

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041819\
 Data File : VW010055.D
 Acq On : 18 Apr 2019 19:46
 Operator : SY/VA
 Sample : K2436-04
 Misc : 6.96G/5ML/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-038-B

Quant Time: Apr 19 01:57:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 11:26:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	44320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	71843	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	59720	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	18947	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	36631	66.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	133.96%	
35) Dibromofluoromethane	7.88	113	24770	54.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.46%	
50) Toluene-d8	10.32	98	74049	43.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.52%	
62) 4-Bromofluorobenzene	12.62	95	20510	32.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	65.94%	

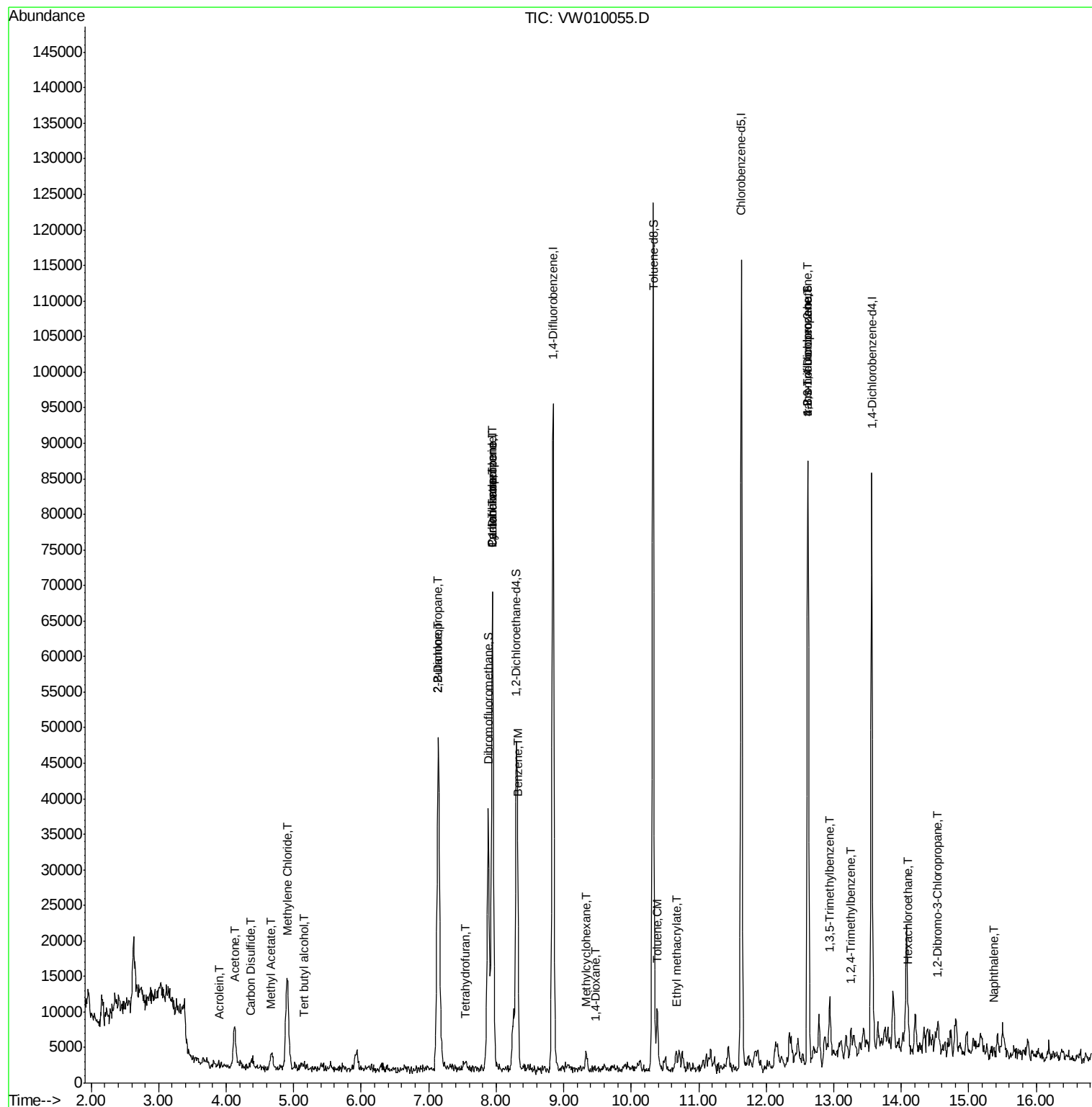
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.16	59	342	10.978	ug/l #	71
13) Acrolein	3.90	56	149	4.546	ug/l #	40
16) Acetone	4.12	43	11185	88.140	ug/l #	88
17) Carbon Disulfide	4.37	76	1811	2.675	ug/l	95
18) Methyl Acetate	4.66	43	4352	14.818	ug/l	94
20) Methylene Chloride	4.91	84	8419	13.960	ug/l	95
25) 2-Butanone	7.15	43	3140	18.837	ug/l #	78
26) 2,2-Dichloropropane	7.14	77	3219	6.160	ug/l #	54
29) Tetrahydrofuran	7.54	42	882	8.350	ug/l #	58
31) Cyclohexane	7.94	56	1633	1.846	ug/l #	16
36) 1,1-Dichloropropene	7.94	75	4740	6.459	ug/l #	52
38) Carbon Tetrachloride	7.95	117	5479	7.650	ug/l #	17
39) Methylcyclohexane	9.34	83	602	1.855	ug/l #	77
40) Benzene	8.32	78	2183	1.088	ug/l	91
49) 1,4-Dioxane	9.46	88	31	7.422	ug/l #	1
52) Toluene	10.38	92	3616	2.893	ug/l	93
56) Ethyl methacrylate	10.66	69	235	3.062	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	11615	61.251	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	1969	1.761	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.62	75	11615	144.426	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.26	105	1812	1.598	ug/l	95
90) Hexachloroethane	14.11	117	391	1.674	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.53	75	49	1.051	ug/l #	7
95) Naphthalene	15.37	128	892	3.813	ug/l #	69

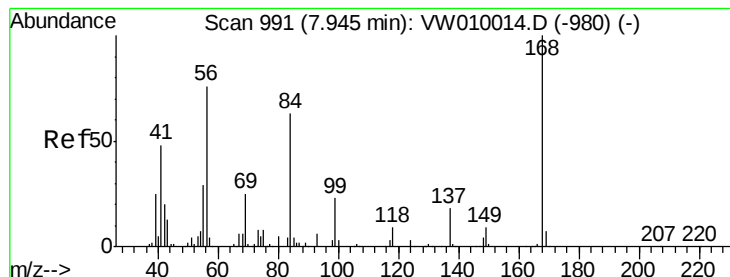
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Apr 18 11:26:35 2019
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: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

MSVOA_W

ClientSampleId :

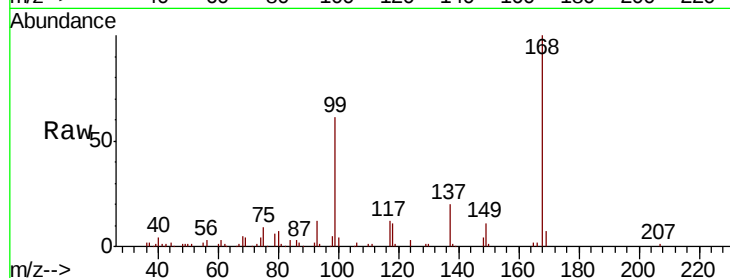
FK-GF-02-038-B

Tgt Ion:168 Resp: 44320

Ion Ratio Lower Upper

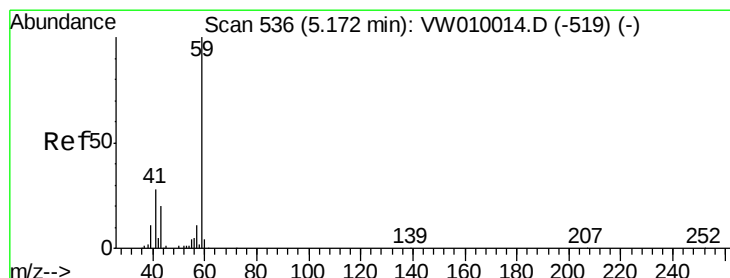
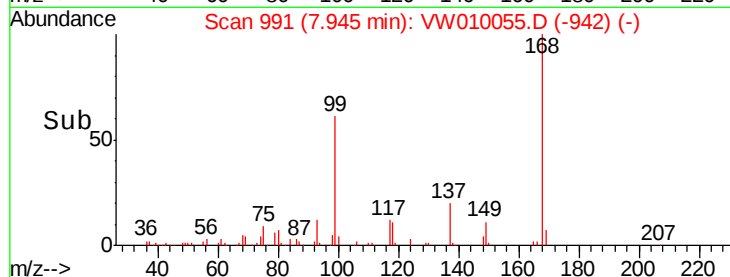
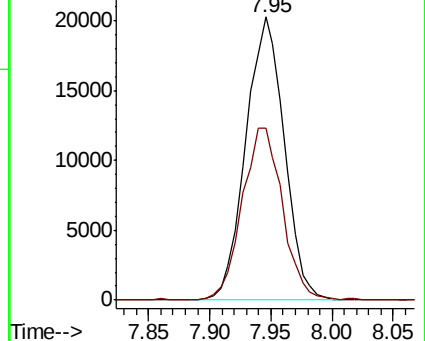
168 100

99 60.9 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 10.978 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW010055.D

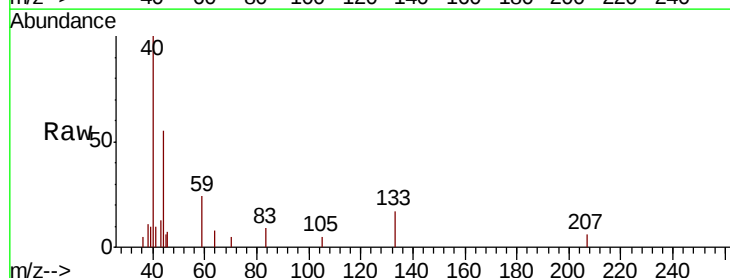
Acq: 18 Apr 2019 19:46

Tgt Ion: 59 Resp: 342

Ion Ratio Lower Upper

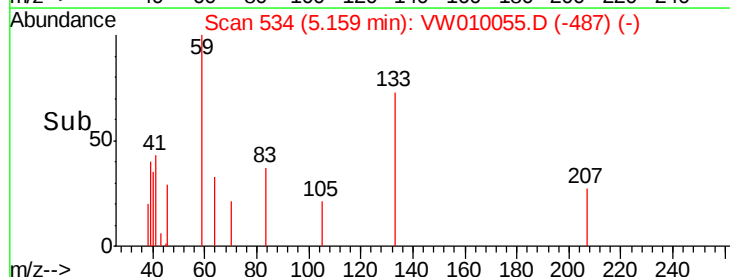
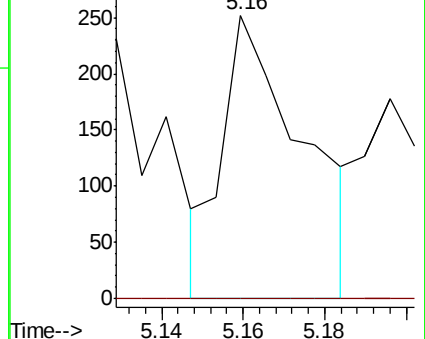
59 100

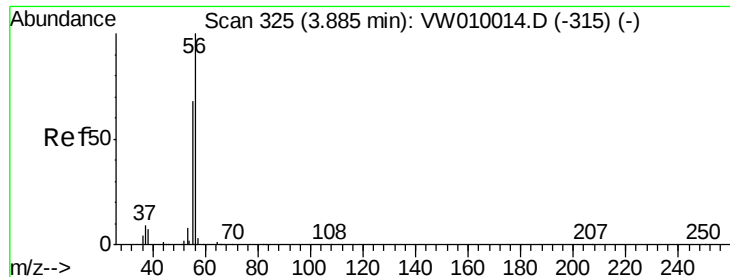
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 4.546 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

MSVOA_W

ClientSampleId :

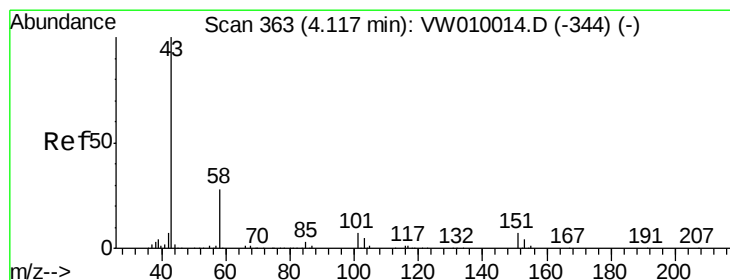
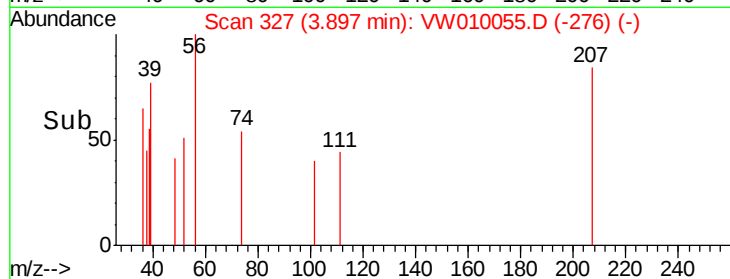
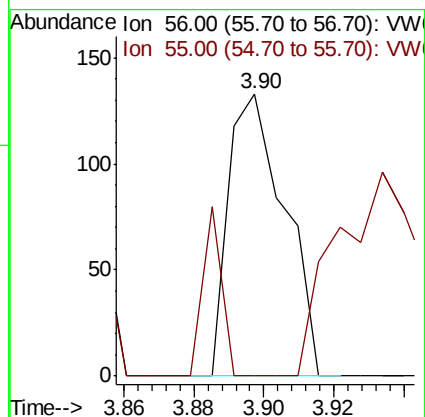
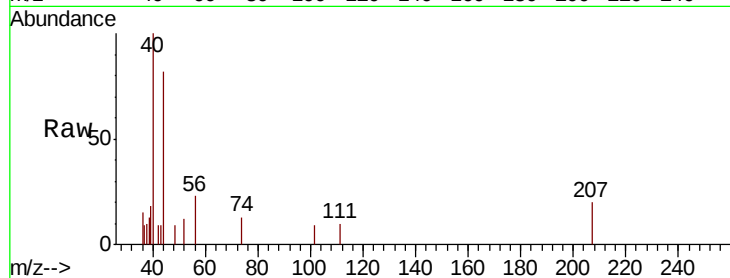
FK-GF-02-038-B

Tgt Ion: 56 Resp: 149

Ion Ratio Lower Upper

56 100

55 19.5 54.2 81.2#



#16

Acetone

Concen: 88.140 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW010055.D

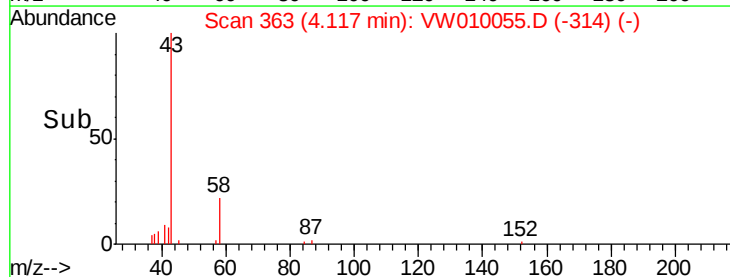
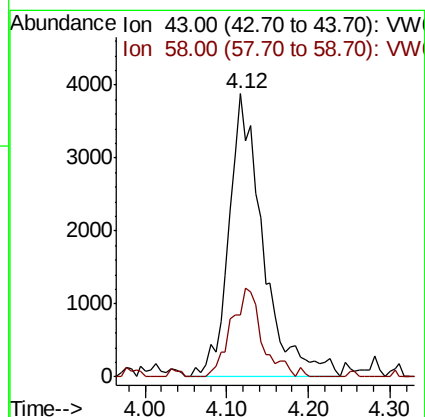
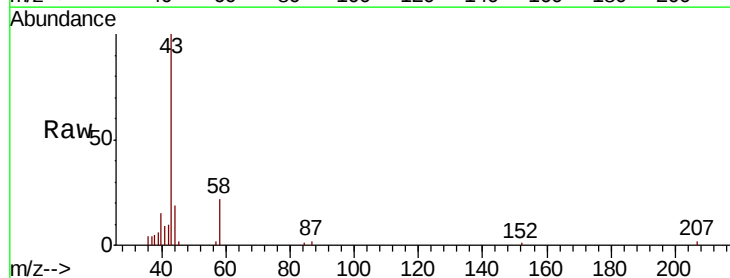
Acq: 18 Apr 2019 19:46

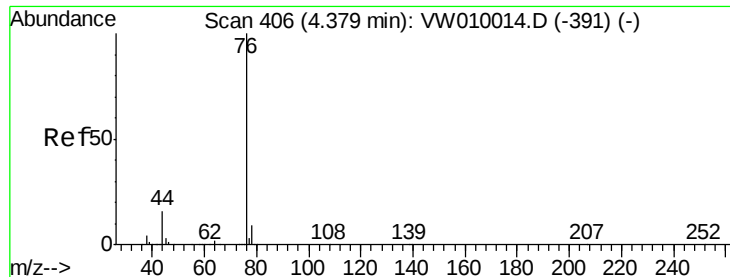
Tgt Ion: 43 Resp: 11185

Ion Ratio Lower Upper

43 100

58 21.9 22.7 34.1#

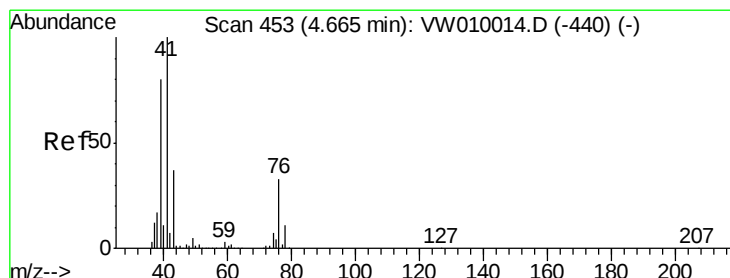
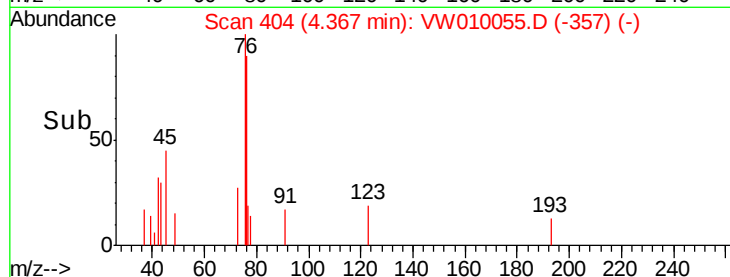
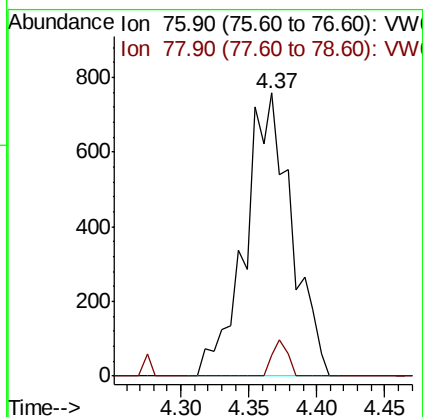
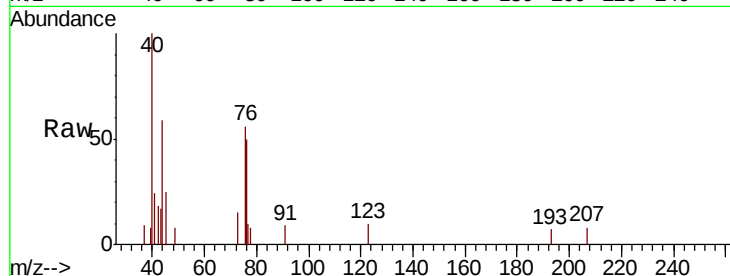




#17
Carbon Disulfide
Concen: 2.675 ug/l
RT: 4.37 min Scan# 404
Delta R.T. -0.01 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

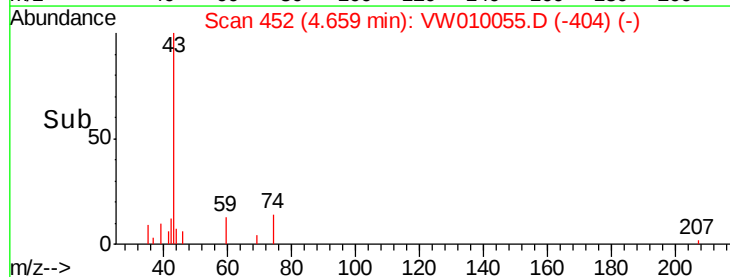
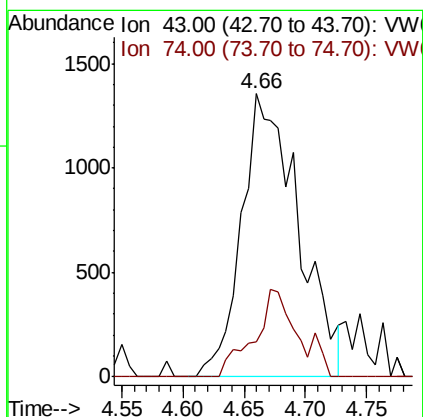
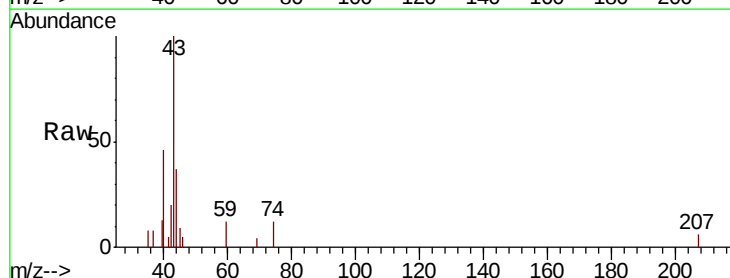
Instrument :
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FK-GF-02-038-B

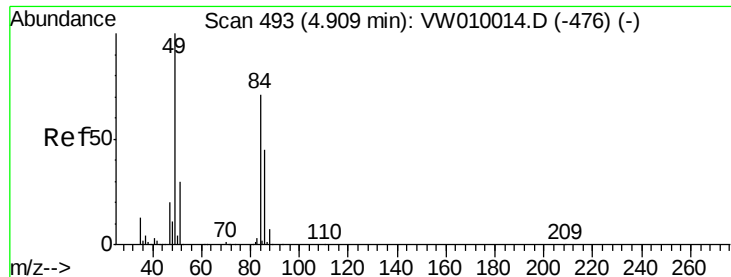
Tgt Ion: 76 Resp: 1811
Ion Ratio Lower Upper
76 100
78 7.5 7.4 11.2



#18
Methyl Acetate
Concen: 14.818 ug/l
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

Tgt Ion: 43 Resp: 4352
Ion Ratio Lower Upper
43 100
74 23.9 16.8 25.2

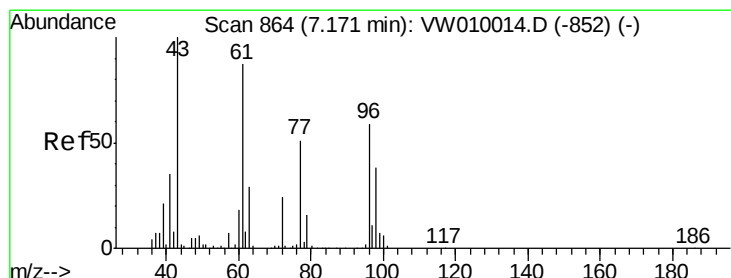
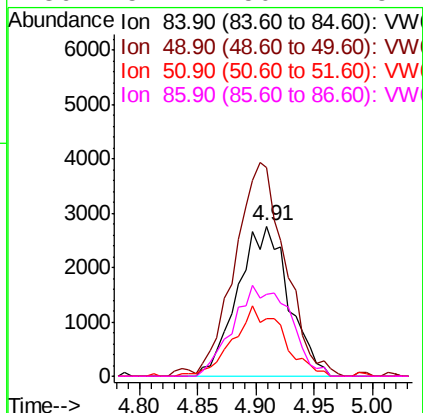
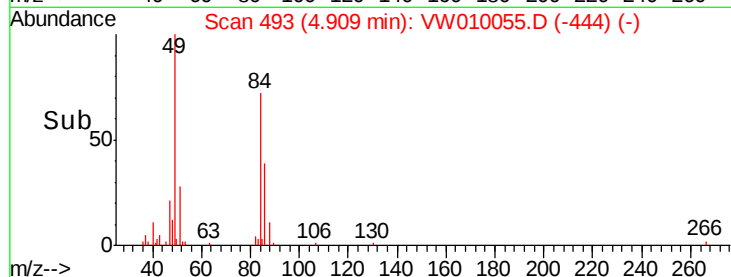
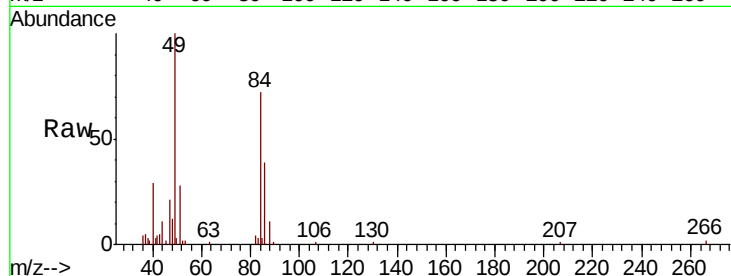




#20
Methylene Chloride
Concen: 13.960 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

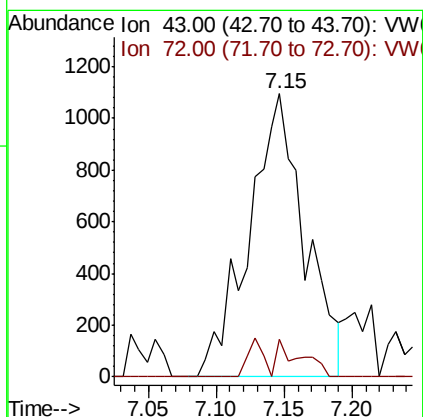
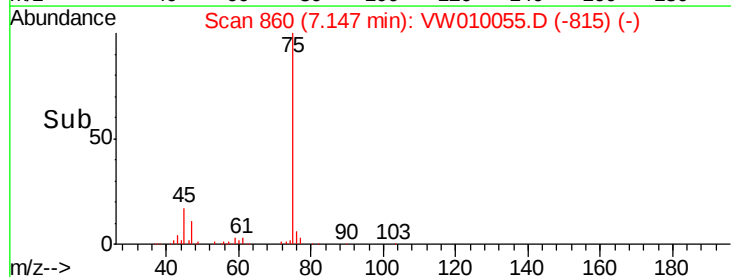
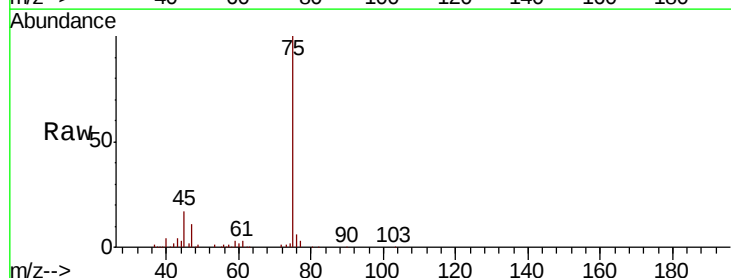
Instrument :
MSVOA_W
ClientSampleId :
FK-GF-02-038-B

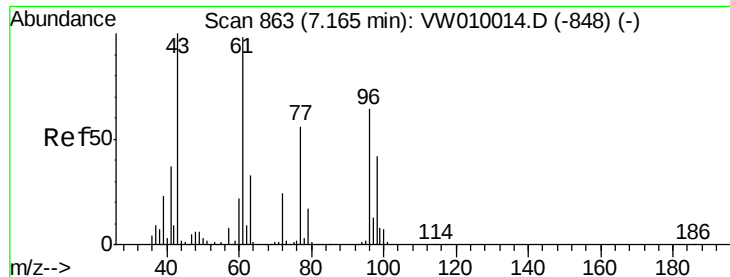
Tgt Ion: 84 Resp: 8419
Ion Ratio Lower Upper
84 100
49 137.3 112.3 168.5
51 38.3 33.9 50.9
86 54.2 50.2 75.4



#25
2-Butanone
Concen: 18.837 ug/l
RT: 7.15 min Scan# 860
Delta R.T. -0.02 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

Tgt Ion: 43 Resp: 3140
Ion Ratio Lower Upper
43 100
72 13.1 19.1 28.7#

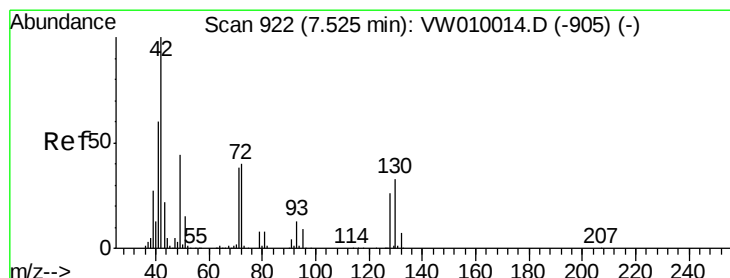
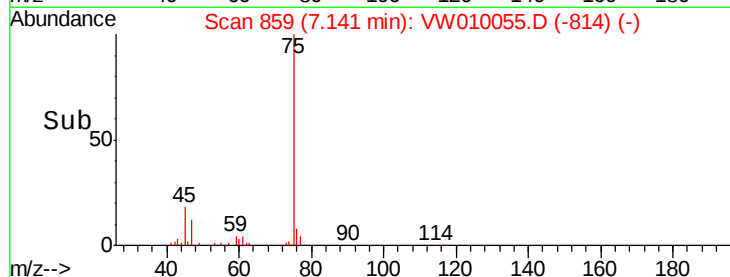
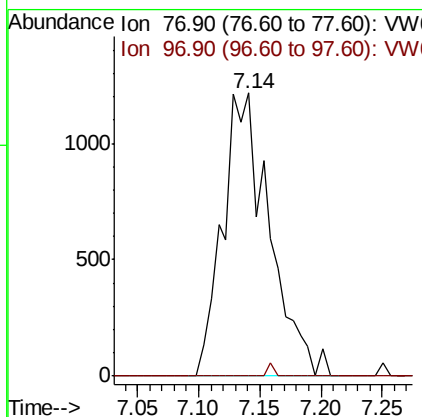
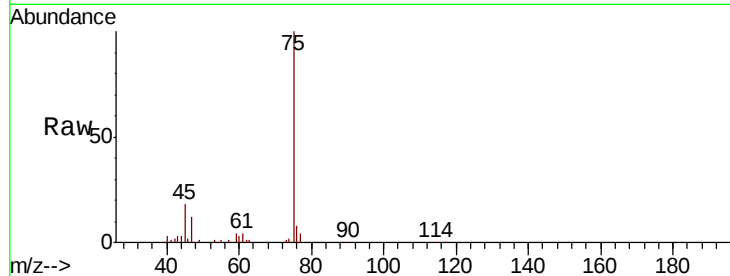




#26
 2,2-Dichloropropane
 Concen: 6.160 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

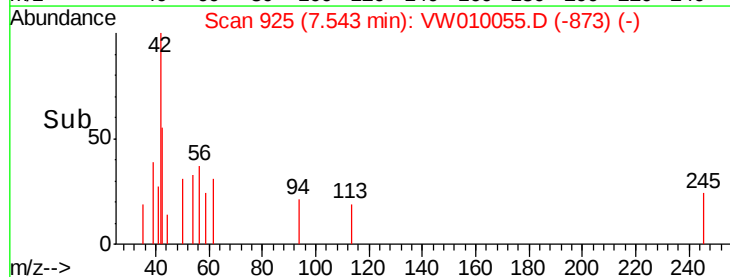
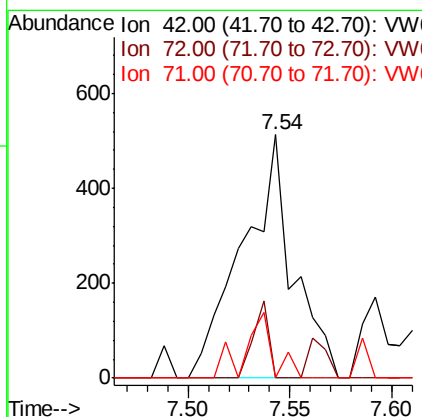
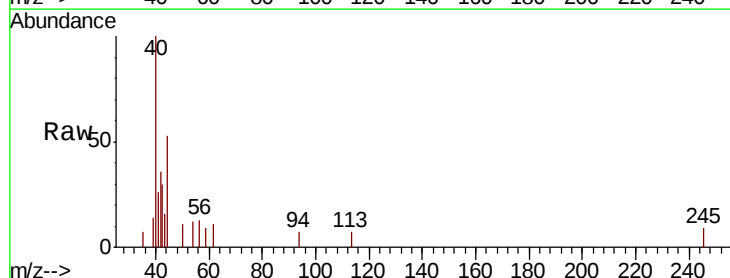
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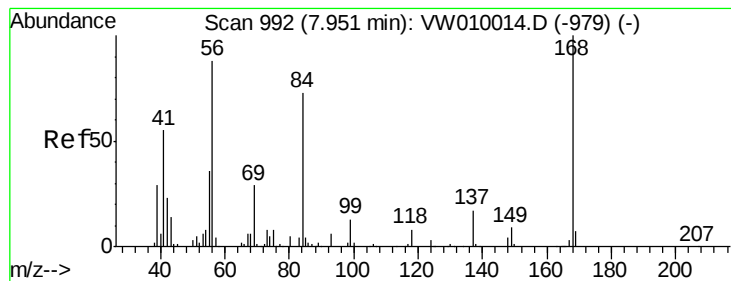
Tgt Ion: 77 Resp: 3219
 Ion Ratio Lower Upper
 77 100
 97 0.6 11.3 33.9#



#29
 Tetrahydrofuran
 Concen: 8.350 ug/l
 RT: 7.54 min Scan# 925
 Delta R.T. 0.02 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

Tgt Ion: 42 Resp: 882
 Ion Ratio Lower Upper
 42 100
 72 9.9 31.0 46.6#
 71 15.0 29.7 44.5#





#31

Cyclohexane

Concen: 1.846 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-038-B

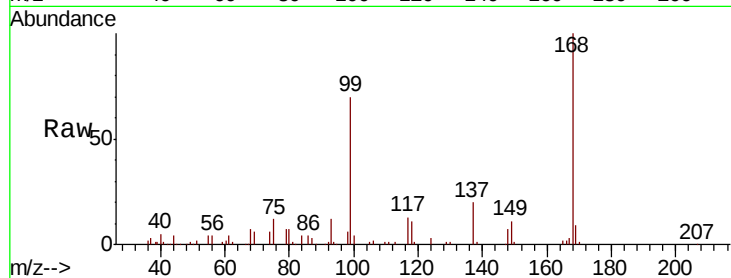
Tgt Ion: 56 Resp: 1633

Ion Ratio Lower Upper

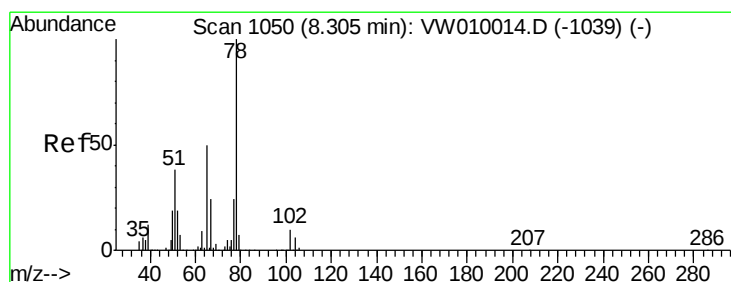
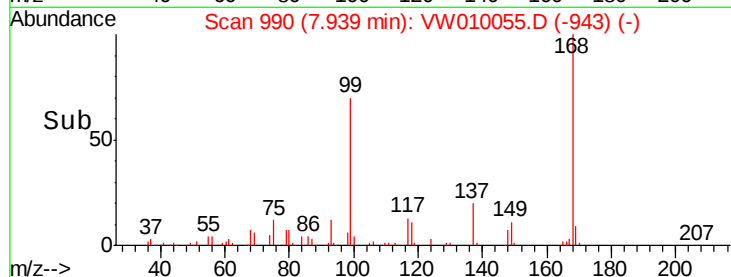
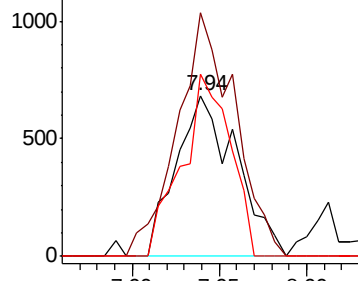
56 100

69 151.3 26.6 40.0#

84 113.2 66.2 99.2#



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: 66.975 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW010055.D

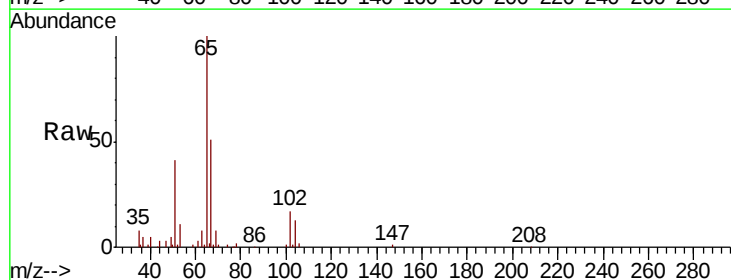
Acq: 18 Apr 2019 19:46

Tgt Ion: 65 Resp: 36631

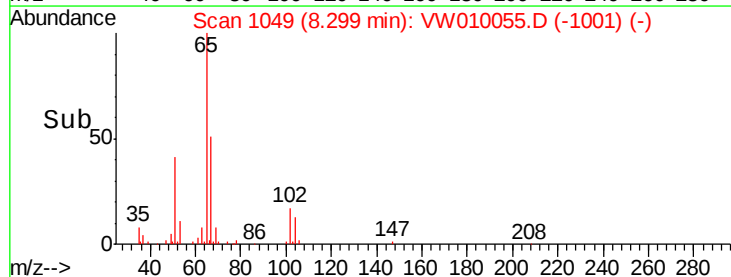
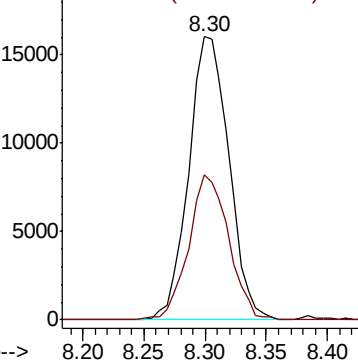
Ion Ratio Lower Upper

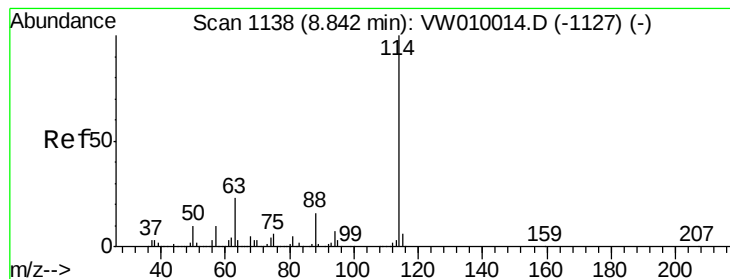
65 100

67 51.2 0.0 100.8



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: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

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ClientSampleId :

FK-GF-02-038-B

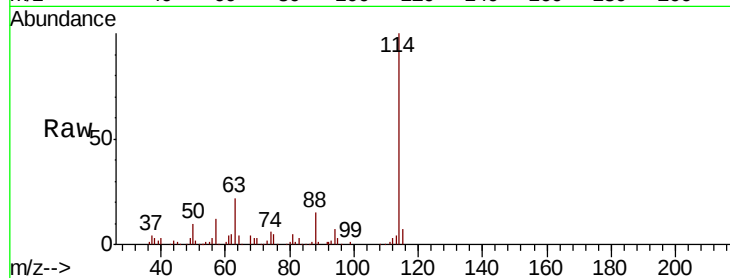
Tgt Ion:114 Resp: 71843

Ion Ratio Lower Upper

114 100

63 22.4 0.0 46.2

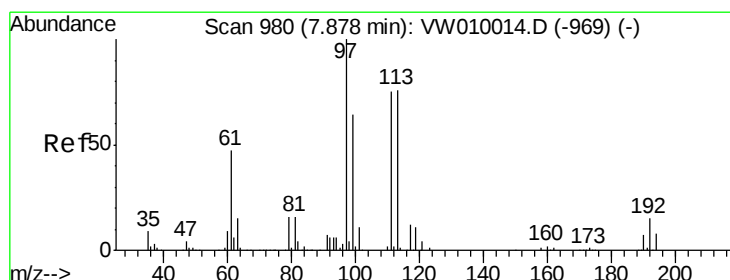
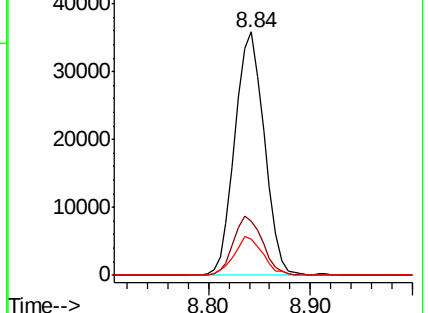
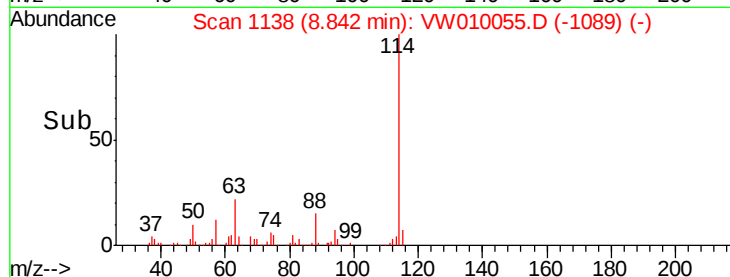
88 14.9 0.0 32.6



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: 54.231 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

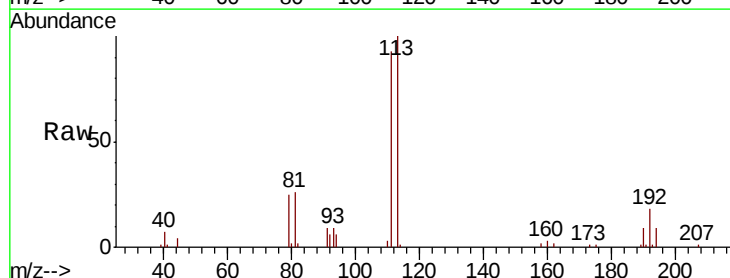
Tgt Ion:113 Resp: 24770

Ion Ratio Lower Upper

113 100

111 103.1 82.6 123.8

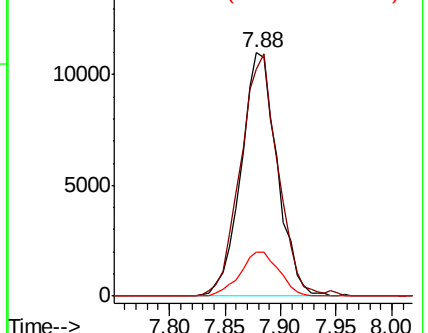
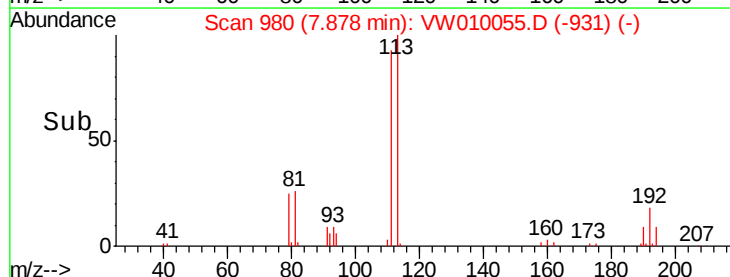
192 19.4 15.4 23.2

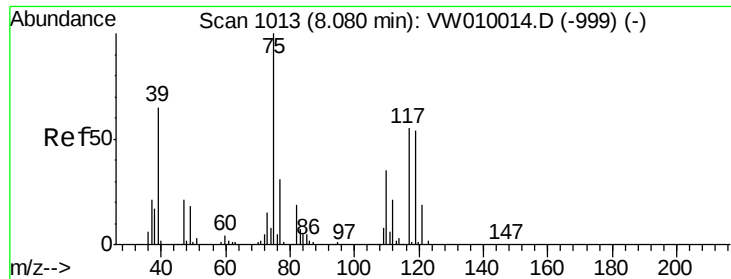


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

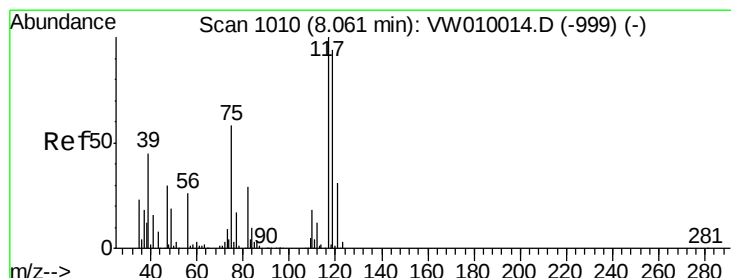
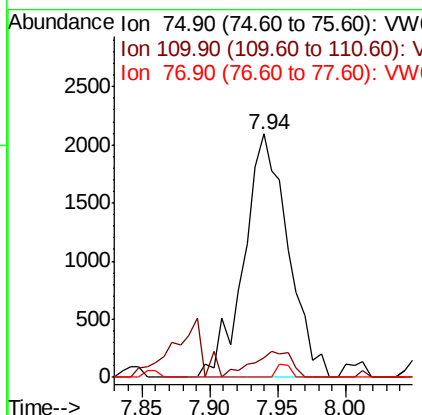
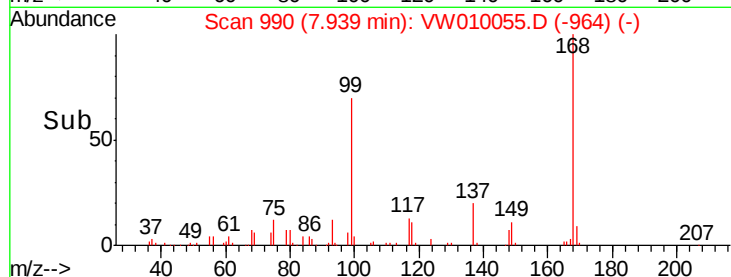
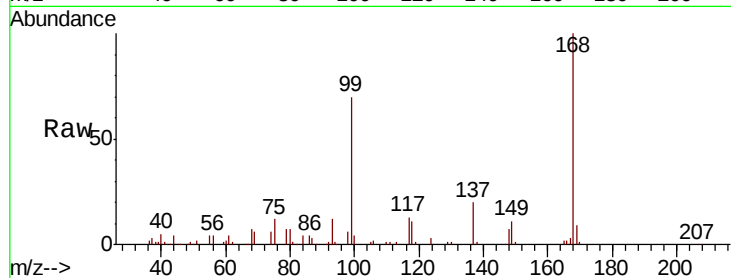




#36
 1,1-Dichloropropene
 Concen: 6.459 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

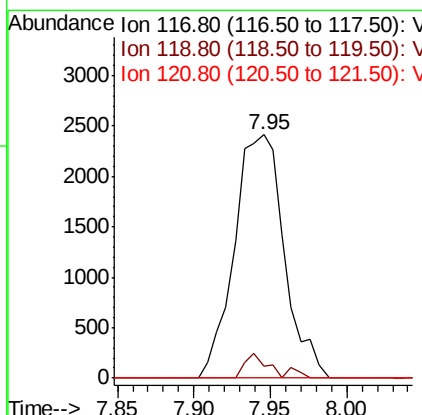
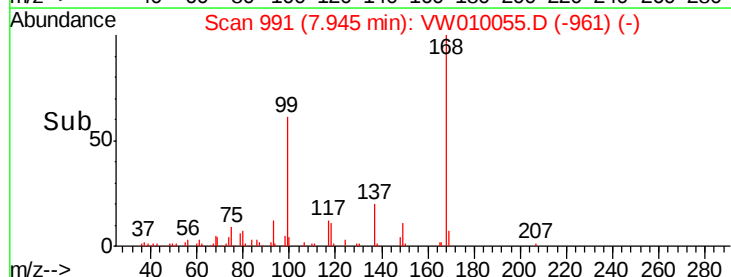
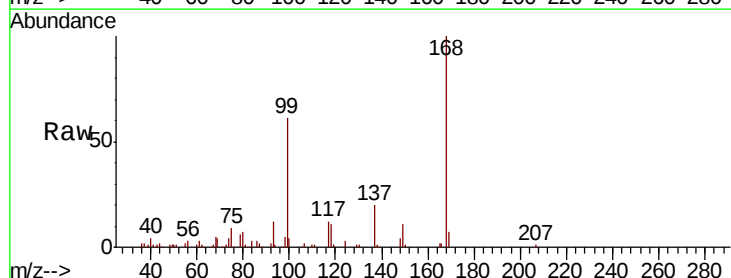
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-038-B

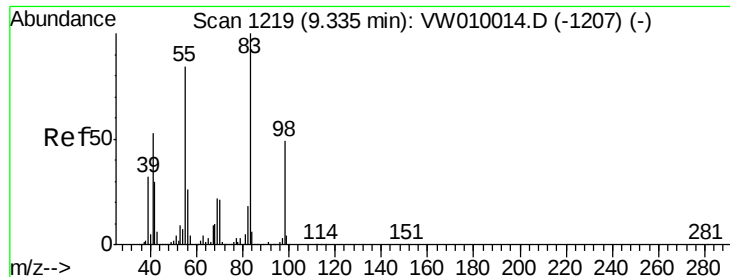
Tgt Ion: 75 Resp: 4740
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.6 49.8#
 77 1.7 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.650 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

Tgt Ion: 117 Resp: 5479
 Ion Ratio Lower Upper
 117 100
 119 4.8 75.3 112.9#
 121 0.0 24.4 36.6#

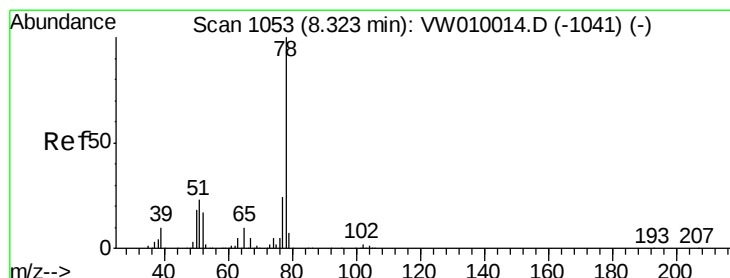
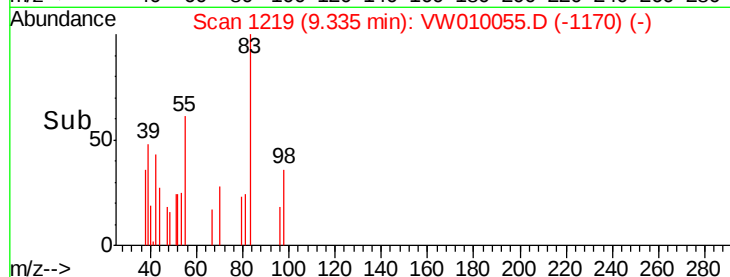
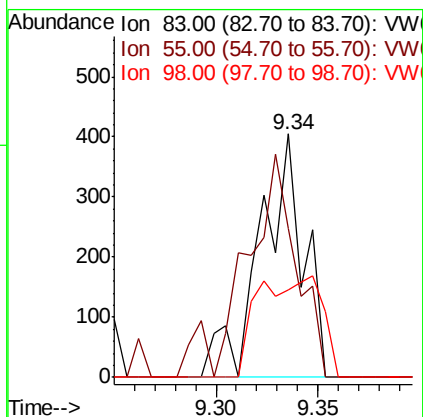
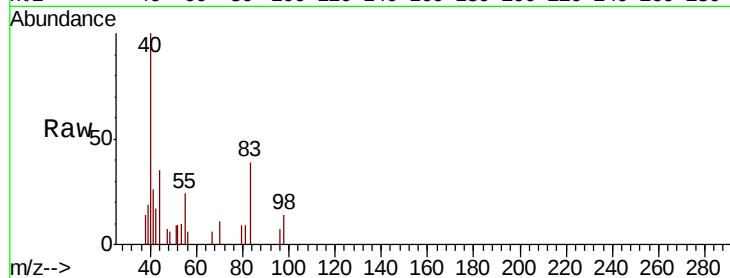




#39
Methylcyclohexane
Concen: 1.855 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

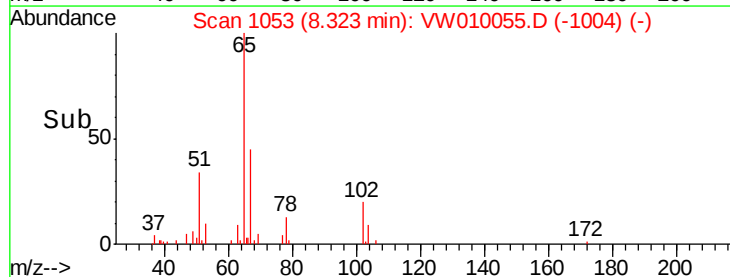
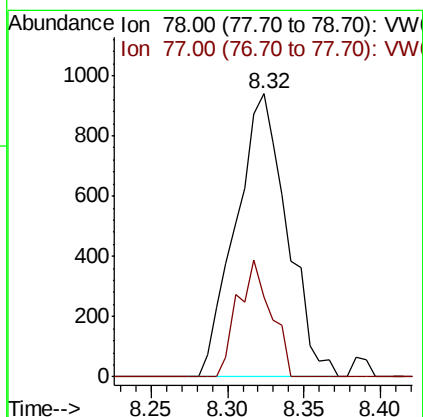
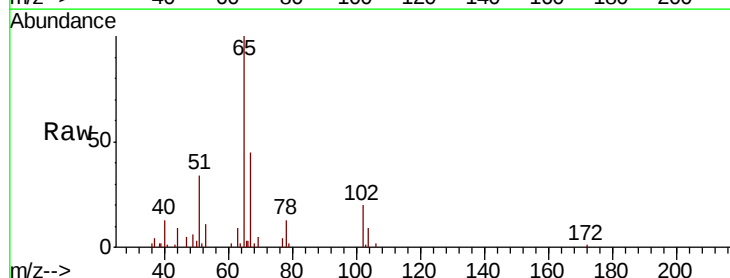
Instrument :
MSVOA_W
ClientSampleId :
FK-GF-02-038-B

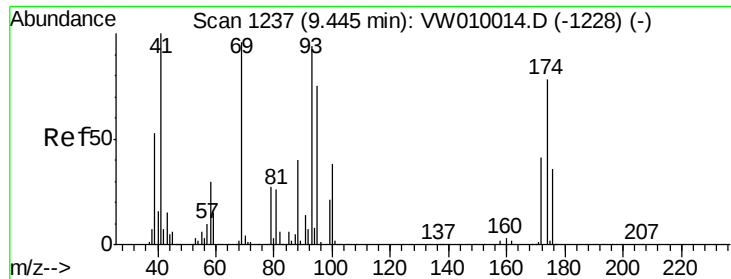
Tgt Ion: 83 Resp: 602
Ion Ratio Lower Upper
83 100
55 61.0 67.1 100.7#
98 35.8 39.2 58.8#



#40
Benzene
Concen: 1.088 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

Tgt Ion: 78 Resp: 2183
Ion Ratio Lower Upper
78 100
77 28.4 19.1 28.7





#49

1,4-Dioxane

Concen: 7.422 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.02 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-038-B

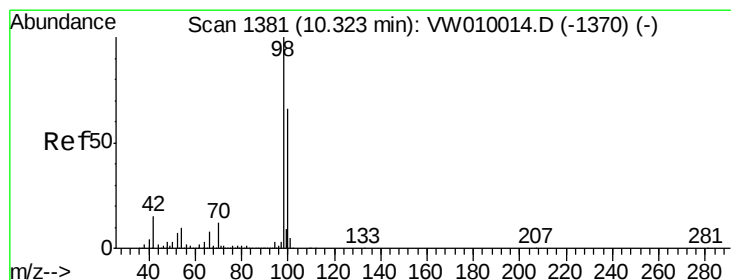
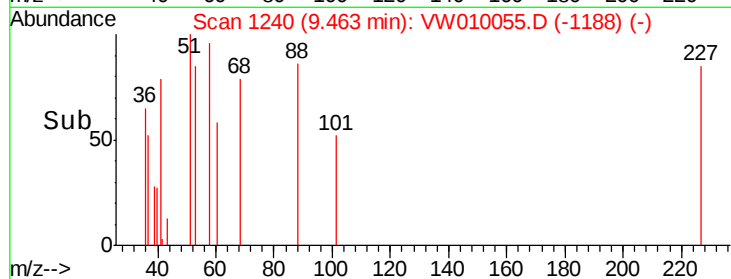
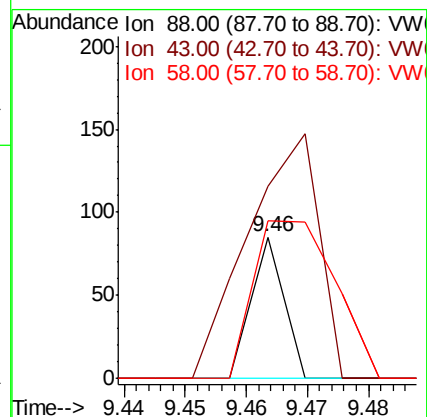
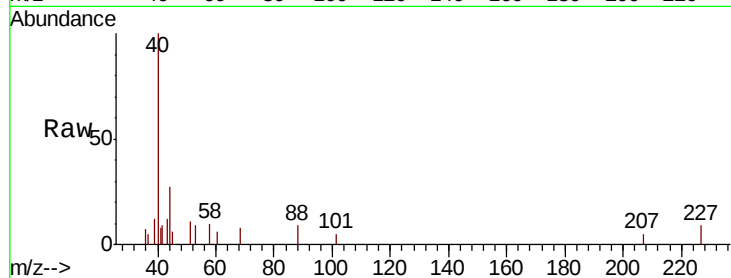
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 380.6 31.9 47.9#

58 283.9 61.8 92.6#



#50

Toluene-d8

Concen: 43.265 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW010055.D

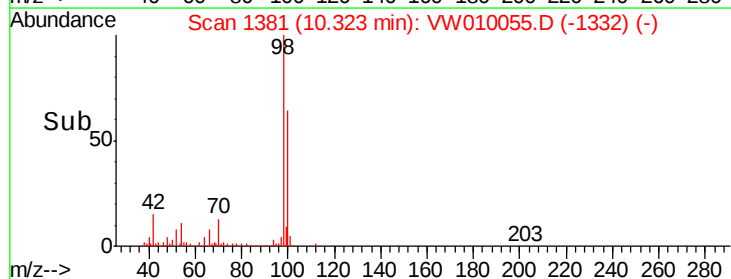
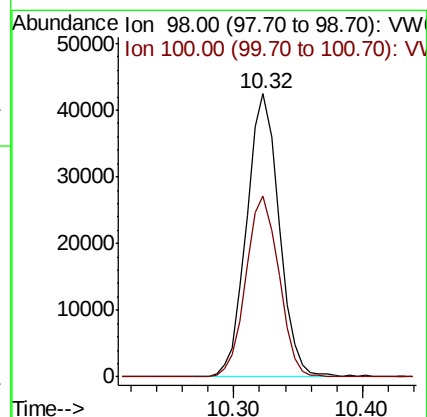
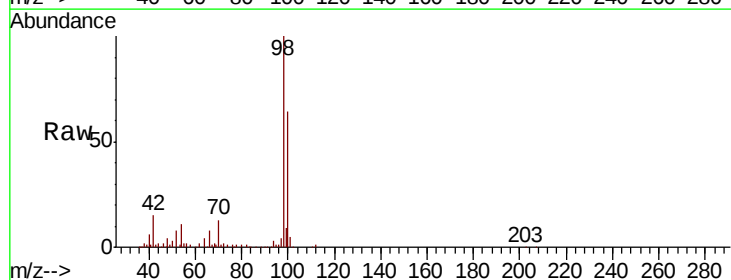
Acq: 18 Apr 2019 19:46

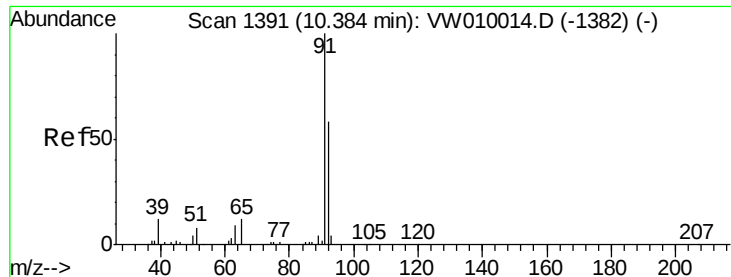
Tgt Ion: 98 Resp: 74049

Ion Ratio Lower Upper

98 100

100 64.7 52.3 78.5





#52

Toluene

Concen: 2.893 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

MSVOA_W

ClientSampleId :

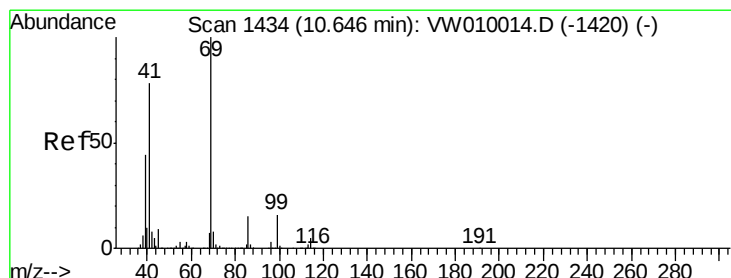
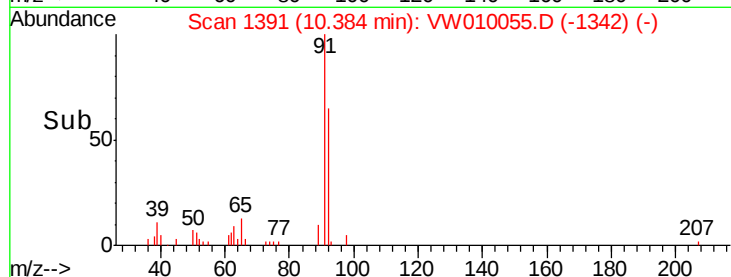
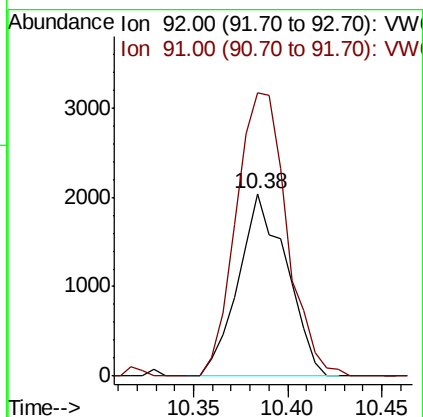
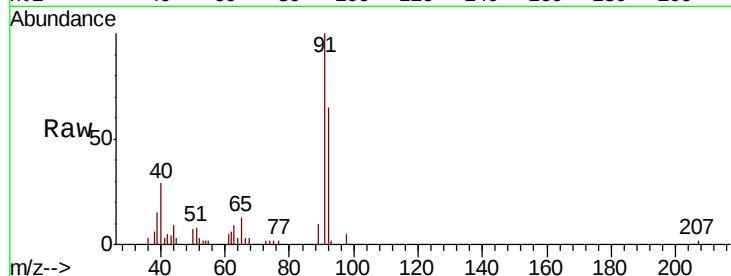
FK-GF-02-038-B

Tgt Ion: 92 Resp: 3616

Ion Ratio Lower Upper

92 100

91 163.3 138.5 207.7



#56

Ethyl methacrylate

Concen: 3.062 ug/l

RT: 10.66 min Scan# 1436

Delta R.T. 0.01 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

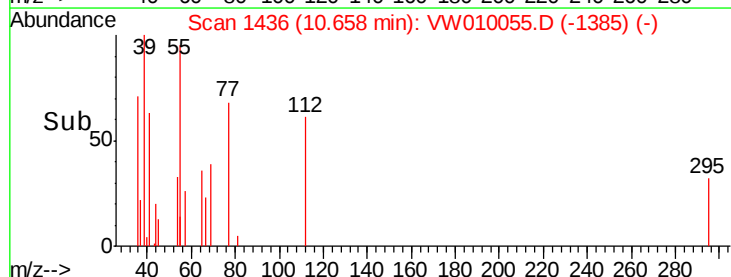
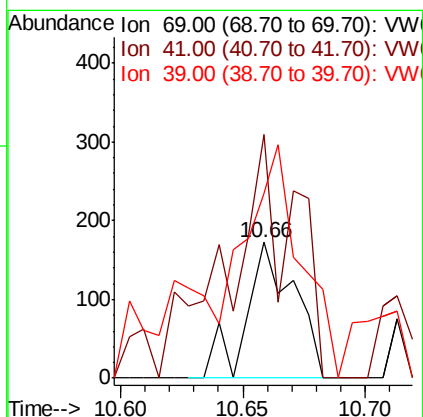
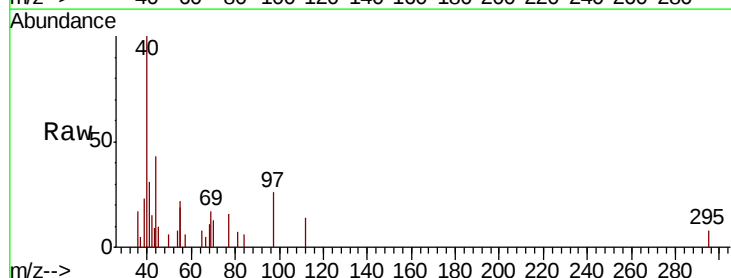
Tgt Ion: 69 Resp: 235

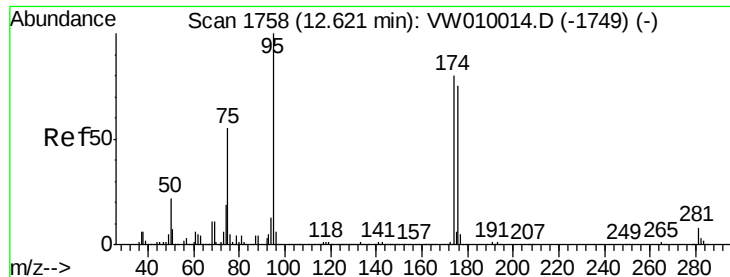
Ion Ratio Lower Upper

69 100

41 268.5 61.0 91.6#

39 197.9 33.8 50.6#

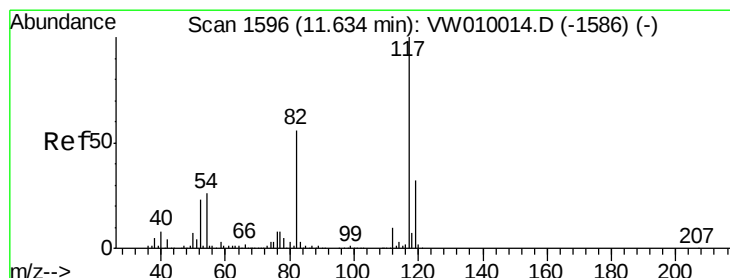
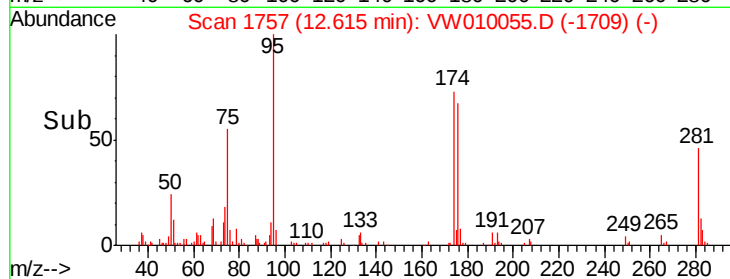
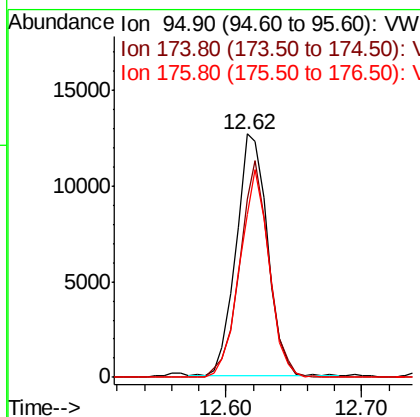
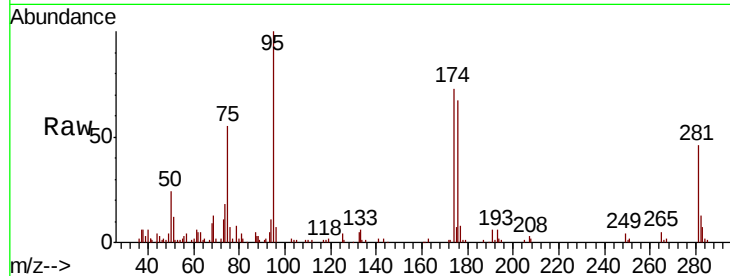




#62
4-Bromofluorobenzene
Concen: 32.967 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

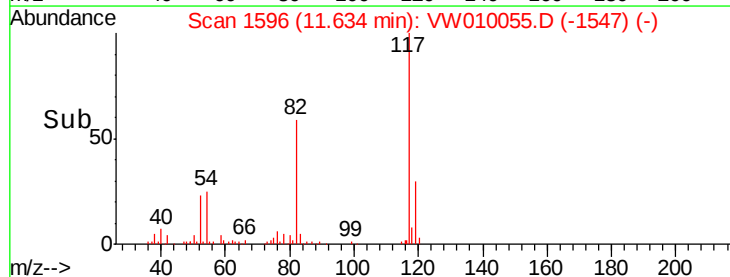
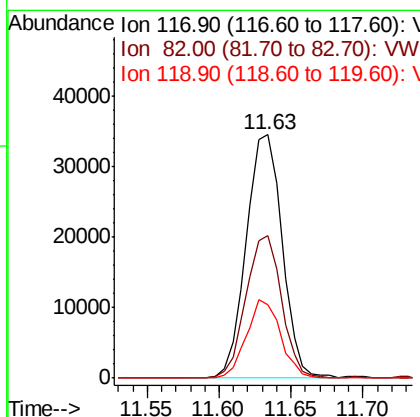
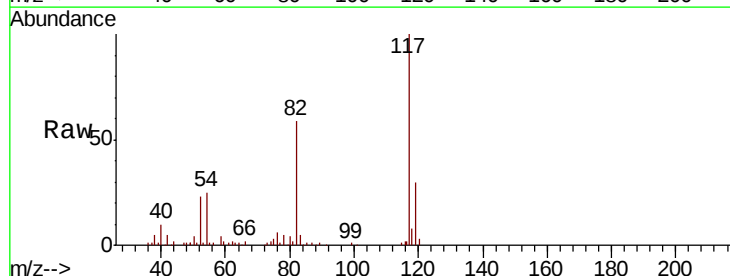
Instrument :
MSVOA_W
ClientSampleId :
FK-GF-02-038-B

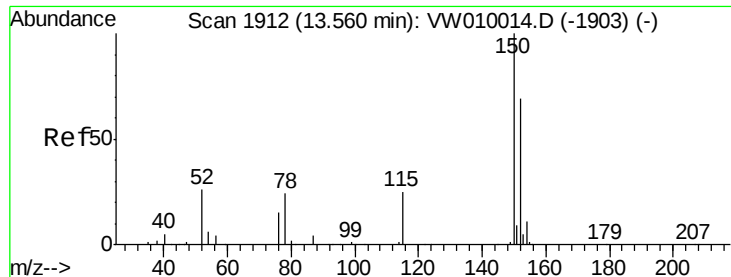
Tgt Ion: 95 Resp: 20510
Ion Ratio Lower Upper
95 100
174 82.9 0.0 151.4
176 79.6 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW010055.D
Acq: 18 Apr 2019 19:46

Tgt Ion: 117 Resp: 59720
Ion Ratio Lower Upper
117 100
82 58.5 45.2 67.8
119 29.9 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-038-B

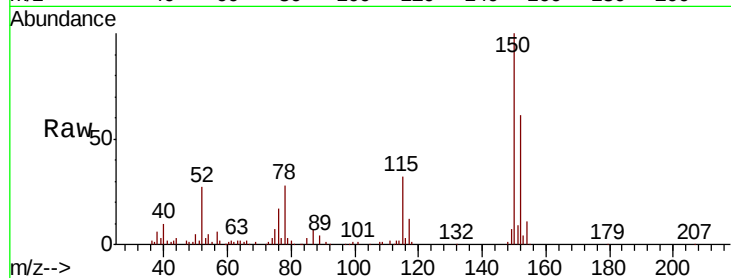
Tgt Ion:152 Resp: 18947

Ion Ratio Lower Upper

152 100

115 59.5 30.4 91.2

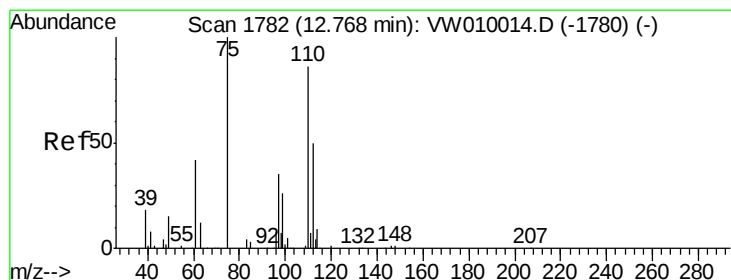
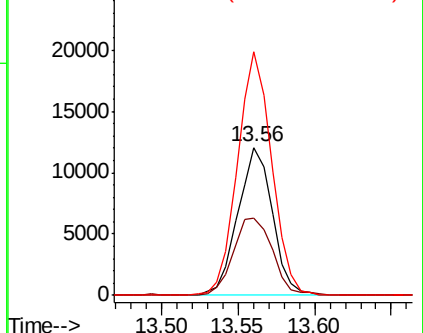
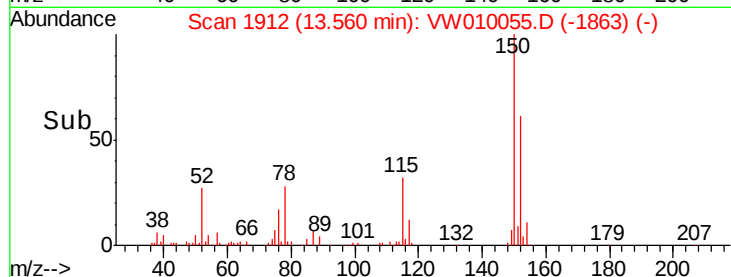
150 161.7 0.0 347.0



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: 61.251 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010055.D

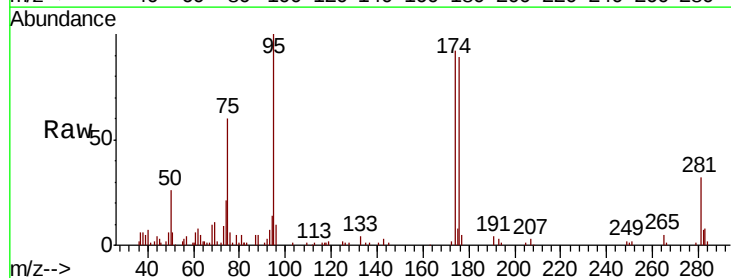
Acq: 18 Apr 2019 19:46

Tgt Ion: 75 Resp: 11615

Ion Ratio Lower Upper

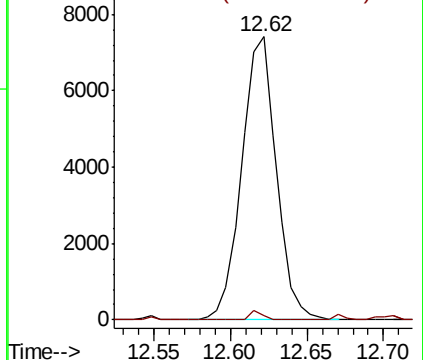
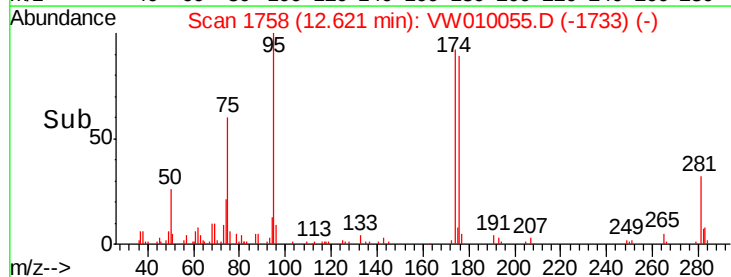
75 100

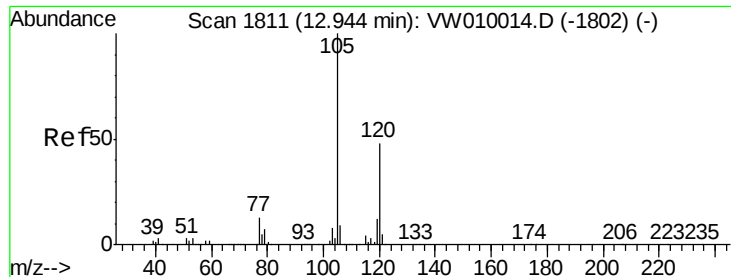
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

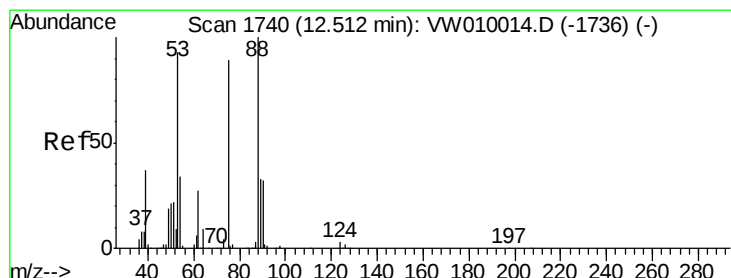
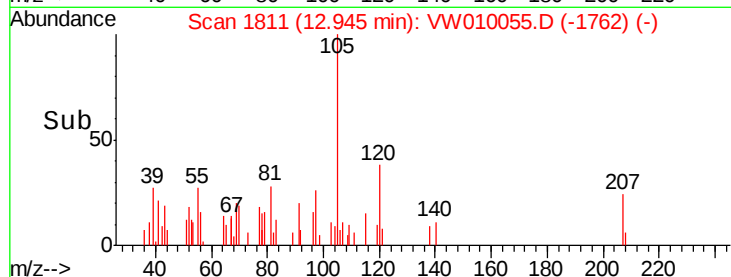
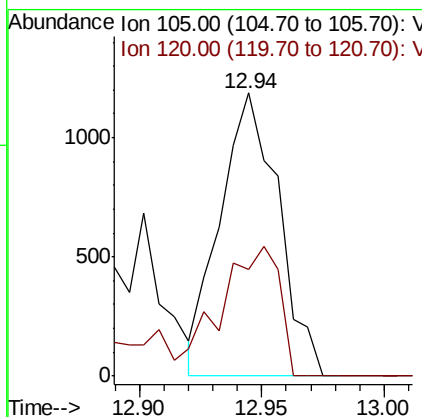
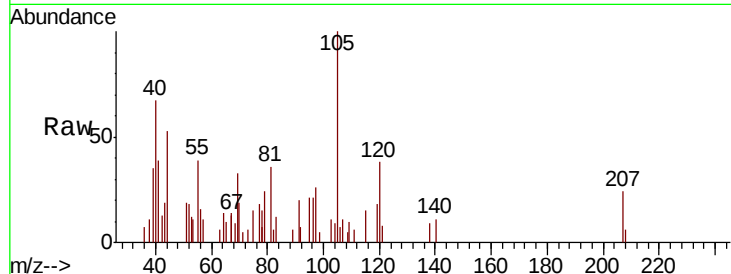




#80
 1,3,5-Trimethylbenzene
 Concen: 1.761 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

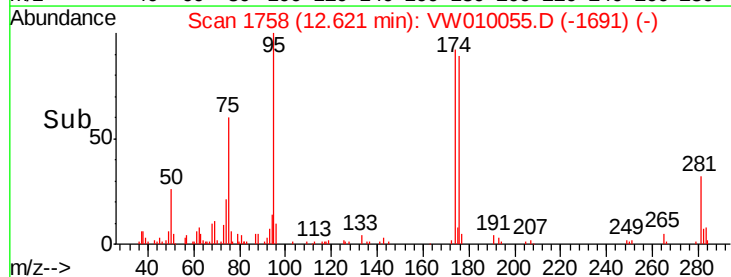
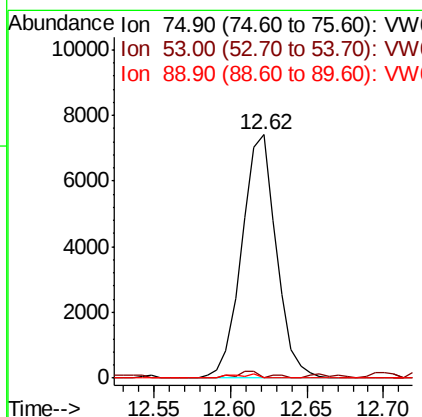
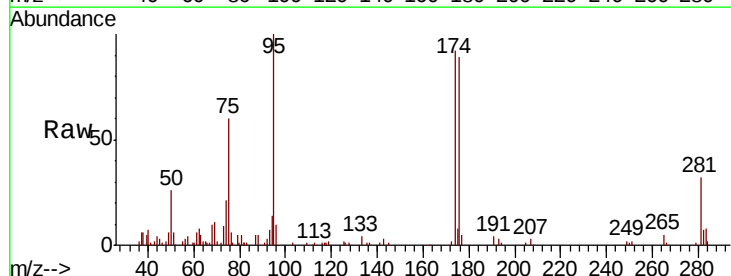
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-038-B

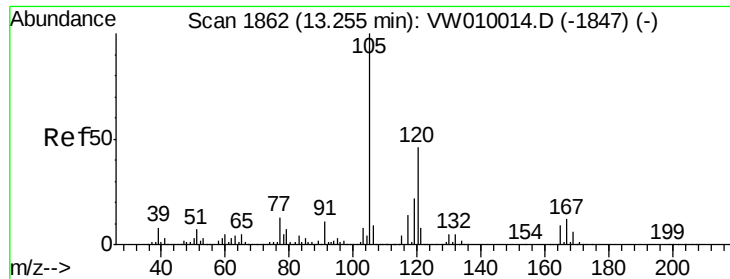
Tgt Ion: 105 Resp: 1969
 Ion Ratio Lower Upper
 105 100
 120 46.1 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 144.426 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

Tgt Ion: 75 Resp: 11615
 Ion Ratio Lower Upper
 75 100
 53 2.4 89.8 134.8#
 89 1.2 36.6 54.8#

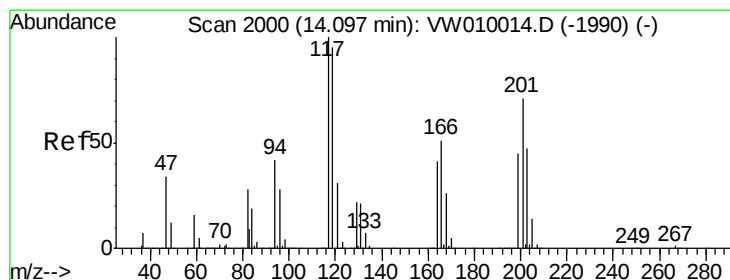
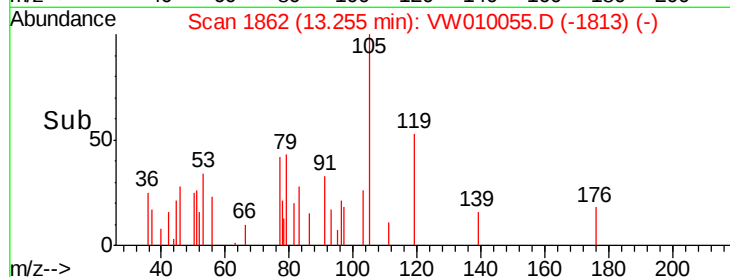
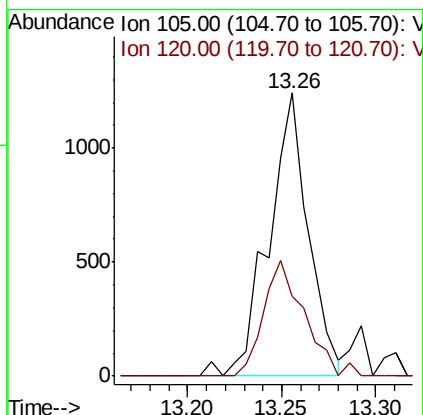
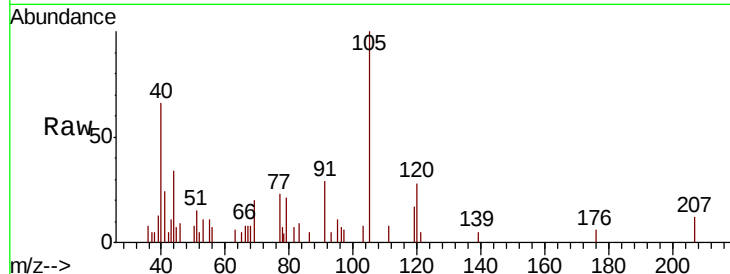




#84
 1,2,4-Trimethylbenzene
 Concen: 1.598 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

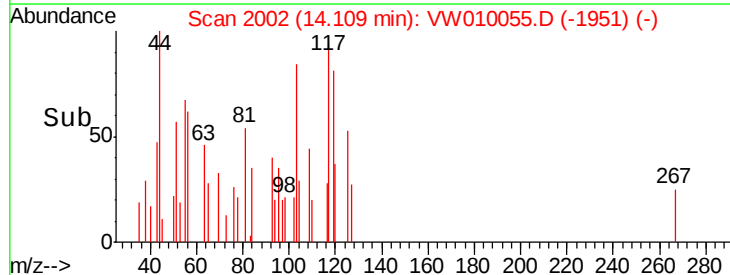
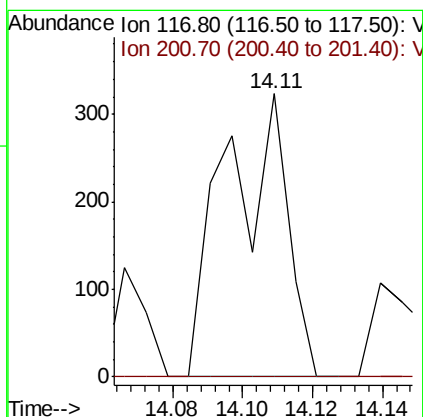
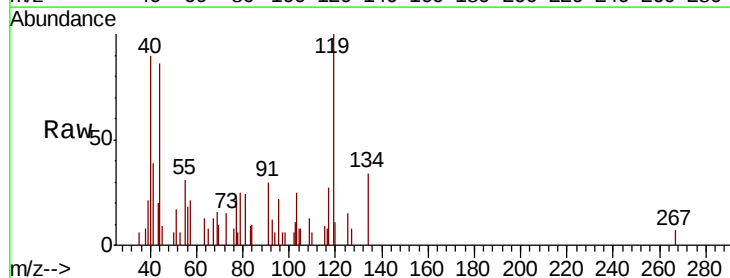
Instrument :
 MSVOA_W
 ClientSampleId :
 FK-GF-02-038-B

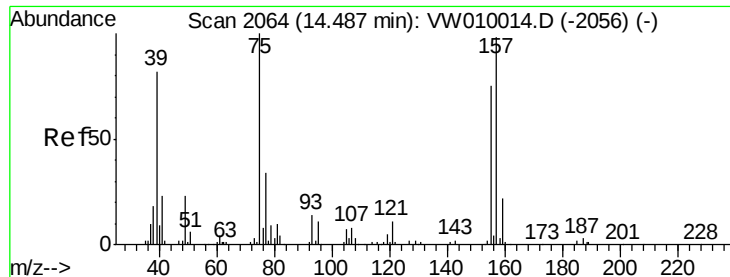
Tgt Ion:105 Resp: 1812
 Ion Ratio Lower Upper
 105 100
 120 41.9 22.6 67.7



#90
 Hexachloroethane
 Concen: 1.674 ug/l
 RT: 14.11 min Scan# 2002
 Delta R.T. 0.01 min
 Lab File: VW010055.D
 Acq: 18 Apr 2019 19:46

Tgt Ion:117 Resp: 391
 Ion Ratio Lower Upper
 117 100
 201 0.0 36.1 108.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.051 ug/l

RT: 14.53 min Scan# 2071

Delta R.T. 0.04 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

Instrument :

MSVOA_W

ClientSampleId :

FK-GF-02-038-B

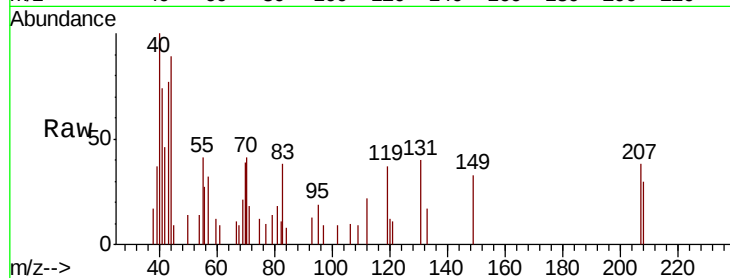
Tgt Ion: 75 Resp: 49

Ion Ratio Lower Upper

75 100

155 0.0 37.1 111.5#

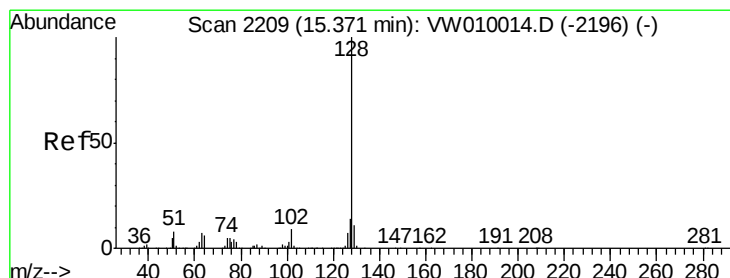
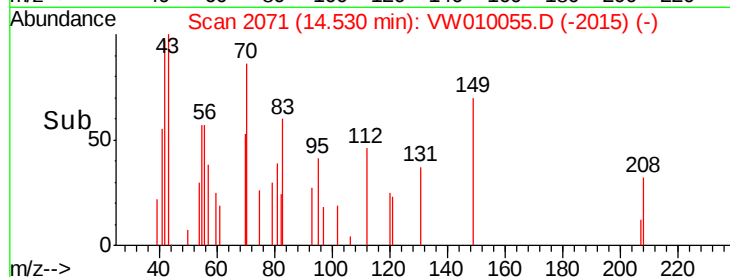
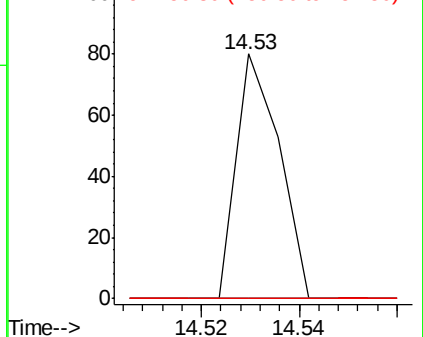
157 0.0 47.3 141.9#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 3.813 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010055.D

Acq: 18 Apr 2019 19:46

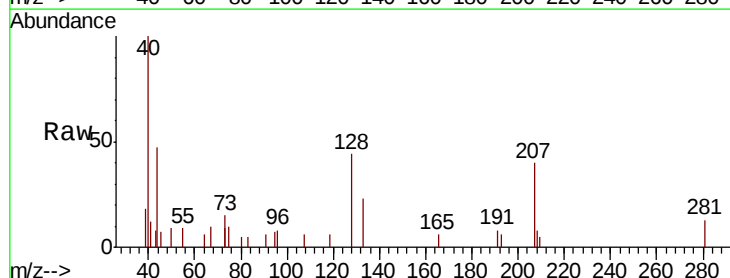
Tgt Ion: 128 Resp: 892

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

