

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD030419\
 Data File : VD060924.D
 Acq On : 4 Mar 2019 15:32
 Operator : VA/AP
 Sample : K1669-02RE
 Misc : 7.46g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-031-A

Quant Time: Mar 05 01:32:39 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

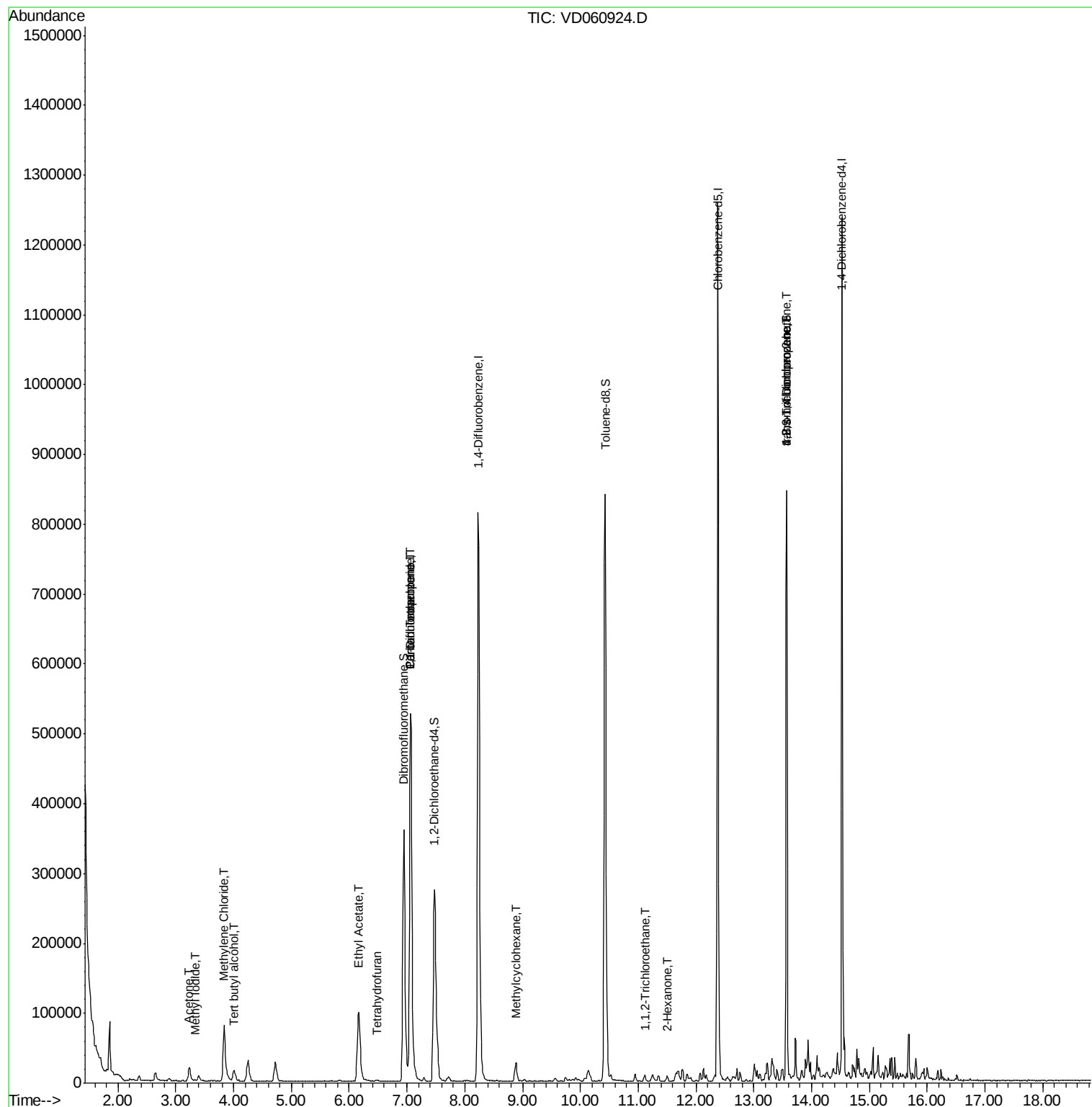
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.07	168	563932	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.23	114	1025523	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	791366	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	290150	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.48	65	221229	47.45	ug/l	0.03
Spiked Amount 50.000			Recovery	=	94.90%	
35) Dibromofluoromethane	6.94	113	342952	41.71	ug/l	0.03
Spiked Amount 50.000			Recovery	=	83.42%	
50) Toluene-d8	10.43	98	722408	35.31	ug/l	0.03
Spiked Amount 50.000			Recovery	=	70.62%	
62) 4-Bromofluorobenzene	13.57	95	278156	35.98	ug/l	0.02
Spiked Amount 50.000			Recovery	=	71.96%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	3.34	142	1560	4.871	ug/l #	84
11) Tert butyl alcohol	4.01	59	15775	45.401	ug/l #	77
16) Acetone	3.23	43	39510	25.383	ug/l	97
20) Methylene Chloride	3.83	84	56846	4.382	ug/l	95
29) Tetrahydrofuran	6.47	42	2149	2.162	ug/l #	42
36) 1,1-Dichloropropene	7.06	75	42313	4.488	ug/l #	45
37) Ethyl Acetate	6.17	43	6361	1.312	ug/l #	1
38) Carbon Tetrachloride	7.06	117	52773	5.210	ug/l #	16
39) Methylcyclohexane	8.88	83	15855	1.538	ug/l	91
55) 1,1,2-Trichloroethane	11.12	97	5437	1.066	ug/l #	15
59) 2-Hexanone	11.50	43	3970	1.376	ug/l #	24
76) 1,2,3-Trichloropropane	13.56	75	86337	18.365	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	96960	69.688	ug/l #	20
89) n-Butylbenzene	14.79	91	4184	Below Cal	#	1

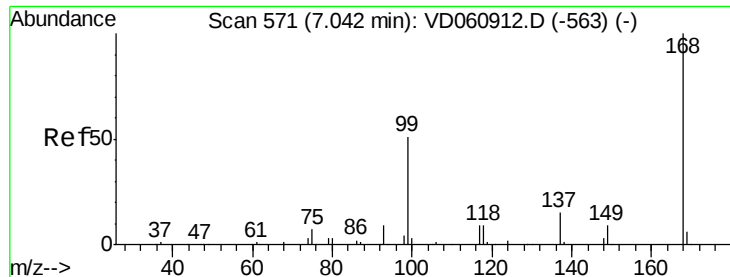
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD030419\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.03 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

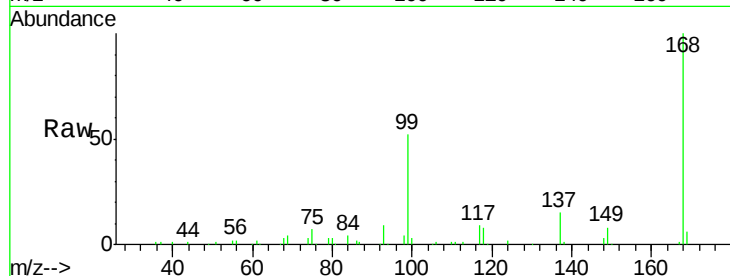
FK-GF-02-031-A

Tot Ion:168 Resp: 563932

Ion Ratio Lower Upper

168 100

99 51.6 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.07

200000

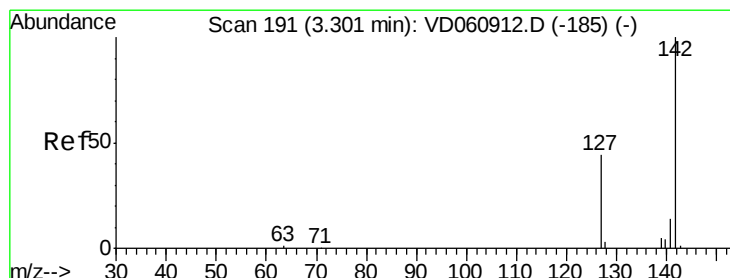
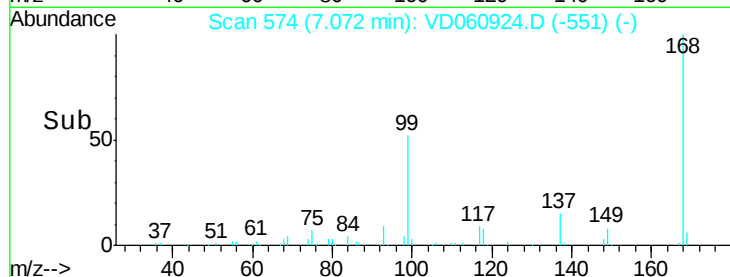
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#10

Methyl Iodide

Concen: 4.871 ug/l

RT: 3.34 min Scan# 195

Delta R.T. 0.04 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

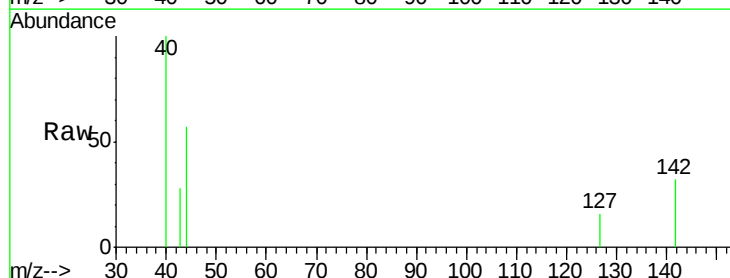
Tgt Ion:142 Resp: 1560

Ion Ratio Lower Upper

142 100

127 50.8 35.0 52.6

141 0.0 11.0 16.4#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

800

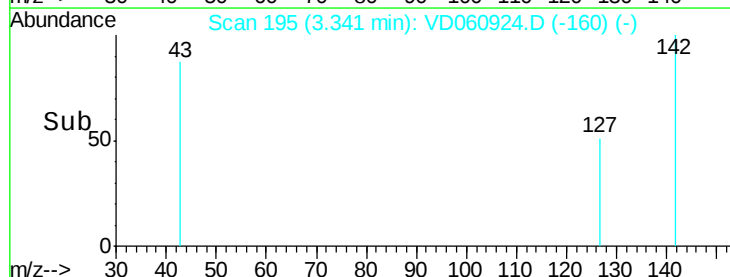
600

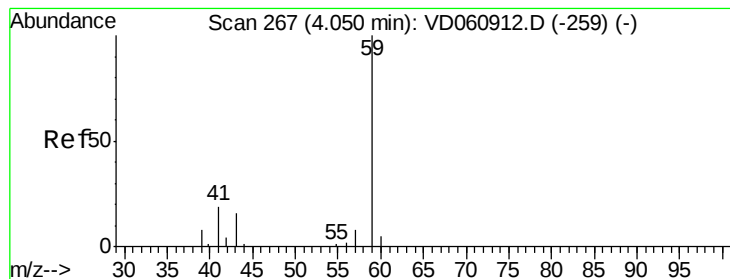
400

200

0

Time--> 3.25 3.30 3.35 3.40





#11

Tert butyl alcohol

Concen: 45.401 ug/l

RT: 4.01 min Scan# 263

Delta R.T. -0.04 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

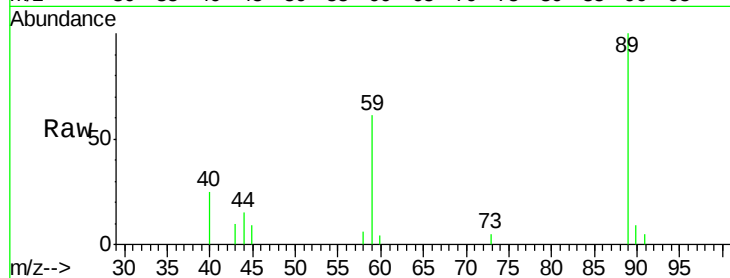
FK-GF-02-031-A

Tot Ion: 59 Resp: 15775

Ion Ratio Lower Upper

59 100

57 0.0 6.5 9.7#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.01

5000

4000

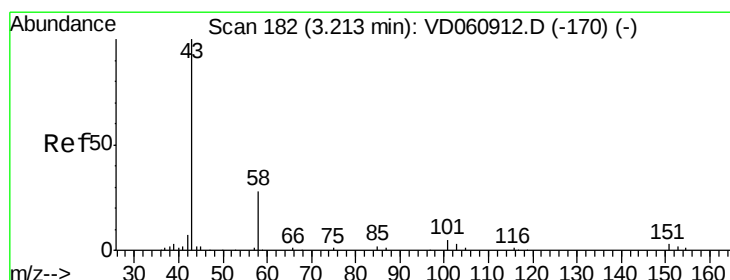
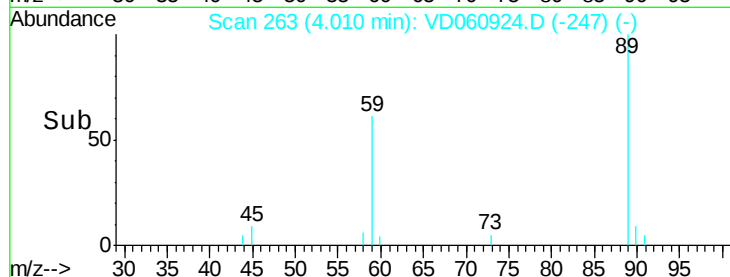
3000

2000

1000

0

Time-->



#16

Acetone

Concen: 25.383 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD060924.D

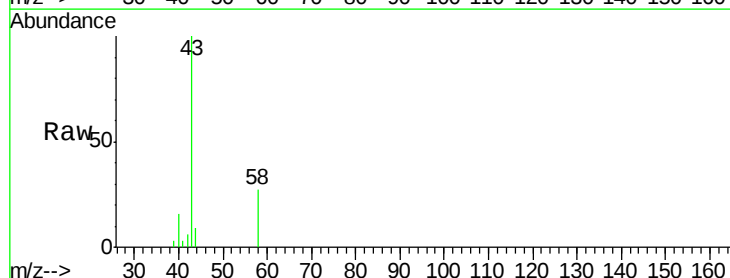
Acq: 4 Mar 2019 15:32

Tgt Ion: 43 Resp: 39510

Ion Ratio Lower Upper

43 100

58 26.9 22.8 34.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.23

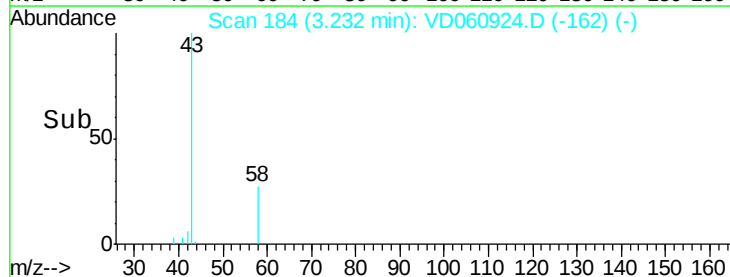
15000

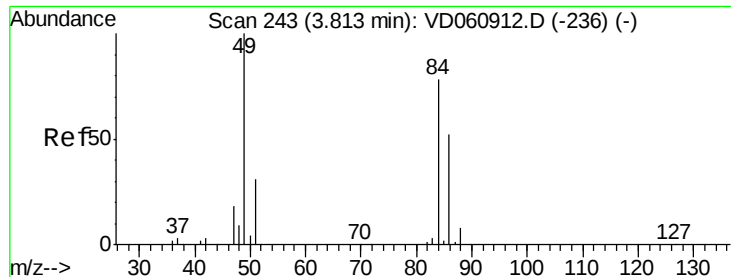
10000

5000

0

Time-->

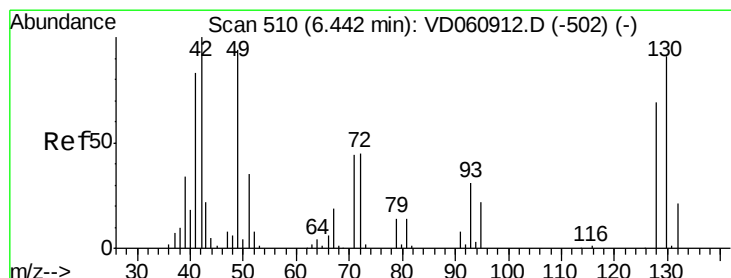
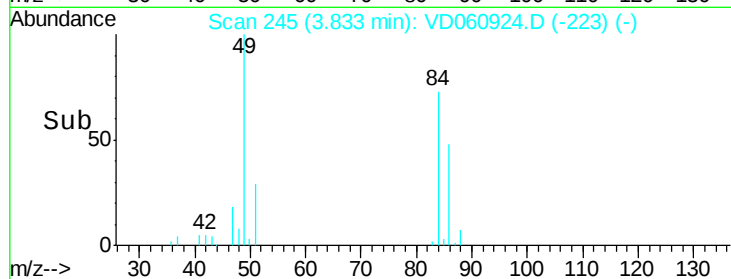
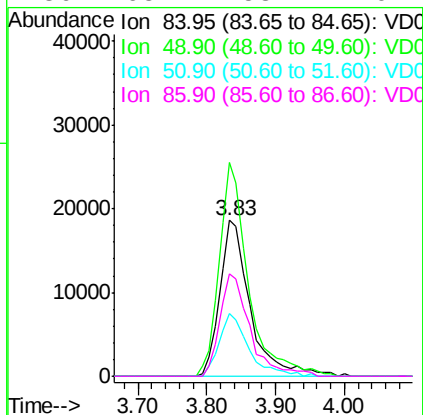
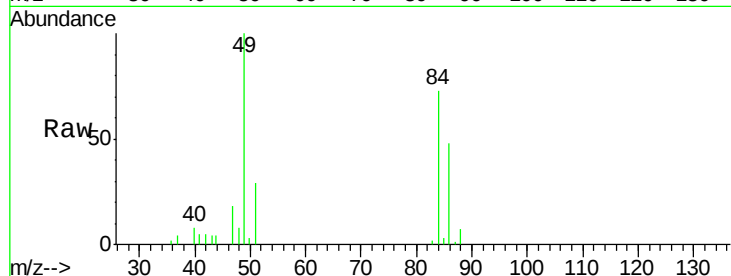




#20
Methvlene Chloride
Concen: 4.382 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.02 min
Lab File: VD060924.D
Acq: 4 Mar 2019 15:32

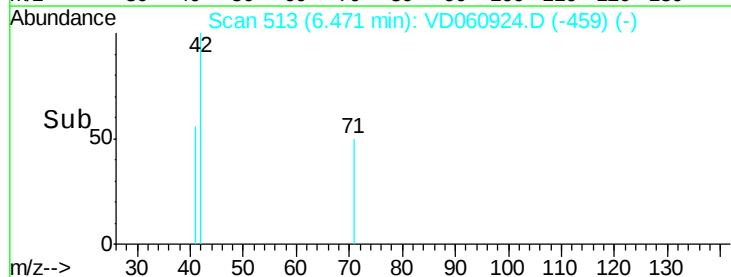
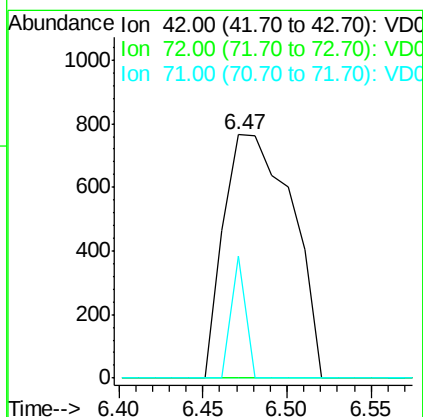
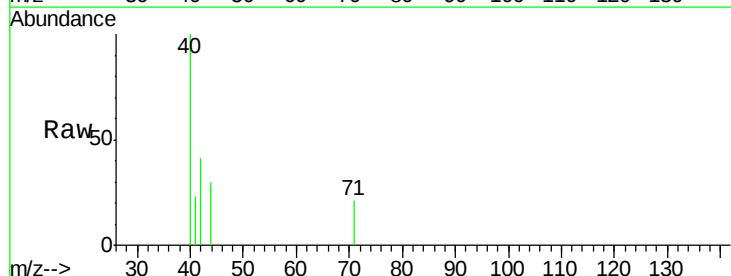
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-031-A

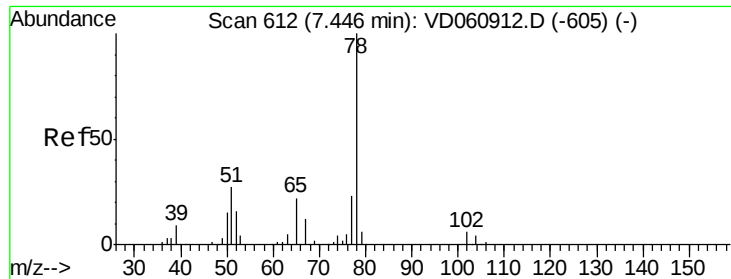
Tot Ion: 84 Resp: 56846
Ion Ratio Lower Upper
84 100
49 136.9 102.4 153.6
51 40.2 31.9 47.9
86 65.4 53.1 79.7



#29
Tetrahydrofuran
Concen: 2.162 ug/l
RT: 6.47 min Scan# 513
Delta R.T. 0.03 min
Lab File: VD060924.D
Acq: 4 Mar 2019 15:32

Tgt Ion: 42 Resp: 2149
Ion Ratio Lower Upper
42 100
72 0.0 33.8 50.6#
71 10.6 33.5 50.3#

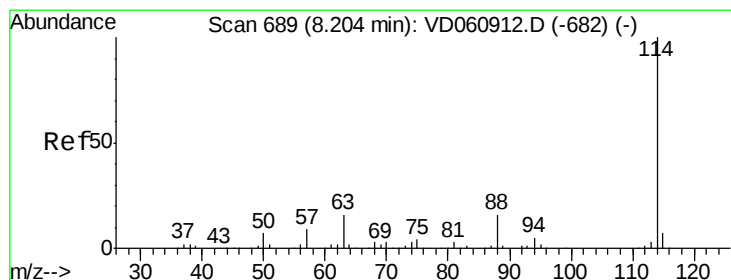
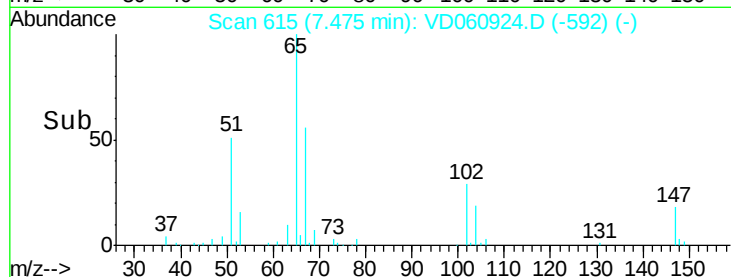
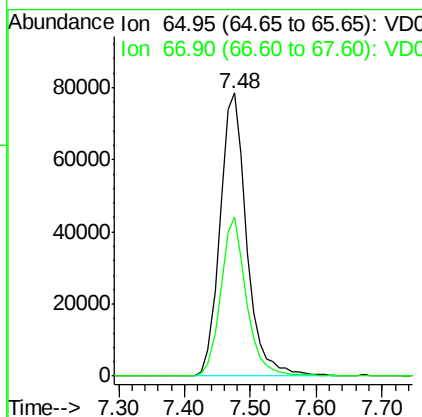
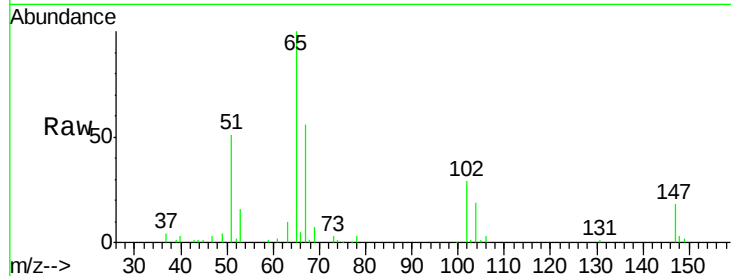




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.48 min Scan# 615
 Delta R.T. 0.03 min
 Lab File: VD060924.D
 Acq: 4 Mar 2019 15:32

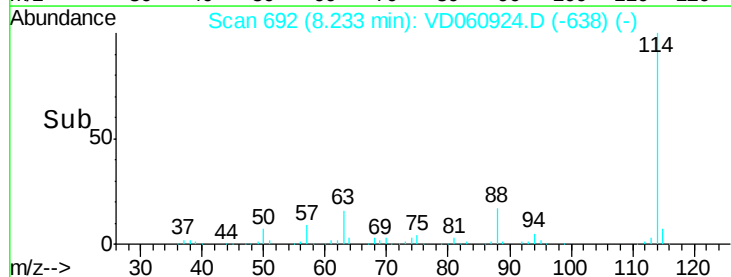
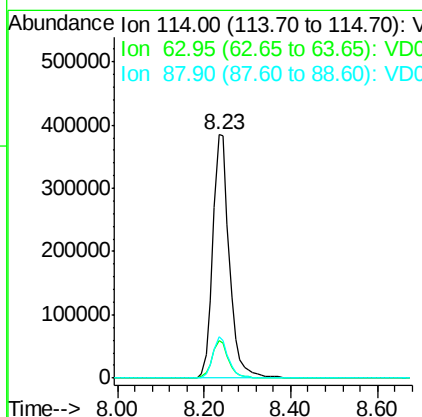
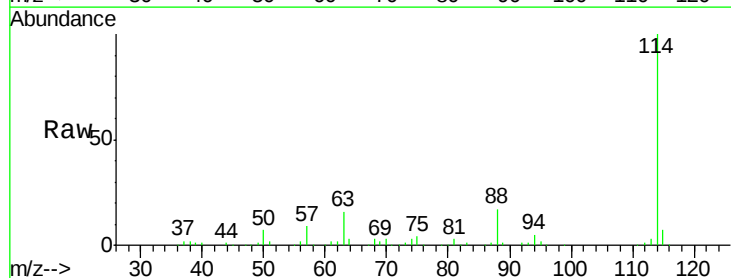
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-031-A

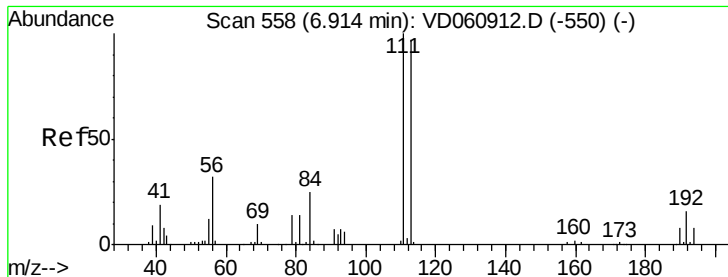
Tot Ion: 65 Resp: 221229
 Ion Ratio Lower Upper
 65 100
 67 56.5 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.03 min
 Lab File: VD060924.D
 Acq: 4 Mar 2019 15:32

Tgt Ion: 114 Resp: 1025523
 Ion Ratio Lower Upper
 114 100
 63 15.6 0.0 32.0
 88 16.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.03 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-031-A

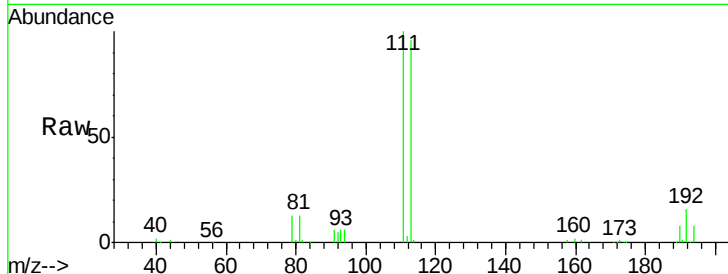
Tot Ion:113 Resp: 342952

Ion Ratio Lower Upper

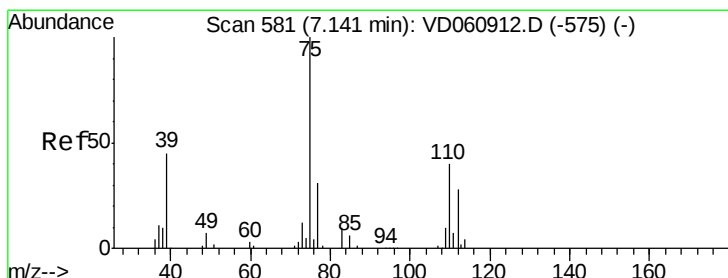
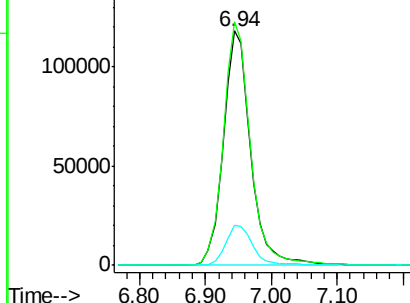
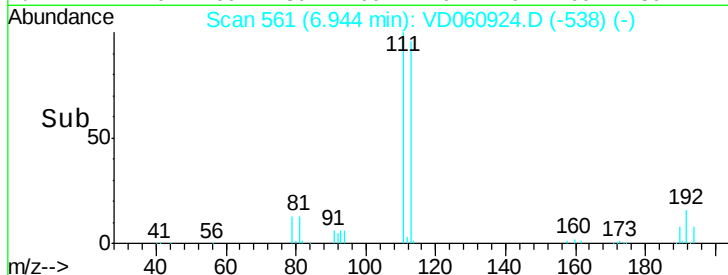
113 100

111 103.8 82.6 124.0

192 16.9 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: 4.488 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.08 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

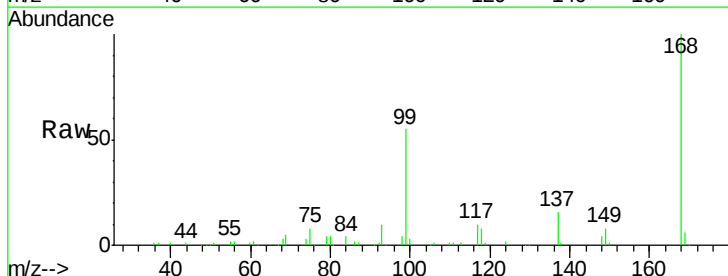
Tgt Ion: 75 Resp: 42313

Ion Ratio Lower Upper

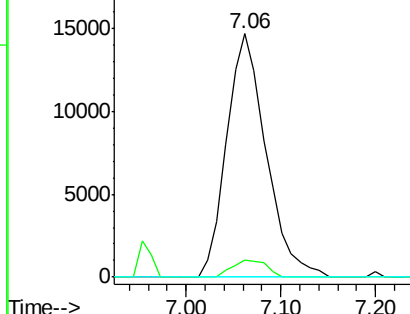
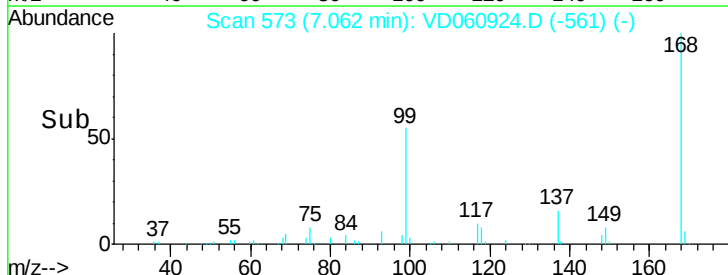
75 100

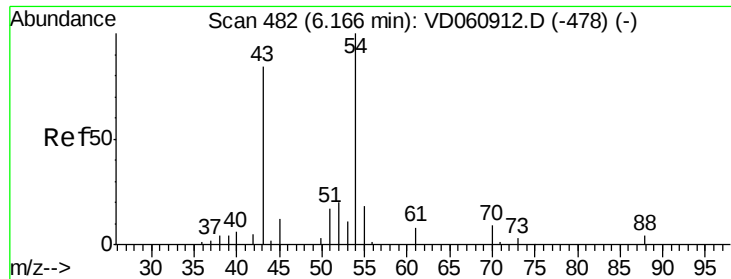
110 7.0 19.9 59.7#

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

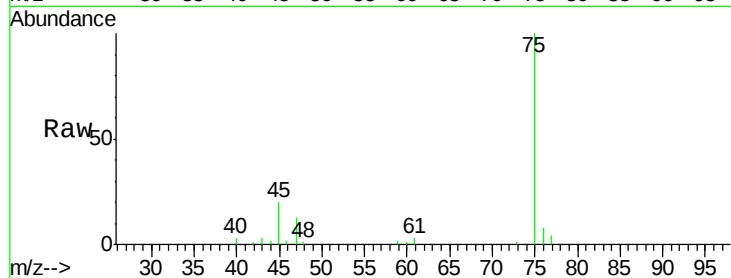




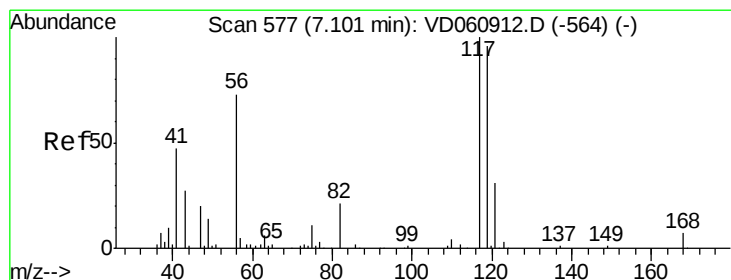
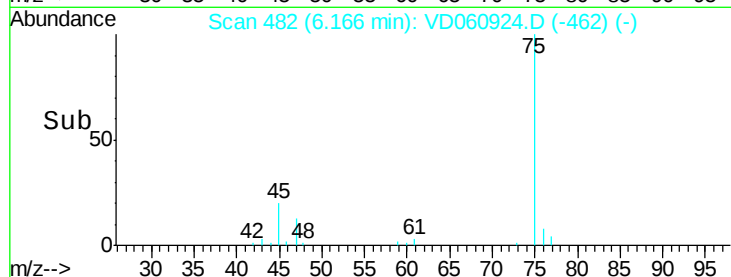
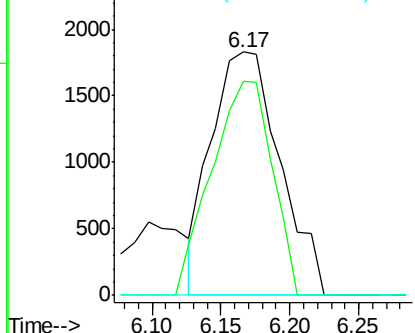
#37
Ethyl Acetate
Concen: 1.312 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.00 min
Lab File: VD060924.D
Acq: 4 Mar 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-031-A

Tot Ion: 43 Resp: 6361
Ion Ratio Lower Upper
43 100
61 87.8 12.1 18.1#
70 0.0 7.3 10.9#

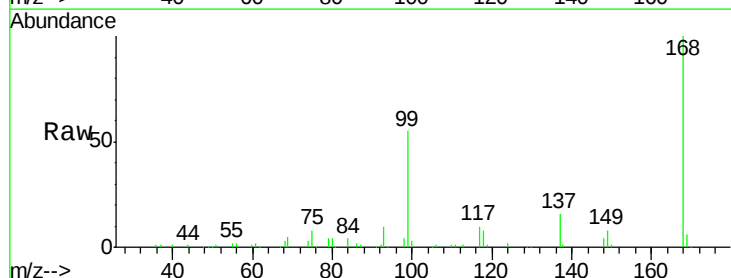


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

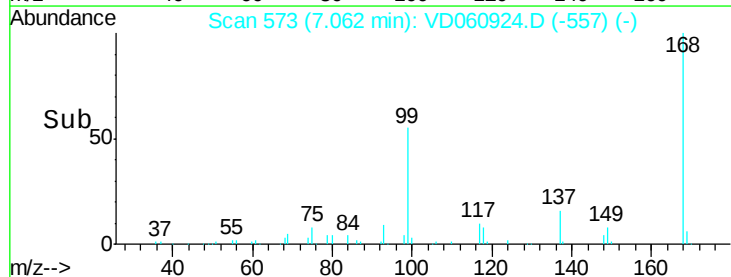
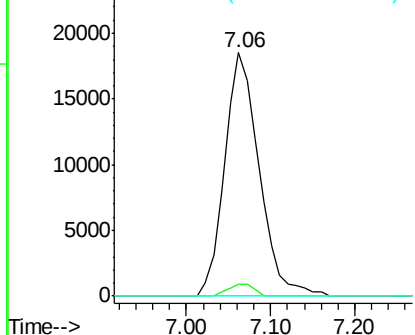


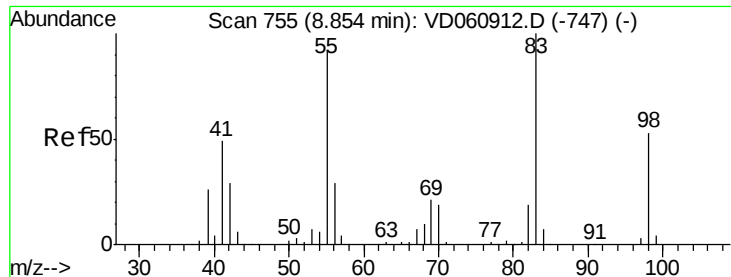
#38
Carbon Tetrachloride
Concen: 5.210 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.04 min
Lab File: VD060924.D
Acq: 4 Mar 2019 15:32

Tgt Ion: 117 Resp: 52773
Ion Ratio Lower Upper
117 100
119 5.1 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

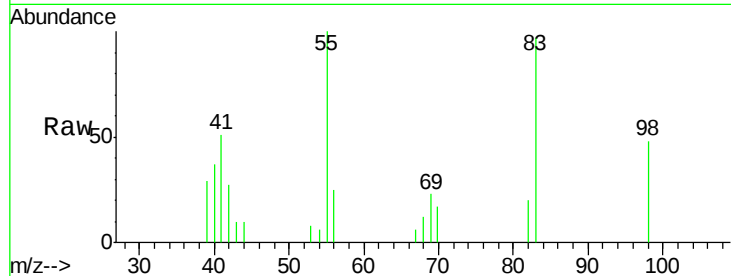




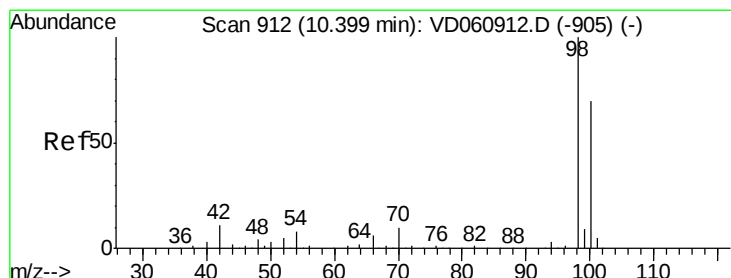
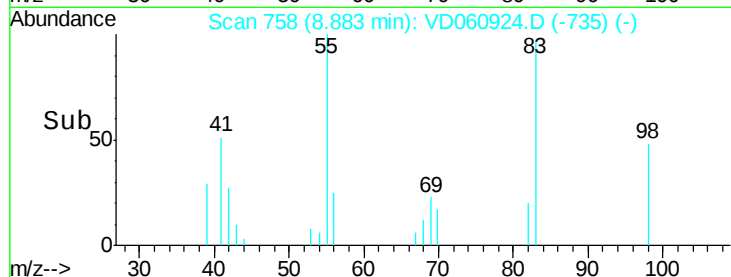
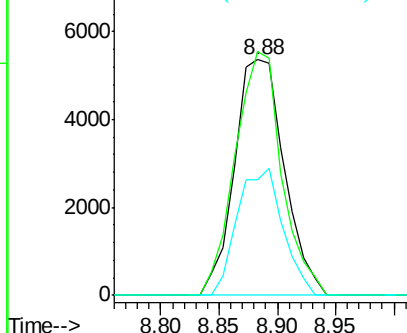
#39
Methylcyclohexane
Concen: 1.538 ug/l
RT: 8.88 min Scan# 758
Delta R.T. 0.03 min
Lab File: VD060924.D
Acq: 4 Mar 2019 15:32

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-031-A

Tot Ion: 83 Resp: 15855
Ion Ratio Lower Upper
83 100
55 103.4 73.8 110.8
98 49.1 42.4 63.6

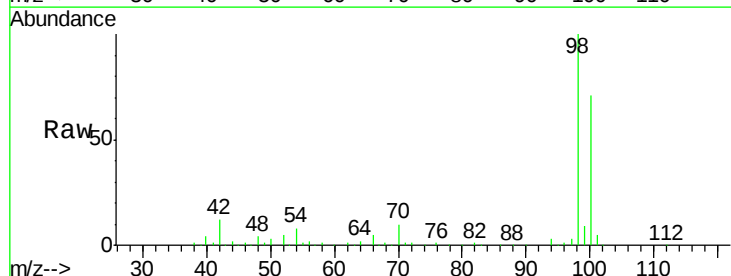


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

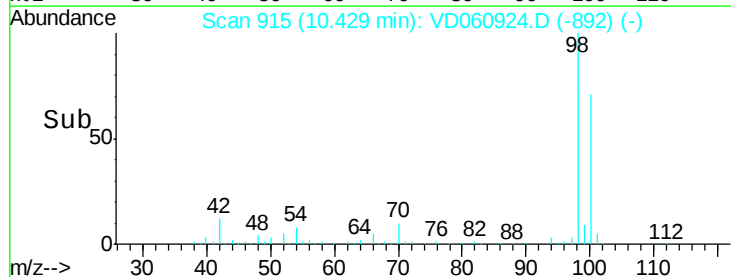
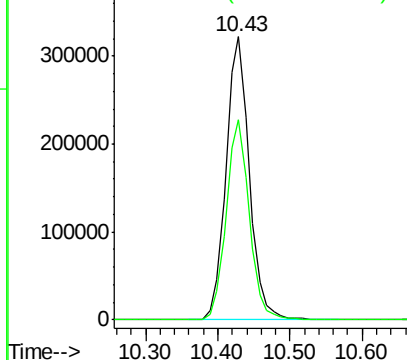


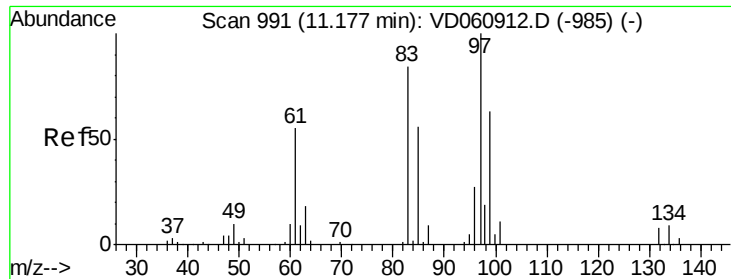
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.03 min
Lab File: VD060924.D
Acq: 4 Mar 2019 15:32

Tgt Ion: 98 Resp: 722408
Ion Ratio Lower Upper
98 100
100 70.5 57.0 85.4



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

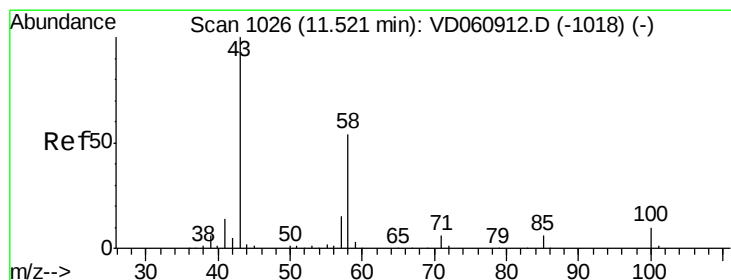
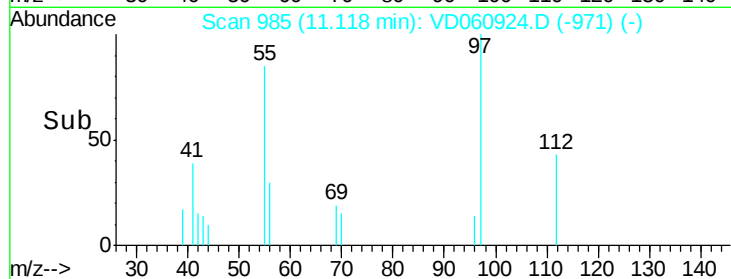
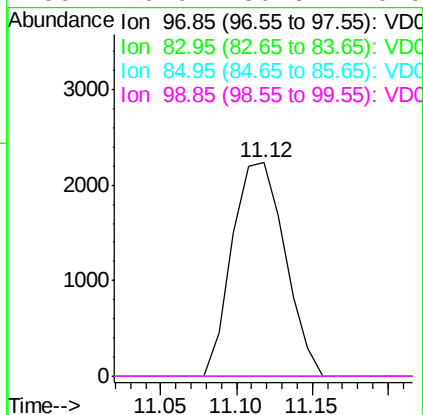
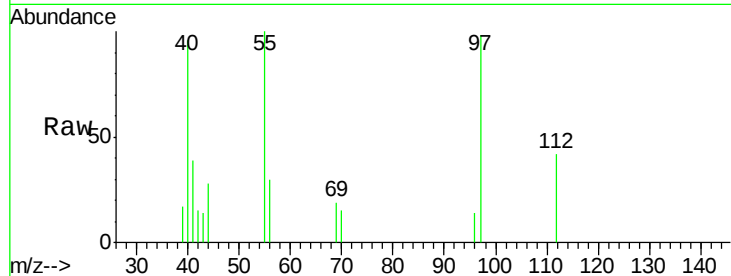




#55
 1,1,2-Trichloroethane
 Concen: 1.066 ug/l
 RT: 11.12 min Scan# 985
 Delta R.T. -0.06 min
 Lab File: VD060924.D
 Acq: 4 Mar 2019 15:32

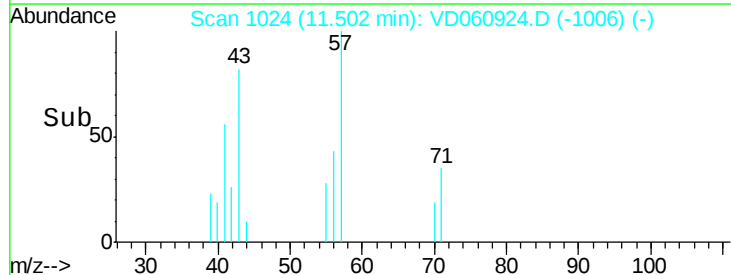
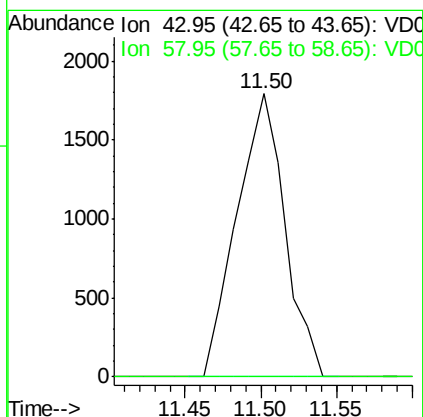
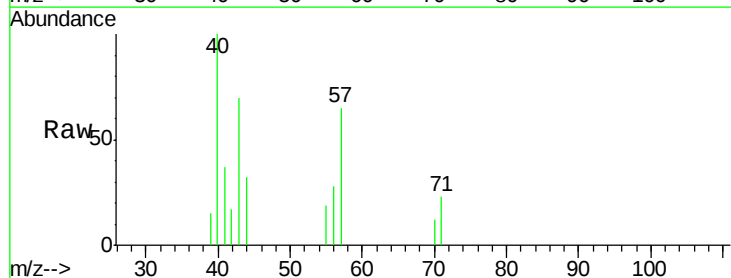
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-031-A

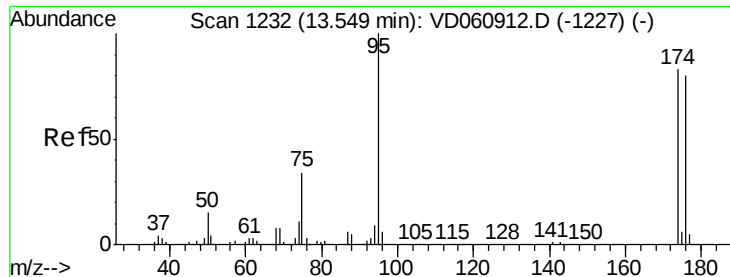
Tot Ion: 97 Resp: 5437
 Ion Ratio Lower Upper
 97 100
 83 0.0 67.5 101.3#
 85 0.0 44.9 67.3#
 99 0.0 50.6 76.0#



#59
 2-Hexanone
 Concen: 1.376 ug/l
 RT: 11.50 min Scan# 1024
 Delta R.T. -0.02 min
 Lab File: VD060924.D
 Acq: 4 Mar 2019 15:32

Tgt Ion: 43 Resp: 3970
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.2 81.5#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-031-A

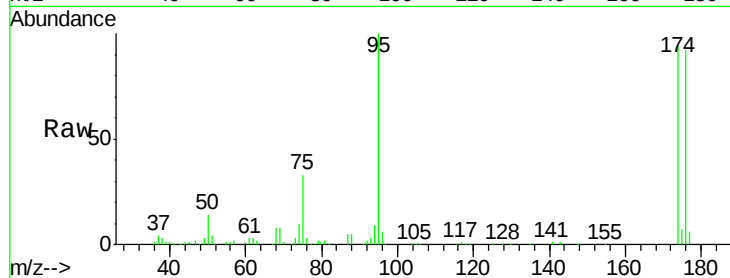
Tot Ion: 95 Resp: 278156

Ion Ratio Lower Upper

95 100

174 93.7 0.0 165.6

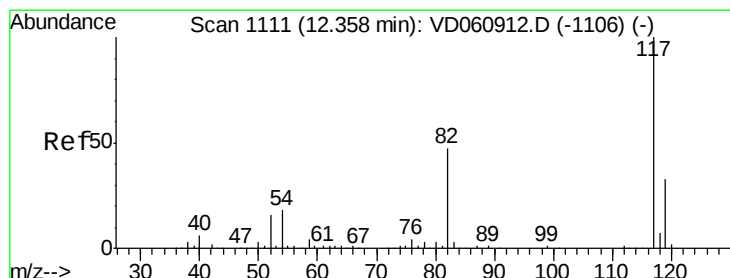
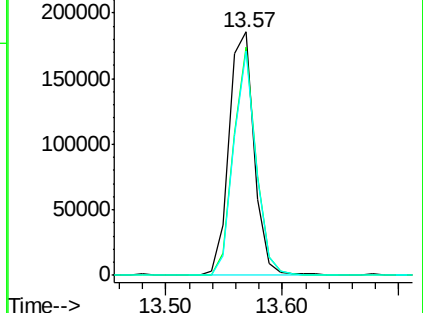
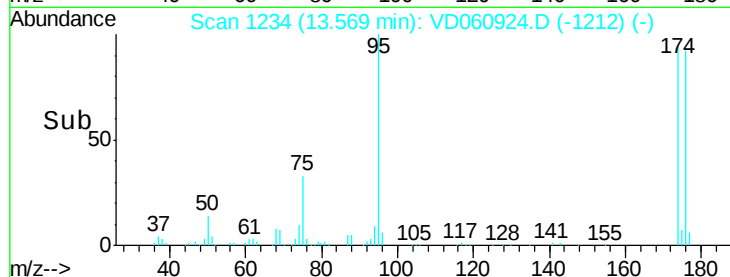
176 92.3 0.0 160.6



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

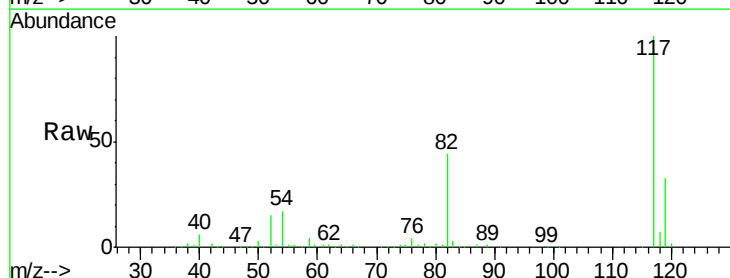
Tgt Ion: 117 Resp: 791366

Ion Ratio Lower Upper

117 100

82 44.4 37.5 56.3

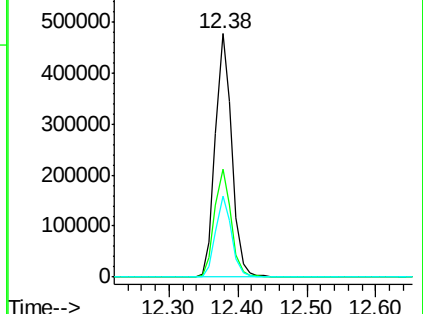
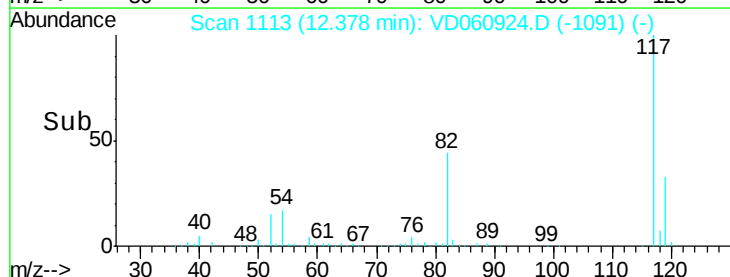
119 33.1 26.2 39.2

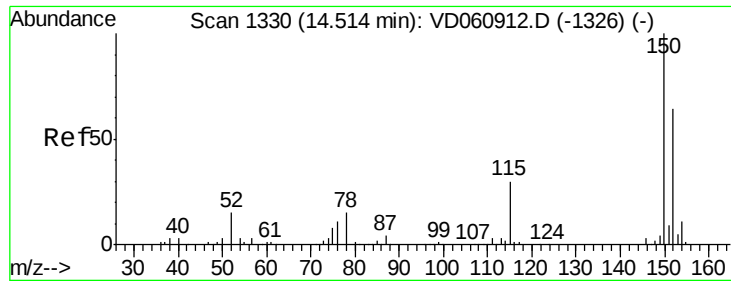


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-031-A

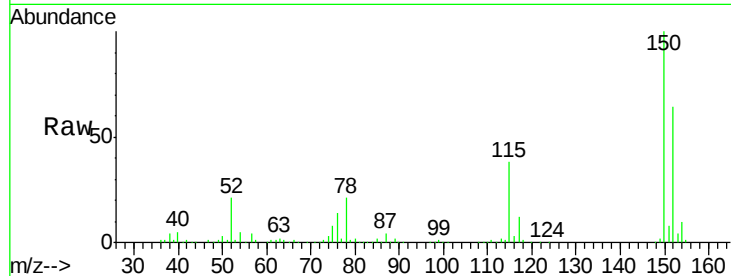
Tot Ion:152 Resp: 290150

Ion Ratio Lower Upper

152 100

115 60.0 27.6 82.8

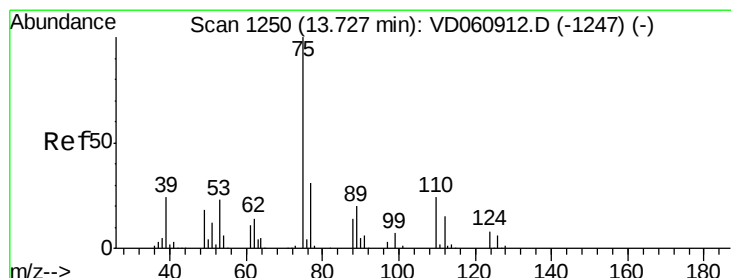
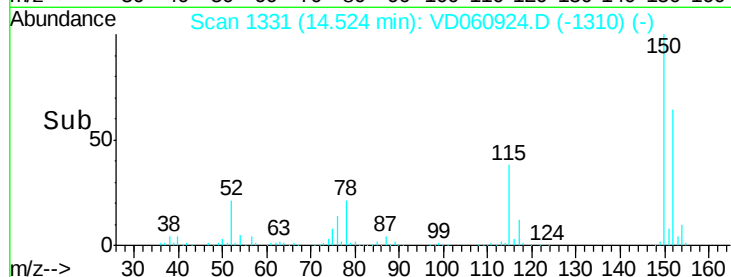
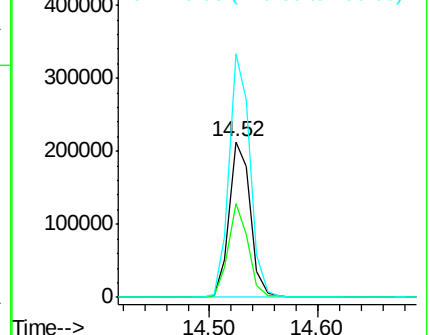
150 156.4 0.0 312.8



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: 18.365 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD060924.D

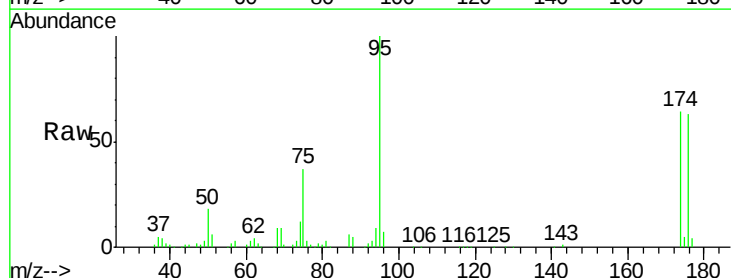
Acq: 4 Mar 2019 15:32

Tgt Ion: 75 Resp: 86337

Ion Ratio Lower Upper

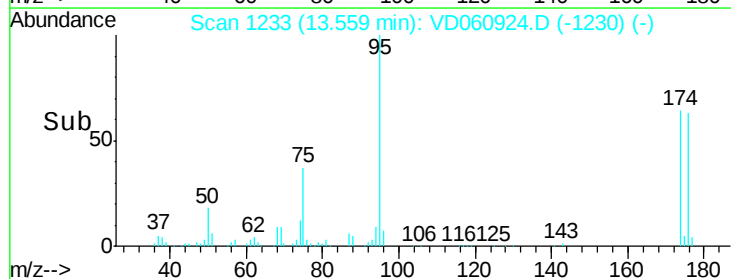
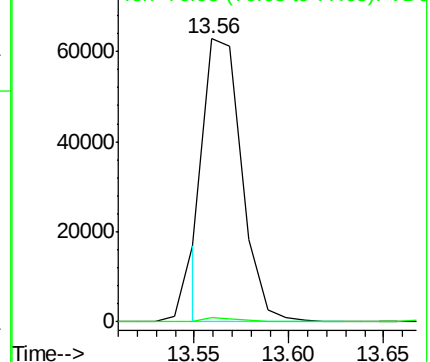
75 100

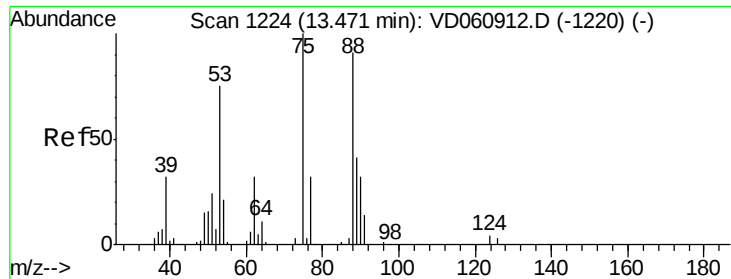
77 1.7 16.2 48.6#



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: 69.688 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD060924.D

Acq: 4 Mar 2019 15:32

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-031-A

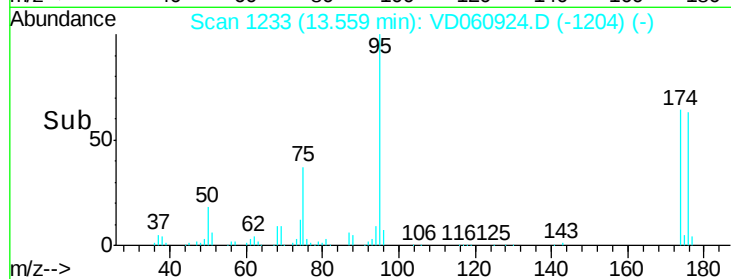
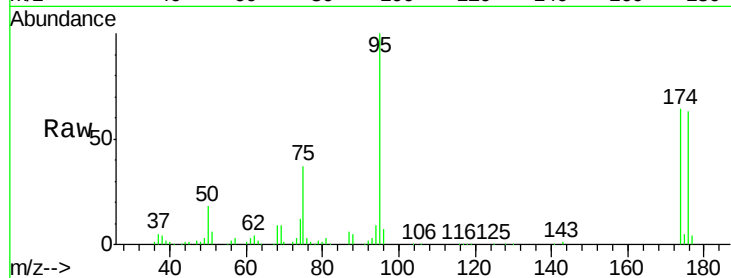
Tot Ion: 75 Resp: 96960

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

