

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030419\
 Data File : VD060922.D
 Acq On : 4 Mar 2019 14:36
 Operator : VA/AP
 Sample : K1672-04
 Misc : 6.97g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-033-B

Quant Time: Mar 05 01:32:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030119S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 02 01:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	103227	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.23	114	205074	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	177080	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	75248	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.48	65	68096	79.80	ug/l	0.03
Spiked Amount	50.000		Recovery	=	159.60%	
35) Dibromofluoromethane	6.95	113	86247	52.46	ug/l	0.04
Spiked Amount	50.000		Recovery	=	104.92%	
50) Toluene-d8	10.43	98	165556	40.47	ug/l	0.03
Spiked Amount	50.000		Recovery	=	80.94%	
62) 4-Bromofluorobenzene	13.56	95	77010	49.81	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.62%	

Target Compounds

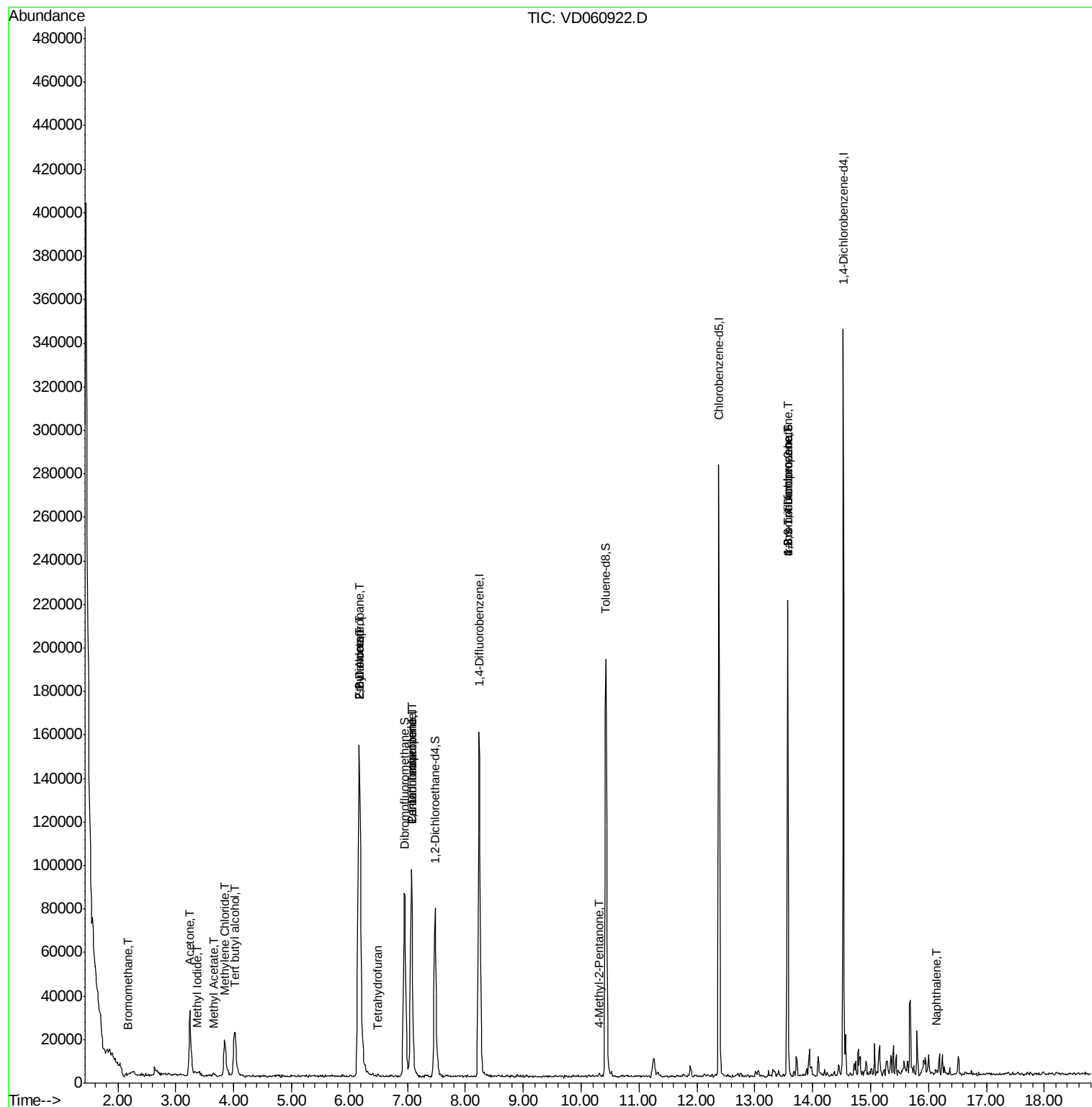
						Qvalue
5) Bromomethane	2.18	94	184	1.215	ug/l #	13
10) Methyl Iodide	3.36	142	2214	5.740	ug/l #	40
11) Tert butyl alcohol	4.02	59	21553	338.871	ug/l #	77
16) Acetone	3.24	43	55227	193.827	ug/l	98
18) Methyl Acetate	3.66	43	2079	3.563	ug/l #	56
20) Methylene Chloride	3.84	84	12530	6.076	ug/l	93
25) 2-Butanone	6.17	43	8999	25.460	ug/l #	55
26) 2,2-Dichloropropane	6.17	77	11119	6.843	ug/l #	48
29) Tetrahydrofuran	6.48	42	826	4.540	ug/l #	34
36) 1,1-Dichloropropene	7.07	75	7063	3.746	ug/l #	39
37) Ethyl Acetate	6.17	43	8999	9.284	ug/l #	1
38) Carbon Tetrachloride	7.06	117	9119	4.502	ug/l #	12
51) 4-Methyl-2-Pentanone	10.32	43	1474	1.791	ug/l #	36
76) 1,2,3-Trichloropropane	13.56	75	22954	18.827	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	26130	72.416	ug/l #	20
89) n-Butylbenzene	14.78	91	1734	Below Cal	#	1
95) Naphthalene	16.14	128	2345	1.159	ug/l #	69

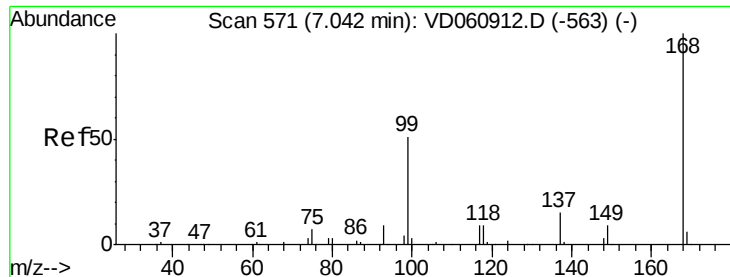
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 02 01:28:28 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

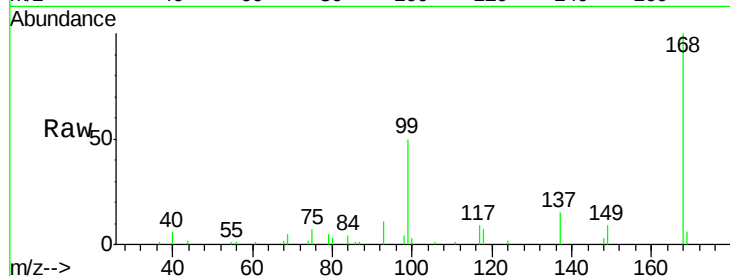
FK-GF-02-033-B

Tot Ion:168 Resp: 103227

Ion Ratio Lower Upper

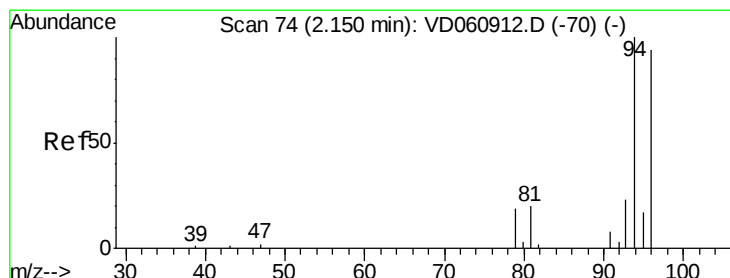
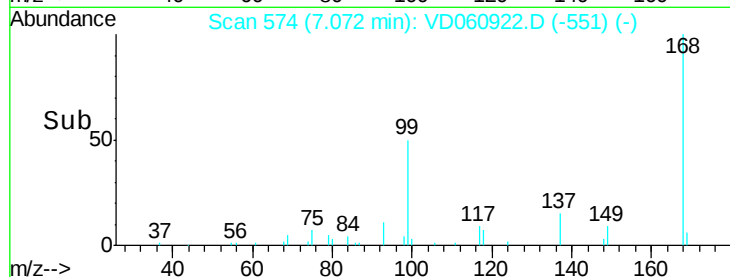
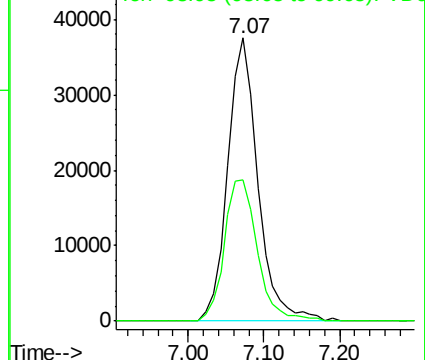
168 100

99 50.1 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.215 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.03 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

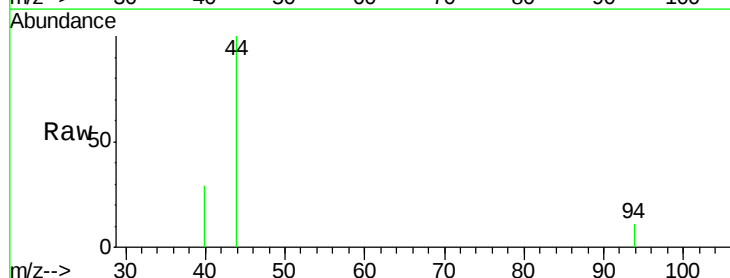
Tgt Ion: 94 Resp: 184

Ion Ratio Lower Upper

94 100

96 0.0 75.1 112.7#

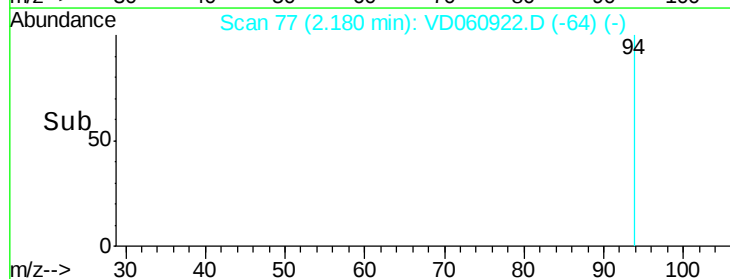
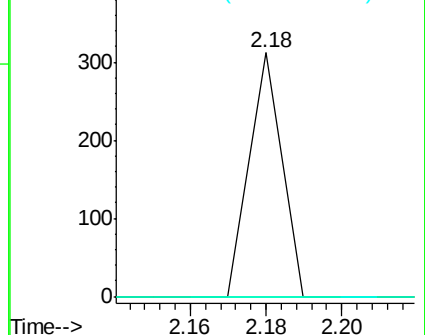
93 0.0 18.6 28.0#

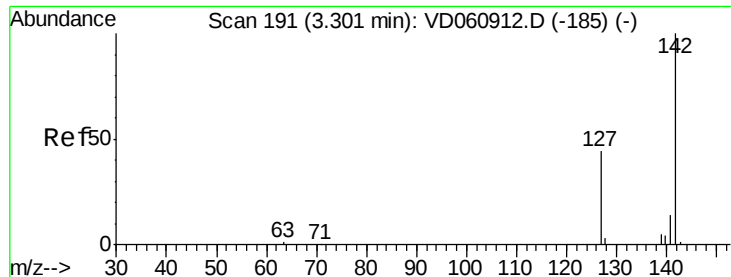


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

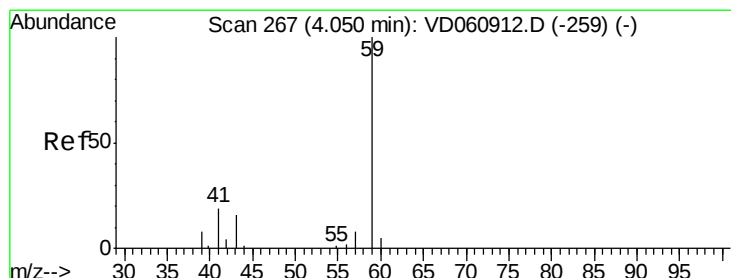
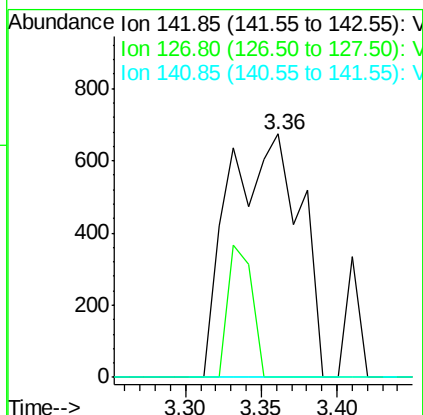
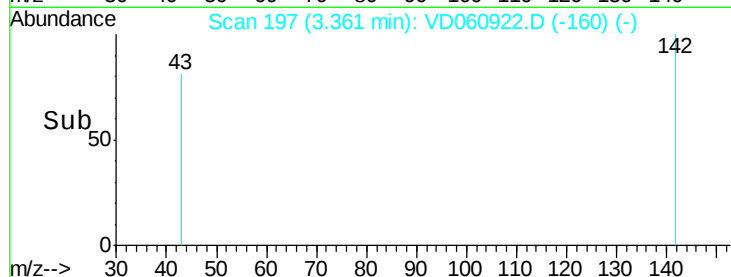
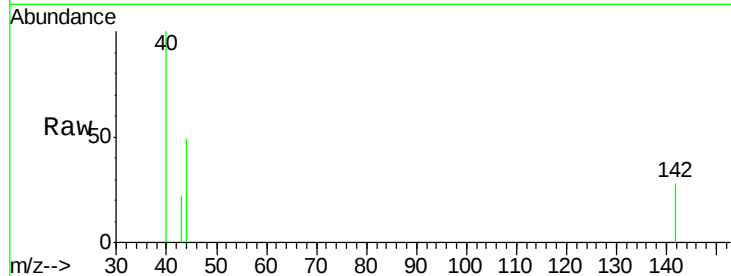




#10
Methyl Iodide
Concen: 5.740 ug/l
RT: 3.36 min Scan# 197
Delta R.T. 0.06 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

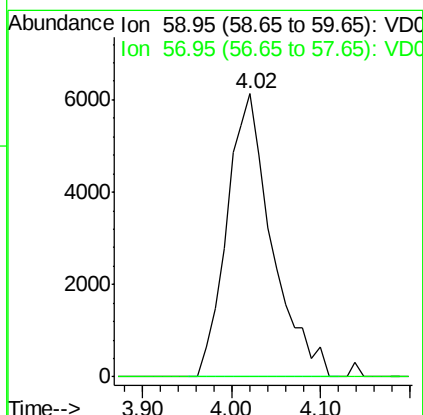
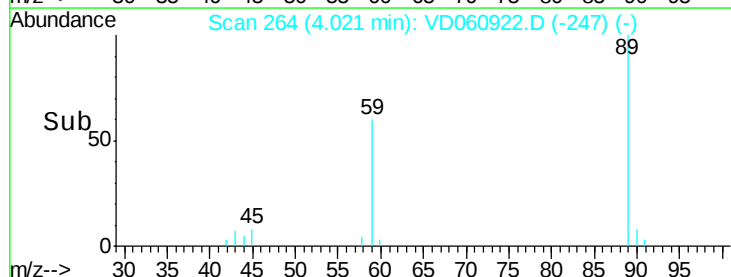
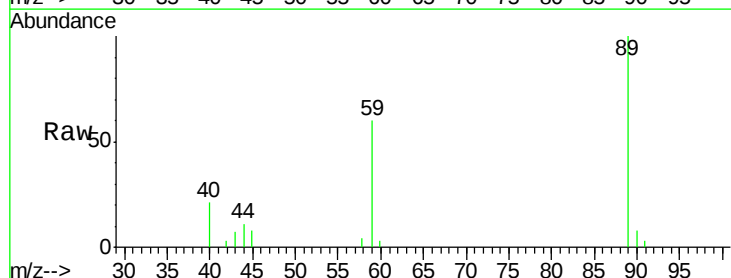
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-033-B

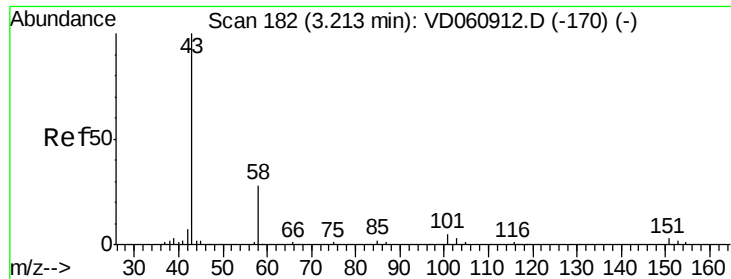
Tot Ion:142 Resp: 2214
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.6#
141 0.0 11.0 16.4#



#11
Tert butyl alcohol
Concen: 338.871 ug/l
RT: 4.02 min Scan# 264
Delta R.T. -0.03 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

Tgt Ion: 59 Resp: 21553
Ion Ratio Lower Upper
59 100
57 0.0 6.5 9.7#





#16

Acetone

Concen: 193.827 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.03 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

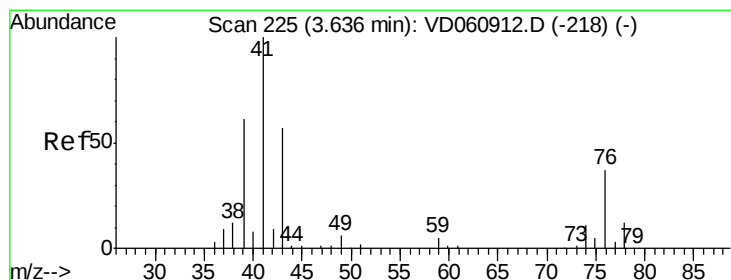
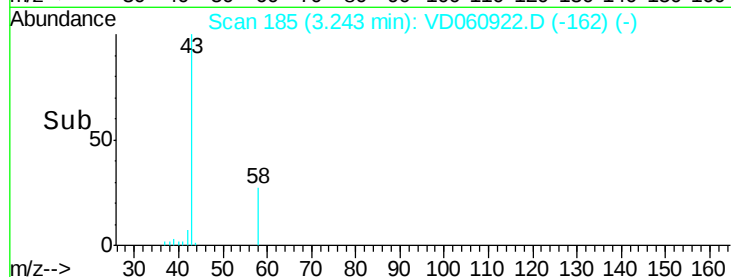
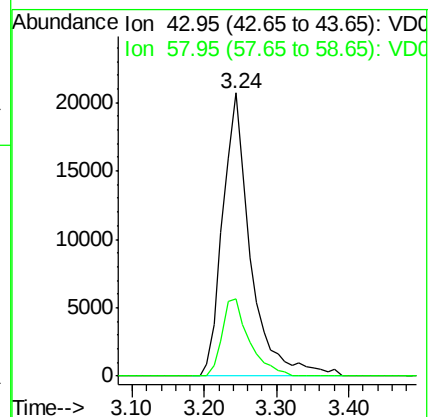
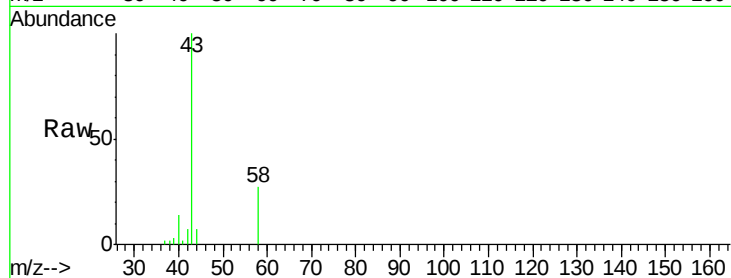
FK-GF-02-033-B

Tot Ion: 43 Resp: 55227

Ion Ratio Lower Upper

43 100

58 27.2 22.8 34.2



#18

Methyl Acetate

Concen: 3.563 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.02 min

Lab File: VD060922.D

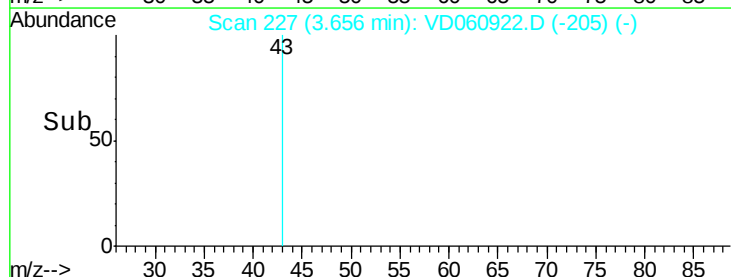
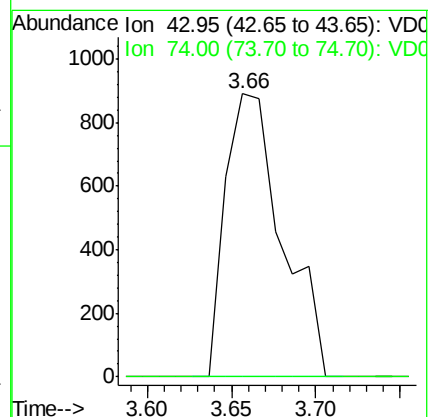
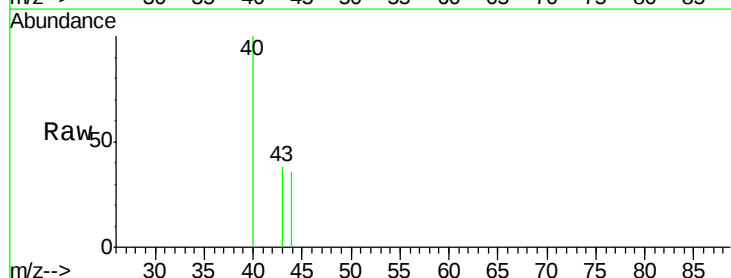
Acq: 4 Mar 2019 14:36

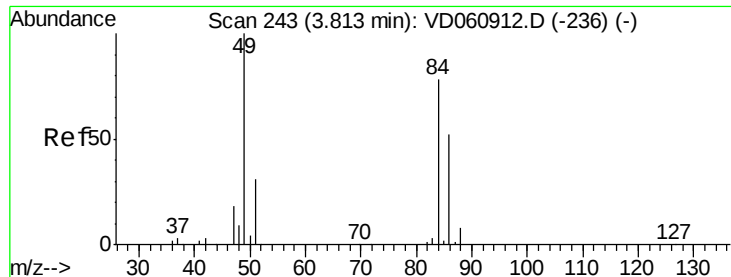
Tgt Ion: 43 Resp: 2079

Ion Ratio Lower Upper

43 100

74 0.0 16.1 24.1#

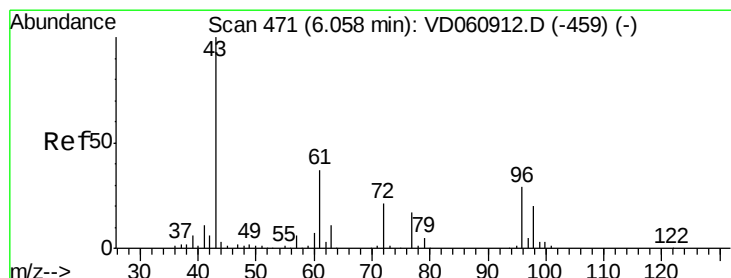
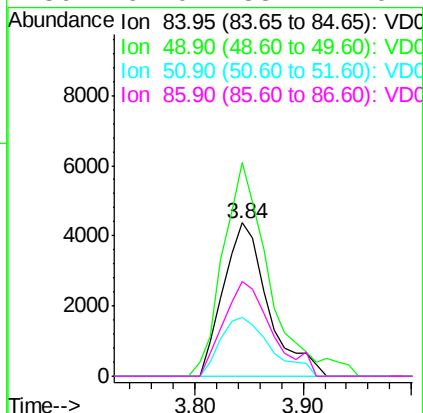
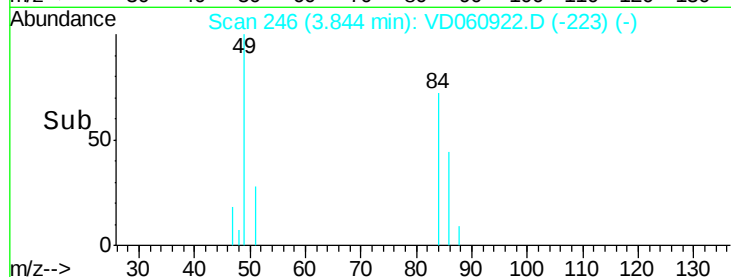
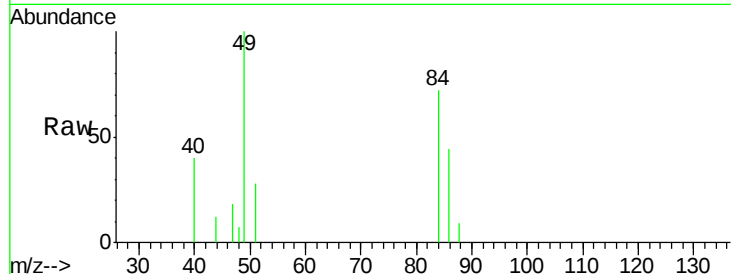




#20
Methvlene Chloride
Concen: 6.076 ug/l
RT: 3.84 min Scan# 246
Delta R.T. 0.03 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

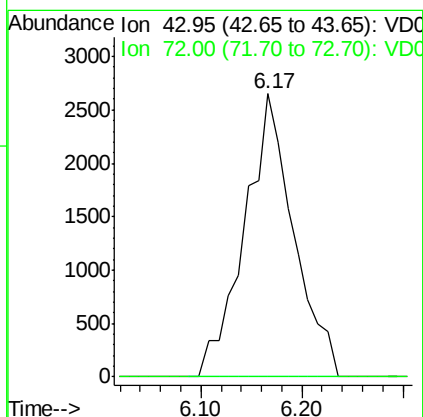
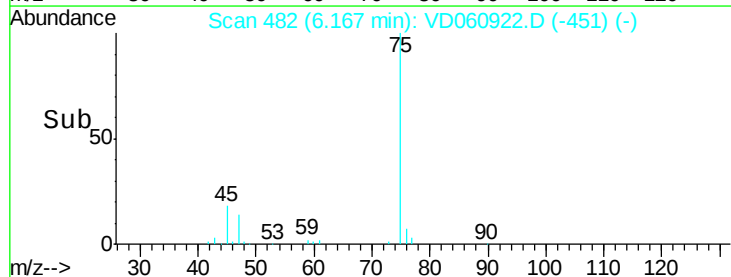
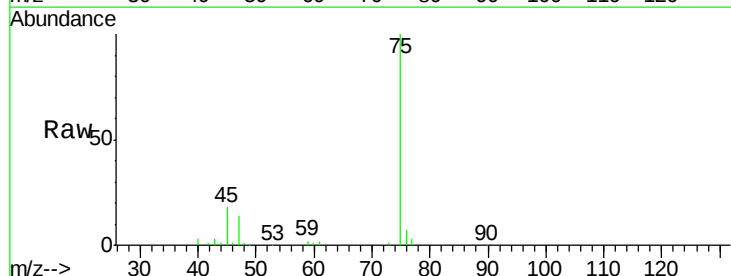
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-033-B

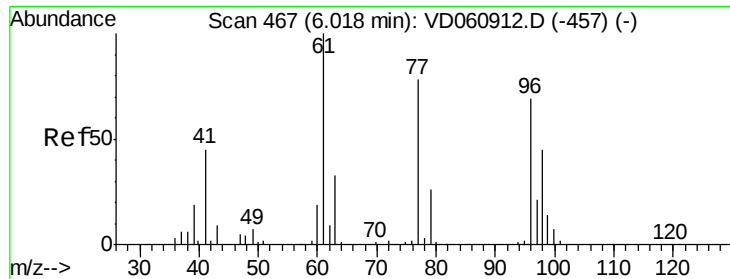
Tot Ion: 84 Resp: 12530
Ion Ratio Lower Upper
84 100
49 139.5 102.4 153.6
51 38.7 31.9 47.9
86 62.0 53.1 79.7



#25
2-Butanone
Concen: 25.460 ug/l
RT: 6.17 min Scan# 482
Delta R.T. 0.11 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

Tgt Ion: 43 Resp: 8999
Ion Ratio Lower Upper
43 100
72 0.0 17.0 25.4#





#26

2,2-Dichloropropane

Concen: 6.843 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.15 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

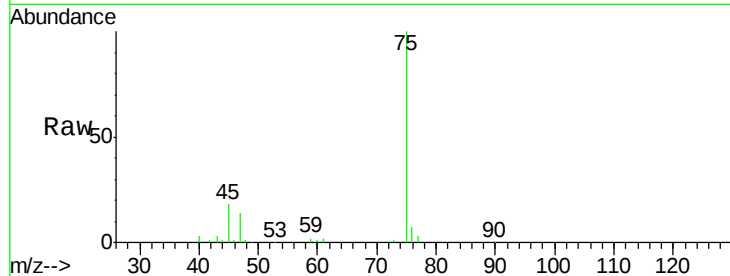
FK-GF-02-033-B

Tot Ion: 77 Resp: 11119

Ion Ratio Lower Upper

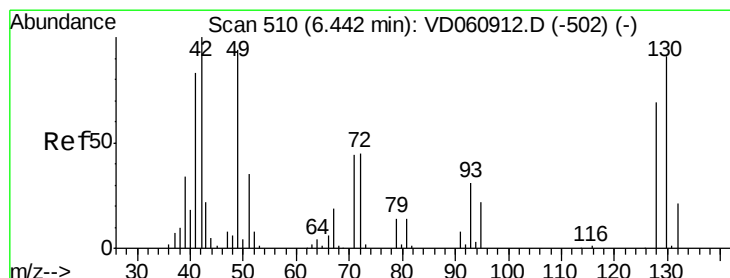
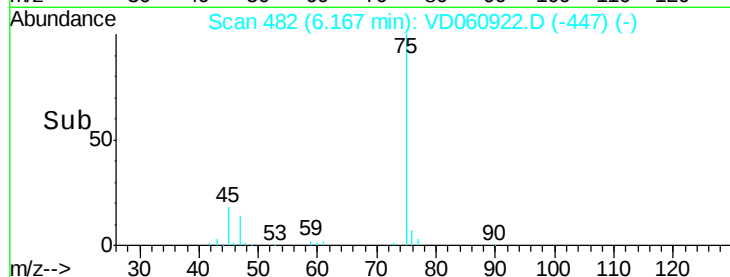
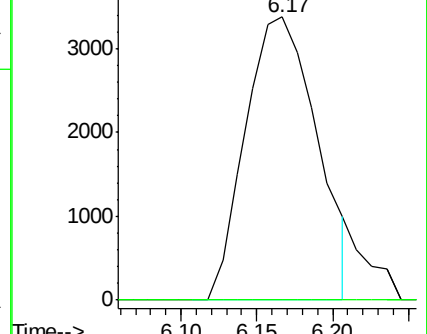
77 100

97 0.0 13.5 40.4#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#29

Tetrahydrofuran

Concen: 4.540 ug/l

RT: 6.48 min Scan# 514

Delta R.T. 0.04 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

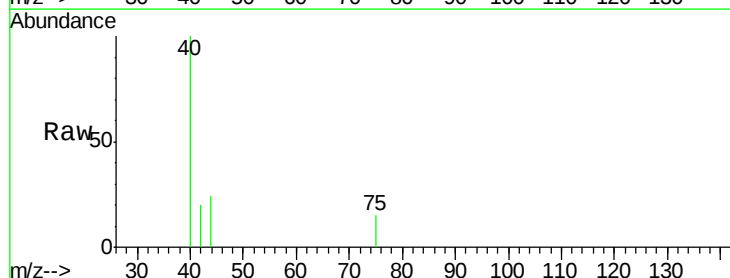
Tgt Ion: 42 Resp: 826

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

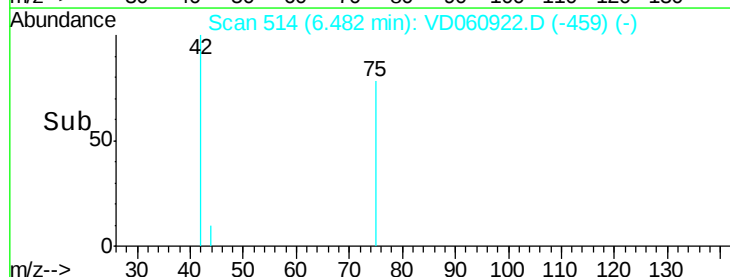
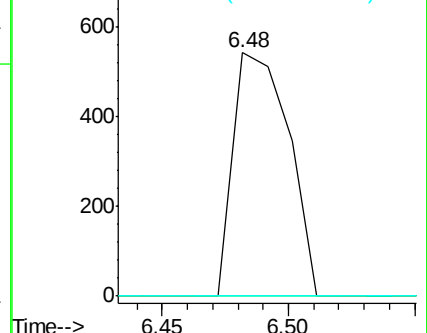
71 0.0 33.5 50.3#

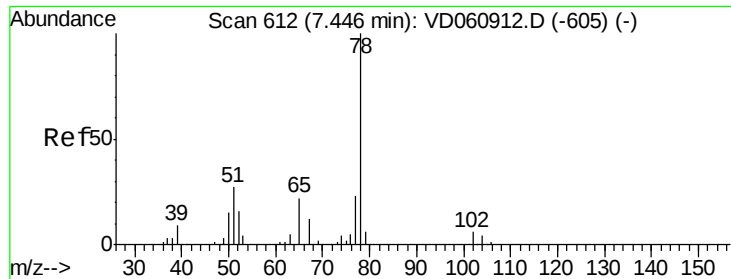


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.03 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

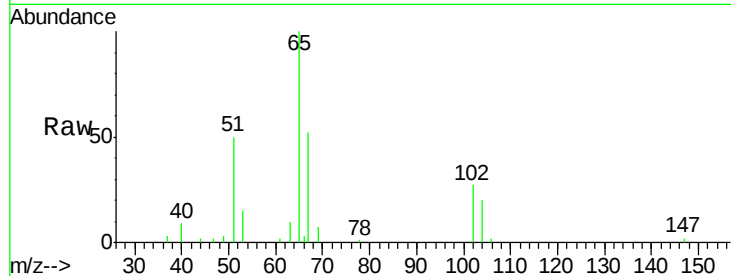
FK-GF-02-033-B

Tot Ion: 65 Resp: 68096

Ion Ratio Lower Upper

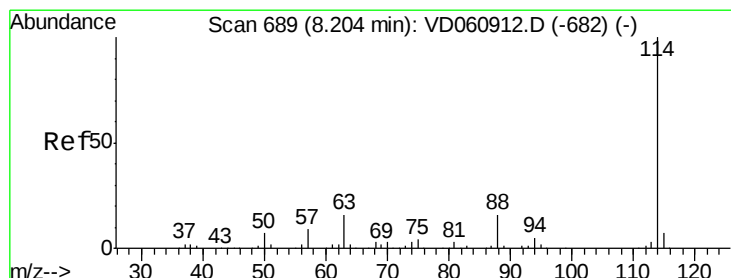
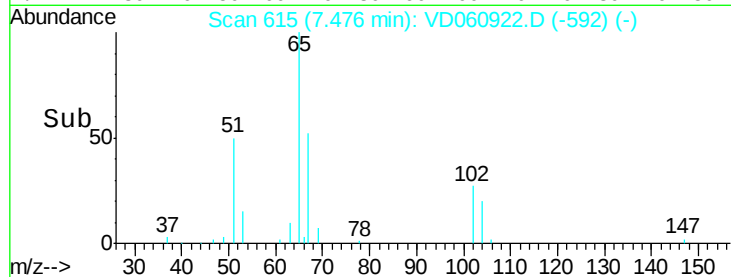
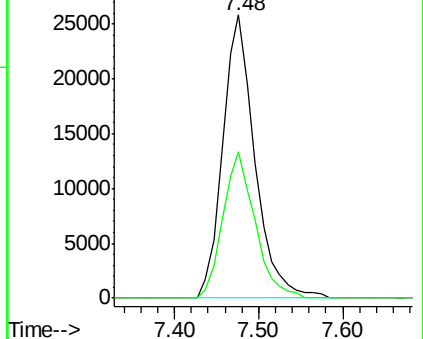
65 100

67 51.8 0.0 109.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.03 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

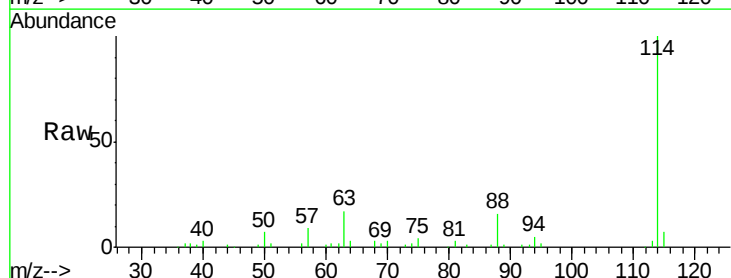
Tgt Ion: 114 Resp: 205074

Ion Ratio Lower Upper

114 100

63 16.7 0.0 32.0

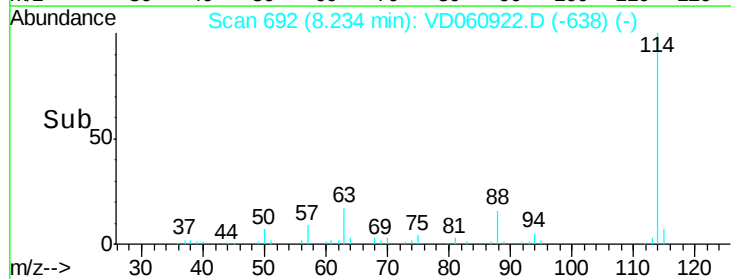
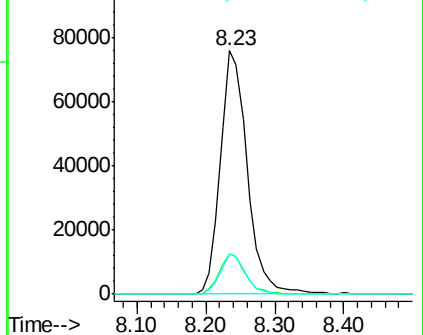
88 16.4 0.0 32.8

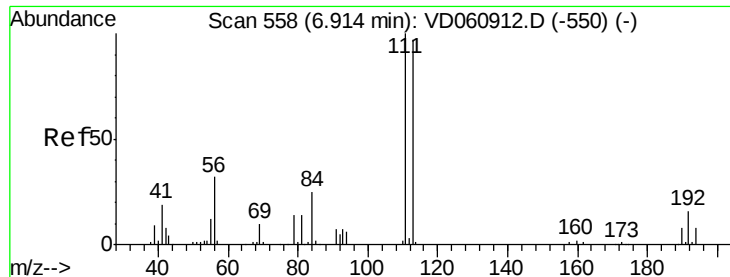


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.95 min Scan# 562

Delta R.T. 0.04 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

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ClientSampleId :

FK-GF-02-033-B

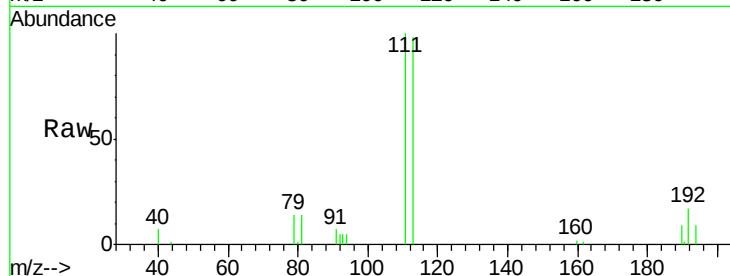
Tot Ion:113 Resp: 86247

Ion Ratio Lower Upper

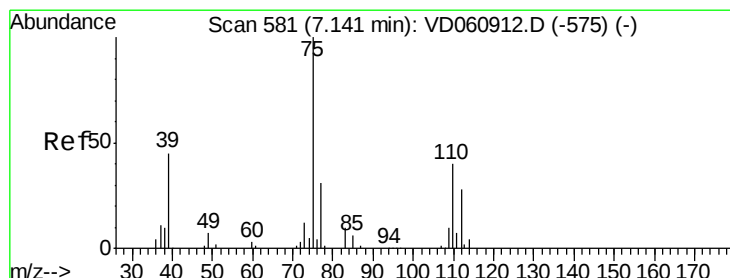
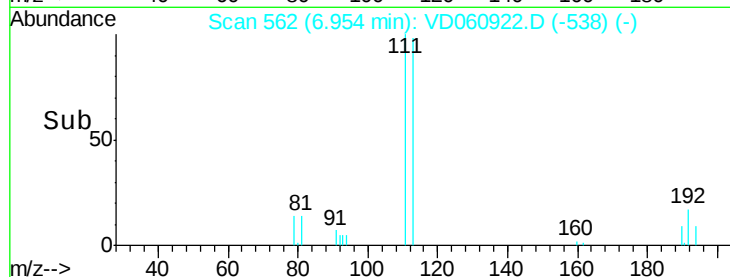
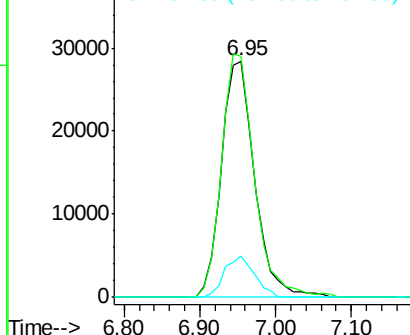
113 100

111 102.1 82.6 124.0

192 17.5 13.4 20.2



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 3.746 ug/l

RT: 7.07 min Scan# 574

Delta R.T. -0.07 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

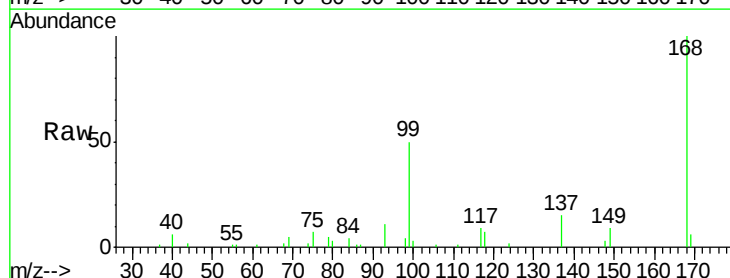
Tgt Ion: 75 Resp: 7063

Ion Ratio Lower Upper

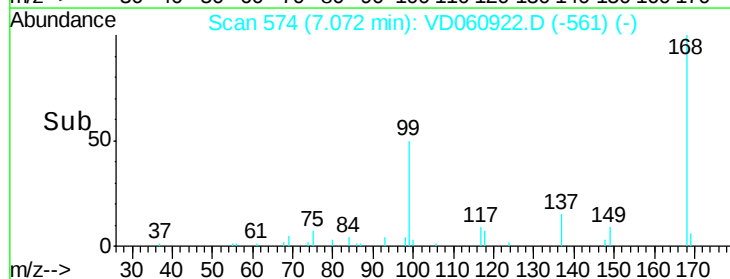
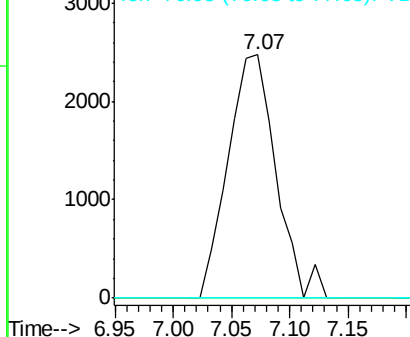
75 100

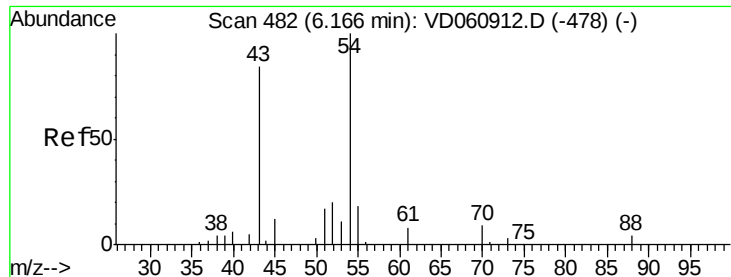
110 0.0 19.9 59.7#

77 0.0 25.0 37.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 9.284 ug/l

RT: 6.17 min Scan# 482

Delta R.T. 0.00 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-033-B

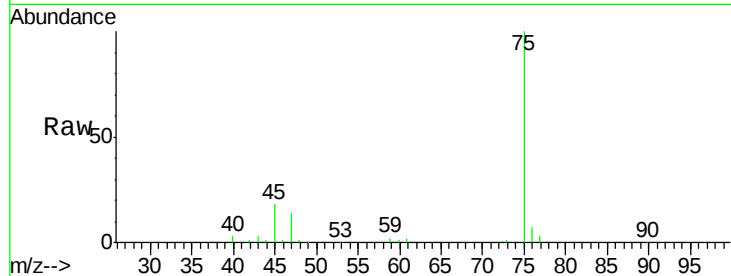
Tot Ion: 43 Resp: 8999

Ion Ratio Lower Upper

43 100

61 82.9 12.1 18.1#

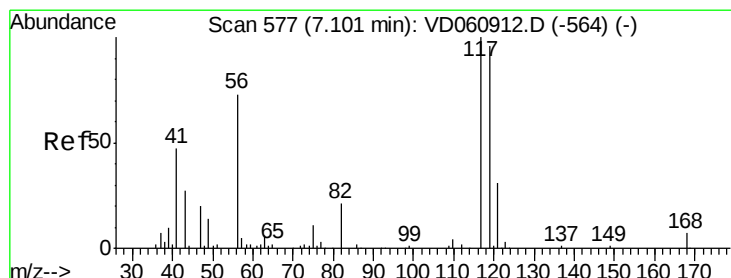
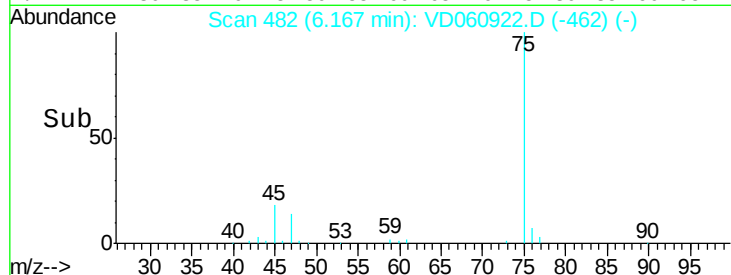
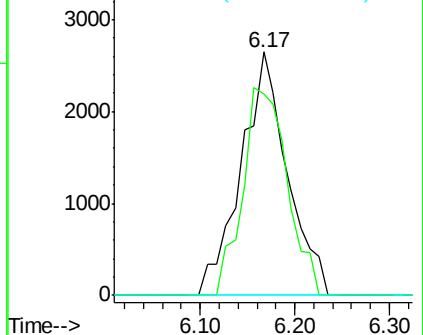
70 0.0 7.3 10.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 4.502 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.04 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

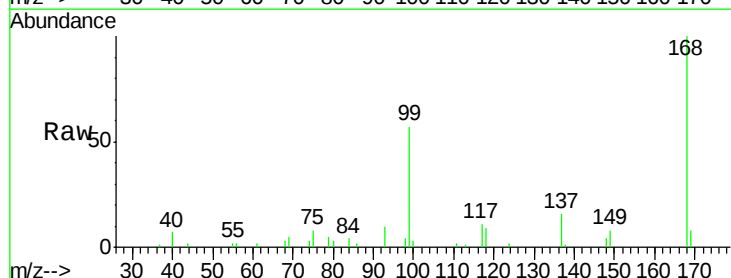
Tgt Ion: 117 Resp: 9119

Ion Ratio Lower Upper

117 100

119 0.0 76.9 115.3#

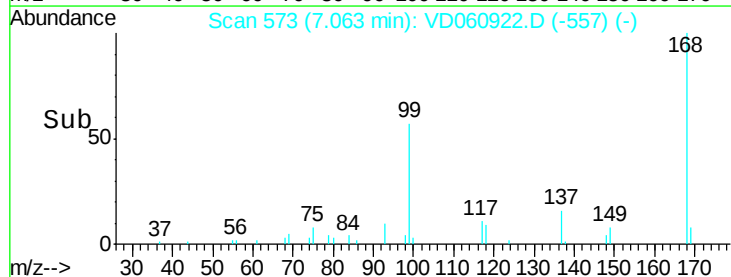
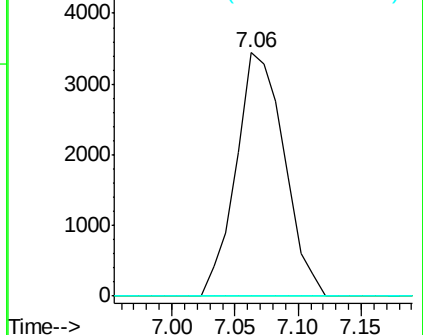
121 0.0 24.5 36.7#

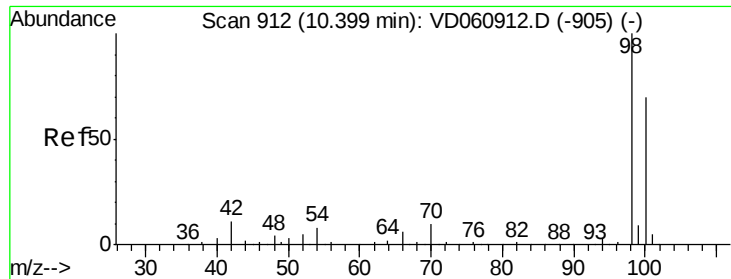


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

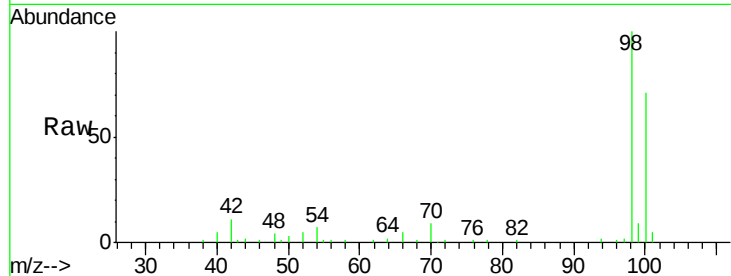




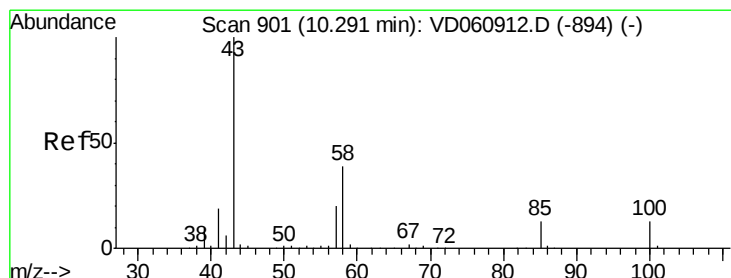
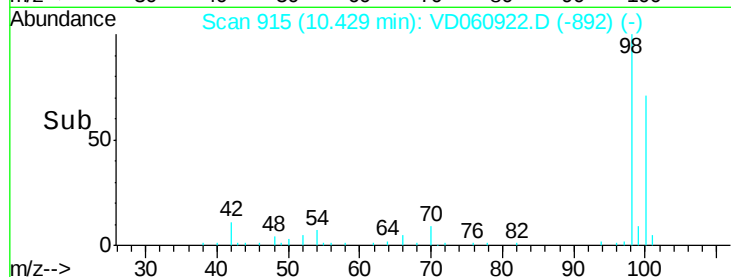
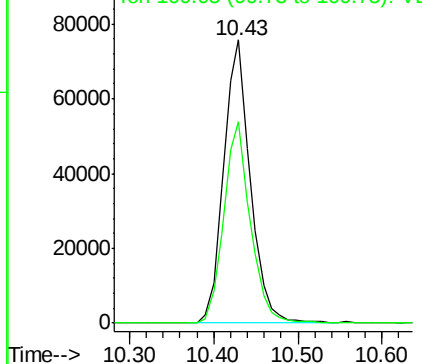
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-033-B

Tot Ion: 98 Resp: 165556
Ion Ratio Lower Upper
98 100
100 71.4 57.0 85.4

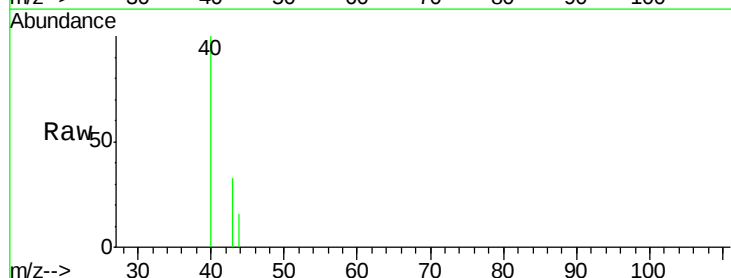


Abundance Ion 98.05 (97.75 to 98.75): VD060922.D (-905) (-)
Ion 100.05 (99.75 to 100.75): VD060922.D (-905) (-)

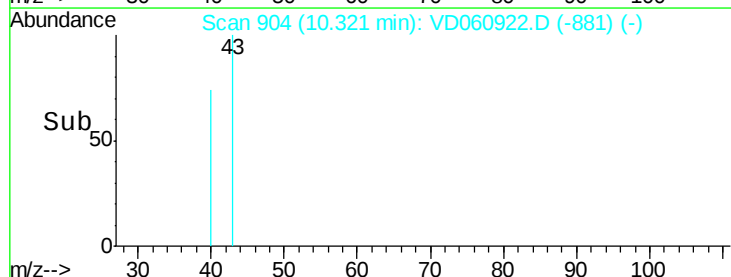
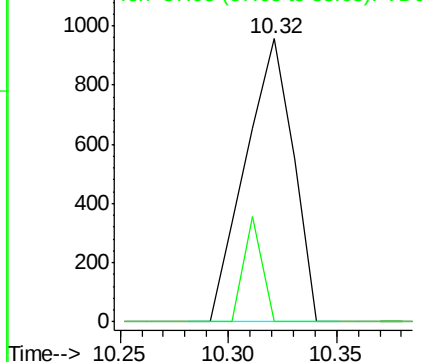


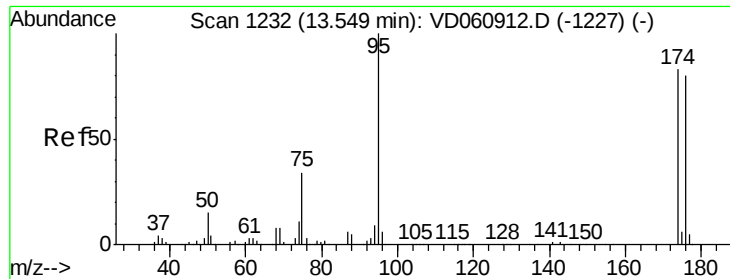
#51
4-Methyl-2-Pentanone
Concen: 1.791 ug/l
RT: 10.32 min Scan# 904
Delta R.T. 0.03 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

Tgt Ion: 43 Resp: 1474
Ion Ratio Lower Upper
43 100
58 0.0 31.0 46.6#



Abundance Ion 42.95 (42.65 to 43.65): VD060922.D (-881) (-)
Ion 57.95 (57.65 to 58.65): VD060922.D (-881) (-)

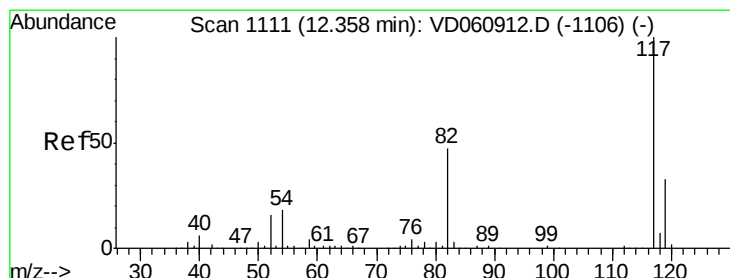
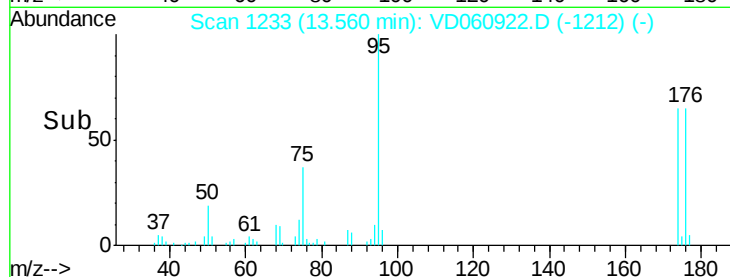
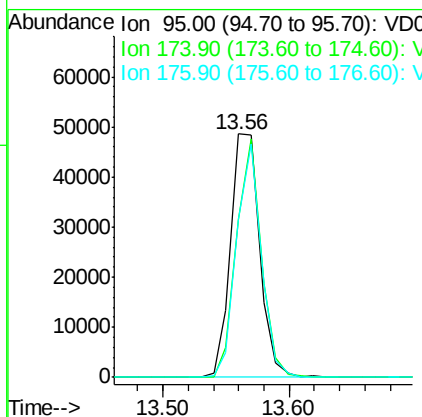
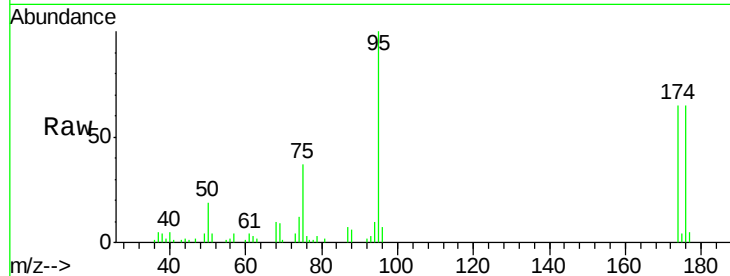




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

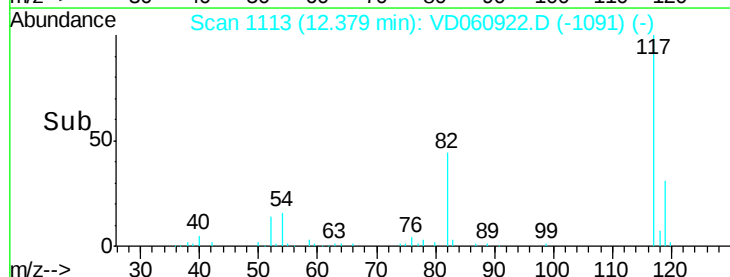
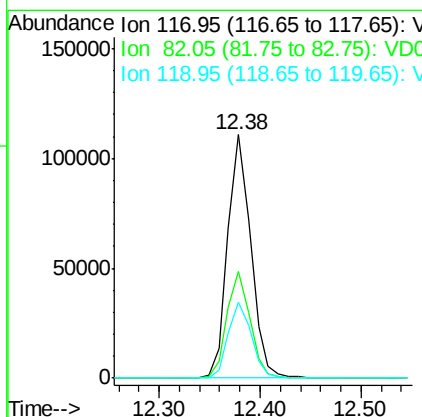
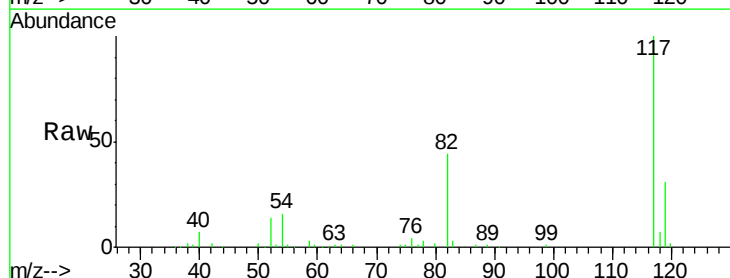
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-033-B

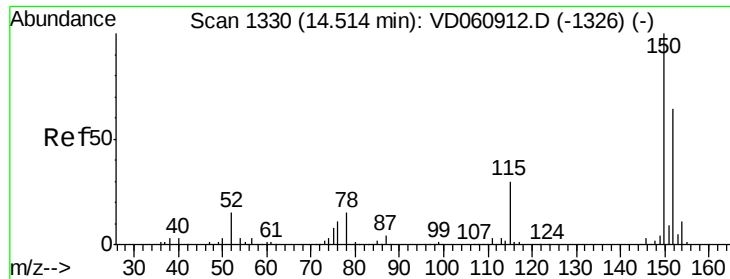
Tot Ion: 95 Resp: 77010
Ion Ratio Lower Upper
95 100
174 65.1 0.0 165.6
176 64.7 0.0 160.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD060922.D
Acq: 4 Mar 2019 14:36

Tgt Ion: 117 Resp: 177080
Ion Ratio Lower Upper
117 100
82 43.8 37.5 56.3
119 31.4 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-033-B

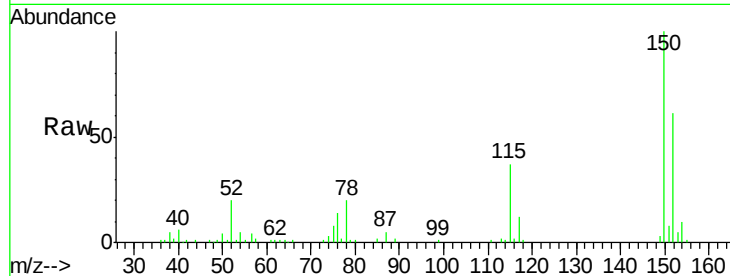
Tot Ion:152 Resp: 75248

Ion Ratio Lower Upper

152 100

115 61.0 27.6 82.8

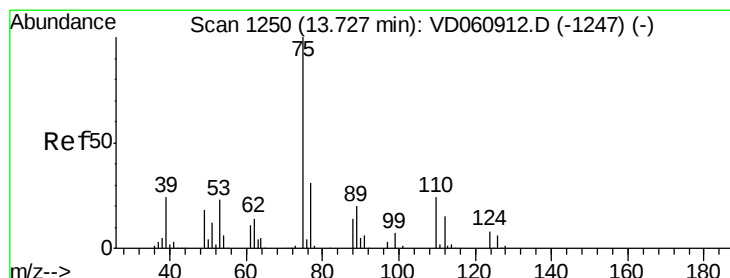
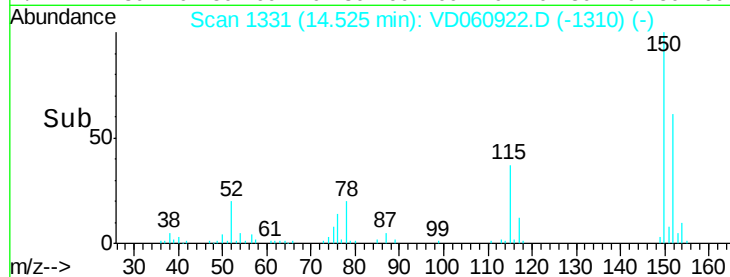
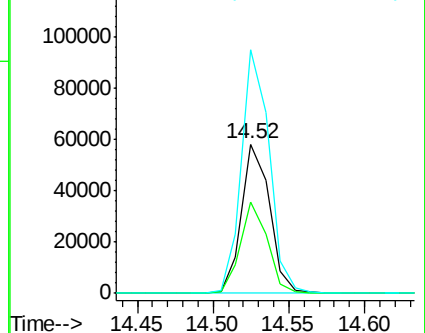
150 163.4 0.0 312.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 18.827 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD060922.D

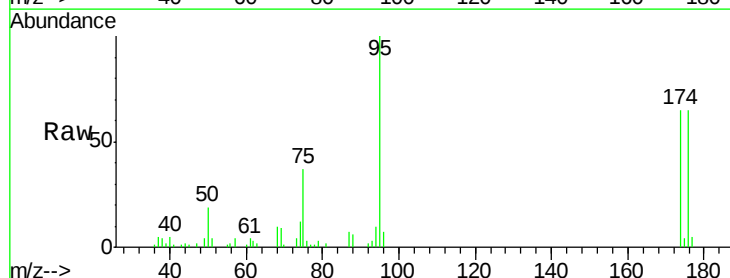
Acq: 4 Mar 2019 14:36

Tgt Ion: 75 Resp: 22954

Ion Ratio Lower Upper

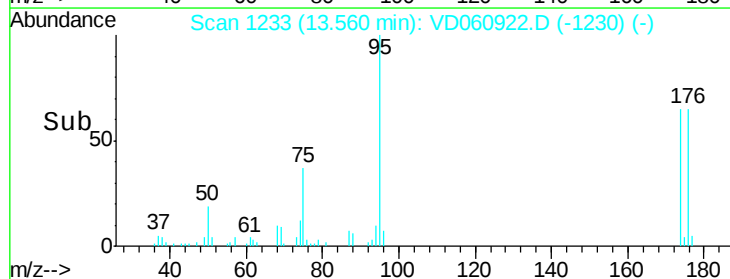
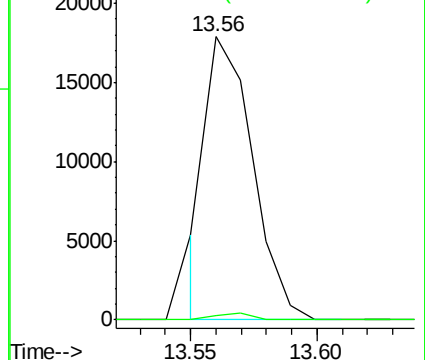
75 100

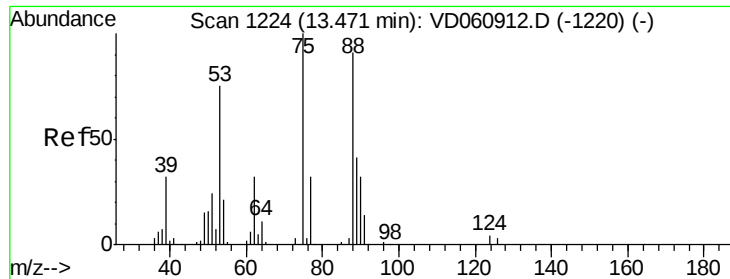
77 1.7 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 72.416 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-033-B

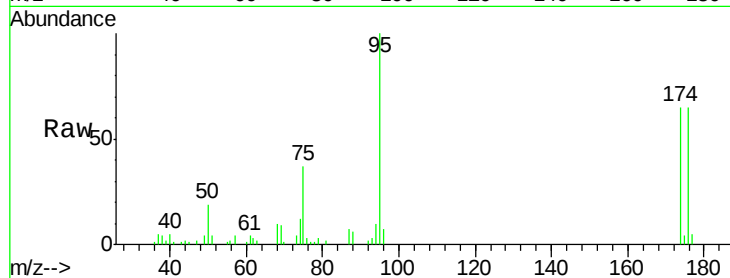
Tot Ion: 75 Resp: 26130

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.6#

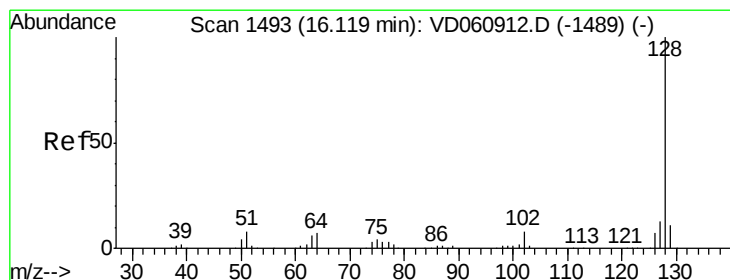
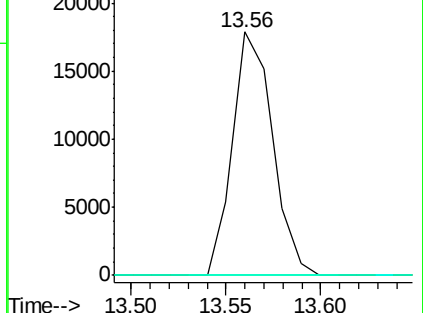
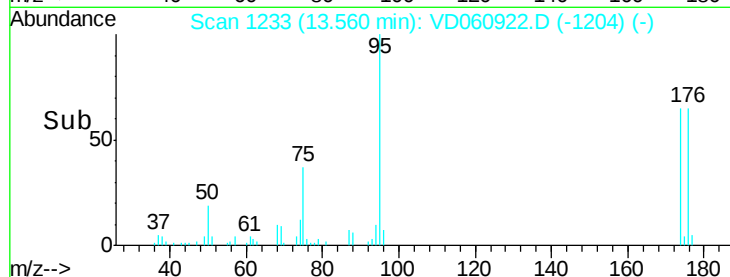
89 0.0 33.0 49.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#95

Naphthalene

Concen: 1.159 ug/l

RT: 16.14 min Scan# 1495

Delta R.T. 0.02 min

Lab File: VD060922.D

Acq: 4 Mar 2019 14:36

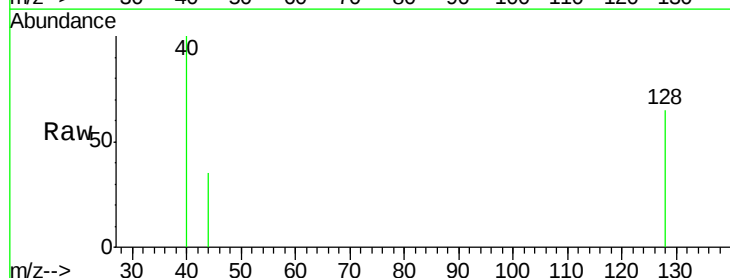
Tgt Ion: 128 Resp: 2345

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

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

