

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041919\
 Data File : VD061907.D
 Acq On : 19 Apr 2019 13:47
 Operator : VA/AP
 Sample : K2444-02RE
 Misc : 6.93g/5ml/MSVOA_D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-037-A

Quant Time: Apr 19 16:10:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	8452	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	20800	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	15830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	6731	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	7345	103.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	207.38%	
35) Dibromofluoromethane	6.94	113	7515	47.82	ug/l	0.01
Spiked Amount	50.000		Recovery	=	95.64%	
50) Toluene-d8	10.42	98	16776	45.06	ug/l	0.01
Spiked Amount	50.000		Recovery	=	90.12%	
62) 4-Bromofluorobenzene	13.56	95	6701	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	

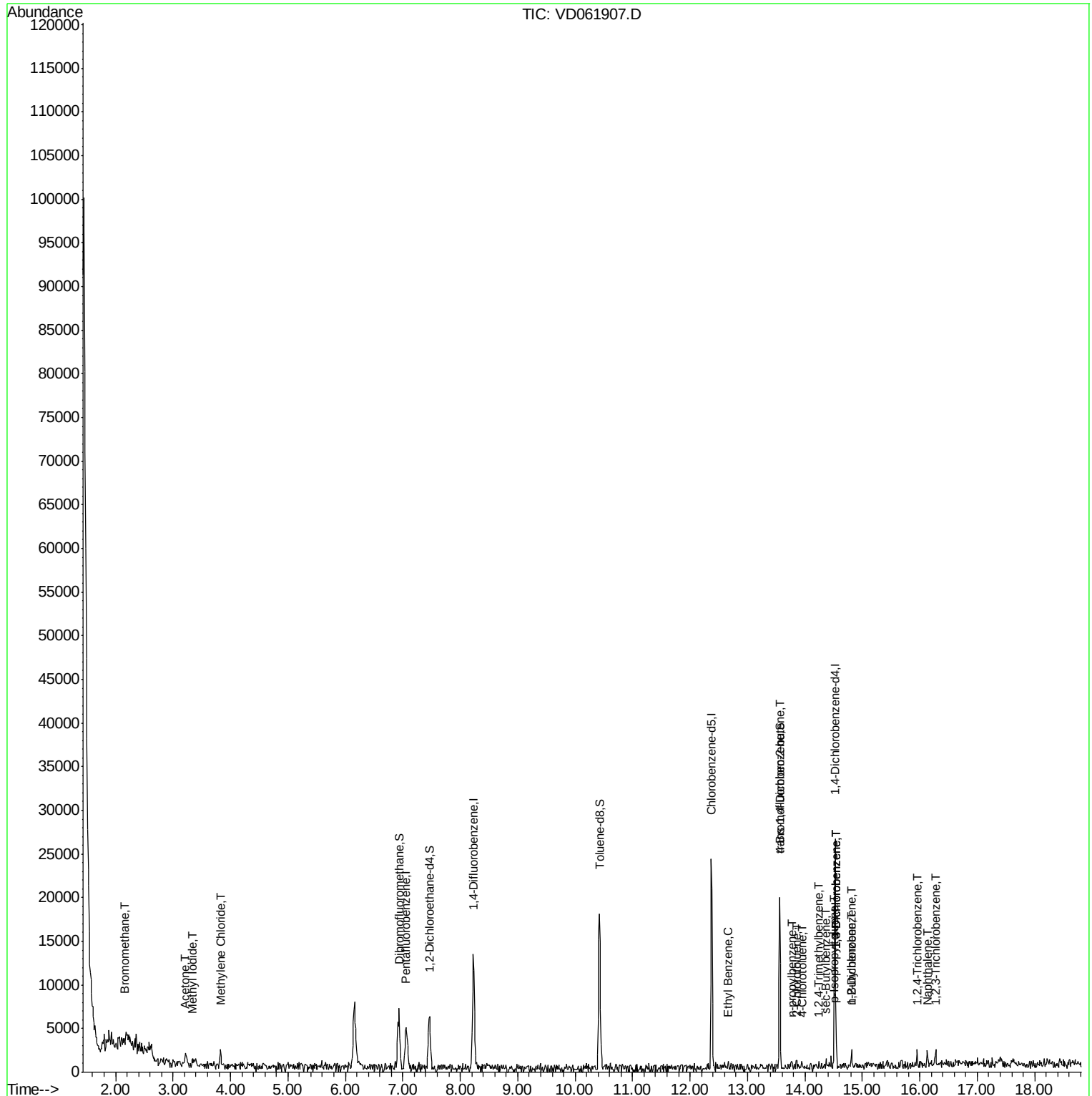
Target Compounds

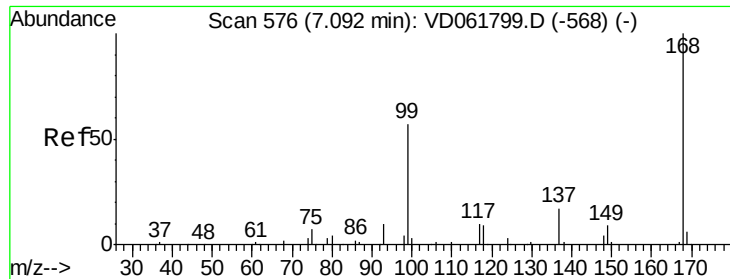
						Qvalue
5) Bromomethane	2.15	94	483	31.732	ug/l #	12
10) Methyl Iodide	3.34	142	2477	18.803	ug/l #	37
16) Acetone	3.22	43	2476	141.823	ug/l #	50
20) Methylene Chloride	3.83	84	1214	10.352	ug/l #	81
67) Ethyl Benzene	12.67	91	529	1.120	ug/l #	44
78) n-propylbenzene	13.78	91	808	1.602	ug/l #	54
79) 2-Chlorotoluene	13.85	91	532	1.806	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.56	75	2929	98.759	ug/l #	16
82) 4-Chlorotoluene	13.96	91	482	1.429	ug/l #	37
84) 1,2,4-Trimethylbenzene	14.25	105	427	1.226	ug/l #	30
85) sec-Butylbenzene	14.37	105	665	1.582	ug/l #	60
86) p-Isopropyltoluene	14.50	119	406	1.032	ug/l #	52
87) 1,3-Dichlorobenzene	14.55	146	631	2.915	ug/l	67
88) 1,4-Dichlorobenzene	14.55	146	631	2.949	ug/l	68
89) n-Butylbenzene	14.80	91	596	1.712	ug/l #	28
91) 1,2-Dichlorobenzene	14.81	146	474	2.614	ug/l #	39
93) 1,2,4-Trichlorobenzene	15.95	180	874	8.776	ug/l #	65
95) Naphthalene	16.13	128	1713	11.222	ug/l #	70
96) 1,2,3-Trichlorobenzene	16.28	180	650	11.453	ug/l #	82

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

Instrument :

MSVOA_D

ClientSampleId :

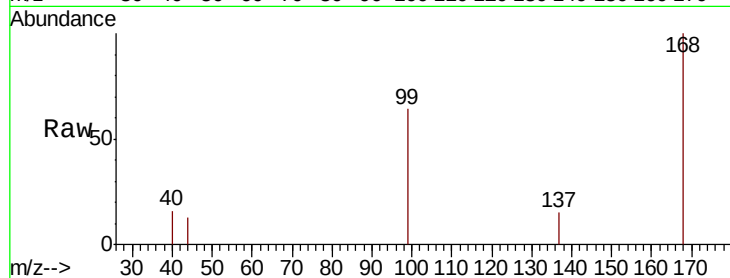
FK-GF-02-037-A

Tgt Ion:168 Resp: 8452

Ion Ratio Lower Upper

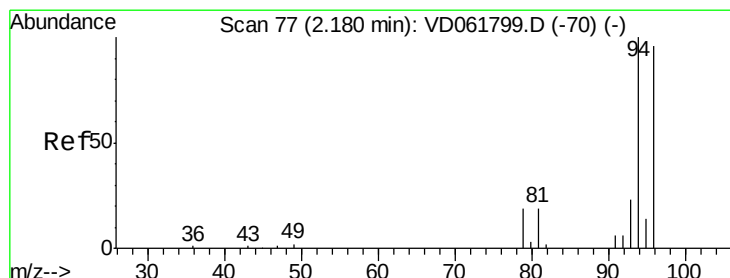
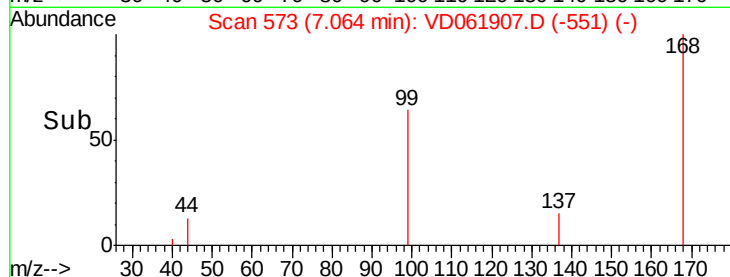
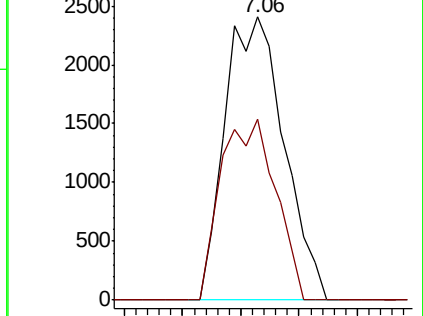
168 100

99 64.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 31.732 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.00 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

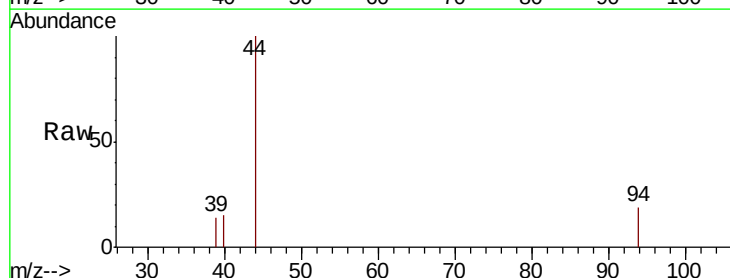
Tgt Ion: 94 Resp: 483

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

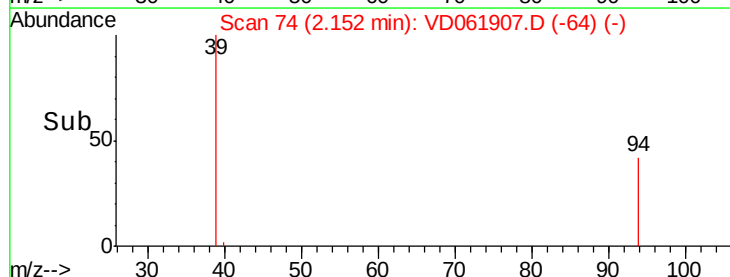
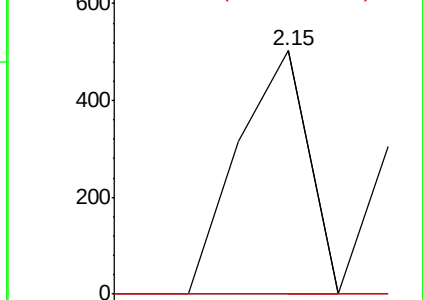
93 0.0 18.5 27.7#

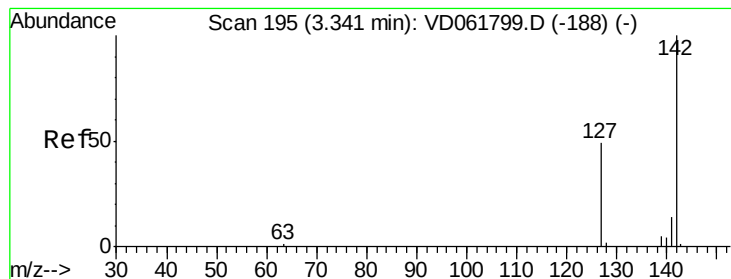


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#10

Methyl Iodide

Concen: 18.803 ug/l

RT: 3.34 min Scan# 195

Delta R.T. 0.03 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-037-A

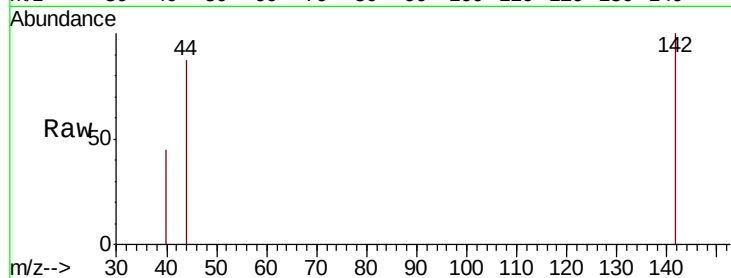
Tgt Ion: 142 Resp: 2477

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

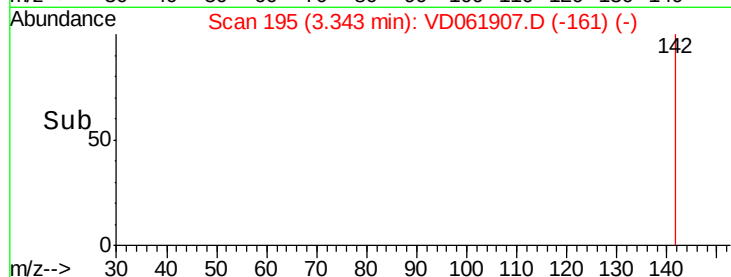
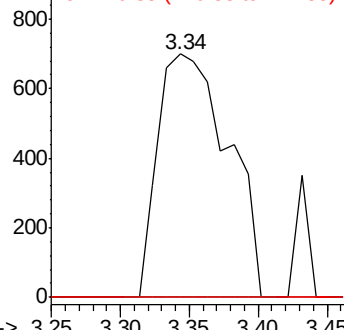
141 0.0 11.4 17.0#



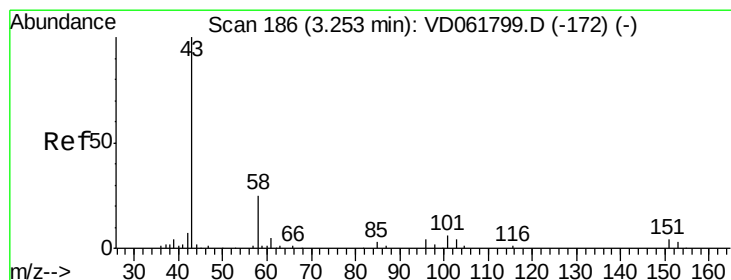
Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



Time-->



#16

Acetone

Concen: 141.823 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD061907.D

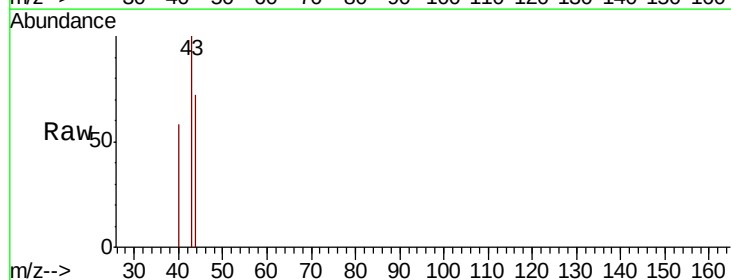
Acq: 19 Apr 2019 13:47

Tgt Ion: 43 Resp: 2476

Ion Ratio Lower Upper

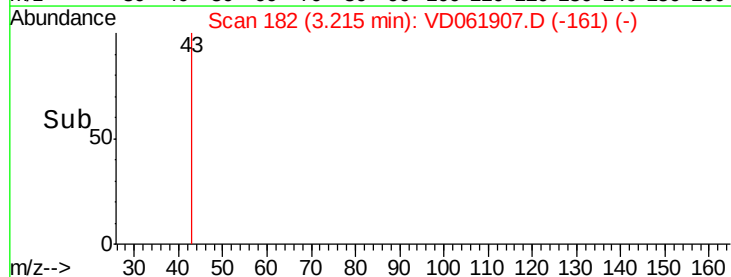
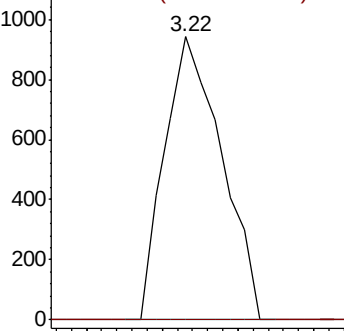
43 100

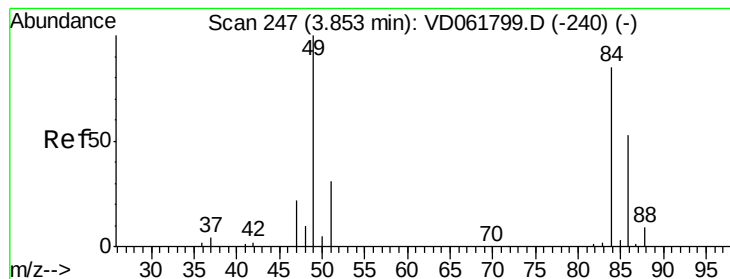
58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 57.95 (57.65 to 58.65): V





#20

Methylene Chloride

Concen: 10.352 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.01 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-037-A

Tgt Ion: 84 Resp: 1214

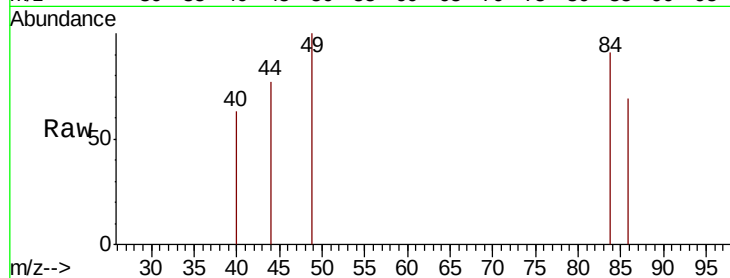
Ion Ratio Lower Upper

84 100

49 109.3 94.0 141.0

51 0.0 29.0 43.4#

86 75.7 49.8 74.6#

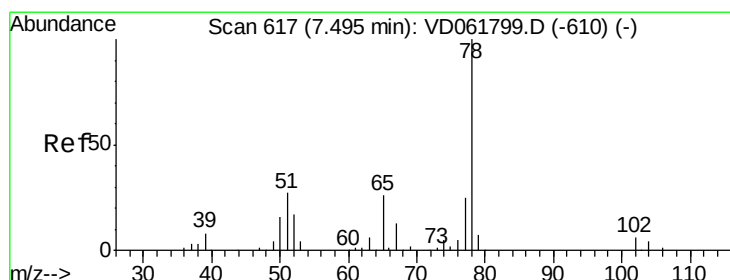
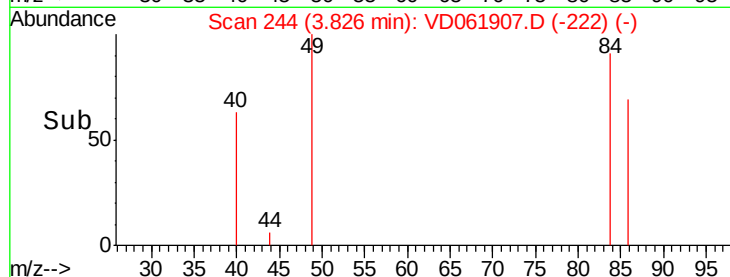
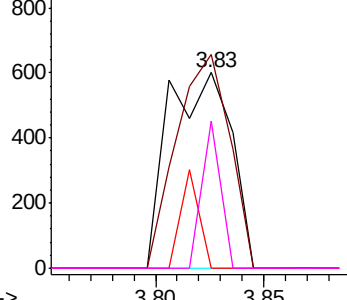


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD061907.D

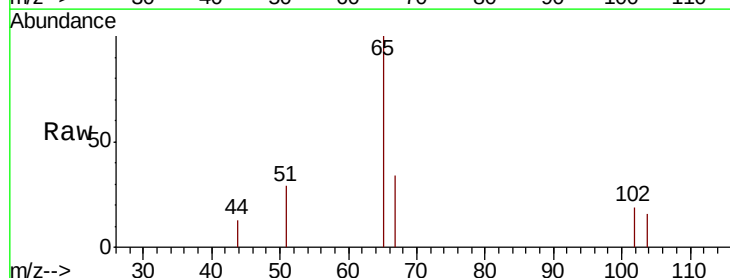
Acq: 19 Apr 2019 13:47

Tgt Ion: 65 Resp: 7345

Ion Ratio Lower Upper

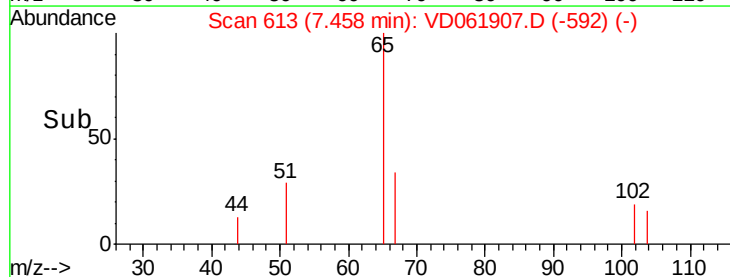
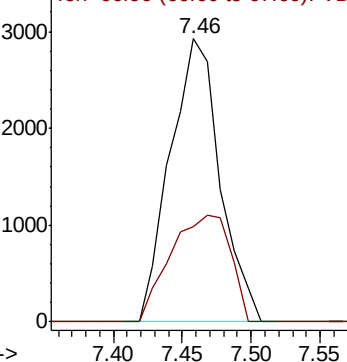
65 100

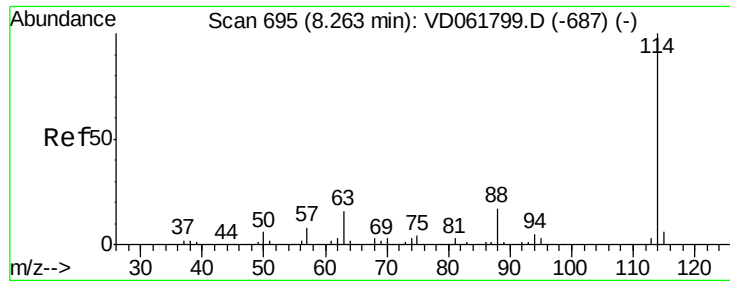
67 33.8 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

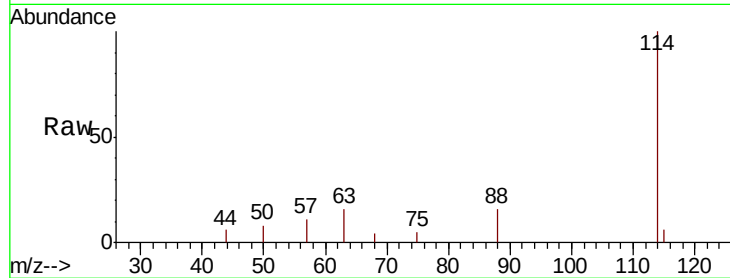




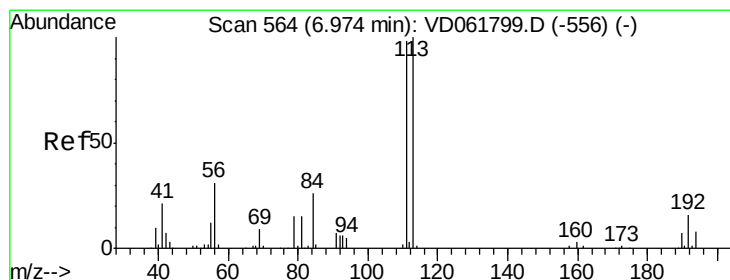
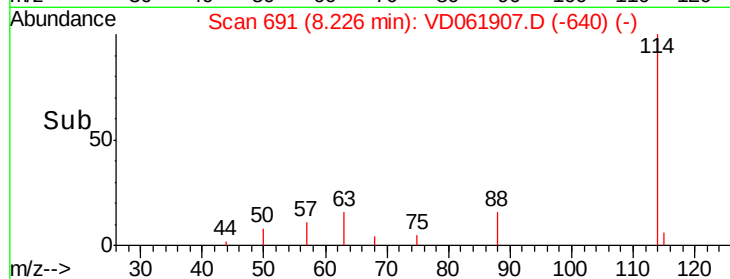
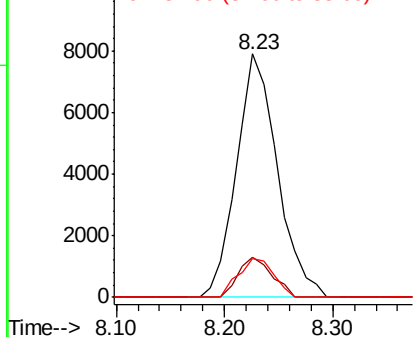
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.00 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-037-A

Tgt Ion:114 Resp: 20800
 Ion Ratio Lower Upper
 114 100
 63 16.3 0.0 32.4
 88 15.7 0.0 33.6

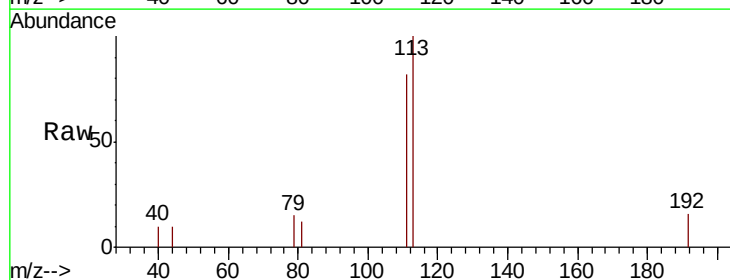


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

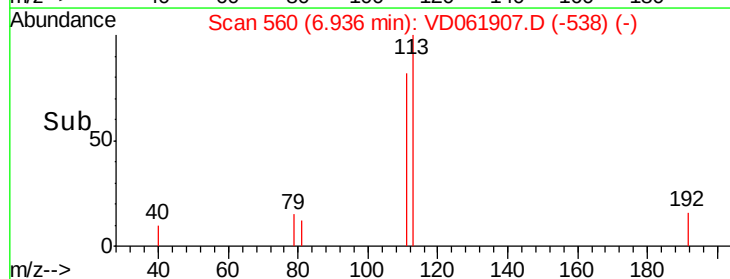
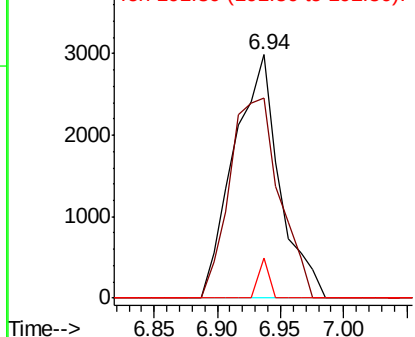


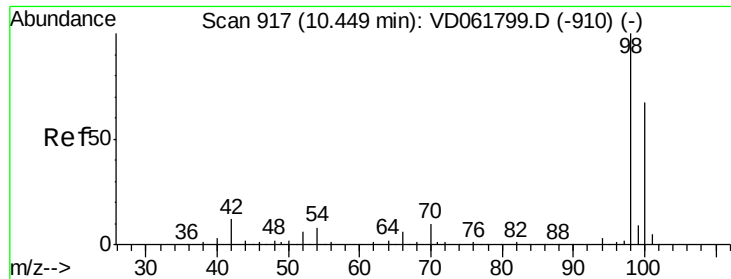
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

Tgt Ion:113 Resp: 7515
 Ion Ratio Lower Upper
 113 100
 111 82.4 78.5 117.7
 192 16.4 13.0 19.4



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

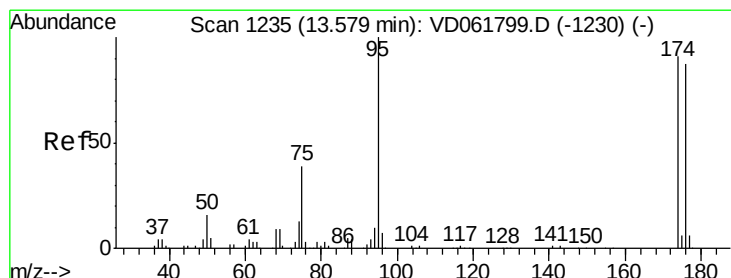
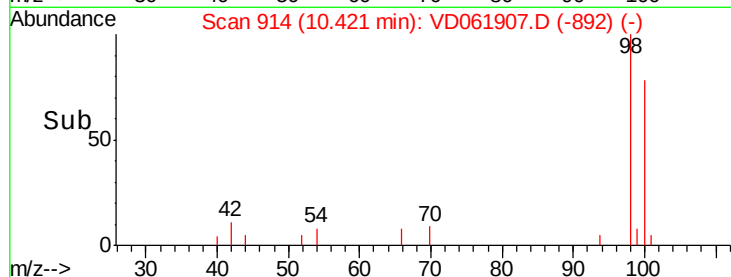
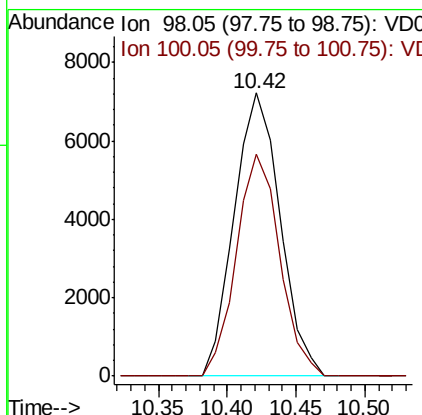
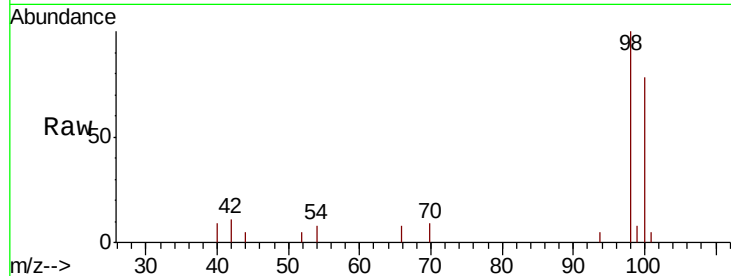




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061907.D
Acq: 19 Apr 2019 13:47

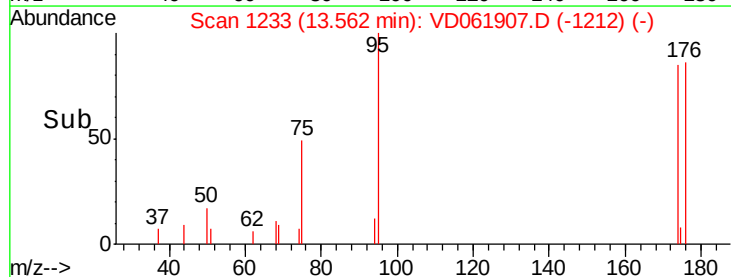
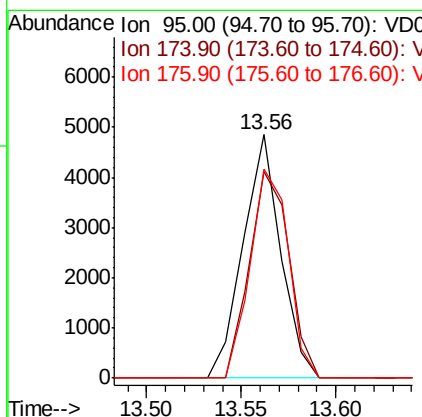
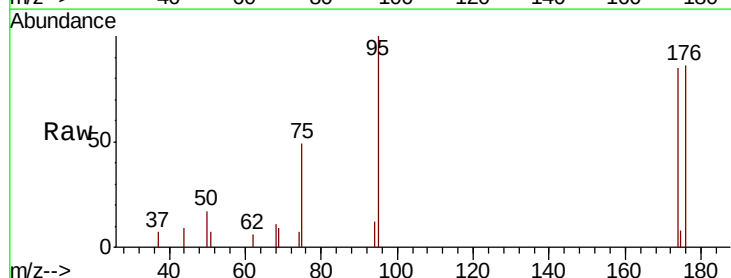
Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-037-A

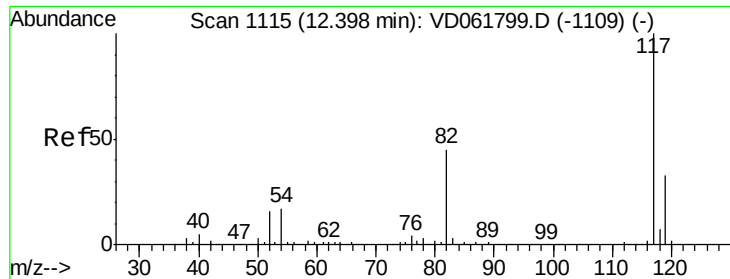
Tgt Ion: 98 Resp: 16776
Ion Ratio Lower Upper
98 100
100 78.3 53.8 80.8



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD061907.D
Acq: 19 Apr 2019 13:47

Tgt Ion: 95 Resp: 6701
Ion Ratio Lower Upper
95 100
174 84.9 0.0 181.8
176 85.8 0.0 174.4

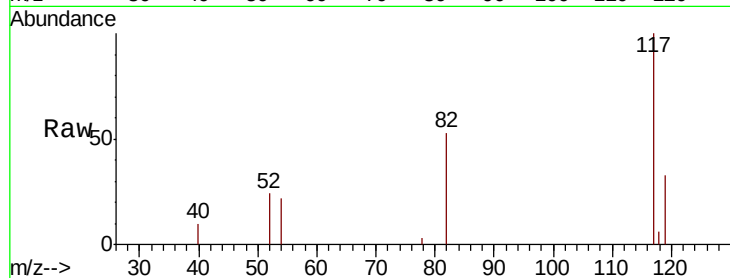




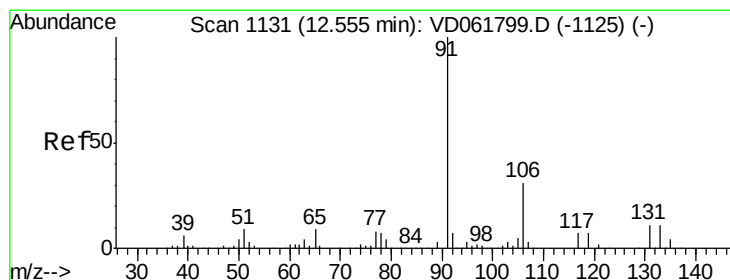
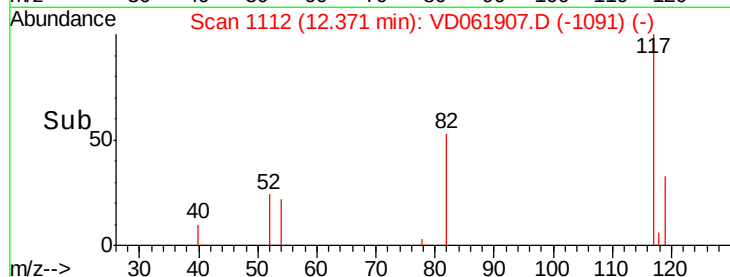
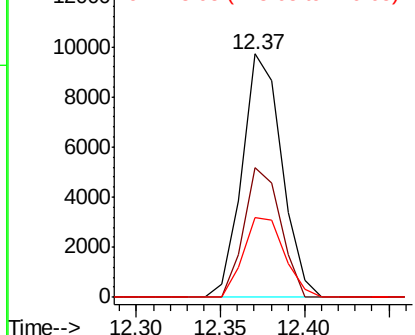
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD061907.D
Acq: 19 Apr 2019 13:47

Instrument :
MSVOA_D
ClientSampleId :
FK-GF-02-037-A

Tgt Ion: 117 Resp: 15830
Ion Ratio Lower Upper
117 100
82 53.4 36.2 54.2
119 32.6 26.2 39.4

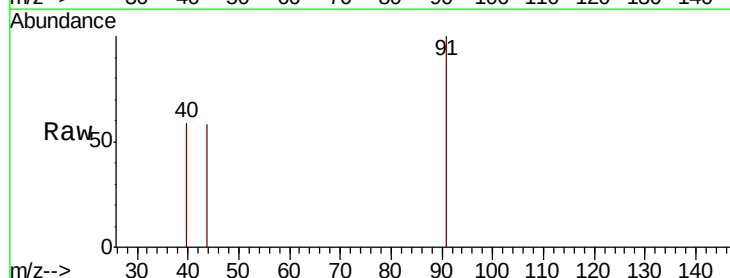


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

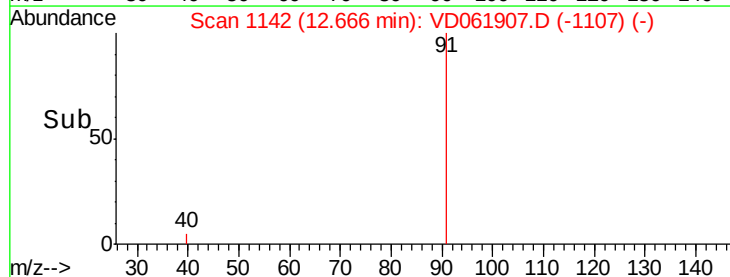
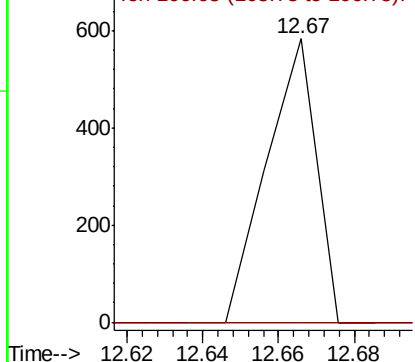


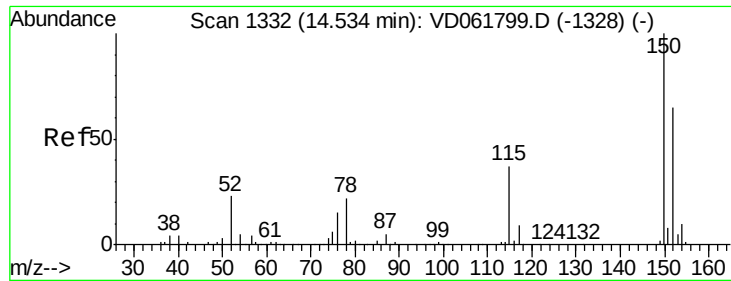
#67
Ethyl Benzene
Concen: 1.120 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.14 min
Lab File: VD061907.D
Acq: 19 Apr 2019 13:47

Tgt Ion: 91 Resp: 529
Ion Ratio Lower Upper
91 100
106 0.0 24.7 37.1#



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.05 (105.75 to 106.75): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-037-A

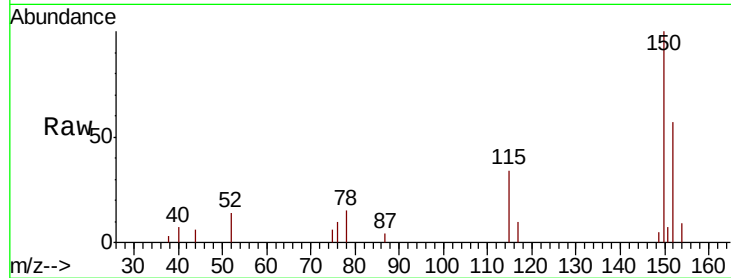
Tgt Ion: 152 Resp: 6731

Ion Ratio Lower Upper

152 100

115 60.2 30.9 92.7

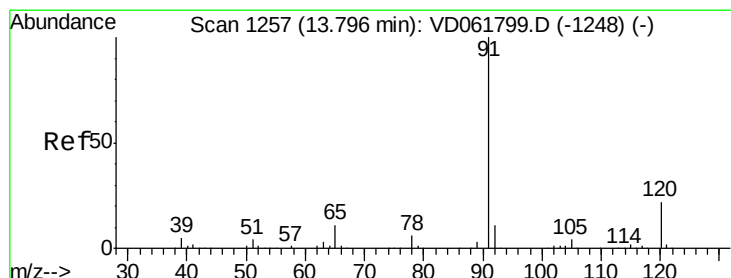
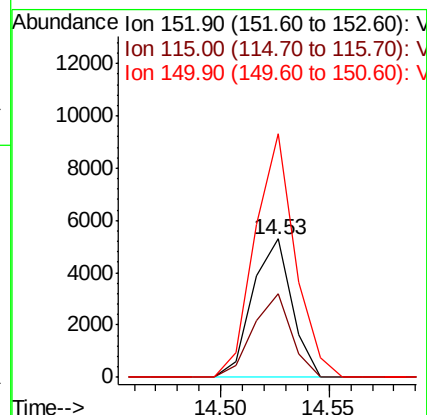
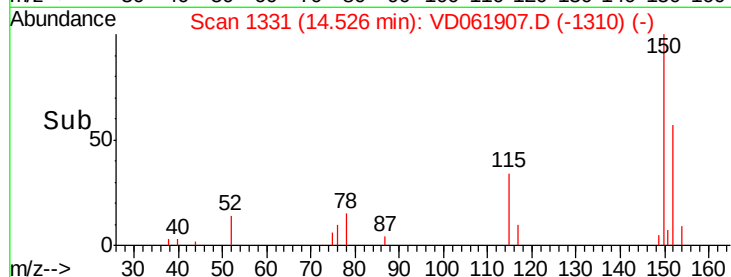
150 176.2 0.0 314.8



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



#78

n-propylbenzene

Concen: 1.602 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD061907.D

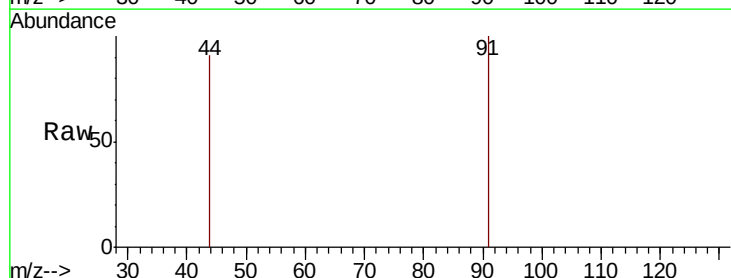
Acq: 19 Apr 2019 13:47

Tgt Ion: 91 Resp: 808

Ion Ratio Lower Upper

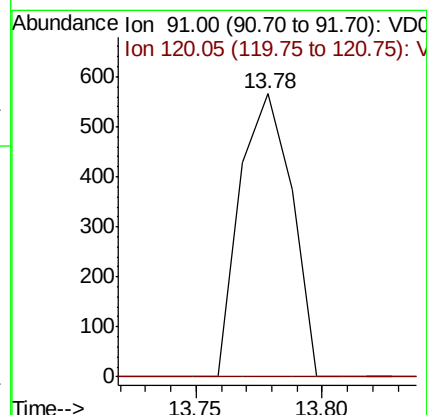
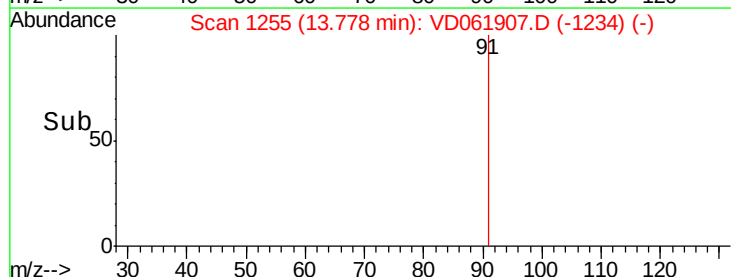
91 100

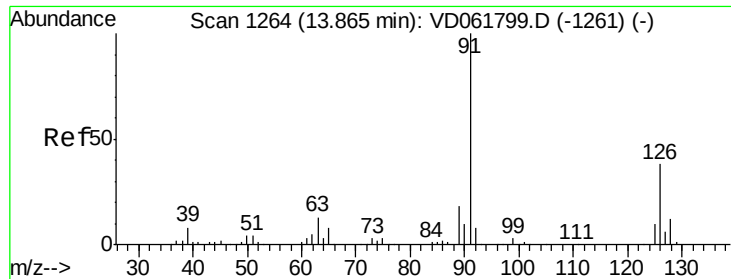
120 0.0 11.1 33.1#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 1.806 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

Instrument :

MSVOA_D

ClientSampleId :

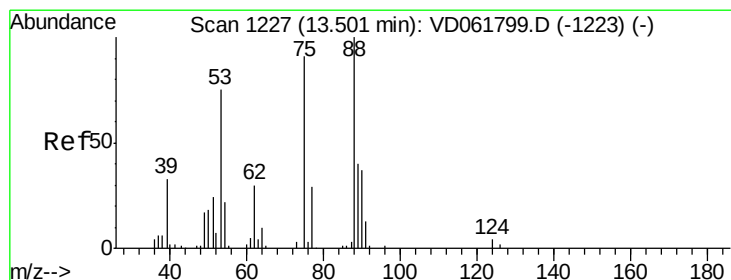
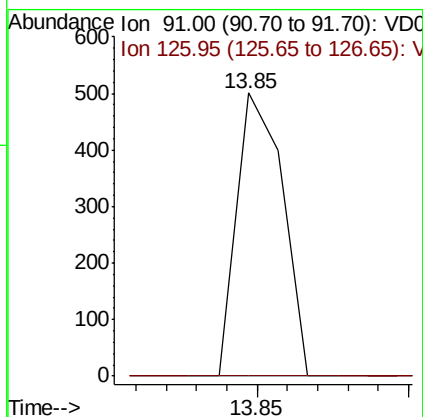
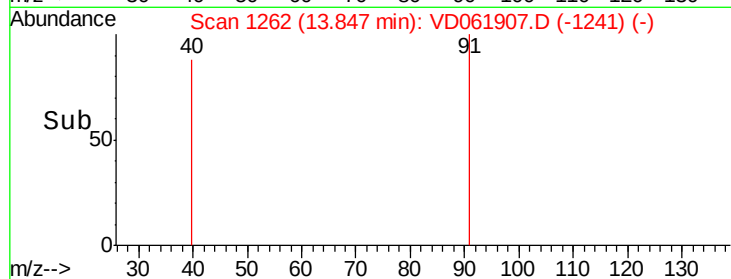
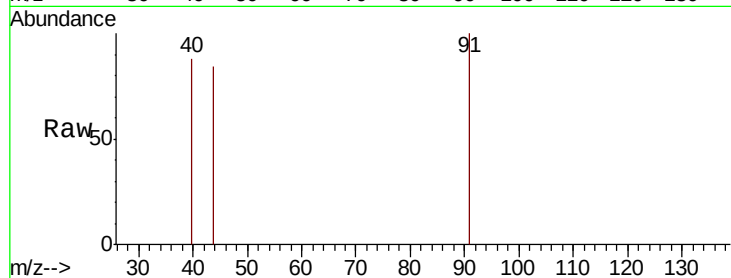
FK-GF-02-037-A

Tgt Ion: 91 Resp: 532

Ion Ratio Lower Upper

91 100

126 0.0 18.6 55.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 98.759 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

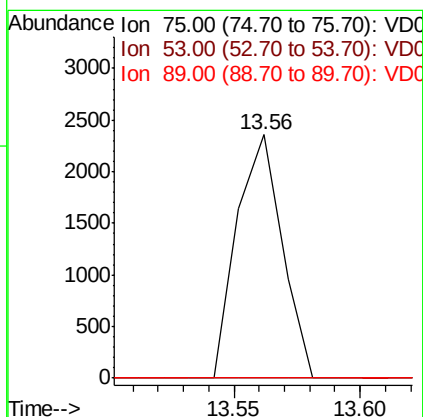
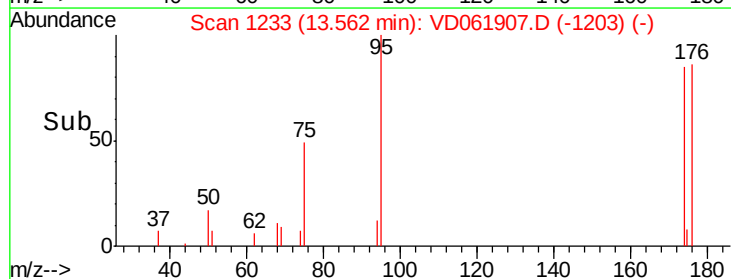
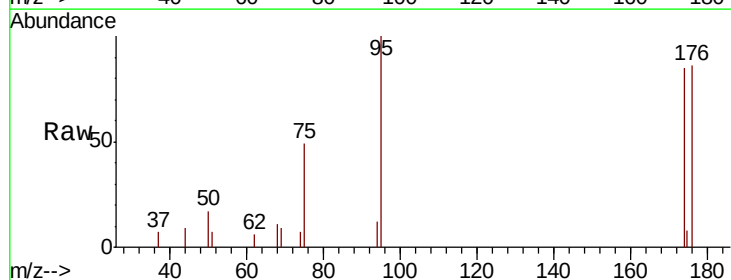
Tgt Ion: 75 Resp: 2929

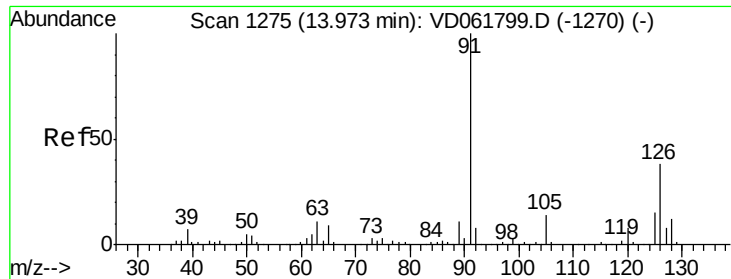
Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#





#82

4-Chlorotoluene

Concen: 1.429 ug/l

RT: 13.96 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

Instrument :

MSVOA_D

ClientSampleId :

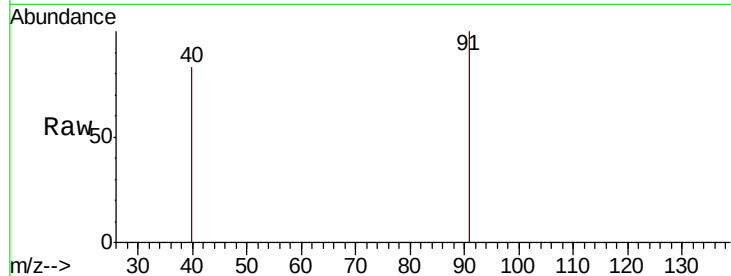
FK-GF-02-037-A

Tgt Ion: 91 Resp: 482

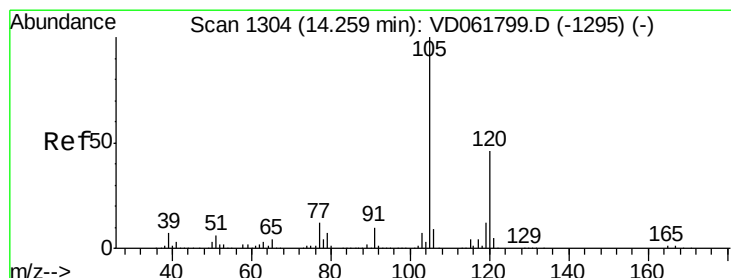
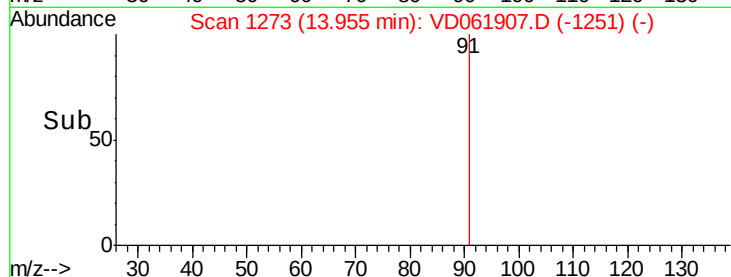
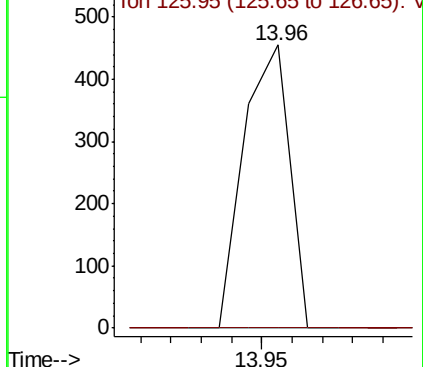
Ion Ratio Lower Upper

91 100

126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1.226 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.01 min

Lab File: VD061907.D

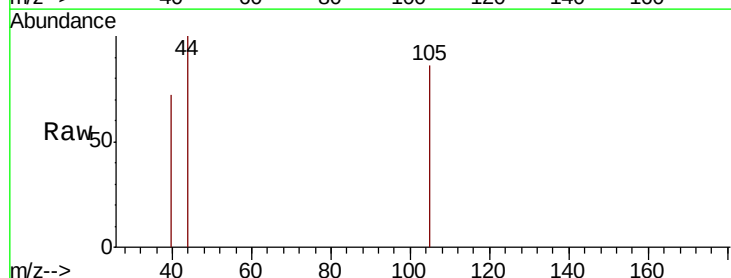
Acq: 19 Apr 2019 13:47

Tgt Ion: 105 Resp: 427

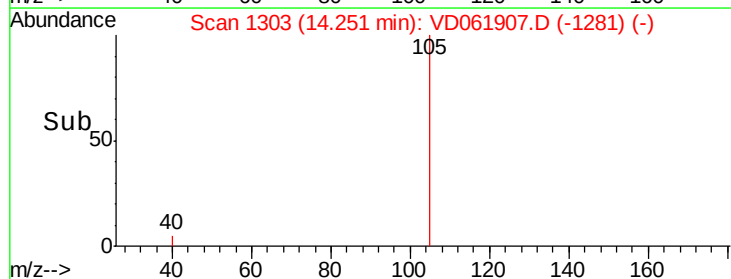
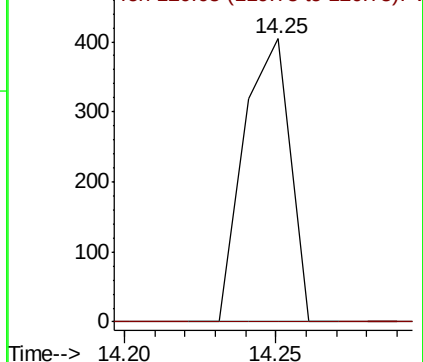
Ion Ratio Lower Upper

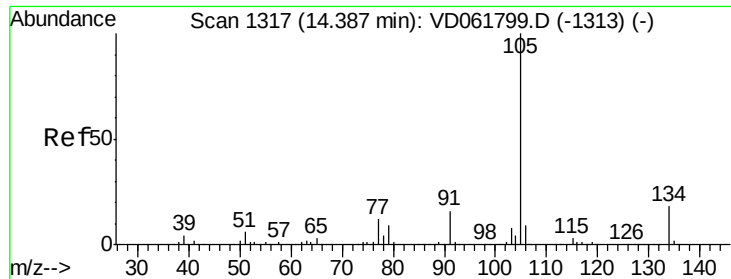
105 100

120 0.0 23.1 69.2#



Abundance Ion 105.05 (104.75 to 105.75): V

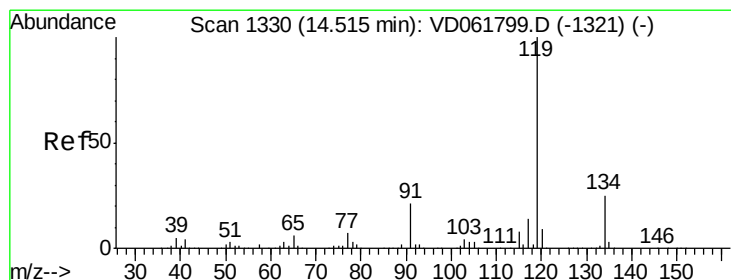
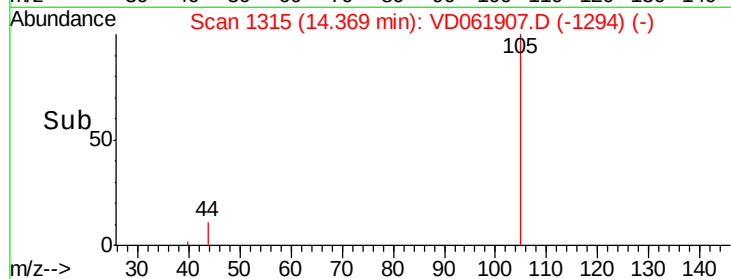
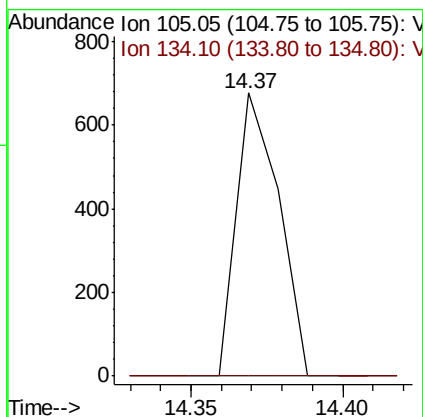
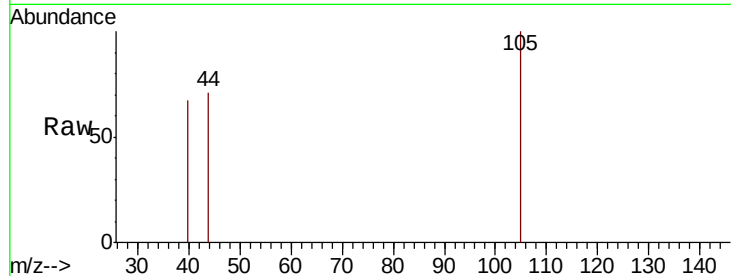




#85
 sec-Butylbenzene
 Concen: 1.582 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

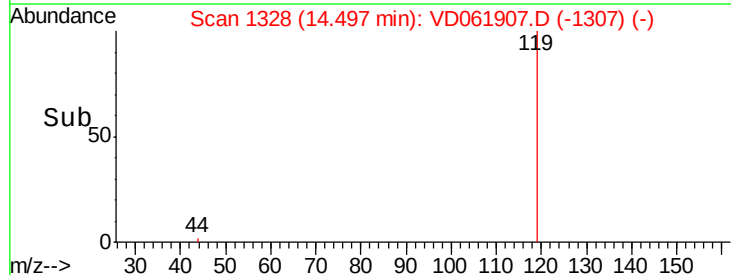
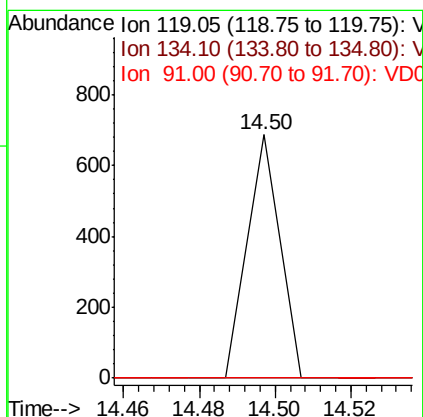
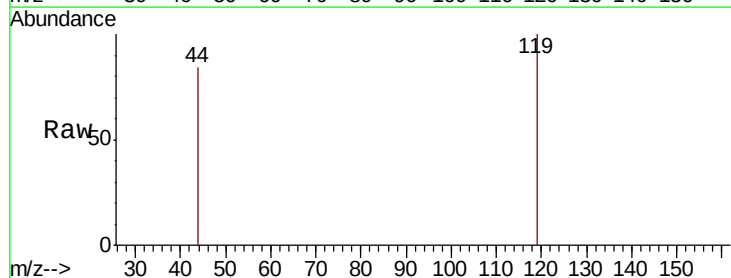
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-037-A

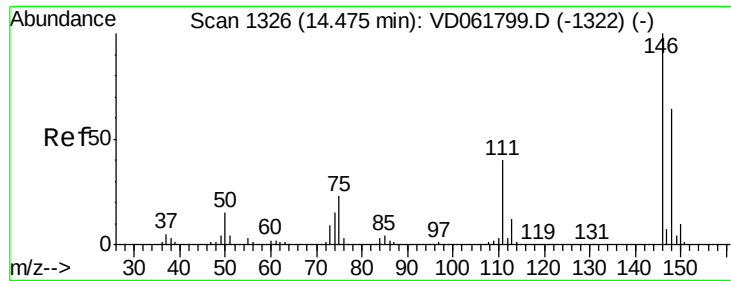
Tgt Ion:105 Resp: 665
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#



#86
 p-Isopropyltoluene
 Concen: 1.032 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.00 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

Tgt Ion:119 Resp: 406
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.8 38.3#
 91 0.0 10.7 32.1#

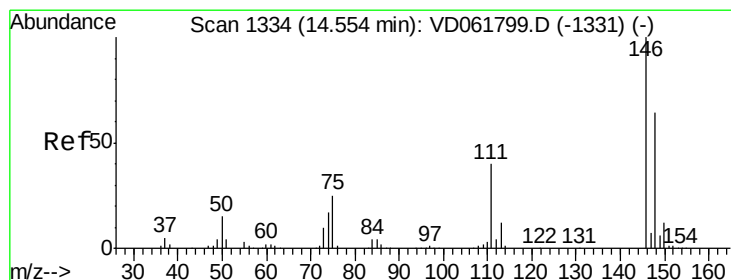
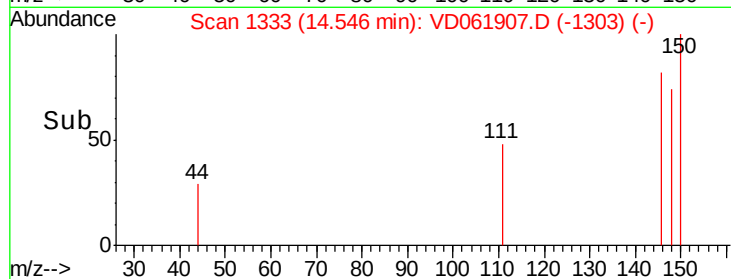
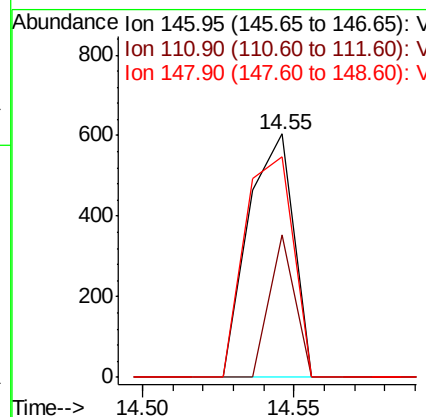
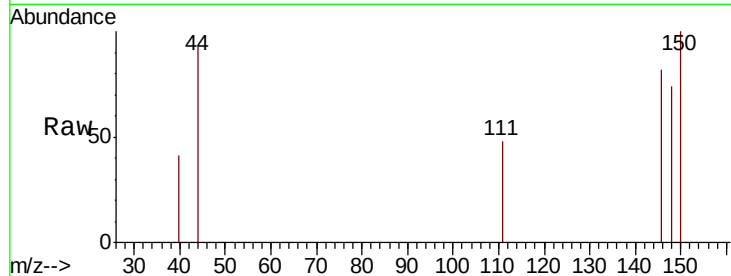




#87
 1,3-Dichlorobenzene
 Concen: 2.915 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.09 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

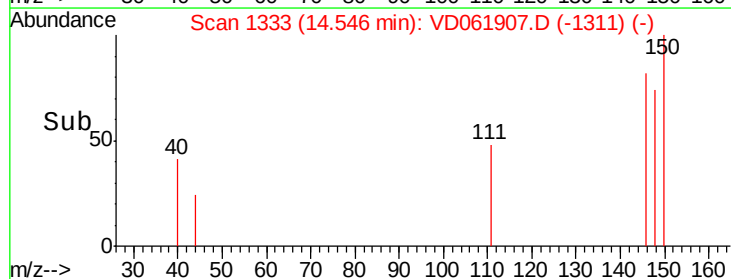
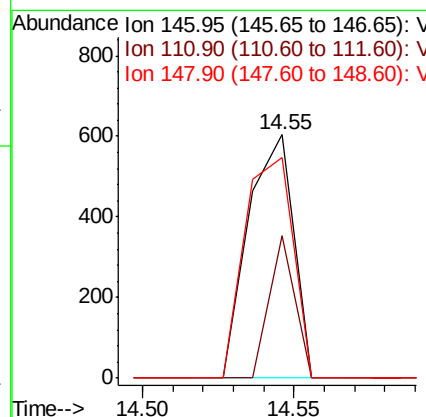
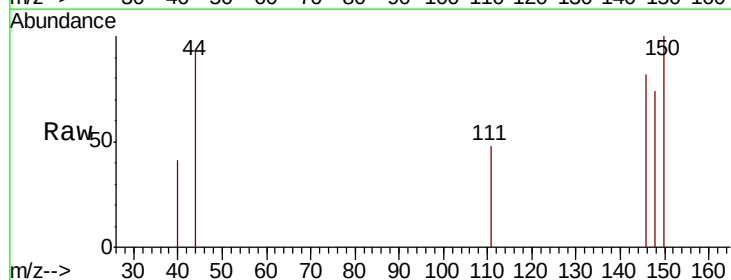
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-037-A

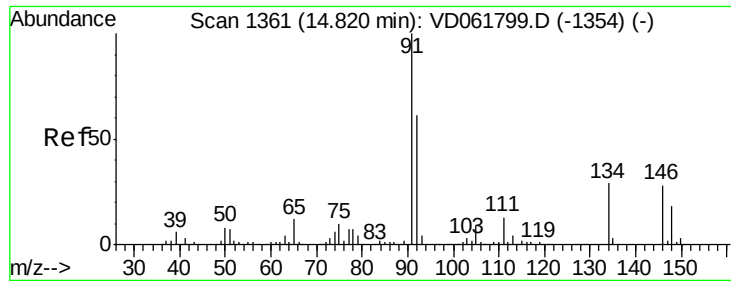
Tgt Ion:146 Resp: 631
 Ion Ratio Lower Upper
 146 100
 111 58.4 20.0 60.0
 148 90.6 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 2.949 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

Tgt Ion:146 Resp: 631
 Ion Ratio Lower Upper
 146 100
 111 58.4 20.2 60.5
 148 90.6 32.0 96.2





#89

n-Butylbenzene

Concen: 1.712 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

Instrument :

MSVOA_D

ClientSampleId :

FK-GF-02-037-A

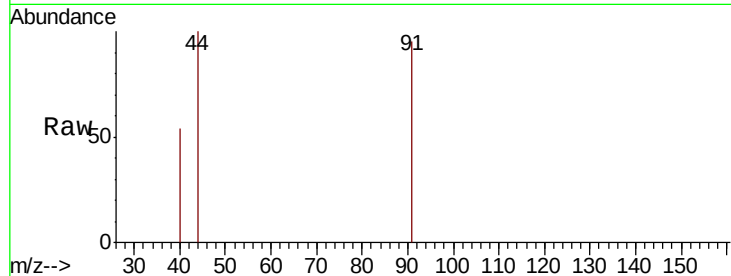
Tgt Ion: 91 Resp: 596

Ion Ratio Lower Upper

91 100

92 0.0 30.3 91.0#

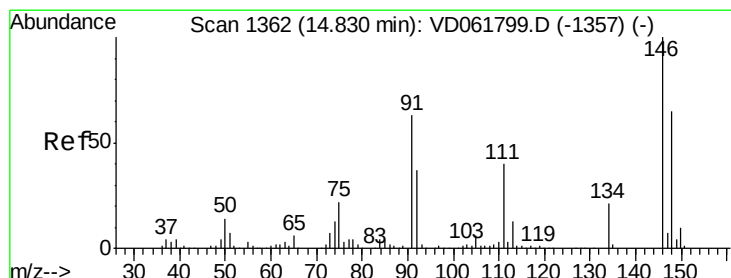
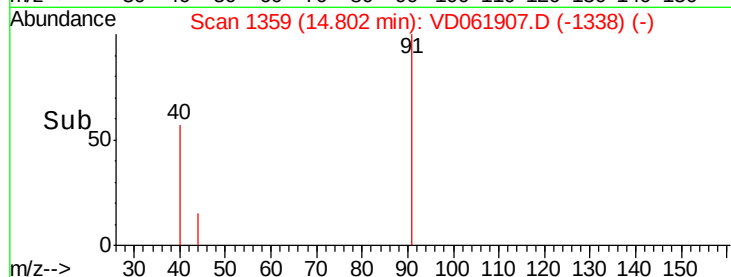
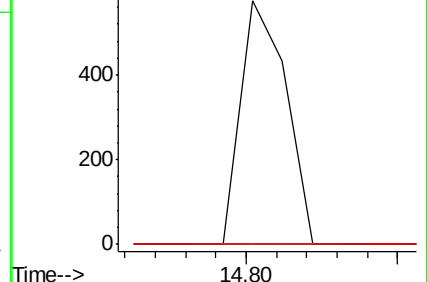
134 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#91

1,2-Dichlorobenzene

Concen: 2.614 ug/l

RT: 14.81 min Scan# 1360

Delta R.T. 0.00 min

Lab File: VD061907.D

Acq: 19 Apr 2019 13:47

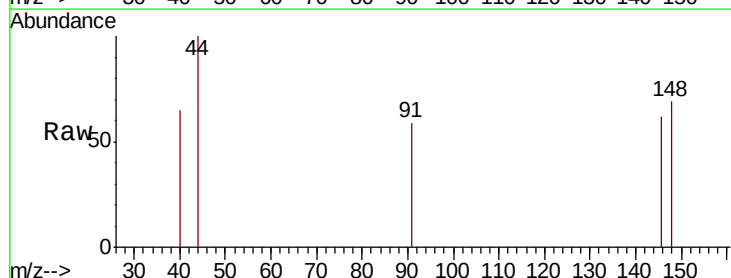
Tgt Ion: 146 Resp: 474

Ion Ratio Lower Upper

146 100

111 0.0 20.0 59.9#

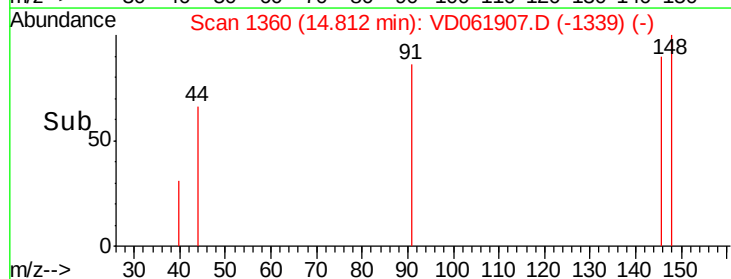
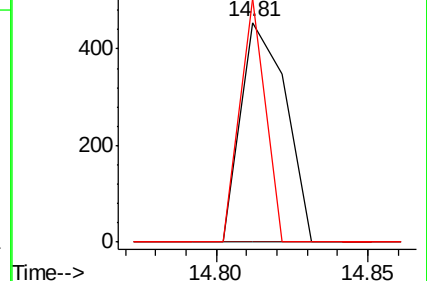
148 110.8 32.3 96.8#

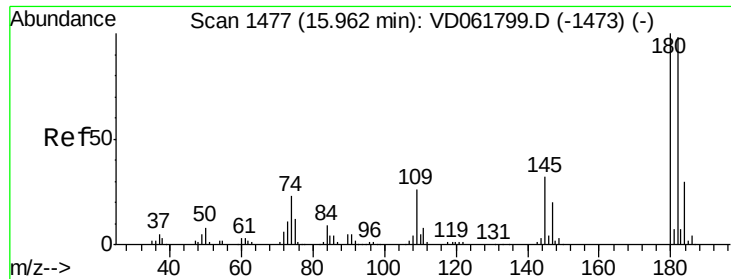


Abundance Ion 145.95 (145.65 to 146.65): VDC

Ion 110.90 (110.60 to 111.60): VDC

Ion 147.90 (147.60 to 148.60): VDC

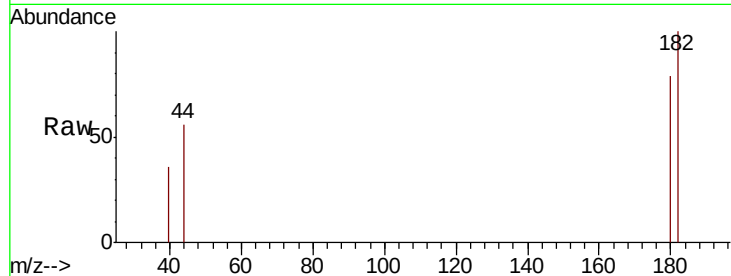




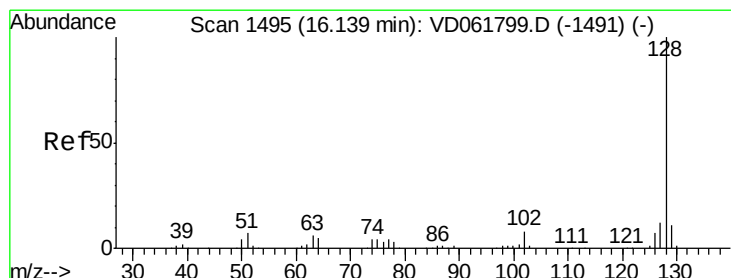
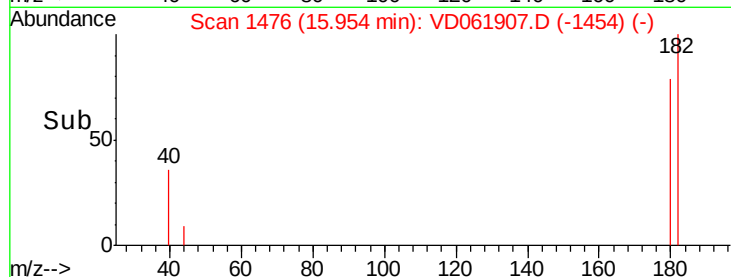
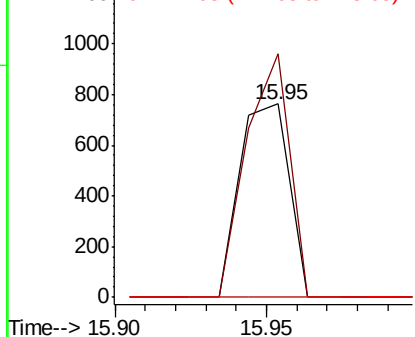
#93
 1,2,4-Trichlorobenzene
 Concen: 8.776 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-037-A

Tgt Ion:180 Resp: 874
 Ion Ratio Lower Upper
 180 100
 182 126.0 49.3 147.8
 145 0.0 16.2 48.6#

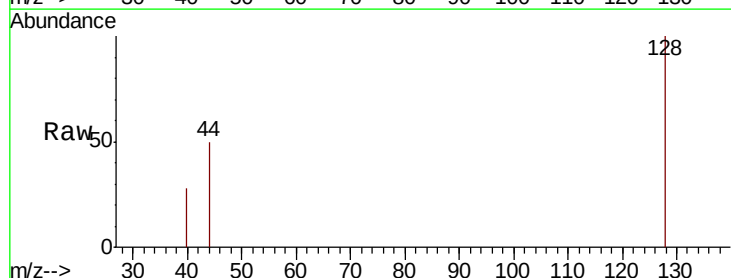


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

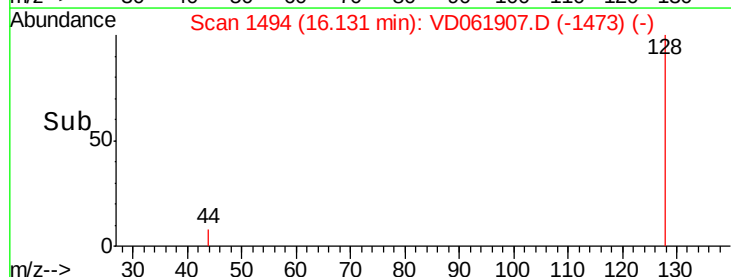
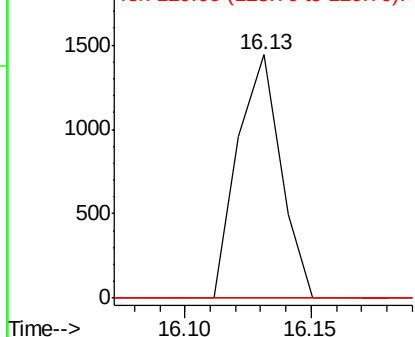


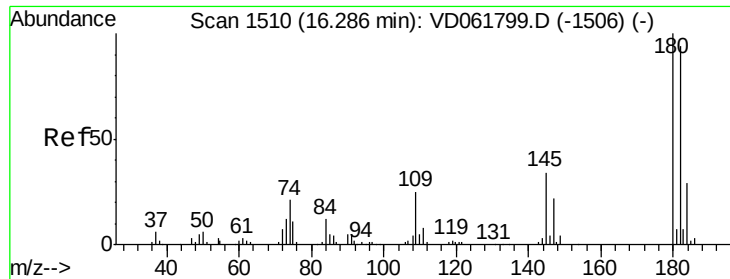
#95
 Naphthalene
 Concen: 11.222 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

Tgt Ion:128 Resp: 1713
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.8 14.8#
 129 0.0 8.8 13.2#



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





#96
 1,2,3-Trichlorobenzene
 Concen: 11.453 ug/l
 RT: 16.28 min Scan# 1509
 Delta R.T. 0.01 min
 Lab File: VD061907.D
 Acq: 19 Apr 2019 13:47

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-GF-02-037-A

Tgt Ion:180 Resp: 650
 Ion Ratio Lower Upper
 180 100
 182 90.9 47.0 141.0
 145 0.0 17.0 51.0#

