

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\
 Data File : VW012350.D
 Acq On : 30 Aug 2019 15:16
 Operator : SY/VA
 Sample : K4620-12
 Misc : 8.30G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Aug 30 15:52:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

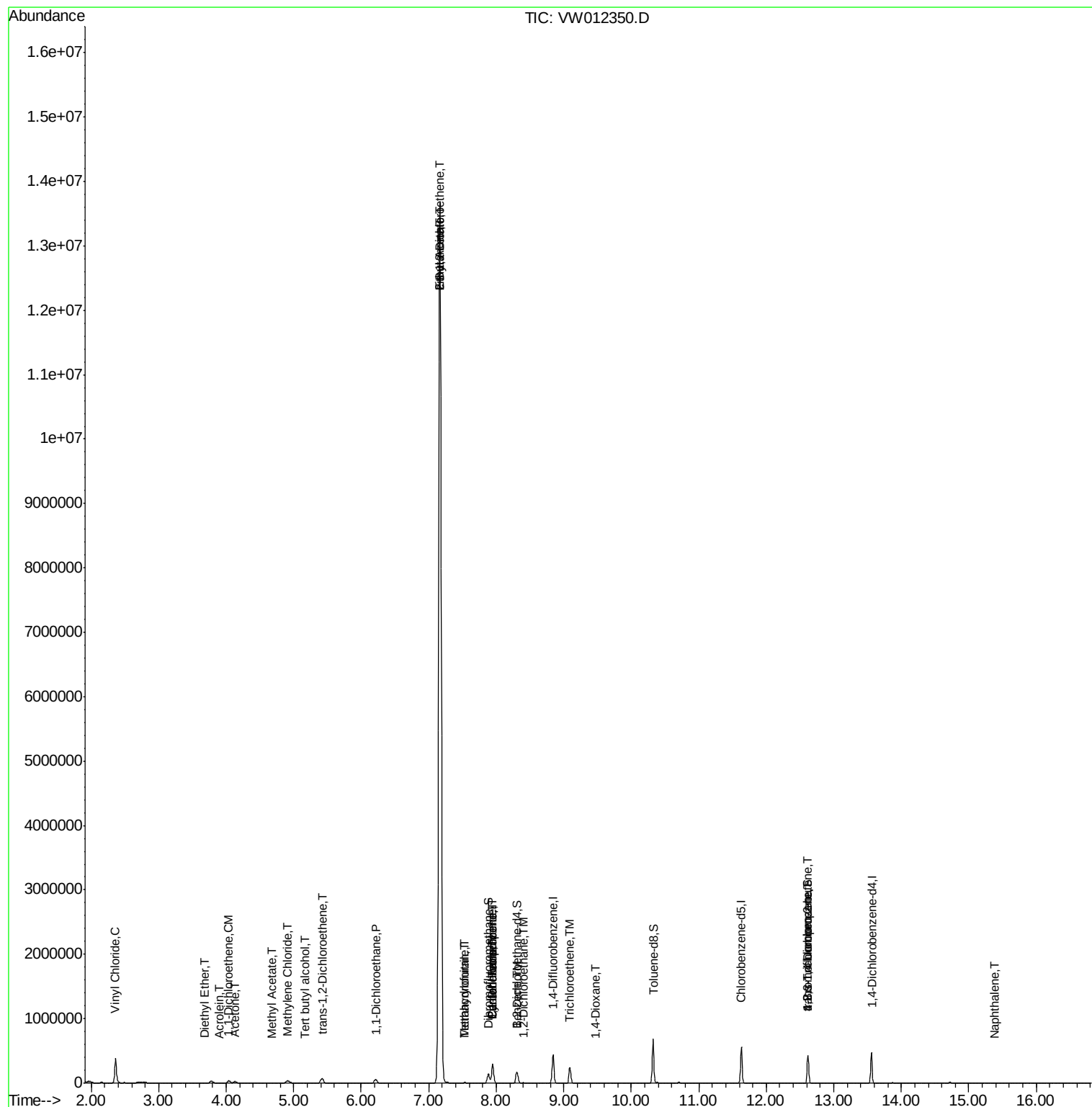
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	213382	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	348319	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	292602	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	119763	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	132690	52.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.62%	
35) Dibromofluoromethane	7.88	113	105971	50.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.94%	
50) Toluene-d8	10.32	98	427094	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
62) 4-Bromofluorobenzene	12.62	95	137693	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.36	62	435287	174.712	ug/l	98
8) Diethyl Ether	3.68	74	2098	1.767	ug/l	98
11) Tert butyl alcohol	5.18	59	941	6.164	ug/l #	77
12) 1,1-Dichloroethene	4.04	96	21390	9.994	ug/l	94
13) Acrolein	3.90	56	208	1.448	ug/l	97
16) Acetone	4.13	43	44879	69.214	ug/l	98
18) Methyl Acetate	4.67	43	1665	1.037	ug/l #	78
20) Methylene Chloride	4.92	84	27854	11.363	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	41601	18.125	ug/l	98
24) 1,1-Dichloroethane	6.21	63	77997	16.890	ug/l	98
25) 2-Butanone	7.17	43	6729	7.637	ug/l #	1
27) cis-1,2-Dichloroethene	7.17	96	7865464	3207.529	ug/l	92
29) Tetrahydrofuran	7.53	42	6733	12.737	ug/l	97
31) Cyclohexane	7.95	56	5355	1.172	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18608	5.170	ug/l #	51
37) Ethyl Acetate	7.17	43	6729	3.411	ug/l #	1
38) Carbon Tetrachloride	7.95	117	21863	7.018	ug/l #	16
40) Benzene	8.32	78	11507	1.171	ug/l	94
41) Methacrylonitrile	7.53	41	4036	3.481	ug/l #	55
42) 1,2-Dichloroethane	8.40	62	5130	1.665	ug/l	96
44) Trichloroethene	9.09	130	83957	35.139	ug/l	99
49) 1,4-Dioxane	9.48	88	115	6.383	ug/l #	14
76) 1,2,3-Trichloropropane	12.62	75	74086	63.516	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	74086	139.262	ug/l #	6
95) Naphthalene	15.38	128	153	4.352	ug/l #	86

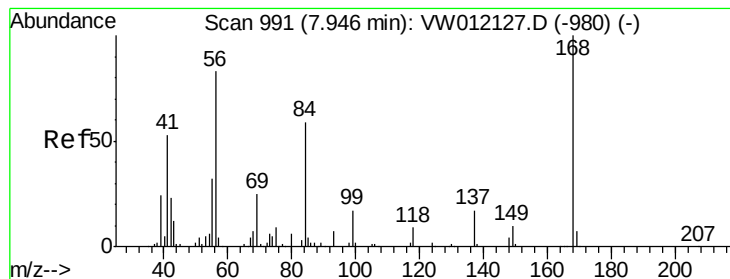
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

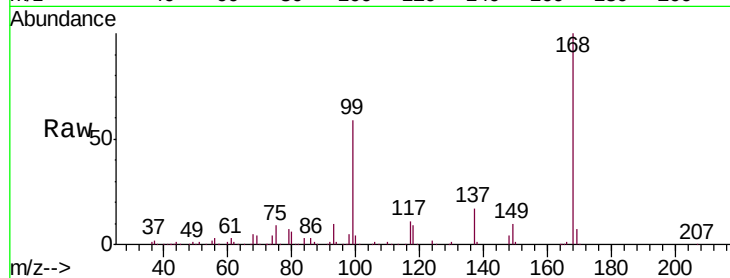
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 213382

Ion Ratio Lower Upper

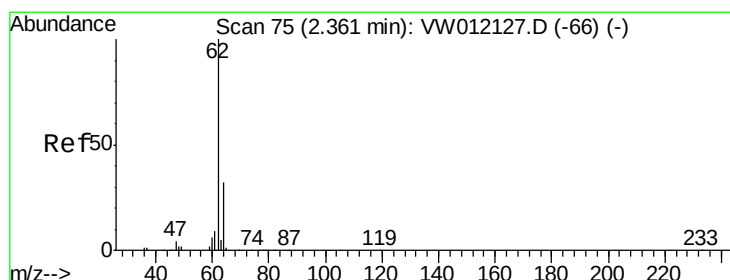
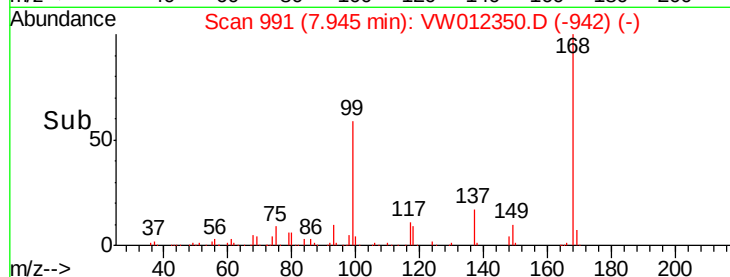
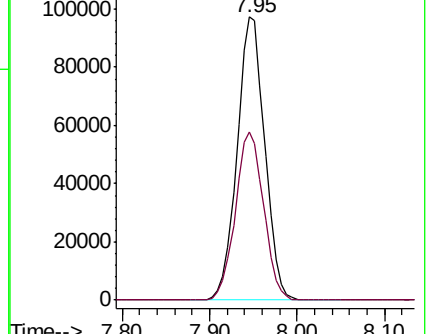
168 100

99 59.4 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#4

Vinyl Chloride

Concen: 174.712 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW012350.D

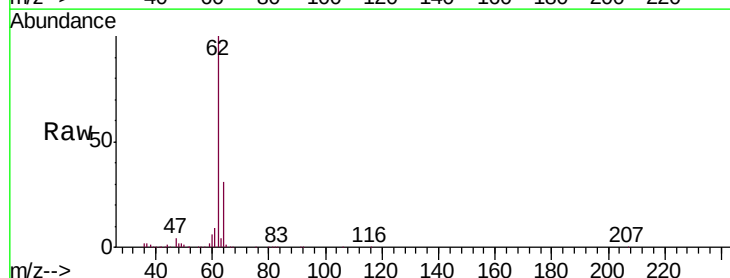
Acq: 30 Aug 2019 15:16

Tgt Ion: 62 Resp: 435287

Ion Ratio Lower Upper

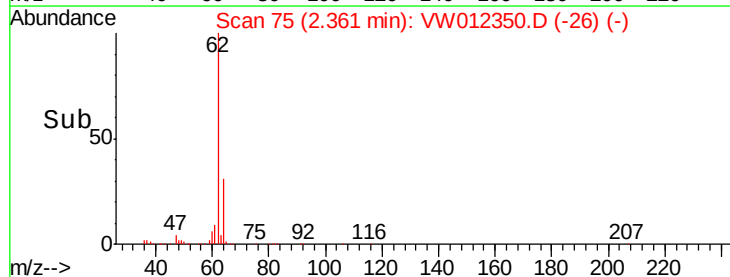
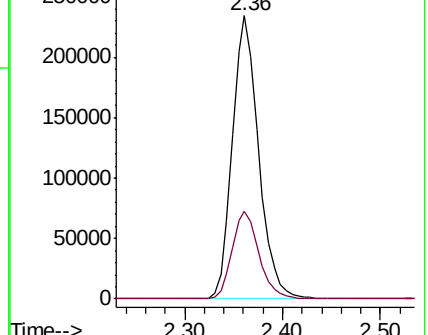
62 100

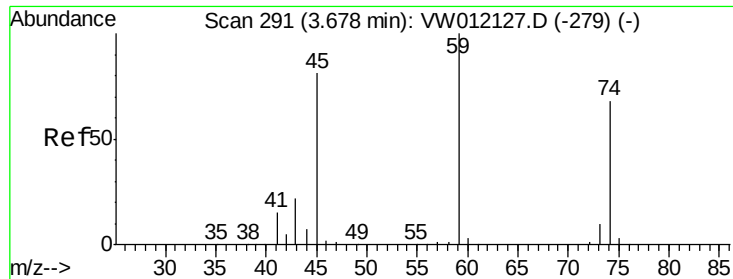
64 30.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#8

Diethyl Ether

Concen: 1.767 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :

MSVOA_W

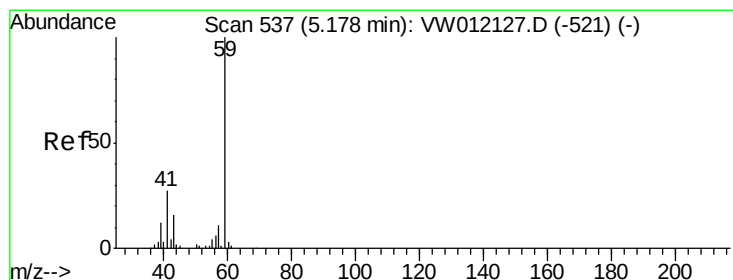
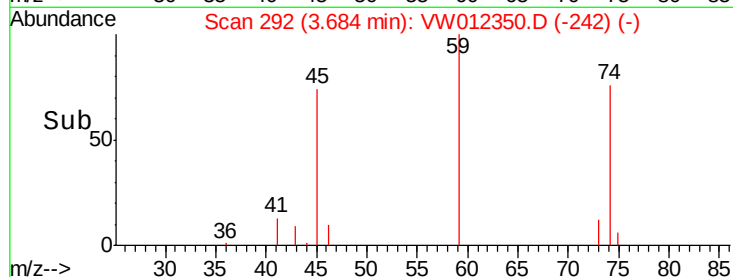
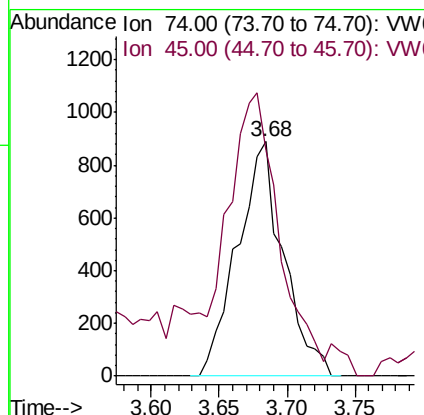
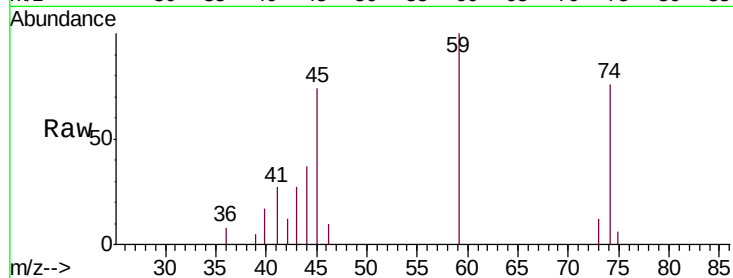
ClientSampled :

Tot Ion: 74 Resp: 2098

Ion Ratio Lower Upper

74 100

45 121.1 59.2 177.6



#11

Tert butyl alcohol

Concen: 6.164 ug/l

RT: 5.18 min Scan# 537

Delta R.T. -0.00 min

Lab File: VW012350.D

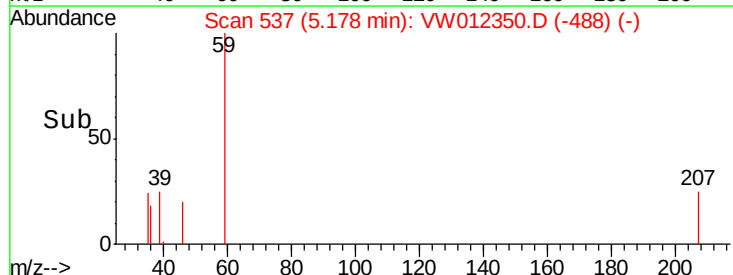
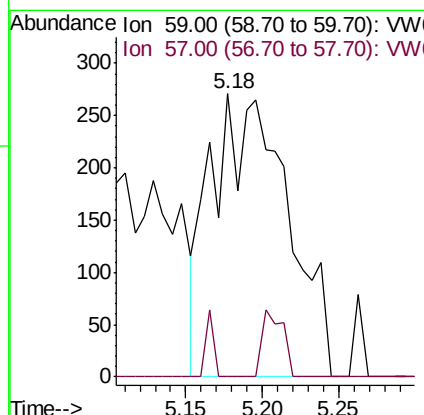
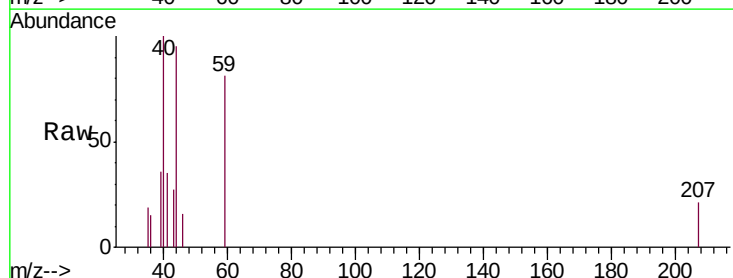
Acq: 30 Aug 2019 15:16

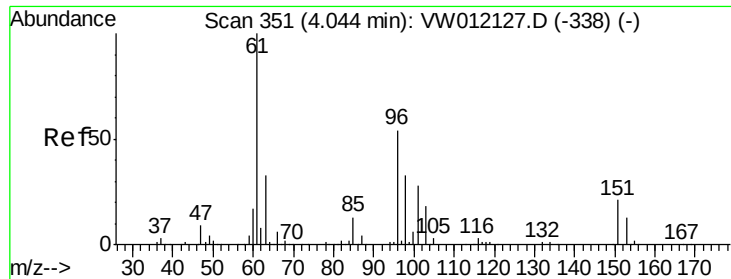
Tgt Ion: 59 Resp: 941

Ion Ratio Lower Upper

59 100

57 2.4 9.0 13.4#

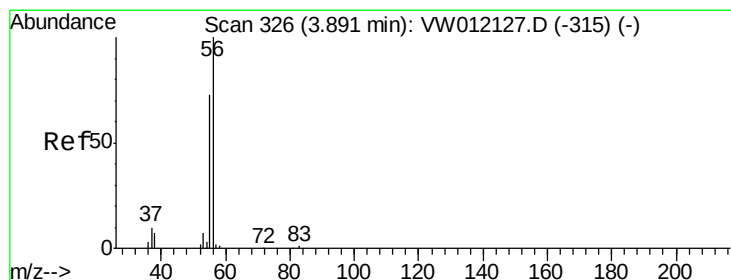
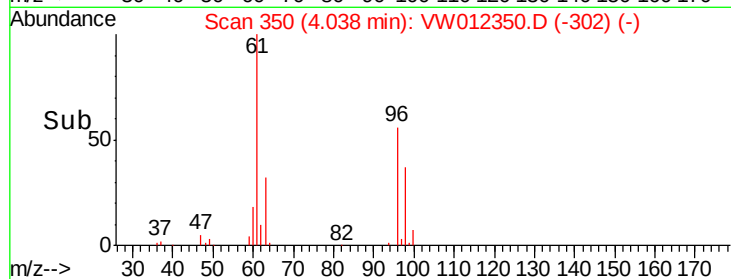
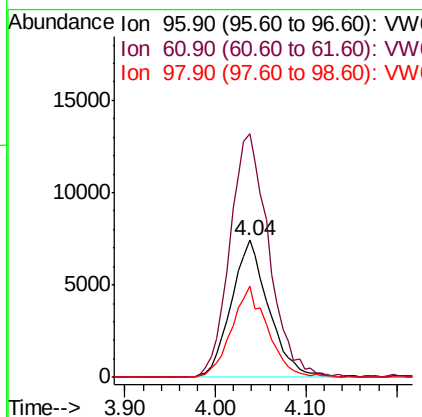
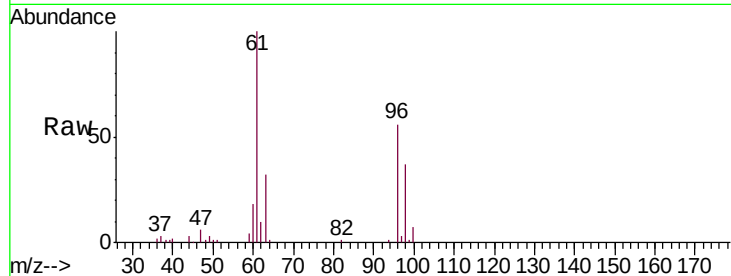




#12
 1,1-Dichloroethene
 Concen: 9.994 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VW012350.D
 Acq: 30 Aug 2019 15:16

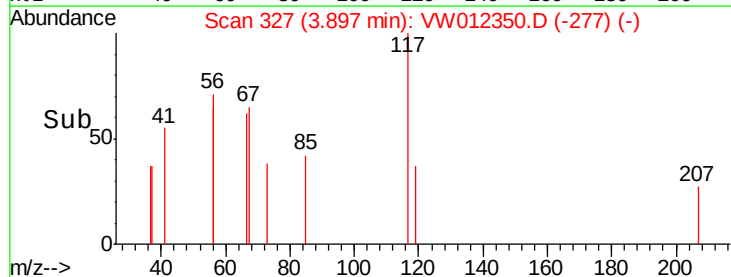
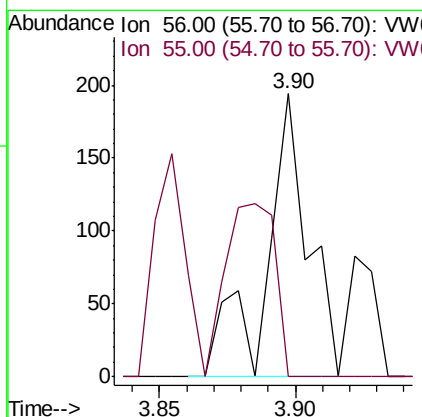
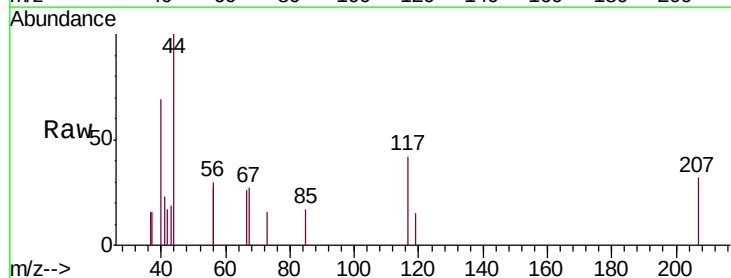
Instrument :
 MSVOA_W
 ClientSampled :

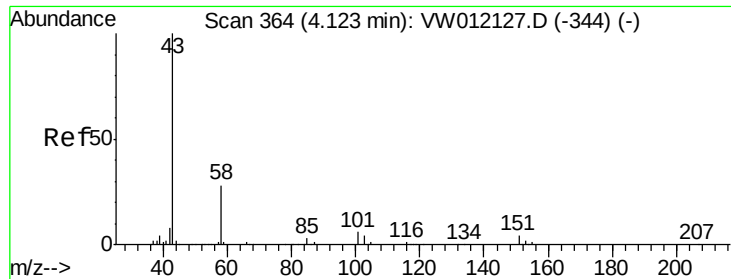
Tot Ion: 96 Resp: 21390
 Ion Ratio Lower Upper
 96 100
 61 178.0 149.1 223.7
 98 66.3 49.4 74.2



#13
 Acrolein
 Concen: 1.448 ug/l
 RT: 3.90 min Scan# 327
 Delta R.T. 0.01 min
 Lab File: VW012350.D
 Acq: 30 Aug 2019 15:16

Tgt Ion: 56 Resp: 208
 Ion Ratio Lower Upper
 56 100
 55 72.1 55.8 83.8

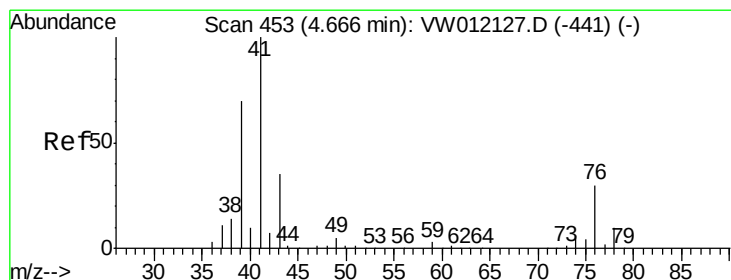
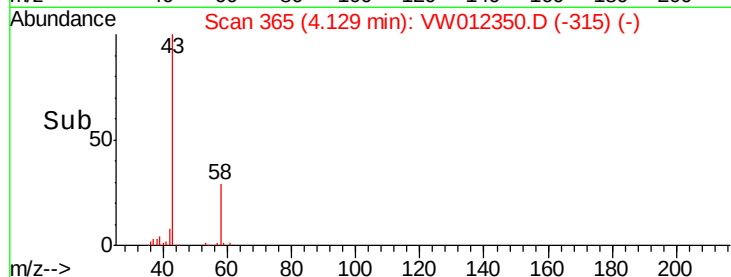
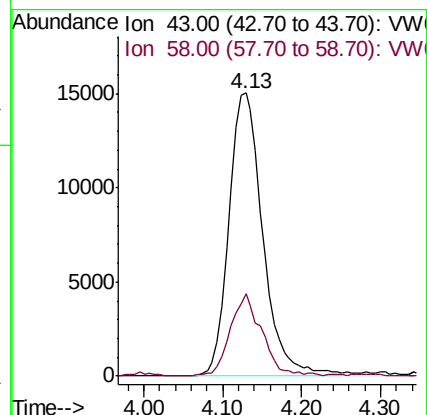
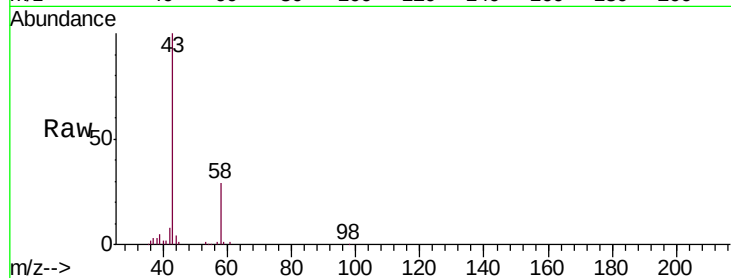




#16
Acetone
Concen: 69.214 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

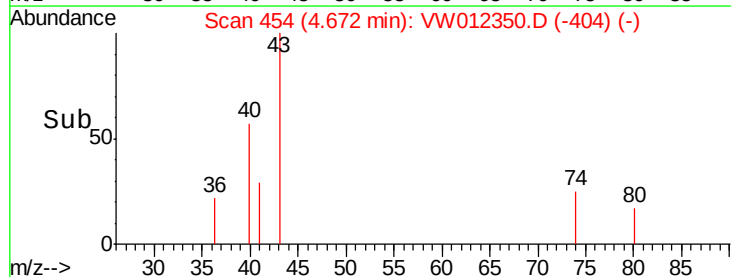
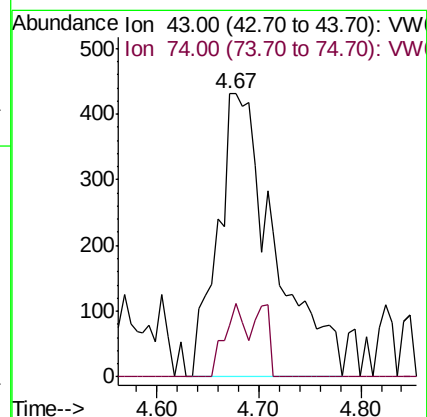
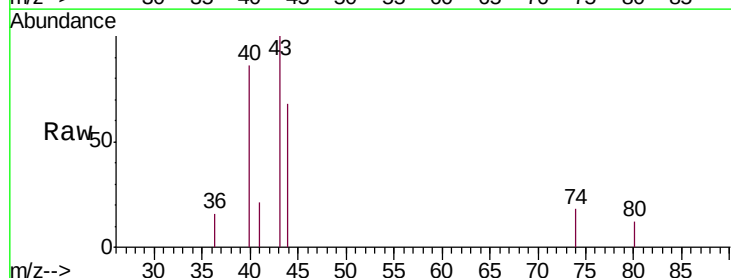
Instrument :
MSVOA_W
ClientSampled :

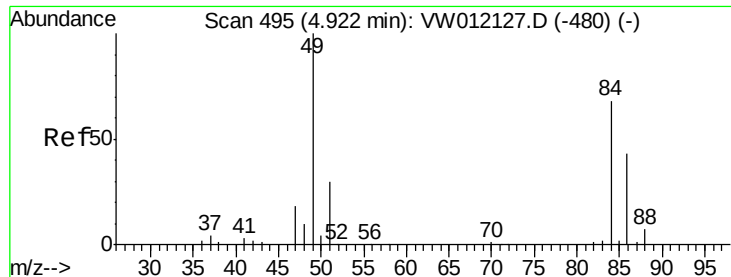
Tot Ion: 43 Resp: 44879
Ion Ratio Lower Upper
43 100
58 29.2 22.4 33.6



#18
Methyl Acetate
Concen: 1.037 ug/l
RT: 4.67 min Scan# 454
Delta R.T. 0.01 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Tgt Ion: 43 Resp: 1665
Ion Ratio Lower Upper
43 100
74 9.7 15.7 23.5#

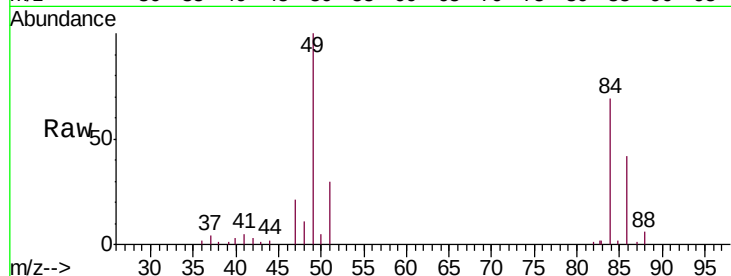




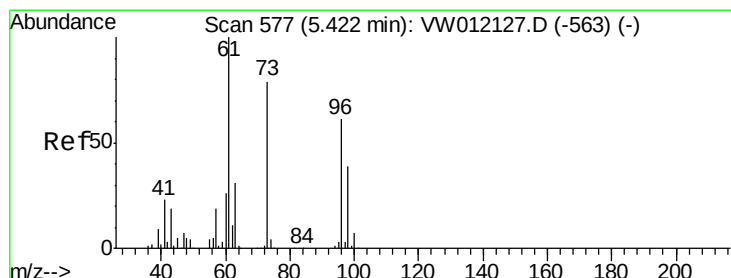
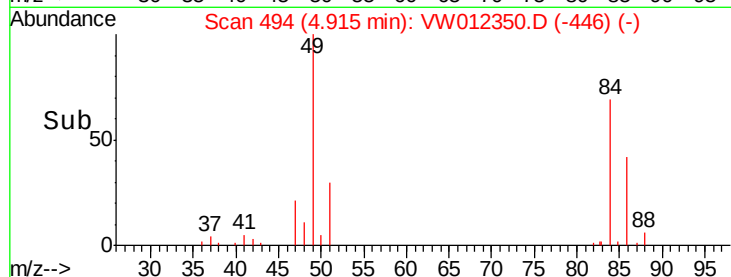
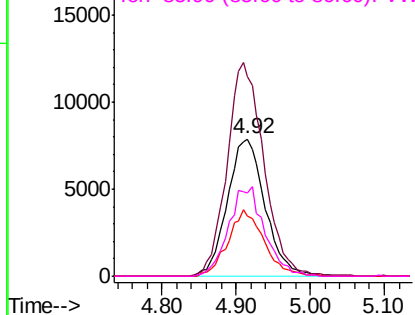
#20
Methylene Chloride
Concen: 11.363 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 27854
Ion Ratio Lower Upper
84 100
49 145.7 117.8 176.8
51 43.6 35.6 53.4
86 61.1 51.2 76.8

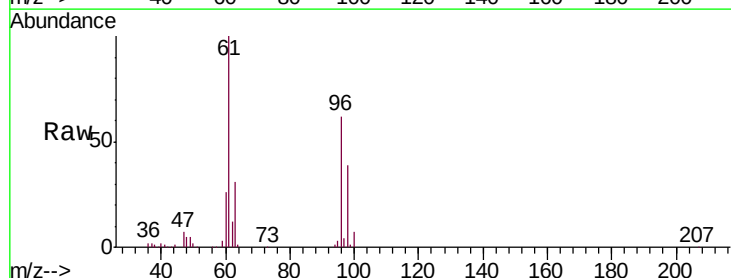


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

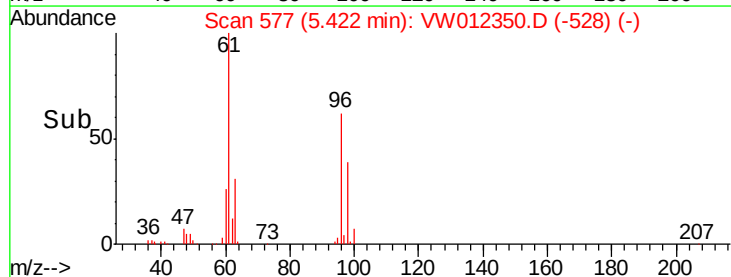
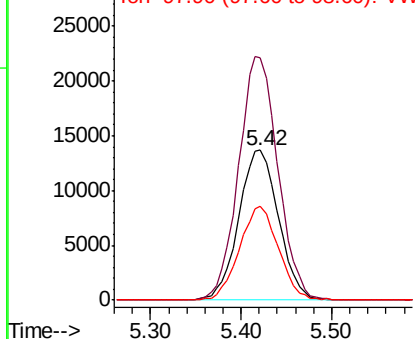


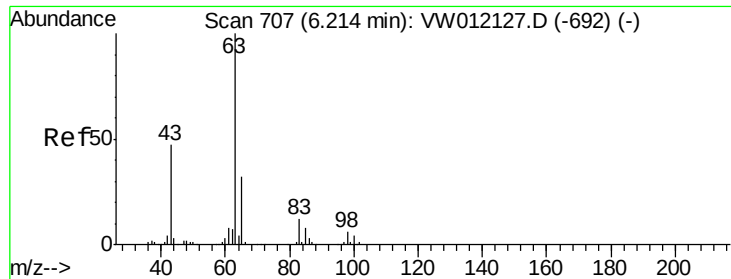
#21
trans-1,2-Dichloroethene
Concen: 18.125 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Tgt Ion: 96 Resp: 41601
Ion Ratio Lower Upper
96 100
61 161.0 131.4 197.0
98 62.3 51.4 77.0



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW





#24

1,1-Dichloroethane

Concen: 16.890 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :

MSVOA_W

ClientSampleId :

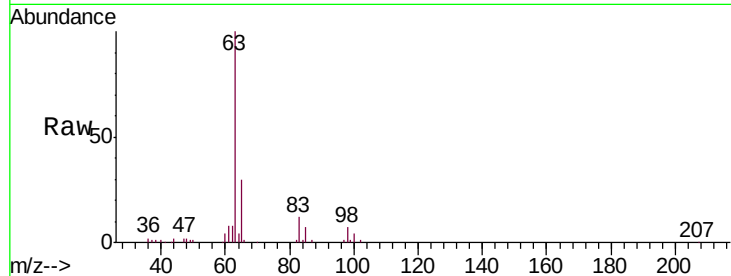
Tot Ion: 63 Resp: 77997

Ion Ratio Lower Upper

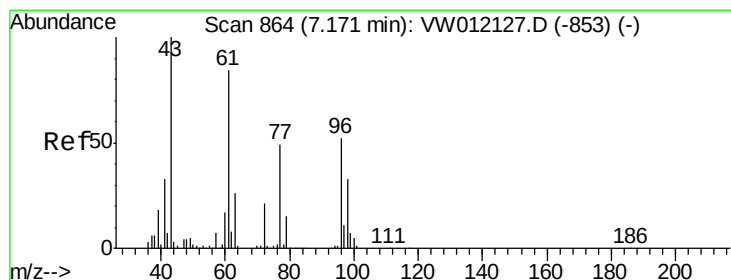
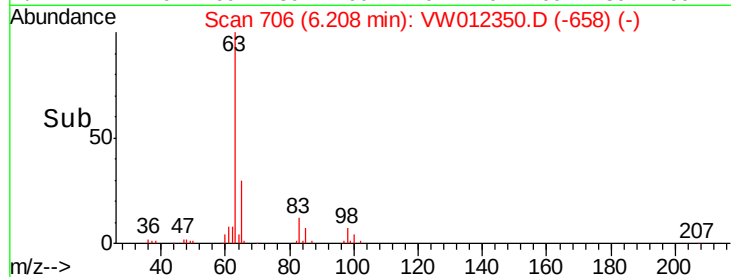
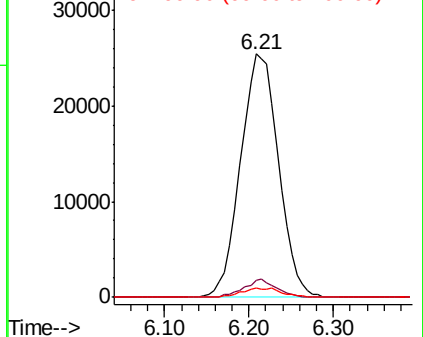
63 100

98 6.8 3.0 9.2

100 3.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VW
Ion 97.90 (97.60 to 98.60): VW
Ion 99.90 (99.60 to 100.60): VW



#25

2-Butanone

Concen: 7.637 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW012350.D

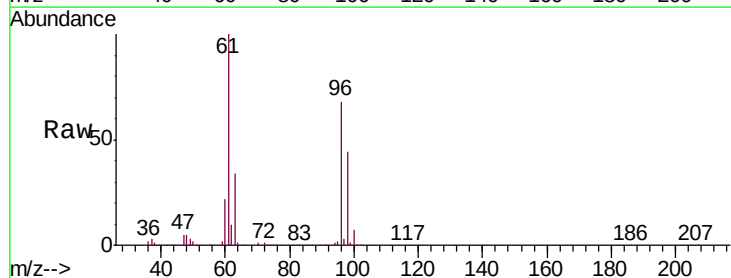
Acq: 30 Aug 2019 15:16

Tgt Ion: 43 Resp: 6729

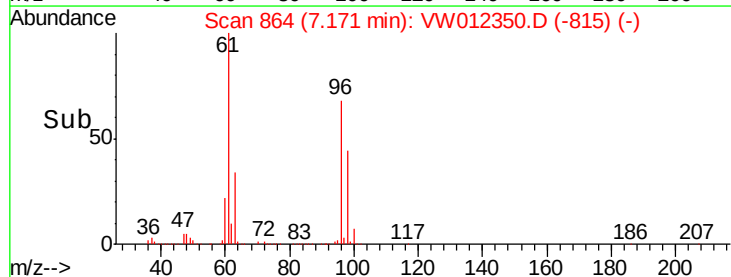
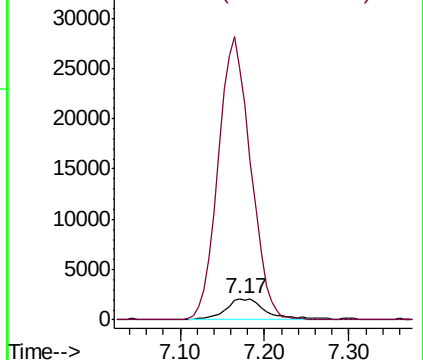
Ion Ratio Lower Upper

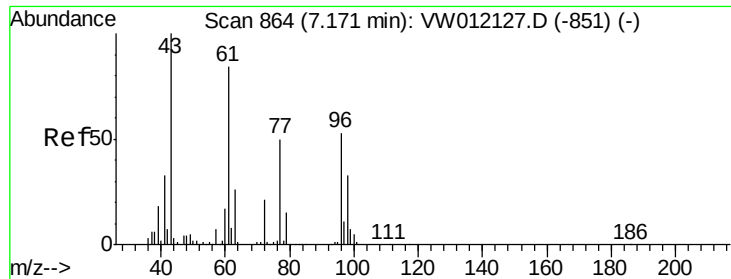
43 100

72 1207.1 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



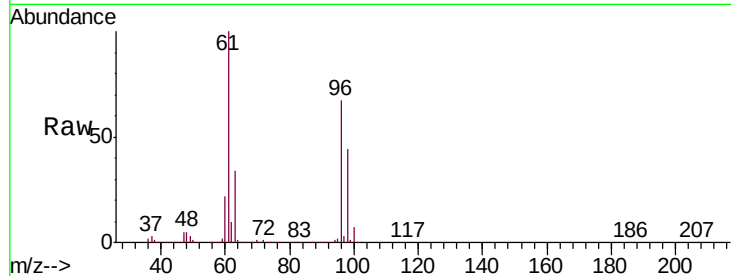


#27

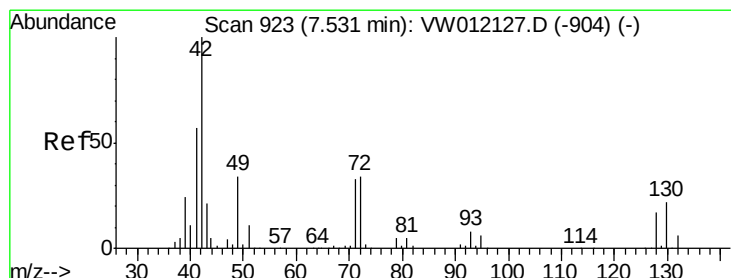
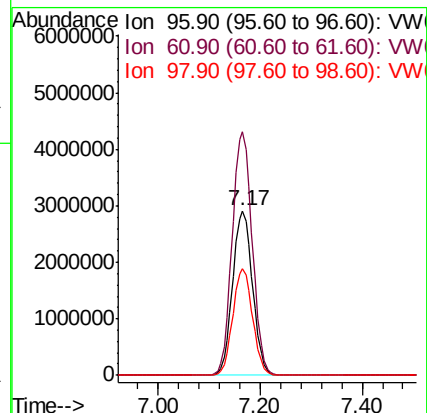
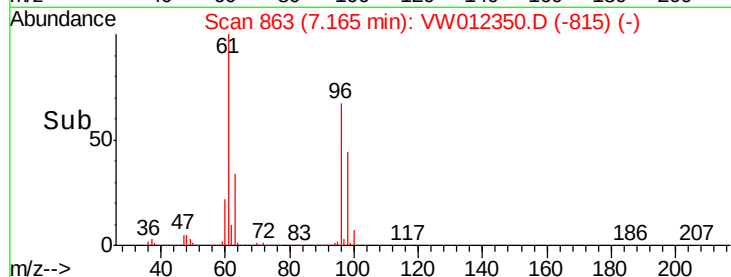
cis-1,2-Dichloroethene
 Concen: 3207.529 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012350.D
 Acq: 30 Aug 2019 15:16

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 96 Resp: 7865464
 Ion Ratio Lower Upper
 96 100
 61 149.0 0.0 326.6
 98 64.6 0.0 127.4



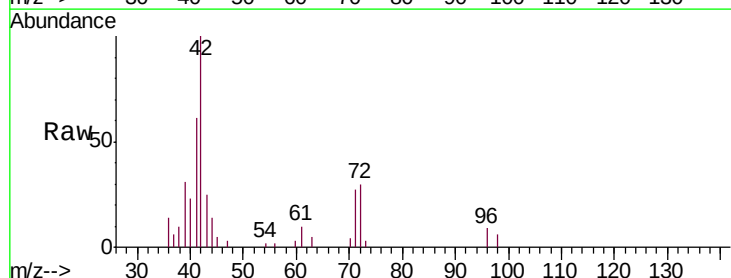
Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW



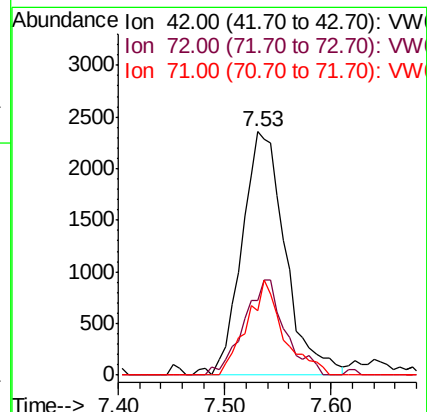
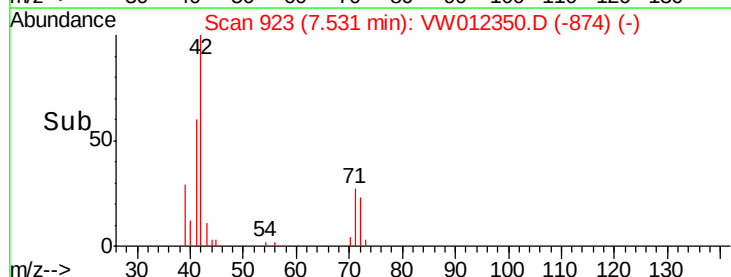
#29

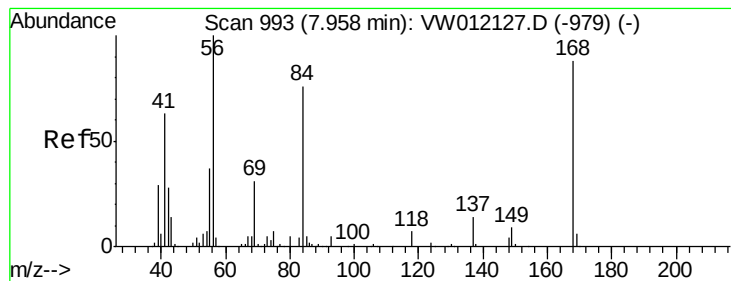
Tetrahydrofuran
 Concen: 12.737 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. -0.00 min
 Lab File: VW012350.D
 Acq: 30 Aug 2019 15:16

Tgt Ion: 42 Resp: 6733
 Ion Ratio Lower Upper
 42 100
 72 36.9 27.3 40.9
 71 32.7 25.5 38.3



Abundance Ion 42.00 (41.70 to 42.70): VW
 Ion 72.00 (71.70 to 72.70): VW
 Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.172 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :
MSVOA_W
ClientSampled :

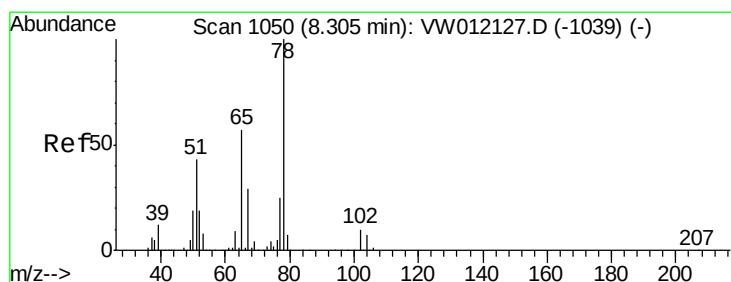
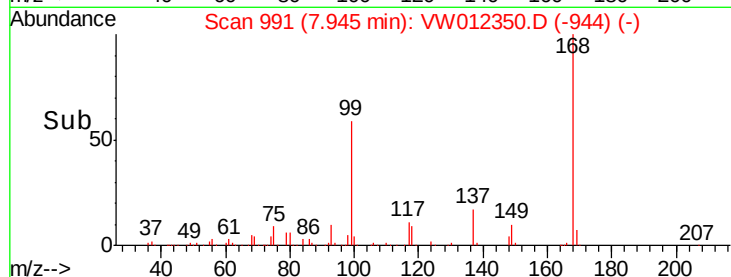
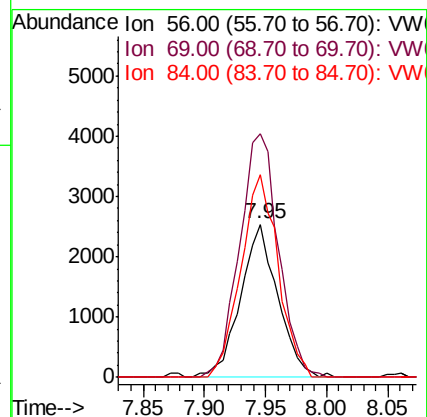
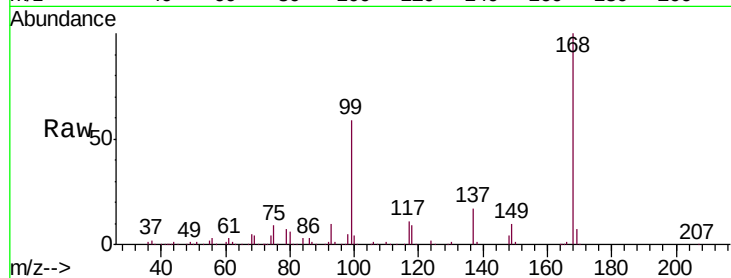
Tot Ion: 56 Resp: 5355

Ion Ratio Lower Upper

56 100

69 159.1 24.9 37.3#

84 132.5 60.6 90.8#



#33

1,2-Dichloroethane-d4

Concen: 52.310 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012350.D

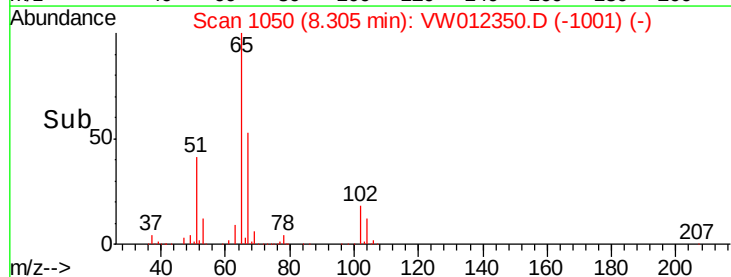
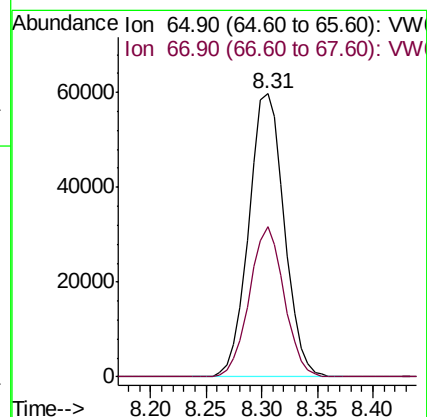
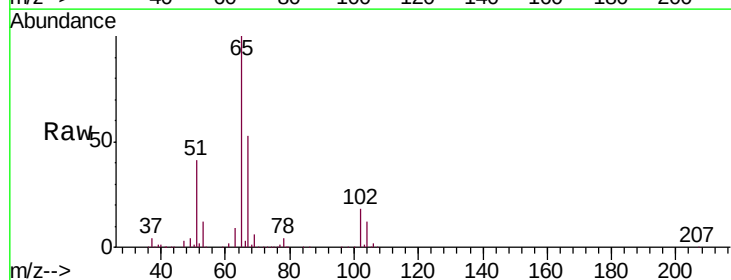
Acq: 30 Aug 2019 15:16

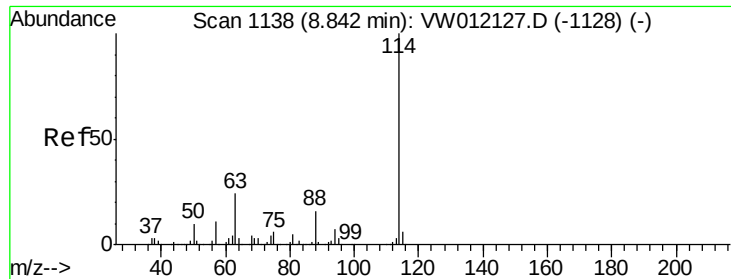
Tgt Ion: 65 Resp: 132690

Ion Ratio Lower Upper

65 100

67 52.0 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :

MSVOA_W

ClientSampleId :

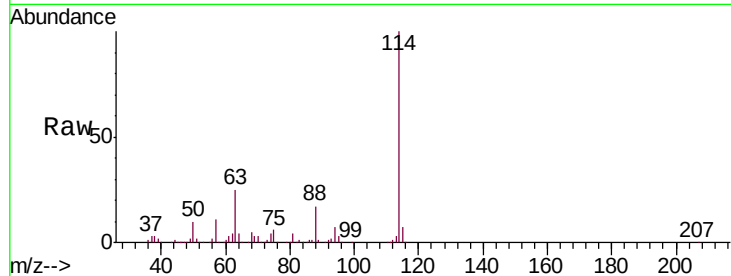
Tot Ion:114 Resp: 348319

Ion Ratio Lower Upper

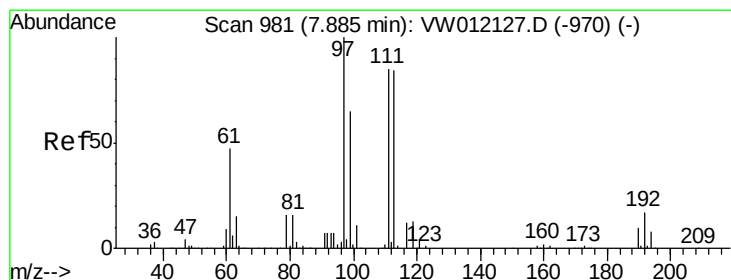
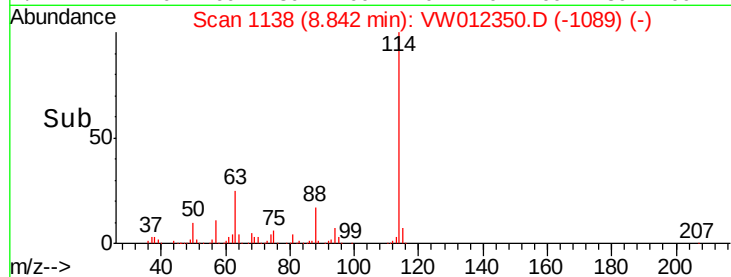
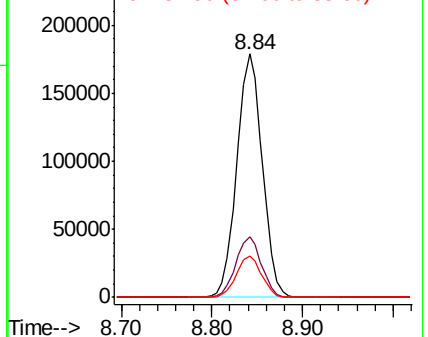
114 100

63 24.8 0.0 48.6

88 17.1 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 50.969 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

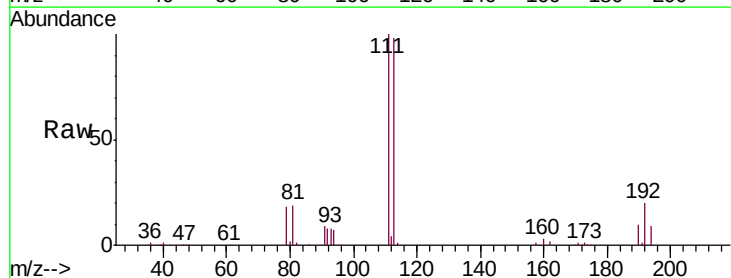
Tgt Ion:113 Resp: 105971

Ion Ratio Lower Upper

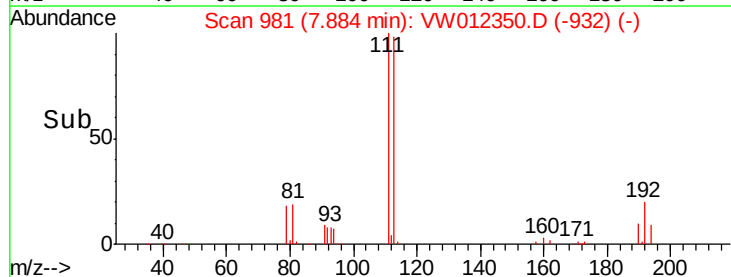
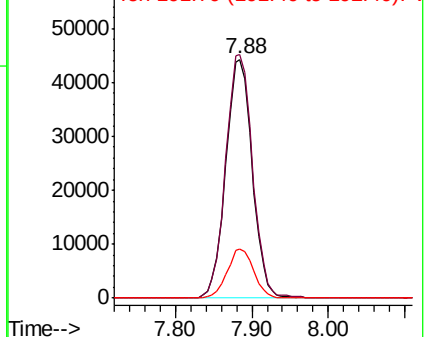
113 100

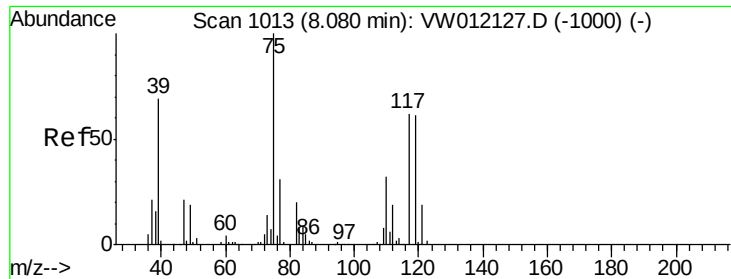
111 103.2 82.7 124.1

192 20.5 16.2 24.2



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

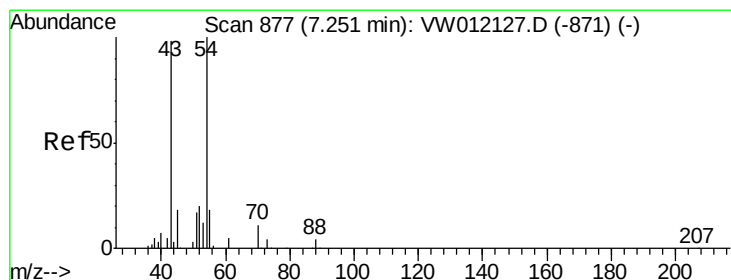
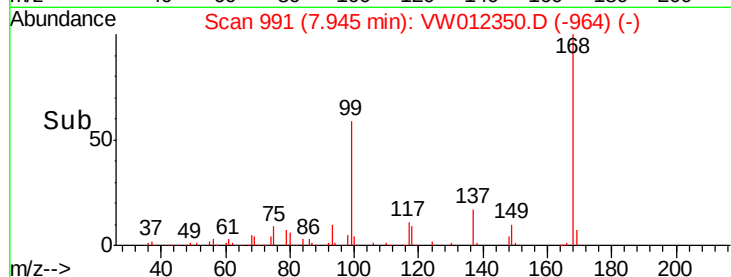
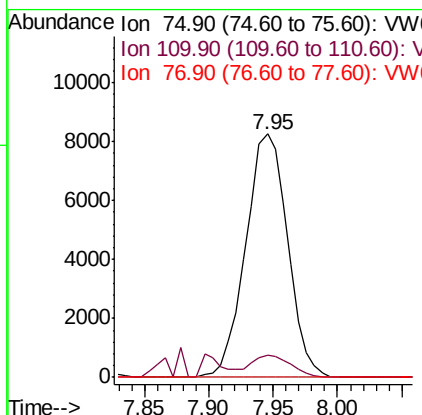
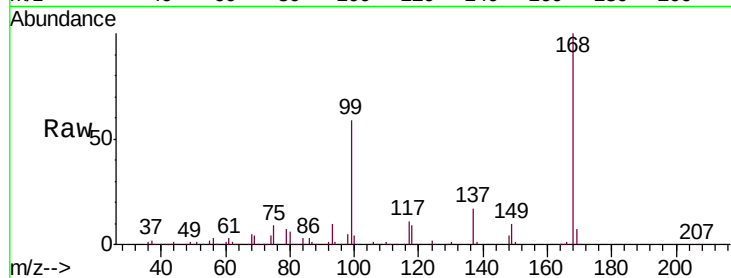




#36
 1,1-Dichloropropene
 Concen: 5.170 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012350.D
 Acq: 30 Aug 2019 15:16

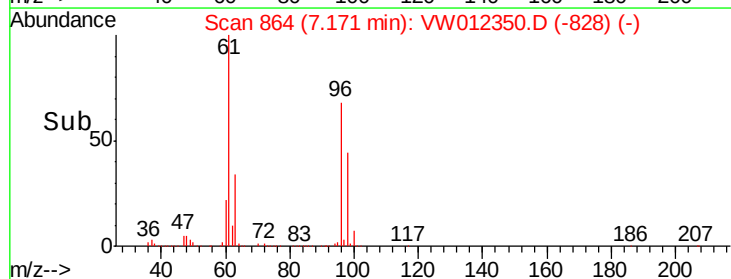
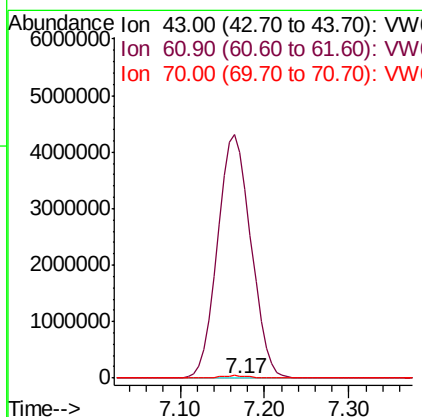
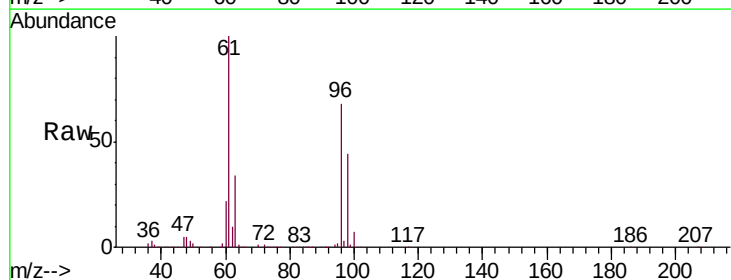
Instrument :
 MSVOA_W
 ClientSampled :

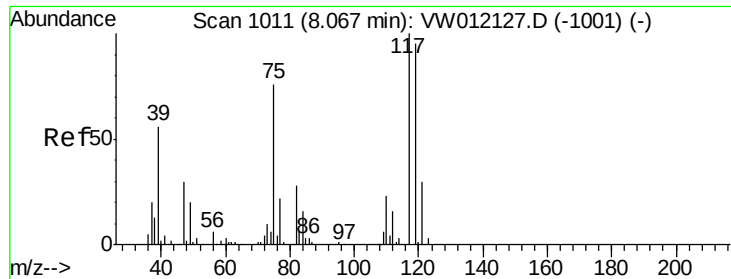
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	15.6	46.8#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 3.411 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.08 min
 Lab File: VW012350.D
 Acq: 30 Aug 2019 15:16

Tgt Ion	Ratio	Lower	Upper
43	100		
61	174217.2	9.2	13.8#
70	1635.4	6.9	10.3#





#38

Carbon Tetrachloride

Concen: 7.018 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :

MSVOA_W

ClientSampleId :

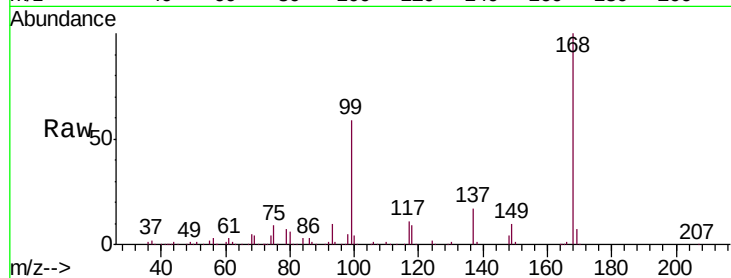
Tot Ion:117 Resp: 21863

Ion Ratio Lower Upper

117 100

119 4.4 76.2 114.2#

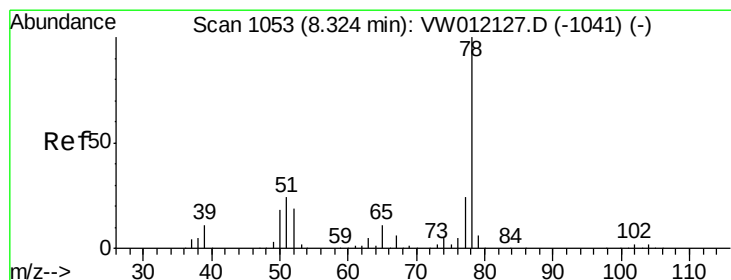
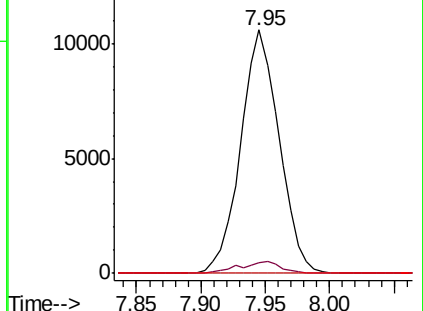
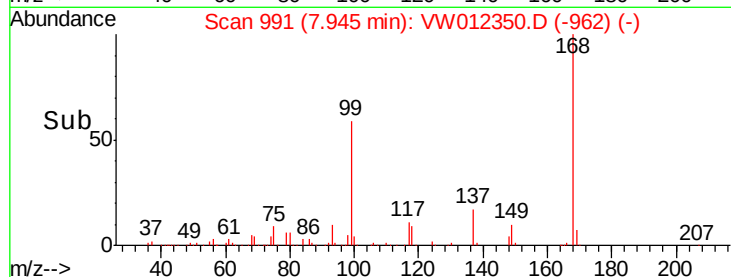
121 0.0 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 1.171 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW012350.D

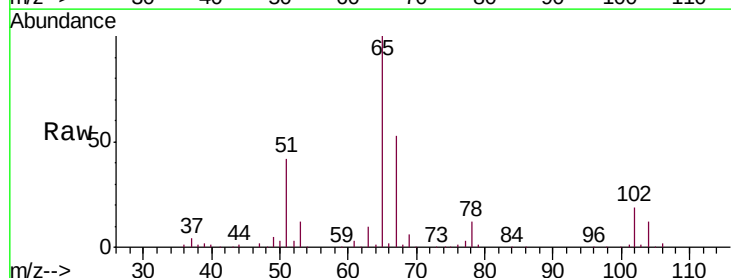
Acq: 30 Aug 2019 15:16

Tgt Ion: 78 Resp: 11507

Ion Ratio Lower Upper

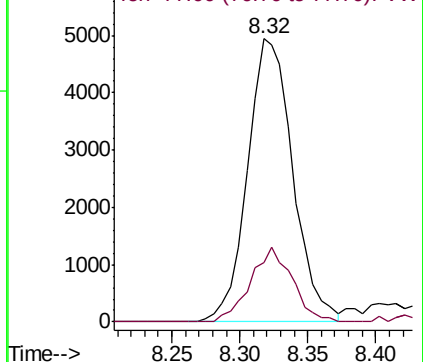
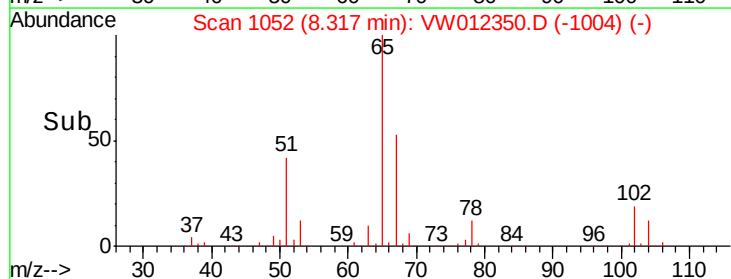
78 100

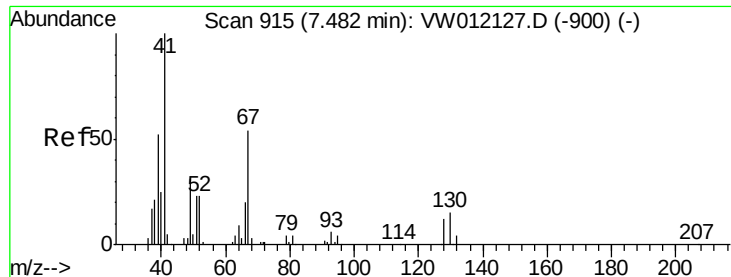
77 21.2 19.5 29.3



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW

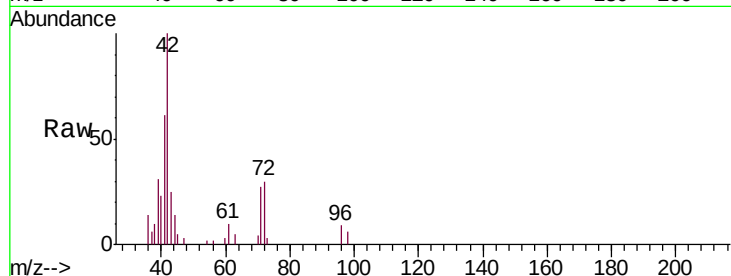




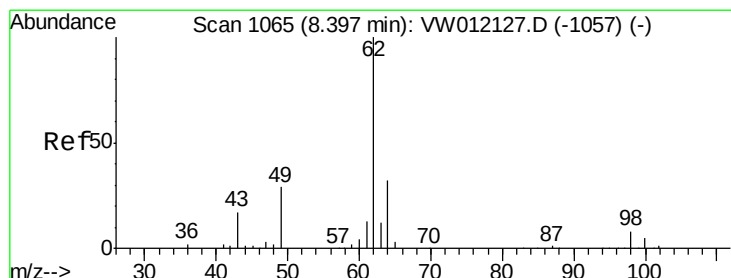
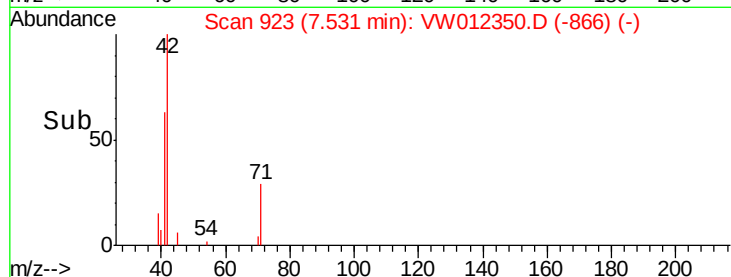
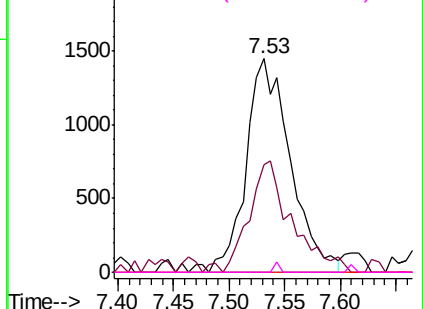
#41
Methacrylonitrile
Concen: 3.481 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	41	Resp:	4036
Ion	Ratio	Lower	Upper
41	100		
39	50.3	45.8	68.8
67	0.0	46.2	69.4#
52	0.6	21.0	31.6#

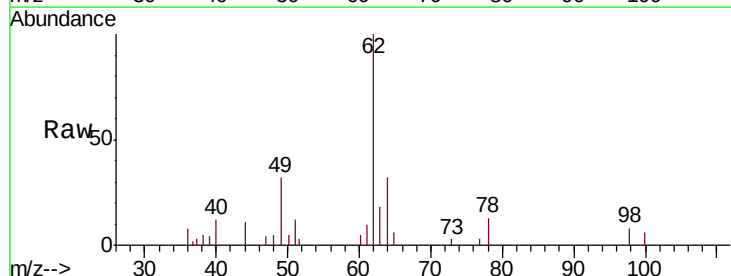


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

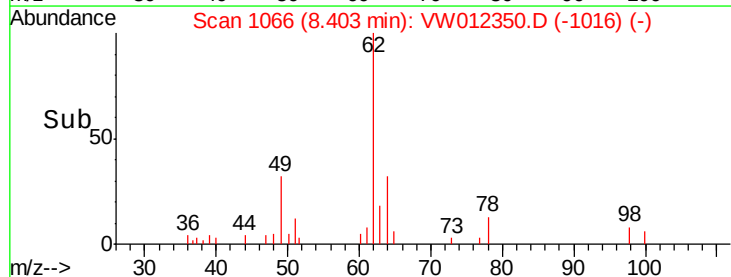
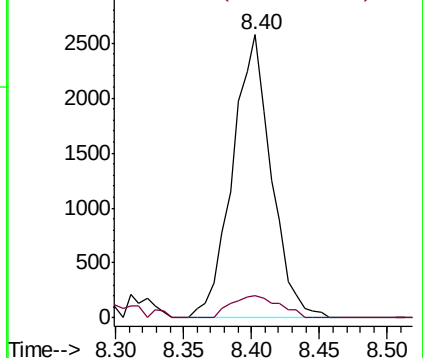


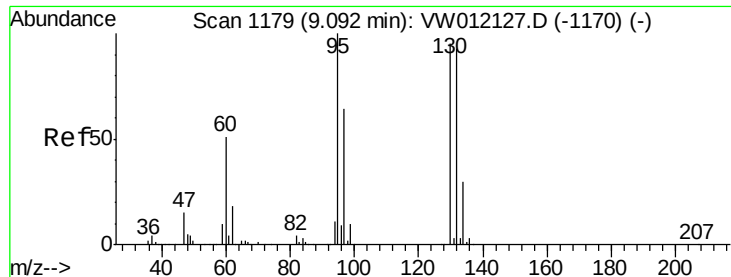
#42
1,2-Dichloroethane
Concen: 1.665 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Tgt Ion:	62	Resp:	5130
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	16.6



Abundance Ion 61.90 (61.60 to 62.60): VW
Ion 97.90 (97.60 to 98.60): VW





#44

Trichloroethene

Concen: 35.139 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :

MSVOA_W

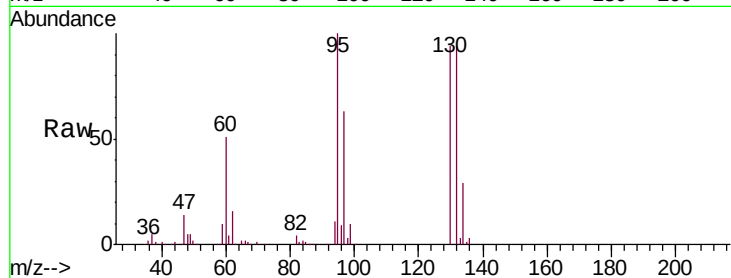
ClientSampled :

Tot Ion:130 Resp: 83957

Ion Ratio Lower Upper

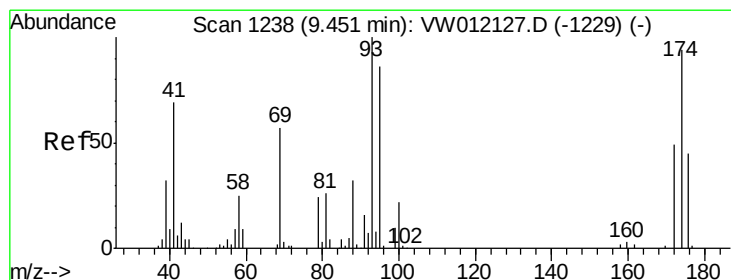
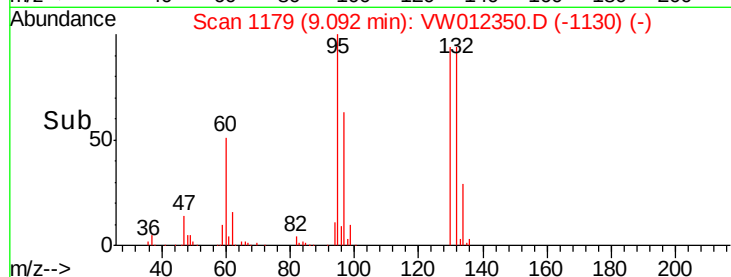
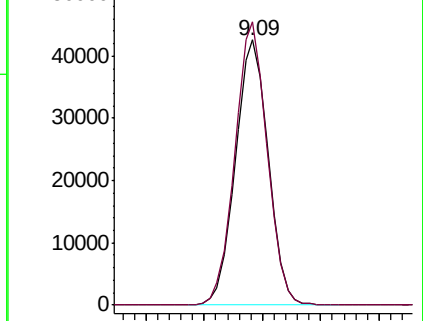
130 100

95 106.7 0.0 210.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#49

1,4-Dioxane

Concen: 6.383 ug/l

RT: 9.48 min Scan# 1242

Delta R.T. 0.02 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

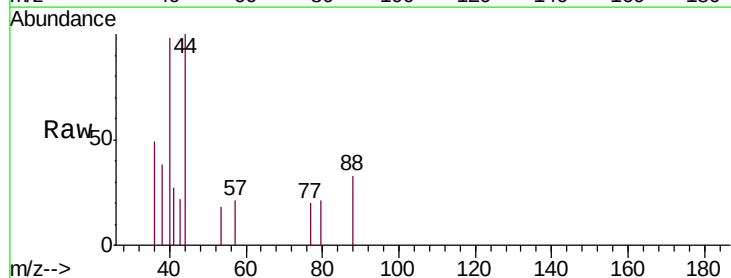
Tgt Ion: 88 Resp: 115

Ion Ratio Lower Upper

88 100

43 0.0 32.9 49.3#

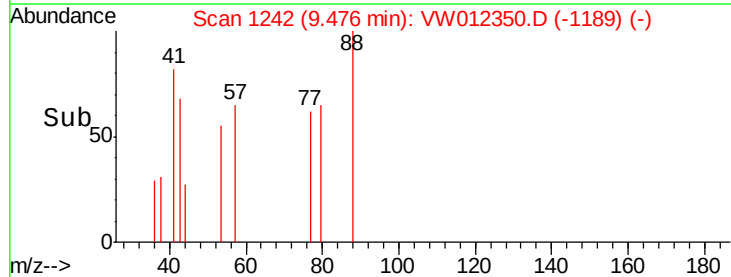
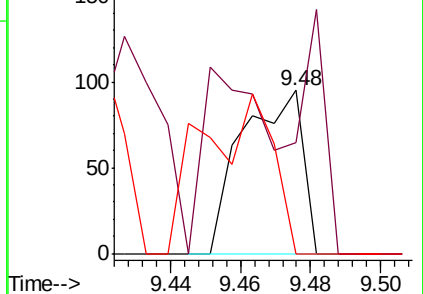
58 0.0 71.0 106.4#

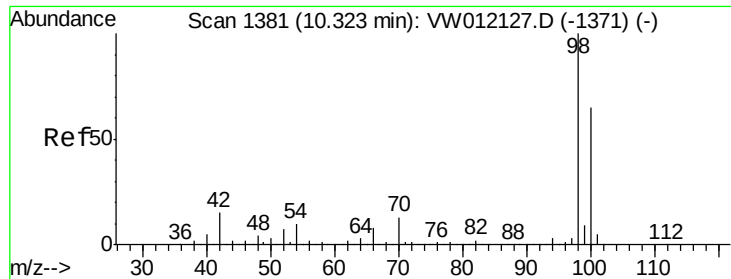


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

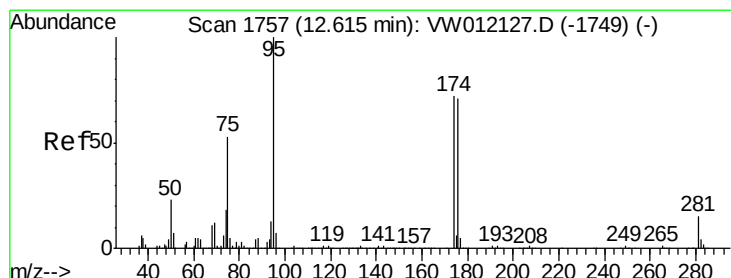
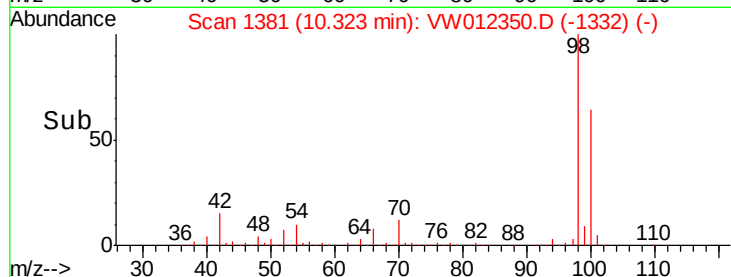
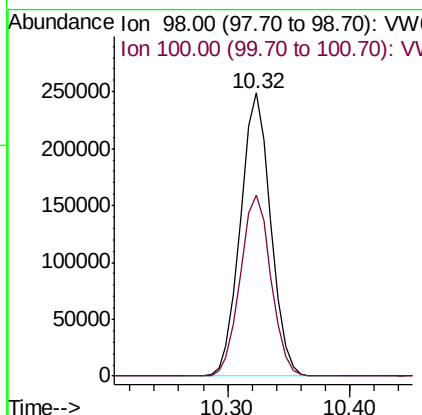
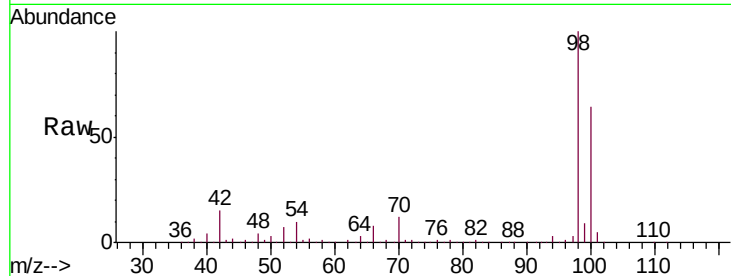




#50
Toluene-d8
Concen: 50.662 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

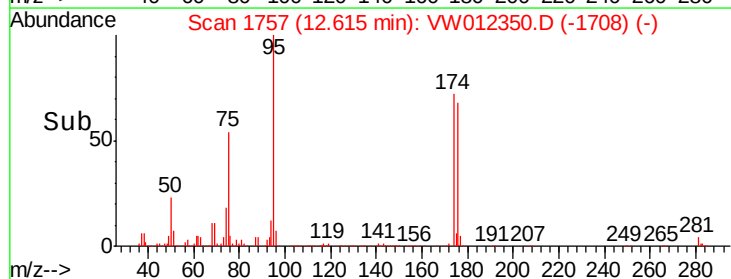
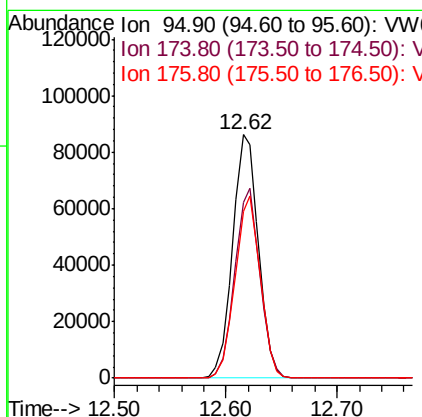
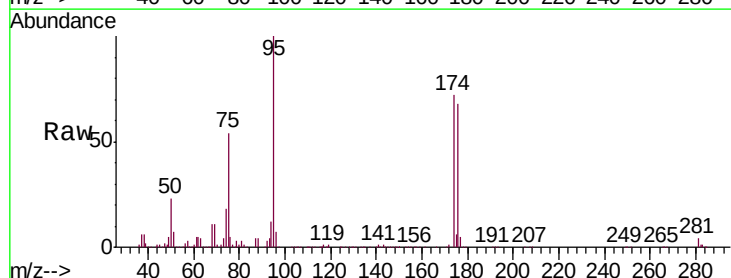
Instrument :
MSVOA_W
ClientSampled :

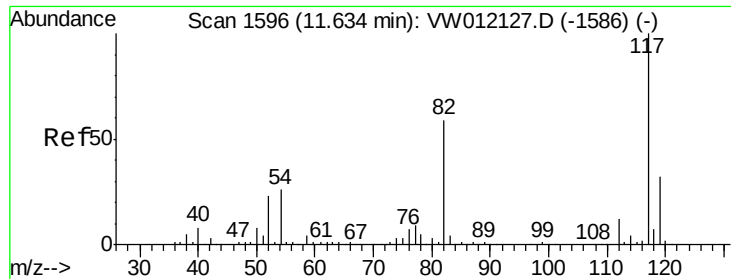
Tot Ion: 98 Resp: 427094
Ion Ratio Lower Upper
98 100
100 64.8 52.4 78.6



#62
4-Bromofluorobenzene
Concen: 46.335 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Tgt Ion: 95 Resp: 137693
Ion Ratio Lower Upper
95 100
174 76.2 0.0 150.8
176 73.2 0.0 148.6

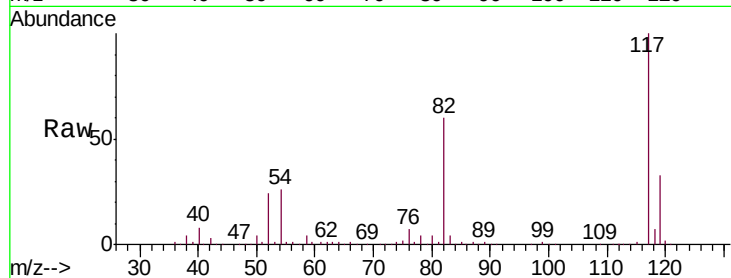




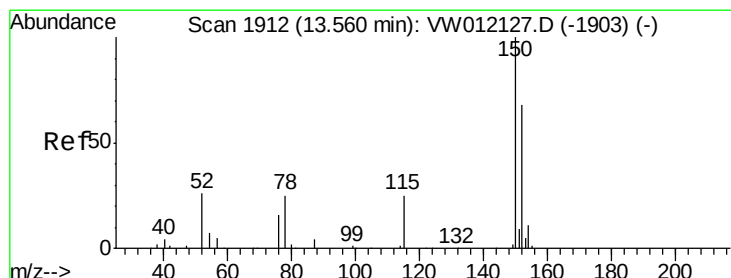
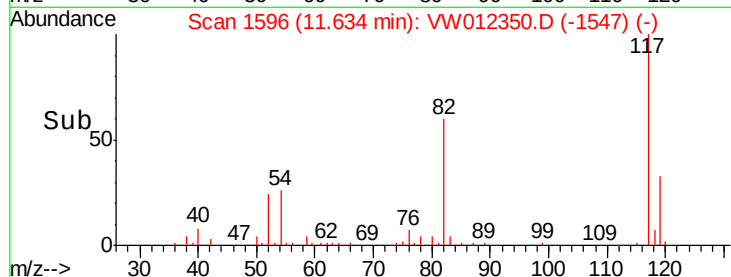
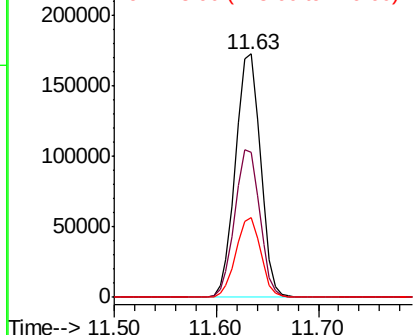
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 292602
Ion Ratio Lower Upper
117 100
82 59.5 47.4 71.2
119 32.8 25.4 38.2

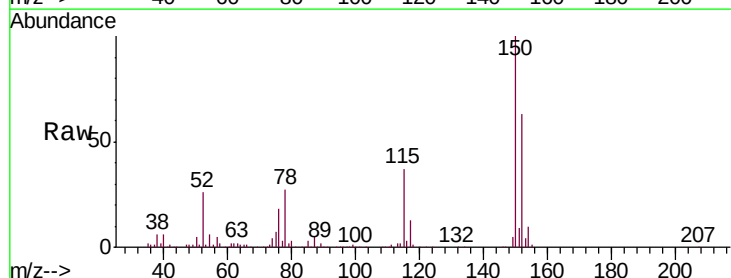


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

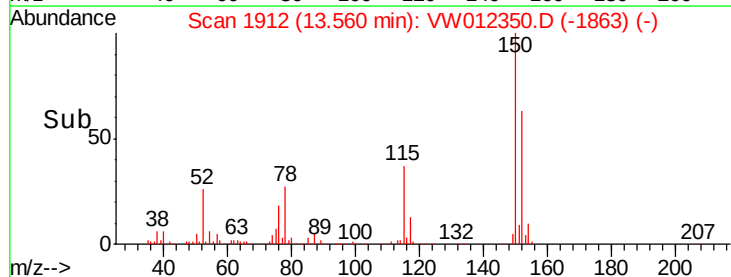
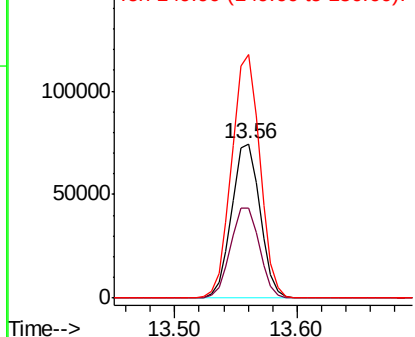


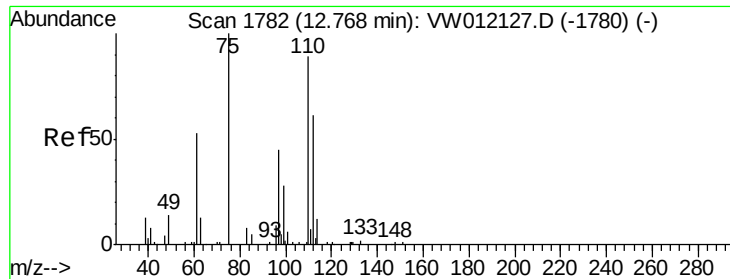
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012350.D
Acq: 30 Aug 2019 15:16

Tgt Ion:152 Resp: 119763
Ion Ratio Lower Upper
152 100
115 59.4 30.1 90.3
150 156.8 0.0 345.8



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: 63.516 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :

MSVOA_W

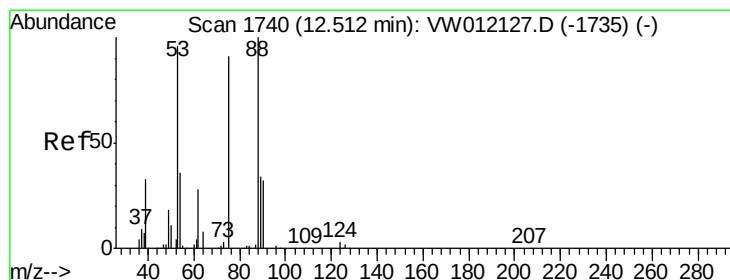
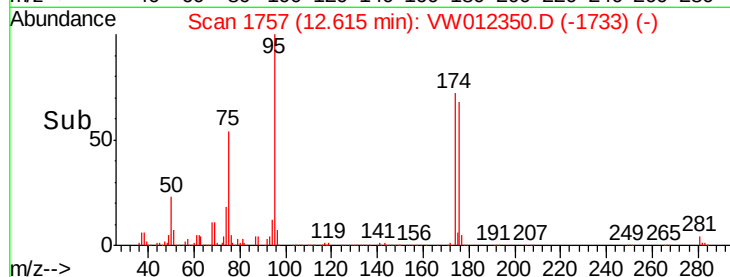
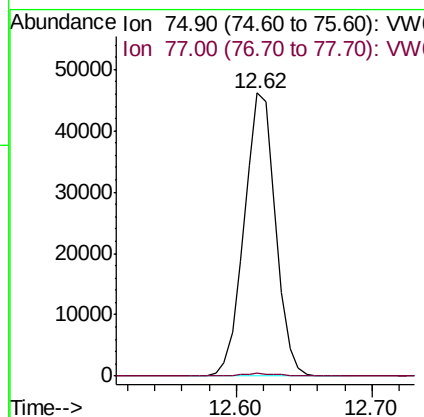
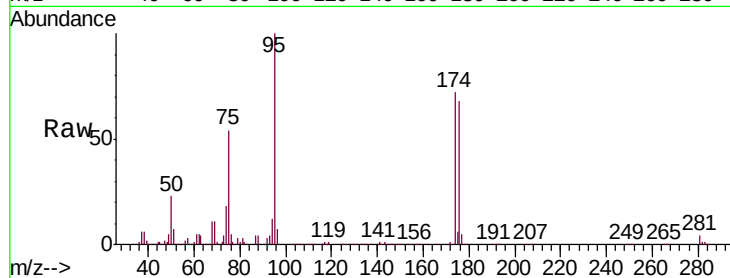
ClientSampled :

Tot Ion: 75 Resp: 74086

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 139.262 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

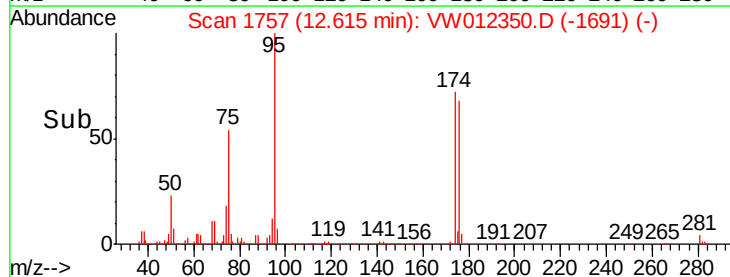
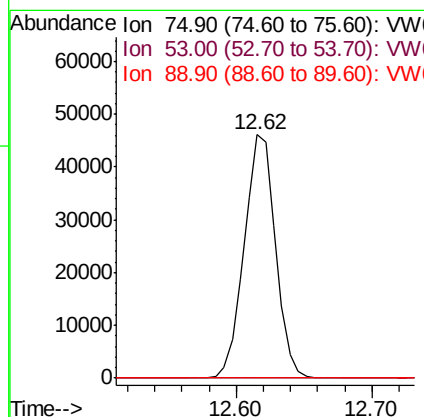
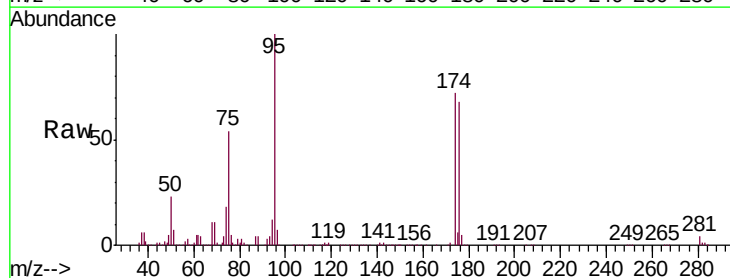
Tgt Ion: 75 Resp: 74086

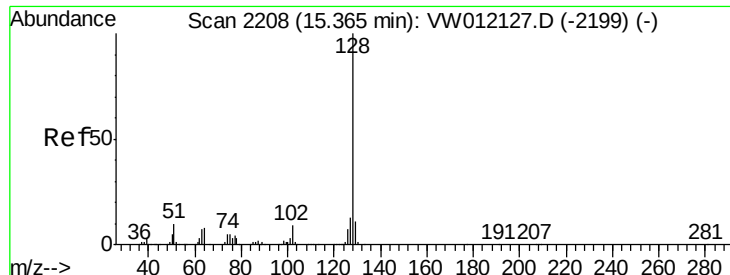
Ion Ratio Lower Upper

75 100

53 0.2 89.4 134.0#

89 0.1 34.5 51.7#





#95

Naphthalene

Concen: 4.352 ug/l

RT: 15.38 min Scan# 2211

Delta R.T. 0.02 min

Lab File: VW012350.D

Acq: 30 Aug 2019 15:16

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:128 Resp: 153

Ion Ratio Lower Upper

128 100

127 14.4 10.7 16.1

129 0.0 8.7 13.1#

