	8.6385	-7.98	109	0.00
18	T	allylchloride	8.0000	8.6889	-8.61	108	0.00
19	PT	methylacetate	4.0000	4.0864	-2.16	104	0.00
20	PT	Methylchlorid	4.0000	4.1368	-3.42	103	0.00
21	T	tbutylalcohol	200.0000	228.3918	-14.20	112	0.00
22	T	Acrylonitrile	20.0000	20.1657	-0.83	97	0.00
23	PT	t12dichlorte	4.0000	4.2350	-5.88	108	0.00
24	PT	MtBE	4.0000	4.0920	-2.30	100	-0.01
25	T	Hexane	8.0000	8.9460	-11.82	109	0.00
26	PT	11dichlorota	4.0000	4.3086	-7.72	112	0.00
27	T	Vinylacetate	40.0000	44.9682	-12.42	99	0.00
28	T	chloroprene	8.0000	8.8280	-10.35	110	0.00
29	T	Diisopether	4.0000	4.2129	-5.32	104	0.00
30	T	ETBE	4.0000	4.1503	-3.76	102	0.00
31	T	22dichloropr	4.0000	4.4486	-11.21	114	0.00
32	PT	c12dichlorte	4.0000	4.1512	-3.78	107	0.00
33	PT	2Butanone	40.0000	39.3987	1.50	96	0.00
34	T	propionitrile	40.0000	44.3736	-10.93	105	0.00
35	T	Ethylacetate	20.0000	17.1813	14.09	89	0.00
36	T	methacrylonitrile	8.0000	8.4313	-5.39	100	0.00
37	T	Bromochlorma	4.0000	4.0445	-1.11	104	0.00
38	T	Tetrahydofur	40.0000	38.2396	4.40	97	0.00
39	PT	Chloroform	4.0000	4.0485	-1.21	109	0.00
40	PT	111trichlota	4.0000	4.3923	-9.81	113	0.00
41	S	SURRDibrflma	4.0000	4.1686	-4.21	104	0.00
42	PT	Cyclohexane	4.0000	4.4925	-12.31	115	0.00
43	PT	Carbtetraclo	4.0000	4.5977	-14.94	113	0.00
44	T	11dicloprope	4.0000	4.3336	-8.34	110	0.00
45	S	SURR12DCAd4	4.0000	4.0914	-2.29	103	0.00
46	PT	Benzene	4.0000	4.2229	-5.57	108	0.00
47	PT	12dichlorota	4.0000	4.0234	-0.58	99	0.00
48	T	TAME	4.0000	4.1248	-3.12	101	0.00

49	PT	trichloroete	4.0000	4.2692	-6.73	110	0.00
50	PT	methylcyclohexane	4.0000	4.4715	-11.79	109	0.00
51	PT	12dicloropra	4.0000	4.0851	-2.13	105	0.00
52	T	23Dicl1propene	4.0000	4.3488	-8.72	110	0.00
53	T	Dibromometha	4.0000	4.0803	-2.01	103	0.00
54	T	methylmethacrylate	4.0000	4.1595	-3.99	98	0.00
55	T	14dioxane	200.0000	301.7727	-50.89#	158	0.00
56	PT	Bromodiclrma	4.0000	4.1067	-2.67	104	0.00
57	T	2Nitropropane	40.0000	38.7970	3.01	101	0.00
58	T	2CLEVE	20.0000	14.3003	28.50#	70	0.00
59	PT	c13dicloproe	4.0000	4.2674	-6.69	103	0.00
60	PT	4Meth2Pentan	40.0000	41.4806	-3.70	98	0.00
61	S	SURRd8Tolule	4.0000	4.1452	-3.63	102	0.00
62	PT	Toluene	4.0000	4.1937	-4.84	109	0.00
63	PT	t13Dicloprop	4.0000	4.4764	-11.91	105	0.00
64	T	ethylmethacrylate	8.0000	8.5190	-6.49	99	0.00
65	PT	112Triclotha	4.0000	3.9344	1.64	103	0.00
66	PT	Tetrachlorte	4.0000	4.3169	-7.92	109	0.00
67	T	13Diclorpropa	4.0000	4.1010	-2.52	102	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	103	0.00
69	PT	2Hexanone	40.0000	38.9106	2.72	97	0.00
70	PT	Clorodibrmta	4.0000	3.8872	2.82	98	0.00
71	PT	12Dibrometha	4.0000	3.9082	2.30	97	0.00
72	PT	Chlorobenzen	4.0000	3.9760	0.60	107	0.00
73	T	1Clhexane	4.0000	4.0541	-1.35	110	0.00
74	T	1112Tetclota	4.0000	4.1554	-3.89	104	0.00
75	PT	Ethylbenzene	4.0000	4.1192	-2.98	109	0.00
76	PT	m p-Xylene	8.0000	8.3469	-4.34	109	0.00
77	PT	o-Xylene	4.0000	4.1716	-4.29	109	0.00
78	PT	Styrene	4.0000	4.2160	-5.40	109	0.00
79	PT	Bromoform	4.0000	3.4921	12.70	93	0.00
80	PT	Isopropylben	4.0000	4.1676	-4.19	109	0.00
81	T	cyclohexanone	80.0000	90.7812	-13.48	113	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	105	0.00
83	S	SURR4BrFBenz	4.0000	4.0312	-0.78	104	0.00
84	T	Bromobenzene	4.0000	3.7679	5.80	103	0.00
85	PT	1122Tetrclta	4.0000	3.9993	0.02	101	0.00
86	T	123Triclproa	4.0000	3.7420	6.45	99	0.00
87	T	14dichloro2butene	4.0000	3.5735	10.66	93	0.00
88	T	n-Propylbenz	4.0000	4.3273	-8.18	111	0.00
89	T	2chlorotolue	4.0000	4.1366	-3.41	109	0.00
90	T	4chlorotolue	4.0000	4.1911	-4.78	108	0.00
91	T	135Trimebenz	4.0000	4.1754	-4.38	107	0.00
92	T	tbutylbenzen	4.0000	4.2140	-5.35	112	0.00
93	T	124Trimetben	4.0000	4.1899	-4.75	106	0.00
94	T	sbutylbenzen	4.0000	4.2715	-6.79	110	0.00
95	PT	13Diclorbenz	4.0000	4.1599	-4.00	109	0.00
96	T	pIsopropylto	4.0000	4.3434	-8.58	112	0.00
97	PT	14dichlorobe	4.0000	4.1800	-4.50	111	0.00
98	PT	12dichlorobe	4.0000	4.0222	-0.55	107	0.00
99	T	nButylbenzen	4.0000	4.3018	-7.55	111	0.00
100	PT	12dibromo3cl	4.0000	3.6177	9.56	100	0.00
101	T	135Trichlorobenzene	4.0000	4.3062	-7.65	110	0.00
102	PT	124Trichlobe	4.0000	4.4010	-10.02	109	0.00
103	T	Hexachlorobu	4.0000	4.0408	-1.02	108	0.00
104	T	Naphthalene	4.0000	4.0597	-1.49	100	0.00
105	T	123Trichlben	4.0000	4.1395	-3.49	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW100416.M Mon Oct 10 14:18:39 2016

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416B\CCV-LCS4.D Vial: 79
Acq On : 6 Oct 2016 9:54 Operator: RLD-AGK
Sample : 130832,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 10:14:38 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 10:07:35 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1098369	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	873524	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	487262	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	295380	4.169 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 104 %	
45) SURR12DCAd4	7.37	102	59148	4.091 ug/L	0.00
Spiked Amount 4.000	Range 89 - 112		Recovery	= 102 %	
61) SURRd8Tolule	9.79	98	1098141	4.145 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 104 %	
83) SURR4BrFBenz	13.36	95	395654	4.031 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 101 %	

Target Compounds					Qvalue
2) Dichlorodi	1.87	85	241667	4.7276 ug/L	98
3) Chloromethan	2.15	50	293841	4.1181 ug/L	99
4) VinylChlorid	2.29	62	284285	4.3972 ug/L	99
5) Bromomethane	2.77	94	116001	4.0157 ug/L	97
6) Chloroethane	2.92	64	154193	4.2201 ug/L	100
7) Dichloroflmethane	3.25	67	453006	4.2632 ug/L	96
8) Trichlorofma	3.31	101	381673	4.4893 ug/L	97
9) Ethylether	3.75	59	155060	4.1084 ug/L	98
10) dichlorotfluoroethan	3.78	67	260889	4.4453 ug/L	95
11) propyleneoxide	3.82	58	180240	37.8803 ug/L	95
12) Acrolein	3.92	56	118238	17.4610 ug/L	94
13) 11dichlorthe	4.04	96	222533	4.4646 ug/L	97
14) Trichlorotfluoroeth	4.07	101	462026	8.8911 ug/L	97
15) Acetone	4.13	43	379645	33.4710 ug/L	98
16) Iodomethane	4.23	142	490071	9.8169 ug/L	98
17) Carbon Dislf	4.31	76	1053538	8.6385 ug/L	100
18) allylchloride	4.54	41	697057	8.6889 ug/L	99
19) methylacetate	4.60	74	35196	4.0864 ug/L	98
20) Methylchlorid	4.71	84	246042	4.1368 ug/L	97
21) tbutylalcohol	4.91	59	513878	228.3918 ug/L	96
22) Acrylonitrile	5.03	53	223338	20.1657 ug/L	99
23) t12dichlorte	5.07	96	227292	4.2350 ug/L	99
24) MtBE	5.08	73	491613	4.0920 ug/L	98
25) Hexane	5.44	57	633480	8.9460 ug/L	98
26) 11dichlorota	5.61	63	435044	4.3086 ug/L	99
27) Vinylacetate	5.70	43	3010091	44.9682 ug/L	99
28) chloroprene	5.73	53	782398	8.8280 ug/L	100
29) Diisopether	5.73	45	795032	4.2129 ug/L	100
30) ETBE	6.18	59	582312	4.1503 ug/L	98
31) 22dichloropr	6.34	77	300416	4.4486 ug/L	98
32) c12dichlorte	6.35	96	262289	4.1512 ug/L	99
33) 2Butanone	6.37	72	139842	39.3987 ug/L	95
34) propionitrile	6.43	54	168127	44.3736 ug/L	97
35) Ethylacetate	6.46	88	21671	17.1813 ug/L #	85
36) methacrylonitrile	6.63	67	112074	8.4313 ug/L	94
37) Bromochlorma	6.64	128	110398	4.0445 ug/L	97
38) Tetrahydofur	6.71	42	393274	38.2396 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416B\CCV-LCS4.D Vial: 79
Acq On : 6 Oct 2016 9:54 Operator: RLD-AGK
Sample : 130832,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 10:14:38 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 10:07:35 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.75	83	444110	4.0485 ug/L	100
40)	111trichlota	6.98	97	376619	4.3923 ug/L	98
42)	Cyclohexane	7.04	56	397983	4.4925 ug/L	99
43)	Carbtetraclo	7.19	119	292957	4.5977 ug/L	97
44)	11dicloprope	7.18	110	115940	4.3336 ug/L	99
46)	Benzene	7.44	78	980643	4.2229 ug/L	100
47)	12dichlorota	7.46	62	275574	4.0234 ug/L	100
48)	TAME	7.58	73	508315	4.1248 ug/L	99
49)	trichloroete	8.24	95	245322	4.2692 ug/L	98
50)	methylcyclohexane	8.49	83	404592	4.4715 ug/L	95
51)	12dicloropra	8.52	63	249798	4.0851 ug/L	93
52)	23Dicl1propene	8.58	75	378086	4.3488 ug/L	97
53)	Dibromometha	8.67	93	119371	4.0803 ug/L	95
54)	methylmethacrylate	8.68	69	96934	4.1595 ug/L	99
55)	14dioxane	8.70	88	54508	301.7727 ug/L	93
56)	Bromodiclrma	8.87	83	305448	4.1067 ug/L	100
57)	2Nitropropane	9.15	43	279263	38.7970 ug/L	99
58)	2CLEVE	9.26	63	156620	14.3003 ug/L	99
59)	c13dicloproe	9.44	75	330835	4.2674 ug/L	98
60)	4Meth2Pentan	9.63	43	1460585	41.4806 ug/L	99
62)	Toluene	9.88	92	596568	4.1937 ug/L	100
63)	t13Dicloprop	10.16	75	252284	4.4764 ug/L	98
64)	ethylmethacrylate	10.29	69	411690	8.5190 ug/L	98
65)	112Triclotha	10.40	83	142495	3.9344 ug/L	97
66)	Tetrachlorte	10.61	166	304866	4.3169 ug/L	99
67)	13Diclorpropa	10.63	76	285583	4.1010 ug/L	98
69)	2Hexanone	10.74	43	1005268	38.9106 ug/L	99
70)	Clorodibrmta	10.93	129	193403	3.8872 ug/L	98
71)	12Dibrometha	11.08	107	158889	3.9082 ug/L	98
72)	Chlorobenzen	11.76	112	647238	3.9760 ug/L	99
73)	1Clhexane	11.72	91	318181	4.0541 ug/L	99
74)	1112Tetclota	11.87	131	229916	4.1554 ug/L	97
75)	Ethylbenzene	11.91	91	1134545	4.1192 ug/L	100
76)	m p-Xylene	12.07	106	872307	8.3469 ug/L	100
77)	o-Xylene	12.62	106	428057	4.1716 ug/L	97
78)	Styrene	12.64	104	683952	4.2160 ug/L	100
79)	Bromoform	12.89	173	111466	3.4921 ug/L	99
80)	Isopropylben	13.14	105	1032576	4.1676 ug/L	98
81)	cyclohexanone	13.26	55	68517	90.7812 ug/L	98
84)	Bromobenzene	13.57	156	302763	3.7679 ug/L	98
85)	1122Tetrclta	13.56	83	197685	3.9993 ug/L	97
86)	123Triclproa	13.62	75	173038	3.7420 ug/L	97
87)	14dichloro2butene	13.64	53	33887	3.5735 ug/L	98
88)	n-Propylbenz	13.73	91	1314616	4.3273 ug/L	99
89)	2chlorotolue	13.85	91	770695	4.1366 ug/L	99
90)	4chlorotolue	14.00	91	867111	4.1911 ug/L	100
91)	135Trimebenz	13.99	105	935141	4.1754 ug/L	99
92)	tbutylbenzen	14.46	119	800231	4.2140 ug/L	99
93)	124Trimetben	14.53	105	923324	4.1899 ug/L	99
94)	sbutylbenzen	14.77	105	1211344	4.2715 ug/L	99
95)	13Diclorbenz	14.93	146	545053	4.1599 ug/L	99
96)	pIsopropylto	14.99	119	1020414	4.3434 ug/L	98
97)	14dichlorobe	15.06	146	540415	4.1800 ug/L	97
98)	12dichlorobe	15.60	146	511058	4.0222 ug/L	98
99)	nButylbenzen	15.59	91	895449	4.3018 ug/L	99
100)	12dibromo3cl	16.71	157	31610	3.6177 ug/L	97
101)	135Trichlorobenzene	17.01	180	449466	4.3062 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416B\CCV-LCS4.D Vial: 79
Acq On : 6 Oct 2016 9:54 Operator: RLD-AGK
Sample : 130832,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 10:14:38 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 10:07:35 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	357017	4.4010 ug/L	98
103) Hexachlorobu	18.05	225	229245	4.0408 ug/L	96
104) Naphthalene	18.14	128	507836	4.0597 ug/L	100
105) 123Trichlben	18.44	180	320041	4.1395 ug/L	98

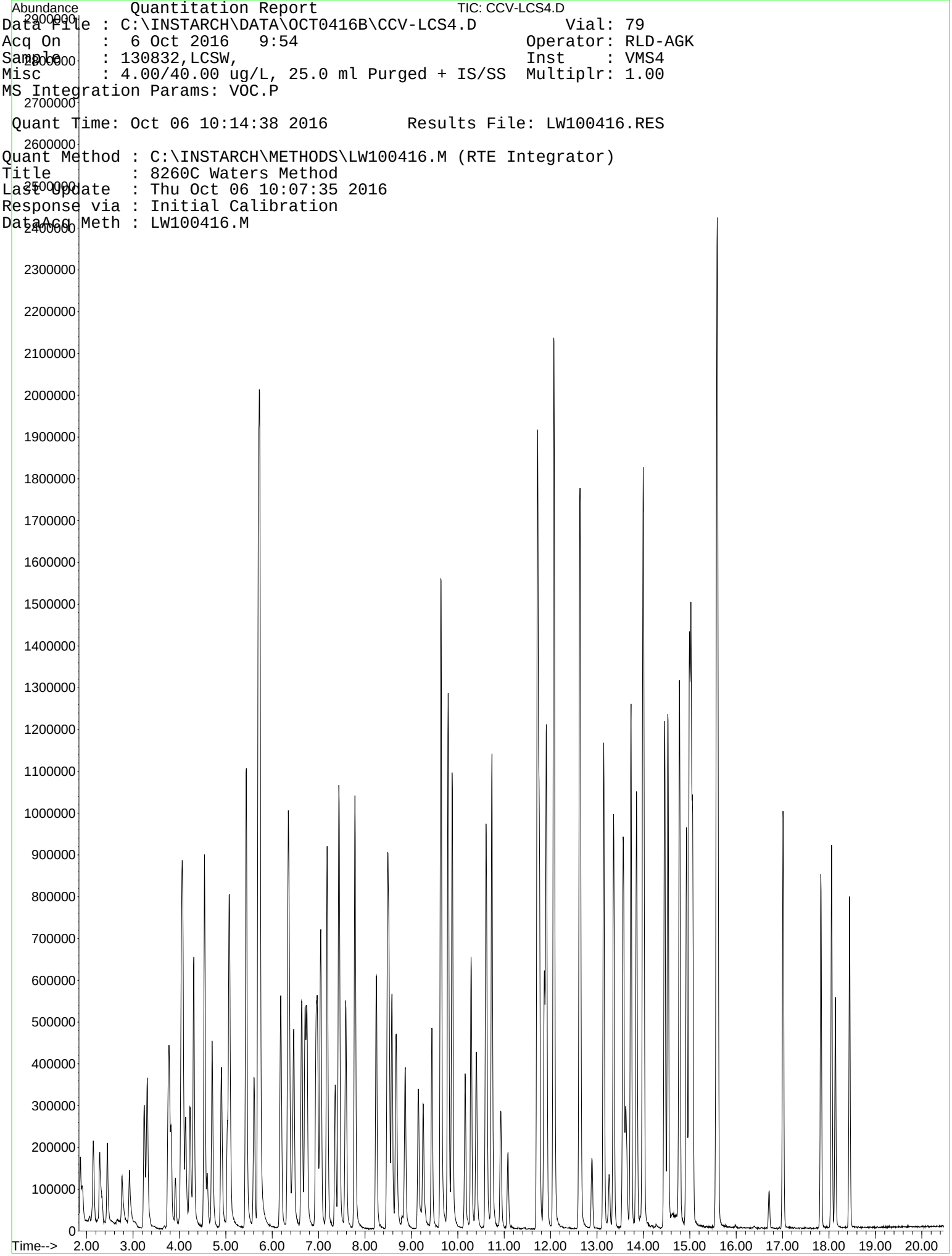
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\DATA\OCT0416B\CCV-LCS4.D Vial: 79
Acq On : 6 Oct 2016 9:54 Operator: RLD-AGK
Sample : 130832,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 10:14:38 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 10:07:35 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



BFB

Data File : M:\Instarch\Data\OCT0616\BFB2.D Vial: 22
Acq On : 7 Oct 2016 9:16 Operator: RLD-AGK
Sample : 130956,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC.P

Method : M:\INSTARCH\METHODS\LW100416.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.755 to 4.786 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	20108	PASS
75	95	30	60	53.1	53131	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.1	7052	PASS
173	174	0.00	2	0.2	207	PASS
174	95	50	100	99.4	99430	PASS
175	174	5	9	6.4	6411	PASS
176	174	95	101	97.6	97080	PASS
177	176	5	9	6.7	6482	PASS

LW100416.M Tue Oct 11 09:48:51 2016

Evaluate Continuing Calibration Report

Data File : M:\Instarch\Data\OCT0616\CCV-LCS2.D Vial: 23
Acq On : 7 Oct 2016 9:30 Operator: RLD-AGK
Sample : 130956,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 07 09:50:39 2016

Quant Method : C:\INSTARCH\METHODS\LW100416.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW100416.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	102	0.00
2	PT	Dichlorodi	0.1862	0.2120	-13.86	118	0.00
3	PT	Chloromethan	0.2599	0.2687	-3.39	114	0.00
4	PT	VinylChlorid	0.2354	0.2749	-16.78	123	0.00
5	PT	Bromomethane	0.1052	0.0681#	35.27#	75	0.00
6	PT	Chloroethane	0.1331	0.1513	-13.67	123	0.00
7	T	Dichloroflmethane	0.3870	0.4428	-14.42	123	0.00
8	PT	Trichlorofma	0.3096	0.3704	-19.64	127	0.00
9	T	Ethylether	0.1374	0.1391	-1.24	101	0.00
10	T	dichlorotfluoroethan	0.2137	0.2563	-19.93	129	0.00
11	T	propyleneoxide	0.0173	0.0126#	27.17#	74	0.00
12	T	Acrolein	0.0247	0.0215#	12.96	89	0.00
13	PT	11dichlorthe	0.1815	0.2142	-18.02	125	0.00
14	PT	Trichlorotfluoroeth	0.1892	0.2203	-16.44	124	0.00
15	PT	Acetone	0.0413	0.0347#	15.98	90	0.00
16	T	Iodomethane	0.1621	0.1137	29.86#	67	0.00
17	PT	Carbon Dislf	0.4441	0.5070	-14.16	119	0.00
18	T	allylchloride	0.2922	0.3359	-14.96	118	0.00
19	PT	methylacetate	0.0314	0.0291#	7.32	97	0.00
20	PT	Methylchlorid	0.3184	0.2281	28.36#	108	0.00
21	T	tbutylalcohol	0.0082	0.0088#	-7.32	108	0.00
22	T	Acrylonitrile	0.0403	0.0385	4.47	95	0.00
23	PT	t12dichlorte	0.1955	0.2207	-12.89	119	0.00
24	PT	MtBE	0.4375	0.4314	1.39	100	0.00
25	T	Hexane	0.2579	0.2939	-13.96	115	0.00
26	PT	11dichlorota	0.3677	0.4141	-12.62	121	0.00
27	T	Vinylacetate	0.2438	0.2561	-5.05	95	0.00
28	T	chloroprene	0.3228	0.3839	-18.93	122	0.00
29	T	Diisopether	0.6872	0.7533	-9.62	111	0.00
30	T	ETBE	0.5110	0.5314	-3.99	105	0.00
31	T	22dichloropr	0.2459	0.2827	-14.97	122	0.00
32	PT	c12dichlorte	0.2301	0.2548	-10.73	118	0.00
33	PT	2Butanone	0.0129	0.0126#	2.33	99	0.00
34	T	propionitrile	0.0138	0.0141#	-2.17	100	0.00
35	T	Ethylacetate	0.0040	0.0043#	-7.50	101	0.00
36	T	methacrylonitrile	0.0484	0.0493	-1.86	100	0.00
37	T	Bromochlorma	0.0994	0.1008	-1.41	108	0.00
38	T	Tetrahydofur	0.0375	0.0340	9.33	95	0.00
39	PT	Chloroform	0.3995	0.4318	-8.09	120	0.00
40	PT	111trichlota	0.3123	0.3692	-18.22	125	0.00
41	S	SURRDibrflma	0.2580	0.2520	2.33	101	0.00
42	PT	Cyclohexane	0.3226	0.3819	-18.38	126	0.00
43	PT	Carbtetraclo	0.2320	0.2739	-18.06	120	0.00
44	T	11dicloprope	0.0974	0.1109	-13.86	119	0.00
45	S	SURR12DCAd4	0.0526	0.0478	9.13	94	-0.01
46	PT	Benzene	0.8457	0.9533	-12.72	119	0.00
47	PT	12dichlorota	0.2494	0.2558	-2.57	105	0.00
48	T	TAME	0.4488	0.4599	-2.47	104	0.00

49	PT	trichloroete	0.2093	0.2386	-14.00	121	0.00
50	PT	methylcyclohexane	0.3295	0.3880	-17.75	119	0.00
51	PT	12dicloropra	0.2227	0.2354	-5.70	113	0.00
52	T	23Dicl1propene	0.3166	0.3559	-12.41	117	0.00
53	T	Dibromometha	0.1065	0.1106	-3.85	108	0.00
54	T	methylmethacrylate	0.0849	0.0839	1.18	97	0.00
55	T	14dioxane	0.0007	0.0009#	-28.57#	153	0.00
56	PT	Bromodiclrma	0.2709	0.2910	-7.42	112	0.00
57	T	2Nitropropane	0.0241	0.0237#	1.66	97	0.00
58	T	2CLEVE	0.0361	0.0096#	73.41#	24#	0.00
59	PT	c13dicloproe	0.2823	0.3063	-8.50	108	0.00
60	PT	4Meth2Pentan	0.1282	0.1251	2.42	96	0.00
61	S	SURRd8Tolule	0.9648	0.9633	0.16	102	0.00
62	PT	Toluene	0.5181	0.5762	-11.21	119	0.00
63	PT	t13Dicloprop	0.2052	0.2138	-4.19	101	0.00
64	T	ethylmethacrylate	0.1760	0.1808	-2.73	99	0.00
65	PT	112Triclotha	0.1319	0.1318	0.08	108	0.00
66	PT	Tetrachlorte	0.2572	0.3010	-17.03	122	0.00
67	T	13Diclorpropa	0.2536	0.2538	-0.08	103	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	101	0.00
69	PT	2Hexanone	0.1183	0.1113	5.92	92	0.00
70	PT	Clorodibrmta	0.2278	0.2329	-2.24	102	0.00
71	PT	12Dibrometha	0.1862	0.1885	-1.24	99	0.00
72	PT	Chlorobenzen	0.7454	0.8141	-9.22	116	0.00
73	T	1Clhexane	0.3594	0.4105	-14.22	122	0.00
74	T	1112Tetclota	0.2534	0.2832	-11.76	110	0.00
75	PT	Ethylbenzene	1.2612	1.4446	-14.54	119	0.00
76	PT	m p-Xylene	0.4786	0.5531	-15.57	119	0.00
77	PT	o-Xylene	0.4699	0.5431	-15.58	118	0.00
78	PT	Styrene	0.7429	0.8506	-14.50	116	0.00
79	PT	Bromoform	0.1462	0.1352	7.52	97	0.00
80	PT	Isopropylben	1.1345	1.3229	-16.61	119	0.00
81	T	cyclohexanone	0.0035	0.0038#	-8.57	108	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	104	0.00
83	S	SURR4BrFBenz	0.8057	0.7844	2.64	100	0.00
84	T	Bromobenzene	0.6596	0.6905	-4.68	114	0.00
85	PT	1122Tetrclta	0.4058	0.4145	-2.14	103	0.00
86	T	123Triclproa	0.3796	0.3380	10.96	93	0.00
87	T	14dichloro2butene	0.0778	0.0553	28.92#	74	0.00
88	T	n-Propylbenz	2.4939	2.9429	-18.00	120	0.00
89	T	2chlorotolue	1.5295	1.7039	-11.40	117	0.00
90	T	4chlorotolue	1.6984	1.9804	-16.60	119	0.00
91	T	135Trimebenz	1.8386	2.1106	-14.79	116	0.00
92	T	tbutylbenzen	1.5589	1.7715	-13.64	120	0.00
93	T	124Trimetben	1.8090	2.0709	-14.48	115	0.00
94	T	sbutylbenzen	2.3280	2.7040	-16.15	119	0.00
95	PT	13Diclorbenz	1.0756	1.2239	-13.79	118	0.00
96	T	pIsopropylto	1.9286	2.2470	-16.51	119	0.00
97	PT	14dichlorobe	1.0613	1.1894	-12.07	118	0.00
98	PT	12dichlorobe	1.0431	1.1407	-9.36	116	0.00
99	T	nButylbenzen	1.7088	1.9378	-13.40	116	0.00
100	PT	12dibromo3cl	0.0660	0.0676	-2.42	104	0.00
101	T	135Trichlorobenzene	0.8568	0.9645	-12.57	114	0.00
102	PT	124Trichlobe	0.6659	0.7437	-11.68	110	0.00
103	T	Hexachlorobu	0.4657	0.4924	-5.73	112	0.00
104	T	Naphthalene	1.0269	0.9419	8.28	90	0.00
105	T	123Trichlben	0.6347	0.6690	-5.40	110	0.00

(#) = Out of Range SPCC's out = 4 CCC's out = 0

LW100416.M Tue Oct 11 09:50:48 2016

Evaluate Continuing Calibration Report

Data File : M:\Instarch\Data\OCT0616\CCV-LCS2.D Vial: 23
Acq On : 7 Oct 2016 9:30 Operator: RLD-AGK
Sample : 130956,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 07 09:50:39 2016

Quant Method : C:\INSTARCH\METHODS\LW100416.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:LW100416.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	4.0000	4.0000	0.00	102	0.00
2	PT	Dichlorodi	4.0000	4.5560	-13.90	118	0.00
3	PT	Chloromethan	4.0000	4.1354	-3.38	114	0.00
4	PT	VinylChlorid	4.0000	4.6698	-16.75	123	0.00
5	PT	Bromomethane	4.0000	2.5877	35.31#	75	0.00
6	PT	Chloroethane	4.0000	4.5498	-13.75	123	0.00
7	T	Dichloroflmethane	4.0000	4.5769	-14.42	123	0.00
8	PT	Trichlorofma	4.0000	4.7859	-19.65	127	0.00
9	T	Ethylether	4.0000	4.0480	-1.20	101	0.00
10	T	dichlorotfluoroethan	4.0000	4.7959	-19.90	129	0.00
11	T	propyleneoxide	40.0000	29.1303	27.17#	74	0.00
12	T	Acrolein	20.0000	17.4169	12.92	89	0.00
13	PT	11dichlorthe	4.0000	4.7199	-18.00	125	0.00
14	PT	Trichlorotfluoroeth	8.0000	9.3123	-16.40	124	0.00
15	PT	Acetone	40.0000	33.5910	16.02	90	0.00
16	T	Iodomethane	8.0000	5.5175	31.03#	67	0.00
17	PT	Carbon Dislf	8.0000	9.1314	-14.14	119	0.00
18	T	allylchloride	8.0000	9.1971	-14.96	118	0.00
19	PT	methylacetate	4.0000	3.7153	7.12	97	0.00
20	PT	Methylchlorid	4.0000	4.2211	-5.53	108	0.00
21	T	tbutylalcohol	200.0000	214.0757	-7.04	108	0.00
22	T	Acrylonitrile	20.0000	19.0738	4.63	95	0.00
23	PT	t12dichlorte	4.0000	4.5165	-12.91	119	0.00
24	PT	MtBE	4.0000	3.9441	1.40	100	0.00
25	T	Hexane	8.0000	9.1171	-13.96	115	0.00
26	PT	11dichlorota	4.0000	4.5048	-12.62	121	0.00
27	T	Vinylacetate	40.0000	42.0278	-5.07	95	0.00
28	T	chloroprene	8.0000	9.5160	-18.95	122	0.00
29	T	Diisopether	4.0000	4.3843	-9.61	111	0.00
30	T	ETBE	4.0000	4.1600	-4.00	105	0.00
31	T	22dichloropr	4.0000	4.5976	-14.94	122	0.00
32	PT	c12dichlorte	4.0000	4.4295	-10.74	118	0.00
33	PT	2Butanone	40.0000	38.9822	2.54	99	0.00
34	T	propionitrile	40.0000	40.9149	-2.29	100	0.00
35	T	Ethylacetate	20.0000	18.8807	5.60	101	0.00
36	T	methacrylonitrile	8.0000	8.1473	-1.84	100	0.00
37	T	Bromochlorma	4.0000	4.0555	-1.39	108	0.00
38	T	Tetrahydofur	40.0000	36.2732	9.32	95	0.00
39	PT	Chloroform	4.0000	4.3238	-8.10	120	0.00
40	PT	111trichlota	4.0000	4.7290	-18.23	125	0.00
41	S	SURRDibrflma	4.0000	3.9055	2.36	101	0.00
42	PT	Cyclohexane	4.0000	4.7348	-18.37	126	0.00
43	PT	Carbtetraclo	4.0000	4.7219	-18.05	120	0.00
44	T	11dicloprope	4.0000	4.5531	-13.83	119	0.00
45	S	SURR12DCAd4	4.0000	3.6311	9.22	94	-0.01
46	PT	Benzene	4.0000	4.5090	-12.73	119	0.00
47	PT	12dichlorota	4.0000	4.1019	-2.55	105	0.00
48	T	TAME	4.0000	4.0989	-2.47	104	0.00

49	PT	trichloroete	4.0000	4.5605	-14.01	121	0.00
50	PT	methylcyclohexane	4.0000	4.7100	-17.75	119	0.00
51	PT	12dicloropra	4.0000	4.2291	-5.73	113	0.00
52	T	23Dicl1propene	4.0000	4.4958	-12.40	117	0.00
53	T	Dibromometha	4.0000	4.1537	-3.84	108	0.00
54	T	methylmethacrylate	4.0000	3.9549	1.13	97	0.00
55	T	14dioxane	200.0000	281.8913	-40.95#	153	0.00
56	PT	Bromodiclrma	4.0000	4.2974	-7.43	112	0.00
57	T	2Nitropropane	40.0000	36.3803	9.05	97	0.00
58	T	2CLEVE	20.0000	5.5421	72.29#	24	0.00
59	PT	c13dicloproe	4.0000	4.3391	-8.48	108	0.00
60	PT	4Meth2Pentan	40.0000	39.0264	2.43	96	0.00
61	S	SURRd8Tolule	4.0000	3.9941	0.15	102	0.00
62	PT	Toluene	4.0000	4.4493	-11.23	119	0.00
63	PT	t13Dicloprop	4.0000	4.1671	-4.18	101	0.00
64	T	ethylmethacrylate	8.0000	8.2202	-2.75	99	0.00
65	PT	112Triclotha	4.0000	3.9960	0.10	108	0.00
66	PT	Tetrachlorte	4.0000	4.6822	-17.06	122	0.00
67	T	13Diclorpropa	4.0000	4.0028	-0.07	103	0.00
68	I	d5-CHLOROBENZENE**ISTD**	4.0000	4.0000	0.00	101	0.00
69	PT	2Hexanone	40.0000	37.6385	5.90	92	0.00
70	PT	Clorodibrmta	4.0000	4.0893	-2.23	102	0.00
71	PT	12Dibrometha	4.0000	4.0495	-1.24	99	0.00
72	PT	Chlorobenzen	4.0000	4.3685	-9.21	116	0.00
73	T	1Clhexane	4.0000	4.5685	-14.21	122	0.00
74	T	1112Tetclota	4.0000	4.4714	-11.79	110	0.00
75	PT	Ethylbenzene	4.0000	4.5816	-14.54	119	0.00
76	PT	m p-Xylene	8.0000	9.2469	-15.59	119	0.00
77	PT	o-Xylene	4.0000	4.6235	-15.59	118	0.00
78	PT	Styrene	4.0000	4.5802	-14.50	116	0.00
79	PT	Bromoform	4.0000	3.6986	7.54	97	0.00
80	PT	Isopropylben	4.0000	4.6641	-16.60	119	0.00
81	T	cyclohexanone	80.0000	88.0689	-10.09	108	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	4.0000	4.0000	0.00	104	0.00
83	S	SURR4BrFBenz	4.0000	3.8940	2.65	100	0.00
84	T	Bromobenzene	4.0000	4.1869	-4.67	114	0.00
85	PT	1122Tetrclta	4.0000	4.0861	-2.15	103	0.00
86	T	123Triclproa	4.0000	3.5618	10.96	93	0.00
87	T	14dichloro2butene	4.0000	2.8417	28.96#	74	0.00
88	T	n-Propylbenz	4.0000	4.7201	-18.00	120	0.00
89	T	2chlorotolue	4.0000	4.4562	-11.40	117	0.00
90	T	4chlorotolue	4.0000	4.6641	-16.60	119	0.00
91	T	135Trimebenz	4.0000	4.5918	-14.80	116	0.00
92	T	tbutylbenzen	4.0000	4.5456	-13.64	120	0.00
93	T	124Trimetben	4.0000	4.5789	-14.47	115	0.00
94	T	sbutylbenzen	4.0000	4.6460	-16.15	119	0.00
95	PT	13Diclorbenz	4.0000	4.5516	-13.79	118	0.00
96	T	pIsopropylto	4.0000	4.6604	-16.51	119	0.00
97	PT	14dichlorobe	4.0000	4.4826	-12.06	118	0.00
98	PT	12dichlorobe	4.0000	4.3744	-9.36	116	0.00
99	T	nButylbenzen	4.0000	4.5360	-13.40	116	0.00
100	PT	12dibromo3cl	4.0000	3.7595	6.01	104	0.00
101	T	135Trichlorobenzene	4.0000	4.5026	-12.57	114	0.00
102	PT	124Trichlobe	4.0000	4.4669	-11.67	110	0.00
103	T	Hexachlorobu	4.0000	4.2289	-5.72	112	0.00
104	T	Naphthalene	4.0000	3.6691	8.27	90	0.00
105	T	123Trichlben	4.0000	4.2164	-5.41	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

LW100416.M Tue Oct 11 09:51:03 2016

Quantitation Report

Data File : M:\Instarch\Data\OCT0616\CCV-LCS2.D Vial: 23
Acq On : 7 Oct 2016 9:30 Operator: RLD-AGK
Sample : 130956,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 09:50:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Oct 07 09:47:04 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1135755	4.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	857532	4.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	15.02	152	484010	4.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	286155	3.906 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 98 %	
45) SURR12DCAd4	7.35	102	54280	3.631 ug/L	-0.01
Spiked Amount 4.000	Range 89 - 112		Recovery	= 91 %	
61) SURRd8Tolule	9.79	98	1094123	3.994 ug/L	0.00
Spiked Amount 4.000	Range 88 - 115		Recovery	= 100 %	
83) SURR4BrFBenz	13.36	95	379635	3.894 ug/L	0.00
Spiked Amount 4.000	Range 80 - 125		Recovery	= 97 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.87	85	240819	4.5560 ug/L	94
3) Chloromethan	2.15	50	305124	4.1354 ug/L	99
4) VinylChlorid	2.28	62	312181	4.6698 ug/L	98
5) Bromomethane	2.77	94	77294	2.5877 ug/L	97
6) Chloroethane	2.92	64	171895	4.5498 ug/L	99
7) Dichloroflmethane	3.25	67	502893	4.5769 ug/L	98
8) Trichlorofma	3.31	101	420738	4.7859 ug/L	98
9) Ethylether	3.75	59	157982	4.0480 ug/L	97
10) dichlorotfluoroethan	3.78	67	291046	4.7959 ug/L	96
11) propyleneoxide	3.82	58	143324	29.1303 ug/L	95
12) Acrolein	3.92	56	121954	17.4169 ug/L	98
13) 11dichlorthe	4.04	96	243267	4.7199 ug/L	97
14) Trichlorotfluoroeth	4.07	101	500385	9.3123 ug/L	99
15) Acetone	4.13	43	393975	33.5910 ug/L	99
16) Iodomethane	4.23	142	258268	5.5175 ug/L	98
17) Carbon Dislf	4.31	76	1151565	9.1314 ug/L	100
18) allylchloride	4.54	41	762940	9.1971 ug/L	99
19) methylacetate	4.60	74	33089	3.7153 ug/L	95
20) Methylchlorid	4.71	84	259122	4.2211 ug/L	98
21) tbutylalcohol	4.91	59	498062	214.0757 ug/L	96
22) Acrylonitrile	5.03	53	218435	19.0738 ug/L	96
23) t12dichlorte	5.07	96	250651	4.5165 ug/L	98
24) MtBE	5.09	73	489967	3.9441 ug/L	98
25) Hexane	5.44	57	667569	9.1171 ug/L	98
26) 11dichlorota	5.61	63	470338	4.5048 ug/L	98
27) Vinylacetate	5.70	43	2909024	42.0278 ug/L	99
28) chloroprene	5.73	53	872076	9.5160 ug/L	99
29) Diisopether	5.73	45	855540	4.3843 ug/L	99
30) ETBE	6.18	59	603530	4.1600 ug/L	99
31) 22dichloropr	6.34	77	321042	4.5976 ug/L	99
32) c12dichlorte	6.35	96	289400	4.4295 ug/L	98
33) 2Butanone	6.37	72	143073	38.9822 ug/L	97
34) propionitrile	6.43	54	160299	40.9149 ug/L	98
35) Ethylacetate	6.46	88	24696	18.8807 ug/L #	90
36) methacrylonitrile	6.63	67	111985	8.1473 ug/L	97
37) Bromochlorma	6.65	128	114467	4.0555 ug/L	97
38) Tetrahydofur	6.71	42	385748	36.2732 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\Instarch\Data\OCT0616\CCV-LCS2.D Vial: 23
Acq On : 7 Oct 2016 9:30 Operator: RLD-AGK
Sample : 130956,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 09:50:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Oct 07 09:47:04 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	490453	4.3238 ug/L	100
40) 111trichlota	6.98	97	419290	4.7290 ug/L	97
42) Cyclohexane	7.04	56	433721	4.7348 ug/L	98
43) Carbtetraclo	7.19	119	311112	4.7219 ug/L	99
44) 11dicloprope	7.18	110	125956	4.5531 ug/L	98
46) Benzene	7.44	78	1082719	4.5090 ug/L	99
47) 12dichlorota	7.46	62	290513	4.1019 ug/L	99
48) TAME	7.58	73	522320	4.0989 ug/L	99
49) trichloroete	8.24	95	270984	4.5605 ug/L	99
50) methylcyclohexane	8.49	83	440676	4.7100 ug/L	98
51) 12dicloropra	8.51	63	267401	4.2291 ug/L	100
52) 23Dicl1propene	8.58	75	404172	4.4958 ug/L	98
53) Dibromometha	8.66	93	125655	4.1537 ug/L	94
54) methylmethacrylate	8.68	69	95303	3.9549 ug/L	95
55) 14dioxane	8.70	88	52650	281.8913 ug/L	98
56) Bromodiclrma	8.86	83	330506	4.2974 ug/L	99
57) 2Nitropropane	9.15	43	269232	36.3803 ug/L	95
58) 2CLEVE	9.26	63	54235	5.5421 ug/L	98
59) c13dicloproe	9.44	75	347843	4.3391 ug/L	100
60) 4Meth2Pentan	9.63	43	1420946	39.0264 ug/L	99
62) Toluene	9.88	92	654473	4.4493 ug/L	99
63) t13Dicloprop	10.16	75	242846	4.1671 ug/L	98
64) ethylmethacrylate	10.29	69	410772	8.2202 ug/L	98
65) 112Triclotha	10.40	83	149650	3.9960 ug/L	97
66) Tetrachlorte	10.61	166	341918	4.6822 ug/L	99
67) 13Diclorpropa	10.62	76	288236	4.0028 ug/L	100
69) 2Hexanone	10.73	43	954599	37.6385 ug/L	98
70) Clorodibrmta	10.92	129	199731	4.0893 ug/L	99
71) 12Dibrometha	11.08	107	161620	4.0495 ug/L	98
72) Chlorobenzen	11.76	112	698106	4.3685 ug/L	100
73) 1Clhexane	11.72	91	351986	4.5685 ug/L	100
74) 1112Tetclota	11.87	131	242868	4.4714 ug/L	96
75) Ethylbenzene	11.91	91	1238776	4.5816 ug/L	100
76) m p-Xylene	12.07	106	948667	9.2469 ug/L	100
77) o-Xylene	12.62	106	465749	4.6235 ug/L	97
78) Styrene	12.64	104	729429	4.5802 ug/L	100
79) Bromoform	12.89	173	115896	3.6986 ug/L	97
80) Isopropylben	13.14	105	1134417	4.6641 ug/L	99
81) cyclohexanone	13.27	55	65253	88.0689 ug/L	98
84) Bromobenzene	13.57	156	334186	4.1869 ug/L	97
85) 1122Tetrclta	13.56	83	200624	4.0861 ug/L	98
86) 123Triclproa	13.62	75	163608	3.5618 ug/L	95
87) 14dichloro2butene	13.64	53	26768	2.8417 ug/L	93
88) n-Propylbenz	13.73	91	1424396	4.7201 ug/L	99
89) 2chlorotolue	13.85	91	824705	4.4562 ug/L	100
90) 4chlorotolue	14.00	91	958531	4.6641 ug/L	100
91) 135Trimebenz	13.99	105	1021537	4.5918 ug/L	99
92) tbutylbenzen	14.46	119	857437	4.5456 ug/L	99
93) 124Trimetben	14.53	105	1002321	4.5789 ug/L	98
94) sbutylbenzen	14.77	105	1308752	4.6460 ug/L	100
95) 13Diclorbenz	14.93	146	592391	4.5516 ug/L	99
96) pIsopropylto	14.99	119	1087590	4.6604 ug/L	98
97) 14dichlorobe	15.06	146	575664	4.4826 ug/L	98
98) 12dichlorobe	15.60	146	552100	4.3744 ug/L	99
99) nButylbenzen	15.59	91	937900	4.5360 ug/L	100
100) 12dibromo3cl	16.71	157	32707	3.7595 ug/L	95
101) 135Trichlorobenzene	17.01	180	466829	4.5026 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\Instarch\Data\OCT0616\CCV-LCS2.D Vial: 23
Acq On : 7 Oct 2016 9:30 Operator: RLD-AGK
Sample : 130956,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 09:50:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Oct 07 09:47:04 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	359945	4.4669 ug/L	98
103) Hexachlorobu	18.06	225	238319	4.2289 ug/L	98
104) Naphthalene	18.14	128	455913	3.6691 ug/L	99
105) 123Trichlben	18.44	180	323805	4.2164 ug/L	100

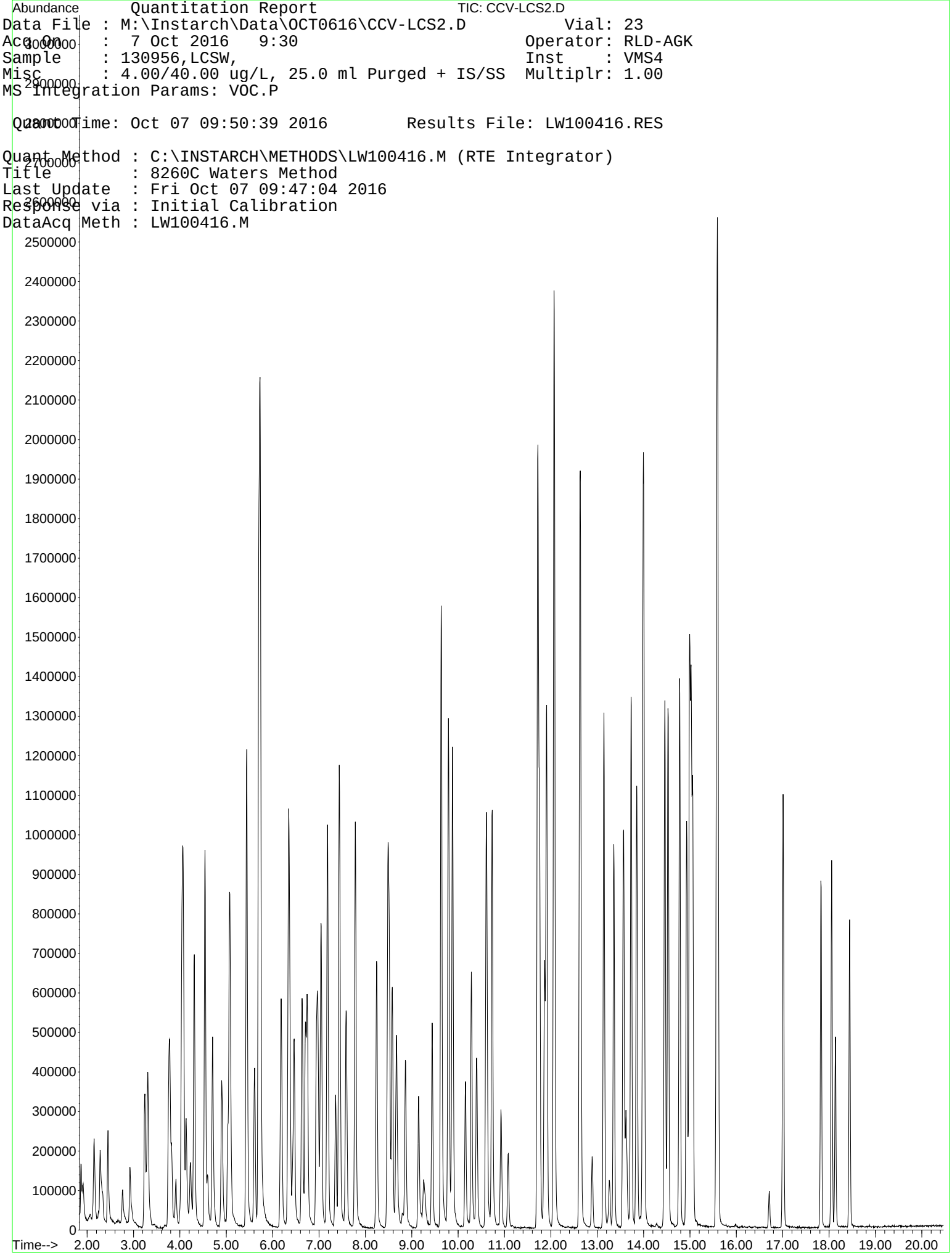
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : M:\Instarch\Data\OCT0616\CCV-LCS2.D Vial: 23
Acq On : 7 Oct 2016 9:30 Operator: RLD-AGK
Sample : 130956,LCSW, Inst : VMS4
Misc : 4.00/40.00 ug/L, 25.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 09:50:39 2016 Results File: LW100416.RES

Quant Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Fri Oct 07 09:47:04 2016
Response via : Initial Calibration
DataAcq Meth : LW100416.M



BFB

Data File : C:\INSTARCH\Data\OCT0616B\BFB1.D Vial: 1
Acq On : 6 Oct 2016 15:40 Operator: AGK-RLD
Sample : 131015,BFB, Inst : VMS3
Misc : 25 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W100516.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.417 to 4.435 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.5	15181	PASS
75	95	30	60	54.1	29892	PASS
95	95	100	100	100.0	55230	PASS
96	95	5	9	7.7	4253	PASS
173	174	0.00	2	0.3	129	PASS
174	95	50	100	78.1	43134	PASS
175	174	5	9	6.4	2743	PASS
176	174	95	101	95.8	41328	PASS
177	176	5	9	6.0	2497	PASS

W100516.M Fri Oct 07 12:33:24 2016

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\OCT0616B\CCV-LCS1.D Vial: 2
Acq On : 6 Oct 2016 16:05 Operator: AGK-RLD
Sample : 131015,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 06 16:26:17 2016

Quant Method : C:\INSTARCH\METHODS\W100516.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W100516.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	73	0.00
2	PT	Dichlorodi	0.2366	0.2387	-0.89	72	0.00
3	PT	Chloromethan	0.5902	0.6253	-5.95	80	0.00
4	PT	VinylChlorid	0.4034	0.4224	-4.71	75	0.00
5	PT	Bromomethane	0.1087	0.1269	-16.74	95	0.00
6	PT	Chloroethane	0.2502	0.2911	-16.35	86	0.00
7	T	Dichloroflmethane	0.4938	0.5060	-2.47	76	0.00
8	PT	Trichlorofma	0.3722	0.3773	-1.37	75	0.00
9	T	Ethylether	0.2685	0.2792	-3.99	79	0.00
10	T	dichlorotfluoroethan	0.2948	0.3024	-2.58	76	0.00
11	T	propyleneoxide	0.0808	0.0744	7.92	71	0.00
12	T	Acrolein	0.1273	0.1144	10.13	70	0.00
13	PT	11dichlorthe	0.2575	0.2434	5.48	70	0.00
14	PT	Trichlorotfluoroeth	0.2360	0.2340	0.85	71	0.00
15	PT	Acetone	0.2123	0.2212	-4.19	74	0.00
16	T	Iodomethane	0.1911	0.1694	11.36	76	0.00
17	PT	Carbon Dislf	0.6565	0.6887	-4.90	74	0.00
18	T	allylchloride	0.3747	0.4264	-13.80	77	0.00
19	PT	methylacetate	0.1595	0.1647	-3.26	76	0.00
20	PT	Methylchlorid	0.2988	0.2729	8.67	72	0.00
21	T	tbutylalcohol	0.0867	0.0916	-5.65	82	0.00
22	T	Acrylonitrile	0.1935	0.2063	-6.61	81	0.00
23	PT	t12dichlorte	0.2741	0.2663	2.85	76	0.00
24	PT	MtBE	0.7970	0.8139	-2.12	79	0.00
25	T	Hexane	0.4255	0.4666	-9.66	78	0.00
26	PT	11dichlorota	0.5351	0.5341	0.19	78	0.00
27	T	Vinylacetate	0.5426	0.6531	-20.36#	86	0.00
28	T	chloroprene	0.5009	0.5782	-15.43	84	0.00
29	T	Diisopether	0.9070	1.0860	-19.74	90	0.00
30	T	ETBE	0.9229	0.9903	-7.30	80	0.00
31	T	22dichloropr	0.3958	0.3765	4.88	71	0.00
32	PT	c12dichlorte	0.2918	0.3119	-6.89	80	0.00
33	PT	2Butanone	0.0752	0.0734#	2.39	76	0.00
34	T	propionitrile	0.0877	0.0955	-8.89	86	0.00
35	T	Ethylacetate	0.0197	0.0205#	-4.06	82	0.00
36	T	methacrylonitrile	0.1978	0.1977	0.05	77	0.00
37	T	Bromochlorma	0.1090	0.1103	-1.19	75	0.01
38	T	Tetrahydofur	0.1770	0.1984	-12.09	84	0.00
39	PT	Chloroform	0.4681	0.4769	-1.88	79	0.00
40	PT	111trichlota	0.4218	0.4212	0.14	78	0.00
41	S	SURRDibrflma	0.2481	0.2472	0.36	75	0.00
42	PT	Cyclohexane	0.5718	0.6253	-9.36	78	0.00
43	PT	Carbtetraclo	0.2882	0.3145	-9.13	78	0.00
44	T	11dicloprope	0.1317	0.1311	0.46	69	0.00
45	S	SURR12DCAd4	0.0649	0.0657	-1.23	72	0.00
46	PT	Benzene	1.0702	1.1501	-7.47	75	0.00
47	PT	12dichlorota	0.4036	0.4091	-1.36	75	0.00
48	T	TAME	0.8287	0.8338	-0.62	71	0.00

49	PT	trichloroete	0.2883	0.2745	4.79	70	0.00
50	PT	methylcyclohexane	0.4711	0.5086	-7.96	80	0.00
51	PT	12dicloropra	0.3345	0.3441	-2.87	81	0.00
52	T	23Dicl1propene	0.4412	0.4446	-0.77	78	0.00
53	T	Dibromometha	0.1795	0.1773	1.23	80	0.00
54	T	methylmethacrylate	0.3079	0.3068	0.36	78	0.00
55	T	14dioxane	0.0045	0.0037#	17.78	80	0.00
56	PT	Bromodiclrma	0.3617	0.3575	1.16	78	0.00
57	T	2Nitropropane	0.1690	0.1833	-8.46	80	0.00
58	T	2CLEVE	0.0318	0.0141#	55.66#	33#	0.00
59	PT	c13dicloproe	0.4575	0.4346	5.01	71	0.00
60	PT	4Meth2Pentan	0.4627	0.5247	-13.40	86	0.00
61	S	SURRd8Tolule	0.9915	1.0156	-2.43	79	0.00
62	PT	Toluene	0.6830	0.6866	-0.53	75	0.00
63	PT	t13Dicloprop	0.4127	0.3894	5.65	74	0.00
64	T	ethylmethacrylate	0.4543	0.4731	-4.14	77	0.00
65	PT	112Triclotha	0.2297	0.2278	0.83	77	0.00
66	PT	Tetrachlorte	0.2547	0.2576	-1.14	76	0.00
67	T	13Diclorpropa	0.4629	0.4638	-0.19	77	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	77	0.00
69	PT	2Hexanone	0.5142	0.5695	-10.75	86	0.00
70	PT	Clorodibrmta	0.3416	0.3073	10.04	72	0.00
71	PT	12Dibrometha	0.3736	0.3558	4.76	79	0.00
72	PT	Chlorobenzen	0.9145	0.9361	-2.36	79	0.00
73	T	1Clhexane	0.5114	0.5448	-6.53	78	0.00
74	T	1112Tetclota	0.3196	0.3042	4.82	75	0.00
75	PT	Ethylbenzene	1.6033	1.6881	-5.29	78	0.00
76	PT	m p-Xylene	0.6008	0.6305	-4.94	77	0.00
77	PT	o-Xylene	0.6174	0.6185	-0.18	79	0.00
78	PT	Styrene	1.0250	1.0175	0.73	77	0.00
79	PT	Bromoform	0.2531	0.1974	22.01#	63	0.00
80	PT	Isopropylben	1.3886	1.4467	-4.18	77	0.00
81	T	cyclohexanone	0.0305	0.0263#	13.77	79	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	79	0.00
83	S	SURR4BrFBenz	1.0512	1.0368	1.37	77	0.00
84	T	Bromobenzene	0.7109	0.6711	5.60	73	0.00
85	PT	1122Tetrclta	1.1279	1.1305	-0.23	76	0.00
86	T	123Triclproa	1.4781	1.3328	9.83	72	0.00
87	T	14dichloro2butene	0.3873	0.3182	17.84	66	0.00
88	T	n-Propylbenz	3.5818	3.6795	-2.73	78	0.00
89	T	2chlorotolue	2.0922	2.1831	-4.34	81	0.00
90	T	4chlorotolue	2.3803	2.5096	-5.43	78	0.00
91	T	135Trimebenz	2.3665	2.4139	-2.00	77	0.00
92	T	tbutylbenzen	1.9725	2.0199	-2.40	78	0.00
93	T	124Trimetben	2.3691	2.4530	-3.54	77	0.00
94	T	sbutylbenzen	2.8221	3.0229	-7.12	78	0.00
95	PT	13Diclorbenz	1.2042	1.2091	-0.41	78	0.00
96	T	pIsopropylto	2.2951	2.3949	-4.35	79	0.00
97	PT	14dichlorobe	1.2353	1.2068	2.31	76	0.00
98	PT	12dichlorobe	1.1661	1.0927	6.29	74	0.00
99	T	nButylbenzen	2.2293	2.3320	-4.61	76	0.00
100	PT	12dibromo3cl	0.3052	0.2599	14.84	69	0.01
101	T	135Trichlorobenzene	0.8293	0.7717	6.95	76	0.00
102	PT	124Trichlobe	0.7171	0.6691	6.69	75	0.00
103	T	Hexachlorobu	0.2689	0.2873	-6.84	77	0.00
104	T	Naphthalene	2.7562	2.5773	6.49	75	0.00
105	T	123Trichlben	0.6767	0.6159	8.98	74	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

W100516.M Fri Oct 07 12:37:07 2016

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\OCT0616B\CCV-LCS1.D Vial: 2
Acq On : 6 Oct 2016 16:05 Operator: AGK-RLD
Sample : 131015,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 06 16:26:17 2016

Quant Method : C:\INSTARCH\METHODS\W100516.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W100516.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	73	0.00
2	PT	Dichlorodi	10.0000	10.0909	-0.91	72	0.00
3	PT	Chloromethan	10.0000	11.3345	-13.35	80	0.00
4	PT	VinylChlorid	10.0000	10.4719	-4.72	75	0.00
5	PT	Bromomethane	10.0000	11.6690	-16.69	95	0.00
6	PT	Chloroethane	10.0000	11.6320	-16.32	86	0.00
7	T	Dichloroflmethane	10.0000	10.2471	-2.47	76	0.00
8	PT	Trichlorofma	10.0000	10.1378	-1.38	75	0.00
9	T	Ethylether	10.0000	10.3998	-4.00	79	0.00
10	T	dichlorotfluoroethan	10.0000	10.2599	-2.60	76	0.00
11	T	propyleneoxide	100.0000	92.0056	7.99	71	0.00
12	T	Acrolein	50.0000	44.9157	10.17	70	0.00
13	PT	11dichlorthe	10.0000	9.4511	5.49	70	0.00
14	PT	Trichlorotfluoroeth	20.0000	19.8338	0.83	71	0.00
15	PT	Acetone	100.0000	104.1824	-4.18	74	0.00
16	T	Iodomethane	20.0000	19.4100	2.95	76	0.00
17	PT	Carbon Dislf	20.0000	20.9821	-4.91	74	0.00
18	T	allylchloride	20.0000	21.6331	-8.17	77	0.00
19	PT	methylacetate	10.0000	10.3267	-3.27	76	0.00
20	PT	Methylchlorid	10.0000	9.8036	1.96	72	0.00
21	T	tbutylalcohol	500.0000	583.7460	-16.75	82	0.00
22	T	Acrylonitrile	50.0000	53.3138	-6.63	81	0.00
23	PT	t12dichlorte	10.0000	9.7141	2.86	76	0.00
24	PT	MtBE	10.0000	10.2109	-2.11	79	0.00
25	T	Hexane	20.0000	21.9327	-9.66	78	0.00
26	PT	11dichlorota	10.0000	9.9808	0.19	78	0.00
27	T	Vinylacetate	100.0000	128.6731	-28.67#	86	0.00
28	T	chloroprene	20.0000	23.0862	-15.43	84	0.00
29	T	Diisopether	10.0000	11.9733	-19.73	90	0.00
30	T	ETBE	10.0000	10.7302	-7.30	80	0.00
31	T	22dichloropr	10.0000	9.5130	4.87	71	0.00
32	PT	c12dichlorte	10.0000	10.6871	-6.87	80	0.00
33	PT	2Butanone	100.0000	97.5860	2.41	76	0.00
34	T	propionitrile	100.0000	108.9471	-8.95	86	0.00
35	T	Ethylacetate	50.0000	52.1207	-4.24	82	0.00
36	T	methacrylonitrile	20.0000	19.9823	0.09	77	0.00
37	T	Bromochlorma	10.0000	10.1153	-1.15	75	0.01
38	T	Tetrahydofur	100.0000	112.0328	-12.03	84	0.00
39	PT	Chloroform	10.0000	10.1876	-1.88	79	0.00
40	PT	111trichlota	10.0000	9.9848	0.15	78	0.00
41	S	SURRDibrflma	20.0000	19.9233	0.38	75	0.00
42	PT	Cyclohexane	10.0000	10.9358	-9.36	78	0.00
43	PT	Carbtetraclo	10.0000	10.9117	-9.12	78	0.00
44	T	11dicloprope	10.0000	9.9539	0.46	69	0.00
45	S	SURR12DCAd4	20.0000	20.2622	-1.31	72	0.00
46	PT	Benzene	10.0000	10.7457	-7.46	75	0.00
47	PT	12dichlorota	10.0000	10.1373	-1.37	75	0.00
48	T	TAME	10.0000	10.0615	-0.62	71	0.00

49	PT	trichloroete	10.0000	9.5239	4.76	70	0.00
50	PT	methylcyclohexane	10.0000	10.7947	-7.95	80	0.00
51	PT	12dicloropra	10.0000	10.2879	-2.88	81	0.00
52	T	23Dicl1propene	10.0000	10.0773	-0.77	78	0.00
53	T	Dibromometha	10.0000	9.8781	1.22	80	0.00
54	T	methylmethacrylate	10.0000	9.9661	0.34	78	0.00
55	T	14dioxane	500.0000	483.5205	3.30	80	0.00
56	PT	Bromodiclrma	10.0000	9.8839	1.16	78	0.00
57	T	2Nitropropane	100.0000	105.8895	-5.89	80	0.00
58	T	2CLEVE	50.0000	24.3523	51.30#	33	0.00
59	PT	c13dicloproe	10.0000	9.4985	5.02	71	0.00
60	PT	4Meth2Pentan	100.0000	120.5819	-20.58#	86	0.00
61	S	SURRd8Tolule	20.0000	20.4846	-2.42	79	0.00
62	PT	Toluene	10.0000	10.0521	-0.52	75	0.00
63	PT	t13Dicloprop	10.0000	9.4350	5.65	74	0.00
64	T	ethylmethacrylate	20.0000	20.8273	-4.14	77	0.00
65	PT	112Triclotha	10.0000	9.9196	0.80	77	0.00
66	PT	Tetrachlorte	10.0000	10.1140	-1.14	76	0.00
67	T	13Diclorpropa	10.0000	10.0182	-0.18	77	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	77	0.00
69	PT	2Hexanone	100.0000	114.6524	-14.65	86	0.00
70	PT	Clorodibrmta	10.0000	8.9958	10.04	72	0.00
71	PT	12Dibrometha	10.0000	9.5250	4.75	79	0.00
72	PT	Chlorobenzen	10.0000	10.2365	-2.36	79	0.00
73	T	1Clhexane	10.0000	10.6535	-6.53	78	0.00
74	T	1112Tetclota	10.0000	9.5182	4.82	75	0.00
75	PT	Ethylbenzene	10.0000	10.5285	-5.28	78	0.00
76	PT	m p-Xylene	20.0000	20.9900	-4.95	77	0.00
77	PT	o-Xylene	10.0000	10.0168	-0.17	79	0.00
78	PT	Styrene	10.0000	9.9267	0.73	77	0.00
79	PT	Bromoform	10.0000	7.7971	22.03#	63	0.00
80	PT	Isopropylben	10.0000	10.4184	-4.18	77	0.00
81	T	cyclohexanone	200.0000	188.5699	5.72	79	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	79	0.00
83	S	SURR4BrFBenz	20.0000	19.7251	1.37	77	0.00
84	T	Bromobenzene	10.0000	9.4404	5.60	73	0.00
85	PT	1122Tetrclta	10.0000	10.0230	-0.23	76	0.00
86	T	123Triclproa	10.0000	9.0169	9.83	72	0.00
87	T	14dichloro2butene	10.0000	8.2142	17.86	66	0.00
88	T	n-Propylbenz	10.0000	10.2727	-2.73	78	0.00
89	T	2chlorotolue	10.0000	10.4345	-4.34	81	0.00
90	T	4chlorotolue	10.0000	10.5429	-5.43	78	0.00
91	T	135Trimebenz	10.0000	10.2003	-2.00	77	0.00
92	T	tbutylbenzen	10.0000	10.2400	-2.40	78	0.00
93	T	124Trimetben	10.0000	10.3541	-3.54	77	0.00
94	T	sbutylbenzen	10.0000	10.7113	-7.11	78	0.00
95	PT	13Diclorbenz	10.0000	10.0401	-0.40	78	0.00
96	T	pIsopropylto	10.0000	10.4348	-4.35	79	0.00
97	PT	14dichlorobe	10.0000	9.7689	2.31	76	0.00
98	PT	12dichlorobe	10.0000	9.3710	6.29	74	0.00
99	T	nButylbenzen	10.0000	10.4604	-4.60	76	0.00
100	PT	12dibromo3cl	10.0000	8.5145	14.86	69	0.01
101	T	135Trichlorobenzene	10.0000	9.3054	6.95	76	0.00
102	PT	124Trichlobe	10.0000	9.3307	6.69	75	0.00
103	T	Hexachlorobu	10.0000	10.6860	-6.86	77	0.00
104	T	Naphthalene	10.0000	9.3510	6.49	75	0.00
105	T	123Trichlben	10.0000	9.1018	8.98	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W100516.M Fri Oct 07 12:36:48 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0616B\CCV-LCS1.D Vial: 2
Acq On : 6 Oct 2016 16:05 Operator: AGK-RLD
Sample : 131015,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 16:26:17 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1166124	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	904670	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	467576	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	288214	19.923 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 100 %		
45) SURR12DCAd4	7.07	102	76653	20.262 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 101 %		
61) SURRd8Tolule	9.51	98	1184274	20.485 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 102 %		
83) SURR4BrFBenz	13.04	95	484769	19.725 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 99 %		

Target Compounds					Qvalue
2) Dichlorodi	1.76	85	139184	10.0909 ug/L	99
3) Chloromethan	1.98	50	364587	11.3345 ug/L	98
4) VinylChlorid	2.14	62	246289	10.4719 ug/L	100
5) Bromomethane	2.59	94	73989	11.6690 ug/L	84
6) Chloroethane	2.74	64	169708	11.6320 ug/L	92
7) Dichloroflmethane	3.04	67	295031	10.2471 ug/L	96
8) Trichlorofma	3.13	101	220001	10.1378 ug/L	95
9) Ethylether	3.56	59	162795	10.3998 ug/L	95
10) dichlorotfluoroethan	3.56	67	176334	10.2599 ug/L	98
11) propyleneoxide	3.89	58	433577	92.0056 ug/L	94
12) Acrolein	3.67	56	333439	44.9157 ug/L	97
13) 11dichlorthe	3.83	96	141890	9.4511 ug/L	91
14) Trichlorotfluoroeth	3.88	101	272876	19.8338 ug/L	98
15) Acetone	3.89	43	1289905	104.1824 ug/L	98
16) Iodomethane	4.00	142	197537	19.4100 ug/L	99
17) Carbon Dislf	4.09	76	803149	20.9821 ug/L	100
18) allylchloride	4.31	41	497263	21.6331 ug/L	95
19) methylacetate	4.36	74	96034	10.3267 ug/L	96
20) Methylchlorid	4.47	84	159142	9.8036 ug/L #	86
21) tbutylalcohol	4.66	59	2670040	583.7460 ug/L	99
22) Acrylonitrile	4.76	53	601439	53.3138 ug/L	98
23) t12dichlorte	4.84	96	155260	9.7141 ug/L	96
24) MtBE	4.86	73	474529	10.2109 ug/L	98
25) Hexane	5.23	57	544167	21.9327 ug/L	98
26) 11dichlorota	5.35	63	311406	9.9808 ug/L	99
27) Vinylacetate	5.44	43	3808179	128.6731 ug/L	96
28) chloroprene	5.48	53	674294	23.0862 ug/L	93
29) Diisopether	5.51	45	633177	11.9733 ug/L	85
30) ETBE	5.96	59	577408	10.7302 ug/L	98
31) 22dichloropr	6.09	77	219514	9.5130 ug/L	99
32) c12dichlorte	6.08	96	181838	10.6871 ug/L	98
33) 2Butanone	6.09	72	427988	97.5860 ug/L	94
34) propionitrile	6.13	54	556882	108.9471 ug/L	98
35) Ethylacetate	6.21	88	59885	52.1207 ug/L #	94
36) methacrylonitrile	6.34	67	230491	19.9823 ug/L	92
37) Bromochlorma	6.37	128	64308	10.1153 ug/L #	85
38) Tetrahydofur	6.45	42	1156505	112.0328 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0616B\CCV-LCS1.D Vial: 2
Acq On : 6 Oct 2016 16:05 Operator: AGK-RLD
Sample : 131015,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 16:26:17 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	Chloroform	6.47	83	278064	10.1876 ug/L		99
40)	111trichlota	6.72	97	245568	9.9848 ug/L		98
42)	Cyclohexane	6.81	56	364576	10.9358 ug/L		93
43)	Carbtetraclo	6.94	119	183379	10.9117 ug/L		98
44)	11dicloprope	6.92	110	76427	9.9539 ug/L	#	89
46)	Benzene	7.17	78	670554	10.7457 ug/L		99
47)	12dichlorota	7.16	62	238529	10.1373 ug/L		99
48)	TAME	7.34	73	486181	10.0615 ug/L		98
49)	trichloroete	7.97	95	160074	9.5239 ug/L		98
50)	methylcyclohexane	8.24	83	296539	10.7947 ug/L		98
51)	12dicloropra	8.22	63	200633	10.2879 ug/L		99
52)	23Dicl1propene	8.29	75	259236	10.0773 ug/L		99
53)	Dibromometha	8.36	93	103362	9.8781 ug/L		90
54)	methylmethacrylate	8.40	69	178903	9.9661 ug/L		98
55)	14dioxane	8.42	88	106748	483.5205 ug/L		95
56)	Bromodiclrma	8.57	83	208424	9.8839 ug/L		96
57)	2Nitropropane	8.83	43	1068692	105.8895 ug/L		99
58)	2CLEVE	8.97	63	41228	24.3523 ug/L		90
59)	c13dicloproe	9.15	75	253393	9.4985 ug/L		97
60)	4Meth2Pentan	9.34	43	3059518	120.5819 ug/L		96
62)	Toluene	9.59	92	400312	10.0521 ug/L		96
63)	t13Dicloprop	9.86	75	227024	9.4350 ug/L		98
64)	ethylmethacrylate	10.00	69	551702	20.8273 ug/L		93
65)	112Triclotha	10.08	83	132842	9.9196 ug/L		98
66)	Tetrachlorte	10.32	166	150170	10.1140 ug/L		98
67)	13Diclorpropa	10.31	76	270413	10.0182 ug/L		99
69)	2Hexanone	10.43	43	2575871	114.6524 ug/L		96
70)	Clorodibrmta	10.60	129	139018	8.9958 ug/L		99
71)	12Dibrometha	10.76	107	160956	9.5250 ug/L		100
72)	Chlorobenzen	11.44	112	423444	10.2365 ug/L		98
73)	1Clhexane	11.44	91	246444	10.6535 ug/L		96
74)	1112Tetclota	11.56	131	137611	9.5182 ug/L		99
75)	Ethylbenzene	11.61	91	763572	10.5285 ug/L		98
76)	m p-Xylene	11.78	106	570421	20.9900 ug/L		96
77)	o-Xylene	12.32	106	279753	10.0168 ug/L		98
78)	Styrene	12.33	104	460233	9.9267 ug/L		99
79)	Bromoform	12.56	173	89275	7.7971 ug/L		99
80)	Isopropylben	12.85	105	654396	10.4184 ug/L		98
81)	cyclohexanone	12.93	55	237819	188.5699 ug/L		96
84)	Bromobenzene	13.25	156	156892	9.4404 ug/L		94
85)	1122Tetrclta	13.22	83	264292	10.0230 ug/L		97
86)	123Triclproa	13.28	75	311594	9.0169 ug/L		98
87)	14dichloro2butene	13.30	53	74382	8.2142 ug/L		95
88)	n-Propylbenz	13.43	91	860220	10.2727 ug/L		100
89)	2chlorotolue	13.54	91	510377	10.4345 ug/L		99
90)	4chlorotolue	13.69	91	586707	10.5429 ug/L		100
91)	135Trimebenz	13.69	105	564338	10.2003 ug/L		100
92)	tbutylbenzen	14.15	119	472228	10.2400 ug/L		99
93)	124Trimetben	14.22	105	573488	10.3541 ug/L		97
94)	sbutylbenzen	14.47	105	706707	10.7113 ug/L		99
95)	13Diclorbenz	14.60	146	282662	10.0401 ug/L		98
96)	pIsopropylto	14.69	119	559901	10.4348 ug/L		99
97)	14dichlorobe	14.73	146	282133	9.7689 ug/L		99
98)	12dichlorobe	15.27	146	255470	9.3710 ug/L		99
99)	nButylbenzen	15.28	91	545186	10.4604 ug/L		99
100)	12dibromo3cl	16.37	157	60750	8.5145 ug/L		97
101)	135Trichlorobenzene	16.71	180	180418	9.3054 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0616B\CCV-LCS1.D Vial: 2
Acq On : 6 Oct 2016 16:05 Operator: AGK-RLD
Sample : 131015,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 16:26:17 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 124Trichlobe	17.53	180	156427	9.3307	ug/L	99
103) Hexachlorobu	17.78	225	67178	10.6860	ug/L	95
104) Naphthalene	17.82	128	602542	9.3510	ug/L	98
105) 123Trichlben	18.14	180	143986	9.1018	ug/L	96

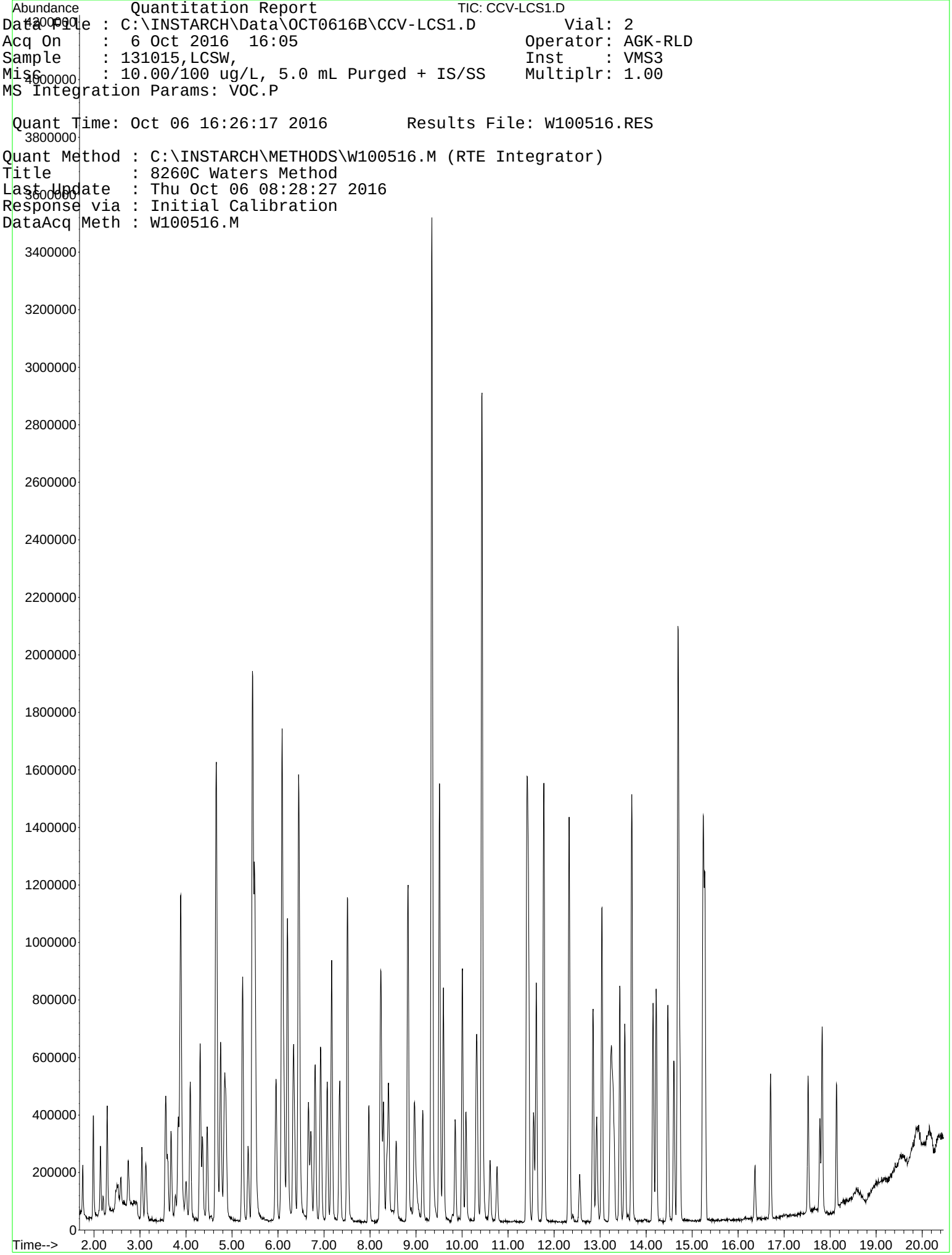
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0616B\CCV-LCS1.D Vial: 2
Acq On : 6 Oct 2016 16:05 Operator: AGK-RLD
Sample : 131015,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 06 16:26:17 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



BFB

Data File : C:\INSTARCH\Data\OCT0716\BFB1.D Vial: 1
Acq On : 7 Oct 2016 9:36 Operator: AGK-RLD
Sample : 131076,BFB, Inst : VMS3
Misc : 25 ng Inj. Multiplr: 1.00
Integration File: VOC.P

Method : C:\INSTARCH\METHODS\W100516.M
Title : 8260C Waters Method

Spectrum Information: Average of 4.417 to 4.429 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.5	24378	PASS
75	95	30	60	51.6	45626	PASS
95	95	100	100	100.0	88493	PASS
96	95	5	9	7.5	6610	PASS
173	174	0.00	2	0.7	447	PASS
174	95	50	100	73.9	65394	PASS
175	174	5	9	8.0	5259	PASS
176	174	95	101	96.2	62925	PASS
177	176	5	9	7.3	4597	PASS

W100516.M Fri Oct 07 15:49:48 2016

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\OCT0716\CCV-LCS1.D Vial: 3
Acq On : 7 Oct 2016 10:25 Operator: AGK-RLD
Sample : 131076,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 07 10:46:28 2016

Quant Method : C:\INSTARCH\METHODS\W100516.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W100516.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	68	0.00
2	PT	Dichlorodi	0.2366	0.2278	3.72	64	0.00
3	PT	Chloromethan	0.5902	0.6094	-3.25	73	0.00
4	PT	VinylChlorid	0.4034	0.3902	3.27	65	0.00
5	PT	Bromomethane	0.1087	0.1103	-1.47	78	-0.01
6	PT	Chloroethane	0.2502	0.2695	-7.71	75	0.00
7	T	Dichloroflmethane	0.4938	0.4690	5.02	66	0.00
8	PT	Trichlorofma	0.3722	0.3413	8.30	64	0.00
9	T	Ethylether	0.2685	0.2614	2.64	69	0.00
10	T	dichlorotfluoroethan	0.2948	0.2776	5.83	66	0.00
11	T	propyleneoxide	0.0808	0.0784	2.97	70	0.00
12	T	Acrolein	0.1273	0.1218	4.32	69	0.00
13	PT	11dichlorthe	0.2575	0.2243	12.89	61	0.00
14	PT	Trichlorotfluoroeth	0.2360	0.2143	9.19	61	0.00
15	PT	Acetone	0.2123	0.2385	-12.34	75	0.00
16	T	Iodomethane	0.1911	0.1537	19.57	64	0.00
17	PT	Carbon Dislf	0.6565	0.6364	3.06	64	0.00
18	T	allylchloride	0.3747	0.4129	-10.19	70	0.00
19	PT	methylacetate	0.1595	0.1542	3.32	67	0.00
20	PT	Methylchlorid	0.2988	0.2522	15.60	62	0.00
21	T	tbutylalcohol	0.0867	0.1004	-15.80	84	0.00
22	T	Acrylonitrile	0.1935	0.2073	-7.13	76	0.00
23	PT	t12dichlorte	0.2741	0.2456	10.40	66	0.00
24	PT	MtBE	0.7970	0.7375	7.47	67	0.00
25	T	Hexane	0.4255	0.4296	-0.96	68	0.00
26	PT	11dichlorota	0.5351	0.5155	3.66	70	0.00
27	T	Vinylacetate	0.5426	0.5769	-6.32	71	0.00
28	T	chloroprene	0.5009	0.5281	-5.43	72	0.00
29	T	Diisopether	0.9070	1.0618	-17.07	83	0.00
30	T	ETBE	0.9229	0.9508	-3.02	72	0.00
31	T	22dichloropr	0.3958	0.3844	2.88	68	0.00
32	PT	c12dichlorte	0.2918	0.2670	8.50	64	0.00
33	PT	2Butanone	0.0752	0.0739#	1.73	72	0.00
34	T	propionitrile	0.0877	0.0972	-10.83	82	0.00
35	T	Ethylacetate	0.0197	0.0176#	10.66	66	0.00
36	T	methacrylonitrile	0.1978	0.1891	4.40	69	0.00
37	T	Bromochlorma	0.1090	0.0951	12.75	61	0.00
38	T	Tetrahydofur	0.1770	0.2086	-17.85	83	0.00
39	PT	Chloroform	0.4681	0.4253	9.14	66	0.00
40	PT	111trichlota	0.4218	0.3891	7.75	67	0.00
41	S	SURRDibrflma	0.2481	0.2298	7.38	65	0.00
42	PT	Cyclohexane	0.5718	0.5884	-2.90	69	0.00
43	PT	Carbtetraclo	0.2882	0.2964	-2.85	69	0.00
44	T	11dicloprope	0.1317	0.1276	3.11	63	0.00
45	S	SURR12DCAd4	0.0649	0.0602	7.24	62	0.00
46	PT	Benzene	1.0702	1.0653	0.46	65	0.00
47	PT	12dichlorota	0.4036	0.3837	4.93	66	0.00
48	T	TAME	0.8287	0.8436	-1.80	67	0.00

49	PT	trichloroete	0.2883	0.2898	-0.52	69	0.00
50	PT	methylcyclohexane	0.4711	0.5084	-7.92	75	0.00
51	PT	12dicloropra	0.3345	0.3422	-2.30	75	0.00
52	T	23Dicl1propene	0.4412	0.4582	-3.85	76	0.00
53	T	Dibromometha	0.1795	0.1724	3.96	73	0.00
54	T	methylmethacrylate	0.3079	0.3137	-1.88	74	0.00
55	T	14dioxane	0.0045	0.0048#	-6.67	99	0.00
56	PT	Bromodiclrma	0.3617	0.3505	3.10	72	0.00
57	T	2Nitropropane	0.1690	0.1963	-16.15	81	0.00
58	T	2CLEVE	0.0318	0.0140#	55.97#	30#	0.00
59	PT	c13dicloproe	0.4575	0.4525	1.09	70	0.00
60	PT	4Meth2Pentan	0.4627	0.5603	-21.09#	86	0.00
61	S	SURRd8Tolule	0.9915	1.0524	-6.14	77	0.00
62	PT	Toluene	0.6830	0.7285	-6.66	75	0.00
63	PT	t13Dicloprop	0.4127	0.3687	10.66	66	0.00
64	T	ethylmethacrylate	0.4543	0.4517	0.57	69	0.00
65	PT	112Triclotha	0.2297	0.2112	8.05	67	0.00
66	PT	Tetrachlorte	0.2547	0.2753	-8.09	76	0.00
67	T	13Diclorpropa	0.4629	0.4676	-1.02	73	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	74	0.00
69	PT	2Hexanone	0.5142	0.5975	-16.20	87	0.00
70	PT	Clorodibrmta	0.3416	0.3103	9.16	70	0.00
71	PT	12Dibrometha	0.3736	0.3456	7.49	74	0.00
72	PT	Chlorobenzen	0.9145	0.8788	3.90	72	0.00
73	T	1Clhexane	0.5114	0.4912	3.95	68	0.00
74	T	1112Tetclota	0.3196	0.3052	4.51	72	0.00
75	PT	Ethylbenzene	1.6033	1.5753	1.75	70	0.00
76	PT	m p-Xylene	0.6008	0.5843	2.75	69	0.00
77	PT	o-Xylene	0.6174	0.5279	14.50	65	0.00
78	PT	Styrene	1.0250	0.9052	11.69	66	0.00
79	PT	Bromoform	0.2531	0.1917	24.26#	59	0.00
80	PT	Isopropylben	1.3886	1.2985	6.49	67	0.00
81	T	cyclohexanone	0.0305	0.0311	-1.97	90	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	69	0.00
83	S	SURR4BrFBenz	1.0512	1.0400	1.07	68	0.00
84	T	Bromobenzene	0.7109	0.6755	4.98	64	-0.01
85	PT	1122Tetrclta	1.1279	1.1291	-0.11	67	0.00
86	T	123Triclproa	1.4781	1.3577	8.15	64	0.00
87	T	14dichloro2butene	0.3873	0.3194	17.53	58	0.00
88	T	n-Propylbenz	3.5818	3.6633	-2.28	68	0.00
89	T	2chlorotolue	2.0922	2.0852	0.33	68	0.00
90	T	4chlorotolue	2.3803	2.3962	-0.67	65	0.00
91	T	135Trimebenz	2.3665	2.3875	-0.89	66	0.00
92	T	tbutylbenzen	1.9725	1.9632	0.47	67	0.00
93	T	124Trimetben	2.3691	2.3919	-0.96	66	0.00
94	T	sbutylbenzen	2.8221	3.0021	-6.38	68	0.00
95	PT	13Diclorbenz	1.2042	1.1716	2.71	66	0.00
96	T	pIsopropylto	2.2951	2.3315	-1.59	67	0.00
97	PT	14dichlorobe	1.2353	1.2303	0.40	68	0.00
98	PT	12dichlorobe	1.1661	1.1225	3.74	67	0.00
99	T	nButylbenzen	2.2293	2.3216	-4.14	67	0.00
100	PT	12dibromo3cl	0.3052	0.2573	15.69	60	0.00
101	T	135Trichlorobenzene	0.8293	0.7778	6.21	67	0.00
102	PT	124Trichlobe	0.7171	0.7211	-0.56	71	0.00
103	T	Hexachlorobu	0.2689	0.3071	-14.21	73	0.00
104	T	Naphthalene	2.7562	2.6011	5.63	66	0.00
105	T	123Trichlben	0.6767	0.6441	4.82	68	0.00

(#) = Out of Range SPCC's out = 1 CCC's out = 0

W100516.M Fri Oct 07 15:51:05 2016

Evaluate Continuing Calibration Report

Data File : C:\INSTARCH\Data\OCT0716\CCV-LCS1.D Vial: 3
Acq On : 7 Oct 2016 10:25 Operator: AGK-RLD
Sample : 131076,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 07 10:46:28 2016

Quant Method : C:\INSTARCH\METHODS\W100516.M
Quant Title : 8260C Waters Method
Response via : Initial Calibration
DataAcq Meth:W100516.M

Min. RRF : 0.030 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	20.0000	20.0000	0.00	68	0.00
2	PT	Dichlorodi	10.0000	9.6276	3.72	64	0.00
3	PT	Chloromethan	10.0000	11.0325	-10.33	73	0.00
4	PT	VinylChlorid	10.0000	9.6730	3.27	65	0.00
5	PT	Bromomethane	10.0000	10.1416	-1.42	78	-0.01
6	PT	Chloroethane	10.0000	10.7693	-7.69	75	0.00
7	T	Dichloroflmethane	10.0000	9.4969	5.03	66	0.00
8	PT	Trichlorofma	10.0000	9.1696	8.30	64	0.00
9	T	Ethylether	10.0000	9.7364	2.64	69	0.00
10	T	dichlorotfluoroethan	10.0000	9.4189	5.81	66	0.00
11	T	propyleneoxide	100.0000	96.9498	3.05	70	0.00
12	T	Acrolein	50.0000	47.8221	4.36	69	0.00
13	PT	11dichlorthe	10.0000	8.7101	12.90	61	0.00
14	PT	Trichlorotfluoroeth	20.0000	18.1602	9.20	61	0.00
15	PT	Acetone	100.0000	112.2982	-12.30	75	0.00
16	T	Iodomethane	20.0000	17.6416	11.79	64	0.00
17	PT	Carbon Dislf	20.0000	19.3875	3.06	64	0.00
18	T	allylchloride	20.0000	20.9246	-4.62	70	0.00
19	PT	methylacetate	10.0000	9.6657	3.34	67	0.00
20	PT	Methylchlorid	10.0000	9.0201	9.80	62	0.00
21	T	tbutylalcohol	500.0000	652.0650	-30.41#	84	0.00
22	T	Acrylonitrile	50.0000	53.5705	-7.14	76	0.00
23	PT	t12dichlorte	10.0000	8.9588	10.41	66	0.00
24	PT	MtBE	10.0000	9.2532	7.47	67	0.00
25	T	Hexane	20.0000	20.1931	-0.97	68	0.00
26	PT	11dichlorota	10.0000	9.6338	3.66	70	0.00
27	T	Vinylacetate	100.0000	110.6919	-10.69	71	0.00
28	T	chloroprene	20.0000	21.0855	-5.43	72	0.00
29	T	Diisopether	10.0000	11.7073	-17.07	83	0.00
30	T	ETBE	10.0000	10.3027	-3.03	72	0.00
31	T	22dichloropr	10.0000	9.7134	2.87	68	0.00
32	PT	c12dichlorte	10.0000	9.1481	8.52	64	0.00
33	PT	2Butanone	100.0000	98.2460	1.75	72	0.00
34	T	propionitrile	100.0000	110.9014	-10.90	82	0.00
35	T	Ethylacetate	50.0000	44.6966	10.61	66	0.00
36	T	methacrylonitrile	20.0000	19.1214	4.39	69	0.00
37	T	Bromochlorma	10.0000	8.7221	12.78	61	0.00
38	T	Tetrahydofur	100.0000	117.8246	-17.82	83	0.00
39	PT	Chloroform	10.0000	9.0845	9.15	66	0.00
40	PT	111trichlota	10.0000	9.2253	7.75	67	0.00
41	S	SURRDibrflma	20.0000	18.5260	7.37	65	0.00
42	PT	Cyclohexane	10.0000	10.2905	-2.90	69	0.00
43	PT	Carbtetraclo	10.0000	10.2828	-2.83	69	0.00
44	T	11dicloprope	10.0000	9.6887	3.11	63	0.00
45	S	SURR12DCAd4	20.0000	18.5501	7.25	62	0.00
46	PT	Benzene	10.0000	9.9540	0.46	65	0.00
47	PT	12dichlorota	10.0000	9.5078	4.92	66	0.00
48	T	TAME	10.0000	10.1788	-1.79	67	0.00

49	PT	trichloroete	10.0000	10.0536	-0.54	69	0.00
50	PT	methylcyclohexane	10.0000	10.7903	-7.90	75	0.00
51	PT	12dicloropra	10.0000	10.2320	-2.32	75	0.00
52	T	23Dicl1propene	10.0000	10.3863	-3.86	76	0.00
53	T	Dibromometha	10.0000	9.6081	3.92	73	0.00
54	T	methylmethacrylate	10.0000	10.1880	-1.88	74	0.00
55	T	14dioxane	500.0000	642.1152	-28.42#	99	0.00
56	PT	Bromodiclrma	10.0000	9.6925	3.07	72	0.00
57	T	2Nitropropane	100.0000	113.8002	-13.80	81	0.00
58	T	2CLEVE	50.0000	24.1748	51.65#	30	0.00
59	PT	c13dicloproe	10.0000	9.8909	1.09	70	0.00
60	PT	4Meth2Pentan	100.0000	130.5798	-30.58#	86	0.00
61	S	SURRd8Tolule	20.0000	21.2270	-6.14	77	0.00
62	PT	Toluene	10.0000	10.6654	-6.65	75	0.00
63	PT	t13Dicloprop	10.0000	8.9350	10.65	66	0.00
64	T	ethylmethacrylate	20.0000	19.8833	0.58	69	0.00
65	PT	112Triclotha	10.0000	9.1947	8.05	67	0.00
66	PT	Tetrachlorte	10.0000	10.8118	-8.12	76	0.00
67	T	13Diclorpropa	10.0000	10.1009	-1.01	73	0.00
68	I	d5-CHLOROBENZENE**ISTD**	20.0000	20.0000	0.00	74	0.00
69	PT	2Hexanone	100.0000	121.4028	-21.40#	87	0.00
70	PT	Clorodibrmta	10.0000	9.0815	9.18	70	0.00
71	PT	12Dibrometha	10.0000	9.2514	7.49	74	0.00
72	PT	Chlorobenzen	10.0000	9.6094	3.91	72	0.00
73	T	1Clhexane	10.0000	9.6059	3.94	68	0.00
74	T	1112Tetclota	10.0000	9.5489	4.51	72	0.00
75	PT	Ethylbenzene	10.0000	9.8250	1.75	70	0.00
76	PT	m p-Xylene	20.0000	19.4501	2.75	69	0.00
77	PT	o-Xylene	10.0000	8.5497	14.50	65	0.00
78	PT	Styrene	10.0000	8.8317	11.68	66	0.00
79	PT	Bromoform	10.0000	7.5738	24.26#	59	0.00
80	PT	Isopropylben	10.0000	9.3509	6.49	67	0.00
81	T	cyclohexanone	200.0000	223.2748	-11.64	90	0.00
82	I	d4-1,4-DICHLOROBENZENE**IS	20.0000	20.0000	0.00	69	0.00
83	S	SURR4BrFBenz	20.0000	19.7858	1.07	68	0.00
84	T	Bromobenzene	10.0000	9.5023	4.98	64	-0.01
85	PT	1122Tetrclta	10.0000	10.0110	-0.11	67	0.00
86	T	123Triclproa	10.0000	9.1852	8.15	64	0.00
87	T	14dichloro2butene	10.0000	8.2467	17.53	58	0.00
88	T	n-Propylbenz	10.0000	10.2274	-2.27	68	0.00
89	T	2chlorotolue	10.0000	9.9667	0.33	68	0.00
90	T	4chlorotolue	10.0000	10.0668	-0.67	65	0.00
91	T	135Trimebenz	10.0000	10.0889	-0.89	66	0.00
92	T	tbutylbenzen	10.0000	9.9527	0.47	67	0.00
93	T	124Trimetben	10.0000	10.0963	-0.96	66	0.00
94	T	sbutylbenzen	10.0000	10.6376	-6.38	68	0.00
95	PT	13Diclorbenz	10.0000	9.7294	2.71	66	0.00
96	T	pIsopropylto	10.0000	10.1583	-1.58	67	0.00
97	PT	14dichlorobe	10.0000	9.9591	0.41	68	0.00
98	PT	12dichlorobe	10.0000	9.6263	3.74	67	0.00
99	T	nButylbenzen	10.0000	10.4137	-4.14	67	0.00
100	PT	12dibromo3cl	10.0000	8.4324	15.68	60	0.00
101	T	135Trichlorobenzene	10.0000	9.3782	6.22	67	0.00
102	PT	124Trichlobe	10.0000	10.0560	-0.56	71	0.00
103	T	Hexachlorobu	10.0000	11.4217	-14.22	73	0.00
104	T	Naphthalene	10.0000	9.4374	5.63	66	0.00
105	T	123Trichlben	10.0000	9.5192	4.81	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

W100516.M Fri Oct 07 15:51:18 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0716\CCV-LCS1.D Vial: 3
Acq On : 7 Oct 2016 10:25 Operator: AGK-RLD
Sample : 131076,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 10:46:28 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.51	96	1091962	20.00 ug/L	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.41	117	872392	20.00 ug/L	0.00 NA%
82) d4-1,4-DICHLOROBENZENE**IS	14.70	152	410479	20.00 ug/L	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.66	113	250956	18.526 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 93 %		
45) SURR12DCAd4	7.08	102	65713	18.550 ug/L	0.00
Spiked Amount 20.000	Range 89 - 112		Recovery = 93 %		
61) SURRd8Tolule	9.51	98	1149145	21.227 ug/L	0.00
Spiked Amount 20.000	Range 88 - 115		Recovery = 106 %		
83) SURR4BrFBenz	13.04	95	426882	19.786 ug/L	0.00
Spiked Amount 20.000	Range 80 - 125		Recovery = 99 %		

Target Compounds

					Qvalue
2) Dichlorodi	1.76	85	124349	9.6276 ug/L	99
3) Chloromethan	1.99	50	332738	11.0325 ug/L	97
4) VinylChlorid	2.15	62	213031	9.6730 ug/L	96
5) Bromomethane	2.58	94	60215	10.1416 ug/L	87
6) Chloroethane	2.75	64	147129	10.7693 ug/L	99
7) Dichloroflmethane	3.04	67	256043	9.4969 ug/L	98
8) Trichlorofma	3.13	101	186336	9.1696 ug/L	95
9) Ethylether	3.56	59	142718	9.7364 ug/L	92
10) dichlorotfluoroethan	3.56	67	151585	9.4189 ug/L	96
11) propyleneoxide	3.89	58	427821	96.9498 ug/L	91
12) Acrolein	3.68	56	332437	47.8221 ug/L	96
13) 11dichlorthe	3.83	96	122449	8.7101 ug/L	89
14) Trichlorotfluoroeth	3.88	101	233961	18.1602 ug/L	98
15) Acetone	3.89	43	1301963	112.2982 ug/L	96
16) Iodomethane	4.00	142	167837	17.6416 ug/L	96
17) Carbon Dislf	4.10	76	694915	19.3875 ug/L	100
18) allylchloride	4.31	41	450857	20.9246 ug/L	97
19) methylacetate	4.36	74	84170	9.6657 ug/L	93
20) Methylchlorid	4.46	84	137701	9.0201 ug/L #	85
21) tbutylalcohol	4.66	59	2740184	652.0650 ug/L	97
22) Acrylonitrile	4.76	53	565901	53.5705 ug/L	98
23) t12dichlorte	4.84	96	134081	8.9588 ug/L	96
24) MtBE	4.87	73	402673	9.2532 ug/L	96
25) Hexane	5.23	57	469144	20.1931 ug/L	99
26) 11dichlorota	5.35	63	281463	9.6338 ug/L	97
27) Vinylacetate	5.45	43	3149579	110.6919 ug/L	94
28) chloroprene	5.49	53	576691	21.0855 ug/L	94
29) Diisopether	5.51	45	579738	11.7073 ug/L	83
30) ETBE	5.96	59	519146	10.3027 ug/L	97
31) 22dichloropr	6.08	77	209883	9.7134 ug/L	98
32) c12dichlorte	6.08	96	145753	9.1481 ug/L	90
33) 2Butanone	6.10	72	403480	98.2460 ug/L	96
34) propionitrile	6.13	54	530820	110.9014 ug/L	96
35) Ethylacetate	6.21	88	48089	44.6966 ug/L #	81
36) methacrylonitrile	6.34	67	206534	19.1214 ug/L	87
37) Bromochlorma	6.36	128	51924	8.7221 ug/L #	75
38) Tetrahydofur	6.45	42	1138941	117.8246 ug/L	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0716\CCV-LCS1.D Vial: 3
Acq On : 7 Oct 2016 10:25 Operator: AGK-RLD
Sample : 131076,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 10:46:28 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
39)	Chloroform	6.48	83	232187	9.0845	ug/L	97
40)	111trichlota	6.72	97	212459	9.2253	ug/L	97
42)	Cyclohexane	6.81	56	321245	10.2905	ug/L	91
43)	Carbtetraclo	6.94	119	161820	10.2828	ug/L	96
44)	11dicloprope	6.92	110	69660	9.6887	ug/L	97
46)	Benzene	7.17	78	581647	9.9540	ug/L	98
47)	12dichlorota	7.16	62	209489	9.5078	ug/L	99
48)	TAME	7.34	73	460570	10.1788	ug/L	97
49)	trichloroete	7.97	95	158231	10.0536	ug/L	96
50)	methylcyclohexane	8.24	83	277569	10.7903	ug/L	96
51)	12dicloropra	8.22	63	186852	10.2320	ug/L	93
52)	23Dicl1propene	8.29	75	250195	10.3863	ug/L	98
53)	Dibromometha	8.37	93	94143	9.6081	ug/L	96
54)	methylmethacrylate	8.40	69	171255	10.1880	ug/L	100
55)	14dioxane	8.41	88	131699	642.1152	ug/L	98
56)	Bromodiclrma	8.57	83	191388	9.6925	ug/L	99
57)	2Nitropropane	8.82	43	1071898	113.8002	ug/L	99
58)	2CLEVE	8.96	63	38332	24.1748	ug/L	96
59)	c13dicloproe	9.14	75	247079	9.8909	ug/L	98
60)	4Meth2Pentan	9.34	43	3059325	130.5798	ug/L	95
62)	Toluene	9.60	92	397723	10.6654	ug/L	96
63)	t13Dicloprop	9.85	75	201321	8.9350	ug/L	99
64)	ethylmethacrylate	10.01	69	493199	19.8833	ug/L	91
65)	112Triclotha	10.09	83	115303	9.1947	ug/L	98
66)	Tetrachlorte	10.33	166	150322	10.8118	ug/L	98
67)	13Diclorpropa	10.31	76	255304	10.1009	ug/L	98
69)	2Hexanone	10.43	43	2606412	121.4028	ug/L	96
70)	Clorodibrmta	10.60	129	135335	9.0815	ug/L	95
71)	12Dibrometha	10.76	107	150754	9.2514	ug/L	99
72)	Chlorobenzen	11.45	112	383319	9.6094	ug/L	99
73)	1Clhexane	11.43	91	214281	9.6059	ug/L	91
74)	1112Tetclota	11.56	131	133129	9.5489	ug/L	98
75)	Ethylbenzene	11.62	91	687124	9.8250	ug/L	100
76)	m p-Xylene	11.78	106	509714	19.4501	ug/L	99
77)	o-Xylene	12.32	106	230261	8.5497	ug/L	96
78)	Styrene	12.33	104	394855	8.8317	ug/L	99
79)	Bromoform	12.56	173	83625	7.5738	ug/L	98
80)	Isopropylben	12.85	105	566390	9.3509	ug/L	100
81)	cyclohexanone	12.93	55	271513	223.2748	ug/L	92
84)	Bromobenzene	13.24	156	138637	9.5023	ug/L	95
85)	1122Tetrclta	13.22	83	231740	10.0110	ug/L	99
86)	123Triclproa	13.28	75	278650	9.1852	ug/L	99
87)	14dichloro2butene	13.31	53	65557	8.2467	ug/L	89
88)	n-Propylbenz	13.43	91	751848	10.2274	ug/L	98
89)	2chlorotolue	13.54	91	427965	9.9667	ug/L	99
90)	4chlorotolue	13.69	91	491800	10.0668	ug/L	99
91)	135Trimebenz	13.69	105	490014	10.0889	ug/L	99
92)	tbutylbenzen	14.15	119	402932	9.9527	ug/L	99
93)	124Trimetben	14.22	105	490922	10.0963	ug/L	100
94)	sbutylbenzen	14.47	105	616143	10.6376	ug/L	99
95)	13Diclorbenz	14.61	146	240466	9.7294	ug/L	99
96)	pIsopropylto	14.69	119	478508	10.1583	ug/L	98
97)	14dichlorobe	14.73	146	252504	9.9591	ug/L	100
98)	12dichlorobe	15.26	146	230384	9.6263	ug/L	98
99)	nButylbenzen	15.28	91	476475	10.4137	ug/L	100
100)	12dibromo3cl	16.36	157	52817	8.4324	ug/L	93
101)	135Trichlorobenzene	16.71	180	159627	9.3782	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0716\CCV-LCS1.D Vial: 3
Acq On : 7 Oct 2016 10:25 Operator: AGK-RLD
Sample : 131076,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 10:46:28 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.53	180	147999	10.0560 ug/L	97
103) Hexachlorobu	17.78	225	63035	11.4217 ug/L	95
104) Naphthalene	17.82	128	533852	9.4374 ug/L	98
105) 123Trichlben	18.14	180	132200	9.5192 ug/L	97

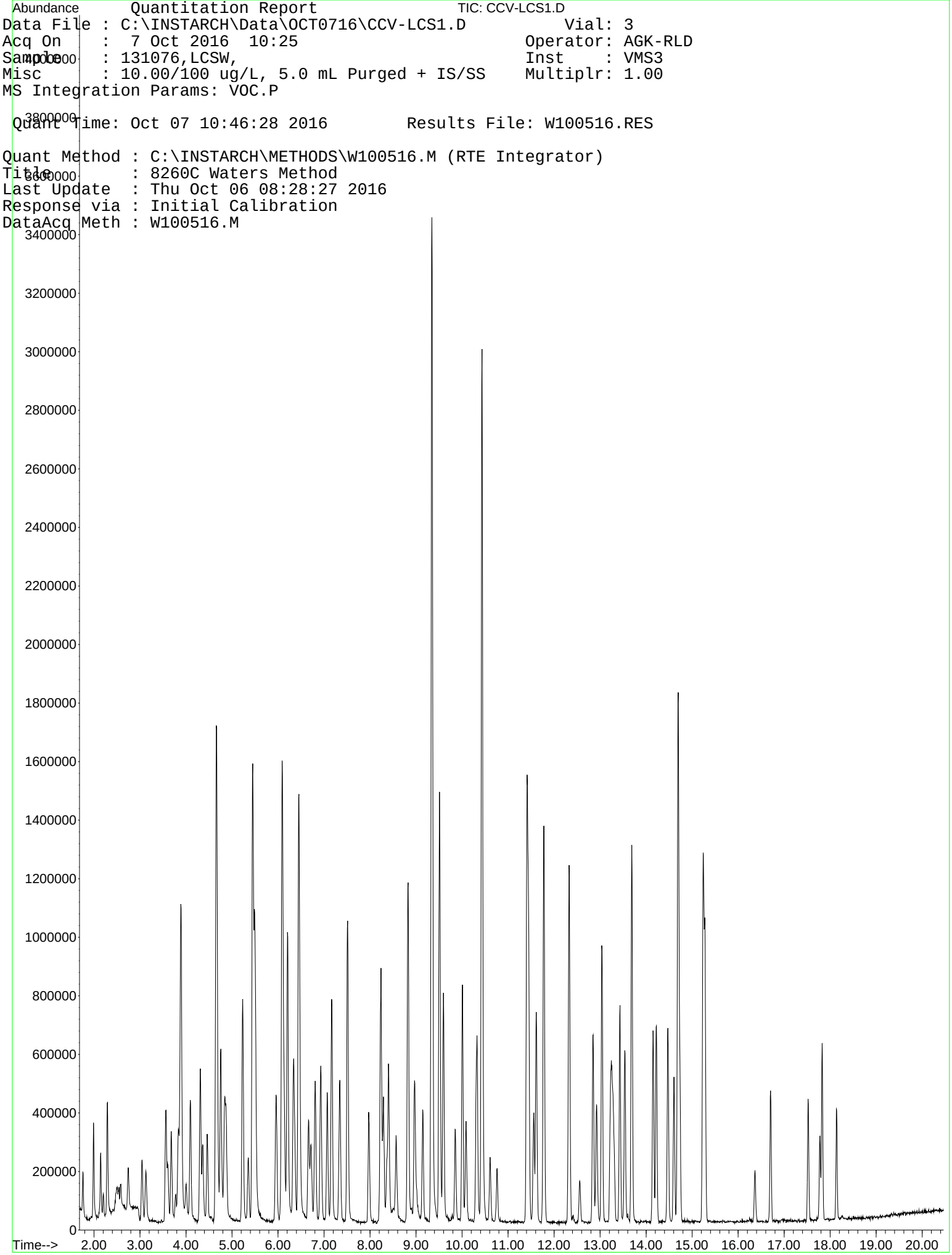
(#) = qualifier out of range (m) = manual integration
CCV-LCS1.D W100516.M Fri Oct 07 15:50:55 2016

Quantitation Report

Data File : C:\INSTARCH\Data\OCT0716\CCV-LCS1.D Vial: 3
Acq On : 7 Oct 2016 10:25 Operator: AGK-RLD
Sample : 131076,LCSW, Inst : VMS3
Misc : 10.00/100 ug/L, 5.0 mL Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC.P

Quant Time: Oct 07 10:46:28 2016 Results File: W100516.RES

Quant Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Last Update : Thu Oct 06 08:28:27 2016
Response via : Initial Calibration
DataAcq Meth : W100516.M



Data File : C:\Instarch\Data\OCT1016\BFB1.D Vial: 1
Acq On : 10 Oct 2016 7:49 Operator: RLD-AGK
Sample : 131088,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS092116.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.767 to 4.786 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	23928	PASS
75	95	30	60	48.2	48248	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	6.7	6732	PASS
173	174	0.00	2	0.3	298	PASS
174	95	50	100	93.6	93578	PASS
175	174	5	9	8.8	8191	PASS
176	174	95	101	100.0	93599	PASS
177	176	5	9	7.1	6645	PASS

PS092116.M Tue Oct 11 08:19:34 2016

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\OCT1016\CCV1.D Vial: 3
Acq On : 10 Oct 2016 8:33 Operator: RLD-AGK
Sample : 131088,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 10 08:54:29 2016

Quant Method : C:\INSTARCH\METHODS\PS092116.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS092116.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	77	0.00
2	T	Dichlorodi	0.2606	0.2518	3.38	77	0.00
3	PT	Chloromethan	0.2962	0.3028	-2.23	85	0.00
4	CT	VinylChlorid	0.2832	0.2901	-2.44	83	0.04
5	T	Bromomethane	0.0888	0.0720	18.92	68	0.00
6	T	Chloroethane	0.0962	0.0659	31.50#	56	0.04
7	T	dichloroflmethane	0.4154	0.4236	-1.97	83	0.02
8	T	Trichlorofma	0.3492	0.3625	-3.81	85	-0.03
9	T	Ethylether	0.1717	0.1778	-3.55	82	0.00
10	T	dichlorotfluoroethan	0.2444	0.2516	-2.95	82	0.00
11	T	propyleneoxide	0.0575	0.0378	34.26#	53	0.01
12	T	Acrolein	0.0471	0.0646	-37.15#	121	0.01
13	CT	11dichlorthe	0.2021	0.2143	-6.04	84	-0.01
14	T	Trichlorotfluoroeth	0.2061	0.2106	-2.18	81	-0.02
15	T	Acetone	0.1118	0.1305	-16.73	85	0.02
16	T	Iodomethane	0.1556	0.0509	67.29#	33#	-0.01
17	T	Carbon Dislf	0.4977	0.5077	-2.01	82	-0.01
18	T	allylchloride	0.3117	0.2872	7.86	74	0.00
19	T	methylacetate	0.1000	0.1172	-17.20	84	0.00
20	T	Methylchlorid	0.2652	0.2445	7.81	86	0.00
21	T	Acrylonitrile	0.1228	0.1356	-10.42	86	0.00
22	T	t12dichlorte	0.2211	0.2186	1.13	82	0.00
23	T	tbutylalcohol	0.0255	0.0314	-23.14#	98	0.04
24	T	MtBE	0.6078	0.5976	1.68	82	0.00
25	T	Hexane	0.3007	0.3051	-1.46	81	0.00
26	PT	11dichlorota	0.3887	0.3824	1.62	78	0.00
27	T	Vinylacetate	0.3588	0.4421	-23.22#	92	0.00
28	T	chloroprene	0.3583	0.3678	-2.65	80	0.00
29	T	Diisopether	0.7307	0.7544	-3.24	81	0.00
30	T	ETBE	0.5806	0.5804	0.03	82	0.00
31	T	22dichloropr	0.2575	0.2508	2.60	83	0.00
32	T	c12dichlorte	0.2398	0.2447	-2.04	84	0.00
33	T	2Butanone	0.0403	0.0439	-8.93	86	0.00
34	T	propionitrile	0.0467	0.0541	-15.85	92	0.00
35	T	Ethylacetate	0.0116	0.0126	-8.62	88	0.00
36	T	methacrylonitrile	0.1222	0.1280	-4.75	84	0.00
37	T	Bromochlorma	0.1111	0.1161	-4.50	86	0.00
38	T	Tetrahydofur	0.1098	0.1180	-7.47	86	0.00
39	CT	Chloroform	0.3936	0.4029	-2.36	86	0.00
40	T	111trichlota	0.3179	0.3018	5.06	80	0.00
41	S	SURRDibrflma	0.2504	0.2522	-0.72	78	0.00
42	T	Cyclohexane	0.3582	0.3729	-4.10	82	0.00
43	T	Carbtetraclo	0.2063	0.1988	3.64	83	0.00
44	T	11dicloprope	0.1022	0.1046	-2.35	82	0.00
45	S	SURR12DCAd4	0.0628	0.0621	1.11	75	0.00
46	T	Benzene	0.8813	0.8999	-2.11	81	0.00
47	T	12dichlorota	0.3132	0.3079	1.69	80	0.00
48	T	TAME	0.5535	0.5409	2.28	78	0.00

49	T	trichloroete	0.2435	0.2309	5.17	77	0.00
50	T	methylcyclohexane	0.3701	0.3690	0.30	81	0.00
51	CT	12dicloropra	0.2251	0.2214	1.64	79	0.00
52	T	23dicl1propene	0.3279	0.3301	-0.67	83	0.00
53	T	Dibromometha	0.1398	0.1441	-3.08	82	0.00
54	T	methylmethacrylate	0.1798	0.1796	0.11	85	0.00
55	T	14dioxane	0.0014	0.0034#	-142.86#	177	0.00
56	T	Bromodiclrma	0.2558	0.2284	10.71	72	0.00
57	T	2Nitropropane	0.0514	0.0488	5.06	88	0.00
58		2CLEVE	0.0897	0.0402	55.18#	36#	0.00
59	T	c13dicloproe	0.3041	0.2927	3.75	79	0.00
60	T	4Meth2Pentan	0.3242	0.3603	-11.14	86	0.00
61	S	SURRd8Tolule	0.9585	0.9761	-1.84	78	0.00
62	CT	Toluene	0.5419	0.5371	0.89	81	0.00
63	T	t13Dicloprop	0.2412	0.2310	4.23	80	0.00
64	T	ethylmethacrylate	0.2864	0.3012	-5.17	83	0.00
65	T	112Triclotha	0.1720	0.1769	-2.85	85	0.00
66	T	Tetrachlorte	0.2803	0.2928	-4.46	81	0.00
67	T	13Diclorpropa	0.3346	0.3395	-1.46	81	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	81	0.00
69	T	2Hexanone	0.3231	0.3523	-9.04	86	0.00
70	T	Clorodibrmta	0.2431	0.2218	8.76	81	0.00
71	T	12Dibrometha	0.2752	0.2554	7.19	78	0.00
72	PT	Chlorobenzen	0.7766	0.7447	4.11	79	0.00
73	T	1Clhexane	0.4151	0.3809	8.24	79	0.00
74	T	1112Tetclota	0.2359	0.2068	12.34	82	0.00
75	CT	Ethylbenzene	1.3286	1.3068	1.64	81	0.00
76	T	m p-Xylene	0.5060	0.4978	1.62	81	0.00
77	T	o-Xylene	0.4866	0.4757	2.24	81	0.00
78	T	Styrene	0.7875	0.7881	-0.08	81	0.00
79	PT	Bromoform	0.1783	0.1585	11.10	83	0.00
80	T	Isopropylben	1.2033	1.2016	0.14	83	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	85	0.00
82	T	cyclohexanone	0.0163	0.0241	-47.85#	121	0.00
83	S	SURR4BrFBenz	0.8283	0.7932	4.24	83	0.00
84	T	Bromobenzene	0.6879	0.6695	2.67	84	0.00
85	PT	1122Tetrclta	0.6757	0.7185	-6.33	93	0.00
86	T	123Triclproa	0.7958	0.7449	6.40	93	0.00
87	T	14dichloro2butene	0.1520	0.1239	18.49	79	0.00
88	T	n-Propylbenz	2.7141	2.6607	1.97	84	0.00
89	T	2chlorotolue	1.6295	1.5375	5.65	84	0.00
90	T	4chlorotolue	1.8331	1.7930	2.19	85	0.00
91	T	135Trimebenz	1.9176	1.8373	4.19	83	0.00
92	T	tbutylbenzen	1.6456	1.5630	5.02	82	0.00
93	T	124Trimetben	1.8795	1.8054	3.94	81	0.00
94	T	sbutylbenzen	2.4813	2.4642	0.69	86	0.00
95	T	13Diclorbenz	1.1730	1.1306	3.61	84	0.00
96	T	pIsopropylto	2.0424	2.0117	1.50	85	0.00
97	T	14dichlorobe	1.1751	1.1547	1.74	86	0.00
98	T	12dichlorobe	1.1205	1.1004	1.79	85	0.00
99	T	nButylbenzen	1.8579	1.8153	2.29	84	0.00
100	T	12dibromo3cl	0.1407	0.1299	7.68	90	0.00
101	T	135Trichlorobenzene	0.9575	0.9778	-2.12	91	0.00
102	T	124Trichlobe	0.7971	0.8036	-0.82	88	0.00
103	T	Hexachlorobu	0.4725	0.4736	-0.23	86	0.00
104	T	Naphthalene	1.7885	1.8260	-2.10	87	0.00
105	T	123Trichlben	0.7594	0.7707	-1.49	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS092116.M Tue Oct 11 08:21:00 2016

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\OCT1016\CCV1.D Vial: 3
Acq On : 10 Oct 2016 8:33 Operator: RLD-AGK
Sample : 131088,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 10 08:54:29 2016

Quant Method : C:\INSTARCH\METHODS\PS092116.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS092116.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	77	0.00
2	T	Dichlorodi	0.5000	0.4830	3.40	77	0.00
3	PT	Chloromethan	0.5000	0.5111	-2.22	85	0.00
4	CT	VinylChlorid	0.5000	0.5121	-2.42	83	0.04
5	T	Bromomethane	0.5000	0.4052	18.96	68	0.00
6	T	Chloroethane	0.5000	0.3423	31.54#	56	0.04
7	T	dichloroflmethane	0.5000	0.5098	-1.96	83	0.02
8	T	Trichlorofma	0.5000	0.5190	-3.80	85	-0.03
9	T	Ethylether	0.5000	0.5178	-3.56	82	0.00
10	T	dichlorotfluoroethan	0.5000	0.5146	-2.92	82	0.00
11	T	propyleneoxide	5.0000	3.2881	34.24#	53	0.01
12	T	Acrolein	2.5000	3.4290	-37.16#	121	0.01
13	CT	11dichlorthe	0.5000	0.5302	-6.04	84	-0.01
14	T	Trichlorotfluoroeth	1.0000	1.0221	-2.21	81	-0.02
15	T	Acetone	5.0000	5.8342	-16.68	85	0.02
16	T	Iodomethane	1.0000	0.4226	57.74#	33	-0.01
17	T	Carbon Dislf	1.0000	1.0201	-2.01	82	-0.01
18	T	allylchloride	1.0000	0.9214	7.86	74	0.00
19	T	methylacetate	0.5000	0.5858	-17.16	84	0.00
20	T	Methylchlorid	0.5000	0.5548	-10.96	86	0.00
21	T	Acrylonitrile	2.5000	2.7617	-10.47	86	0.00
22	T	t12dichlorte	0.5000	0.4946	1.08	82	0.00
23	T	tbutylalcohol	25.0000	30.7675	-23.07#	98	0.04
24	T	MtBE	0.5000	0.4916	1.68	82	0.00
25	T	Hexane	1.0000	1.0146	-1.46	81	0.00
26	PT	11dichlorota	0.5000	0.4919	1.62	78	0.00
27	T	Vinylacetate	5.0000	6.1610	-23.22#	92	0.00
28	T	chloroprene	1.0000	1.0265	-2.65	80	0.00
29	T	Diisopether	0.5000	0.5162	-3.24	81	0.00
30	T	ETBE	0.5000	0.4998	0.04	82	0.00
31	T	22dichloropr	0.5000	0.4870	2.60	83	0.00
32	T	c12dichlorte	0.5000	0.5104	-2.08	84	0.00
33	T	2Butanone	5.0000	5.4356	-8.71	86	0.00
34	T	propionitrile	5.0000	5.7857	-15.71	92	0.00
35	T	Ethylacetate	2.5000	2.7105	-8.42	88	0.00
36	T	methacrylonitrile	1.0000	1.0473	-4.73	84	0.00
37	T	Bromochlorma	0.5000	0.5226	-4.52	86	0.00
38	T	Tetrahydofur	5.0000	5.3726	-7.45	86	0.00
39	CT	Chloroform	0.5000	0.5118	-2.36	86	0.00
40	T	111trichlota	0.5000	0.4747	5.06	80	0.00
41	S	SURRDibrflma	1.0000	1.0071	-0.71	78	0.00
42	T	Cyclohexane	0.5000	0.5206	-4.12	82	0.00
43	T	Carbtetraclo	0.5000	0.4817	3.66	83	0.00
44	T	11dicloprope	0.5000	0.5117	-2.34	82	0.00
45	S	SURR12DCAd4	1.0000	0.9894	1.06	75	0.00
46	T	Benzene	0.5000	0.5106	-2.12	81	0.00
47	T	12dichlorota	0.5000	0.4915	1.70	80	0.00
48	T	TAME	0.5000	0.4887	2.26	78	0.00

49	T	trichloroete	0.5000	0.4742	5.16	77	0.00
50	T	methylcyclohexane	0.5000	0.4985	0.30	81	0.00
51	CT	12dicloropra	0.5000	0.4917	1.66	79	0.00
52	T	23dicl1propene	0.5000	0.5033	-0.66	83	0.00
53	T	Dibromometha	0.5000	0.5153	-3.06	82	0.00
54	T	methylmethacrylate	0.5000	0.4997	0.06	85	0.00
55	T	14dioxane	25.0000	64.1424	-156.57#	177	0.00
56	T	Bromodiclrma	0.5000	0.4465	10.70	72	0.00
57	T	2Nitropropane	5.0000	5.0404	-0.81	88	0.00
58		2CLEVE	2.5000	1.1197	55.21#	36	0.00
59	T	c13dicloproe	0.5000	0.4812	3.76	79	0.00
60	T	4Meth2Pentan	5.0000	5.5570	-11.14	86	0.00
61	S	SURRd8Tolule	1.0000	1.0184	-1.84	78	0.00
62	CT	Toluene	0.5000	0.4955	0.90	81	0.00
63	T	t13Dicloprop	0.5000	0.4790	4.20	80	0.00
64	T	ethylmethacrylate	1.0000	1.0518	-5.18	83	0.00
65	T	112Triclotha	0.5000	0.5144	-2.88	85	0.00
66	T	Tetrachlorte	0.5000	0.5223	-4.46	81	0.00
67	T	13Diclorpropa	0.5000	0.5074	-1.48	81	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	81	0.00
69	T	2Hexanone	5.0000	5.4530	-9.06	86	0.00
70	T	Clorodibrmta	0.5000	0.4563	8.74	81	0.00
71	T	12Dibrometha	0.5000	0.4639	7.22	78	0.00
72	PT	Chlorobenzen	0.5000	0.4795	4.10	79	0.00
73	T	1Clhexane	0.5000	0.4588	8.24	79	0.00
74	T	1112Tetclota	0.5000	0.4383	12.34	82	0.00
75	CT	Ethylbenzene	0.5000	0.4918	1.64	81	0.00
76	T	m p-Xylene	1.0000	0.9839	1.61	81	0.00
77	T	o-Xylene	0.5000	0.4888	2.24	81	0.00
78	T	Styrene	0.5000	0.5004	-0.08	81	0.00
79	PT	Bromoform	0.5000	0.4696	6.08	83	0.00
80	T	Isopropylben	0.5000	0.4993	0.14	83	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	85	0.00
82	T	cyclohexanone	10.0000	14.7590	-47.59#	121	0.00
83	S	SURR4BrFBenz	1.0000	0.9577	4.23	83	0.00
84	T	Bromobenzene	0.5000	0.4866	2.68	84	0.00
85	PT	1122Tetrclta	0.5000	0.5317	-6.34	93	0.00
86	T	123Triclproa	0.5000	0.4680	6.40	93	0.00
87	T	14dichloro2butene	0.5000	0.4076	18.48	79	0.00
88	T	n-Propylbenz	0.5000	0.4902	1.96	84	0.00
89	T	2chlorotolue	0.5000	0.4718	5.64	84	0.00
90	T	4chlorotolue	0.5000	0.4891	2.18	85	0.00
91	T	135Trimebenz	0.5000	0.4791	4.18	83	0.00
92	T	tbutylbenzen	0.5000	0.4749	5.02	82	0.00
93	T	124Trimetben	0.5000	0.4803	3.94	81	0.00
94	T	sbutylbenzen	0.5000	0.4966	0.68	86	0.00
95	T	13Diclorbenz	0.5000	0.4819	3.62	84	0.00
96	T	pIsopropylto	0.5000	0.4925	1.50	85	0.00
97	T	14dichlorobe	0.5000	0.4913	1.74	86	0.00
98	T	12dichlorobe	0.5000	0.4910	1.80	85	0.00
99	T	nButylbenzen	0.5000	0.4885	2.30	84	0.00
100	T	12dibromo3cl	0.5000	0.4891	2.18	90	0.00
101	T	135Trichlorobenzene	0.5000	0.5106	-2.12	91	0.00
102	T	124Trichlobe	0.5000	0.5041	-0.82	88	0.00
103	T	Hexachlorobu	0.5000	0.5012	-0.24	86	0.00
104	T	Naphthalene	0.5000	0.5105	-2.10	87	0.00
105	T	123Trichlben	0.5000	0.5075	-1.50	90	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS092116.M Tue Oct 11 08:21:30 2016

Quantitation Report

Data File : C:\Instarch\Data\OCT1016\CCV1.D Vial: 3
Acq On : 10 Oct 2016 8:33 Operator: RLD-AGK
Sample : 131088,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 10 08:54:29 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 01 09:13:08 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	959032	1.00	mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	758544	1.00	mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	442003	1.00	mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	241887	1.007	mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery = 101 %			
45) SURR12DCAd4	7.36	102	59560	0.989	mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery = 99 %			
61) SURRd8Tolule	9.79	98	936122	1.018	mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery = 102 %			
83) SURR4BrFBenz	13.36	95	350615	0.958	mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery = 96 %			

Target Compounds

						Qvalue
2) Dichlorodi	1.91	85	120720	0.4830	mg/kg	98
3) Chloromethan	2.15	50	145185	0.5111	mg/kg	99
4) VinylChlorid	2.33	62	139111	0.5121	mg/kg	96
5) Bromomethane	2.74	94	34504	0.4052	mg/kg	98
6) Chloroethane	2.92	64	31595	0.3423	mg/kg	95
7) dichloroflmethane	3.25	67	203113	0.5098	mg/kg	98
8) Trichlorofma	3.25	101	173827	0.5190	mg/kg	96
9) Ethylether	3.76	59	85267	0.5178	mg/kg	93
10) dichlorotfluoroethan	3.77	67	120632	0.5146	mg/kg	96
11) propyleneoxide	3.83	58	181377	3.2881	mg/kg	95
12) Acrolein	3.93	56	154891	3.4290	mg/kg	98
13) 11dichlorthe	4.01	96	102752	0.5302	mg/kg	96
14) Trichlorotfluoroeth	4.03	101	202015	1.0221	mg/kg	99
15) Acetone	4.17	43	625651	5.8342	mg/kg	99
16) Iodomethane	4.21	142	48837	0.4226	mg/kg	95
17) Carbon Dislf	4.28	76	486918	1.0201	mg/kg	99
18) allylchloride	4.53	41	275427	0.9214	mg/kg	96
19) methylacetate	4.61	74	56205	0.5858	mg/kg	97
20) Methylchlorid	4.70	84	117257	0.5548	mg/kg	98
21) Acrylonitrile	5.05	53	325136	2.7617	mg/kg	99
22) t12dichlorte	5.06	96	104845	0.4946	mg/kg	99
23) tbutylalcohol	4.97	59	751706	30.7675	mg/kg	97
24) MtBE	5.10	73	286542	0.4916	mg/kg	100
25) Hexane	5.43	57	292622	1.0146	mg/kg	98
26) 11dichlorota	5.61	63	183354	0.4919	mg/kg	98
27) Vinylacetate	5.70	43	2120016	6.1610	mg/kg	99
28) chloroprene	5.72	53	352720	1.0265	mg/kg	96
29) Diisopether	5.73	45	361736	0.5162	mg/kg#	78
30) ETBE	6.18	59	278289	0.4998	mg/kg	98
31) 22dichloropr	6.34	77	120280	0.4870	mg/kg	98
32) c12dichlorte	6.34	96	117359	0.5104	mg/kg	98
33) 2Butanone	6.38	72	210340	5.4356	mg/kg	97
34) propionitrile	6.45	54	259262	5.7857	mg/kg	99
35) Ethylacetate	6.46	88	30172	2.7105	mg/kg#	92
36) methacrylonitrile	6.64	67	122733	1.0473	mg/kg	97
37) Bromochlorma	6.64	128	55678	0.5226	mg/kg	96
38) Tetrahydofur	6.71	42	565621	5.3726	mg/kg	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT1016\CCV1.D Vial: 3
Acq On : 10 Oct 2016 8:33 Operator: RLD-AGK
Sample : 131088,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 10 08:54:29 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 01 09:13:08 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39) Chloroform	6.74	83	193178	0.5118 mg/kg	95
40) 111trichlota	6.96	97	144717	0.4747 mg/kg	98
42) Cyclohexane	7.04	56	178833	0.5206 mg/kg	99
43) Carbtetraclo	7.18	119	95311	0.4817 mg/kg	99
44) 11dicloprope	7.18	110	50174	0.5117 mg/kg	98
46) Benzene	7.43	78	431516	0.5106 mg/kg	99
47) 12dichlorota	7.45	62	147641	0.4915 mg/kg	98
48) TAME	7.59	73	259384	0.4887 mg/kg	98
49) trichloroete	8.24	95	110732	0.4742 mg/kg	100
50) methylcyclohexane	8.48	83	176941	0.4985 mg/kg	98
51) 12dicloropra	8.51	63	106143	0.4917 mg/kg	97
52) 23dicl1propene	8.58	75	158287	0.5033 mg/kg	97
53) Dibromometha	8.67	93	69090	0.5153 mg/kg	97
54) methylmethacrylate	8.67	69	86144	0.4997 mg/kg	97
55) 14dioxane	8.72	88	81002	64.1424 mg/kg	97
56) Bromodiclrma	8.86	83	109529	0.4465 mg/kg	89
57) 2Nitropropane	9.15	43	234152	5.0404 mg/kg	96
58) 2CLEVE	9.25	63	96277	1.1197 mg/kg	97
59) c13dicloproe	9.44	75	140347	0.4812 mg/kg	100
60) 4Meth2Pentan	9.64	43	1727612	5.5570 mg/kg	100
62) Toluene	9.88	92	257537	0.4955 mg/kg	100
63) t13Dicloprop	10.16	75	110788	0.4790 mg/kg	99
64) ethylmethacrylate	10.29	69	288873	1.0518 mg/kg	99
65) 112Triclotha	10.39	83	84844	0.5144 mg/kg	95
66) Tetrachlorte	10.60	166	140384	0.5223 mg/kg	99
67) 13Diclorpropa	10.62	76	162816	0.5074 mg/kg	99
69) 2Hexanone	10.74	43	1336327	5.4530 mg/kg	99
70) Clorodibrmta	10.92	129	84132	0.4563 mg/kg	96
71) 12Dibrometha	11.08	107	96856	0.4639 mg/kg	92
72) Chlorobenzen	11.76	112	282454	0.4795 mg/kg	97
73) 1Clhexane	11.72	91	144474	0.4588 mg/kg	99
74) 1112Tetclota	11.87	131	78440	0.4383 mg/kg	95
75) Ethylbenzene	11.90	91	495616	0.4918 mg/kg	100
76) m p-Xylene	12.07	106	377637	0.9839 mg/kg	97
77) o-Xylene	12.62	106	180434	0.4888 mg/kg	99
78) Styrene	12.64	104	298887	0.5004 mg/kg	99
79) Bromoform	12.89	173	60130	0.4696 mg/kg	96
80) Isopropylben	13.14	105	455730	0.4993 mg/kg	97
82) cyclohexanone	13.27	55	106533	14.7590 mg/kg	94
84) Bromobenzene	13.57	156	147958	0.4866 mg/kg	99
85) 1122Tetrclta	13.56	83	158795	0.5317 mg/kg	99
86) 123Triclproa	13.62	75	164621	0.4680 mg/kg	95
87) 14dichloro2butene	13.64	53	27376	0.4076 mg/kg	95
88) n-Propylbenz	13.73	91	588010	0.4902 mg/kg	98
89) 2chlorotolue	13.85	91	339783	0.4718 mg/kg	99
90) 4chlorotolue	14.01	91	396252	0.4891 mg/kg	99
91) 135Trimebenz	13.98	105	406054	0.4791 mg/kg	99
92) tbutylbenzen	14.45	119	345429	0.4749 mg/kg	99
93) 124Trimetben	14.53	105	399000	0.4803 mg/kg	96
94) sbutylbenzen	14.77	105	544590	0.4966 mg/kg	99
95) 13Diclorbenz	14.93	146	249861	0.4819 mg/kg	98
96) pIsopropylto	14.99	119	444591	0.4925 mg/kg	99
97) 14dichlorobe	15.06	146	255188	0.4913 mg/kg	100
98) 12dichlorobe	15.60	146	243181	0.4910 mg/kg	99
99) nButylbenzen	15.59	91	401187	0.4885 mg/kg	98
100) 12dibromo3cl	16.71	157	28709	0.4891 mg/kg	94
101) 135Trichlorobenzene	17.01	180	216103	0.5106 mg/kg	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT1016\CCV1.D Vial: 3
Acq On : 10 Oct 2016 8:33 Operator: RLD-AGK
Sample : 131088,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 10 08:54:29 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 01 09:13:08 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	177604	0.5041 mg/kg	98
103) Hexachlorobu	18.05	225	104677	0.5012 mg/kg	96
104) Naphthalene	18.14	128	403539	0.5105 mg/kg	100
105) 123Trichlben	18.44	180	170325	0.5075 mg/kg	100

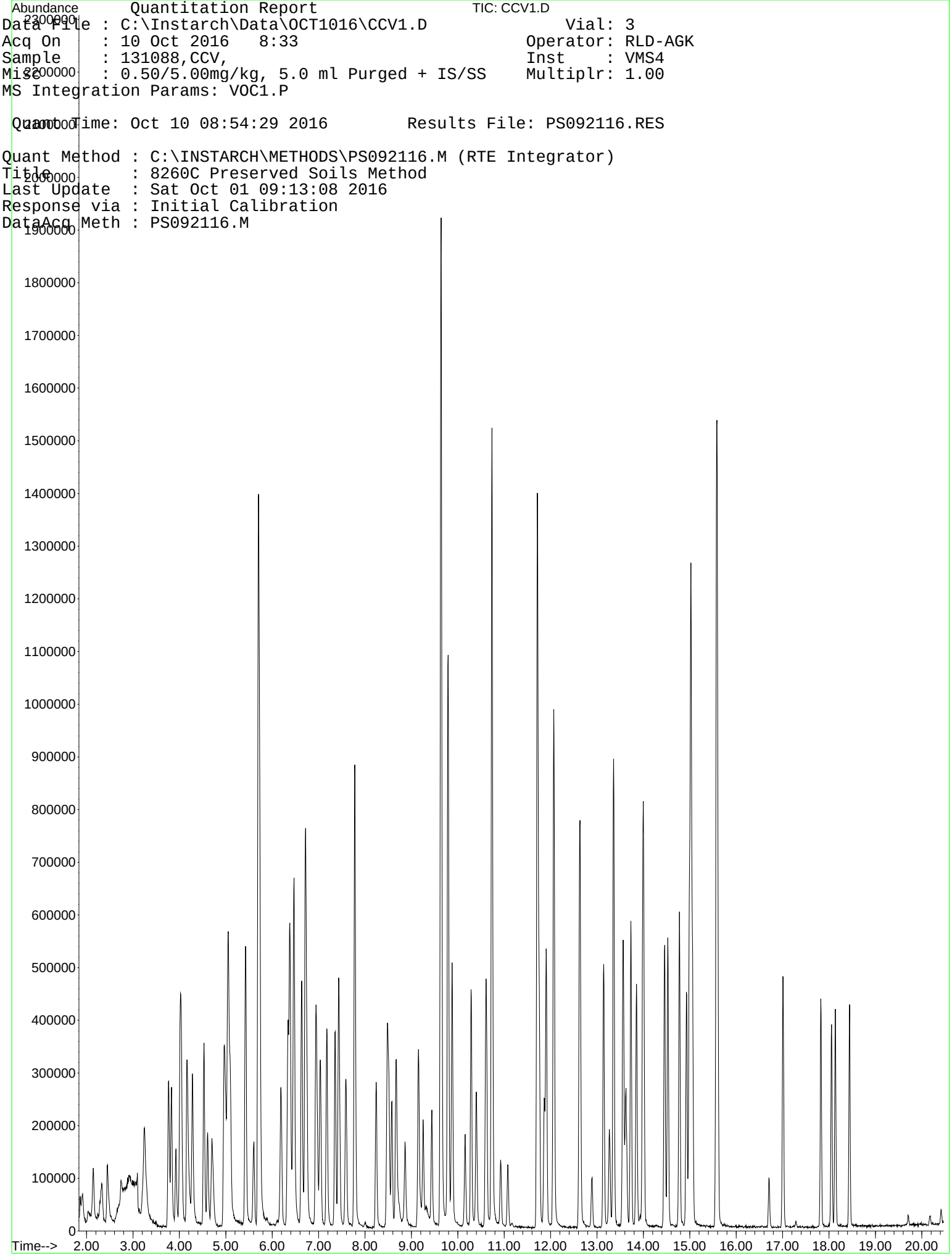
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT1016\CCV1.D Vial: 3
Acq On : 10 Oct 2016 8:33 Operator: RLD-AGK
Sample : 131088,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 10 08:54:29 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Sat Oct 01 09:13:08 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



Data File : C:\Instarch\Data\OCT1116\BFB1.D Vial: 1
Acq On : 11 Oct 2016 7:10 Operator: RLD-AGK
Sample : 131089,BFB, Inst : VMS4
Misc : 50 ng Injection Multiplr: 1.00
Integration File: VOC1.P

Method : C:\INSTARCH\METHODS\PS092116.M
Title : 8260C Preserved Soils Method

Spectrum Information: Average of 4.767 to 4.780 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	17145	PASS
75	95	30	60	54.8	54813	PASS
95	95	100	100	100.0	100000	PASS
96	95	5	9	7.5	7495	PASS
173	174	0.00	2	0.9	856	PASS
174	95	50	100	93.7	93741	PASS
175	174	5	9	7.5	7067	PASS
176	174	95	101	99.7	93473	PASS
177	176	5	9	5.2	4875	PASS

PS092116.M Wed Oct 12 09:12:58 2016

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\OCT1116\CCV1.D Vial: 3
Acq On : 11 Oct 2016 7:54 Operator: RLD-AGK
Sample : 131089,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 11 08:14:58 2016

Quant Method : C:\INSTARCH\METHODS\PS092116.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS092116.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	86	0.00
2	T	Dichlorodi	0.2606	0.2471	5.18	85	-0.04
3	PT	Chloromethan	0.2962	0.2956	0.20	93	0.00
4	CT	VinylChlorid	0.2832	0.2915	-2.93	93	0.03
5	T	Bromomethane	0.0888	0.0775	12.73	82	0.00
6	T	Chloroethane	0.0962	0.0847	11.95	81	0.00
7	T	dichloroflmethane	0.4154	0.4174	-0.48	91	0.00
8	T	Trichlorofma	0.3492	0.3550	-1.66	93	-0.01
9	T	Ethylether	0.1717	0.1812	-5.53	93	0.00
10	T	dichlorotfluoroethan	0.2444	0.2480	-1.47	91	0.00
11	T	propyleneoxide	0.0575	0.0373	35.13#	59	0.00
12	T	Acrolein	0.0471	0.0690	-46.50#	145	0.00
13	CT	11dichlorthe	0.2021	0.2089	-3.36	92	0.00
14	T	Trichlorotfluoroeth	0.2061	0.2108	-2.28	91	0.00
15	T	Acetone	0.1118	0.1227	-9.75	90	0.00
16	T	Iodomethane	0.1556	0.1168	24.94#	84	0.00
17	T	Carbon Dislf	0.4977	0.5210	-4.68	95	0.00
18	T	allylchloride	0.3117	0.3108	0.29	90	0.00
19	T	methylacetate	0.1000	0.1072	-7.20	87	0.00
20	T	Methylchlorid	0.2652	0.2429	8.41	96	0.00
21	T	Acrylonitrile	0.1228	0.1252	-1.95	89	0.00
22	T	t12dichlorte	0.2211	0.2195	0.72	92	0.00
23	T	tbutylalcohol	0.0255	0.0281	-10.20	98	0.00
24	T	MtBE	0.6078	0.5822	4.21	90	0.00
25	T	Hexane	0.3007	0.2947	2.00	88	0.00
26	PT	11dichlorota	0.3887	0.3929	-1.08	90	0.00
27	T	Vinylacetate	0.3588	0.4174	-16.33	97	0.00
28	T	chloroprene	0.3583	0.3671	-2.46	89	0.00
29	T	Diisopether	0.7307	0.7502	-2.67	91	0.00
30	T	ETBE	0.5806	0.5597	3.60	88	0.00
31	T	22dichloropr	0.2575	0.2739	-6.37	101	0.00
32	T	c12dichlorte	0.2398	0.2490	-3.84	95	0.00
33	T	2Butanone	0.0403	0.0419	-3.97	92	0.00
34	T	propionitrile	0.0467	0.0491	-5.14	93	0.00
35	T	Ethylacetate	0.0116	0.0116	0.00	91	0.00
36	T	methacrylonitrile	0.1222	0.1275	-4.34	94	0.00
37	T	Bromochlorma	0.1111	0.1160	-4.41	97	0.00
38	T	Tetrahydofur	0.1098	0.1117	-1.73	91	0.00
39	CT	Chloroform	0.3936	0.3961	-0.64	94	0.00
40	T	111trichlota	0.3179	0.3280	-3.18	97	0.00
41	S	SURRDibrflma	0.2504	0.2580	-3.04	90	0.00
42	T	Cyclohexane	0.3582	0.3630	-1.34	89	0.00
43	T	Carbtetraclo	0.2063	0.2337	-13.28	110	-0.01
44	T	11dicloprope	0.1022	0.1050	-2.74	93	0.00
45	S	SURR12DCAd4	0.0628	0.0628	0.00	85	0.00
46	T	Benzene	0.8813	0.9392	-6.57	95	0.00
47	T	12dichlorota	0.3132	0.3113	0.61	91	0.00
48	T	TAME	0.5535	0.5450	1.54	89	0.00

49	T	trichloroete	0.2435	0.2347	3.61	88	0.00
50	T	methylcyclohexane	0.3701	0.3779	-2.11	93	0.00
51	CT	12dicloropra	0.2251	0.2289	-1.69	92	0.00
52	T	23dicl1propene	0.3279	0.3164	3.51	89	0.00
53	T	Dibromometha	0.1398	0.1467	-4.94	93	0.00
54	T	methylmethacrylate	0.1798	0.1844	-2.56	98	0.00
55	T	14dioxane	0.0014	0.0013#	7.14	76	0.00
56	T	Bromodiclrma	0.2558	0.2625	-2.62	93	0.00
57	T	2Nitropropane	0.0514	0.0568	-10.51	114	0.00
58		2CLEVE	0.0897	0.0241	73.13#	24#	0.00
59	T	c13dicloproe	0.3041	0.3148	-3.52	95	0.00
60	T	4Meth2Pentan	0.3242	0.3424	-5.61	91	0.00
61	S	SURRd8Tolule	0.9585	0.9726	-1.47	87	0.00
62	CT	Toluene	0.5419	0.5523	-1.92	93	0.00
63	T	t13Dicloprop	0.2412	0.2536	-5.14	99	0.00
64	T	ethylmethacrylate	0.2864	0.2887	-0.80	89	0.00
65	T	112Triclotha	0.1720	0.1724	-0.23	93	0.00
66	T	Tetrachlorte	0.2803	0.2849	-1.64	88	0.00
67	T	13Diclorpropa	0.3346	0.3313	0.99	89	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	89	0.00
69	T	2Hexanone	0.3231	0.3382	-4.67	92	0.00
70	T	Clorodibrmta	0.2431	0.2559	-5.27	103	0.00
71	T	12Dibrometha	0.2752	0.2897	-5.27	97	0.00
72	PT	Chlorobenzen	0.7766	0.7707	0.76	91	0.00
73	T	1Clhexane	0.4151	0.3801	8.43	87	0.00
74	T	1112Tetclota	0.2359	0.2335	1.02	103	0.00
75	CT	Ethylbenzene	1.3286	1.3051	1.77	89	0.00
76	T	m p-Xylene	0.5060	0.4971	1.76	89	0.00
77	T	o-Xylene	0.4866	0.4848	0.37	91	0.00
78	T	Styrene	0.7875	0.7768	1.36	88	0.00
79	PT	Bromoform	0.1783	0.1916	-7.46	111	0.00
80	T	Isopropylben	1.2033	1.1627	3.37	88	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	93	0.00
82	T	cyclohexanone	0.0163	0.0180	-10.43	98	0.00
83	S	SURR4BrFBenz	0.8283	0.8031	3.04	91	0.00
84	T	Bromobenzene	0.6879	0.6470	5.95	89	0.00
85	PT	1122Tetrclta	0.6757	0.7004	-3.66	99	0.00
86	T	123Triclproa	0.7958	0.7798	2.01	106	0.00
87	T	14dichloro2butene	0.1520	0.1511	0.59	104	0.00
88	T	n-Propylbenz	2.7141	2.6397	2.74	91	0.00
89	T	2chlorotolue	1.6295	1.5065	7.55	89	0.00
90	T	4chlorotolue	1.8331	1.7517	4.44	90	0.00
91	T	135Trimebenz	1.9176	1.8333	4.40	90	0.00
92	T	tbutylbenzen	1.6456	1.5636	4.98	90	0.00
93	T	124Trimetben	1.8795	1.8132	3.53	89	0.00
94	T	sbutylbenzen	2.4813	2.4117	2.80	91	0.00
95	T	13Diclorbenz	1.1730	1.1471	2.21	93	0.00
96	T	pIsopropylto	2.0424	2.0137	1.41	92	0.00
97	T	14dichlorobe	1.1751	1.1609	1.21	94	0.00
98	T	12dichlorobe	1.1205	1.0681	4.68	90	0.00
99	T	nButylbenzen	1.8579	1.8256	1.74	92	0.00
100	T	12dibromo3cl	0.1407	0.1586	-12.72	120	0.00
101	T	135Trichlorobenzene	0.9575	0.9428	1.54	95	0.00
102	T	124Trichlobe	0.7971	0.8325	-4.44	99	0.00
103	T	Hexachlorobu	0.4725	0.4812	-1.84	95	0.00
104	T	Naphthalene	1.7885	1.8157	-1.52	94	0.00
105	T	123Trichlben	0.7594	0.7896	-3.98	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS092116.M Wed Oct 12 09:14:45 2016

Evaluate Continuing Calibration Report

Data File : C:\Instarch\Data\OCT1116\CCV1.D Vial: 3
Acq On : 11 Oct 2016 7:54 Operator: RLD-AGK
Sample : 131089,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
Integrator: RTE

Quant Time: Oct 11 08:14:58 2016

Quant Method : C:\INSTARCH\METHODS\PS092116.M
Quant Title : 8260C Preserved Soils Method
Response via : Initial Calibration
DataAcq Meth:PS092116.M

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.15min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE**ISTD**	1.0000	1.0000	0.00	86	0.00
2	T	Dichlorodi	0.5000	0.4741	5.18	85	-0.04
3	PT	Chloromethan	0.5000	0.4990	0.20	93	0.00
4	CT	VinylChlorid	0.5000	0.5145	-2.90	93	0.03
5	T	Bromomethane	0.5000	0.4363	12.74	82	0.00
6	T	Chloroethane	0.5000	0.4402	11.96	81	0.00
7	T	dichloroflmethane	0.5000	0.5024	-0.48	91	0.00
8	T	Trichlorofma	0.5000	0.5083	-1.66	93	-0.01
9	T	Ethylether	0.5000	0.5277	-5.54	93	0.00
10	T	dichlorotfluoroethan	0.5000	0.5074	-1.48	91	0.00
11	T	propyleneoxide	5.0000	3.2391	35.22#	59	0.00
12	T	Acrolein	2.5000	3.6611	-46.44#	145	0.00
13	CT	11dichlorthe	0.5000	0.5170	-3.40	92	0.00
14	T	Trichlorotfluoroeth	1.0000	1.0230	-2.30	91	0.00
15	T	Acetone	5.0000	5.4859	-9.72	90	0.00
16	T	Iodomethane	1.0000	0.7660	23.40#	84	0.00
17	T	Carbon Dislf	1.0000	1.0467	-4.67	95	0.00
18	T	allylchloride	1.0000	0.9972	0.28	90	0.00
19	T	methylacetate	0.5000	0.5360	-7.20	87	0.00
20	T	Methylchlorid	0.5000	0.5508	-10.16	96	0.00
21	T	Acrylonitrile	2.5000	2.5499	-2.00	89	0.00
22	T	t12dichlorte	0.5000	0.4965	0.70	92	0.00
23	T	tbutylalcohol	25.0000	27.5270	-10.11	98	0.00
24	T	MtBE	0.5000	0.4789	4.22	90	0.00
25	T	Hexane	1.0000	0.9800	2.00	88	0.00
26	PT	11dichlorota	0.5000	0.5054	-1.08	90	0.00
27	T	Vinylacetate	5.0000	5.8161	-16.32	97	0.00
28	T	chloroprene	1.0000	1.0245	-2.45	89	0.00
29	T	Diisopether	0.5000	0.5133	-2.66	91	0.00
30	T	ETBE	0.5000	0.4820	3.60	88	0.00
31	T	22dichloropr	0.5000	0.5317	-6.34	101	0.00
32	T	c12dichlorte	0.5000	0.5192	-3.84	95	0.00
33	T	2Butanone	5.0000	5.1943	-3.89	92	0.00
34	T	propionitrile	5.0000	5.2491	-4.98	93	0.00
35	T	Ethylacetate	2.5000	2.5047	-0.19	91	0.00
36	T	methacrylonitrile	1.0000	1.0431	-4.31	94	0.00
37	T	Bromochlorma	0.5000	0.5222	-4.44	97	0.00
38	T	Tetrahydofur	5.0000	5.0885	-1.77	91	0.00
39	CT	Chloroform	0.5000	0.5032	-0.64	94	0.00
40	T	111trichlota	0.5000	0.5159	-3.18	97	0.00
41	S	SURRDibrflma	1.0000	1.0304	-3.04	90	0.00
42	T	Cyclohexane	0.5000	0.5067	-1.34	89	0.00
43	T	Carbtetraclo	0.5000	0.5663	-13.26	110	-0.01
44	T	11dicloprope	0.5000	0.5133	-2.66	93	0.00
45	S	SURR12DCAd4	1.0000	1.0005	-0.05	85	0.00
46	T	Benzene	0.5000	0.5328	-6.56	95	0.00
47	T	12dichlorota	0.5000	0.4970	0.60	91	0.00
48	T	TAME	0.5000	0.4923	1.54	89	0.00

49	T	trichloroete	0.5000	0.4821	3.58	88	0.00
50	T	methylcyclohexane	0.5000	0.5105	-2.10	93	0.00
51	CT	12dicloropra	0.5000	0.5084	-1.68	92	0.00
52	T	23dicl1propene	0.5000	0.4824	3.52	89	0.00
53	T	Dibromometha	0.5000	0.5246	-4.92	93	0.00
54	T	methylmethacrylate	0.5000	0.5128	-2.56	98	0.00
55	T	14dioxane	25.0000	25.8662	-3.46	76	0.00
56	T	Bromodiclrma	0.5000	0.5131	-2.62	93	0.00
57	T	2Nitropropane	5.0000	5.7420	-14.84	114	0.00
58		2CLEVE	2.5000	0.6732	73.07#	24	0.00
59	T	c13dicloproe	0.5000	0.5175	-3.50	95	0.00
60	T	4Meth2Pentan	5.0000	5.2807	-5.61	91	0.00
61	S	SURRd8Tolule	1.0000	1.0147	-1.47	87	0.00
62	CT	Toluene	0.5000	0.5095	-1.90	93	0.00
63	T	t13Dicloprop	0.5000	0.5258	-5.16	99	0.00
64	T	ethylmethacrylate	1.0000	1.0080	-0.80	89	0.00
65	T	112Triclotha	0.5000	0.5013	-0.26	93	0.00
66	T	Tetrachlorte	0.5000	0.5082	-1.64	88	0.00
67	T	13Diclorpropa	0.5000	0.4950	1.00	89	0.00
68	I	d5-CHLOROBENZENE**ISTD**	1.0000	1.0000	0.00	89	0.00
69	T	2Hexanone	5.0000	5.2338	-4.68	92	0.00
70	T	Clorodibrmta	0.5000	0.5265	-5.30	103	0.00
71	T	12Dibrometha	0.5000	0.5262	-5.24	97	0.00
72	PT	Chlorobenzen	0.5000	0.4963	0.74	91	0.00
73	T	1Clhexane	0.5000	0.4578	8.44	87	0.00
74	T	1112Tetclota	0.5000	0.4949	1.02	103	0.00
75	CT	Ethylbenzene	0.5000	0.4912	1.76	89	0.00
76	T	m p-Xylene	1.0000	0.9823	1.77	89	0.00
77	T	o-Xylene	0.5000	0.4981	0.38	91	0.00
78	T	Styrene	0.5000	0.4933	1.34	88	0.00
79	PT	Bromoform	0.5000	0.5566	-11.32	111	0.00
80	T	Isopropylben	0.5000	0.4831	3.38	88	0.00
81	I	d4-1,4-DICHLOROBENZENE**IS	1.0000	1.0000	0.00	93	0.00
82	T	cyclohexanone	10.0000	10.9963	-9.96	98	0.00
83	S	SURR4BrFBenz	1.0000	0.9696	3.04	91	0.00
84	T	Bromobenzene	0.5000	0.4702	5.96	89	0.00
85	PT	1122Tetrclta	0.5000	0.5183	-3.66	99	0.00
86	T	123Triclproa	0.5000	0.4899	2.02	106	0.00
87	T	14dichloro2butene	0.5000	0.4972	0.56	104	0.00
88	T	n-Propylbenz	0.5000	0.4863	2.74	91	0.00
89	T	2chlorotolue	0.5000	0.4623	7.54	89	0.00
90	T	4chlorotolue	0.5000	0.4778	4.44	90	0.00
91	T	135Trimebenz	0.5000	0.4780	4.40	90	0.00
92	T	tbutylbenzen	0.5000	0.4751	4.98	90	0.00
93	T	124Trimetben	0.5000	0.4824	3.52	89	0.00
94	T	sbutylbenzen	0.5000	0.4860	2.80	91	0.00
95	T	13Diclorbenz	0.5000	0.4890	2.20	93	0.00
96	T	pIsopropylto	0.5000	0.4930	1.40	92	0.00
97	T	14dichlorobe	0.5000	0.4940	1.20	94	0.00
98	T	12dichlorobe	0.5000	0.4766	4.68	90	0.00
99	T	nButylbenzen	0.5000	0.4913	1.74	92	0.00
100	T	12dibromo3cl	0.5000	0.5847	-16.94	120	0.00
101	T	135Trichlorobenzene	0.5000	0.4923	1.54	95	0.00
102	T	124Trichlobe	0.5000	0.5222	-4.44	99	0.00
103	T	Hexachlorobu	0.5000	0.5092	-1.84	95	0.00
104	T	Naphthalene	0.5000	0.5076	-1.52	94	0.00
105	T	123Trichlben	0.5000	0.5199	-3.98	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PS092116.M Wed Oct 12 09:15:12 2016

Quantitation Report

Data File : C:\Instarch\Data\OCT1116\CCV1.D Vial: 3
Acq On : 11 Oct 2016 7:54 Operator: RLD-AGK
Sample : 131089,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 11 08:14:58 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Oct 11 08:09:31 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M
IS QA File : 50 level for IS QA unknown. No recoveries calculated.

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min) Rcv(Ar)
1) FLUOROBENZENE**ISTD**	7.78	96	1073810	1.00 mg/kg	0.00 NA%
68) d5-CHLOROBENZENE**ISTD**	11.71	117	838327	1.00 mg/kg	0.00 NA%
81) d4-1,4-DICHLOROBENZENE**IS	15.02	152	480318	1.00 mg/kg	0.00 NA%

System Monitoring Compounds

41) SURRDibrflma	6.95	113	277088	1.030 mg/kg	0.00
Spiked Amount 1.000	Range 82 - 118		Recovery	= 103 %	
45) SURR12DCAd4	7.36	102	67433	1.000 mg/kg	0.00
Spiked Amount 1.000	Range 80 - 117		Recovery	= 100 %	
61) SURRd8Tolule	9.79	98	1044366	1.015 mg/kg	0.00
Spiked Amount 1.000	Range 85 - 122		Recovery	= 101 %	
83) SURR4BrFBenz	13.36	95	385750	0.970 mg/kg	0.00
Spiked Amount 1.000	Range 77 - 136		Recovery	= 97 %	

Target Compounds

					Qvalue
2) Dichlorodi	1.87	85	132675	0.4741 mg/kg	96
3) Chloromethan	2.14	50	158729	0.4990 mg/kg	97
4) VinylChlorid	2.32	62	156489	0.5145 mg/kg	99
5) Bromomethane	2.74	94	41595	0.4363 mg/kg	97
6) Chloroethane	2.89	64	45495	0.4402 mg/kg	93
7) dichloroflmethane	3.22	67	224123	0.5024 mg/kg	99
8) Trichlorofma	3.26	101	190609	0.5083 mg/kg	98
9) Ethylether	3.76	59	97292	0.5277 mg/kg	96
10) dichlorotfluoroethan	3.77	67	133170	0.5074 mg/kg	99
11) propyleneoxide	3.82	58	200055	3.2391 mg/kg	99
12) Acrolein	3.92	56	185164	3.6611 mg/kg	93
13) 11dichlorthe	4.02	96	112174	0.5170 mg/kg	97
14) Trichlorotfluoroeth	4.05	101	226394	1.0230 mg/kg	99
15) Acetone	4.15	43	658701	5.4859 mg/kg	99
16) Iodomethane	4.22	142	125380	0.7660 mg/kg	95
17) Carbon Dislf	4.29	76	559432	1.0467 mg/kg	99
18) allylchloride	4.54	41	333762	0.9972 mg/kg	98
19) methylacetate	4.61	74	57580	0.5360 mg/kg	95
20) Methylchlorid	4.71	84	130395	0.5508 mg/kg	97
21) Acrylonitrile	5.04	53	336120	2.5499 mg/kg	97
22) t12dichlorte	5.07	96	117862	0.4965 mg/kg	99
23) tbutylalcohol	4.94	59	753025	27.5270 mg/kg	100
24) MtBE	5.09	73	312571	0.4789 mg/kg	100
25) Hexane	5.43	57	316493	0.9800 mg/kg	100
26) 11dichlorota	5.61	63	210946	0.5054 mg/kg	97
27) Vinylacetate	5.70	43	2240859	5.8161 mg/kg	99
28) chloroprene	5.72	53	394157	1.0245 mg/kg	97
29) Diisopether	5.73	45	402785	0.5133 mg/kg#	78
30) ETBE	6.19	59	300497	0.4820 mg/kg	100
31) 22dichloropr	6.34	77	147041	0.5317 mg/kg	99
32) c12dichlorte	6.34	96	133674	0.5192 mg/kg	97
33) 2Butanone	6.37	72	225060	5.1943 mg/kg	96
34) propionitrile	6.45	54	263368	5.2491 mg/kg	99
35) Ethylacetate	6.47	88	31218	2.5047 mg/kg#	95
36) methacrylonitrile	6.63	67	136875	1.0431 mg/kg	93
37) Bromochlorma	6.64	128	62285	0.5222 mg/kg	97
38) Tetrahydofur	6.71	42	599823	5.0885 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT1116\CCV1.D Vial: 3
Acq On : 11 Oct 2016 7:54 Operator: RLD-AGK
Sample : 131089,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 11 08:14:58 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Oct 11 08:09:31 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
39)	Chloroform	6.74	83	212667	0.5032 mg/kg	97
40)	111trichlota	6.97	97	176104	0.5159 mg/kg	97
42)	Cyclohexane	7.04	56	194904	0.5067 mg/kg	98
43)	Carbtetraclo	7.18	119	125458	0.5663 mg/kg	100
44)	11dicloprope	7.17	110	56350	0.5133 mg/kg	97
46)	Benzene	7.43	78	504240	0.5328 mg/kg	98
47)	12dichlorota	7.45	62	167161	0.4970 mg/kg	99
48)	TAME	7.58	73	292595	0.4923 mg/kg	99
49)	trichloroete	8.24	95	126032	0.4821 mg/kg	98
50)	methylcyclohexane	8.48	83	202906	0.5105 mg/kg	97
51)	12dicloropra	8.51	63	122882	0.5084 mg/kg	99
52)	23dicl1propene	8.58	75	169888	0.4824 mg/kg	97
53)	Dibromometha	8.67	93	78758	0.5246 mg/kg	97
54)	methylmethacrylate	8.67	69	98991	0.5128 mg/kg	99
55)	14dioxane	8.70	88	34911	25.8662 mg/kg	93
56)	Bromodiclrma	8.87	83	140935	0.5131 mg/kg	92
57)	2Nitropropane	9.15	43	304706	5.7420 mg/kg	97
58)	2CLEVE	9.26	63	64815	0.6732 mg/kg	97
59)	c13dicloproe	9.44	75	169011	0.5175 mg/kg	99
60)	4Meth2Pentan	9.63	43	1838184	5.2807 mg/kg	99
62)	Toluene	9.88	92	296513	0.5095 mg/kg	98
63)	t13Dicloprop	10.16	75	136165	0.5258 mg/kg	98
64)	ethylmethacrylate	10.28	69	309974	1.0080 mg/kg	98
65)	112Triclotha	10.40	83	92568	0.5013 mg/kg	98
66)	Tetrachlorte	10.60	166	152951	0.5082 mg/kg	94
67)	13Diclorpropa	10.63	76	177868	0.4950 mg/kg	98
69)	2Hexanone	10.74	43	1417531	5.2338 mg/kg	100
70)	Clorodibrmta	10.93	129	107283	0.5265 mg/kg	98
71)	12Dibrometha	11.08	107	121422	0.5262 mg/kg	99
72)	Chlorobenzen	11.76	112	323067	0.4963 mg/kg	99
73)	1Clhexane	11.72	91	159316	0.4578 mg/kg	96
74)	1112Tetclota	11.86	131	97879	0.4949 mg/kg	99
75)	Ethylbenzene	11.91	91	547055	0.4912 mg/kg	99
76)	m p-Xylene	12.07	106	416711	0.9823 mg/kg	97
77)	o-Xylene	12.62	106	203202	0.4981 mg/kg	97
78)	Styrene	12.64	104	325627	0.4933 mg/kg	98
79)	Bromoform	12.89	173	80326	0.5566 mg/kg	97
80)	Isopropylben	13.14	105	487365	0.4831 mg/kg	98
82)	cyclohexanone	13.27	55	86254	10.9963 mg/kg	93
84)	Bromobenzene	13.57	156	155379	0.4702 mg/kg	95
85)	1122Tetrclta	13.56	83	168210	0.5183 mg/kg	98
86)	123Triclproa	13.62	75	187264	0.4899 mg/kg	92
87)	14dichloro2butene	13.64	53	36295	0.4972 mg/kg	95
88)	n-Propylbenz	13.73	91	633944	0.4863 mg/kg	99
89)	2chlorotolue	13.85	91	361797	0.4623 mg/kg	99
90)	4chlorotolue	14.01	91	420682	0.4778 mg/kg	96
91)	135Trimebenz	13.99	105	440293	0.4780 mg/kg	99
92)	tbutylbenzen	14.46	119	375517	0.4751 mg/kg	99
93)	124Trimetben	14.53	105	435465	0.4824 mg/kg	95
94)	sbutylbenzen	14.77	105	579184	0.4860 mg/kg	99
95)	13Diclorbenz	14.93	146	275493	0.4890 mg/kg	98
96)	pIsopropylto	14.99	119	483609	0.4930 mg/kg	99
97)	14dichlorobe	15.06	146	278802	0.4940 mg/kg	98
98)	12dichlorobe	15.60	146	256511	0.4766 mg/kg	99
99)	nButylbenzen	15.59	91	438434	0.4913 mg/kg	99
100)	12dibromo3cl	16.71	157	38100	0.5847 mg/kg	95
101)	135Trichlorobenzene	17.01	180	226430	0.4923 mg/kg	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT1116\CCV1.D Vial: 3
Acq On : 11 Oct 2016 7:54 Operator: RLD-AGK
Sample : 131089,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 11 08:14:58 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Oct 11 08:09:31 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
102) 124Trichlobe	17.82	180	199928	0.5222 mg/kg	97
103) Hexachlorobu	18.05	225	115575	0.5092 mg/kg	96
104) Naphthalene	18.14	128	436050	0.5076 mg/kg	98
105) 123Trichlben	18.44	180	189637	0.5199 mg/kg	96

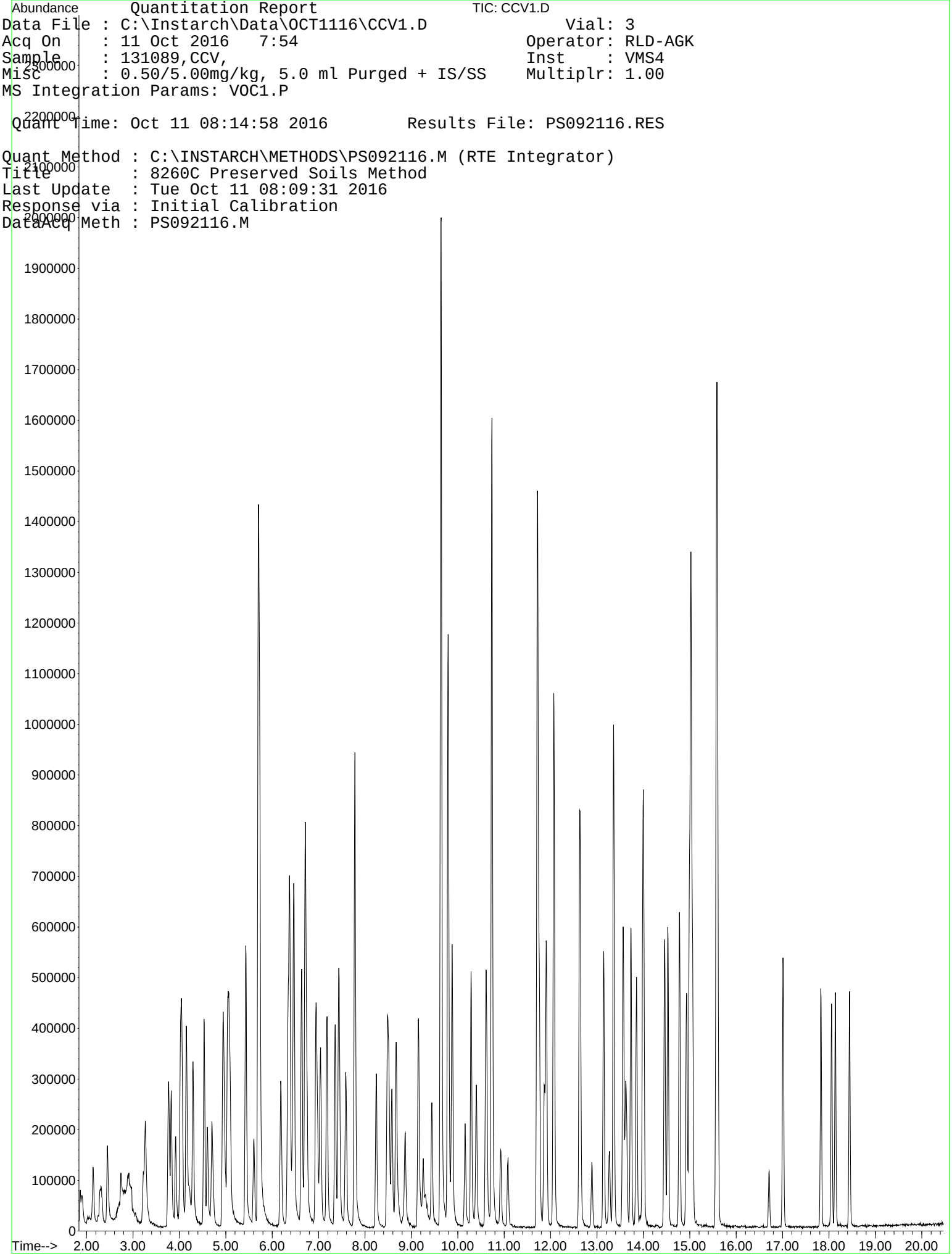
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\Instarch\Data\OCT1116\CCV1.D Vial: 3
Acq On : 11 Oct 2016 7:54 Operator: RLD-AGK
Sample : 131089,CCV, Inst : VMS4
Misc : 0.50/5.00mg/kg, 5.0 ml Purged + IS/SS Multiplr: 1.00
MS Integration Params: VOC1.P

Quant Time: Oct 11 08:14:58 2016 Results File: PS092116.RES

Quant Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Last Update : Tue Oct 11 08:09:31 2016
Response via : Initial Calibration
DataAcq Meth : PS092116.M



VOLATILE ORGANIC ANALYSIS
LOGBOOK
DOCUMENTS

V 8260 QSM LL H2O Analytical Run
131023 on 10/12/2016

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	784564						V 8260 QSM LL H2O				
				BFB				0			
	784565						V 8260 QSM LL H2O				
				CCV				0			
	784566						V 8260 QSM LL H2O				
				LCSW				0			
	784567						V 8260 QSM LL H2O				
				MBW				0			
122627	783098		10/04/2016		CH2M HILL	MODINE MFG	VOC 8260 QSM LL		M	**3**	Y
		TRIP BLANK									
122627	783095		10/04/2016 0900		CH2M HILL	MODINE MFG	VOC 8260 QSM LL		GW	**3**	Y
		MD-GW102-100416		Designated MS/MSD							
122627	783096		10/04/2016 1010		CH2M HILL	MODINE MFG	VOC 8260 QSM LL		GW	**3**	Y
		MD-GW106-100416									
122627	783097		10/04/2016 1012		CH2M HILL	MODINE MFG	VOC 8260 QSM LL		GW	**3**	Y
		MD-GW106-D-100416									
	784587		10/04/2016 0900				VOC 8260 QSM LL				
		MD-GW102-100416		MSW 783095				0			
	784588		10/04/2016 0900				VOC 8260 QSM LL				
		MD-GW102-100416		MSDW 784587				0			
	784735						V 8260 QSM LL H2O				
				BFB				0			
	784765						V 8260 QSM LL H2O				
				CCV				0			
	786239						V 8260 QSM LL H2O				
				CCB				0			
122627	783096		10/04/2016 1010		CH2M HILL	MODINE MFG	VOC 8260 QSM LL		GW	**3**	Y
RERUN		MD-GW106-100416									
122627	783097		10/04/2016 1012		CH2M HILL	MODINE MFG	VOC 8260 QSM LL		GW	**3**	Y
RERUN		MD-GW106-D-100416									

15 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT0416B\BFB1.D
Injection Date : 4 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 20:54 Total files within period : 100
Sample Directory : C:\INSTARCH\DATA\OCT0416B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
BFB4	1.00	1.00	1.00	130832,BFB, 50 ng Injection	6 Oct 2016	09:32
CCV-LCS4	1.00	1.00	1.00	130832,LCSW, 4.00/40.00 ug/L, 25.0 ml	6 Oct 2016	09:54
MB4-CCB3	1.00	1.00	1.00	130832,MBW, pH<2, 25.0 ml DI H2O Purg	6 Oct 2016	10:51
783098	1.00	1.00	1.00	131023,783098, pH<2, 25.0 ml Purged + IS	6 Oct 2016	17:06
783095	1.00	1.00	1.00	131023,783095, pH<2, 25.0 ml Purged + IS	6 Oct 2016	17:35
783096	1.00	1.00	1.00	131023,783096, pH<2, 25.0 ml Purged + IS	6 Oct 2016	18:04
783097	1.00	1.00	1.00	131023,783097, pH<2, 25.0 ml Purged + IS	6 Oct 2016	18:32
783095MS	1.00	1.00	1.00	131023,MSW783095, pH<2, 4.00/40.00 ug/L, 25	6 Oct 2016	19:59
783095SD	1.00	1.00	1.00	131023,MSDW783095, pH<2, 4.00/40.00 ug/L, 25	6 Oct 2016	20:28

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0234
8260 CCV/CALIB. 100ug/ml VOC0235

FVO4-01 Data Review Checklist

FORM #: FVO4-01
Rev. #: 1.1
Eff. Date: 4/01/15

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)					
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved?			Instrument
					Yes	No		
10/4/16B	130746, 130747, 130832, 130833, 131023	RLD	AGK	10/12/2016	Yes			VMS4

Instructions: Complete one checklist per analytical sequence. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance criteria	Analyst Review		Independent Review		Comments:
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits		No		No	If no, analyze another blank to address detects.
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific					If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?						If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)		No		No	If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?		Yes		Yes		If yes, affected results qualified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a LCS with each sample batch.
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						If yes, affected results qualified "Q"
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MS/MSD pair with each sample batch.
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

Injection Log Summary Report

Method : M:\INSTARCH\METHODS\LW100416.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : M:\INSTARCH\DATA\OCT0616\BFB1.D
Injection Date : 6 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 20:56 Total files within period : 47
Sample Directory : M:\INSTARCH\DATA\OCT0616\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
BFB2	1.00	1.00	1.00	130956,BFB, 50 ng Injection	7 Oct 2016	09:16
CCV-LCS2	1.00	1.00	1.00	130956,LCSW, 4.00/40.00 ug/L, 25.0 ml	7 Oct 2016	09:30
MB2-CCB1	1.00	1.00	1.00	130956,MBW, pH<2, 25.0 ml DI H2O Purg	7 Oct 2016	10:27
783096R	1.00	1.00	1.00	131023,783096,50 pH<2, 25.0 ml Purged + IS	7 Oct 2016	18:40
783097R	1.00	1.00	1.00	131023,783097,50 pH<2, 25.0 ml Purged + IS	7 Oct 2016	19:10

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0234
8260 CCV/CALIB. 100ug/ml VOC0235

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\LW100416.M
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT0416\BFB1.D
Injection Date : 4 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 10:05 Total files within period : 20
Sample Directory : C:\INSTARCH\DATA\OCT0416\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
LLCALW1	1.00	1.00	1.00	CALIB. PT. 1 0.10/1.00 ug/L, 25.0	4 Oct 2016	11:52
LLCALW2	1.00	1.00	1.00	CALIB. PT. 2 0.50/5.00 ug/L, 25.0	4 Oct 2016	12:22
LLCALW3	1.00	1.00	1.00	CALIB. PT. 3 1.00/10.00 ug/L, 25.	4 Oct 2016	12:51
LLCALW4	1.00	1.00	1.00	CALIB. PT. 4 2.00/20.00 ug/L, 25.	4 Oct 2016	13:21
LLCALW5	1.00	1.00	1.00	CALIB. PT. 5 4.00/40.00 ug/L, 25.	4 Oct 2016	13:51
LLCALW6	1.00	1.00	1.00	CALIB. PT. 6 6.00/60.00 ug/L, 25.	4 Oct 2016	14:20
LLCALW7	1.00	1.00	1.00	CALIB. PT. 7 8.00/80.00 ug/L, 25.	4 Oct 2016	14:50
LLCALW8	1.00	1.00	1.00	CALIB. PT. 8 16.00/160.0 ug/L, 25	4 Oct 2016	15:19
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 4.00/40.00 ug/L, 25.	4 Oct 2016	16:19
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 8.00/80.00, 25.0 ml	4 Oct 2016	16:49
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK pH<2, 25.0 ml DI H2O	4 Oct 2016	19:48

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0234
8260 CCV/CALIB. 100ug/ml VOC0235

VOC 8260 QSM WATER Analytical Run
131016 on 10/07/2016

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	785005						VOC 8260 QSM WATER				
				BFB				0			
	784584						VOC 8260 QSM WATER				
				LCSW				0			
	784586						VOC 8260 QSM WATER				
				CCV				0			
	785006						VOC 8260 QSM WATER				
				MBW				0			
122627	783104		10/03/2013		CH2M HILL	MODINE MFG	VOC 8260 QSM		M	**3**	Y
		TRIP BLANK									

5 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT0616B\BFB1.D
Injection Date : 6 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 15:40 Total files within period : 23
Sample Directory : C:\INSTARCH\DATA\OCT0616B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV-LCS1	1.00	1.00	1.00	131015,LCSW, 10.00/100 ug/L, 5.0 mL Pu	6 Oct 2016	16:05
MB1	1.00	1.00	1.00	131015,MBW, pH<2, 5.0 mL DI H20 Purge	6 Oct 2016	17:05
783104	1.00	1.00	1.00	131016,783104, pH<2, 5.0 mL DI H20 Purge	6 Oct 2016	18:05

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0234
8260 CCV/CALIB. 100ug/ml VOC0235

FVO4-01 Data Review Checklist

FORM #: FVO4-01
Rev. #: 1.1
Effective Date: 4/01/15

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)					
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved?			Instrument
					Yes	No		
10/06/2016	130835 130958 131015 131016	AGK	RLD	10/10/2016	Yes			VMS3

Instructions: Complete one checklist per analytical sequence. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance criteria	Analyst Review		Independent Review		Comments:
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits		No		No	If no, analyze another blank to address detects.
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?		Yes		Yes		If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)		No		No	If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?		Yes		Yes		If yes, affected results qualified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a LCS with each sample batch.
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?		Yes		Yes		If yes, affected results qualified "Q"
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MS/MSD pair with each sample batch.
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	generated limits, or client specific limits.	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

VOC 8260 QSM WATER Analytical Run
131014 on 10/07/2016

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	784891						VOC 8260 QSM WATER				
				LCSW				0			
	784892						VOC 8260 QSM WATER				
				CCV				0			
	784955						VOC 8260 QSM WATER				
				MBW				0			
122587	782264		09/30/2016		CH2M	MODINE MFG	VOC 8260 QSM		M	**3**	Y
		TRIP BLANK									
122588	782273		10/01/2016		CH2M	MODINE MFG	VOC 8260 QSM		M	**3**	Y
		TRIP BLANK									

5 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT0716\BFB1.D
Injection Date : 7 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 09:36 Total files within period : 9
Sample Directory : C:\INSTARCH\DATA\OCT0716\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV-LCS1	1.00	1.00	1.00	131076,LCSW, 10.00/100 ug/L, 5.0 mL Pu	7 Oct 2016	10:25
MB1	1.00	1.00	1.00	131076,MBW, pH<2, 5.0 mL DI H20 Purge	7 Oct 2016	11:26
782264	1.00	1.00	1.00	131014,782264, pH<2, 5.0 mL DI H20 Purge	7 Oct 2016	11:56
782273	1.00	1.00	1.00	131014,782273, pH<2, 5.0 mL DI H20 Purge	7 Oct 2016	12:25

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0234
8260 CCV/CALIB. 100ug/ml VOC0235

FVO4-01 Data Review Checklist

FORM #: FVO4-01
Rev. #: 1.1
Effective Date: 4/01/15

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)				
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved?		Instrument
					Yes	No	
10/07/2016	131014 131076	AGK	RLD	10/10/2016	Yes		VMS3

Instructions: Complete one checklist per analytical sequence. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance criteria	Analyst Review		Independent Review		Comments:
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		If no, analyze another blank to address detects.
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific		No		No	If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?		Yes		Yes		If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)	Yes		Yes		If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?						If yes, affected results qualified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a LCS with each sample batch.
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						If yes, affected results qualified "Q"
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MS/MSD pair with each sample batch.
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	N/A		N/A		If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	generated limits, or client specific limits.	N/A		N/A		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\W100516.M (RTE Integrator)
Title : 8260C Waters Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT0516B\BFB1.D
Injection Date : 5 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 21:34 Total files within period : 24
Sample Directory : C:\INSTARCH\DATA\OCT0516B\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
WCAL1	1.00	1.00	1.00	INITIAL CALIB. PT1 0.50/5.00 ug/L, 5.0 mL Pu	5 Oct 2016	23:20
WCAL2	1.00	1.00	1.00	INITIAL CALIB. PT2 2.00/20.0 ug/L, 5.0 mL Pu	5 Oct 2016	23:50
WCAL3	1.00	1.00	1.00	INITIAL CALIB. PT3 5.00/50.0 ug/L, 5.0 mL Pu	6 Oct 2016	00:20
WCAL4	1.00	1.00	1.00	INITIAL CALIB. PT4 10.00/100 ug/L, 5.0 mL Pu	6 Oct 2016	00:50
WCAL5	1.00	1.00	1.00	INITIAL CALIB. PT5 20.00/200 ug/L, 5.0 mL Pu	6 Oct 2016	01:20
WCAL6	1.00	1.00	1.00	INITIAL CALIB. PT6 30.00/300 ug/L, 5.0 mL Pu	6 Oct 2016	01:51
WCAL7	1.00	1.00	1.00	INITIAL CALIB. PT7 40.00/400 ug/L, 5.0 mL Pu	6 Oct 2016	02:20
WCAL8	1.00	1.00	1.00	INITIAL CALIB. PT8 80.00/800 ug/L, 5.0 mL Pu	6 Oct 2016	02:50
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF. 10.00/100 ug/L, 5.0 mL Pu	6 Oct 2016	03:51
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF. 30.00/300 ug/L, 5.0 mL Pu	6 Oct 2016	04:21
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 5.0 mL DI H20 Purged + IS	6 Oct 2016	05:22

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0234
8260 CCV/CALIB. 100ug/ml VOC0235

VOC 8260 QSM SOIL Analytical Run
131088 on 10/11/2016

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)	CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	786010						VOC 8260 QSM SOIL				
				BFB				0			
	785373						VOC 8260 QSM SOIL				
				CCV				0			
	784715						VOC 8260 QSM				
				LCSS				59414			
	784714						VOC 8260 QSM				
				MBS				59414			
122587	782259		09/30/2016 1325		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB108D-SO-1-093016						59414			
122587	782260		09/30/2016 1327		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB108D-SO-13-093016						59414			
122587	782261		09/30/2016 1329		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB108D-SO-24-093016						59414			
122587	782262		09/30/2016 1329		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB108D-SO-24-093016-FD						59414			
122587	782263		09/30/2016 1331		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB108D-SO-34-093016						59414			
122588	782265		10/01/2016 1345		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB109D-SO-1-100116						59414			
122588	782266		10/01/2016 1347		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB109D-SO-5-100116						59414			
122588	782267		10/01/2016 1349		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB109D-SO-21-100116						59414			
122588	782268		10/01/2016 1351		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB109D-SO-24-100116						59414			
122588	782269		10/02/2016 1400		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB110D-SO-1-100216						59414			
122588	782270		10/02/2016 1402		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB110D-SO-6.5-100216		Designated MS/MSD				59414			
122588	782271		10/02/2016 1404		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB110D-SO-9-100216						59414			
122588	782272		10/02/2016 1406		CH2M	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB110D-SO-17-100216						59414			
122627	783091		10/04/2016 1235		CH2M HILL	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB112D-SO-1-100416						59414			
122627	783092		10/04/2016 1236		CH2M HILL	MODINE MFG	VOC 8260 QSM		S	3	Y
		SB112D-SO-19-100416						59414			

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

VOC 8260 QSM SOIL Analytical Run
131088 on 10/11/2016

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
122627	783093		10/04/2016 1240			CH2M HILL	MODINE MFG	VOC 8260 QSM		S	**3**	Y
		SB112D-SO-27-100416							59414			
122627	783094		10/04/2016 1241			CH2M HILL	MODINE MFG	VOC 8260 QSM		S	**3**	Y
		SB112D-SO-34-100416							59414			
	784716		10/02/2016 1402					VOC 8260 QSM				
		SB110D-SO-6.5-100216		MSS	782270				59414			
	784717		10/02/2016 1402					VOC 8260 QSM				
		SB110D-SO-6.5-100216		MSDS	784716				59414			

23 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

Distribution: C:\LIMSREPS\ANALYTICALRUN.RPT

PREP WORKSHEET
on 10/11/2016

Prep Batch **59,414** Date Prepped: 10/07/2016 Prepped By AGK

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	784714	MBS		VOC 8260 QSM	SOLID	10.0	10.0			
	784715	LCSS		VOC 8260 QSM	SOLID	10.0	10.0			
122587	782259			VOC 8260 QSM	SOIL	5.0	4.21		3	
	782260			VOC 8260 QSM	SOIL	5.0	5.53		3	
	782261			VOC 8260 QSM	SOIL	5.0	4.17		3	
	782262			VOC 8260 QSM	SOIL	5.0	3.77		3	
	782263			VOC 8260 QSM	SOIL	5.0	6.48		3	
122588	782265			VOC 8260 QSM	SOIL	5.0	5.47		3	
	782266			VOC 8260 QSM	SOIL	5.0	4.63		3	
	782267			VOC 8260 QSM	SOIL	5.0	6.40		3	
	782268			VOC 8260 QSM	SOIL	5.0	5.57		3	
	782269			VOC 8260 QSM	SOIL	5.0	6.20		3	
	782270	*		VOC 8260 QSM	SOIL	5.0	5.72		3	
	782271			VOC 8260 QSM	SOIL	5.0	3.64		3	
	782272			VOC 8260 QSM	SOIL	5.0	5.60		3	
122627	783091			VOC 8260 QSM	SOIL	5.0	6.64		3	
	783092			VOC 8260 QSM	SOIL	5.0	6.03		3	

PREP WORKSHEET
on 10/11/2016

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
122627	783093			VOC 8260 QSM	SOIL	5.0	7.21		3	
	783094			VOC 8260 QSM	SOIL	5.0	4.73		3	
	784716	MSS	782270	VOC 8260 QSM	SOIL	5.0	5.37			
	784717	MSDS	784716	VOC 8260 QSM	SOIL	5.0	5.37			

Notes:_____

FVO3,4,5,7-02

VOC SOILS PRESERVED - PREP BENCHSHEET

Prep Batch #:	59414
Method:	8260
Analyst:	AGK
Date:	10/07/2016
Start Time:	11:09

NON-LUST

	Sample ID	Vial Weight (g)	Tare Weight (g)	Sample Weight (g)		MeOH Added (mL)
1	782259	34.06	29.60	4.21		5.0
2	782260	35.10	29.32	5.53		5.0
3	782261	34.12	29.70	4.17		5.0
4	782262	33.44	29.42	3.77		5.0
5	782263	36.19	29.46	6.48		5.0
6	782265	35.21	29.49	5.47		5.0
7	782266	34.40	29.52	4.63		5.0
8	782267	36.22	29.57	6.40		5.0
9	782268	35.26	29.44	5.57		5.0
10	782269	35.84	29.39	6.20		5.0
11	782270	35.45	29.48	5.72		5.0
12	782271	33.34	29.45	3.64		5.0
13	782272	35.31	29.46	5.60		5.0
14	783091	35.91	29.02	6.64		5.0
15	783092	35.85	29.57	6.03		5.0
16	783093	37.00	29.54	7.21		5.0
17	783094	34.50	29.52	4.73		5.0
18	MS/MSD782270	35.22	29.60	5.37		5.0
19				-0.25		
20				-0.25		
21				-0.25		

Samples received unpreserved are preserved at a 1:1 ratio, weight to volume with methanol
Balance: Mettler Toledo, VOB01
LCS & MB prepared @ 1:1 ratio MeOH/Silica Sand
MeOH used (Supplier/Lot#): OmniSolv/55344
Sample Weight = Vial Weight - Tare Weight - 0.25g (label weight)

Stop Time:	11:45

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT1016\BFB1.D
Injection Date : 10 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 07:49 Total files within period : 24
Sample Directory : C:\INSTARCH\DATA\OCT1016\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV1	1.00	1.00	1.00	131088,CCV, 0.50/5.00mg/kg, 5.0 ml Pu	10 Oct 2016	08:33
LCS1	1.00	1.00	1.00	131088,LCSS, 1.0 ml Ext/50 ml, 0.50/5.	10 Oct 2016	09:03
MB1	1.00	1.00	1.00	131088,MBS, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	10:01
782259	1.00	1.00	1.00	131088,782259, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	10:30
782260	1.00	1.00	1.00	131088,782260, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	10:59
782261	1.00	1.00	1.00	131088,782261, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	11:27
782262	1.00	1.00	1.00	131088,782262, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	11:56
782263	1.00	1.00	1.00	131088,782263, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	12:24
782265	1.00	1.00	1.00	131088,782265, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	12:53
782266	1.00	1.00	1.00	131088,782266, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	13:22
782267	1.00	1.00	1.00	131088,782267, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	13:50
782268	1.00	1.00	1.00	131088,782268, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	14:19
782269	1.00	1.00	1.00	131088,782269, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	14:48
782270	1.00	1.00	1.00	131088,782270, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	15:17
782271	1.00	1.00	1.00	131088,782271, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	15:45
782272	1.00	1.00	1.00	131088,782272, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	16:15
783091	1.00	1.00	1.00	131088,783091, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	16:44
783092	1.00	1.00	1.00	131088,783092, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	17:12
783093	1.00	1.00	1.00	131088,783093, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	17:41
783094	1.00	1.00	1.00	131088,783094, 1.0 ml Ext/50 ml, 5.0 ml	10 Oct 2016	18:09

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT1016\BFB1.D
Injection Date : 10 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 07:49 Total files within period : 24
Sample Directory : C:\INSTARCH\DATA\OCT1016\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
782270MS	1.00	1.00	1.00	131088,MSS782270, 1.0 ml Ext/50 ml, 0.50/5.	10 Oct 2016	18:38
782270SD	1.00	1.00	1.00	131088,MSDS782270, 1.0 ml Ext/50 ml, 0.50/5.	10 Oct 2016	19:07

8260 ISTD/SSTD 20ug/ml VOC0239
8260 BFB STD. 50ug/ml VOC0238
8260 ICV STD. 100ug/ml VOC0227
8260 CCV/CALIB. 100ug/ml VOC0228

FVO4-01 Data Review Checklist

FORM #: FVO4-01
Rev. #: 1.1
Effective Date: 4/01/15

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)				
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved?		Instrument
					Yes	No	
10/10/2016	131088	RLD	AGK	10/11/2016	Yes		VMS4

Instructions: Complete one checklist per analytical sequence. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance criteria	Analyst Review		Independent Review		Comments:
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits	Yes		Yes		If no, analyze another blank to address detects.
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?						If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)	Yes		Yes		If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?						If yes, affected results qualified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a LCS with each sample batch.
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						If yes, affected results qualified "Q"
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MS/MSD pair with each sample batch.
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	generated limits, or client specific limits.	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

VOC 8260 QSM SOIL Analytical Run
131089 on 10/12/2016

Date Analyzed: _____ Date Reviewed: _____

Date Entered: _____ Date Validated: _____

COC	ORDER	SAMPLE DECRIPTION	SAMPLE DATE/ TIME	QC TYPE (Parent Sample)		CLIENT	PROJECT	TEST	PREP BATCH	MATRIX	DEL	RUSH
	785959							VOC 8260 QSM SOIL				
				BFB					0			
	785964							VOC 8260 QSM SOIL				
				CCV					0			
	784721							VOC 8260 QSM				
				LCSS					59415			
	784720							VOC 8260 QSM				
				MBS					59415			
122627	783099		10/03/2013 1300			CH2M HILL	MODINE MFG	VOC 8260 QSM		S	**3**	Y
		SB111D-SO-20-100316							59415			
122627	783100		10/03/2013 1302			CH2M HILL	MODINE MFG	VOC 8260 QSM		S	**3**	Y
		SB111D-SO-8-100316							59415			
122627	783101		10/03/2013 1304			CH2M HILL	MODINE MFG	VOC 8260 QSM		S	**3**	Y
		SB111D-SO-1-100316							59415			
122627	783102		10/03/2013 1306			CH2M HILL	MODINE MFG	VOC 8260 QSM		S	**3**	Y
		SB111D-SO-17-100316							59415			
122627	783103		10/03/2013 1306			CH2M HILL	MODINE MFG	VOC 8260 QSM		S	**3**	Y
		SB111D-SO-17-100316-FD							59415			
	784718		10/03/2013 1300					VOC 8260 QSM				
		SB111D-SO-20-100316		MSS	783099				59415			
	784719		10/03/2013 1300					VOC 8260 QSM				
		SB111D-SO-20-100316		MSDS	784718				59415			

11 SAMPLE COUNT ON RUN, INCLUDING METHOD AND INSTRUMENT QC

Matrix: S-Soil Slg-Sludge GW-GroundWater M-Misc Waste SW-Surface Water A-Air WW-WasteWater DW-Drinking Water SD=Sediment Leachate=LE

PREP WORKSHEET
on 10/12/2016

Prep Batch **59,415** Date Prepped: 10/07/2016 Prepped By AGK

Folder #	Order	QC Type	Link	Test	Matrix	Volume	Weight	Initial Volume	SDG Level	Notes
	784720	MBS		VOC 8260 QSM	SOLID	10.0	10.0			
	784721	LCSS		VOC 8260 QSM	SOLID	10.0	10.0			
122627	783099			VOC 8260 QSM	SOIL	5.0	6.38		3	
	783100			VOC 8260 QSM	SOIL	5.0	5.70		3	
	783101			VOC 8260 QSM	SOIL	5.0	5.96		3	
	783102			VOC 8260 QSM	SOIL	5.0	6.67		3	
	783103			VOC 8260 QSM	SOIL	5.0	5.33		3	
	784718	MSS	783099	VOC 8260 QSM	SOIL	5.0	5.55			
	784719	MSDS	784718	VOC 8260 QSM	SOIL	5.0	5.55			

Notes:

FVO3,4,5,7-02

VOC SOILS PRESERVED - PREP BENCHSHEET

Prep Batch #:	59415
Method:	8260
Analyst:	AGK
Date:	10/07/2016
Start Time:	11:09

NON-LUST

	Sample ID	Vial Weight (g)	Tare Weight (g)	Sample Weight (g)		MeOH Added (mL)
1	783099	36.00	29.37	6.38		5.0
2	783100	35.37	29.42	5.70		5.0
3	783101	35.73	29.52	5.96		5.0
4	783102	36.49	29.57	6.67		5.0
5	783103	35.20	29.62	5.33		5.0
6	MS/MSD783099	35.27	29.47	5.55		5.0
7				-0.25		
8				-0.25		
9				-0.25		
10				-0.25		
11				-0.25		
12				-0.25		
13				-0.25		
14				-0.25		
15				-0.25		
16				-0.25		
17				-0.25		
18				-0.25		
19				-0.25		
20				-0.25		
21				-0.25		

Samples received unpreserved are preserved at a 1:1 ratio, weight to volume with methanol
Balance: Mettler Toledo, VOB01
LCS & MB prepared @ 1:1 ratio MeOH/Silica Sand
MeOH used (Supplier/Lot#): OmniSolv/55344
Sample Weight = Vial Weight - Tare Weight - 0.25g (label weight)

Stop Time:	11:45

Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS092116.M (RTE Integrator)
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\OCT1116\BFB1.D
Injection Date : 11 Oct 2016 Log Time Period (hrs) : ALL
Injection Time : 07:10 Total files within period : 24
Sample Directory : C:\INSTARCH\DATA\OCT1116\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CCV1	1.00	1.00	1.00	131089,CCV, 0.50/5.00mg/kg, 5.0 ml Pu	11 Oct 2016	07:54
LCS1	1.00	1.00	1.00	131089,LCSS, 1.0 ml Ext/50 ml, 0.50/5.	11 Oct 2016	08:23
MB1	1.00	1.00	1.00	131089,MBS, 1.0 ml Ext/50 ml, 5.0 ml	11 Oct 2016	09:20
783099	1.00	1.00	1.00	131089,783099, 1.0 ml Ext/50 ml, 5.0 ml	11 Oct 2016	09:49
783100	1.00	1.00	1.00	131089,783100, 1.0 ml Ext/50 ml, 5.0 ml	11 Oct 2016	10:18
783101	1.00	1.00	1.00	131089,783101, 1.0 ml Ext/50 ml, 5.0 ml	11 Oct 2016	10:47
783102	1.00	1.00	1.00	131089,783102, 1.0 ml Ext/50 ml, 5.0 ml	11 Oct 2016	11:16
783103	1.00	1.00	1.00	131089,783103, 1.0 ml Ext/50 ml, 5.0 ml	11 Oct 2016	11:45
783099MS	1.00	1.00	1.00	131089,MSS783099, 1.0 ml Ext/50 ml, 0.50/5.	11 Oct 2016	15:07
783099SD	1.00	1.00	1.00	131089,MSDS783099, 1.0 ml Ext/50 ml, 0.50/5.	11 Oct 2016	15:36

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0234
8260 CCV/CALIB. 100ug/ml VOC0235

FORM #: FVO4-01
Rev. #: 1.1
Eff. Date: 4/01/15

INDEPENDENT DATA REVIEW CHECKLIST			Method: GCMS (EPA SW-846 8260C)				
Analysis Date	LIMs Run #(s):	Analyst/Data Interpreter	Independent Reviewer	Date of Review	Approved?		Instrument
					Yes	No	
10/11/2016	131089, 131102, 131132	RLD	AGK	10/12/2016	Yes		VMS4

Instructions: Complete one checklist per analytical sequence. Enter the appropriate response for each question. Each "No" response requires an explanation in the Comments section and may require the initiation of a Nonconformance Report.

Requirement:	Acceptance criteria	Analyst Review		Independent Review		Comments:
		Yes	No	Yes	No	
I. BFB Tune Check						
Was a BFB tune check analyzed with acceptable results?	Relative abundance criteria met?	Yes		Yes		If no, Do not proceed with analyses.
II. Initial Calibration Verification (ICV)						
Was initial calibration performed using a minimum of five standard concentration levels (minimum of 6 levels for quadratic curves)?	Lowest standard at or below RL?	Yes		Yes		If no, recalibrate with required # of levels
Were the Average Relative Response Factors (ARRF) acceptable?	ARRF≥ specified limits (see SOP)	Yes		Yes		If no, analyses stopped, recalibrate.
Was a second-source ICV analyzed?	Required before sample analyses.	Yes		Yes		If no, analyze prior to sample analyses.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalyzed ICV to address failures
Was Initial Calibration Blank (ICB) analyzed?	Required before sample analyses.	Yes		Yes		If no, analyzed ICB before sample analyses.
Were the ICB results for all target analytes less than the limit of detection (LOD).	<LOD or < project/program specific limits		No		No	If no, analyze another blank to address detects.
III. Continuing Calibration Verification (CCV)						
Was an acceptable BFB tune check run at the beginning of every twelve hour shift?	Relative abundance criteria met?	Yes		Yes		If no, reanalyze BFB until acceptable; re-tuning the instrument may be necessary.
Was a CCV analyzed after every 12 hour tune check?	Required before sample analyses.	Yes		Yes		If no, analyzed CCV after acceptable tune check.
Were all target compound %Deviation or %Drift acceptable?	%D < 20% or project/program specific	Yes		Yes		If no, reanalysis or recalibration may be required.
If necessary, were the results for outlying compounds qualified?						If yes, results qualified "Z"

IV. Blanks						
Was a Method Blank (MB) analyzed prior to analysis of samples?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MB with each sample batch.
Were the MB results for all target analytes less than the limit of detection (LOD)?	*All target analytes <LOD or < project/program specific limits (<1/2 RL for DoD-QSM)		No		No	If no, reanalyze MB an all affected data if possible or see SOP for more detailed criteria
If analytes were detected in the MB with no associated positives in the samples, no further action is needed. If the analyte detects in the MB were greater than the acceptance criteria and there were detects in the samples, was the data qualified.?		Yes		Yes		If yes, affected results qualified "B"
V. Laboratory Control Spike (LCS)						
Was a LCS analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a LCS with each sample batch.
Were the LCS recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.	Yes		Yes		If no, Reanalyze LCS and all affected data if possible or data requires qualification.
If applicable, were associated sample detects (and non-detects for low recoveries) qualified?						If yes, affected results qualified "Q"
VI. Matrix Spike/Matrix Spike Duplicate (MS/MSD)						
Was a Martrix Spike (MS) and a Matrix Spike Duplicate (MSD) analyzed at the required frequency?	1 per 20 samples or project/program specific.	Yes		Yes		If no, analyze a MS/MSD pair with each sample batch.
Were the MS/MSD recoveries for all analytes within acceptance criteria?	Default 70-130%, or see internally generated limits, or project/program specified limits.		No		No	If no, qualify detects (with an "M" flag) in the parent sample, also qualify non-detects if MS/MSD recoveries were low.
Is the relative percent difference (RPD) for each analyte between the MS and MSD acceptable?	Default 20%, or see internally generated limits, or client specific	Yes		Yes		If no, affected results qualified "Y"
VII. Sample Analyses						
Are chromatogram characteristics, including peak shapes and areas, consistent with those of the CCV?		Yes		Yes		If no, instrument maintenance may be required to correct problems.
Were surrogate recoveries for all samples and QC within acceptance criteria?	Default 70-130%, or see internally generated program limits, or client specified limits.	Yes		Yes		If no, samples with high surrogate recoveries and no associated analyte detects were not reanalyzed. Low surrogate recoveries require reanalysis.
If possible, were the affected samples reanalyzed?						If no, see below **
**Were reported sample results with failing surrogate recoveries qualified?						If yes, affected results qualified "S"
Were all samples having analytes detected in amounts exceeding the calibration range diluted and reanalyzed? If not qualify (X).	Target upper middle range of calibration curve.	Yes		Yes		
Did all samples meet hold time and preservation criteria as defined by method/program?	H2O sample: pH < 2 = 14 days, pH >2 = 7 days. Soil samples: 14 days (other criteria may apply)	Yes		Yes		If no, see below: If analyzed past hold, qualify "H" If improperly preserved qualify "T"
Were all samples and QC injected within 12 hours of BFB tune check?		Yes		Yes		If no, affected samples reanalyzed
Were internal standard recoveries acceptable relevant to associated ICAL?	Response = -50 to +200%; Ret. time = +/- 30 sec.	Yes		Yes		If no, affected samples reanalyzed

VIII. Records and Reporting						
Is sequence file / injection log present in the data package?		Yes		Yes		If no, include sequence run with raw data.
Were all data, calculations, and values verified in LIMS upon completion of data capture?		Yes		Yes		If no, recapture the data and verify data prior to validation.
Were manual integrations addressed properly and were the audit trails turned on (where applicable)?	Manual integration must be initialed, dated, and reason given, along with before & after chromatograms. Audit trail must be on (if available).	Yes		Yes		IF No, address manual integration and/or turn on audit trail feature and document reason why it may have been turned off.
Are reported results whose amounts exceeded the acceptance criteria flagged with an appropriate qualifier and, if needed, were any non-matrix related nonconformities documented in the NCR spreadsheet?		Yes		Yes		If No, include proper qualification(s) in LIMS and enter nonconformities into the NCR spreadsheet before data review/validation.

Non-applicable Yes/No cells are left blank

Comments:

pl_ilog
Injection Log Summary Report

Method : C:\INSTARCH\METHODS\PS092116.M
Title : 8260C Preserved Soils Method
Start (Tune) File ID : C:\INSTARCH\DATA\SEP2116\BFB1.D
Injection Date : 21 Sep 2016 Log Time Period (hrs) : ALL
Injection Time : 19:01 Total files within period : 16
Sample Directory : C:\INSTARCH\DATA\SEP2116\

Injection Log Summary Table

File ID	Multiplier I	S	T	Sample Name / Misc Info	Date	Time
CALS1	1.00	1.00	1.00	CALIB. PT. 1 0.025/0.25 mg/kg, 5.	21 Sep 2016	20:12
CALS2	1.00	1.00	1.00	CALIB. PT. 2 0.10/1.00 mg/kg, 5.0	21 Sep 2016	20:41
CALS3	1.00	1.00	1.00	CALIB. PT. 3 0.25/2.50 mg/kg, 5.0	21 Sep 2016	21:09
CALS4	1.00	1.00	1.00	CALIB. PT. 4 0.50/5.00 mg/kg, 5.0	21 Sep 2016	21:38
CALS5	1.00	1.00	1.00	CALIB. PT. 5 1.00/10.0 mg/kg, 5.0	21 Sep 2016	22:06
CALS6	1.00	1.00	1.00	CALIB. PT. 6 1.50/15.0 mg/kg, 5.0	21 Sep 2016	22:35
CALS7	1.00	1.00	1.00	CALIB. PT. 7 2.00/20.0 mg/kg, 5.0	21 Sep 2016	23:03
CALS8	1.00	1.00	1.00	CALIB. PT. 8 4.00/40.0 mg/kg, 5.0	21 Sep 2016	23:32
ICV1	1.00	1.00	1.00	INITIAL CALIB. VERIF 0.50/5.00mg/kg, 5.0	22 Sep 2016	00:28
ICV2	1.00	1.00	1.00	INITIAL CALIB. VERIF 1.50/15.0 mg/kg, 5.0	22 Sep 2016	00:57
ICB1	1.00	1.00	1.00	INITIAL CALIB. BLANK 1.0 ml Ext/50 ml, 5.	22 Sep 2016	02:22

8260 ISTD/SSTD 20ug/ml VOC0223
8260 BFB STD. 50ug/ml VOC0222
8260 ICV STD. 100ug/ml VOC0227
8260 CCV/CALIB. 100ug/ml VOC0228

LPVO1-01
Volatiles Standards Prep Logbook
Logbook Created: 01/16/2015
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Author: rdigmann on: 12.10.2016 07:53:50
Page is not Witnessed
Project: Unassigned
Page Title: 101016

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0238	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V726 into 2925uL of MeOH.	MeOH / OSolv/55344	50 ug/mL	10/10/2016	11/10/2016	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0239	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0799 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V756 into 25mL of MeOH.	MeOH / OSolv/55344	20 ug/mL	10/10/2016	11/10/2016	RLD

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LPVO1-01
Volatiles Standards Prep Logbook
Logbook Created: 01/16/2015
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Author: AAnstett on: 07.10.2016 08:37:38
Witness: akurth on: 18.10.2016 11:45:28
Project: Unassigned
Page Title: 100416

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0234	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0780, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0792, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0802 into 2250uL of MeOH.	MeOH / OSolv/55344	100 ug/mL	10/04/2016	10/11/2016	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0235	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0800, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0793, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0801 into 2250uL of MeOH.	MeOH / OSolv/55344	100 ug/mL	10/04/2016	10/11/2016	RLD

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LPVO1-01
Volatiles Standards Prep Logbook
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Author: rdigmann on: 26.09.2016 07:54:15
Witness: akurth on: 29.09.2016 13:27:47
Project: Unassigned
Page Title: 091616

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0227	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0780, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0792, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0788 into 2250uL of MeOH.	MeOH / OSolv/55344	100 ug/mL	09/16/2016	09/23/2016	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0228	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0800, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0793, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0789 into 2250uL of MeOH.	MeOH / OSolv/55344	100 ug/mL	09/16/2016	09/23/2016	RLD

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LPVO1-01
Volatiles Standards Prep Logbook
Logbook Created: 01/16/2015
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Author: rdigmann on: 09.09.2016 16:37:54
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Project: Unassigned
Page Title: 090716

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0222	8260 BFB Std.	75uL of 2,000 ug/mL 4-Bromofluorobenzene Std. V726 into 2925uL of MeOH.	MeOH / Osolv/55344	50 ug/mL	09/07/2016	10/07/2016	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0223	8260 ISTD/SSTD	200uL of 2,500 ug/mL 8260 Istd./Sstd. Mix V0799 and 250uL of 2000 ug/mL 1,2-Dichlorobenzene-$_{d4}$ Std. V756 into 25mL of MeOH.	MeOH / Osolv/55344	20 ug/mL	09/07/2016	10/07/2016	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0224	8260 ICV/Spiking Std.	150uL of 2,000 ug/mL VOC Mix V0780, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0792, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0788 into 2250uL of MeOH.	MeOH / Osolv/55344	100 ug/mL	09/07/2016	09/14/2016	RLD

Standard ID #	Standard Prepped	Prep	Solvent / Lot #	Final Concentration	Prep Date	Expiration Date	Analyst
VOC0225	8260 CCV/Calib. Std.	150uL of 2,000 ug/mL VOC Mix V0782, 300uL of 1,000/10,000 ug/mL VOC 8260 Additions Std. V0793, and 300uL of 1,000/10,000 ug/mL 8260 Special Additions Std. V0789 into 2250uL of MeOH.	MeOH / Osolv/55344	100 ug/mL	09/07/2016	09/14/2016	RLD

LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
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Author: rdigmann on: 06.09.2016 15:21:15
Page is not Witnessed
Project: Unassigned
Page Title: 083116

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0801	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW160824021
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	11/22/2016	08/31/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0802	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW160824022
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	11/22/2016	08/31/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Std.	

1

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0799	8260 ISTD/SSTD Mix	Ultra Scientific	STM-540	CM-1098
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,500 ug/mL	MeOH	04/30/2018	08/22/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ISTD/SSTD.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0800	8260 VOC Mix	Ultra Scientific	DWM-588-1	CP-2742
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	07/31/2019	08/22/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. Std.	

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LSVO1-01
Volatiles Standards Logbook
Logbook Created: 12/08/2015
NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 24
Page is Locked
Author: rdigmann on: 25.08.2016 09:29:34
Witness: akurth on: 01.09.2016 14:28:27
Project: Unassigned
Page Title: 082216

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0797	Fluorobenzene	Ultra Scientific	STS-160	CL-3264
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	09/30/2018	08/22/2017	RLD
# of Ampules/Units:	1	Comments:	Used for PVOC/8021 ISTD.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0798	α,α,α-Trifluorotoluene	Ultra Scientific	STS-220N	CM-5040
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	10/31/2019	08/22/2016	RLD
# of Ampules/Units:	1	Comments:	Used for PVOC/8021/8015 SSTD.	

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NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 21
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Author: rdigmann on: 27.07.2016 07:54:19
Witness: AAnstett on: 03.08.2016 13:50:10
Project: Unassigned
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0791	n-Nonane	SPEX- CertiPrep	S-2785	C1140929014
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1000 ug/mL	MeOH	09/28/2017	07/26/2016	AMA
# of Ampules/Units:	1	Comments:		

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0792	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW160721004
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 - 50,000 ug/mL	MeOH	01/17/2017	07/26/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calibration Std.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0793	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW160720031
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
1,000 - 50,000 ug/mL	MeOH	01/16/2017	07/26/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std.	

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NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 19
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Author: rdigmann on: 06.07.2016 10:03:23
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Project: Unassigned
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0788	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW160621021
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	09/19/16	06/27/16	AGK
# of Ampules/Units:	2 x 1mL	Comments:	Used for 8260 ICV/Spiking standard	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0789	VOC 8260 Additions	SPEX CertiPrep	VO-CTWI-12	BW160621022
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 10,000 ug/mL	MeOH	09/19/16	06/27/16	AGK
# of Ampules/Units:	2 x 1mL	Comments:	Used for 8260 CCV/Calib standard	

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NOTEBOOK VIEW: LTN_LSVO1_01_VOC_Default, NOTEBOOK: LSVO1_01_VOC, PAGE: 16
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Author: rdigmann on: 18.05.2016 10:13:16
Witness: AKURTH on: 24.06.2016 11:49:08
Project: Unassigned
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0784	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW160506010
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	11/02/2016	05/12/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 ICV/Spiking Std.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0785	VOC 8260 Special Additions	SPEX CertiPrep	VO-CTWI-5	BW160506011
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
1,000 - 50,000 ug/mL	MeOH	11/02/2016	05/12/2016	RLD
# of Ampules/Units:	2	Comments:	Used for 8260 CCV/Calib. Std.	

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Author: rdigmann on: 04.05.2016 09:00:42
Witness: AKURTH on: 24.06.2016 11:48:54
Project: Unassigned
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0782	8260 VOC Mix	Ultra Scientific	DWM-588-1	CP-0691
Concentration	Neat (% purity) or Solvent	Expiration Date	Date Received	Analyst
2,000 ug/mL	MeOH	03/31/2019	04/27/2016	RLD
# of Ampules/Units:	4	Comments:	Used for 8260 CCV/Calib. Std.	

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Author: rdigmann on: 28.04.2016 07:59:36
Witness: AKURTH on: 02.05.2016 11:01:38
Project: Unassigned
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Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0779	Silica Sand (Oven Dried)	Granusil	4030	0-163-14
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
N/A	N/A	N/A	04/26/2016	RLD
# of Ampules/Units:	1 Container	Comments:	Oven Dried, Used for VOC/PVOC/GRO LCS & Method Blanks.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0780	8260 VOC Mix	AccuStandard	M-502-10X-PAK	216031211
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
2,000 ug/mL	MeOH	05/17/2019	04/26/2016	RLD
# of Ampules/Units:	5	Comments:	Used for 8260 ICV/Spiking Std. prep.	

Standard ID #	Compound/Standard Name	Supplier/Manufacturer	Standard Part #	Standard Lot #
V0781	Carbon Dioxide (1% or 10000ppmV) balance He.	Air Gas	X02HE99C33A1899	152-400685268-1
Concentration	**Neat (% purity) or Solvent**	**Expiration Date**	**Date Received**	**Analyst**
10000 ppmV	Helium	04/11/2019	04/11/2019	RLD
# of Ampules/Units:	1 cylinder (FF33602)	Comments:	Used for CO2 analysis (Dissolved Gases).	

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION[1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V742	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526010	1000-50000 ug/mL, 11/22/15	MeOH	6/2/15, RD	2x1mL
V743	8260 VOC Mix.	Accu Standard	M-502-10X-PAK	215011040	2000 ug/mL, 1/12/18	MeOH	6/9/15, RD	5x1mL
V744	8260 VOC Mix	Ultra Sci.	DWM-588-1	CM-1859	2000 ug/mL, 5/31/18	MeOH	6/18/15, RD	2x1mL
V745	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526009	1000-50000 ug/mL, 11/22/15	MeOH	7/21/15, RD	2x1mL
V746	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526010	1000-50000 ug/mL, 11/22/15	MeOH	7/21/15, RD	2x1mL
V747	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150721007	1000-10000 ug/mL, 10/19/15	MeOH	7/23/15, RD	2x1mL
V748	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150721008	1000-10000 ug/mL, 10/19/15	MeOH	7/23/15, RD	2x1mL
V749	8260 VOC Mix	Ultra Sci.	DWM-588-1	CM-3808	2000 ug/mL, 8/31/18	MeOH	8/6/15, RD	2x1mL
V750	VOC 8260 ~~Special~~ Additions	SPEX	VO-CTWI-12	TS150901001	1000-50000 ug/mL, 11/30/15	MeOH	9/10/15, RD	2x1mL
V751	VOC 8260 ~~Special~~ Additions	SPEX	VO-CTWI-12	TS150904001	1000-50000 ug/mL, 12/3/15	MeOH	9/10/15, RD	2x1mL
V752	Fluorobenzene	Ultra Sci	STS-160-1	CL-3264	2000 ug/mL 9/30/18	MeOH	9/25/15 RD	4x1mL
V753	a,a,a-TFT	Ultra Sci	STS-220N-1	CM-5040	2000 ug/mL 10/31/19	MeOH	9/25/15 RD	4x1mL
V754	VOC 8360 Special Addition	SPEX	VO-CTWI-5	BW150925015	1,000-50,000 ug/mL 03/23/16	MeOH	10/02/15 BMS	2x1mL
V755	VOC 8260 Special Addition	SPEX	VO-CTWI-5	SM150925016	1,000-50,000 ug/mL 03/23/16	MeOH	10/02/15 BMS	2x1mL
V756	12-Dichlorobenzene-d4	Ultra Sci	STS-210-1	CG-1939Z	2000 ug/mL 9/30/18	MeOH	10/6/15 RD	4x1mL
V757	8260 VOC Mix	Ultra Sci	DWM-588-1	CM-3956	2000 ug/mL 8/31/18	MeOH	10/15/15 RD	4x1mL
V758	8260 VOC Mix	Accustandard	M-502-10X-PAK	215081111	2000 ug/mL 8/25/18	MeOH	11/3/15 RD	5x1mL
V759	PVOC/GRO Mix	RESTEK	30095	A0112470	1,000/10,000 ug/mL 08/31/22	MeOH	11/10/15 BMS	2x1mL
V760	PVOC/GRO Mix	ULTRA	UST-100-1	CK-2547A	1,000/10,000 ug/mL 09/30/17	MeOH	11/10/15 BMS	4x1mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

RD 11/23/15

CTI VOLATILE STANDARDS LOGBOOK 1

CTI STANDARD NUMBER (EXAMPLE = CTIV001*)	COMPOUND or SOLUTION NAME	COMPOUND / SOLUTION SUPPLIER	STANDARD'S PART NUMBER	STANDARD'S LOT #	STANDARD CONCENTRATION [1] and EXPIRATION DATE	NEAT (N) or SOLUTION (S) (If neat list % purity, if solution list solvent)	DATE REC'D and ANALYST'S INITIALS	COMMENTS
V723	8260 Special Addition	SPEX	VO-CTWI-5	C114111900B	1000-50000 ug/mL 5/18/15	MeOH	RD 12/16/14	2x/mL
V724	8260 Special Addition	SPEX	VO-CTWI-5	C114111900G	1000-50000 ug/mL 5/18/15	MeOH	RD 12/16/14	2x/mL
V725	8260 ISTD/SSTD Mix	Ultra Sci.	STM-540	CK-2154	2500 ug/mL 7/31/16	MeOH	RD 12/18/14	4x/mL
V726	BFB Std.	Ultra Sci.	STS-110N	CH-3248A	2000 ug/mL 11/30/17	MeOH	RD 12/18/14	2x/mL
V727	Acetylene Std.	AIRGAS	X02HE99C33A0037	54-124467791-1	200 PPMV 12/17/17	Helium	Bms 12/22/14	1 cylinder @ 28.7CF
V728	1,4-Dioxane Std.	SPEX	S-1715	C112121901Z	1000 ug/mL, 12/19/15	MeOH	RD 12/31/14	2x 1mL
V729	VOC Mix	Ultra Sci	DWM-588-1	CL-5325	2000 ug/mL, 1/31/18	MeOH	RD 1/31/15	2x/mL
V730	Methane, Ethene, Ethane Std.	AIRGAS	X04HE99C353080	54-124292800-1	200 ppmV 02/03/16	He	Bms 02/03/15	Re-certified V619
V731	VOC 8260 Additions	SPEX	VO-CTWI-12	C115020201Z	1000-10000 ug/mL, 5/3/15	MeOH	RD 2/6/15	2x/mL
V732	VOC 8260 Additions	SPEX	VOCTWI-12	C115020201Z	1000-10000 ug/mL, 5/3/15	MeOH	RD 2/6/15	2x/mL
V733	8260 Special Additions	SPEX	VO-CTWI-5	C115030300J	1000-50000 ug/mL, 8/30/15	MeOH	RD 3/11/15	2x/mL
V734	8260 Special Additions	SPEX	VO-CTWI-5	C115030400G	1000-50000 ug/mL, 8/31/15	MeOH	RD 3/11/15	2x/mL
V735	VOC Mix	Accu Std.	M-502-10X	214111094	2000 ug/mL 11/12/17	MeOH	RD 3/31/15	2x/mL
V736	VOC Mixture	ULTRA SCI.	DWM-588-1	CM-0137	2000 ug/mL 02/28/18	MeOH	Bms 04/09/15	2x 1mL
V737	Unleaded Gasoline	ULTRA SCI.	RGO-601-1	CH-0979A	5000 ug/mL 05/31/17	MeOH	Bms 04/09/15	2 x 1mL
V738	Unleaded Gasoline	RESTEK	30205	A0101022	50,000 ug/mL 02/28/21	MeOH	Bms 04/10/15	2 x 1mL
V739	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150506001	1000-10000 ug/mL, 8/4/15	MeOH	RD 5/11/15	2x/mL
V740	VOC 8260 Additions	SPEX	VO-CTWI-12	TS150506002	1000-10000 ug/mL, 8/4/15	MeOH	RD 5/11/15	2x/mL
V741	VOC 8260 Special Additions	SPEX	VO-CTWI-5	SM150526009	1000-50000 ug/mL 11/22/15	MeOH	RD 6/2/15	2x/mL

* = If multiple vials of the same lot number and expiration date are received the standard will be given one CTI Standard # and each vial will have a alpha designation asigned to it. (Example = Three vials of DRO standard solution, CTI001A-C)

1 = If multiple analytes and all of the concentrations vary, mark VARIES.

RD 6/2/15