

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090319\
 Data File : VW012548.D
 Acq On : 03 Sep 2019 15:56
 Operator : SY/VA
 Sample : K4514-05
 Misc : 5.39G/5ML/MSVOA W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 03 16:24:20 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

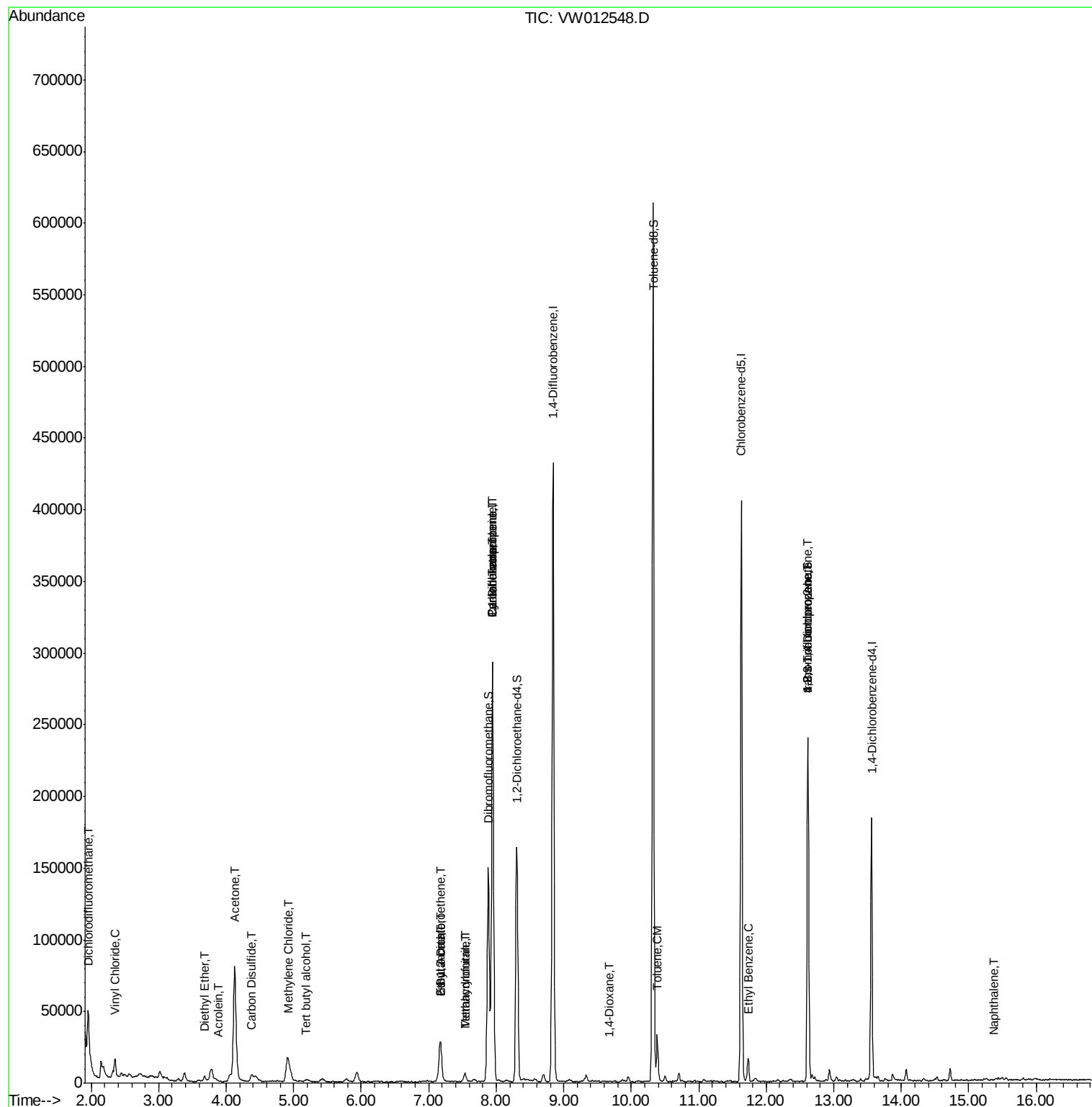
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	212178	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	334776	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	217577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	47180	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	133406	52.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.78%	
35) Dibromofluoromethane	7.88	113	106950	53.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.04%	
50) Toluene-d8	10.32	98	385137	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
62) 4-Bromofluorobenzene	12.62	95	75797	26.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	53.08%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.96	85	1344	1.029	ug/l	86
4) Vinyl Chloride	2.35	62	3904	1.576	ug/l	91
8) Diethyl Ether	3.68	74	1764	1.494	ug/l	64
11) Tert butyl alcohol	5.18	59	1153	7.596	ug/l #	68
13) Acrolein	3.89	56	255	1.785	ug/l #	41
16) Acetone	4.12	43	151459	234.912	ug/l	99
17) Carbon Disulfide	4.38	76	9298	1.446	ug/l	95
20) Methylene Chloride	4.92	84	12468	5.115	ug/l #	79
25) 2-Butanone	7.18	43	30681	35.018	ug/l	93
27) cis-1,2-Dichloroethene	7.17	96	6139	2.518	ug/l	90
29) Tetrahydrofuran	7.54	42	5250	9.988	ug/l	98
31) Cyclohexane	7.94	56	5996	1.320	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	18415	5.323	ug/l #	52
37) Ethyl Acetate	7.18	43	30681	16.184	ug/l #	64
38) Carbon Tetrachloride	7.95	117	21630	7.224	ug/l #	16
41) Methacrylonitrile	7.54	41	3385	3.038	ug/l #	51
49) 1,4-Dioxane	9.67	88	19	1.097	ug/l #	1
52) Toluene	10.38	92	13176	2.322	ug/l	98
67) Ethyl Benzene	11.73	91	10658	1.291	ug/l	94
76) 1,2,3-Trichloropropane	12.62	75	40834	88.866	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	40834	194.842	ug/l #	6
95) Naphthalene	15.36	128	225	4.437	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

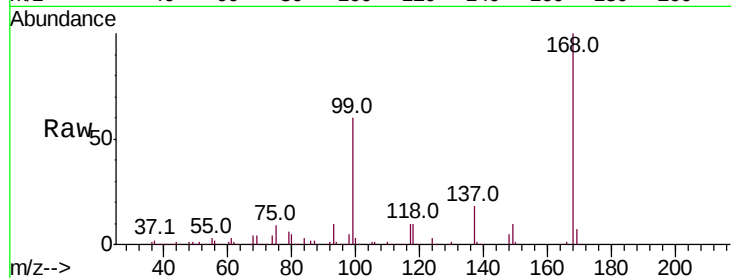
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 212178

Ion Ratio Lower Upper

168 100

99 60.1 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

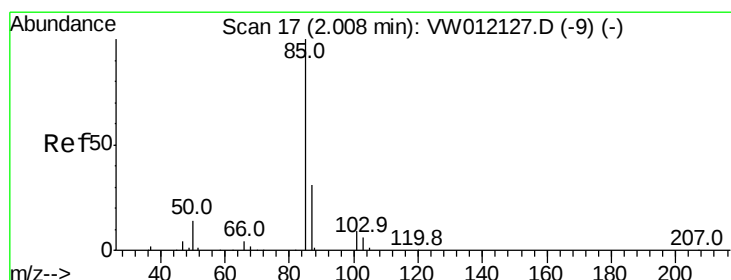
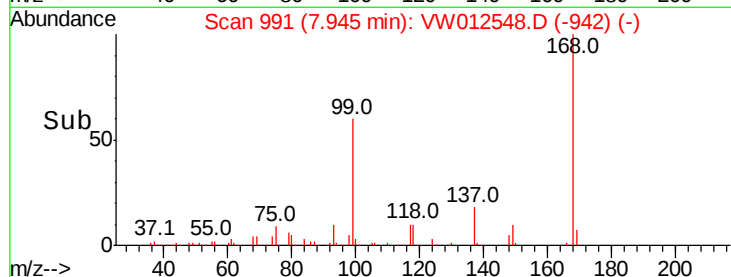
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 1.029 ug/l

RT: 1.96 min Scan# 9

Delta R.T. -0.05 min

Lab File: VW012548.D

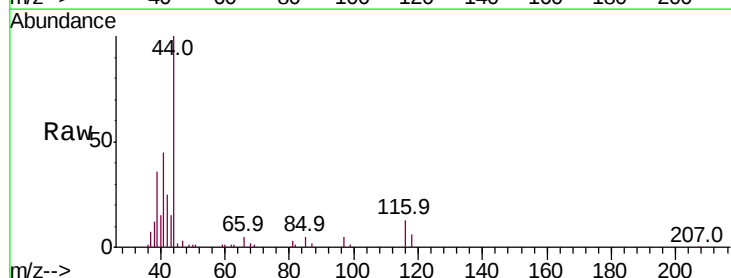
Acq: 03 Sep 2019 15:56

Tgt Ion: 85 Resp: 1344

Ion Ratio Lower Upper

85 100

87 39.1 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

1.96

800

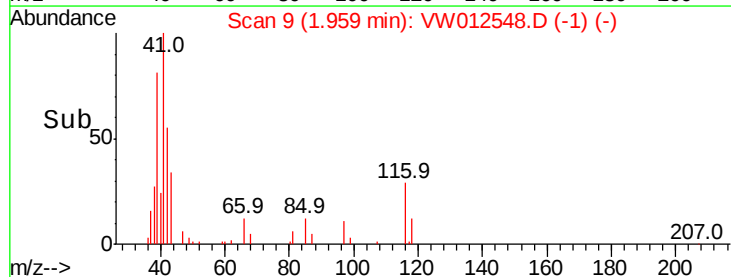
600

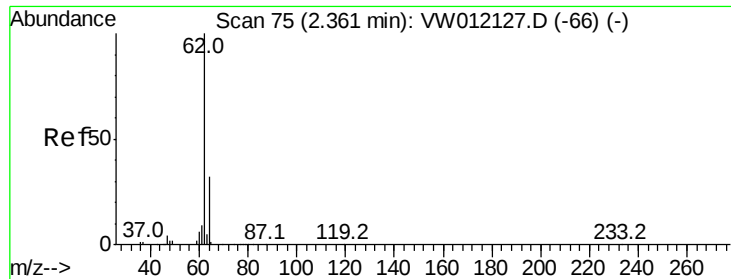
400

200

0

Time--> 1.90 1.95 2.00





#4

Vinyl Chloride

Concen: 1.576 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Instrument :

MSVOA_W

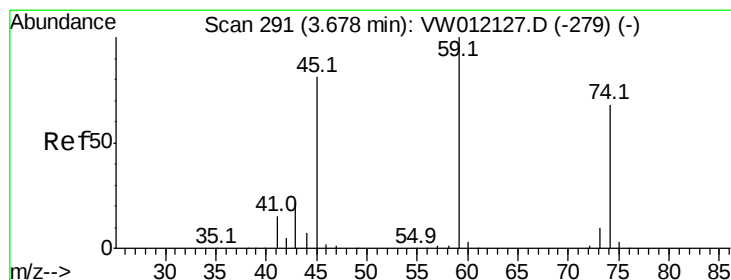
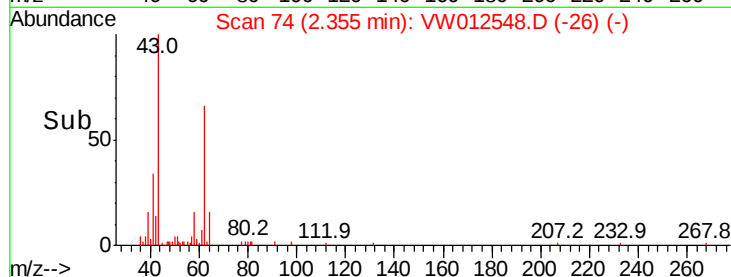
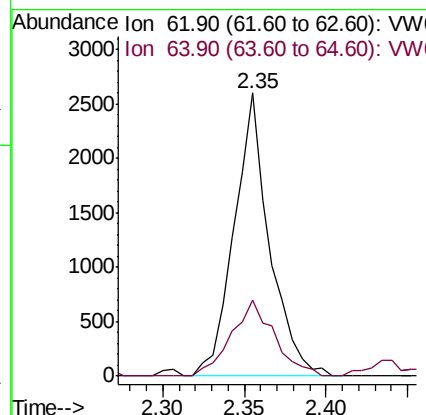
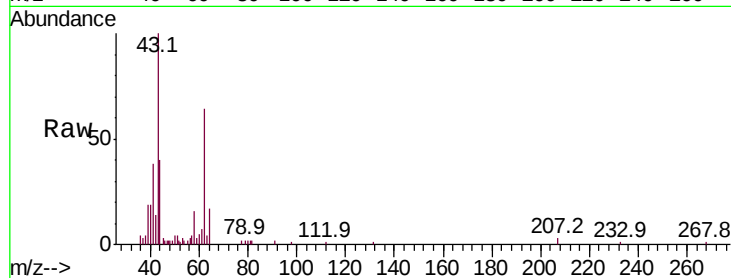
ClientSampleId :

Tot Ion: 62 Resp: 3904

Ion Ratio Lower Upper

62 100

64 26.7 25.3 37.9



#8

Diethyl Ether

Concen: 1.494 ug/l

RT: 3.68 min Scan# 292

Delta R.T. 0.01 min

Lab File: VW012548.D

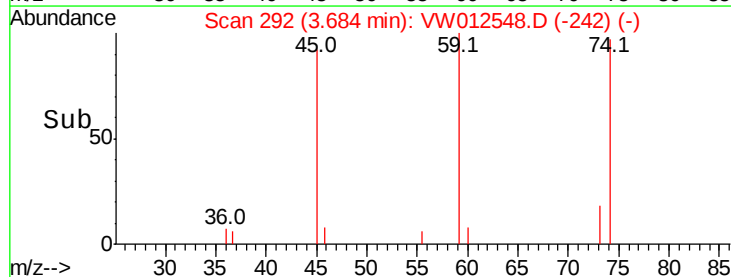
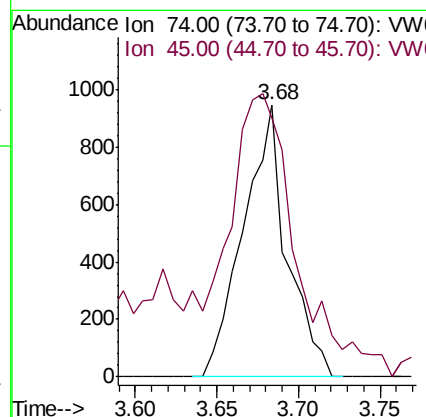
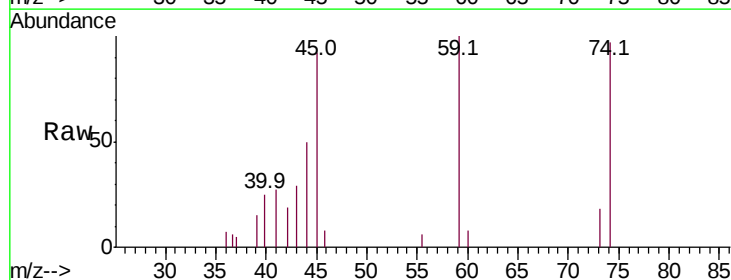
Acq: 03 Sep 2019 15:56

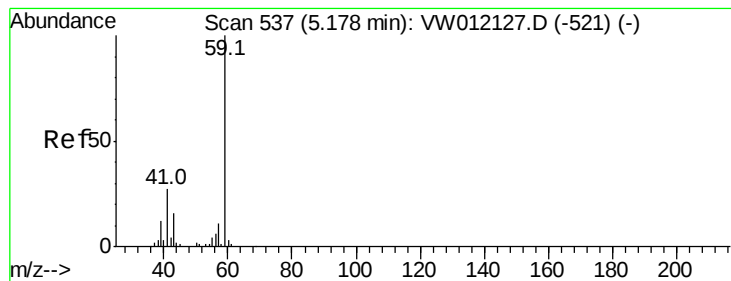
Tgt Ion: 74 Resp: 1764

Ion Ratio Lower Upper

74 100

45 157.8 59.2 177.6



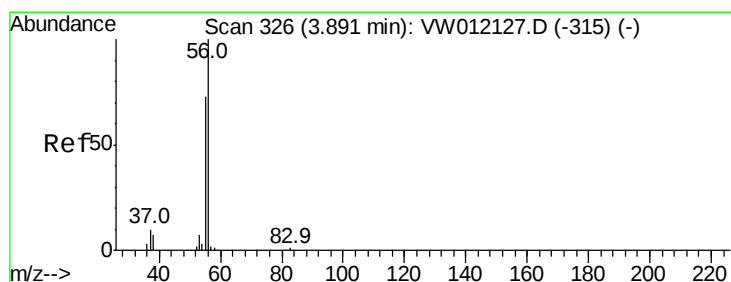
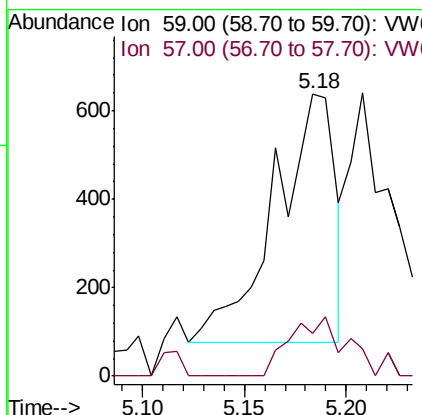
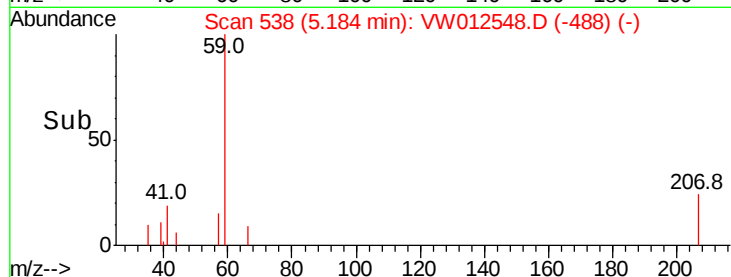
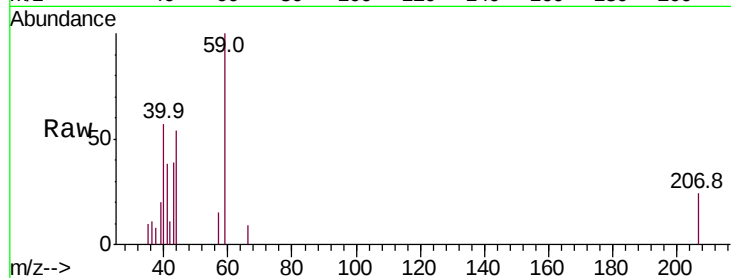


#11

Tert butyl alcohol
Concen: 7.596 ug/l
RT: 5.18 min Scan# 538
Delta R.T. 0.01 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

Instrument :
MSVOA_W
ClientSampled :

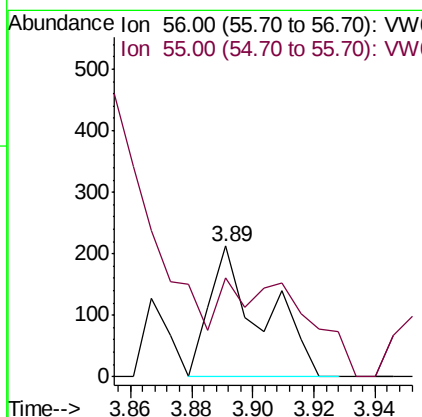
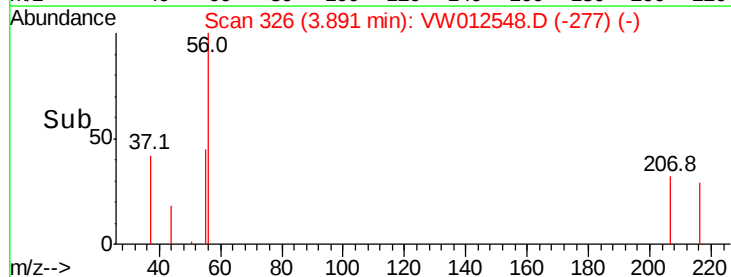
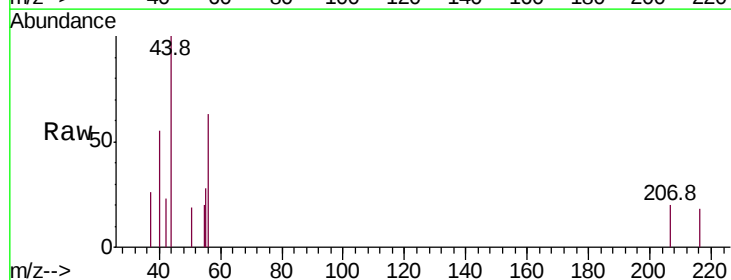
Tot Ion: 59 Resp: 1153
Ion Ratio Lower Upper
59 100
57 23.5 9.0 13.4#

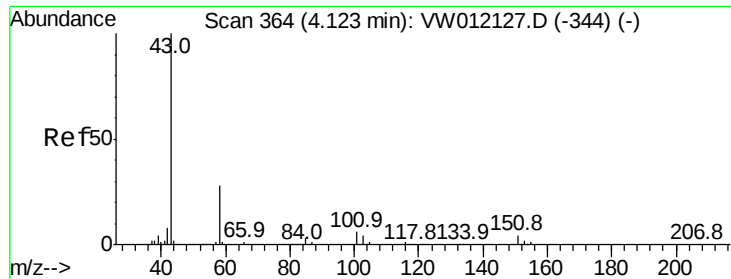


#13

Acrolein
Concen: 1.785 ug/l
RT: 3.89 min Scan# 326
Delta R.T. -0.00 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

Tgt Ion: 56 Resp: 255
Ion Ratio Lower Upper
56 100
55 118.4 55.8 83.8#





#16

Acetone

Concen: 234.912 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Instrument :

MSVOA_W

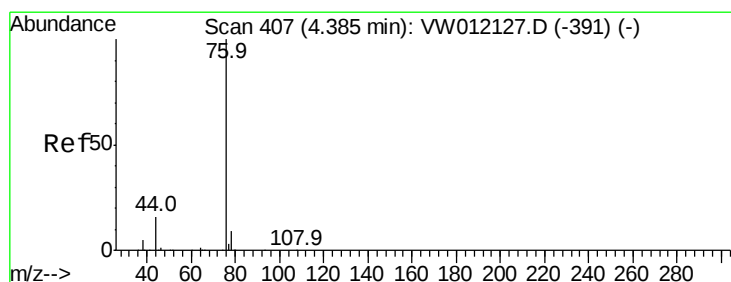
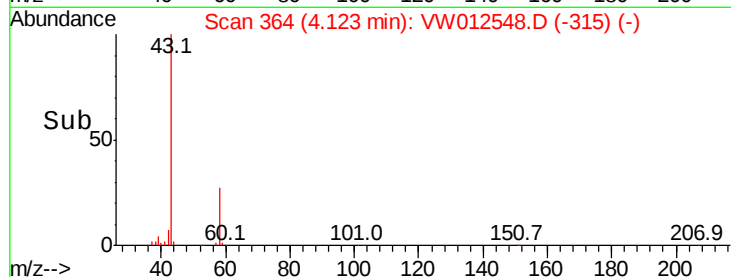
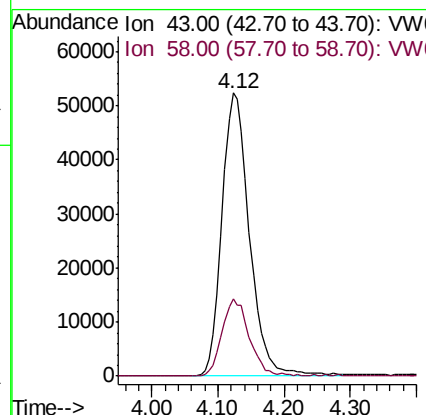
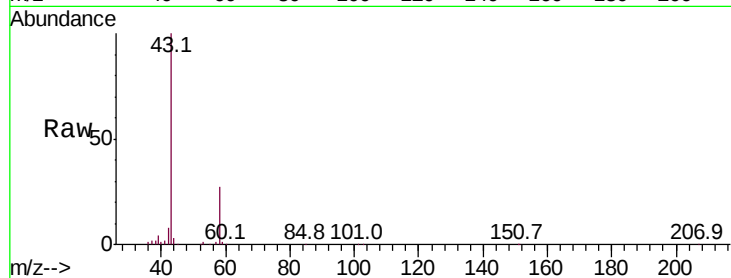
ClientSampleId :

Tot Ion: 43 Resp: 151459

Ion Ratio Lower Upper

43 100

58 27.2 22.4 33.6



#17

Carbon Disulfide

Concen: 1.446 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW012548.D

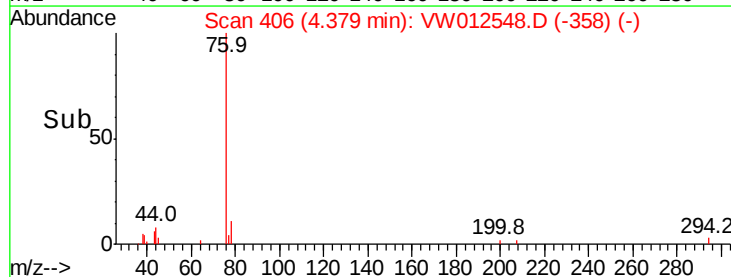
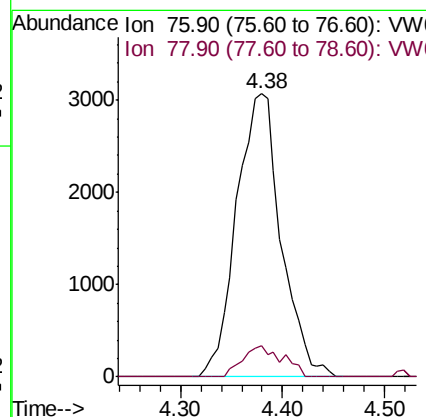
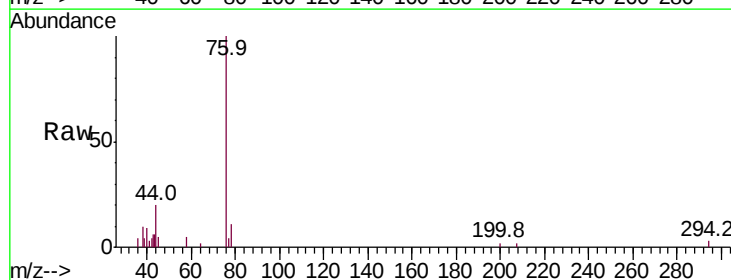
Acq: 03 Sep 2019 15:56

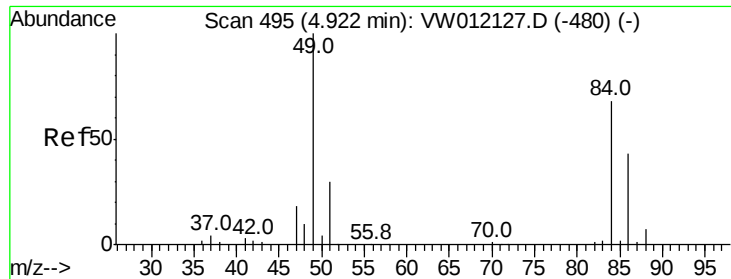
Tgt Ion: 76 Resp: 9298

Ion Ratio Lower Upper

76 100

78 10.8 7.3 10.9

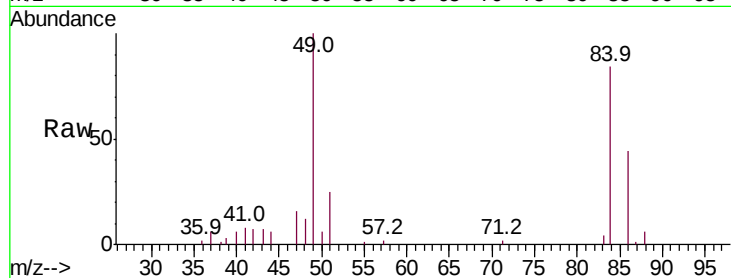




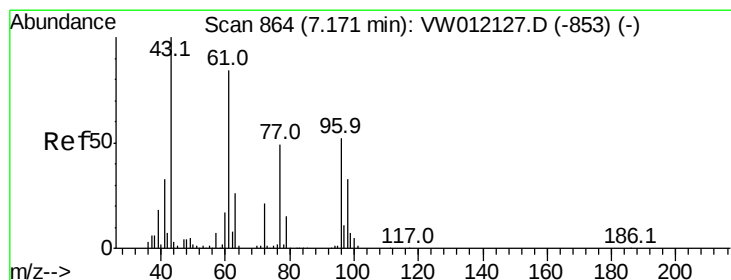
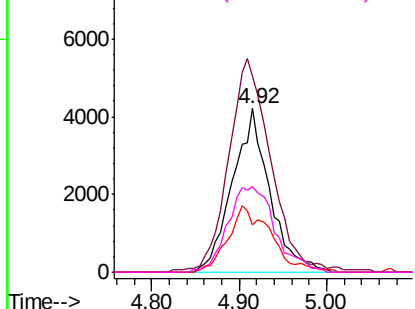
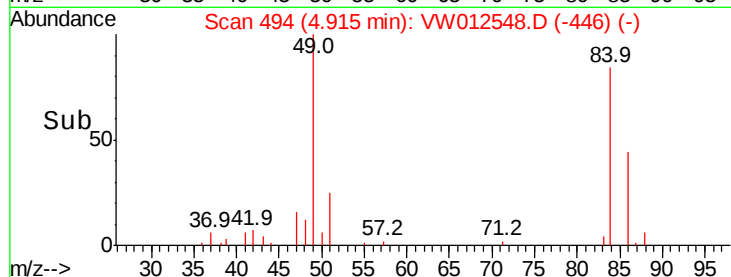
#20
Methvlene Chloride
Concen: 5.115 ug/l
RT: 4.92 min Scan# 494
Delta R.T. -0.01 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 12468
Ion Ratio Lower Upper
84 100
49 117.3 117.8 176.8#
51 29.3 35.6 53.4#
86 52.6 51.2 76.8

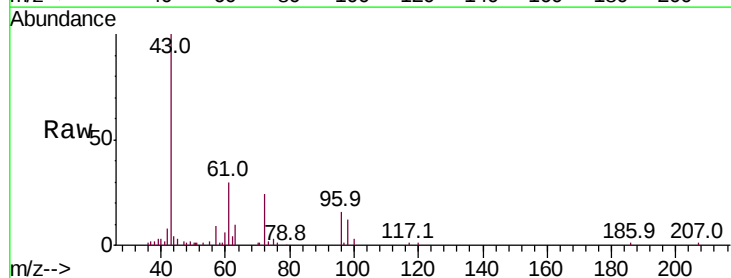


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

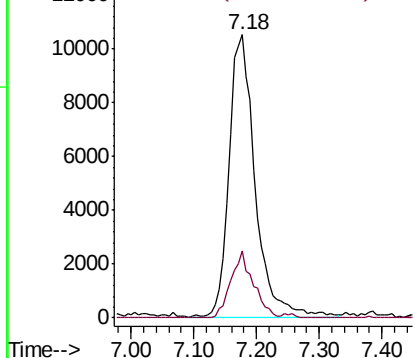
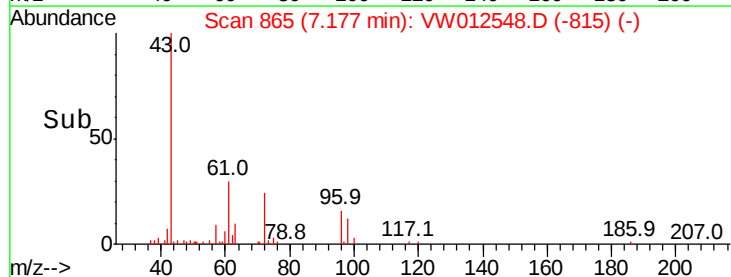


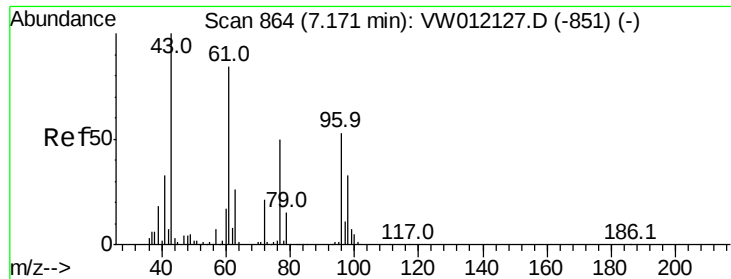
#25
2-Butanone
Concen: 35.018 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

Tgt Ion: 43 Resp: 30681
Ion Ratio Lower Upper
43 100
72 23.8 16.6 24.8



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

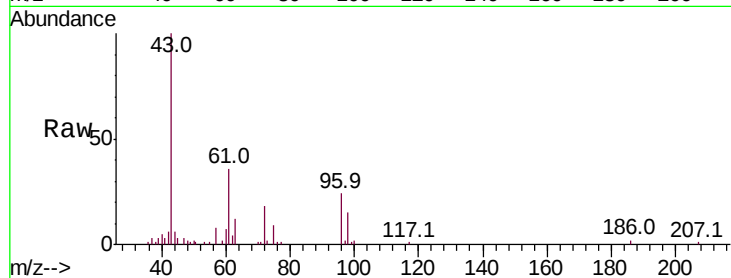




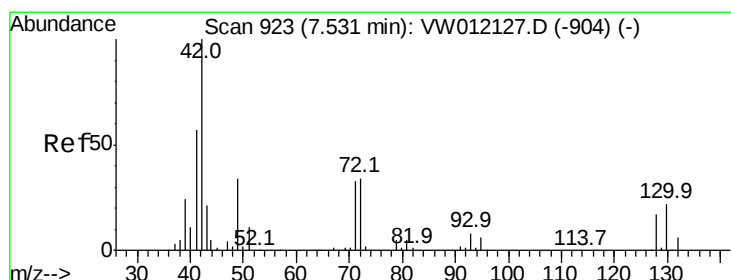
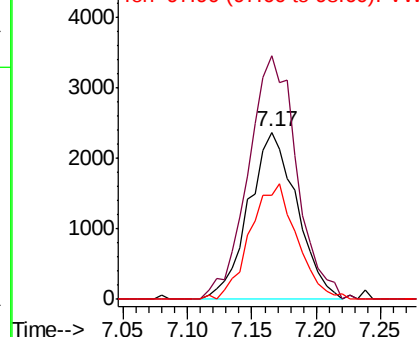
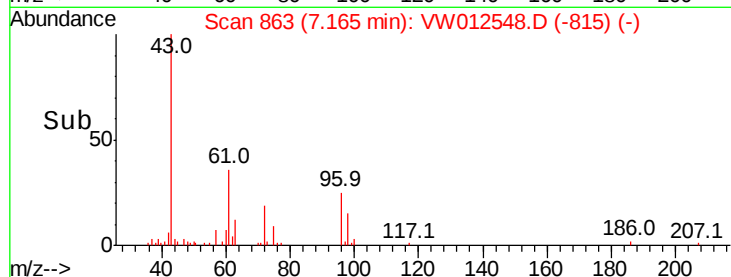
#27
 cis-1,2-Dichloroethene
 Concen: 2.518 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012548.D
 Acq: 03 Sep 2019 15:56

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.1	0.0	326.6
98	67.0	0.0	127.4

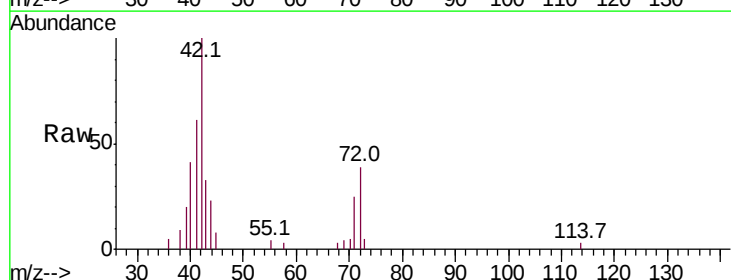


Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW

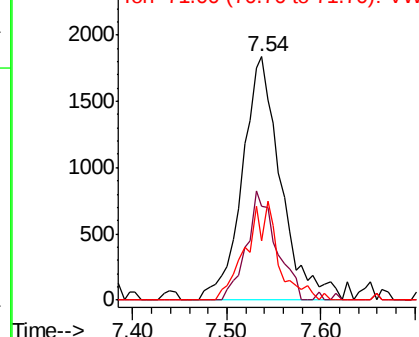
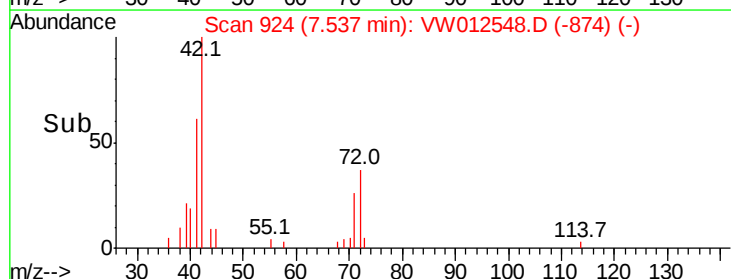


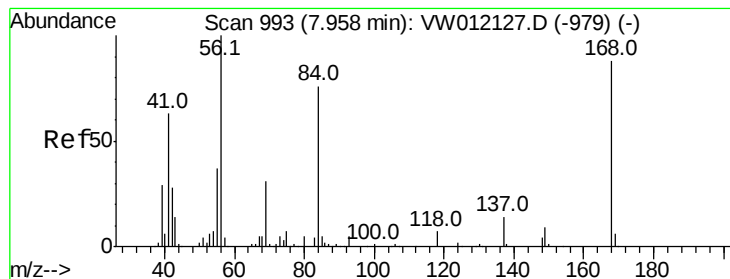
#29
 Tetrahydrofuran
 Concen: 9.988 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW012548.D
 Acq: 03 Sep 2019 15:56

Tgt Ion	Ratio	Lower	Upper
42	100		
72	34.5	27.3	40.9
71	34.1	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: 1.320 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Instrument :

MSVOA_W

ClientSampled :

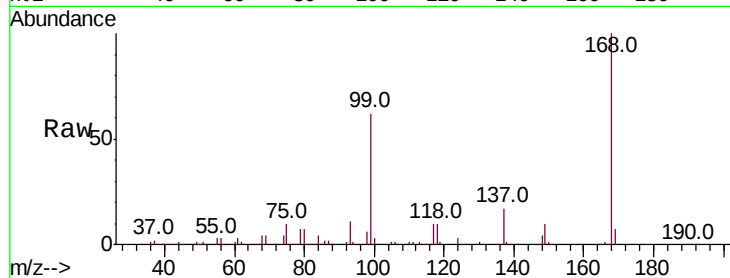
Tot Ion: 56 Resp: 5996

Ion Ratio Lower Upper

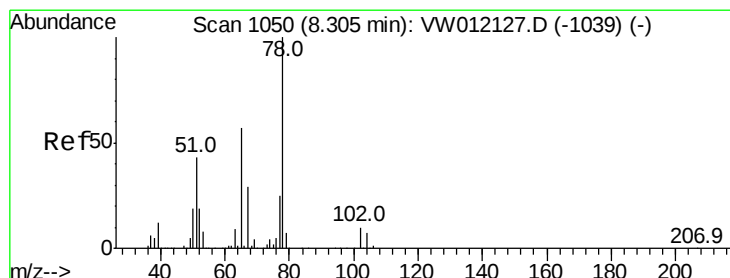
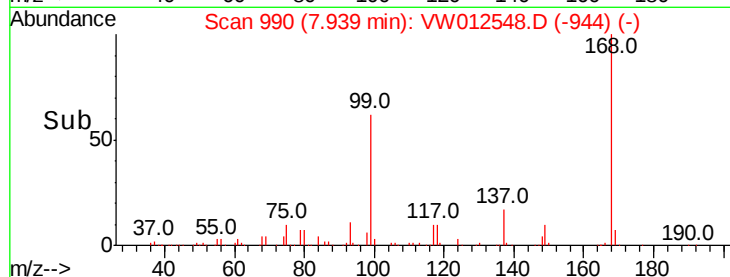
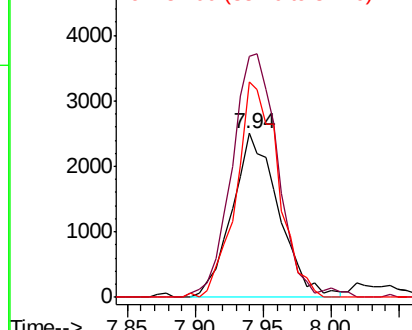
56 100

69 144.4 24.9 37.3#

84 131.9 60.6 90.8#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 52.891 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012548.D

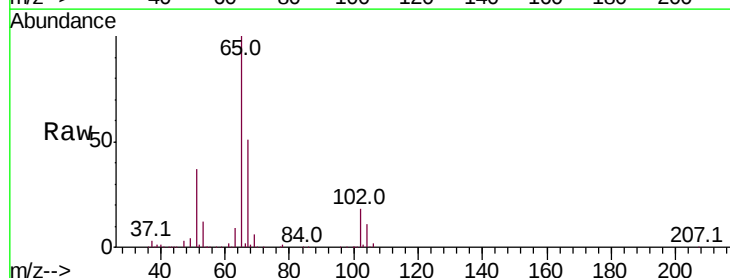
Acq: 03 Sep 2019 15:56

Tgt Ion: 65 Resp: 133406

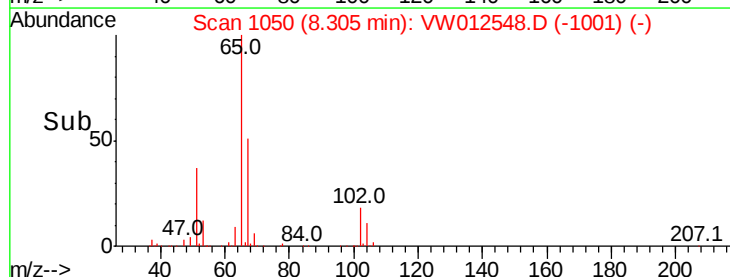
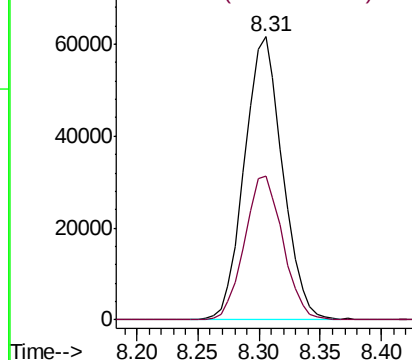
Ion Ratio Lower Upper

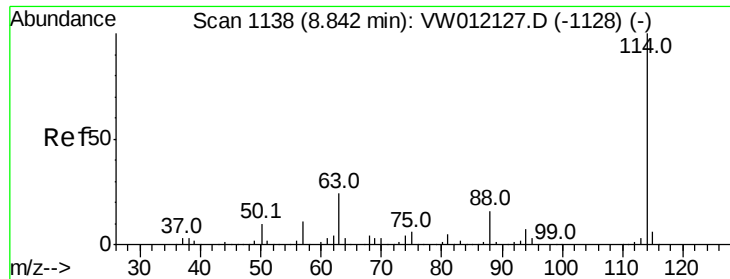
65 100

67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

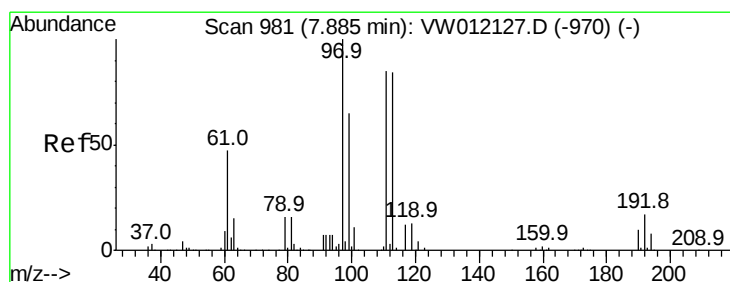
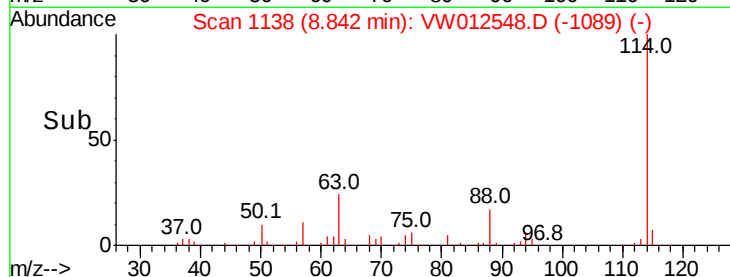
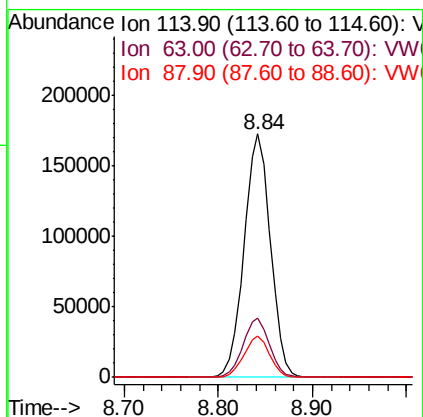
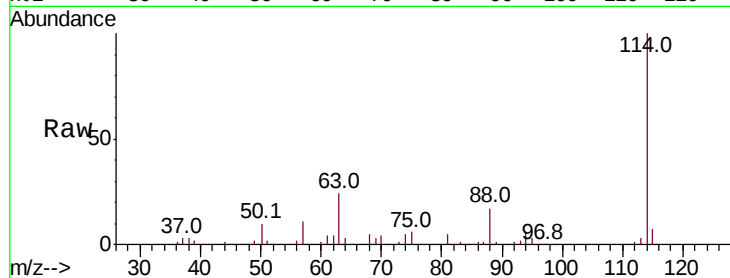




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012548.D
 Acq: 03 Sep 2019 15:56

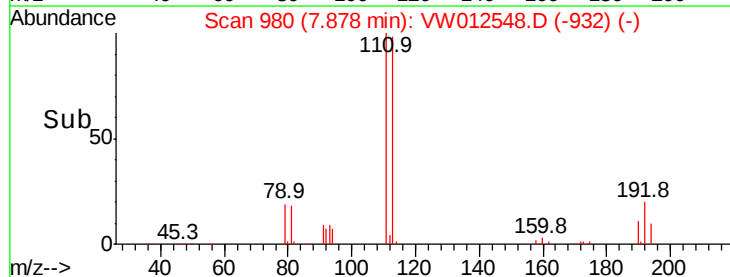
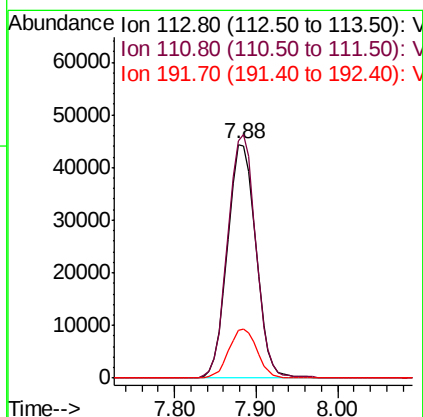
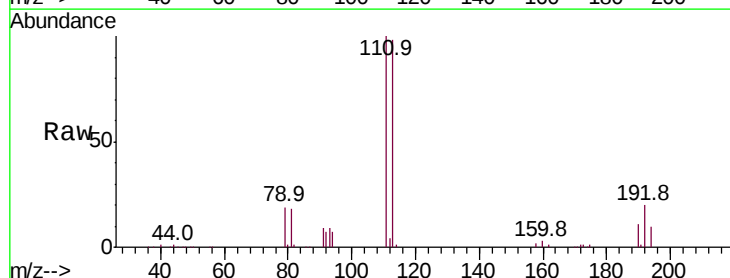
Instrument :
 MSVOA_W
 ClientSampleId :

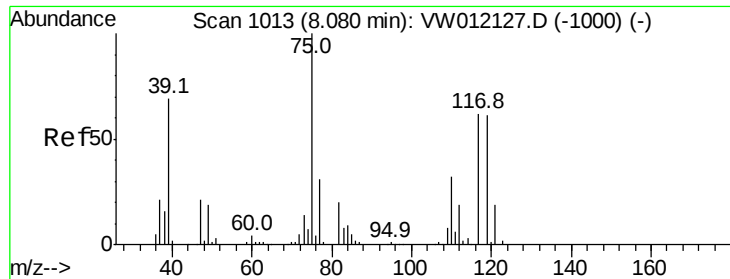
Tot Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	48.6
88	16.8	0.0	32.2



#35
 Dibromofluoromethane
 Concen: 53.521 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW012548.D
 Acq: 03 Sep 2019 15:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.7	124.1
192	20.6	16.2	24.2

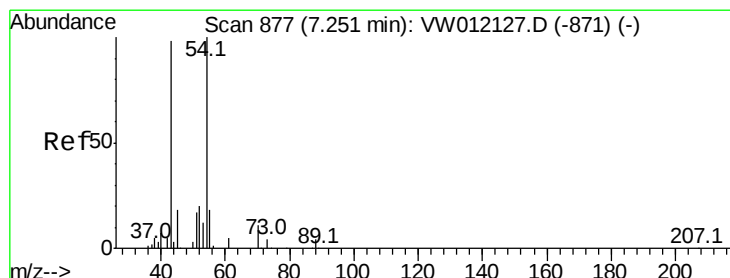
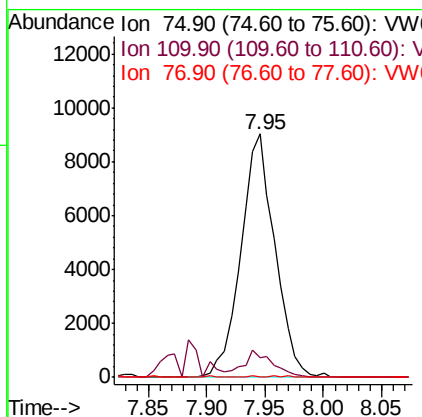
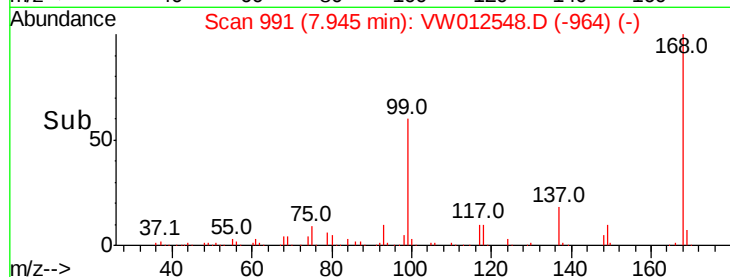
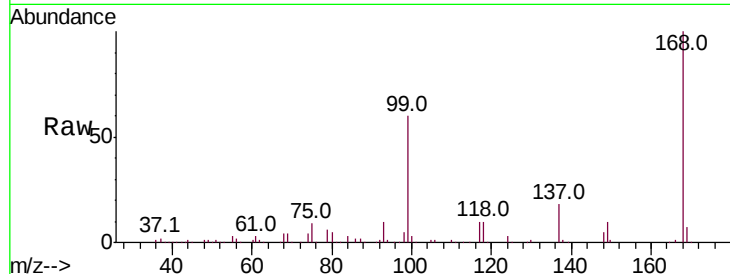




#36
 1,1-Dichloropropene
 Concen: 5.323 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012548.D
 Acq: 03 Sep 2019 15:56

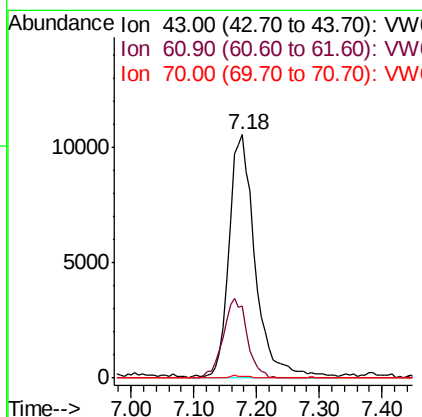
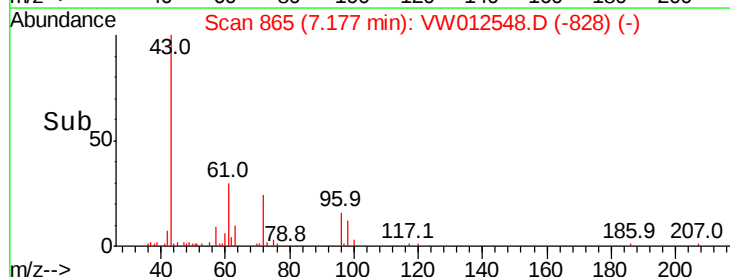
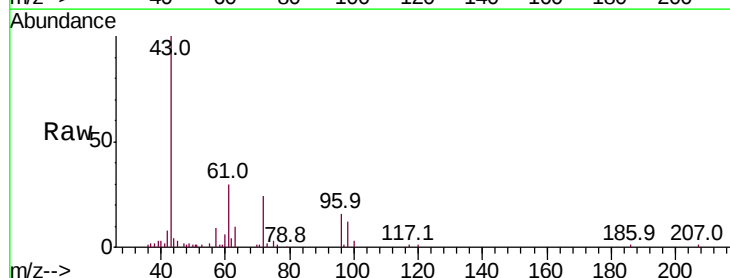
Instrument :
 MSVOA_W
 ClientSampleId :

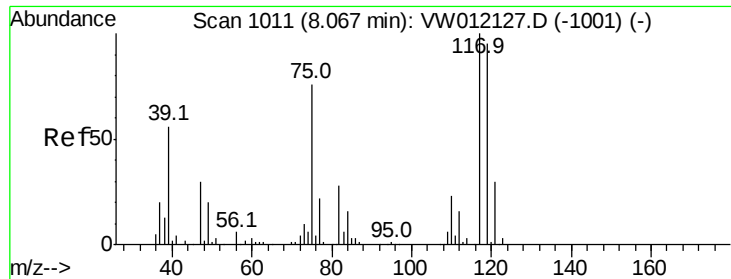
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	15.6	46.8#
77	0.1	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 16.184 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.07 min
 Lab File: VW012548.D
 Acq: 03 Sep 2019 15:56

Tgt Ion	Ratio	Lower	Upper
43	100		
61	29.4	9.2	13.8#
70	0.6	6.9	10.3#

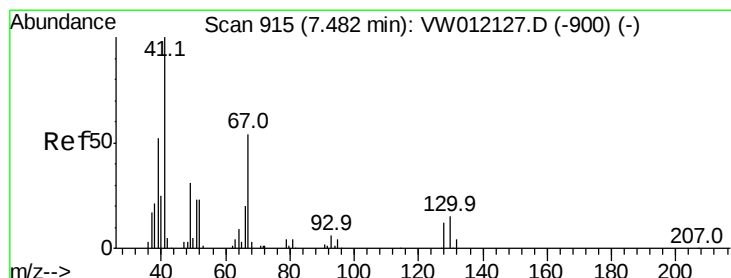
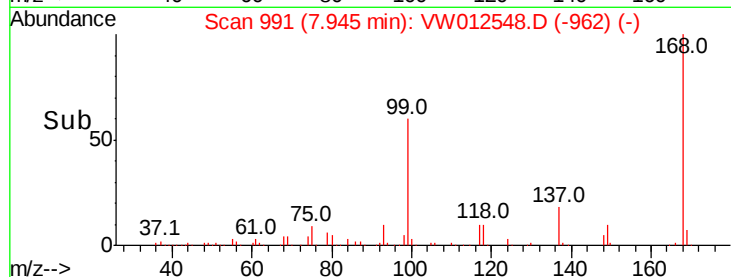
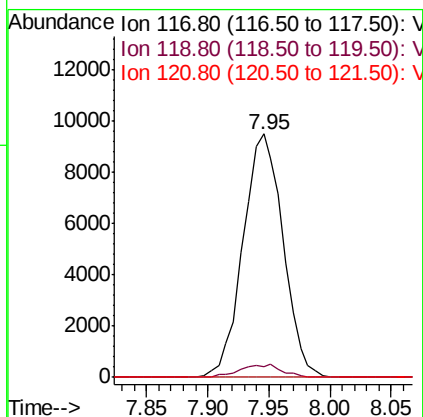
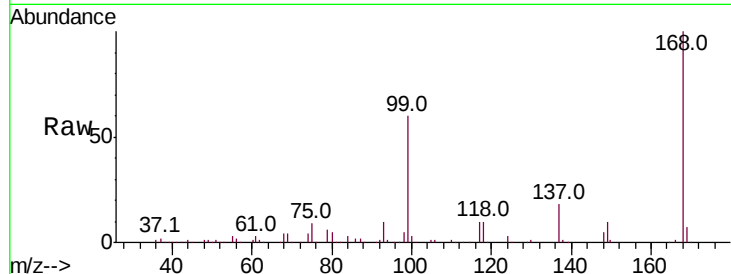




#38
Carbon Tetrachloride
Concen: 7.224 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

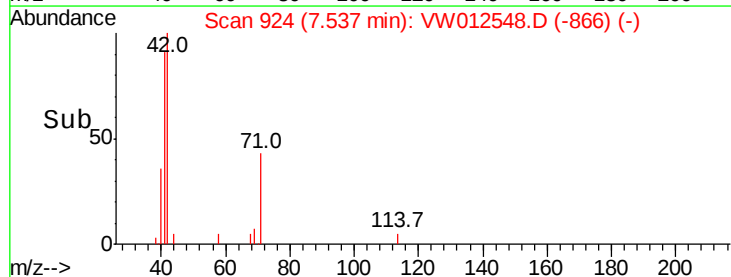
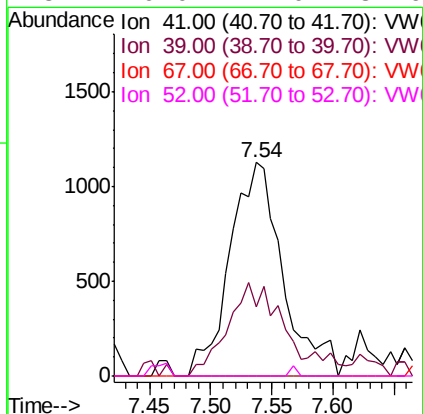
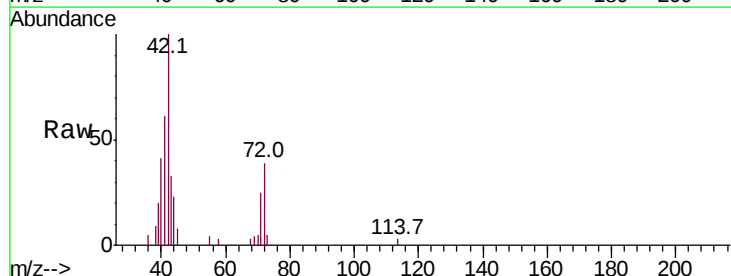
Instrument :
MSVOA_W
ClientSampled :

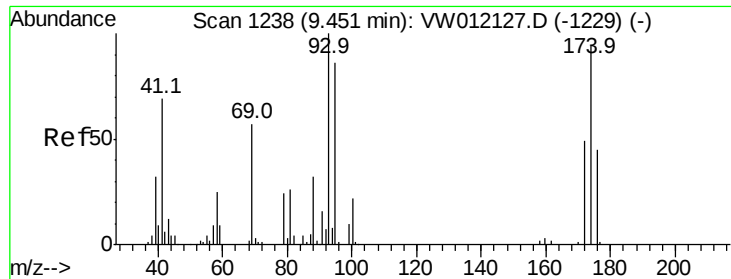
Tot Ion:117 Resp: 21630
Ion Ratio Lower Upper
117 100
119 4.2 76.2 114.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 3.038 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

Tgt Ion: 41 Resp: 3385
Ion Ratio Lower Upper
41 100
39 43.3 45.8 68.8#
67 0.0 46.2 69.4#
52 0.0 21.0 31.6#





#49

1,4-Dioxane

Concen: 1.097 ug/l

RT: 9.67 min Scan# 1274

Delta R.T. 0.22 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Instrument :
MSVOA_W
ClientSampleId :

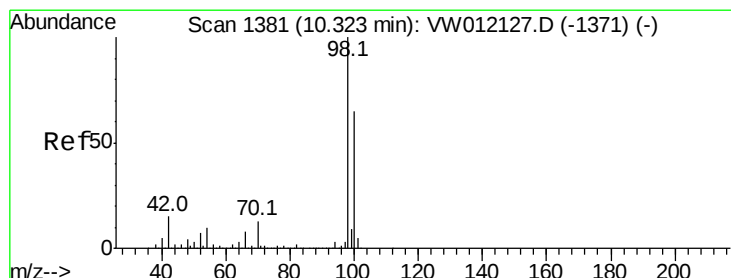
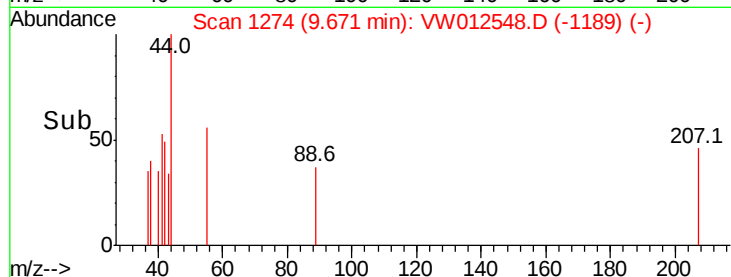
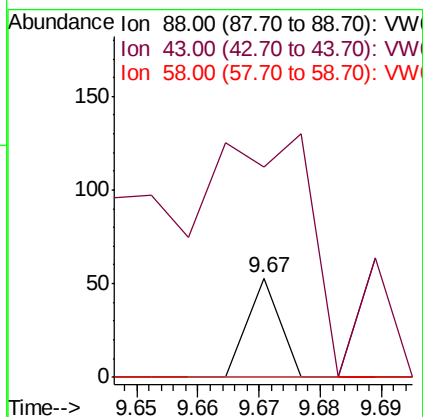
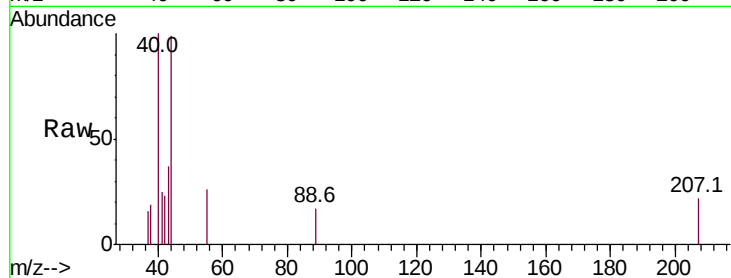
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 936.8 32.9 49.3#

58 0.0 71.0 106.4#



#50

Toluene-d8

Concen: 47.533 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012548.D

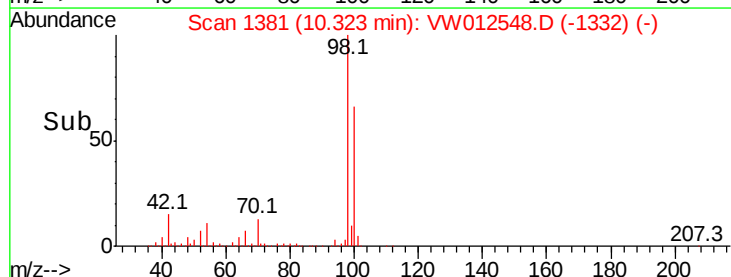
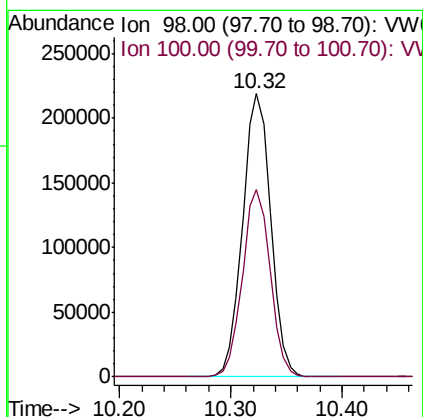
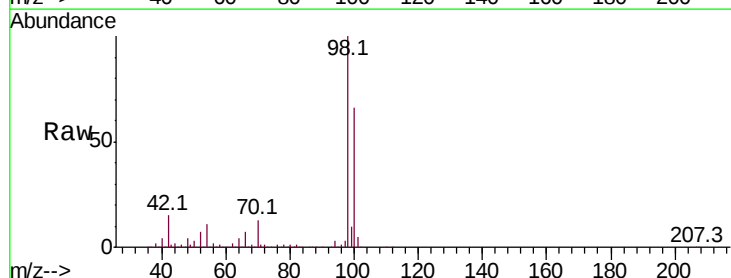
Acq: 03 Sep 2019 15:56

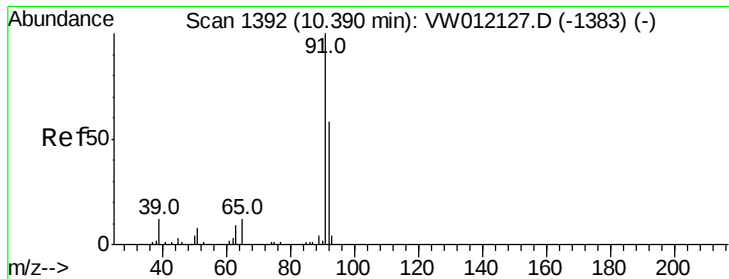
Tgt Ion: 98 Resp: 385137

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6





#52

Toluene

Concen: 2.322 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Instrument :

MSVOA_W

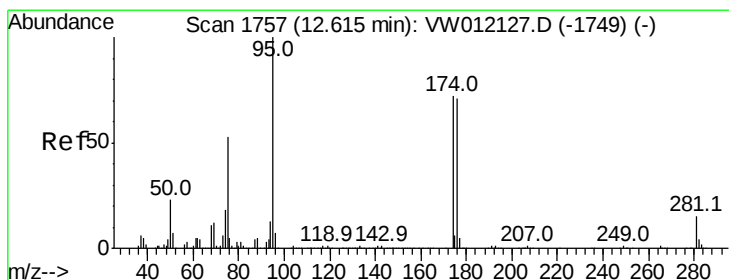
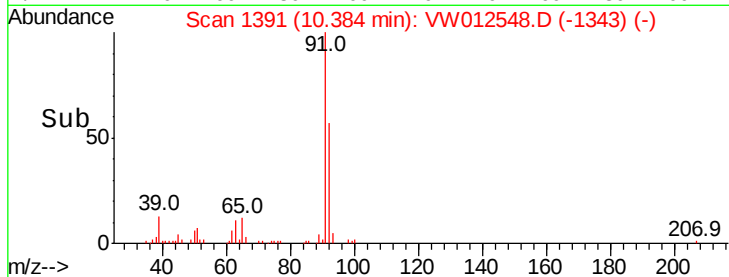
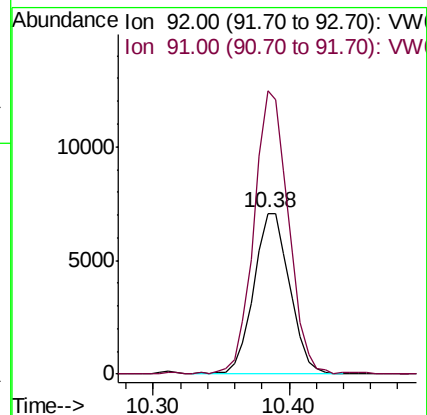
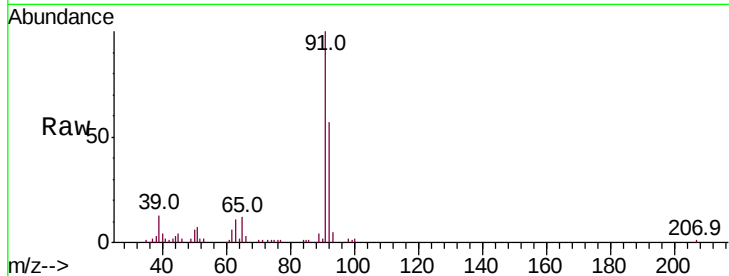
ClientSampleId :

Tot Ion: 92 Resp: 13176

Ion Ratio Lower Upper

92 100

91 168.1 136.6 204.8



#62

4-Bromofluorobenzene

Concen: 26.538 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

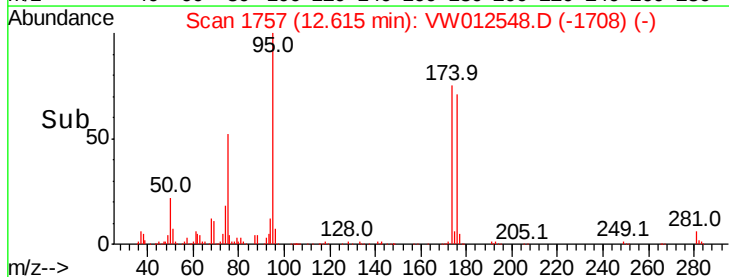
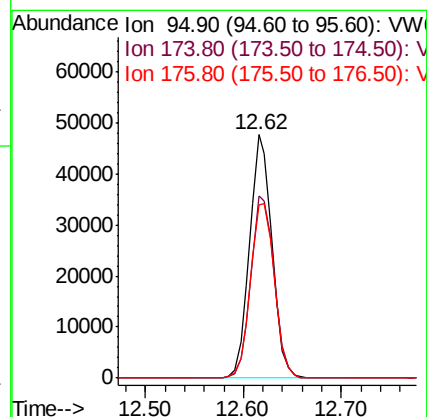
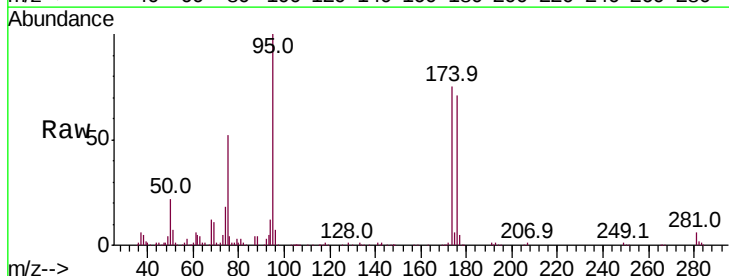
Tgt Ion: 95 Resp: 75797

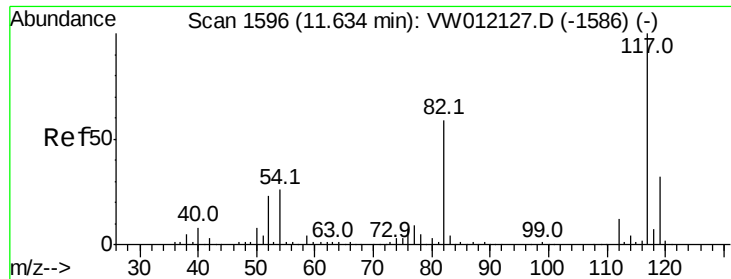
Ion Ratio Lower Upper

95 100

174 77.8 0.0 150.8

176 76.5 0.0 148.6

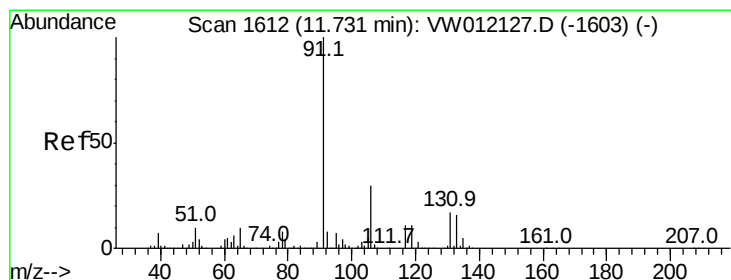
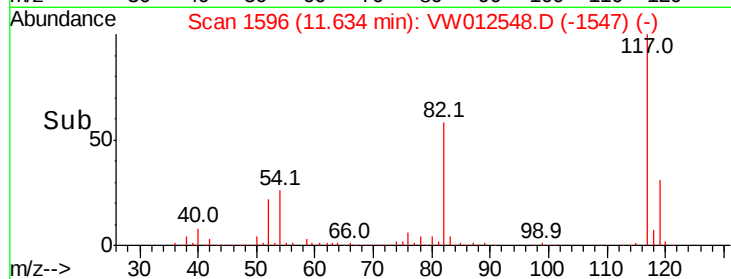
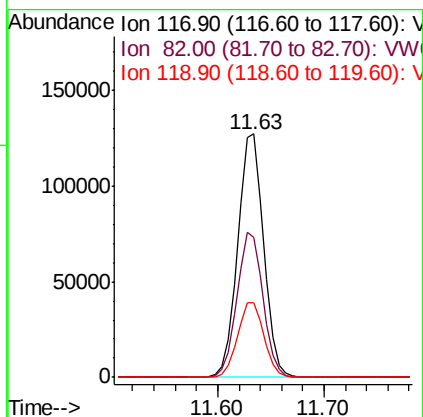
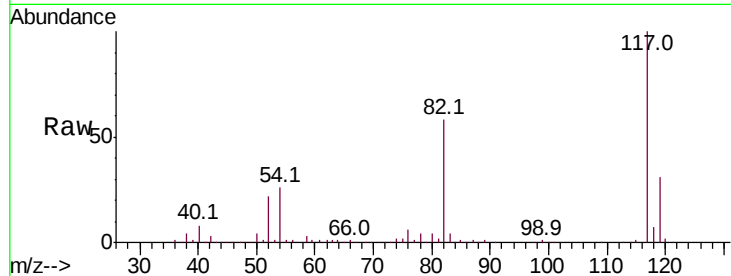




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

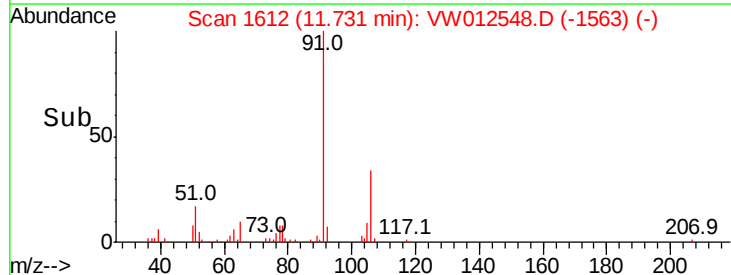
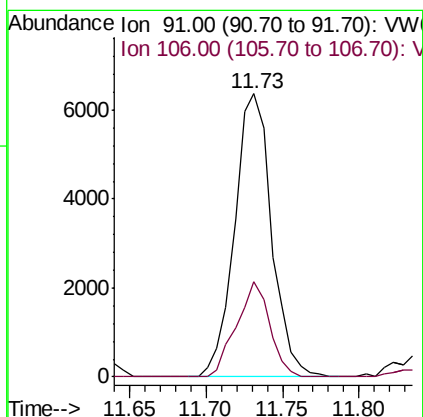
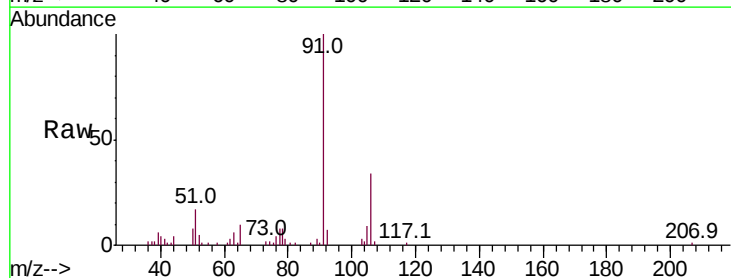
Instrument :
MSVOA_W
ClientSampleId :

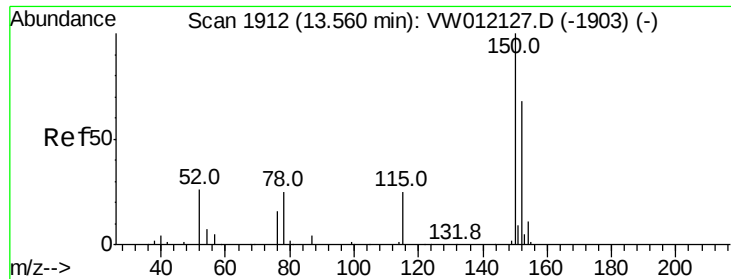
Tot Ion:117 Resp: 217577
Ion Ratio Lower Upper
117 100
82 57.7 47.4 71.2
119 30.8 25.4 38.2



#67
Ethyl Benzene
Concen: 1.291 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW012548.D
Acq: 03 Sep 2019 15:56

Tgt Ion: 91 Resp: 10658
Ion Ratio Lower Upper
91 100
106 33.7 24.3 36.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Instrument :

MSVOA_W

ClientSampleId :

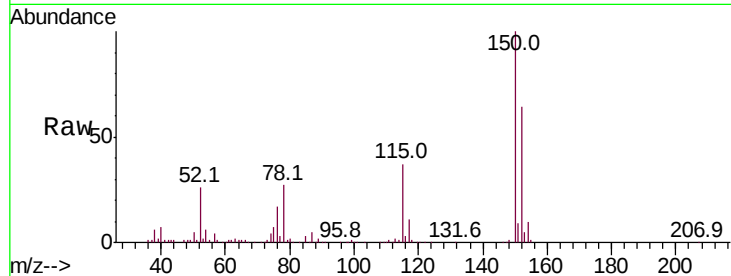
Tot Ion:152 Resp: 47180

Ion Ratio Lower Upper

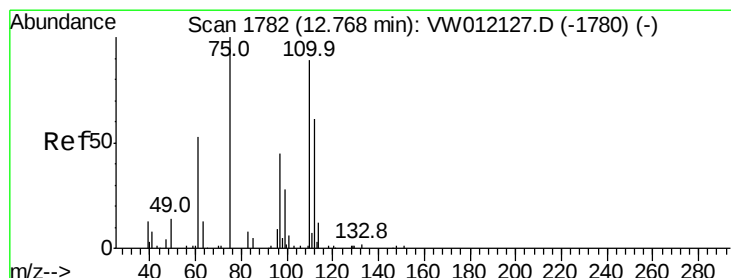
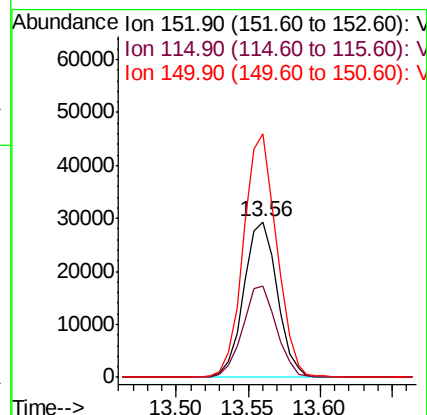
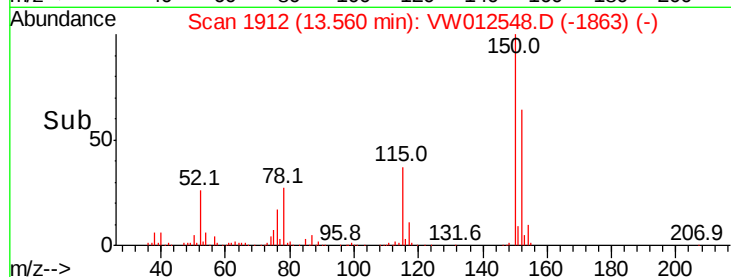
152 100

115 59.4 30.1 90.3

150 155.0 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: 88.866 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012548.D

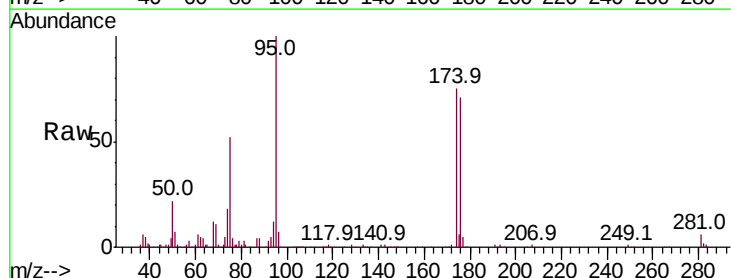
Acq: 03 Sep 2019 15:56

Tgt Ion: 75 Resp: 40834

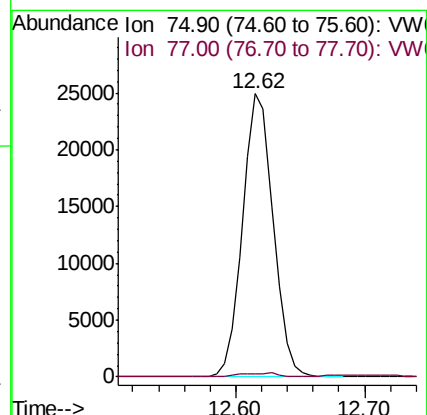
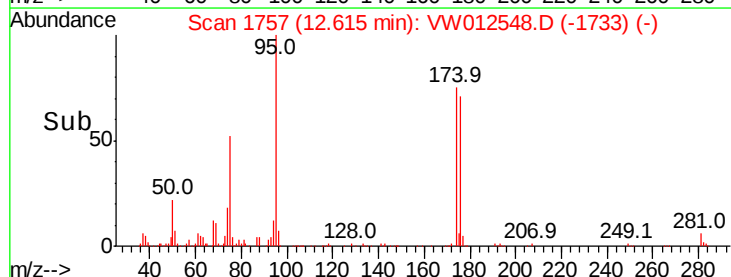
Ion Ratio Lower Upper

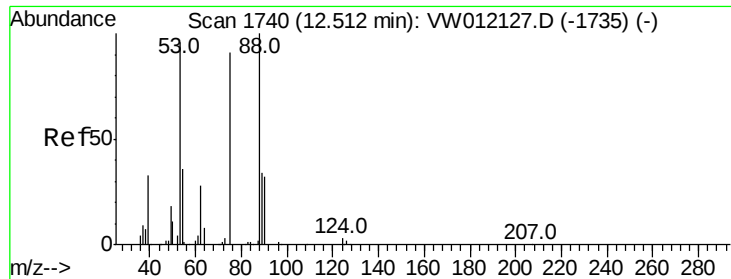
75 100

77 1.5 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: 194.842 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Instrument :

MSVOA_W

ClientSampleId :

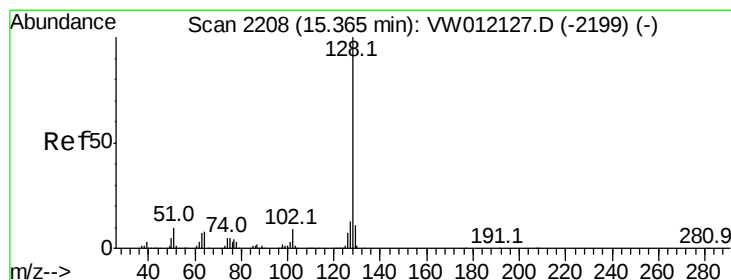
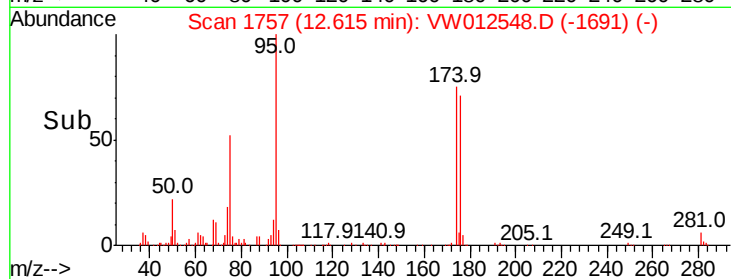
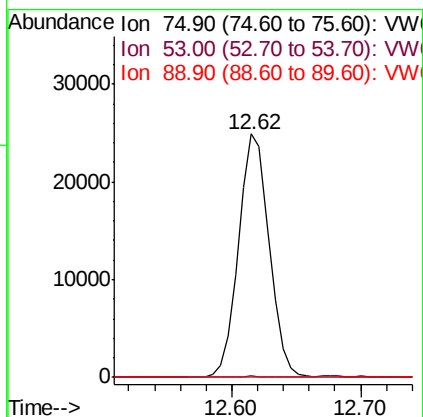
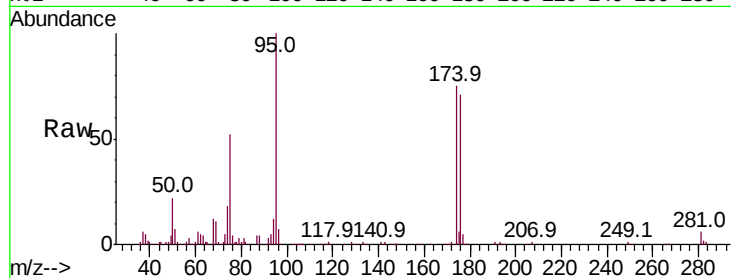
Tot Ion: 75 Resp: 40834

Ion Ratio Lower Upper

75 100

53 0.2 89.4 134.0#

89 0.1 34.5 51.7#



#95

Naphthalene

Concen: 4.437 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012548.D

Acq: 03 Sep 2019 15:56

Tgt Ion: 128 Resp: 225

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.7 13.1#

