

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072519\
 Data File : VW011467.D
 Acq On : 24 Jul 2019 11:48
 Operator : SY/VA
 Sample : K3934-02RE
 Misc : 4.40G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

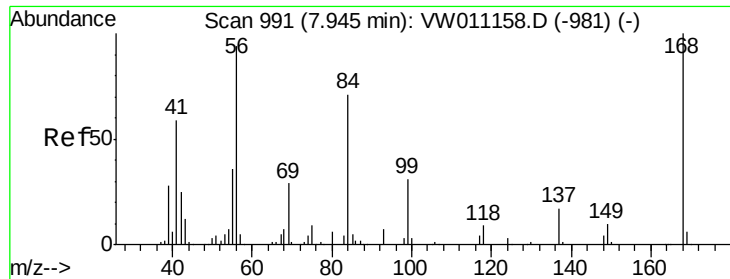
Quant Time: Jul 25 04:04:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 11 08:14:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	83214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	133095	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	114265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	45700	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	54435	52.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.12%	
35) Dibromofluoromethane	7.88	113	41571	52.40	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.80%	
50) Toluene-d8	10.32	98	164086	51.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.62	95	52361	44.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	14930	192.859	ug/l #	73
16) Acetone	4.12	43	19373	77.003	ug/l	93
17) Carbon Disulfide	4.37	76	3576	1.276	ug/l #	80
18) Methyl Acetate	4.67	43	8187	10.322	ug/l	99
20) Methylene Chloride	4.90	84	2706	2.726	ug/l #	84
25) 2-Butanone	7.18	43	9887	25.035	ug/l	96
26) 2,2-Dichloropropane	7.13	77	5437	5.494	ug/l #	53
29) Tetrahydrofuran	7.53	42	831	3.209	ug/l #	56
31) Cyclohexane	7.95	56	2173	1.073	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	7396	5.218	ug/l #	52
37) Ethyl Acetate	7.18	43	9887	11.610	ug/l #	72
38) Carbon Tetrachloride	7.95	117	8224	6.845	ug/l #	16
40) Benzene	8.32	78	21406	5.465	ug/l	93
49) 1,4-Dioxane	9.30	88	19	2.285	ug/l #	17
52) Toluene	10.39	92	3995	1.681	ug/l	93
67) Ethyl Benzene	11.73	91	5318	1.196	ug/l #	87
68) m/p-Xylenes	11.84	106	2094	1.301	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	27743	52.531	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	27743	118.816	ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011467.D

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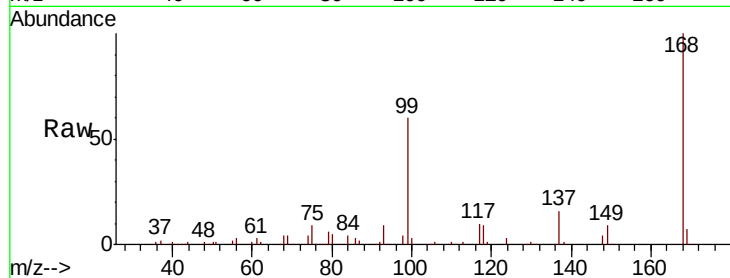
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 83214

Ion Ratio Lower Upper

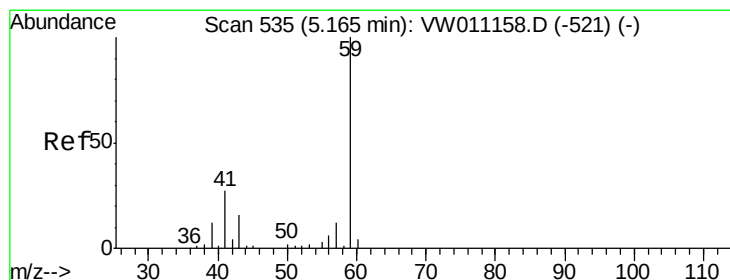
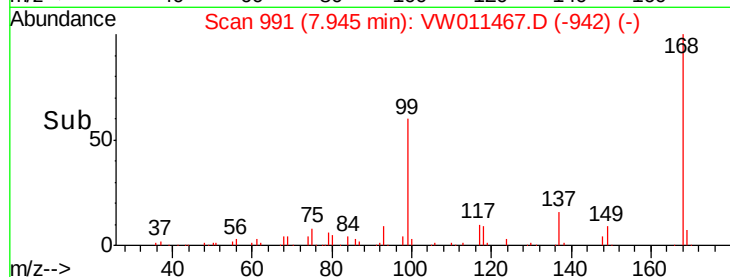
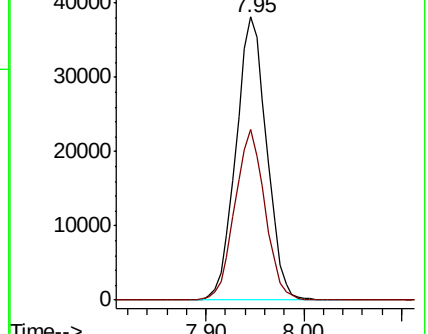
168 100

99 60.1 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 192.859 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.05 min

Lab File: VW011467.D

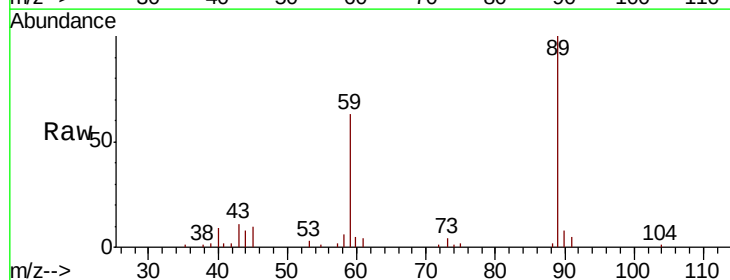
Acq: 24 Jul 2019 11:48

Tgt Ion: 59 Resp: 14930

Ion Ratio Lower Upper

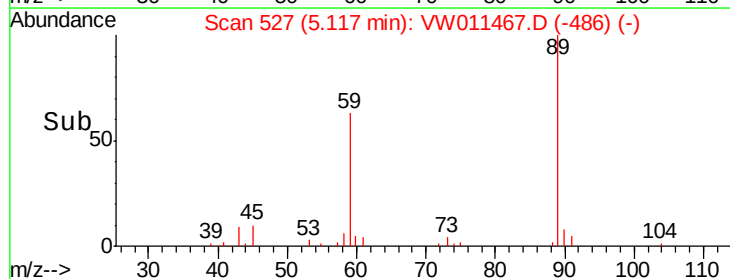
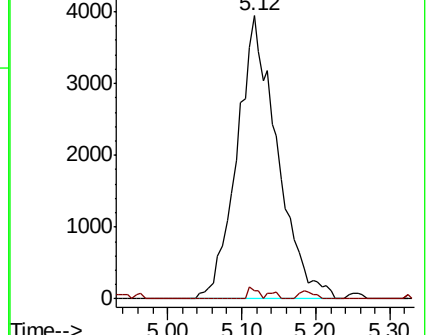
59 100

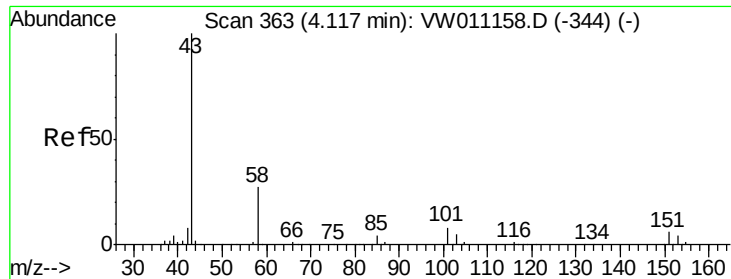
57 1.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

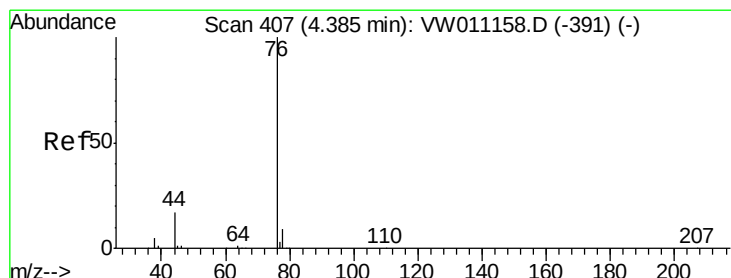
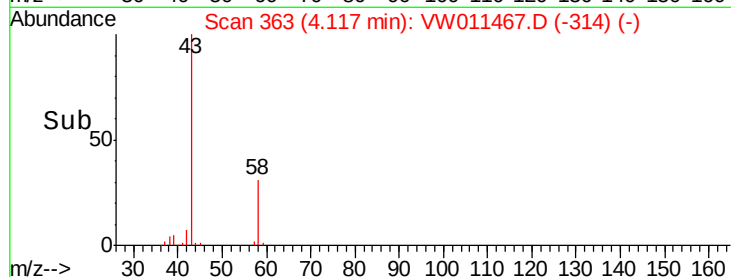
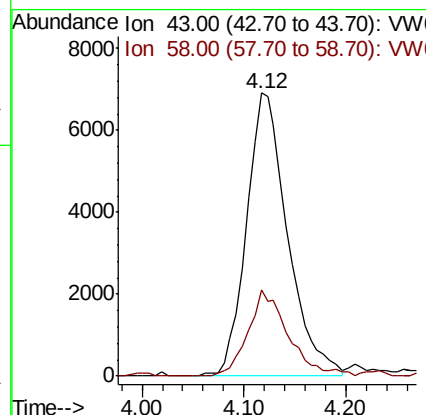
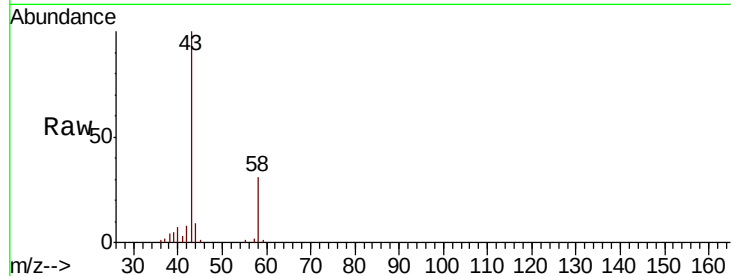




#16
Acetone
Concen: 77.003 ug/l
RT: 4.12 min Scan# 363
Delta R.T. 0.00 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

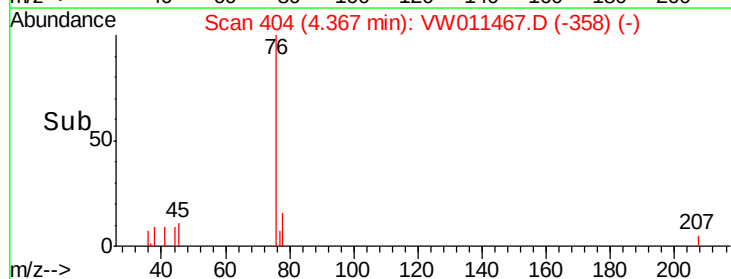
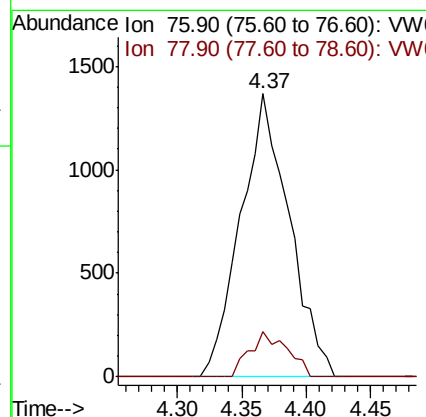
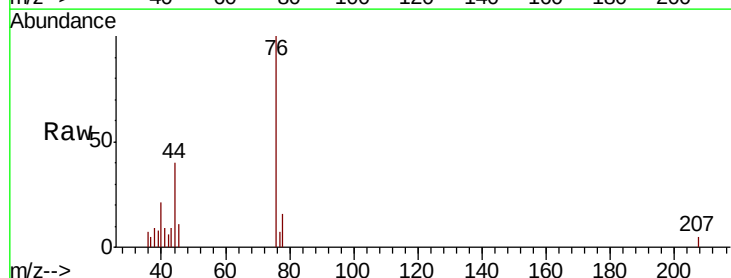
Instrument :
MSVOA_W
ClientSampleId :

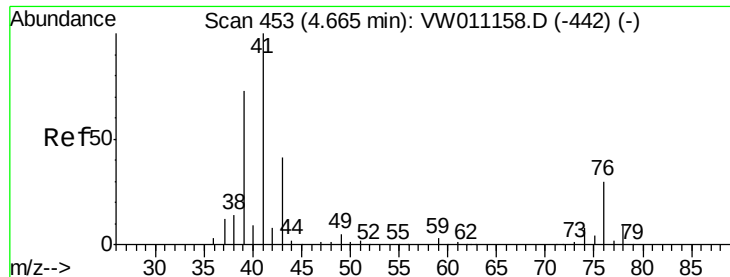
Tot Ion: 43 Resp: 19373
Ion Ratio Lower Upper
43 100
58 30.6 21.8 32.6



#17
Carbon Disulfide
Concen: 1.276 ug/l
RT: 4.37 min Scan# 404
Delta R.T. -0.02 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

Tgt Ion: 76 Resp: 3576
Ion Ratio Lower Upper
76 100
78 16.0 7.1 10.7#

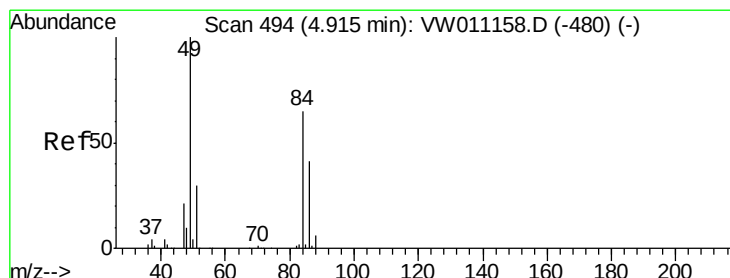
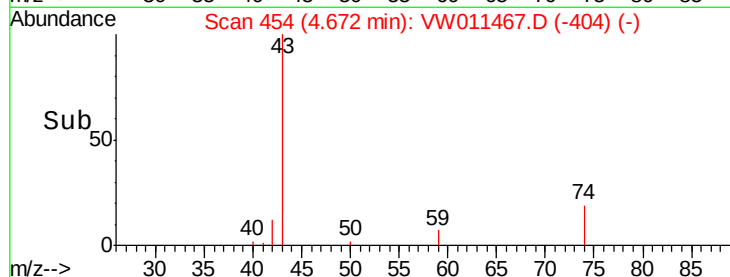
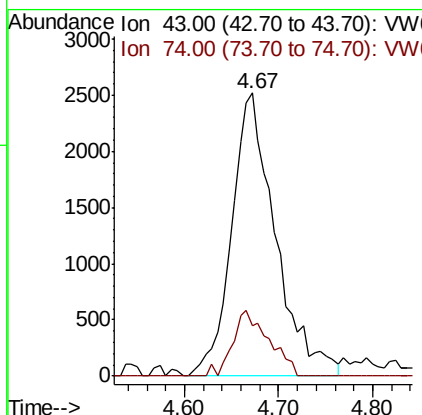
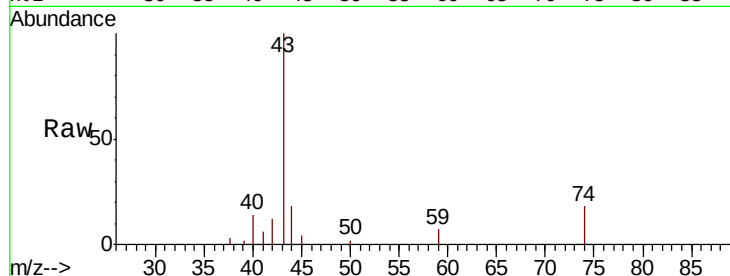




#18
Methyl Acetate
Concen: 10.322 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

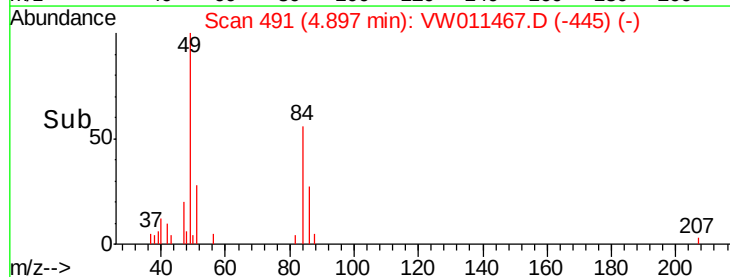
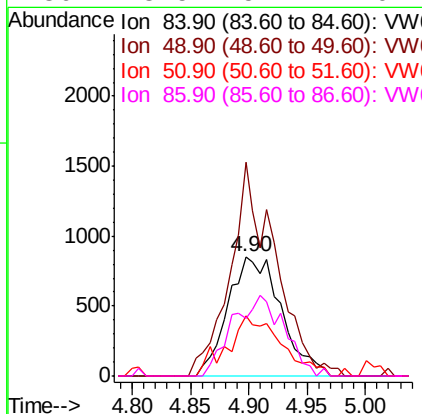
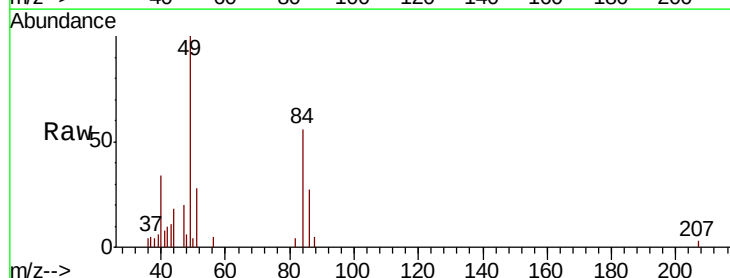
Instrument :
MSVOA_W
ClientSampleId :

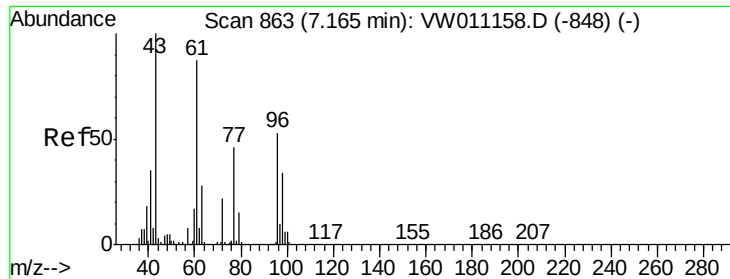
Tot Ion: 43 Resp: 8187
Ion Ratio Lower Upper
43 100
74 19.0 15.7 23.5



#20
Methylene Chloride
Concen: 2.726 ug/l
RT: 4.90 min Scan# 491
Delta R.T. -0.02 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

Tgt Ion: 84 Resp: 2706
Ion Ratio Lower Upper
84 100
49 178.8 123.8 185.6
51 49.9 37.4 56.2
86 48.5 51.1 76.7#





#25

2-Butanone

Concen: 25.035 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW011467.D

Acq: 24 Jul 2019 11:48

Instrument :

MSVOA_W

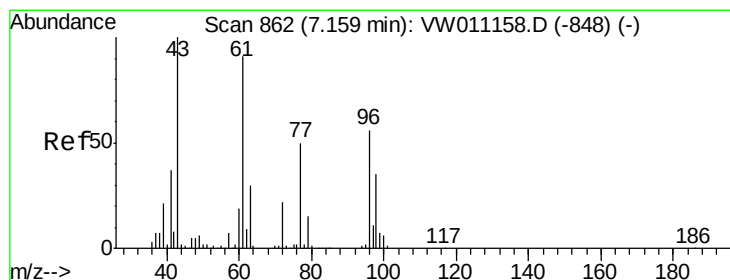
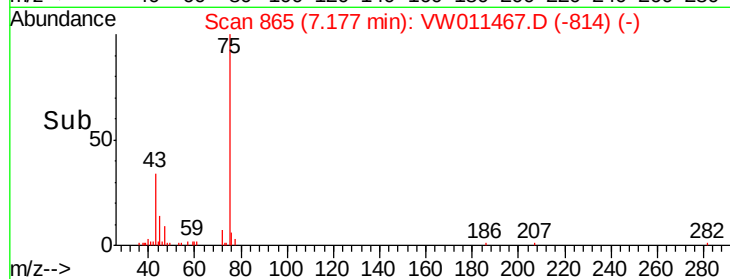
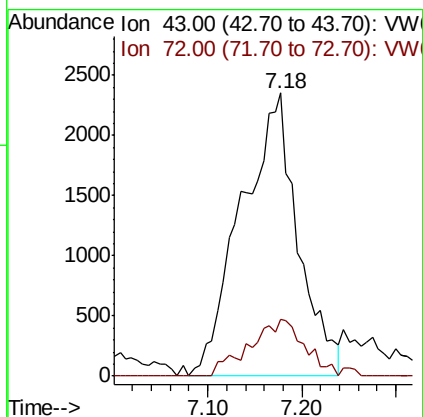
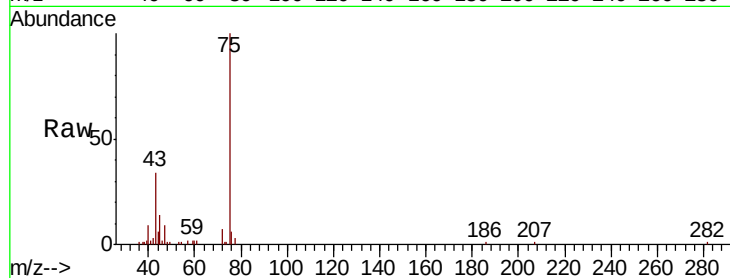
ClientSampleId :

Tot Ion: 43 Resp: 9887

Ion Ratio Lower Upper

43 100

72 20.0 17.6 26.4



#26

2,2-Dichloropropane

Concen: 5.494 ug/l

RT: 7.13 min Scan# 858

Delta R.T. -0.02 min

Lab File: VW011467.D

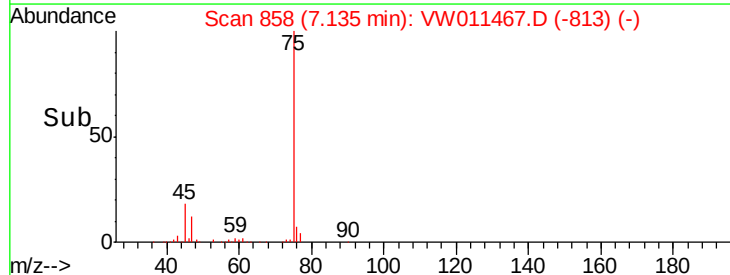
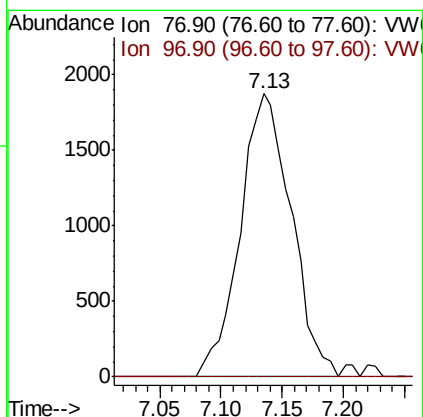
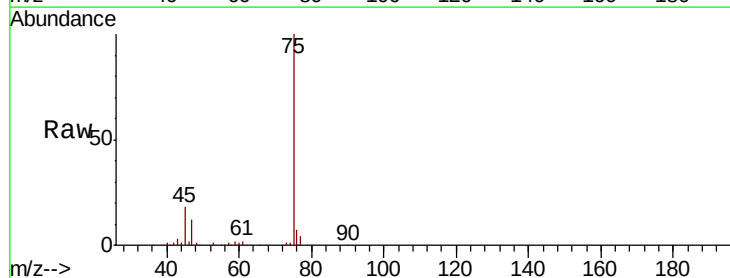
Acq: 24 Jul 2019 11:48

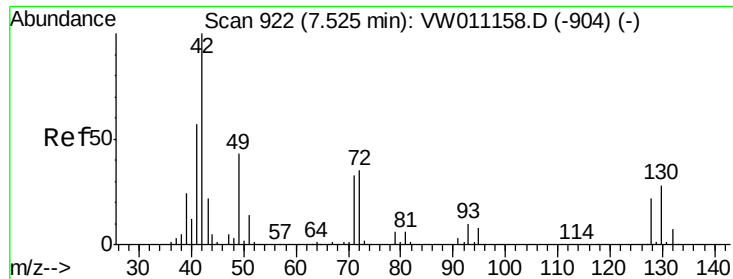
Tgt Ion: 77 Resp: 5437

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.5#

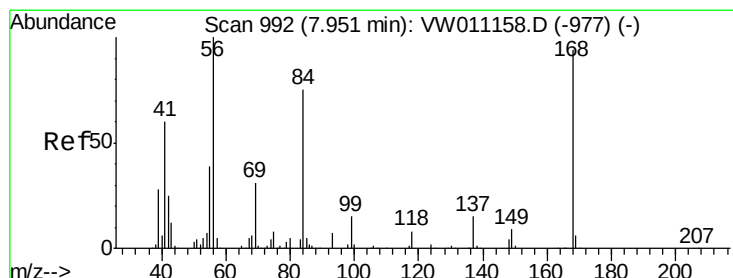
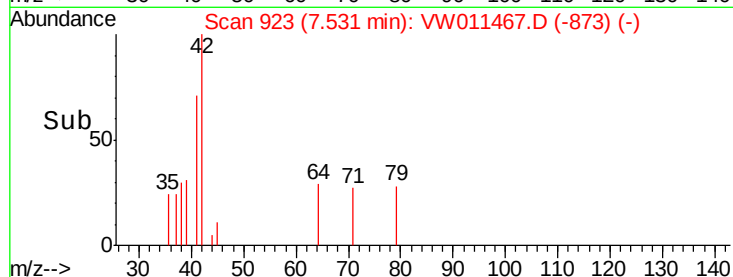
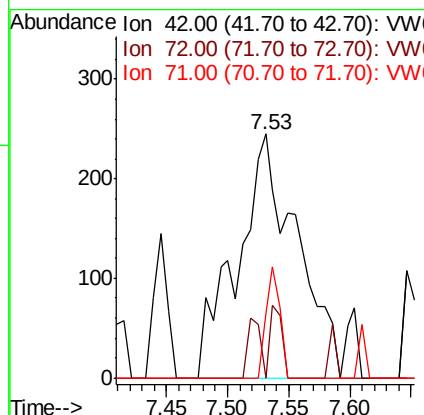
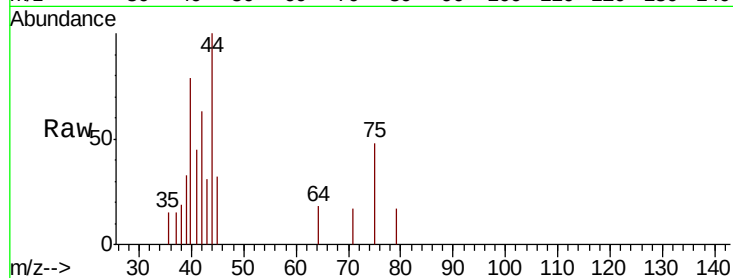




#29
Tetrahydrofuran
Concen: 3.209 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

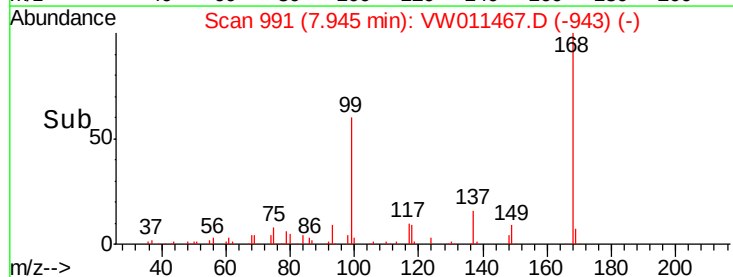
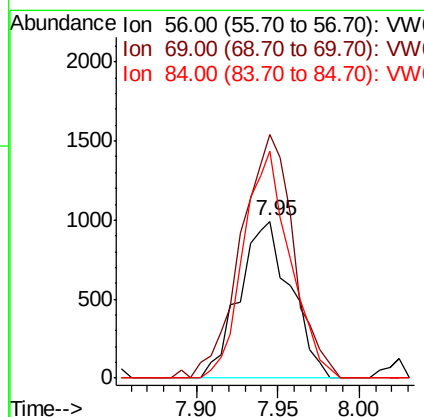
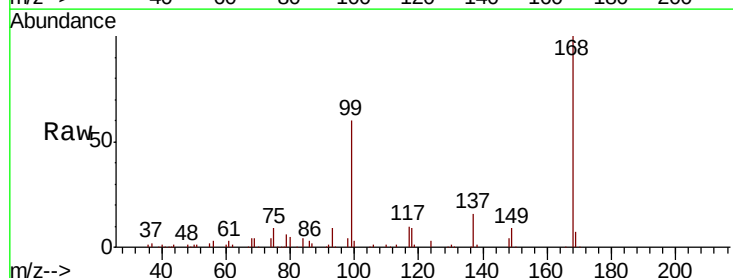
Instrument :
MSVOA_W
ClientSampled :

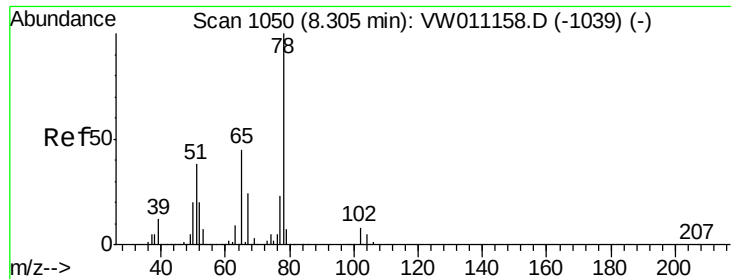
Tot Ion: 42 Resp: 831
Ion Ratio Lower Upper
42 100
72 5.9 27.4 41.2#
71 10.8 25.9 38.9#



#31
Cyclohexane
Concen: 1.073 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

Tgt Ion: 56 Resp: 2173
Ion Ratio Lower Upper
56 100
69 155.0 24.6 36.8#
84 144.9 60.1 90.1#

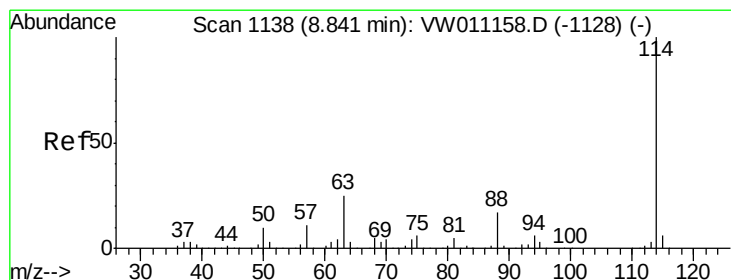
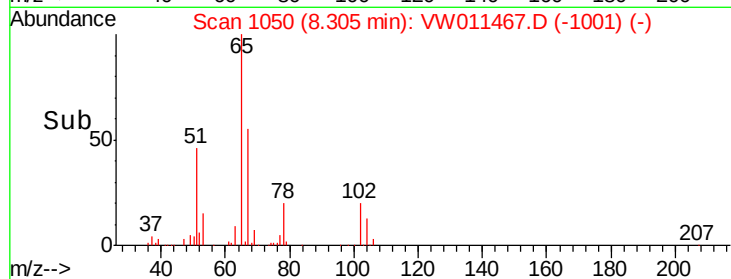
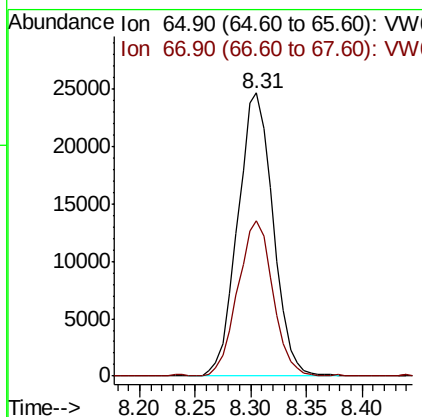
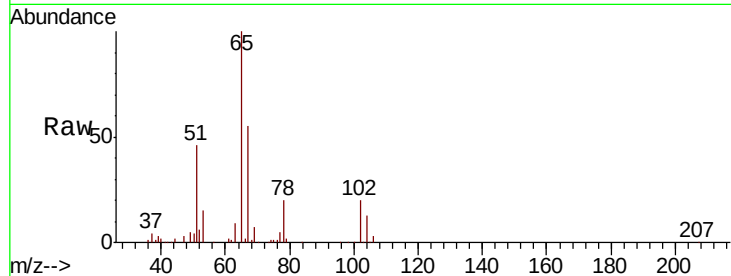




#33
 1,2-Dichloroethane-d4
 Concen: 52.060 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW011467.D
 Acq: 24 Jul 2019 11:48

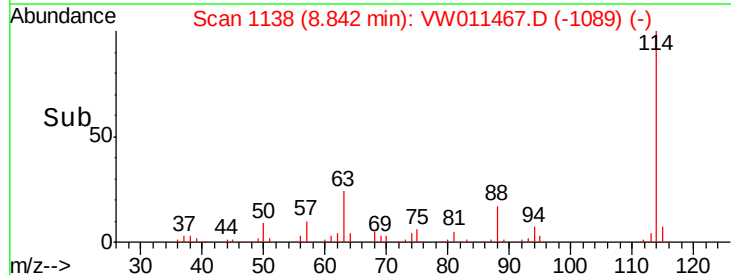
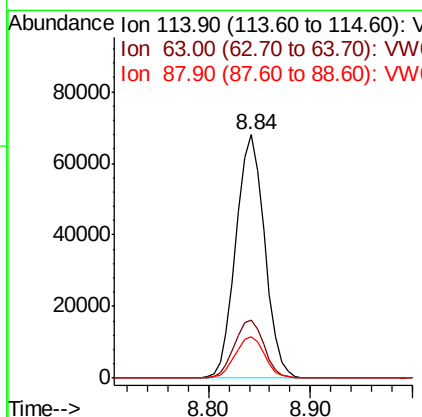
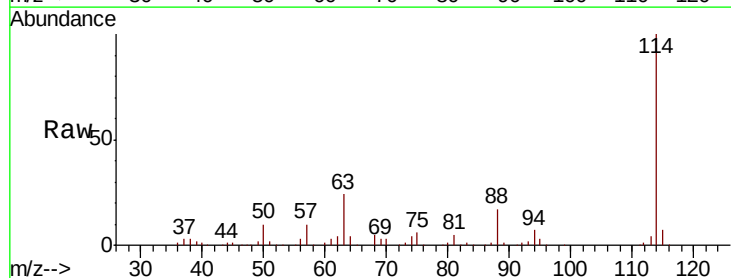
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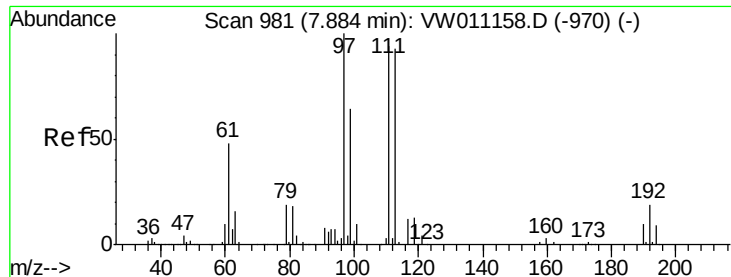
Tot Ion: 65 Resp: 54435
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011467.D
 Acq: 24 Jul 2019 11:48

Tgt Ion: 114 Resp: 133095
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 50.8
 88 17.2 0.0 34.2

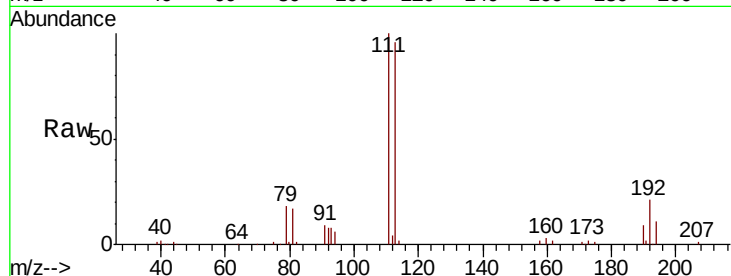




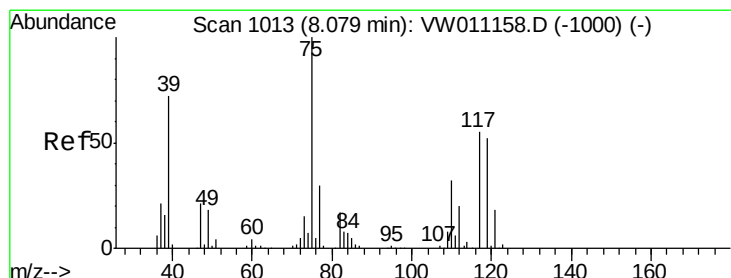
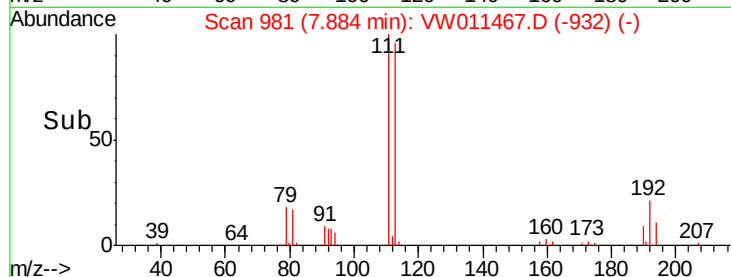
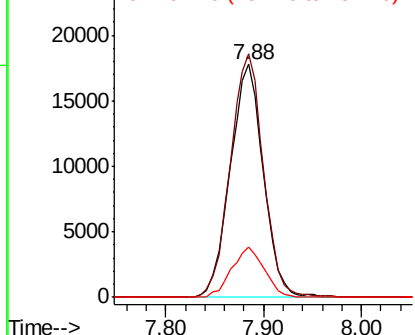
#35
 Dibromofluoromethane
 Concen: 52.402 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW011467.D
 Acq: 24 Jul 2019 11:48

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 41571
 Ion Ratio Lower Upper
 113 100
 111 104.7 82.4 123.6
 192 21.2 15.8 23.8

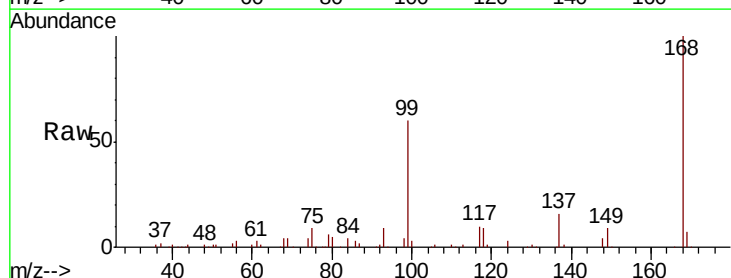


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

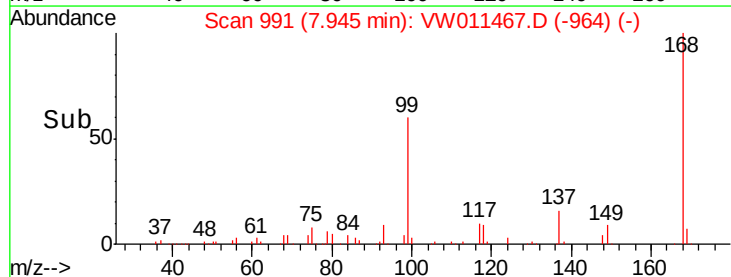
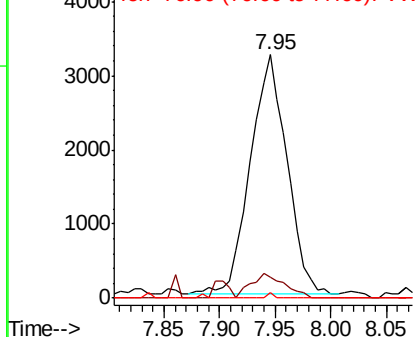


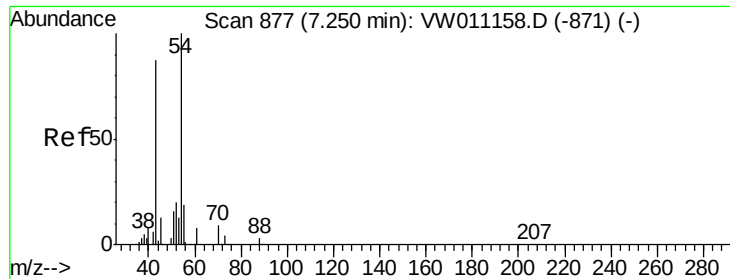
#36
 1,1-Dichloropropene
 Concen: 5.218 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011467.D
 Acq: 24 Jul 2019 11:48

Tgt Ion: 75 Resp: 7396
 Ion Ratio Lower Upper
 75 100
 110 9.3 15.9 47.6#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

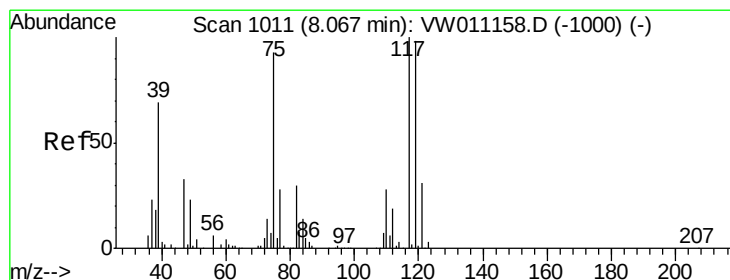
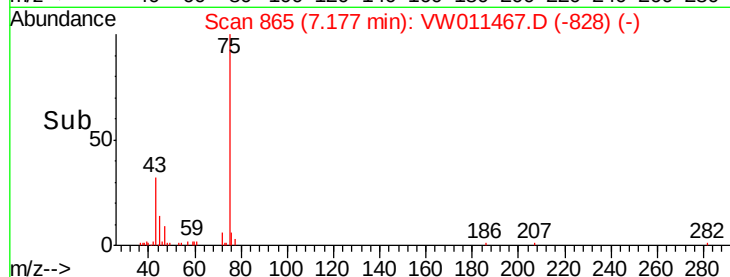
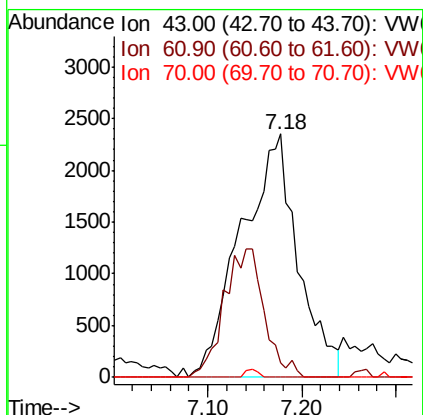
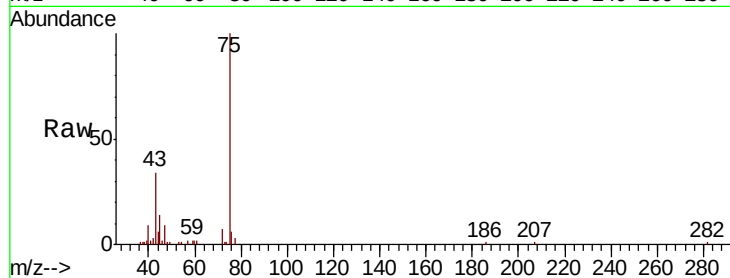




#37
Ethyl Acetate
Concen: 11.610 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.07 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

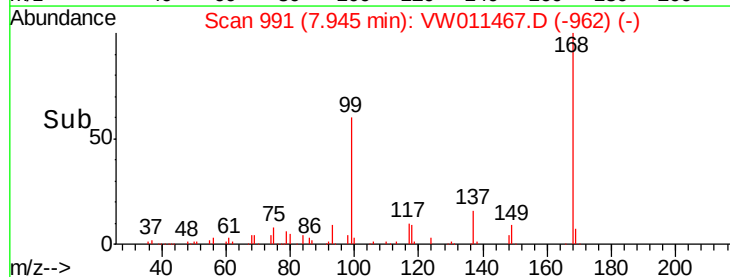
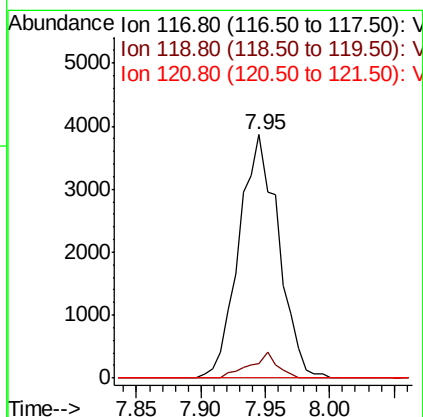
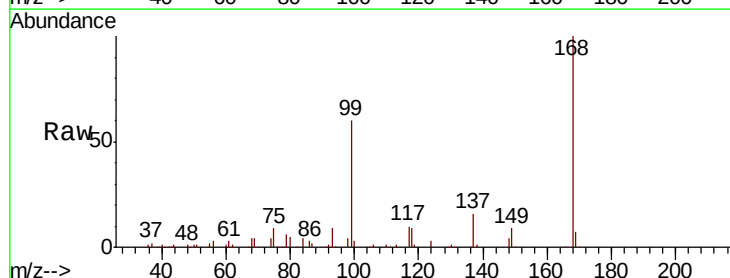
Instrument :
MSVOA_W
ClientSampleId :

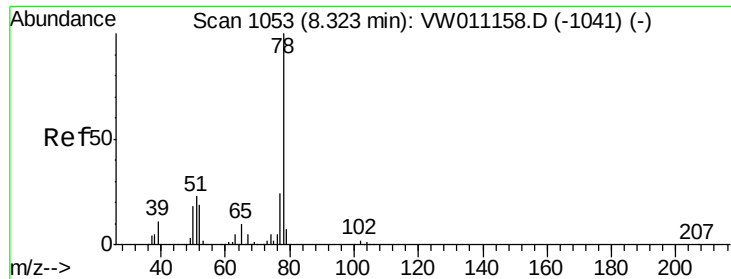
Tot Ion: 43 Resp: 9887
Ion Ratio Lower Upper
43 100
61 0.0 9.5 14.3#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 6.845 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

Tgt Ion: 117 Resp: 8224
Ion Ratio Lower Upper
117 100
119 5.7 78.1 117.1#
121 0.0 25.1 37.7#





#40

Benzene

Concen: 5.465 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW011467.D

Acq: 24 Jul 2019 11:48

Instrument :

MSVOA_W

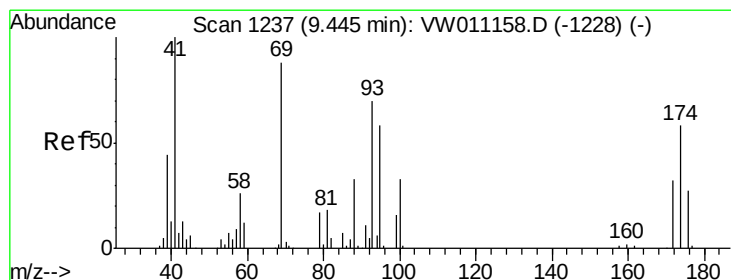
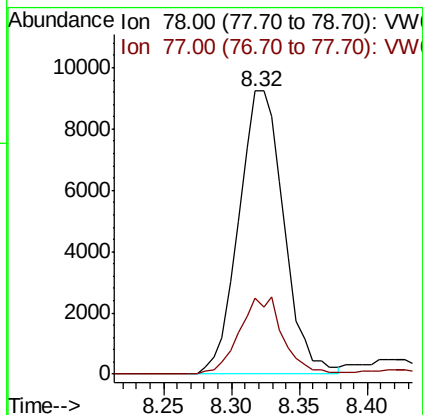
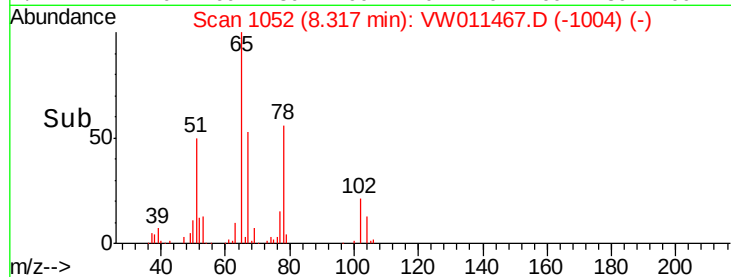
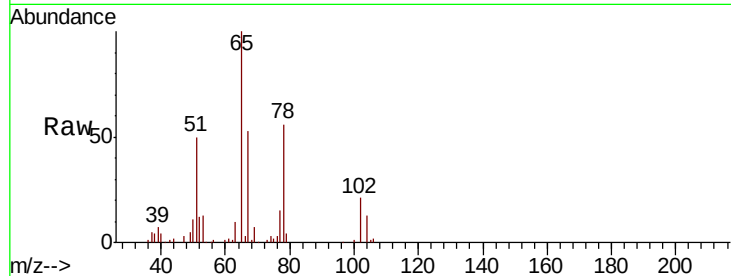
ClientSampled :

Tot Ion: 78 Resp: 21406

Ion Ratio Lower Upper

78 100

77 27.0 19.0 28.6



#49

1,4-Dioxane

Concen: 2.285 ug/l

RT: 9.30 min Scan# 1214

Delta R.T. -0.14 min

Lab File: VW011467.D

Acq: 24 Jul 2019 11:48

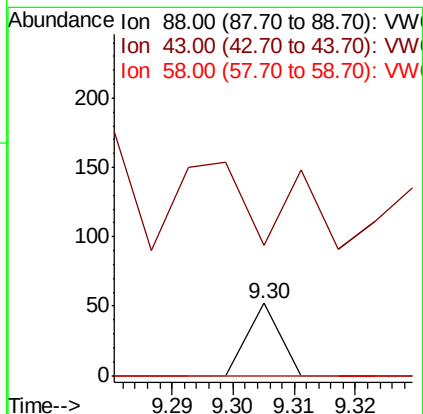
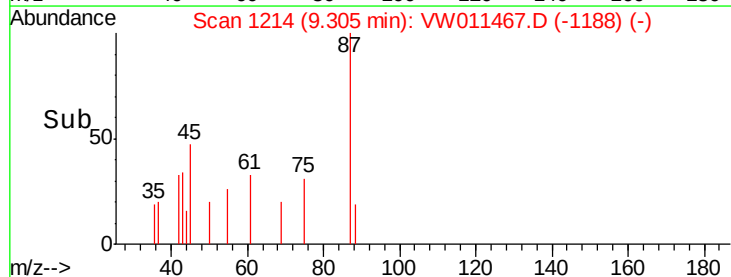
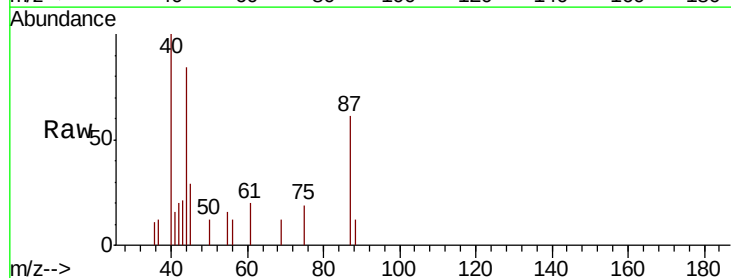
Tgt Ion: 88 Resp: 19

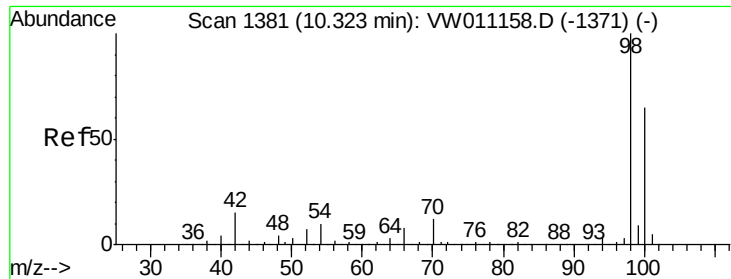
Ion Ratio Lower Upper

88 100

43 0.0 33.4 50.0#

58 0.0 64.5 96.7#

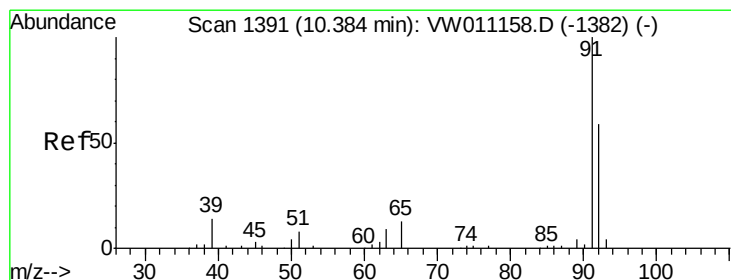
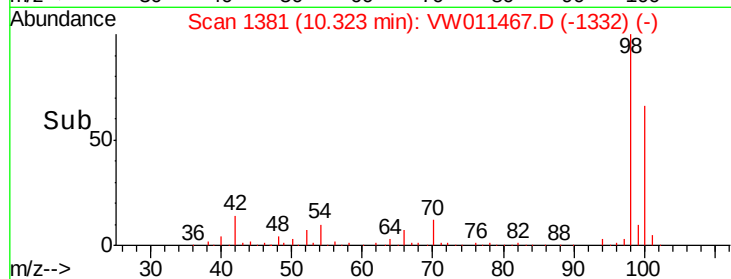
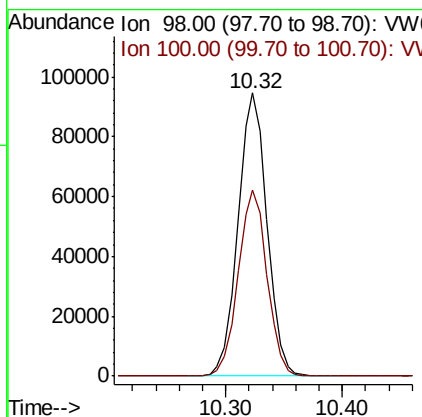
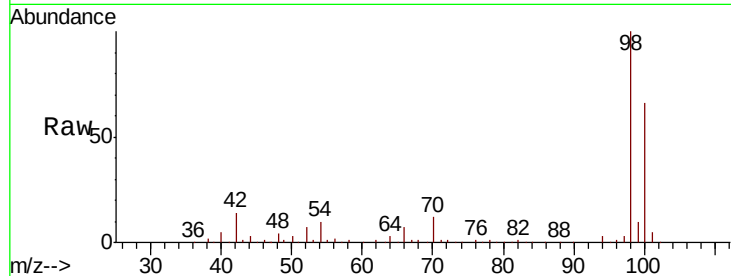




#50
Toluene-d8
Concen: 51.170 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

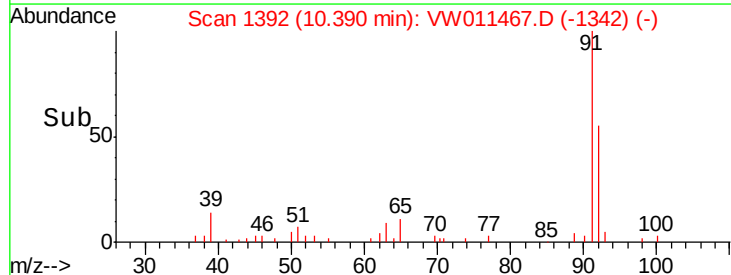
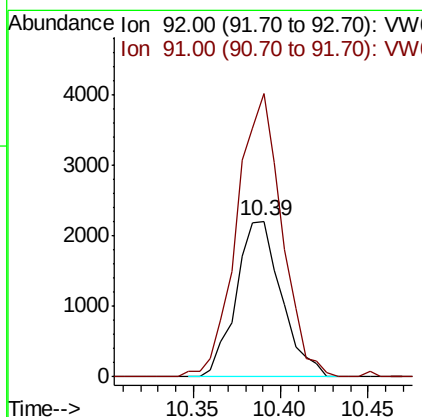
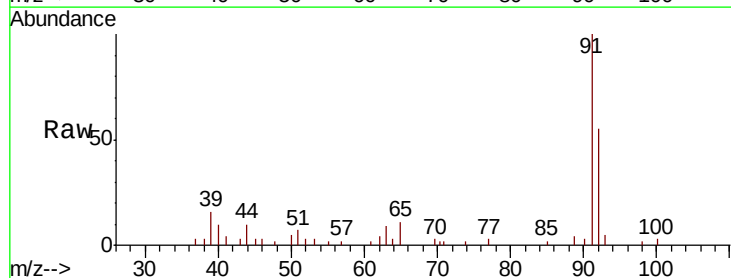
Instrument :
MSVOA_W
ClientSampleId :

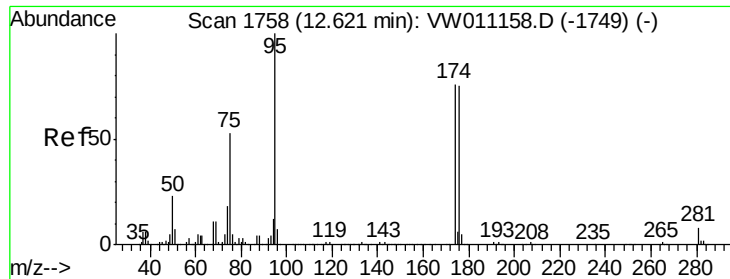
Tot Ion: 98 Resp: 164086
Ion Ratio Lower Upper
98 100
100 65.4 52.4 78.6



#52
Toluene
Concen: 1.681 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. 0.01 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

Tgt Ion: 92 Resp: 3995
Ion Ratio Lower Upper
92 100
91 180.6 136.6 205.0





#62

4-Bromofluorobenzene

Concen: 44.549 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011467.D

Acq: 24 Jul 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

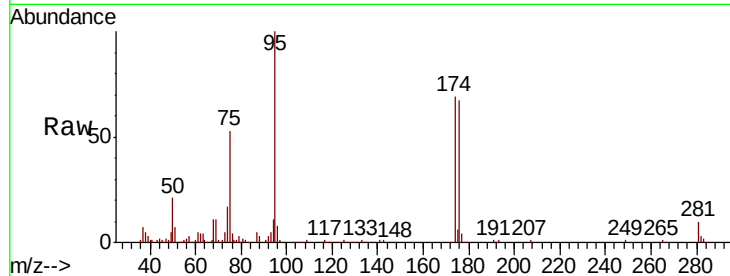
Tot Ion: 95 Resp: 52361

Ion Ratio Lower Upper

95 100

174 76.3 0.0 147.6

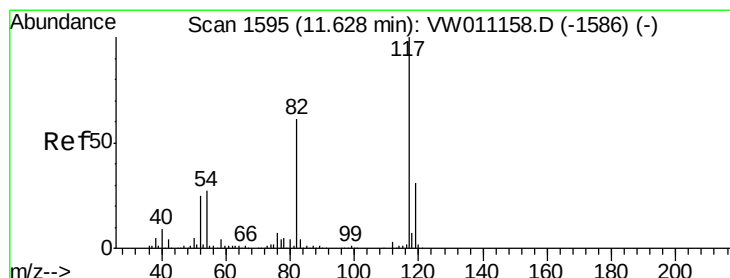
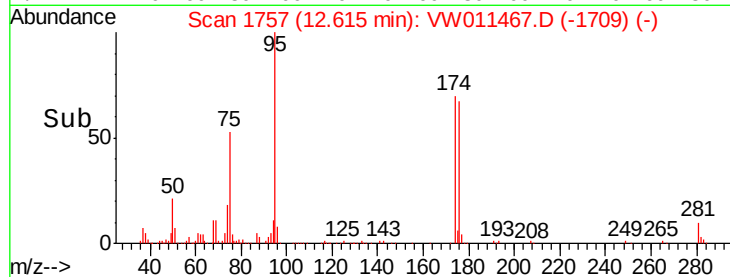
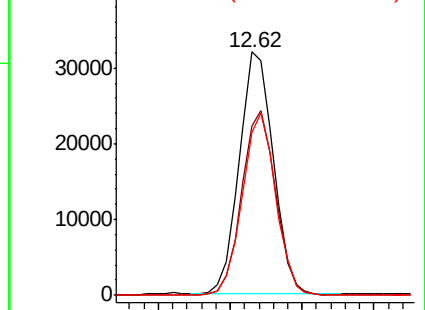
176 73.8 0.0 144.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW011467.D

Acq: 24 Jul 2019 11:48

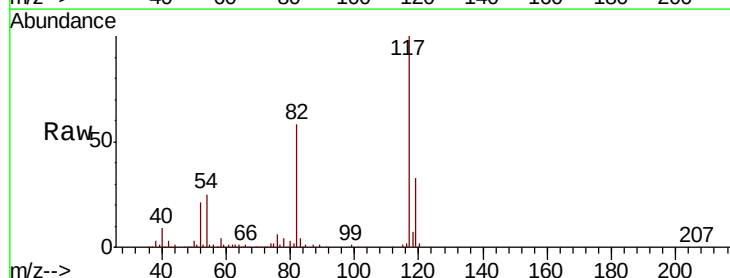
Tgt Ion: 117 Resp: 114265

Ion Ratio Lower Upper

117 100

82 57.6 48.9 73.3

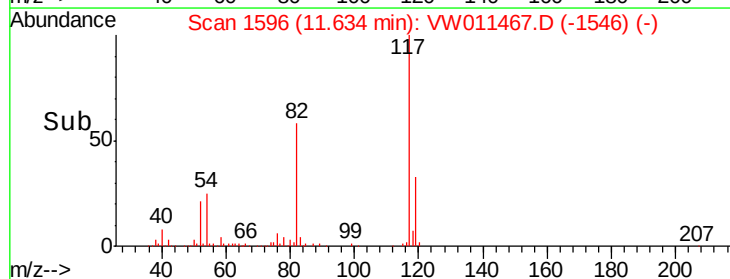
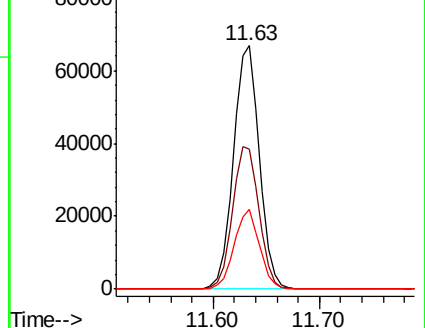
119 32.7 25.0 37.6

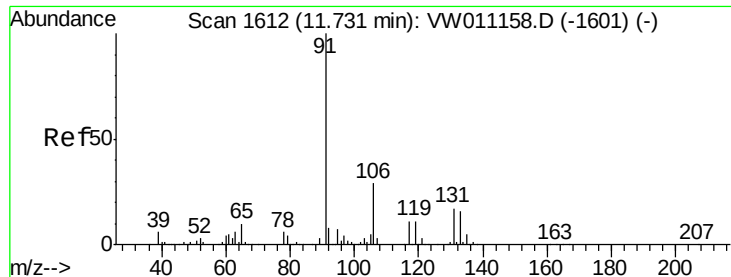


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

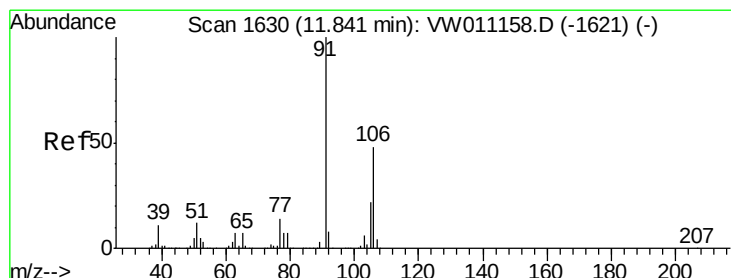
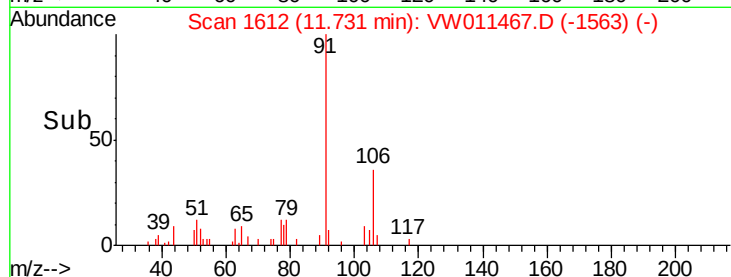
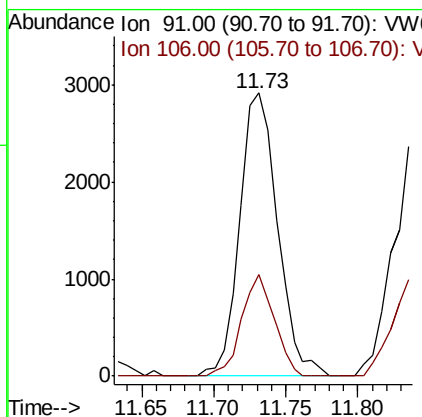
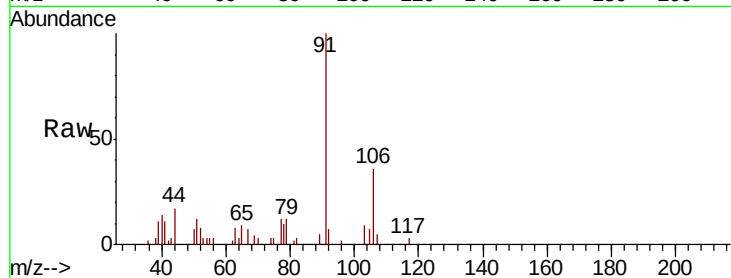




#67
Ethyl Benzene
Concen: 1.196 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

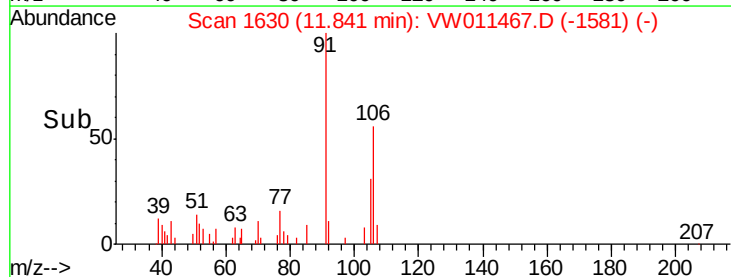
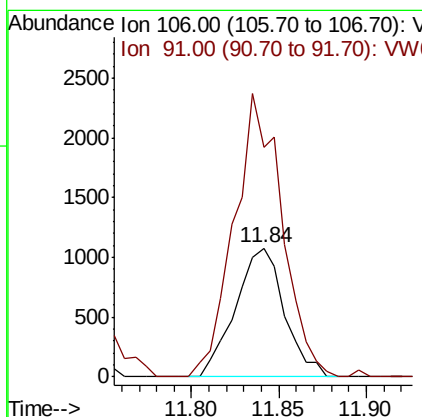
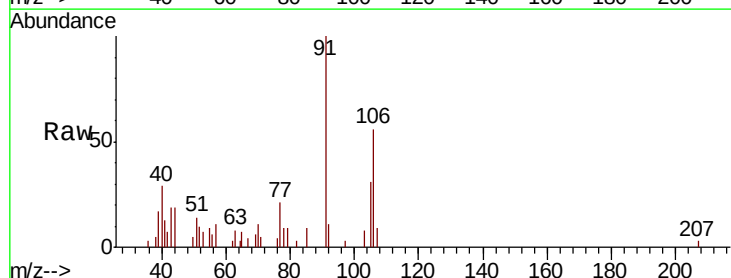
Instrument :
MSVOA_W
ClientSampled :

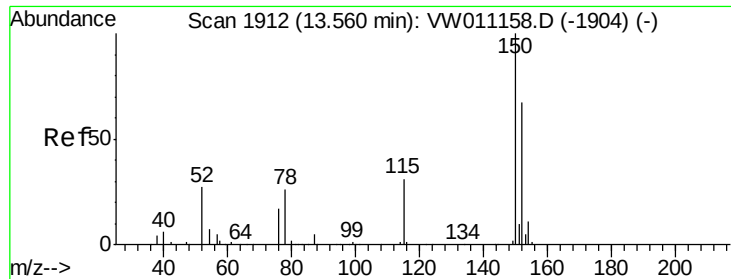
Tot Ion: 91 Resp: 5318
Ion Ratio Lower Upper
91 100
106 36.1 23.5 35.3#



#68
m/p-Xylenes
Concen: 1.301 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW011467.D
Acq: 24 Jul 2019 11:48

Tgt Ion: 106 Resp: 2094
Ion Ratio Lower Upper
106 100
91 215.0 167.7 251.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011467.D

Acq: 24 Jul 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

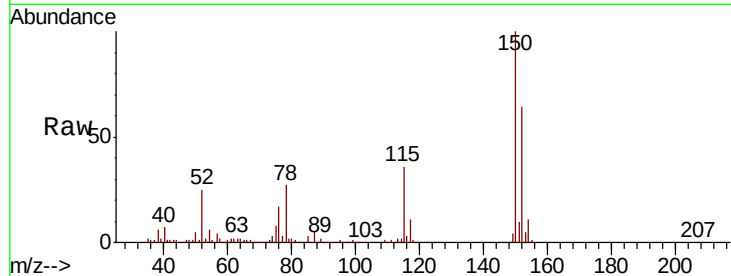
Tot Ion:152 Resp: 45700

Ion Ratio Lower Upper

152 100

115 59.9 30.1 90.3

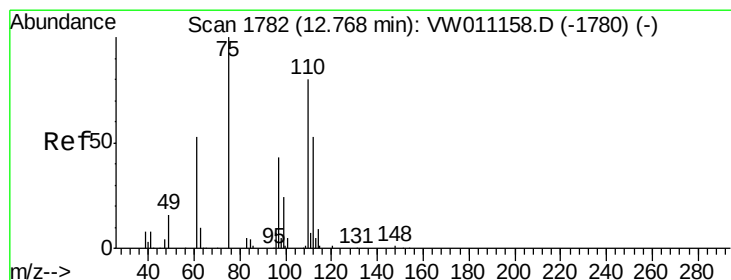
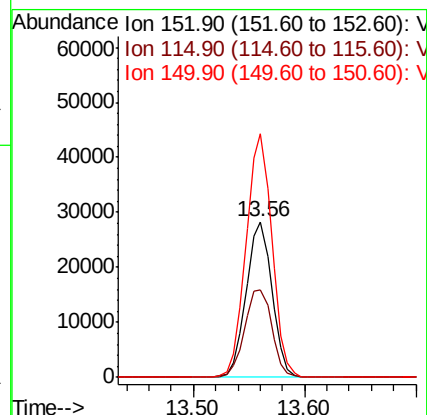
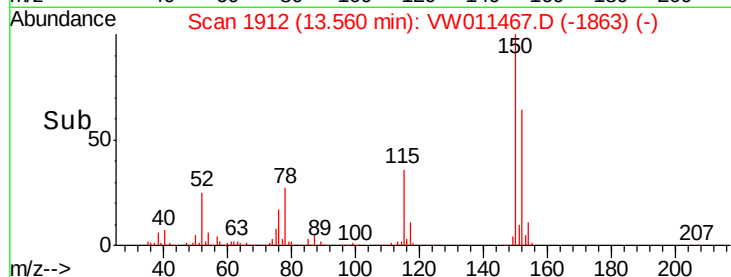
150 156.2 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 52.531 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011467.D

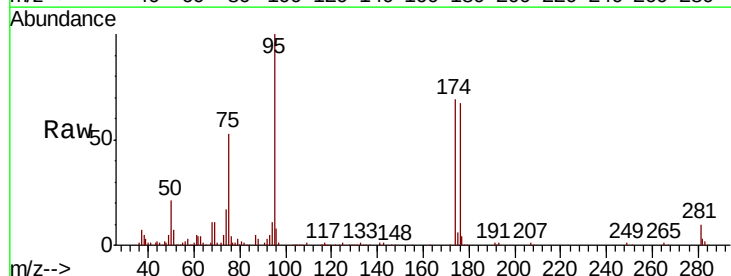
Acq: 24 Jul 2019 11:48

Tgt Ion: 75 Resp: 27743

Ion Ratio Lower Upper

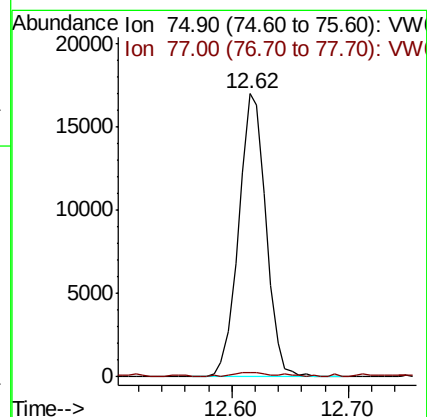
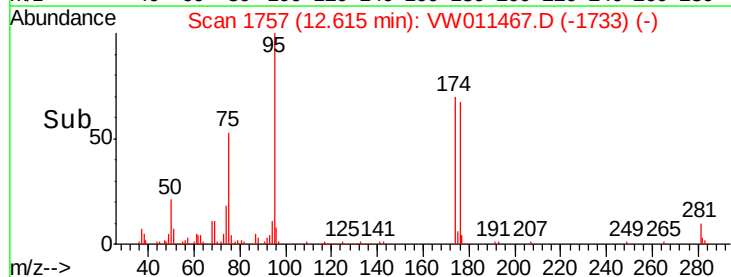
75 100

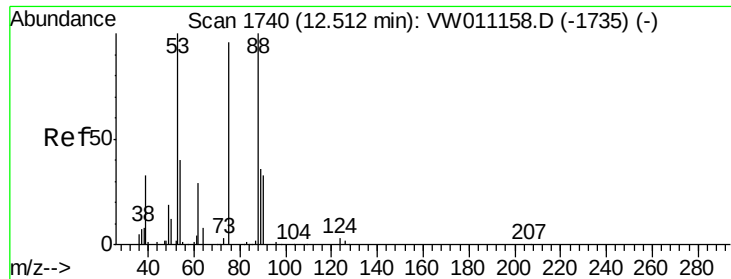
77 2.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 118.816 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011467.D

Acq: 24 Jul 2019 11:48

Instrument :

MSVOA_W

ClientSampleId :

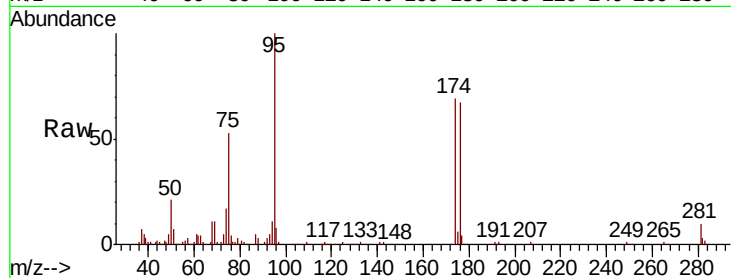
Tot Ion: 75 Resp: 27743

Ion Ratio Lower Upper

75 100

53 0.5 89.8 134.6#

89 0.0 34.3 51.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

