Quantitation Report (LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV052819\
Data File : VV011065.D
Acq On : 28 May 2019 15:16
Operator : SY/MD
Sample : K3016-25
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51H1

Quant Time: May 29 02:37:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis
QLast Update : Wed May 29 02:15:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	464415	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	443072	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	212322	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.32	65	154899	24.33	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 97.32%			
7) Chloroethane-d5	1.56	69	111038	24.43	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 97.72%			
10) 1,1-Dichloroethene-d2	2.12	63	272290	22.99	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery = 91.96%			
20) 2-Butanone-d5	3.94	46	118493	53.99	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery = 107.98%			
24) Chloroform-d	4.40	84	275262	24.44	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery = 97.76%			
26) 1,2-Dichloroethane-d4	5.08	65	181230	25.17	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 100.68%			
29) Benzene-d6	5.09	84	646736	24.93	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery = 99.72%			
33) 1,2-Dichloropropane-d6	6.12	67	207265	25.11	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery = 100.44%			
37) Toluene-d8	7.36	98	603561	25.24	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 100.96%			
38) trans-1,3-Dichloropropene-	7.66	79	93807	24.39	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery = 97.56%			
39) 2-Hexanone-d5	8.13	63	90237	50.18	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery = 100.36%			
48) 1,1,2,2-Tetrachloroethane-	10.26	84	175082	24.67	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery = 98.68%			
61) 1,2-Dichlorobenzene-d4	11.67	152	208327	24.81	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery = 99.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.14	85	69963	9.239	ug/L	99
3) Chloromethane	1.25	50	93361	12.498	ug/L	100
5) Vinyl chloride	1.32	62	163039	23.649	ug/L	99
6) Bromomethane	1.51	94	45050	15.163	ug/L	99
8) Chloroethane	1.58	64	33540	8.968	ug/L	99
9) Trichlorofluoromethane	1.76	101	98271	10.642	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	105174	21.225	ug/L	98
12) 1,1-Dichloroethene	2.13	96	76227	16.349	ug/L #	79
15) Methyl Acetate	2.46	43	77802	21.682	ug/L #	100
16) Methylene chloride	2.53	84	139755	20.584	ug/L	99
17) Methyl tert-butyl Ether	2.80	73	707628	40.516	ug/L	99
21) 2-Butanone	4.02	43	259276	84.685	ug/L	94
25) Chloroform	4.42	83	262567	20.052	ug/L	98
30) Cyclohexane	4.72	56	244902	19.082	ug/L	99
34) Benzene	5.14	78	1070394	39.951	ug/L	100
35) Trichloroethene	5.96	95	340397	48.645	ug/L	98
44) Toluene	7.43	91	1411422	48.451	ug/L	100

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Operator : SY/MD
Sample : K3016-25
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_V
ClientSampleId : A51H1

Quant Time: May 29 02:37:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis
QLast Update : Wed May 29 02:15:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1,2-Trichloroethane	7.88	97	102112	19.296	ug/L	98
47) Tetrachloroethene	8.02	164	49024	9.714	ug/L	97
52) Chlorobenzene	8.92	112	221719	12.281	ug/L	100
53) Ethylbenzene	9.05	91	792575	23.866	ug/L	100
54) m,p-Xylene	9.18	106	348163	28.145	ug/L	98
55) o-xylene	9.59	106	292301	24.317	ug/L	98
56) Styrene	9.60	104	207799	10.196	ug/L	96
57) Isopropylbenzene	9.97	105	615475	19.185	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	79550	11.411	ug/L	99
62) Bromoform	9.77	173	38854	10.878	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	267884	19.178	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	134441	9.672	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	156644	19.166	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	217699	29.108	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (LSC Reviewed)

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Acq On : 28 May 2019 15:16
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Sample : K3016-25
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ALS Vial : 1 Sample Multiplier: 1

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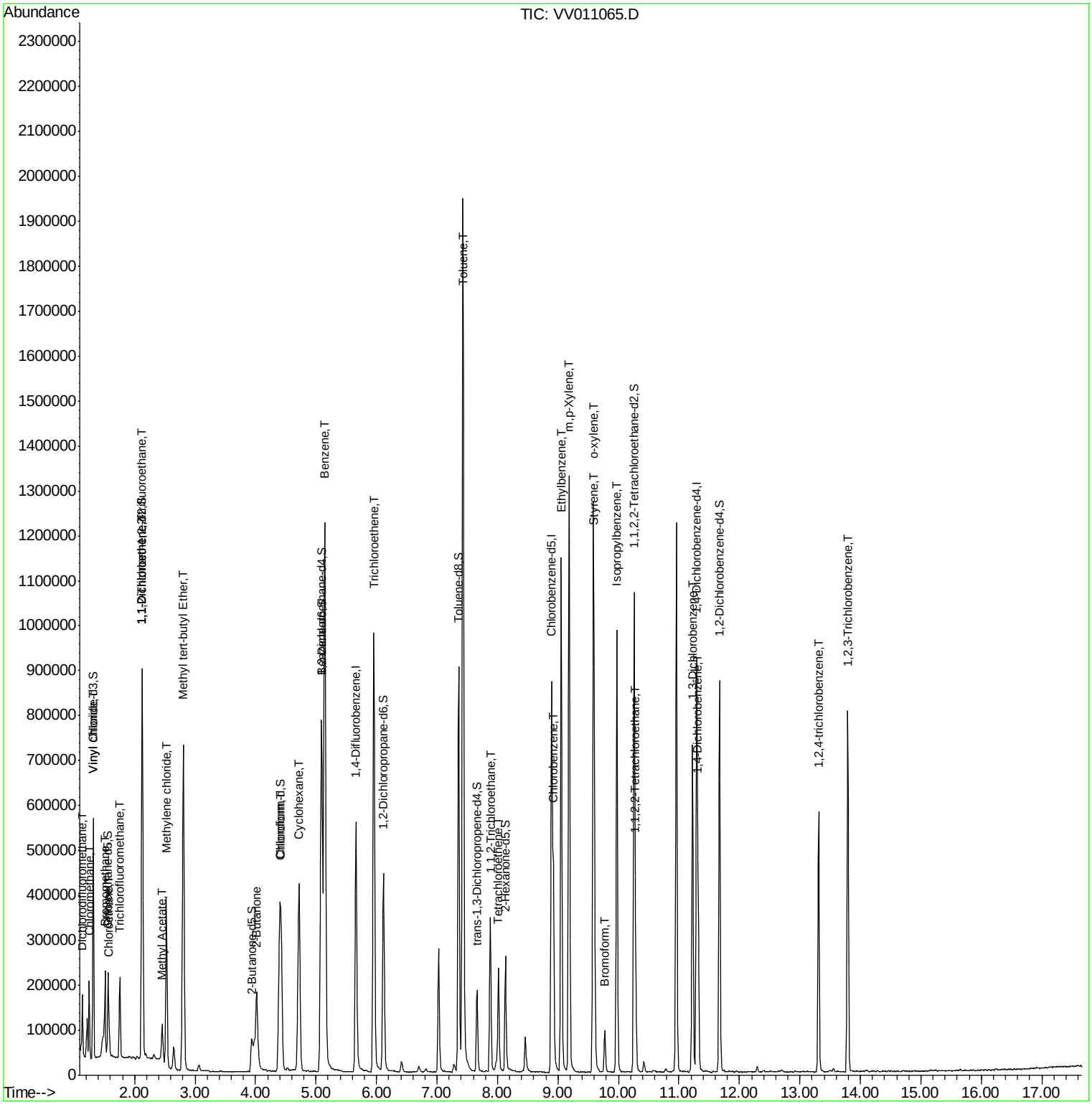
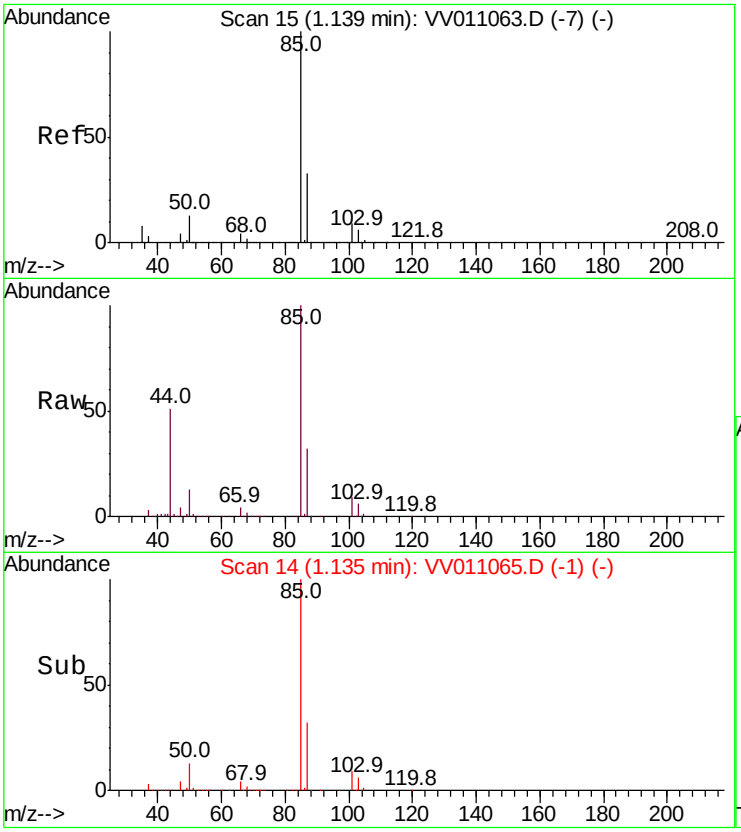
Quant Title : VOC Analysis
QLast Update : Wed May 29 02:15:20 2019
Response via : Initial Calibration



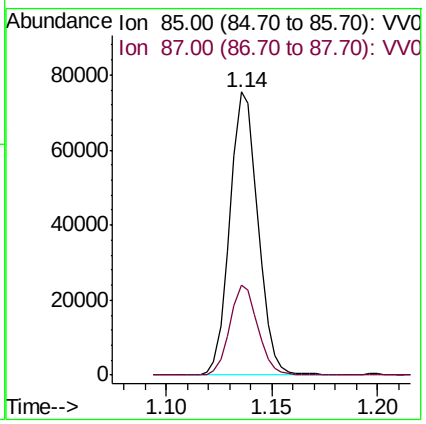


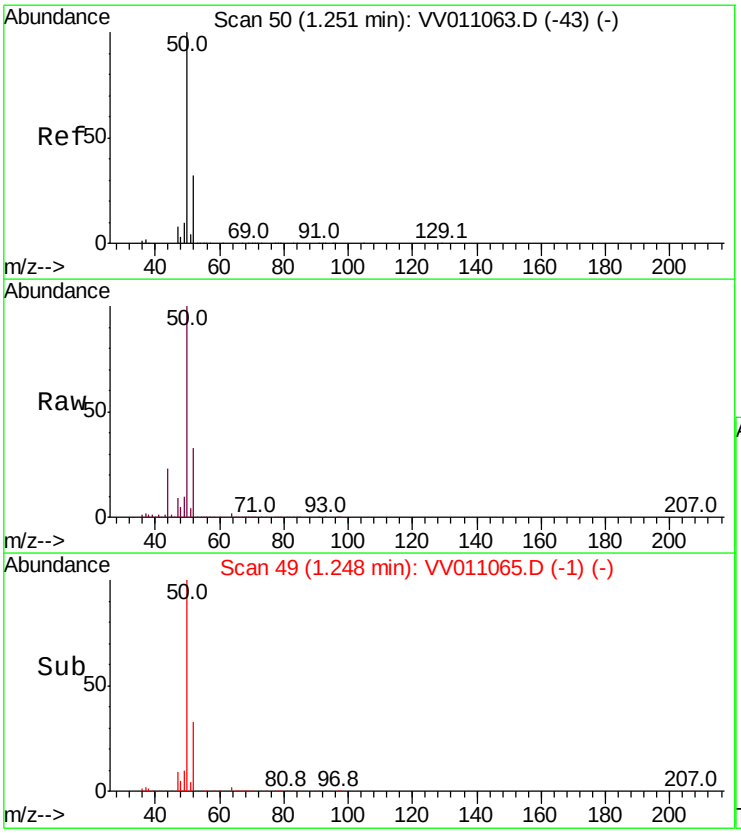
#2
Dichlorodifluoromethane
Concen: 9.239 ug/L
RT: 1.14 min Scan# 14
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 85 Resp: 69963

Ion	Ratio	Lower	Upper
85	100		
87	31.5	22.5	41.9

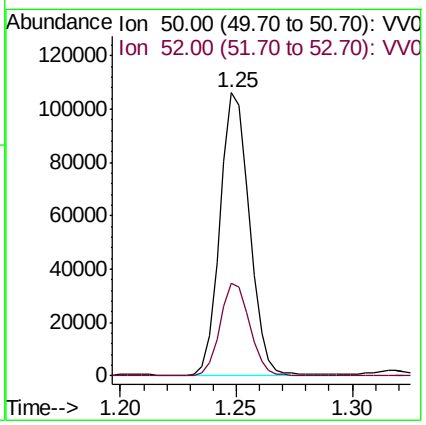


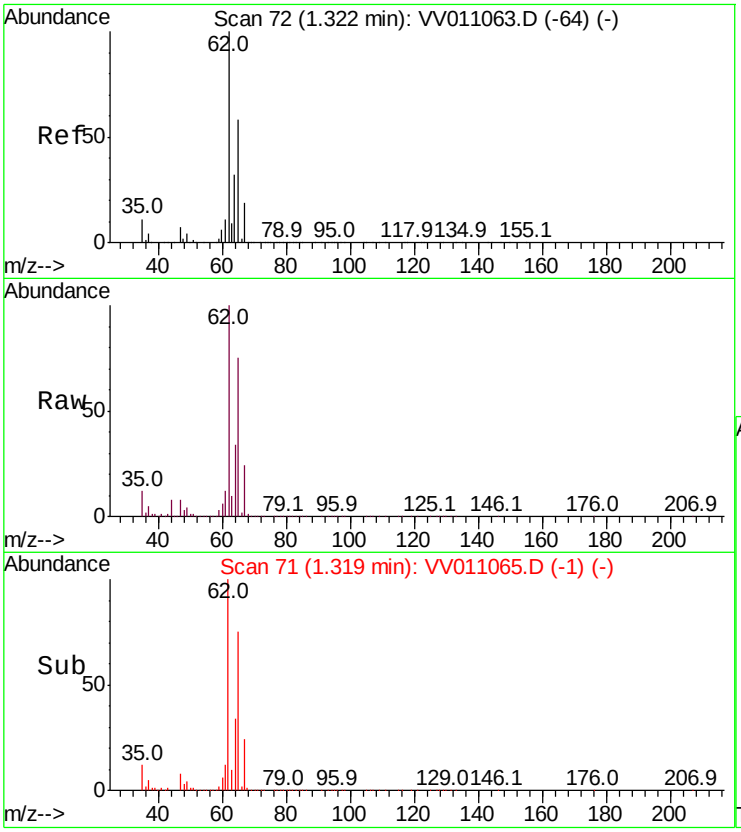


#3
Chloromethane
Concen: 12.498 ug/L
RT: 1.25 min Scan# 49
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 50 Resp: 93361

Ion	Ratio	Lower	Upper
50	100		
52	32.7	22.9	42.5



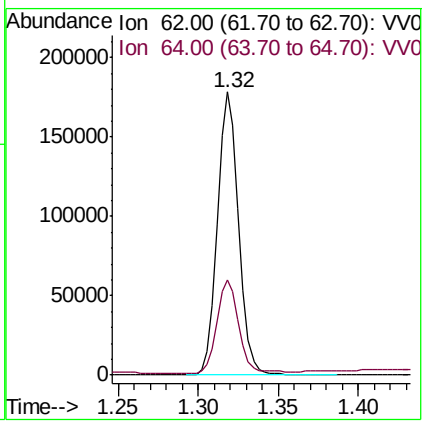


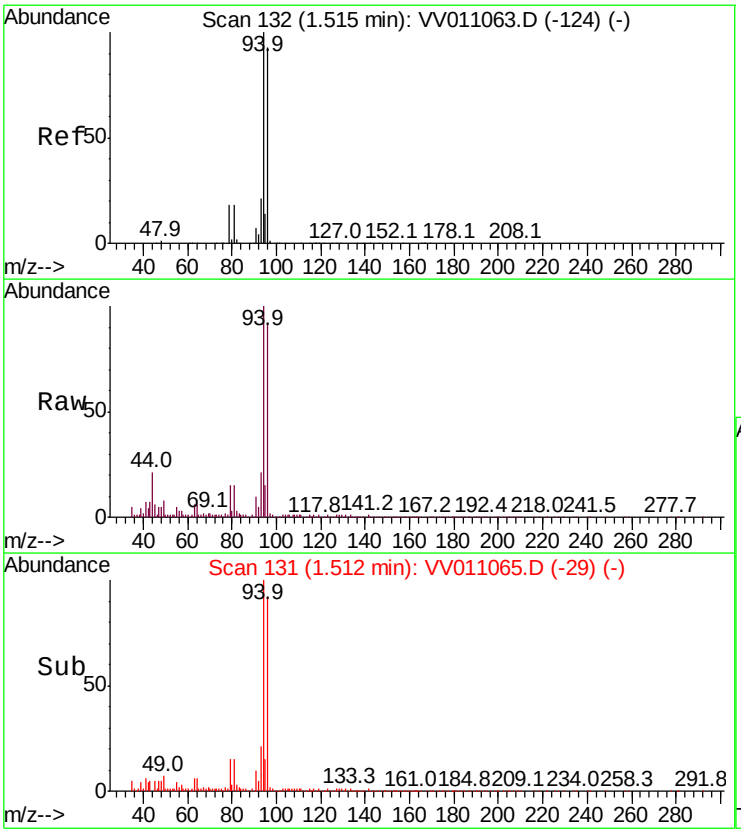
#5
Vinyl chloride
Concen: 23.649 ug/L
RT: 1.32 min Scan# 71
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 62 Resp: 163039

Ion	Ratio	Lower	Upper
62	100		
64	33.8	23.4	43.6

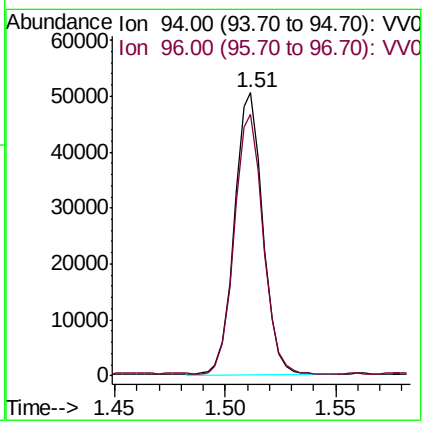


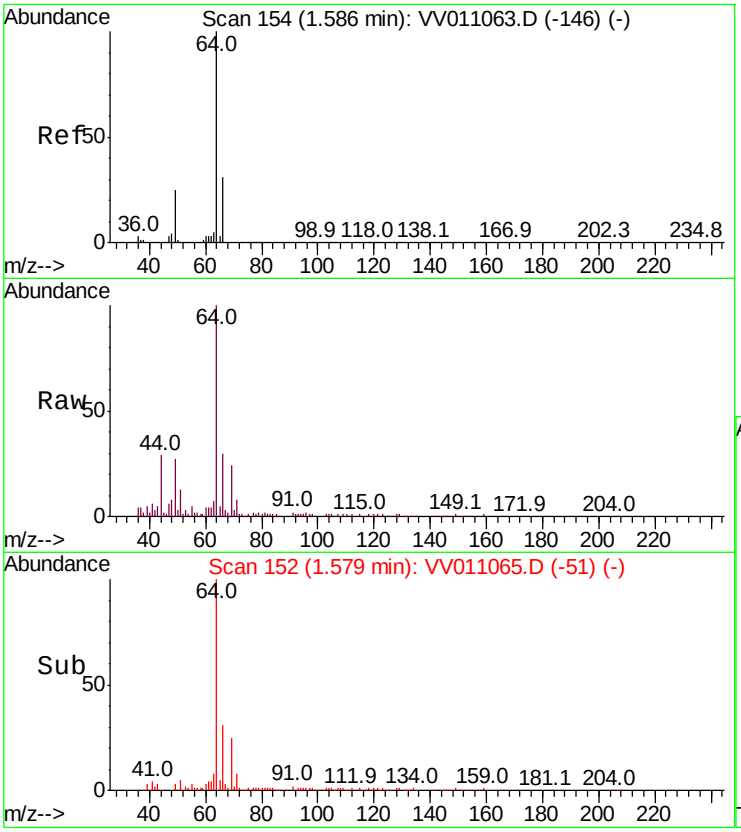


#6
Bromomethane
Concen: 15.163 ug/L
RT: 1.51 min Scan# 131
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 94 Resp: 45050

Ion	Ratio	Lower	Upper
94	100		
96	93.4	9.5	179.7



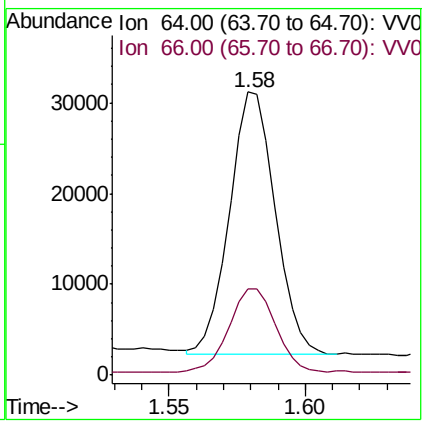


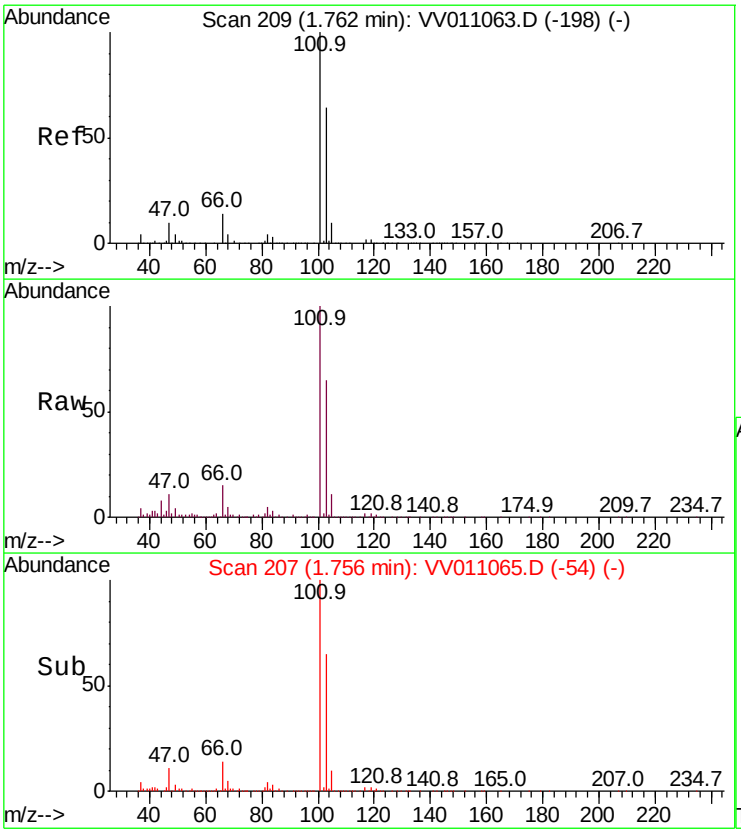
#8
Chloroethane
Concen: 8.968 ug/L
RT: 1.58 min Scan# 152
Delta R.T. -0.01 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 64 Resp: 33540

Ion	Ratio	Lower	Upper
64	100		
66	30.4	21.7	40.3

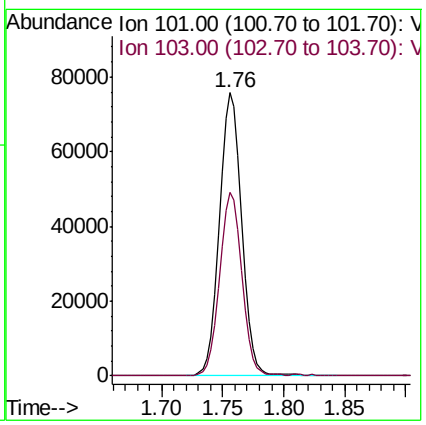


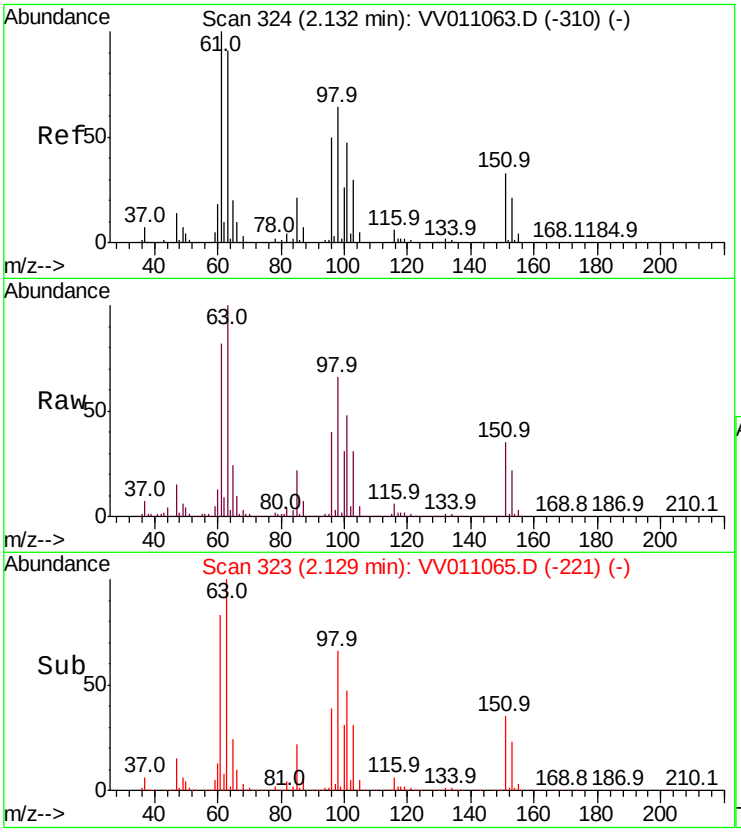


#9
Trichlorofluoromethane
Concen: 10.642 ug/L
RT: 1.76 min Scan# 207
Delta R.T. -0.01 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion:101 Resp: 98271

Ion	Ratio	Lower	Upper
101	100		
103	64.1	44.4	82.4



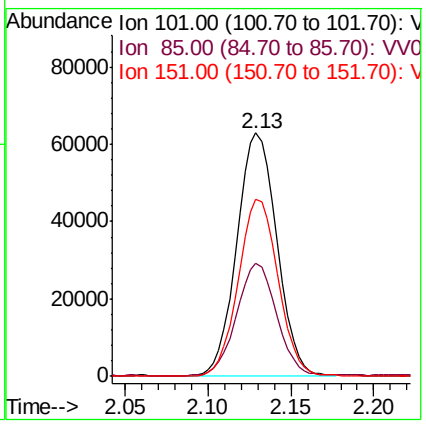


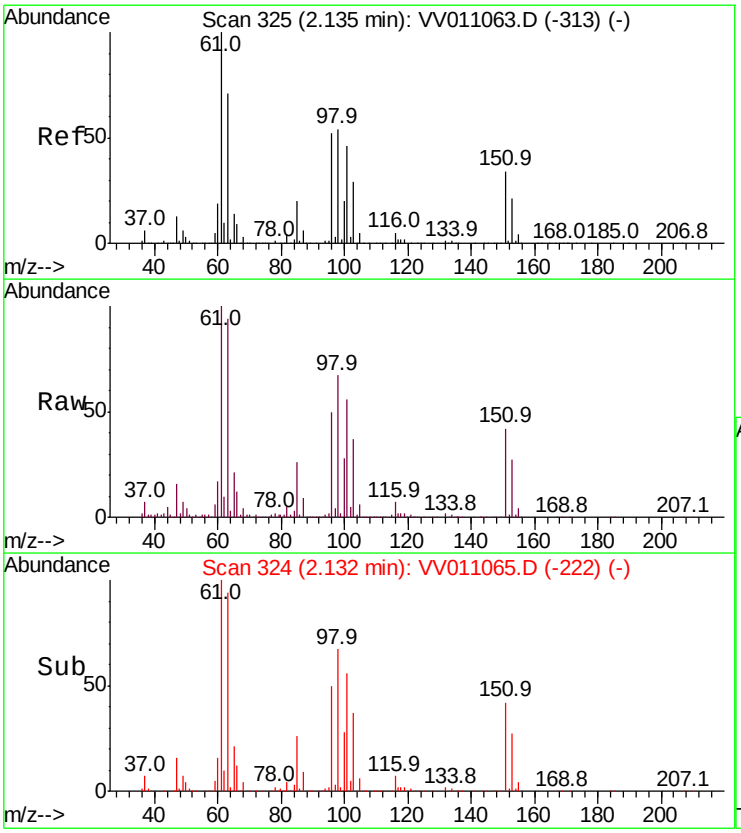
#11
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 21.225 ug/L
RT: 2.13 min Scan# 323
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument : MSVOA_V
ClientSampleId : A51H1

Tgt Ion:101 Resp: 105174

Ion	Ratio	Lower	Upper
101	100		
85	45.6	36.1	54.1
151	72.9	56.6	85.0

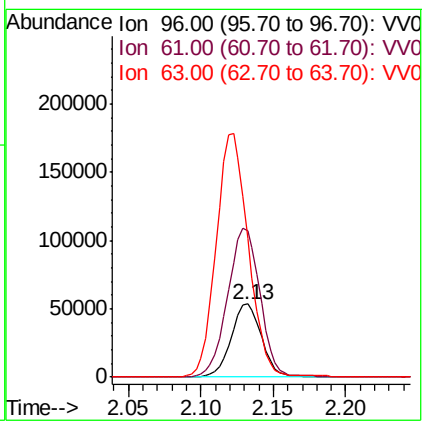


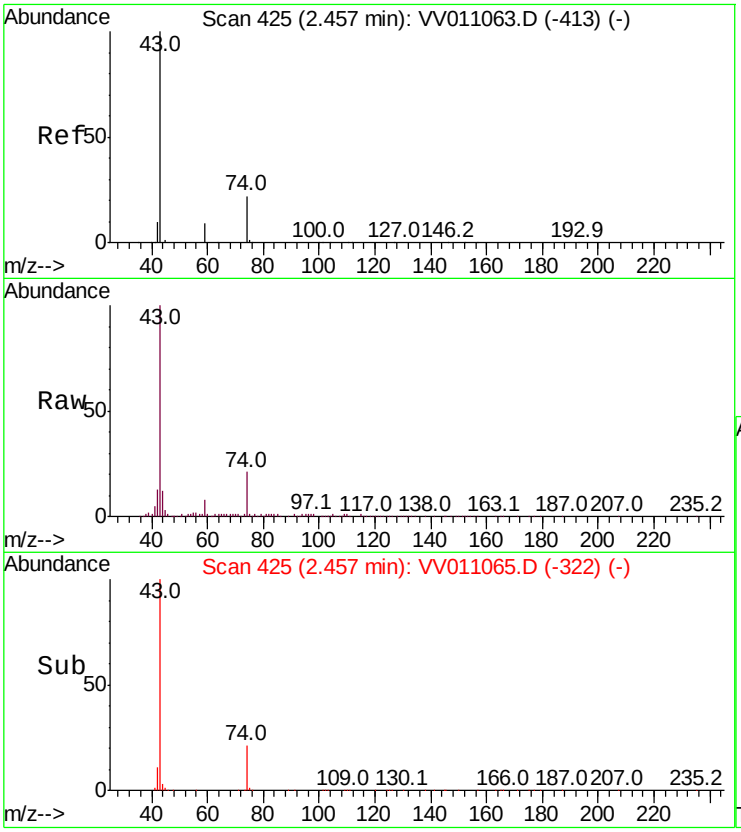


#12
1,1-Dichloroethene
Concen: 16.349 ug/L
RT: 2.13 min Scan# 324
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 96 Resp: 76227

Ion	Ratio	Lower	Upper
96	100		
61	201.0	134.1	249.1
63	189.2	98.1	182.3#



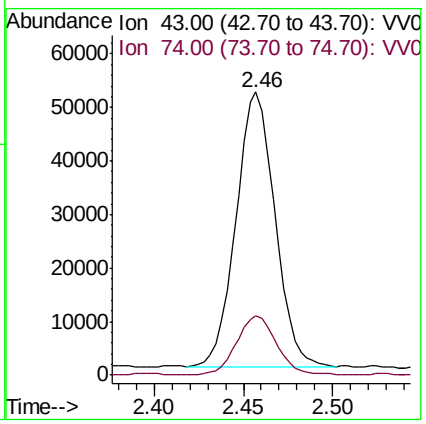


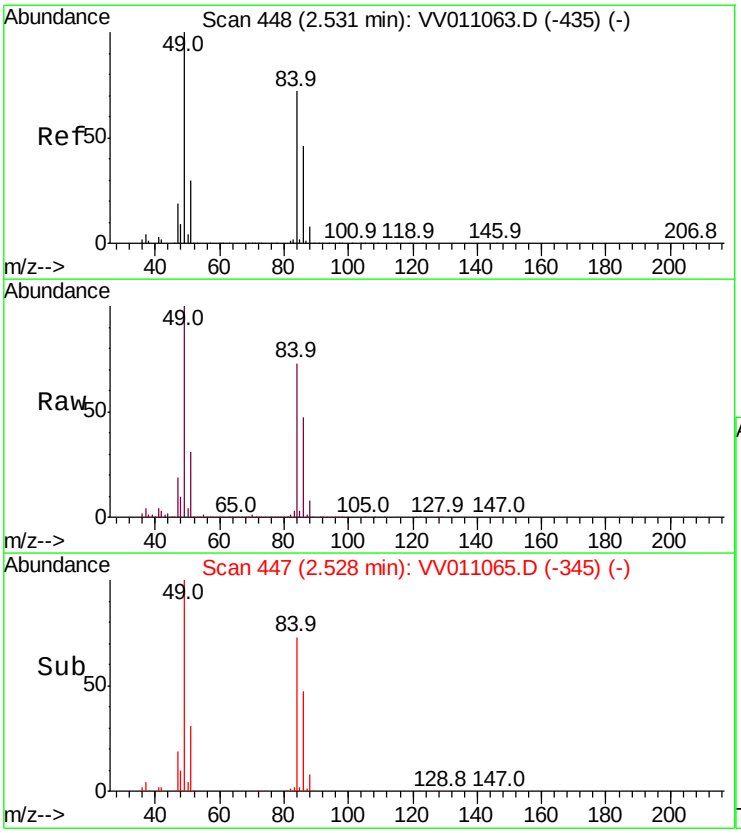
#15
Methyl Acetate
Concen: 21.682 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument : MSVOA_V
ClientSampleId : A51H1

Tgt Ion: 43 Resp: 77802

Ion	Ratio	Lower	Upper
43	100		
74	22.3	0.0	0.0#

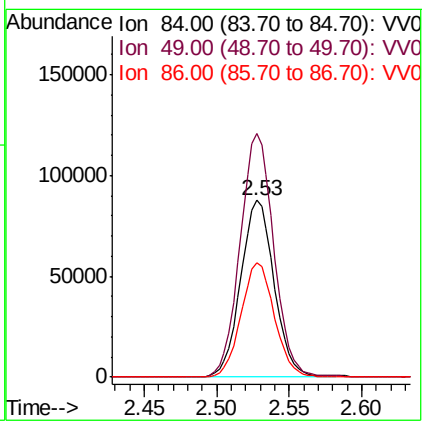


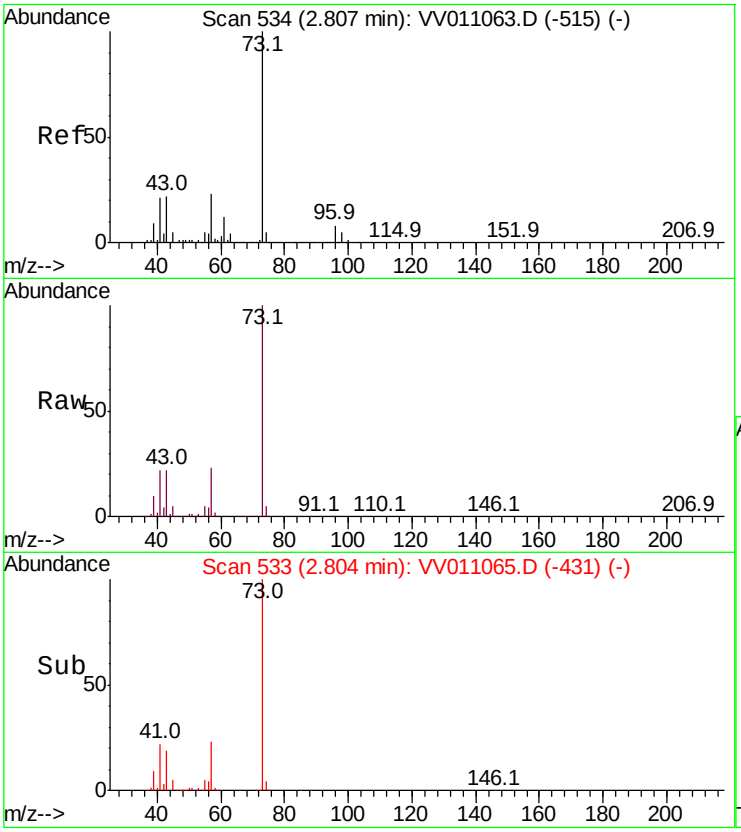


#16
Methylene chloride
Concen: 20.584 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 84 Resp: 139755

Ion	Ratio	Lower	Upper
84	100		
49	137.7	98.0	182.0
86	64.6	45.4	84.4



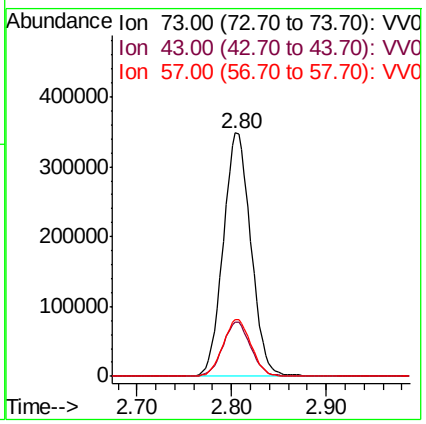


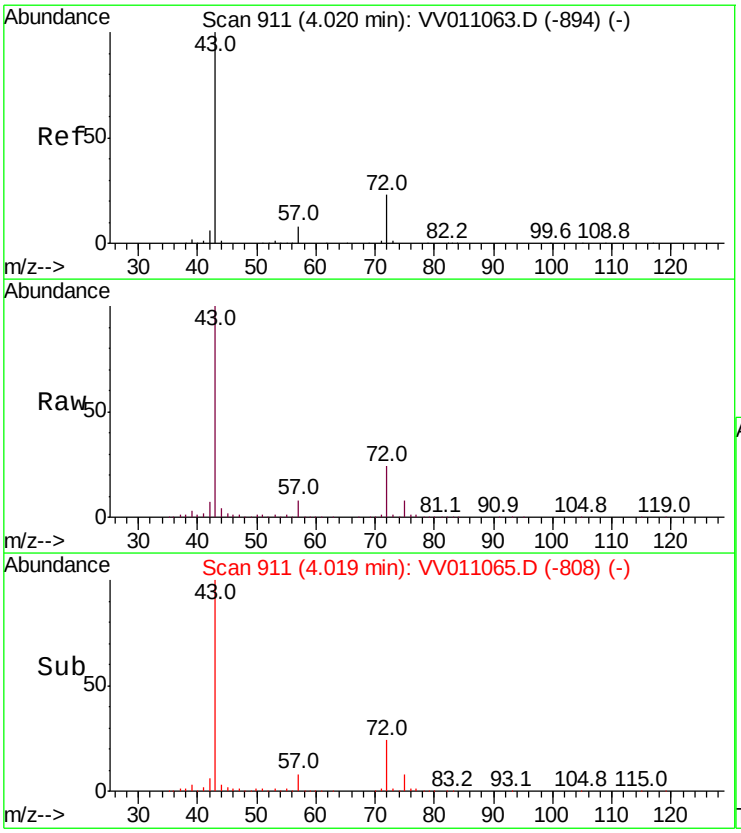
#17
Methyl tert-butyl Ether
Concen: 40.516 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 73 Resp: 707628

Ion	Ratio	Lower	Upper
73	100		
43	22.1	17.2	25.8
57	23.5	18.5	27.7

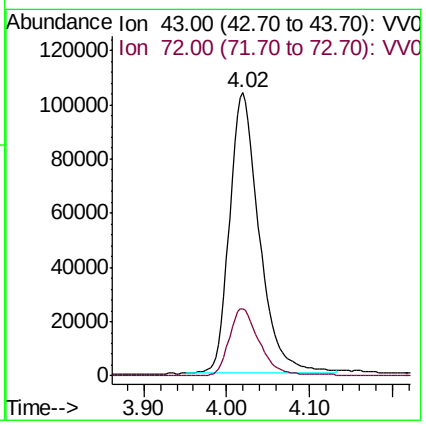


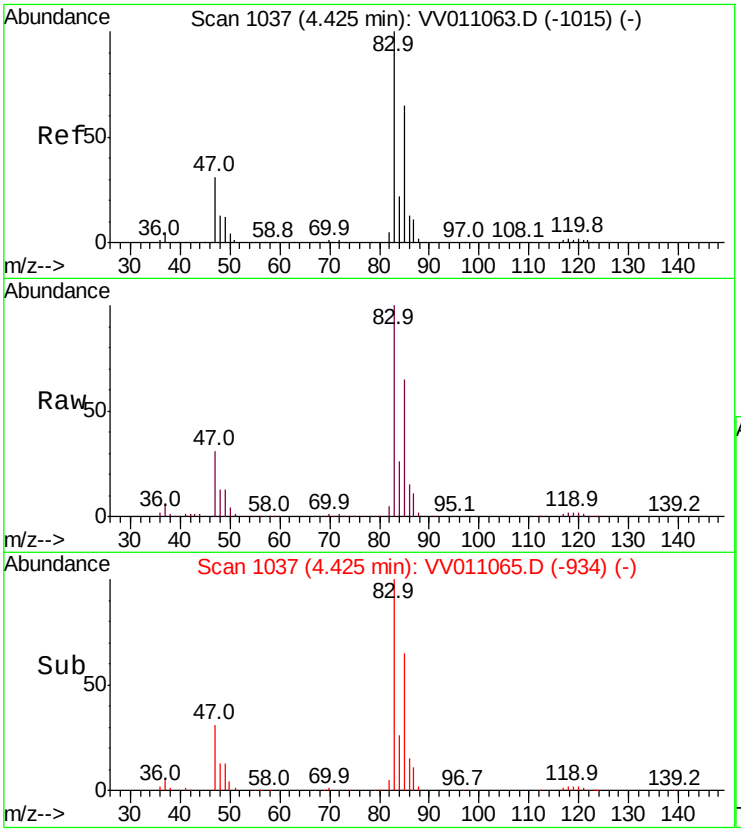


#21
2-Butanone
Concen: 84.685 ug/L
RT: 4.02 min Scan# 911
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 43 Resp: 259276

Ion	Ratio	Lower	Upper
43	100		
72	24.2	10.7	31.9



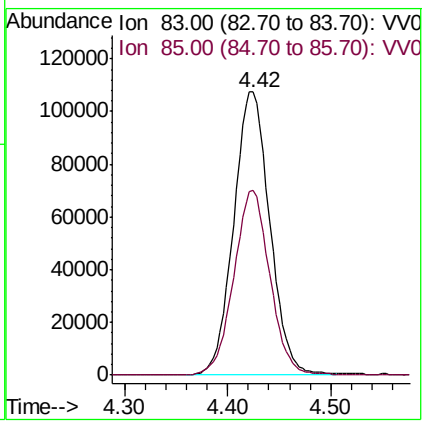


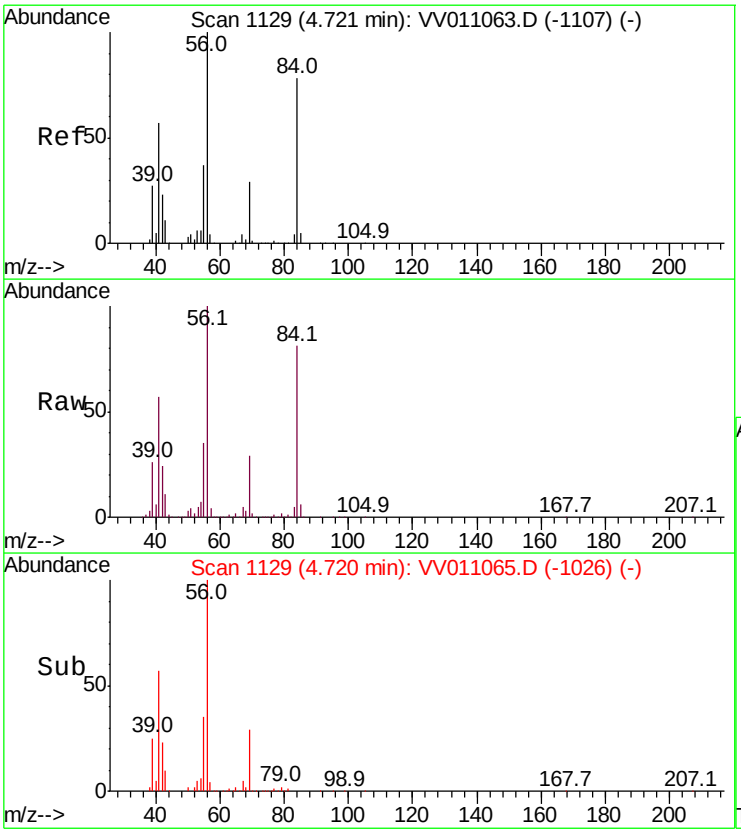
#25
Chloroform
Concen: 20.052 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 83 Resp: 262567

Ion	Ratio	Lower	Upper
83	100		
85	64.8	46.2	85.8

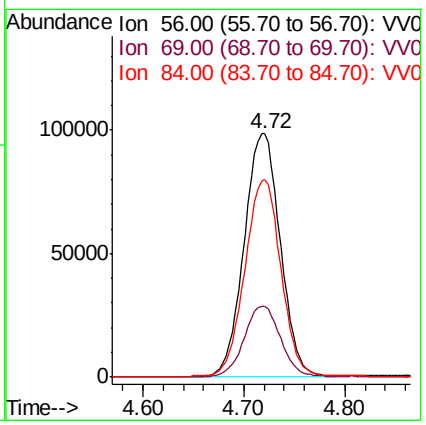


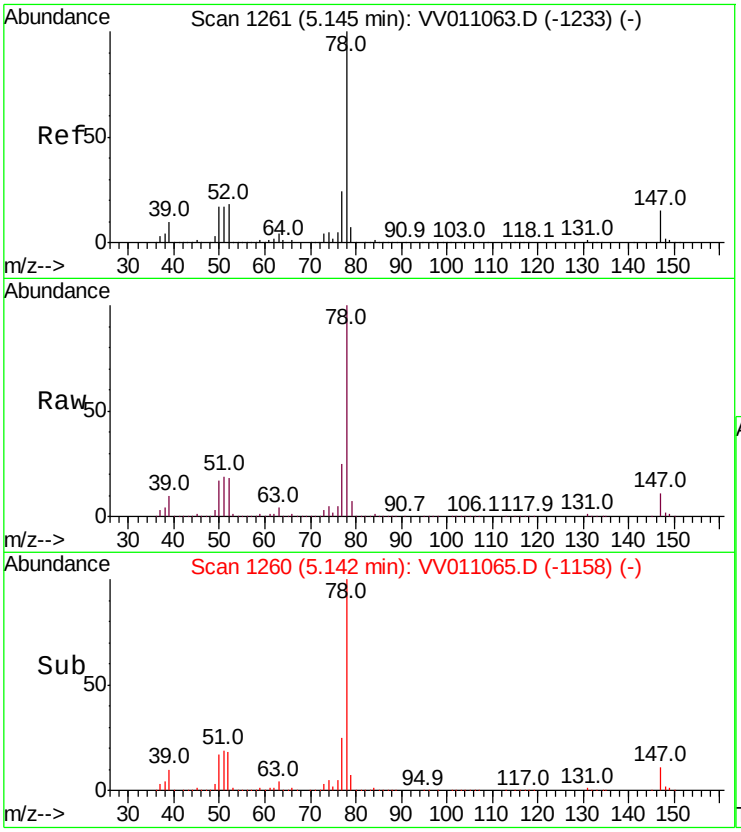


#30
Cyclohexane
Concen: 19.082 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 56 Resp: 244902

Ion	Ratio	Lower	Upper
56	100		
69	29.5	23.2	34.8
84	80.0	63.2	94.8

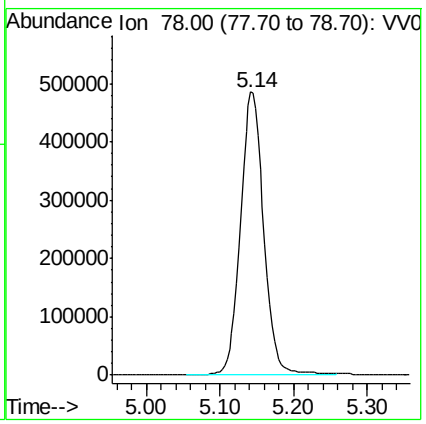


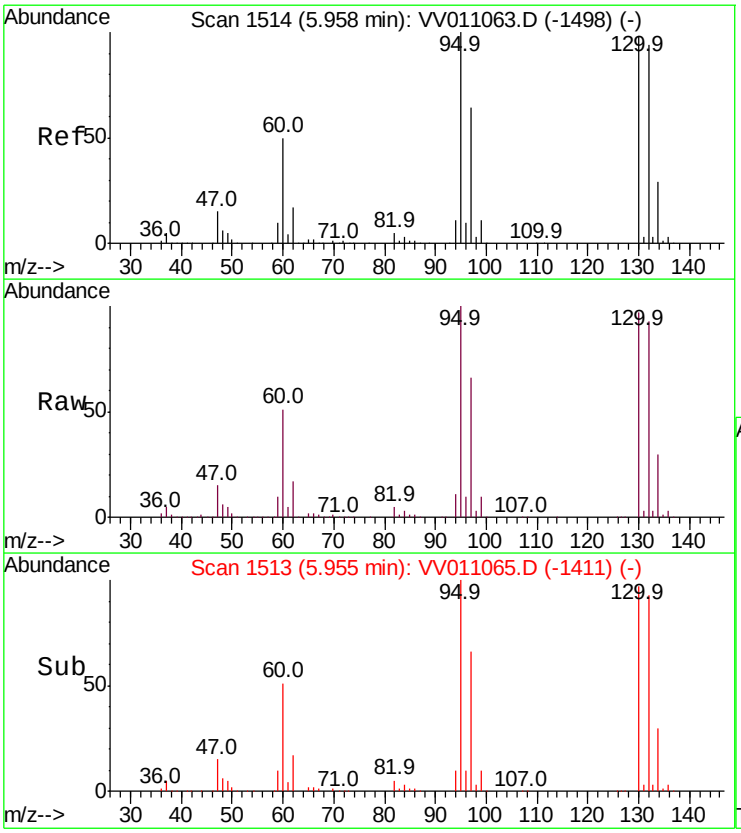


#34
Benzene
Concen: 39.951 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 78 Resp: 1070394

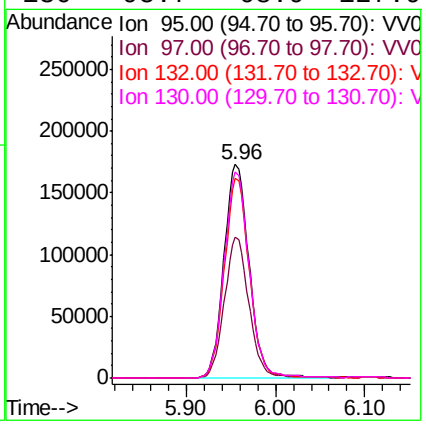


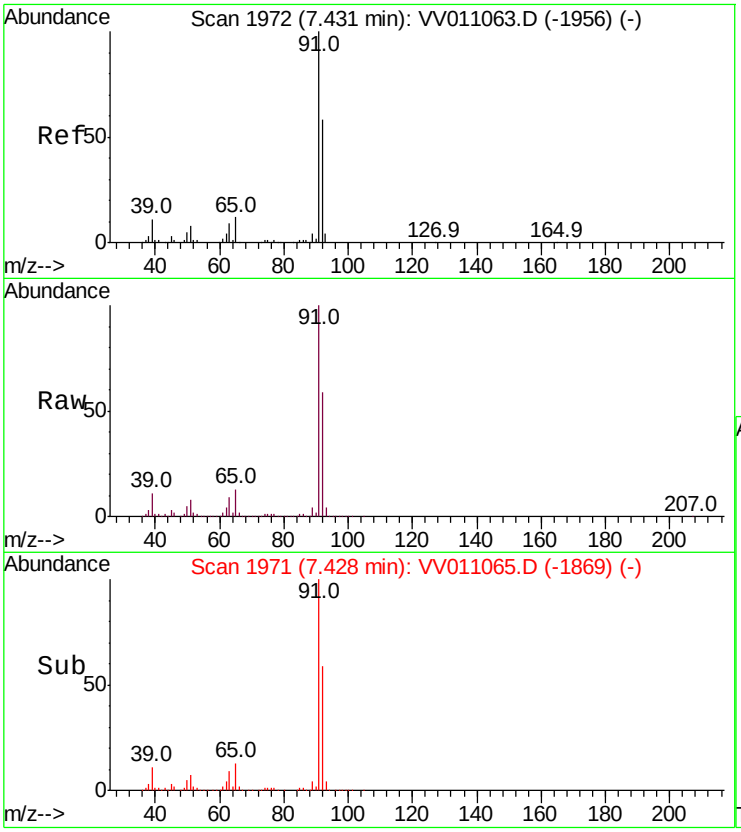


#35
Trichloroethene
Concen: 48.645 ug/L
RT: 5.96 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 95 Resp: 340397

Ion	Ratio	Lower	Upper
95	100		
97	64.0	45.4	84.4
132	91.8	66.1	122.8
130	95.7	68.9	127.9



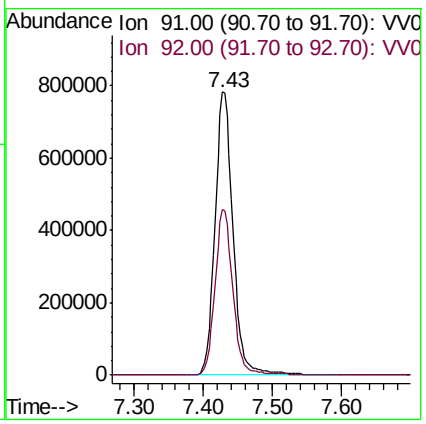


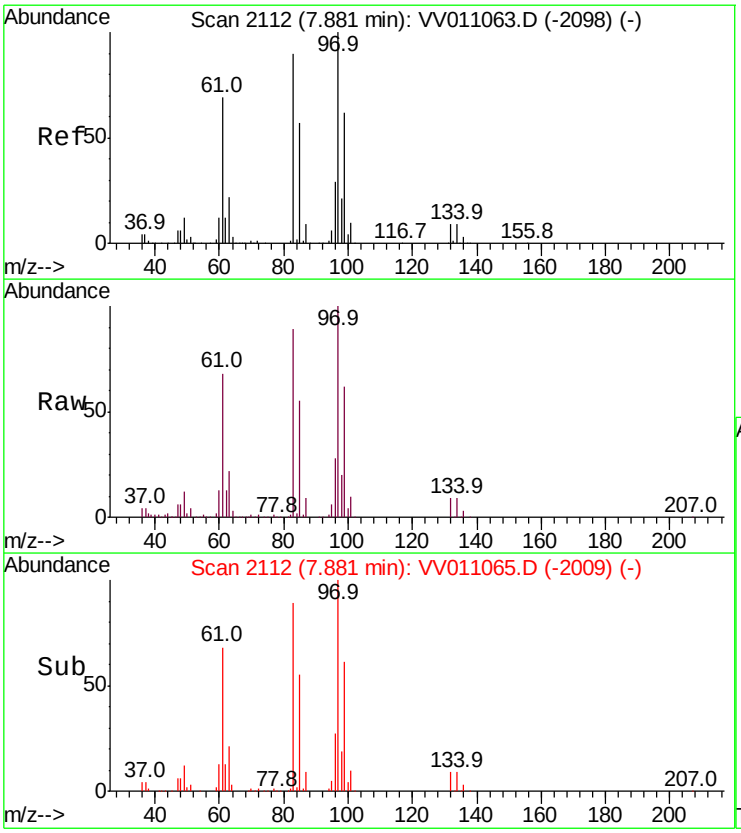
#44
Toluene
Concen: 48.451 ug/L
RT: 7.43 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 91 Resp: 1411422

Ion	Ratio	Lower	Upper
91	100		
92	58.6	41.0	76.2

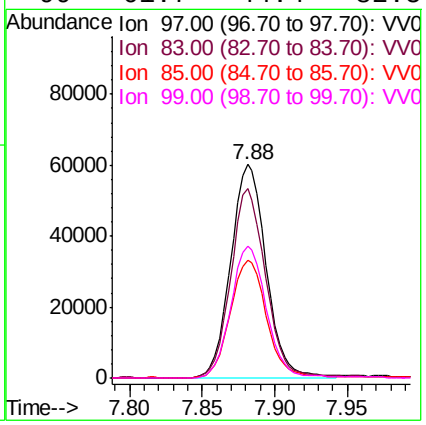


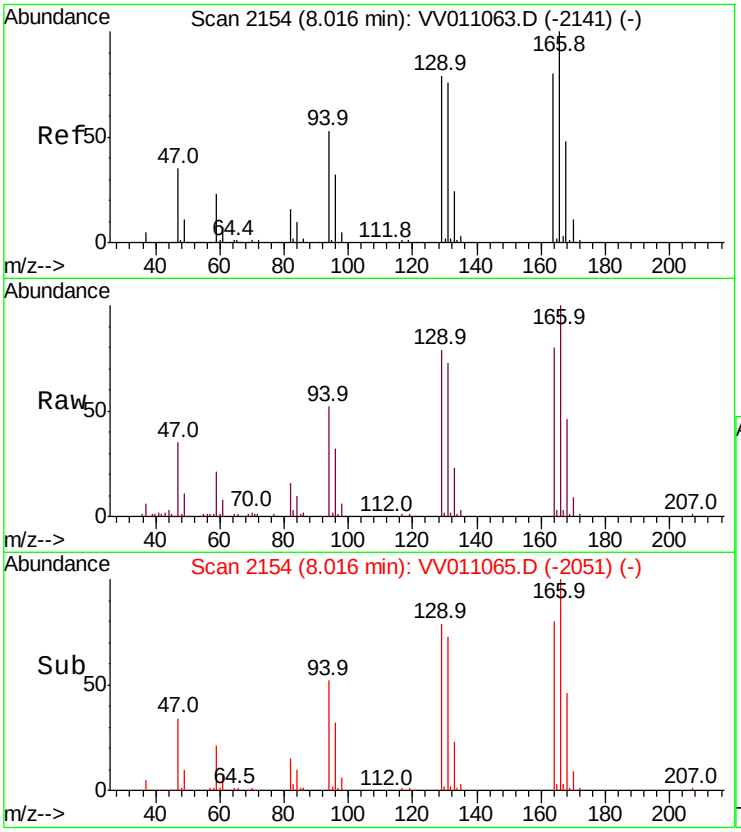


#46
1,1,2-Trichloroethane
Concen: 19.296 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 97 Resp: 102112

Ion	Ratio	Lower	Upper
97	100		
83	88.9	63.5	117.9
85	54.9	40.3	74.9
99	61.7	44.4	82.5



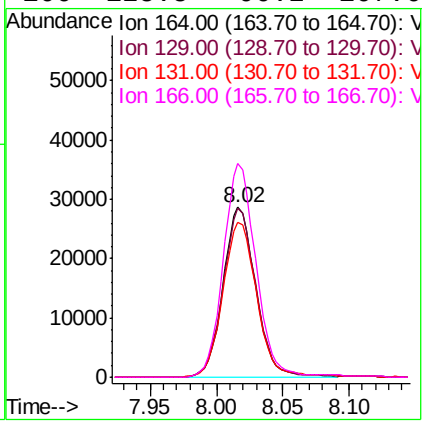


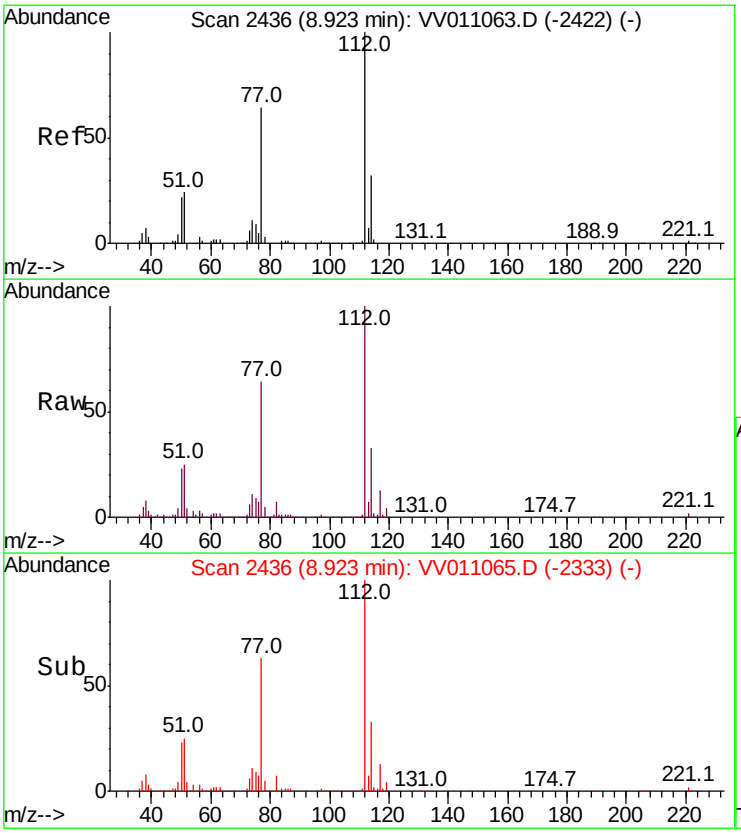
#47
Tetrachloroethene
Concen: 9.714 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument : MSVOA_V
ClientSampleId : A51H1

Tgt Ion:164 Resp: 49024

Ion	Ratio	Lower	Upper
164	100		
129	99.5	70.7	131.3
131	91.1	66.6	123.8
166	125.5	90.2	167.6

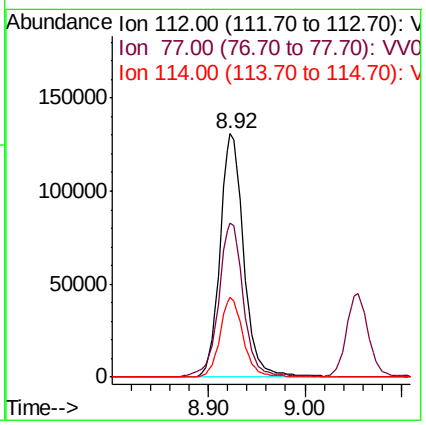


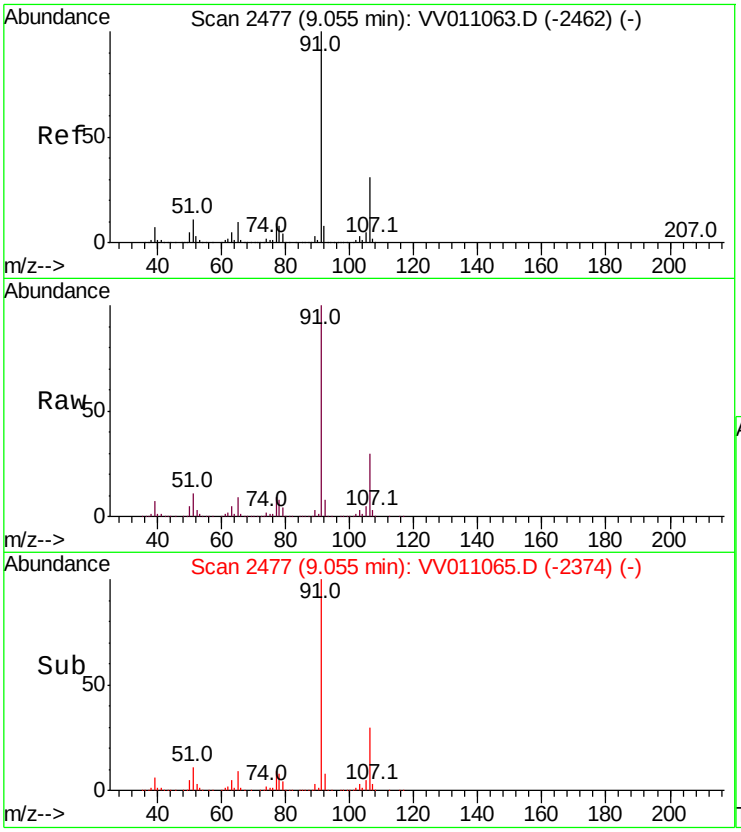


#52
Chlorobenzene
Concen: 12.281 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion:112 Resp: 221719

Ion	Ratio	Lower	Upper
112	100		
77	63.5	50.8	76.2
114	32.7	22.7	42.1



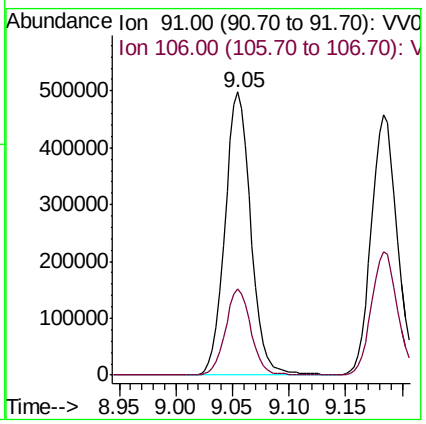


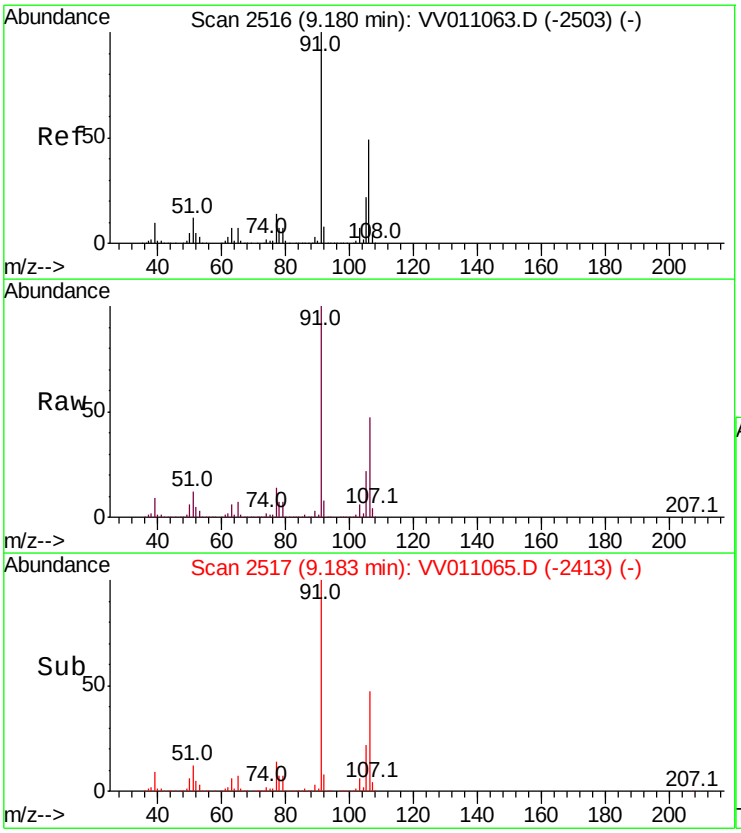
#53
Ethylbenzene
Concen: 23.866 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion: 91 Resp: 792575

Ion	Ratio	Lower	Upper
91	100		
106	30.4	21.3	39.6

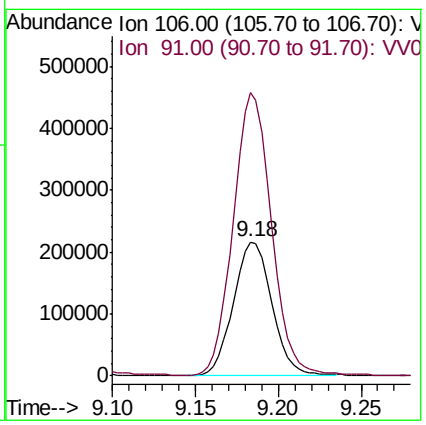


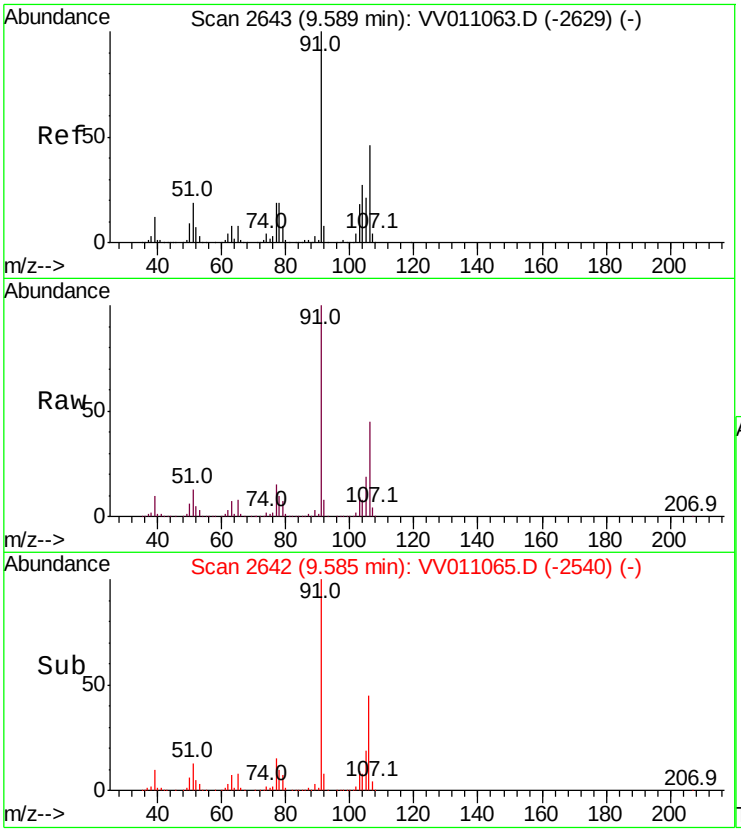


#54
m,p-Xylene
Concen: 28.145 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion:106 Resp: 348163

Ion	Ratio	Lower	Upper
106	100		
91	211.2	145.7	270.7



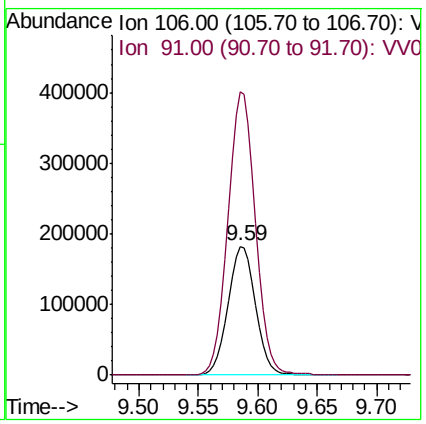


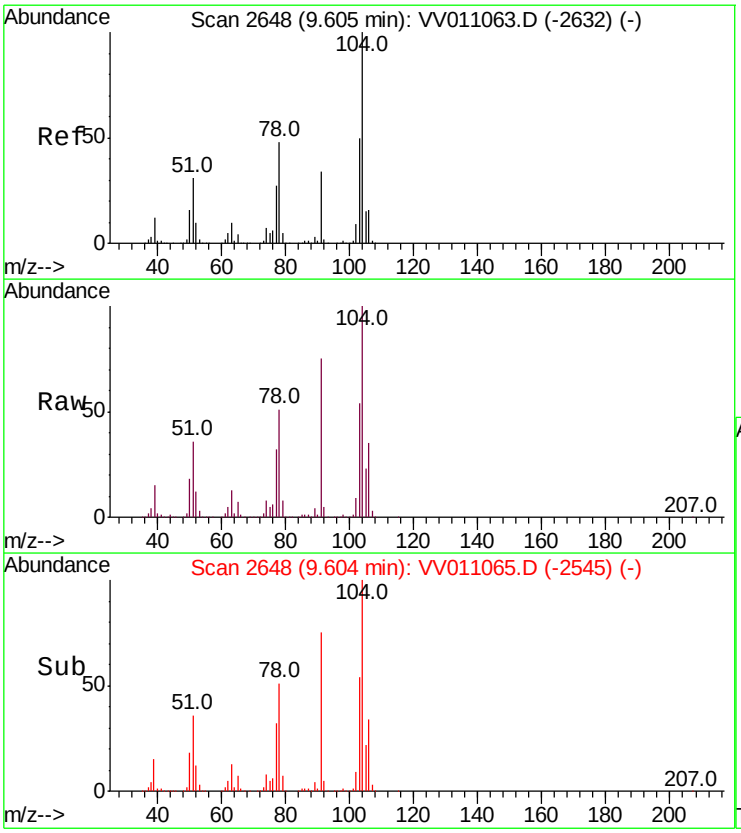
#55
o-xylene
Concen: 24.317 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion:106 Resp: 292301

Ion	Ratio	Lower	Upper
106	100		
91	220.3	151.5	281.3

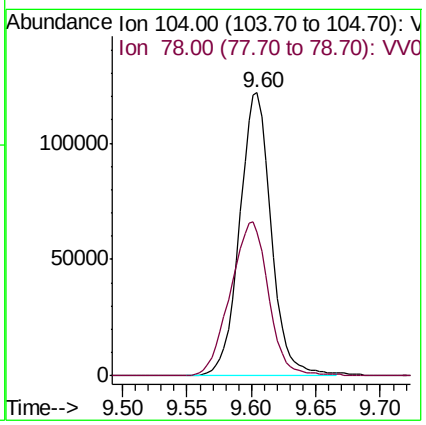


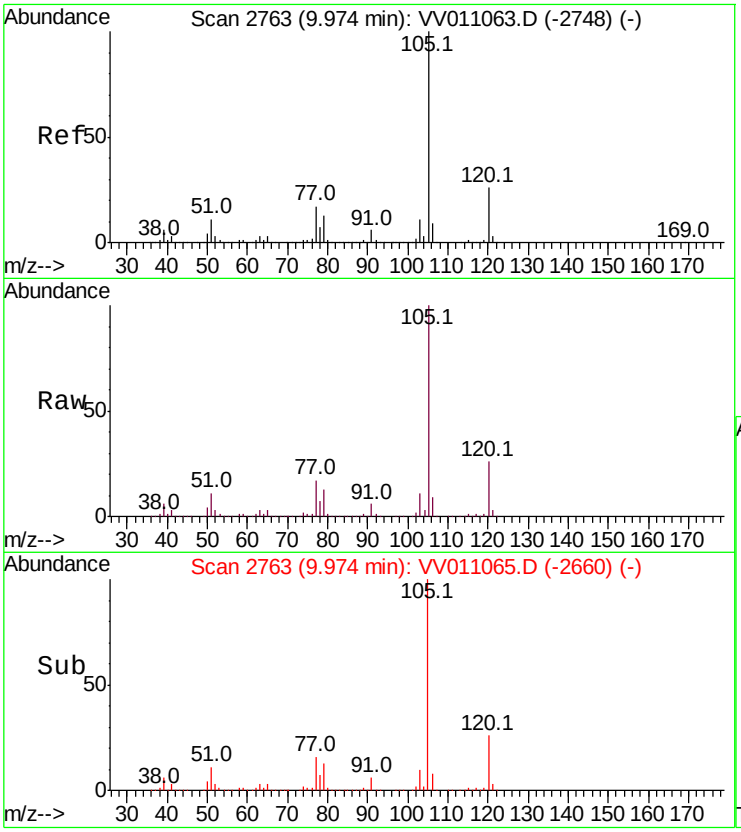


#56
Styrene
Concen: 10.196 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion:104 Resp: 207799

Ion	Ratio	Lower	Upper
104	100		
78	50.9	33.7	62.7



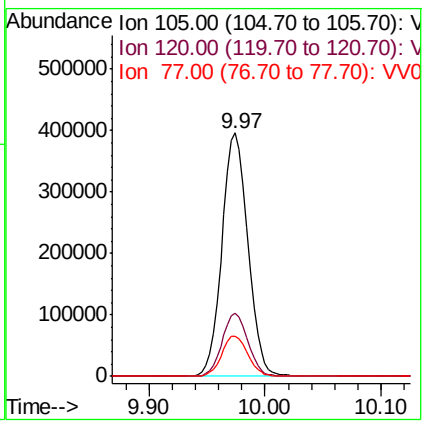


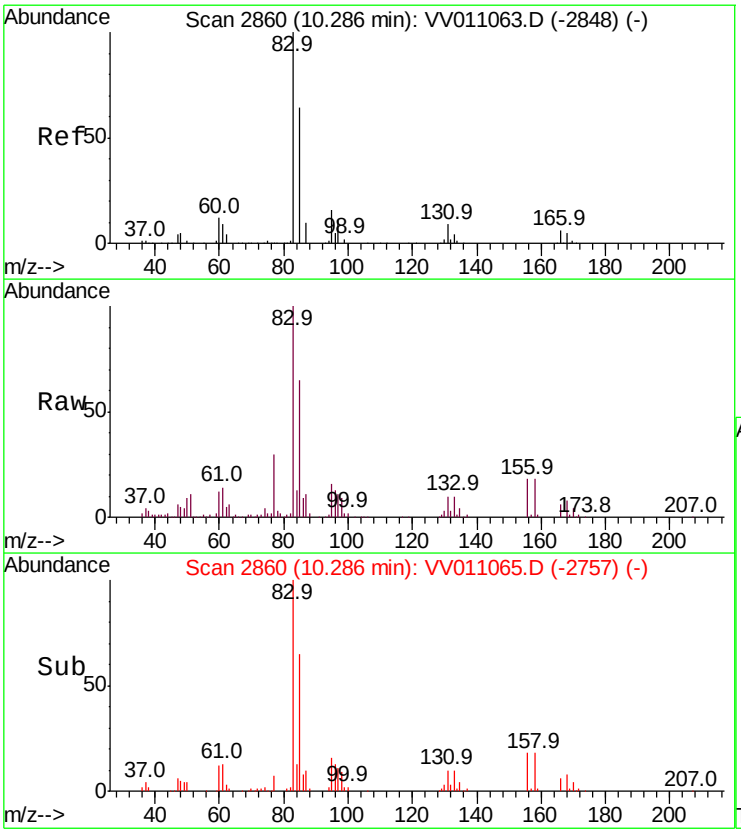
#57
Isopropylbenzene
Concen: 19.185 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument : MSVOA_V
ClientSampleId : A51H1

Tgt Ion:105 Resp: 615475

Ion	Ratio	Lower	Upper
105	100		
120	25.9	21.0	31.4
77	16.6	13.3	19.9

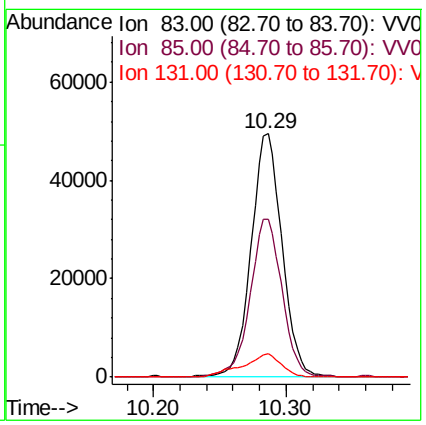


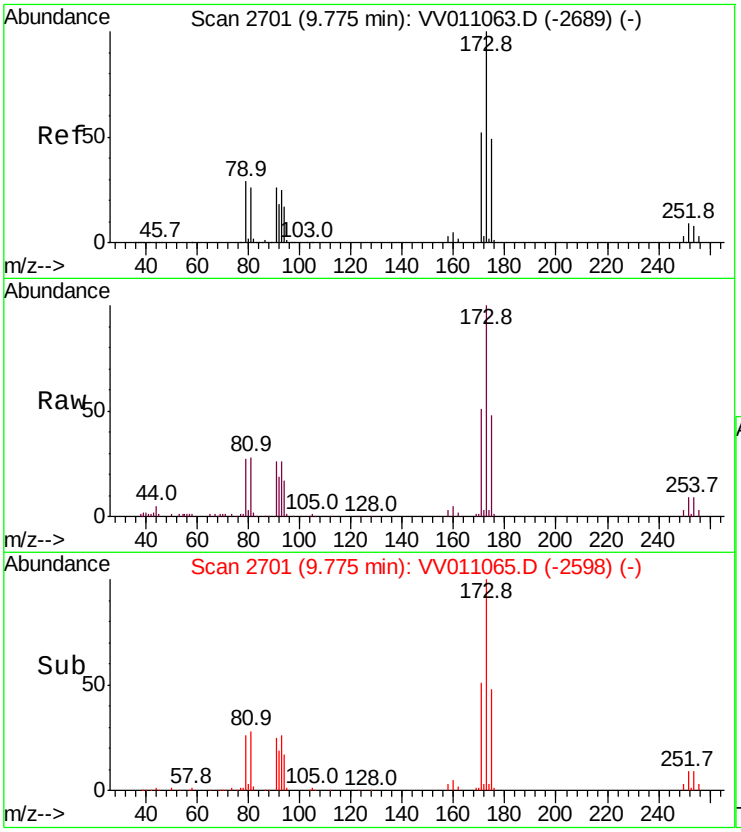


#58
1,1,2,2-Tetrachloroethane
Concen: 11.411 ug/L
RT: 10.29 min Scan# 2860
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion: 83 Resp: 79550

Ion	Ratio	Lower	Upper
83	100		
85	64.8	44.7	82.9
131	9.5	7.1	10.7



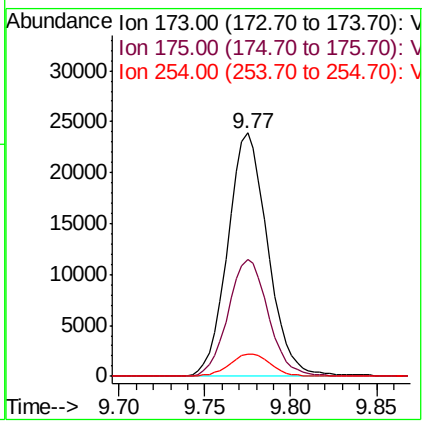


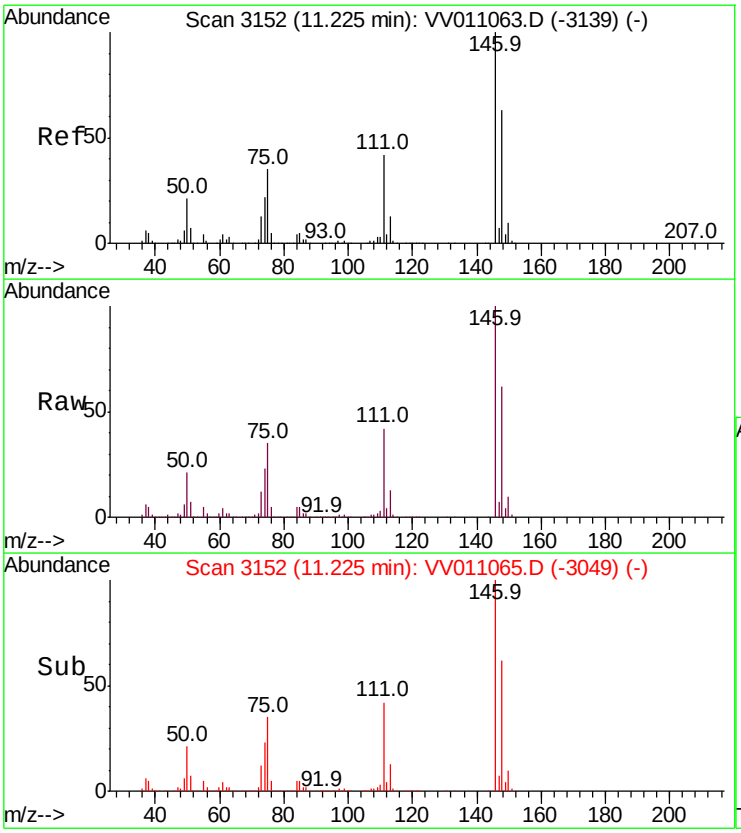
#62
Bromoform
Concen: 10.878 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion:173 Resp: 38854

Ion	Ratio	Lower	Upper
173	100		
175	48.2	39.0	58.4
254	9.2	7.0	10.4

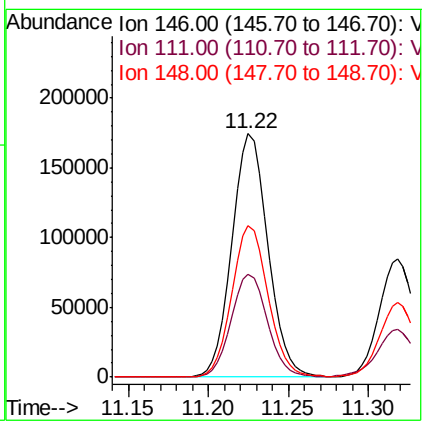


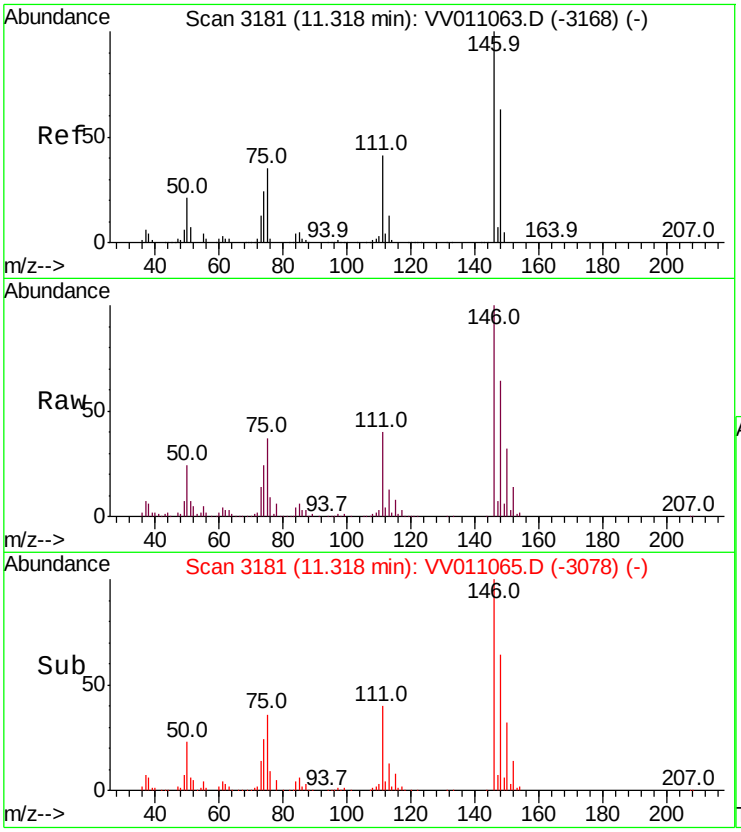


#63
1,3-Dichlorobenzene
Concen: 19.178 ug/L
RT: 11.22 min Scan# 3152
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion:146 Resp: 267884

Ion	Ratio	Lower	Upper
146	100		
111	42.4	29.6	55.0
148	62.2	44.1	81.9



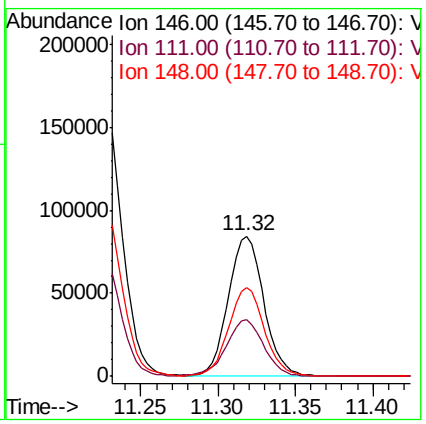


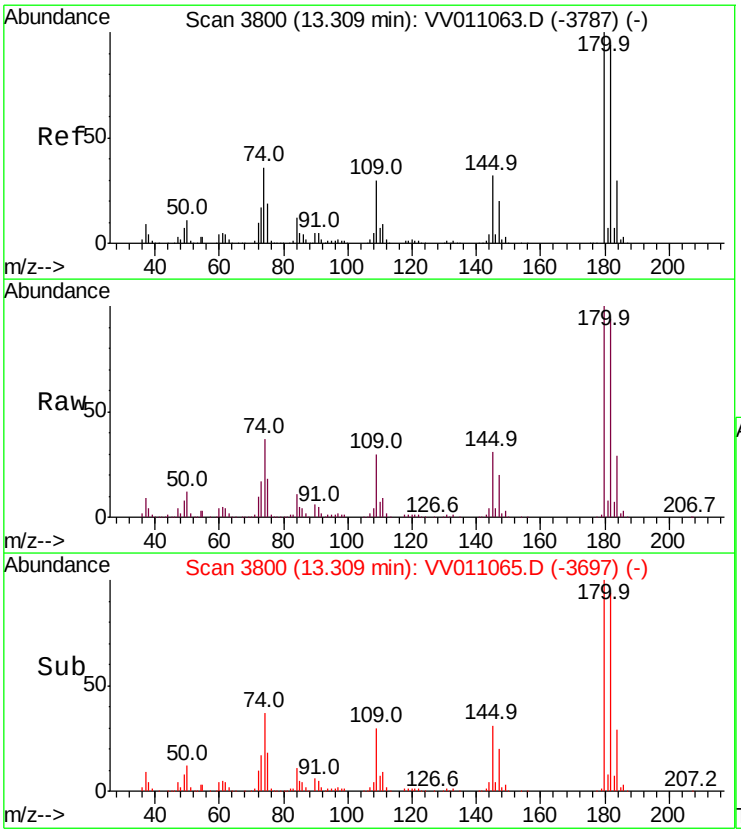
#64
1,4-Dichlorobenzene
Concen: 9.672 ug/L
RT: 11.32 min Scan# 3181
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion:146 Resp: 134441

Ion	Ratio	Lower	Upper
146	100		
111	40.1	28.8	53.4
148	63.7	44.4	82.5

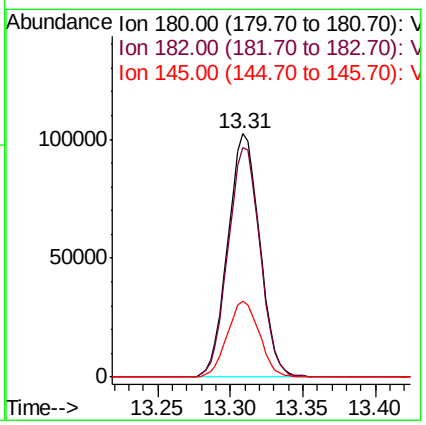


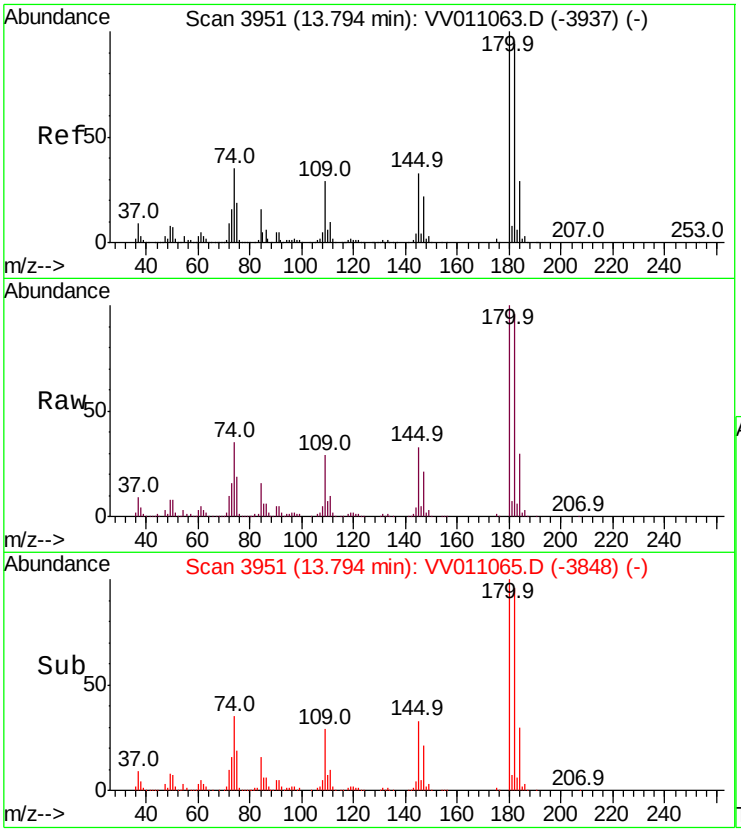


#68
1,2,4-trichlorobenzene
Concen: 19.166 ug/L
RT: 13.31 min Scan# 3800
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Tgt Ion:180 Resp: 156644

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.8	115.2
145	31.4	25.4	38.0





#70
1,2,3-Trichlorobenzene
Concen: 29.108 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. -0.00 min
Lab File: VV011065.D
Acq: 28 May 2019 15:16

Instrument :
MSVOA_V
ClientSampleId :
A51H1

Tgt Ion:180 Resp: 217699

Ion	Ratio	Lower	Upper
180	100		
182	96.3	75.7	113.5
145	34.6	27.0	40.6