

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031319\
 Data File : VF061929.D
 Acq On : 13 Mar 2019 15:58
 Operator : VA/AP
 Sample : K1870-01
 Misc : 5.13g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1

Quant Time: Mar 14 01:16:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.88
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.61
63) Chlorobenzene-d5	9.73	117	70	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.55	152	59	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.80	65	62	0.00	ug/l	-0.05
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

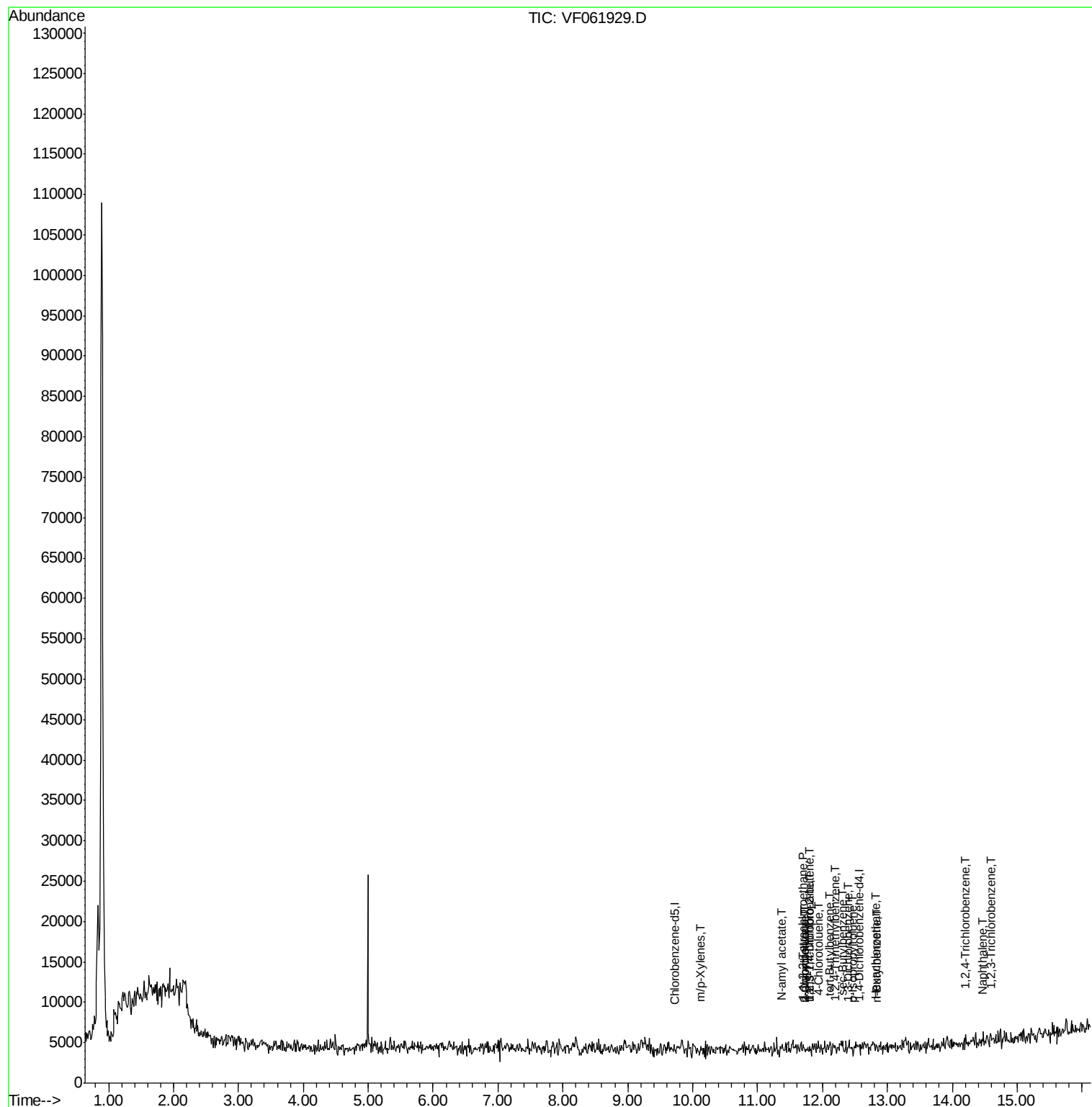
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
68) m/p-Xylenes	10.11	106	144	168.635	ug/l #	1
74) N-amyl acetate	11.37	43	109	116.566	ug/l #	34
75) 1,1,2,2-Tetrachloroethane	11.69	83	66	97.765	ug/l #	23
76) 1,2,3-Trichloropropane	11.80	75	69	149.755	ug/l #	39
78) n-propylbenzene	11.73	91	63	13.734	ug/l #	54
79) 2-Chlorotoluene	11.73	91	63	24.023	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.80	75	69	327.501	ug/l #	18
82) 4-Chlorotoluene	11.93	91	60	22.368	ug/l #	41
83) tert-Butylbenzene	12.12	119	76	21.947	ug/l #	36
84) 1,2,4-Trimethylbenzene	12.20	105	100	31.280	ug/l #	26
85) sec-Butylbenzene	12.30	105	180	39.944	ug/l #	57
86) p-Isopropyltoluene	12.46	119	141	36.810	ug/l #	50
87) 1,3-Dichlorobenzene	12.39	146	71	38.251	ug/l #	26
89) n-Butylbenzene	12.84	91	63	17.210	ug/l #	26
90) Hexachloroethane	12.83	117	63	68.330	ug/l #	24
93) 1,2,4-Trichlorobenzene	14.20	180	76	61.643	ug/l #	75
95) Naphthalene	14.45	128	443	201.738	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.59	180	104	91.360	ug/l #	10

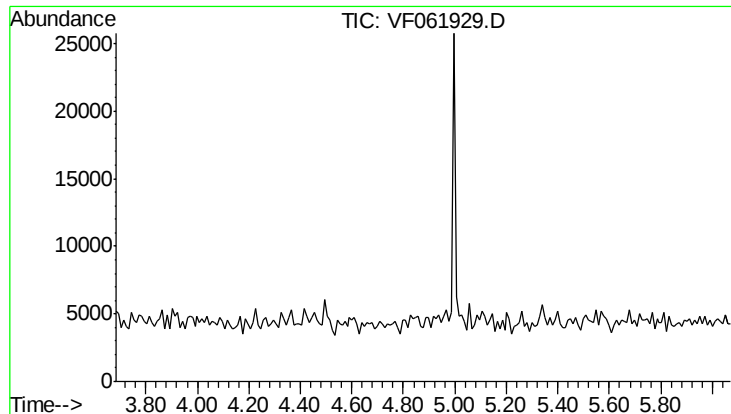
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.88 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampleId :

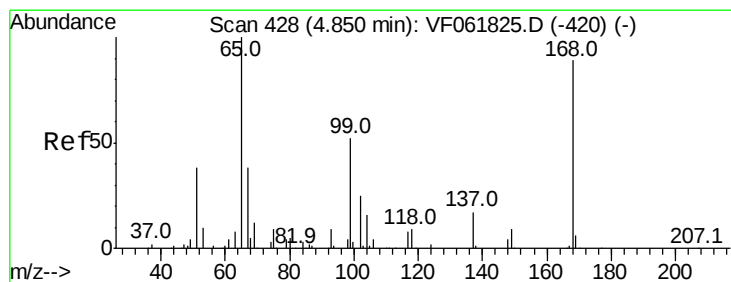
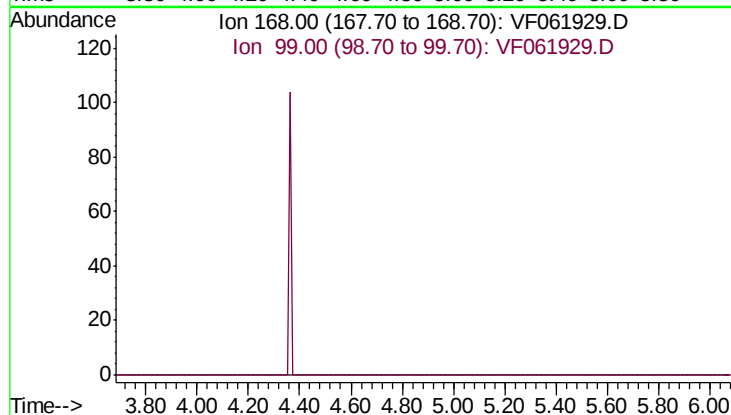
SP-1

Tot Ion: 168

Sig Exp Ratio

168 100

99 51.0



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.80 min Scan# 423

Delta R.T. -0.05 min

Lab File: VF061929.D

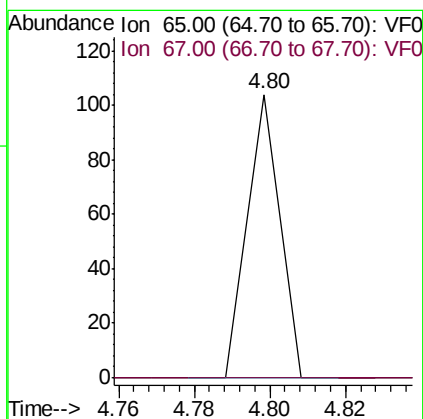
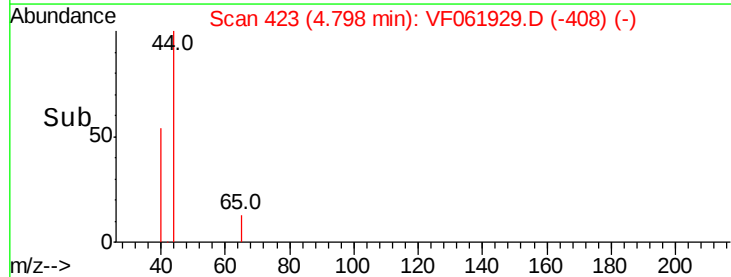
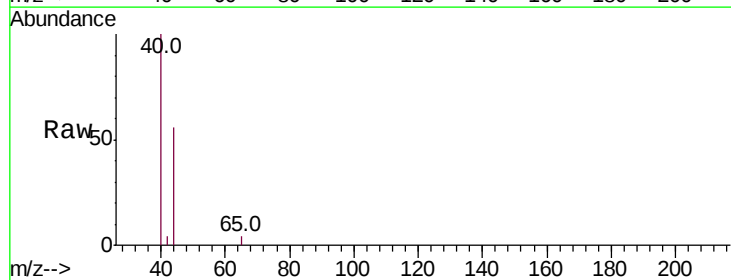
Acq: 13 Mar 2019 15:58

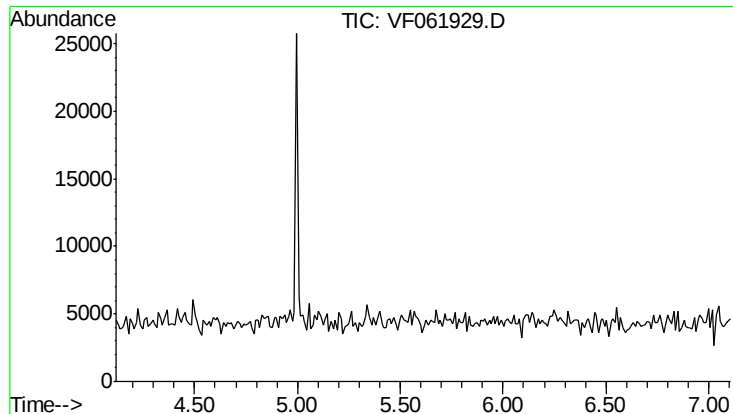
Tgt Ion: 65 Resp: 62

Ion Ratio Lower Upper

65 100

67 0.0 0.0 108.6

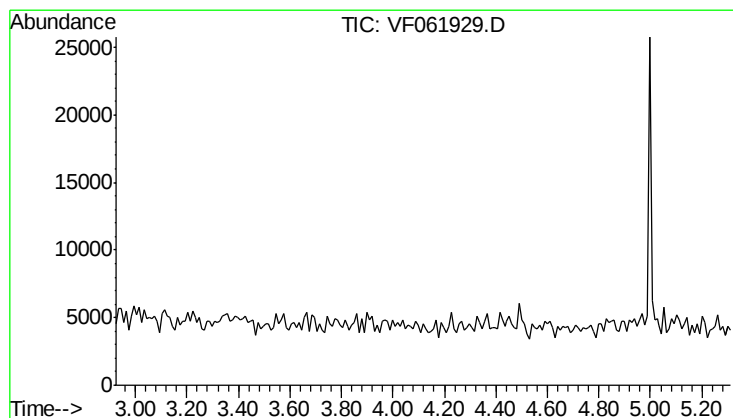
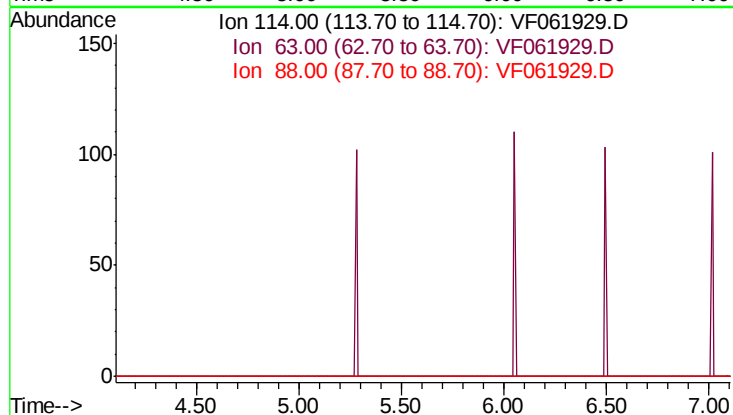




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.61 min
 Lab File: VF061929.D
 Acq: 13 Mar 2019 15:58

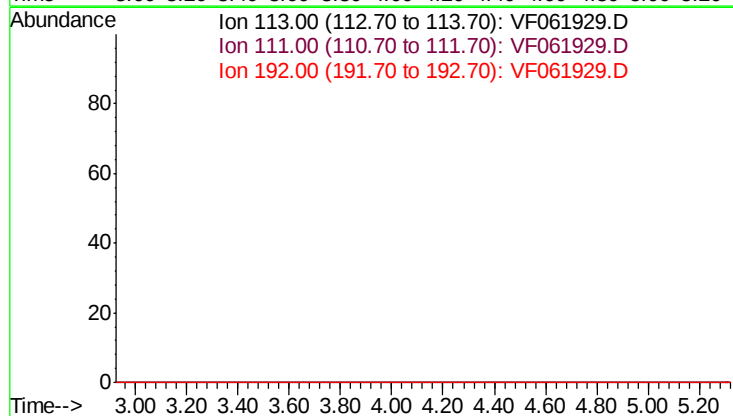
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1

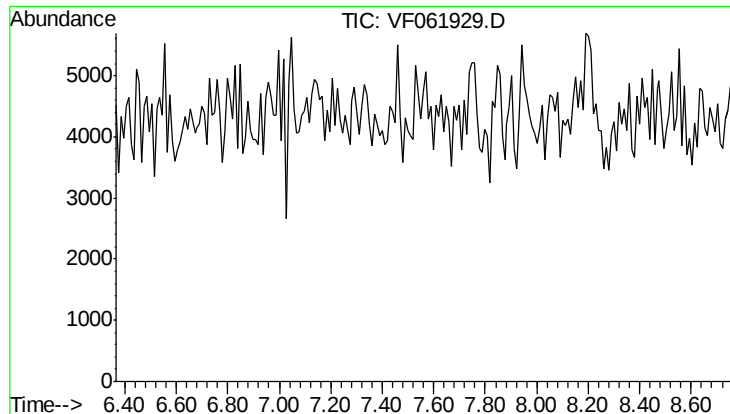
Tot Ion: 114
 Sig Exp Ratio
 114 100
 63 17.8
 88 17.8



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.12 min
 Lab File: VF061929.D
 Acq: 13 Mar 2019 15:58

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 97.0
 192 19.9



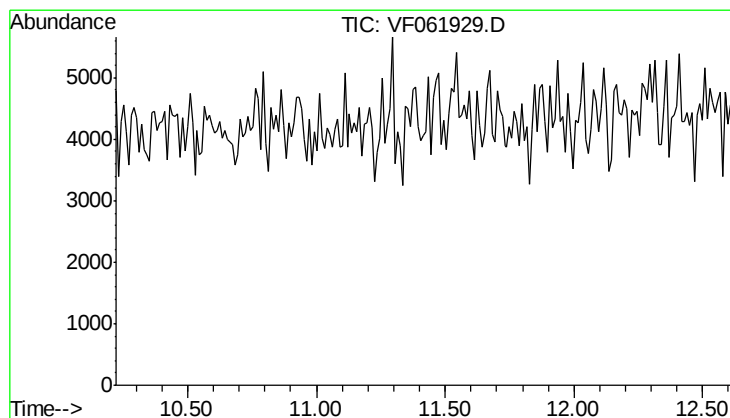
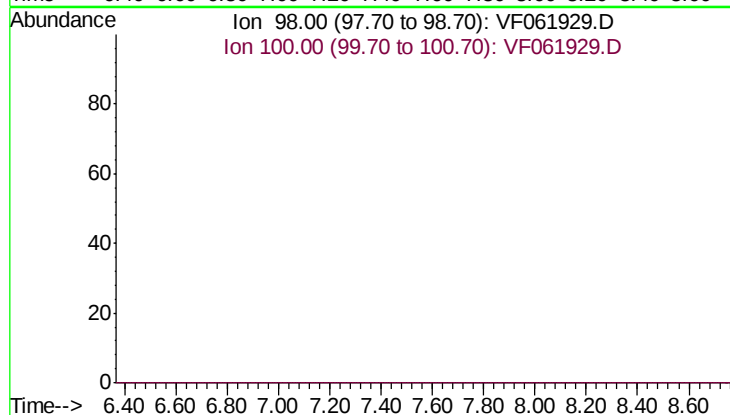


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.56 min

Lab File: VF061929.D
Acq: 13 Mar 2019 15:58

Instrument :
MSVOA_F
ClientSampleId :
SP-1

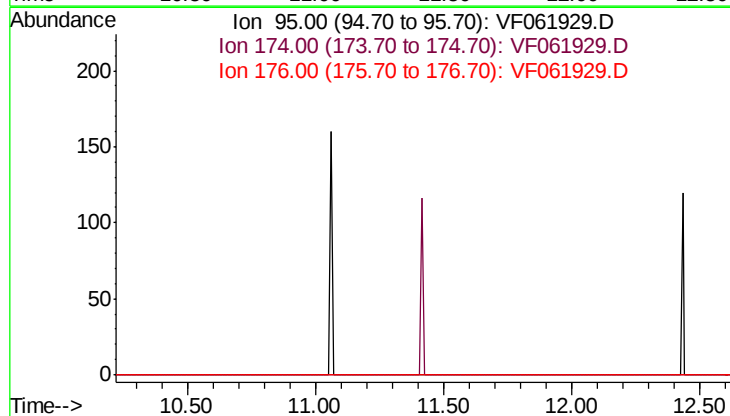
Tot Ion: 98
Sig Exp Ratio
98 100
100 70.0

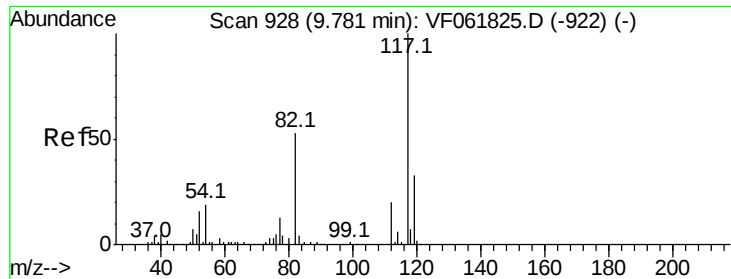


#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.42 min

Lab File: VF061929.D
Acq: 13 Mar 2019 15:58

Tgt Ion: 95
Sig Exp Ratio
95 100
174 87.0
176 87.6

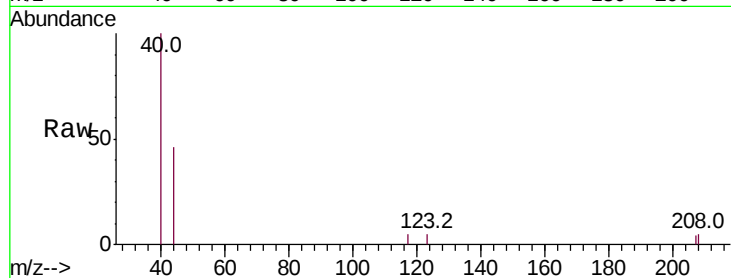




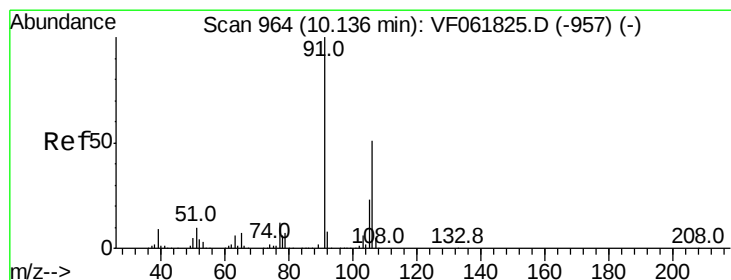
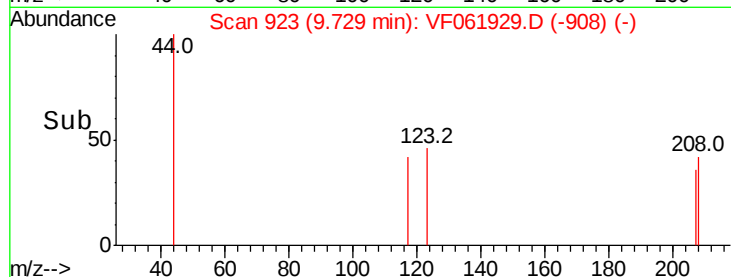
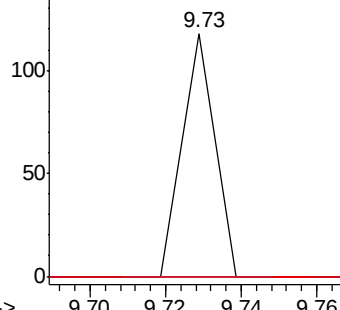
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.73 min Scan# 923
Delta R.T. -0.05 min
Lab File: VF061929.D
Acq: 13 Mar 2019 15:58

Instrument :
MSVOA_F
ClientSampleId :
SP-1

Tot Ion:117 Resp: 70
Ion Ratio Lower Upper
117 100
82 0.0 42.6 63.8#
119 0.0 26.0 39.0#

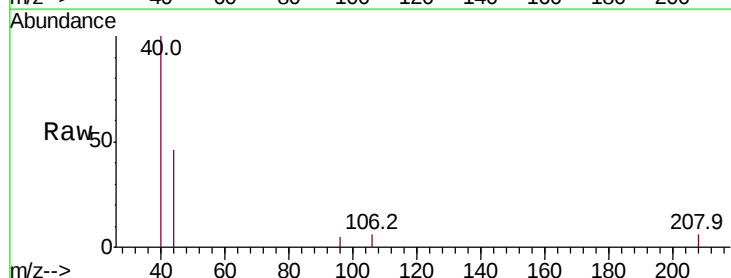


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

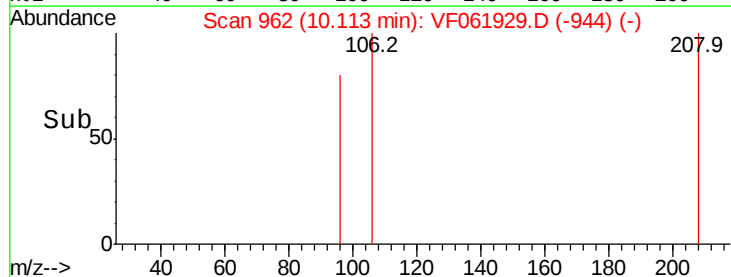
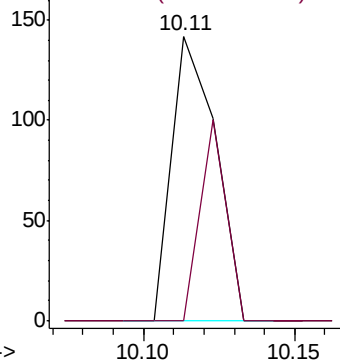


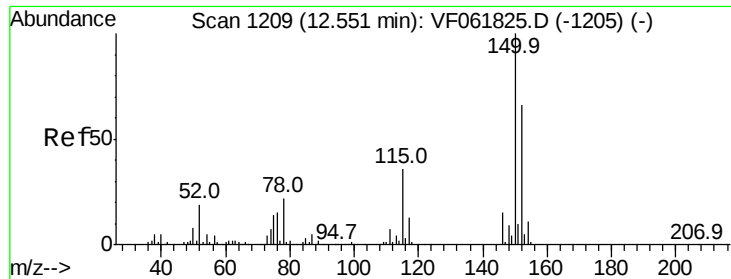
#68
m/p-Xylenes
Concen: 168.635 ug/l
RT: 10.11 min Scan# 962
Delta R.T. -0.02 min
Lab File: VF061929.D
Acq: 13 Mar 2019 15:58

Tgt Ion:106 Resp: 144
Ion Ratio Lower Upper
106 100
91 0.0 157.5 236.3#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampleId :

SP-1

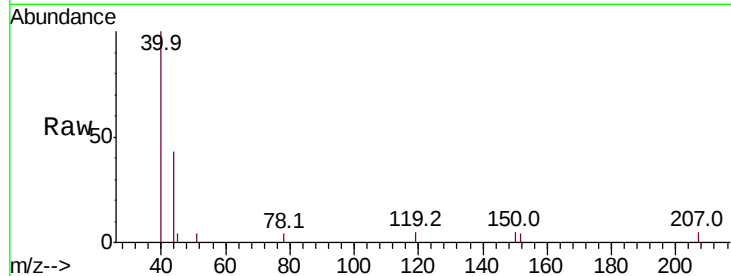
Tot Ion:152 Resp: 59

Ion Ratio Lower Upper

152 100

115 0.0 27.7 83.1#

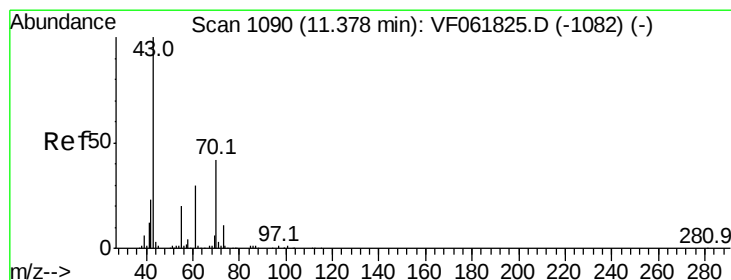
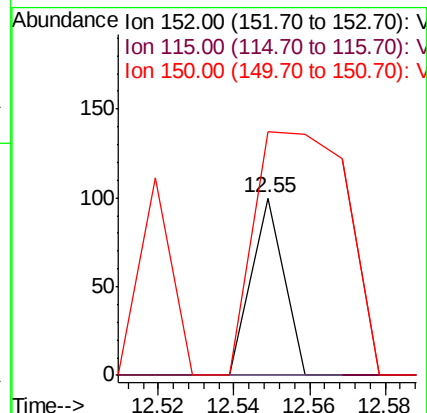
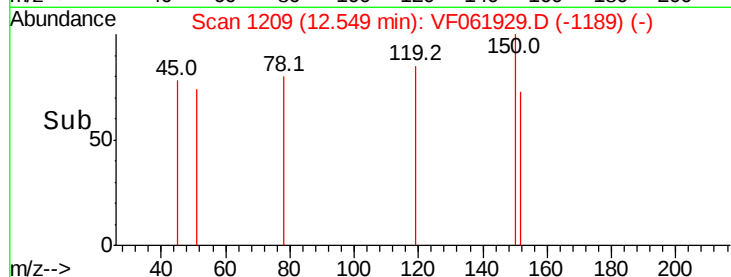
150 137.0 0.0 304.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 116.566 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Tgt Ion: 43 Resp: 109

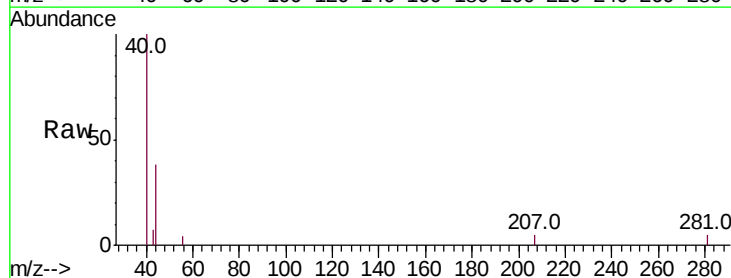
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 58.9 16.3 24.5#

61 0.0 24.0 36.0#

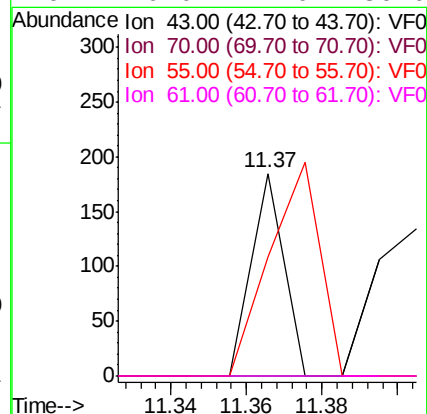
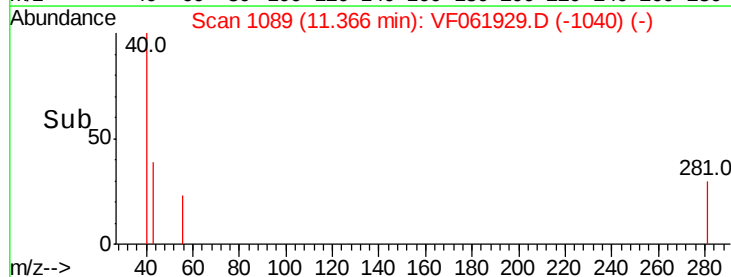


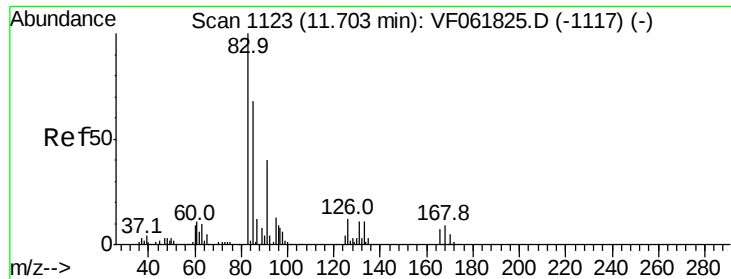
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 97.765 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampled :

SP-1

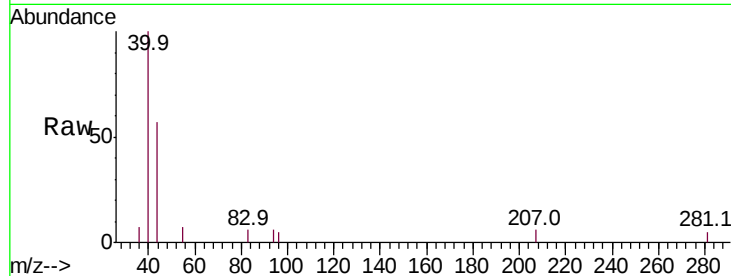
Tot Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

85 0.0 34.2 102.6#

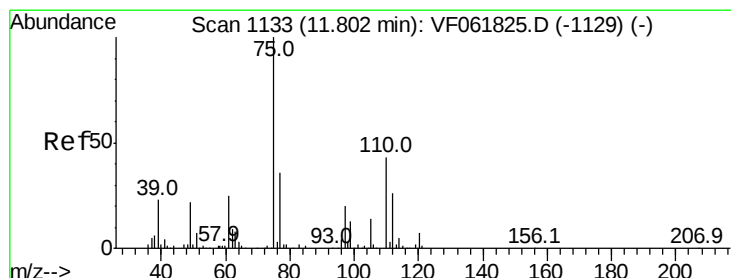
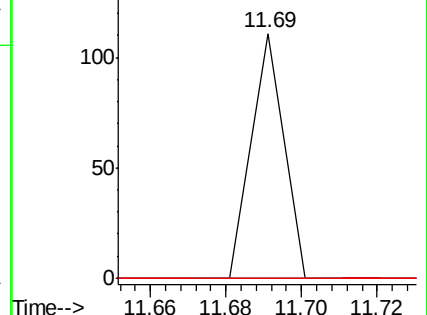
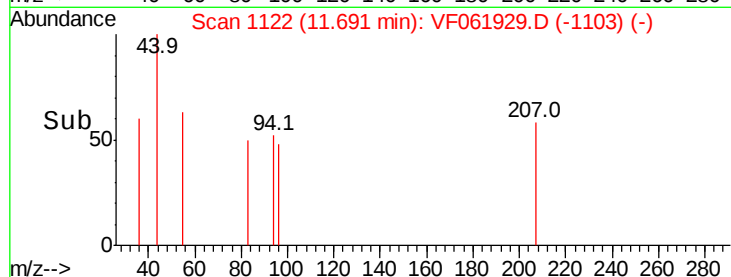


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

11.69



#76

1,2,3-Trichloropropane

Concen: 149.755 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.00 min

Lab File: VF061929.D

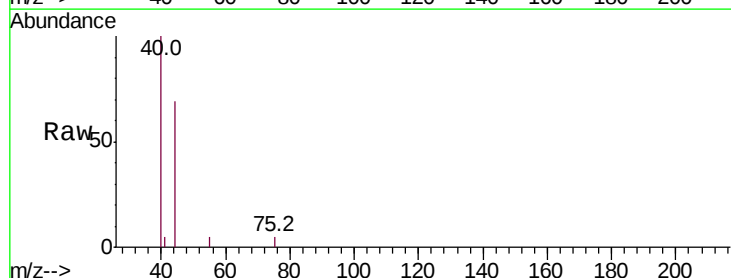
Acq: 13 Mar 2019 15:58

Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

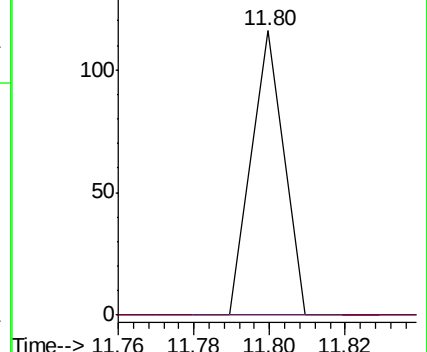
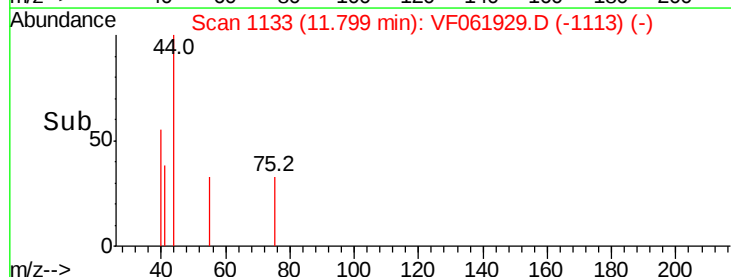
77 0.0 18.1 54.4#

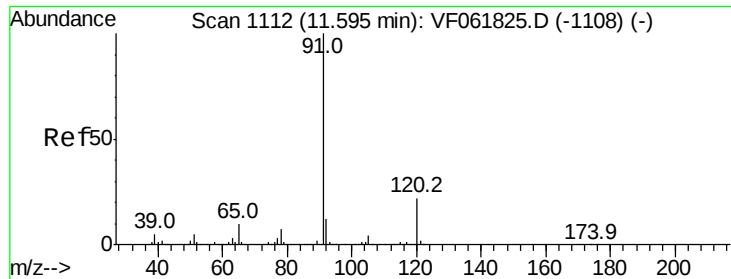


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

11.80





#78

n-propylbenzene

Concen: 13.734 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.14 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampled :

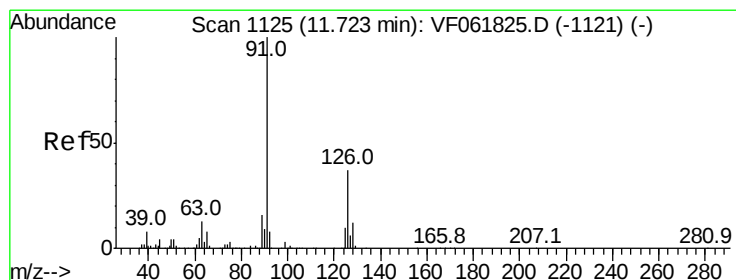
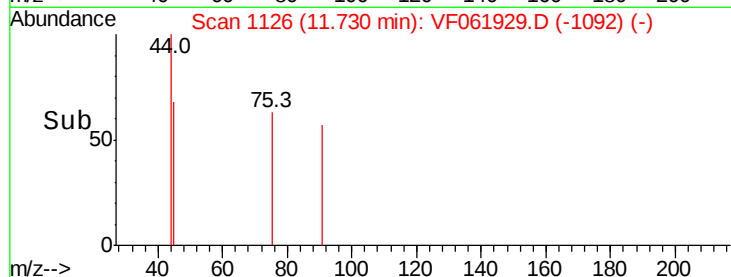
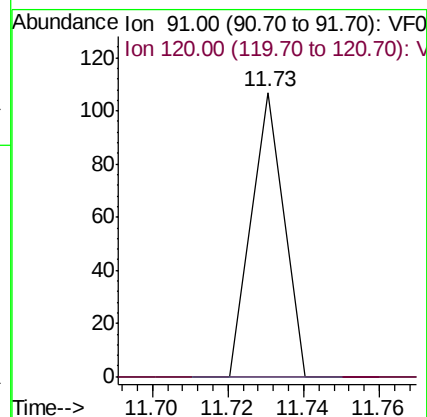
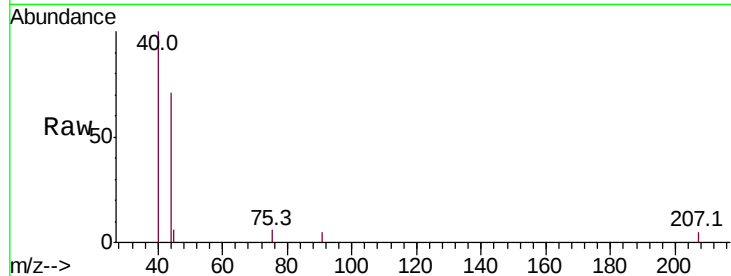
SP-1

Tot Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#



#79

2-Chlorotoluene

Concen: 24.023 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VF061929.D

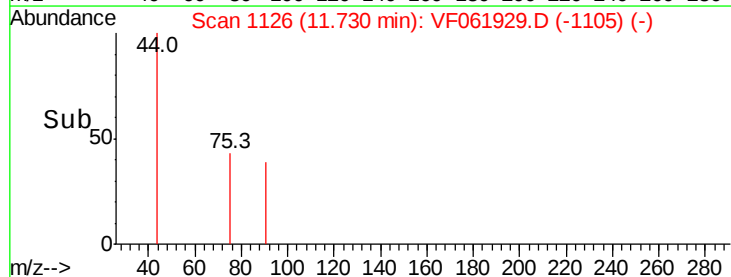
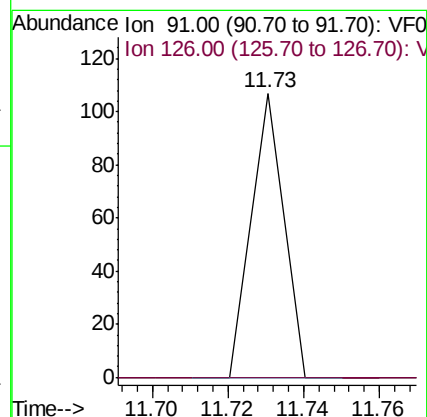
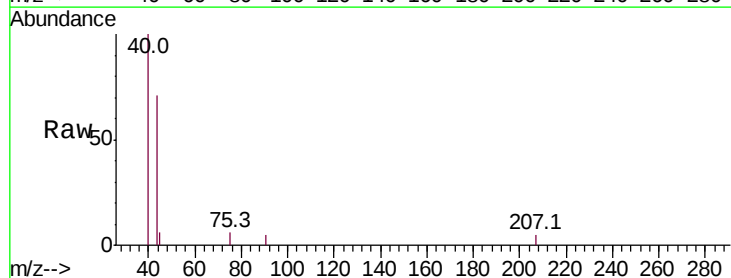
Acq: 13 Mar 2019 15:58

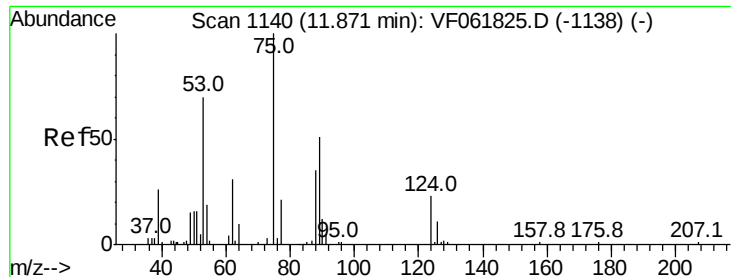
Tgt Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 327.501 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.07 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampleId :

SP-1

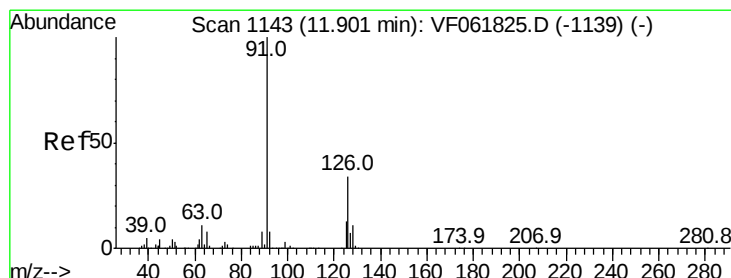
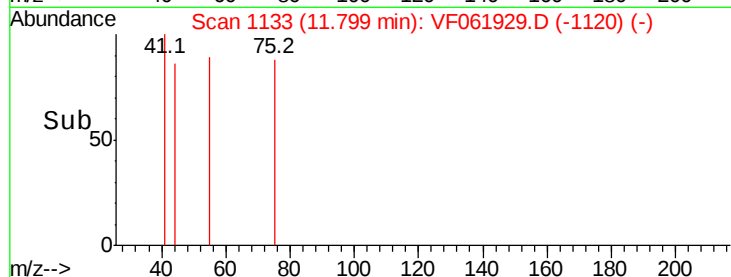
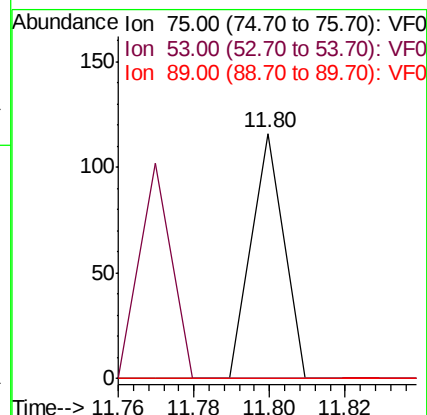
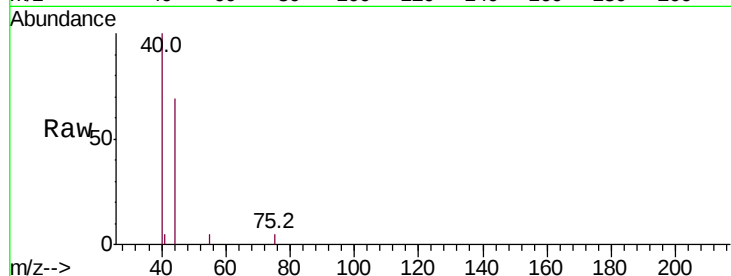
Tot Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

53 0.0 58.6 88.0#

89 0.0 41.4 62.0#



#82

4-Chlorotoluene

Concen: 22.368 ug/l

RT: 11.93 min Scan# 1146

Delta R.T. 0.03 min

Lab File: VF061929.D

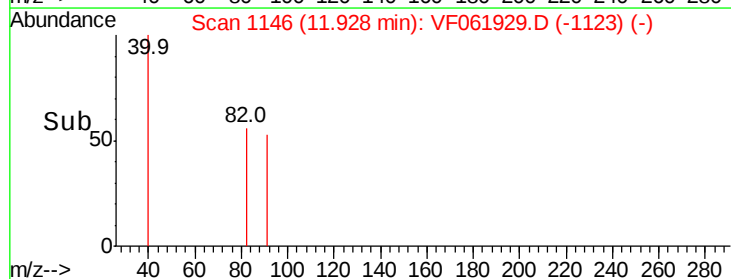
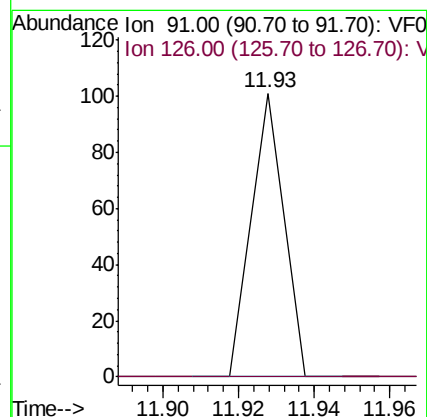
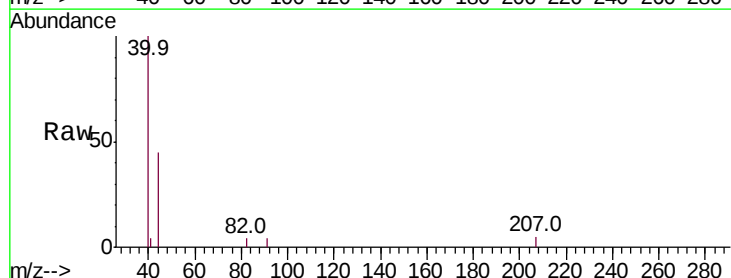
Acq: 13 Mar 2019 15:58

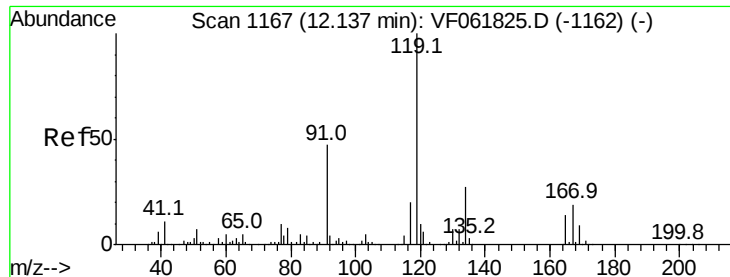
Tgt Ion: 91 Resp: 60

Ion Ratio Lower Upper

91 100

126 0.0 17.0 50.9#

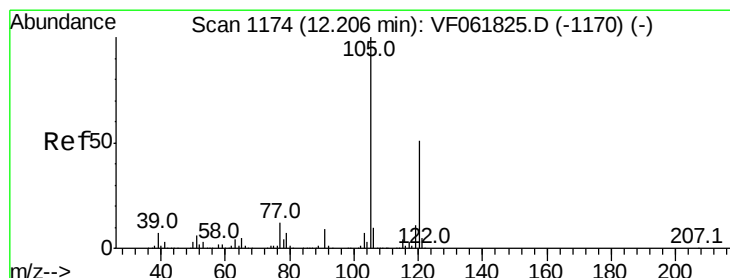
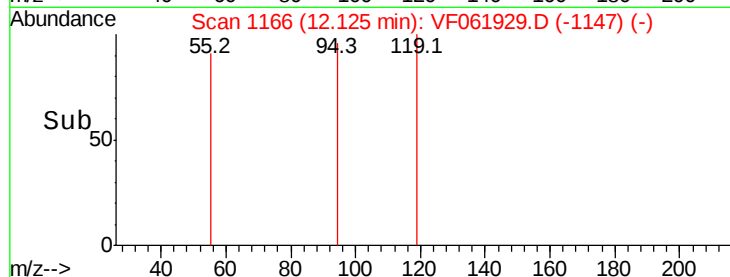
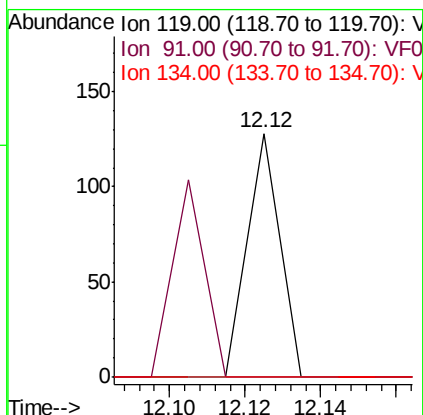
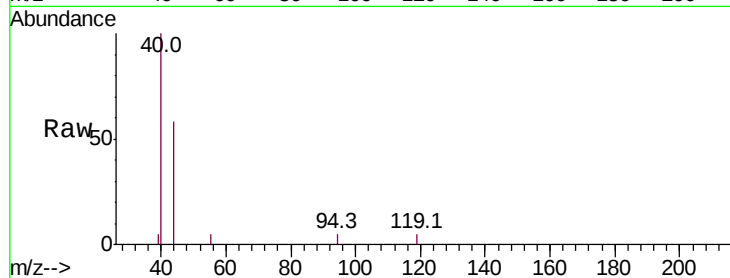




#83
tert-Butylbenzene
Concen: 21.947 ug/l
RT: 12.12 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VF061929.D
Acq: 13 Mar 2019 15:58

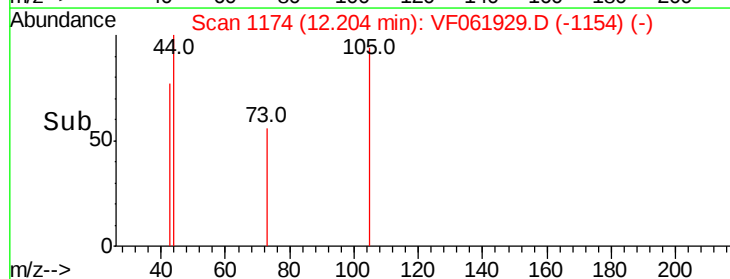
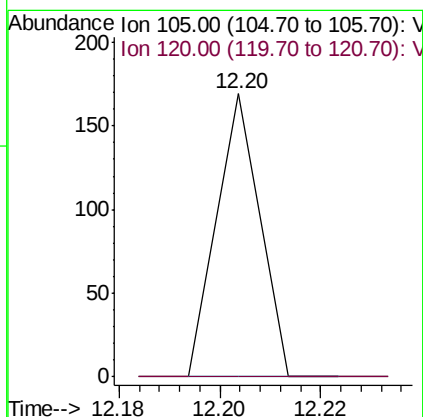
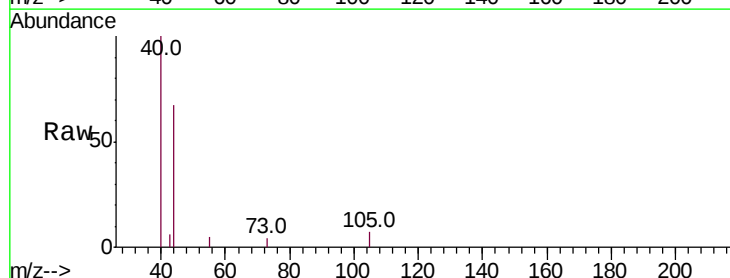
Instrument :
MSVOA_F
ClientSampleId :
SP-1

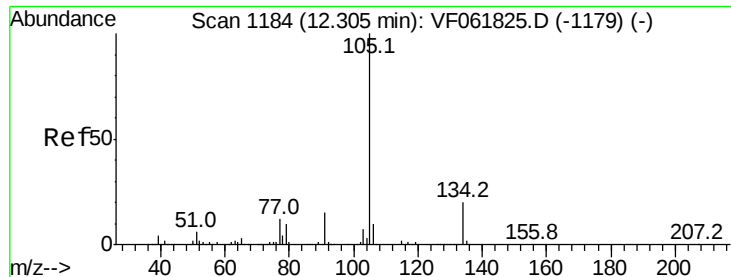
Tot Ion:119 Resp: 76
Ion Ratio Lower Upper
119 100
91 0.0 23.5 70.5#
134 0.0 13.3 39.8#



#84
1,2,4-Trimethylbenzene
Concen: 31.280 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VF061929.D
Acq: 13 Mar 2019 15:58

Tgt Ion:105 Resp: 100
Ion Ratio Lower Upper
105 100
120 0.0 25.8 77.4#





#85

sec-Butylbenzene

Concen: 39.944 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampleId :

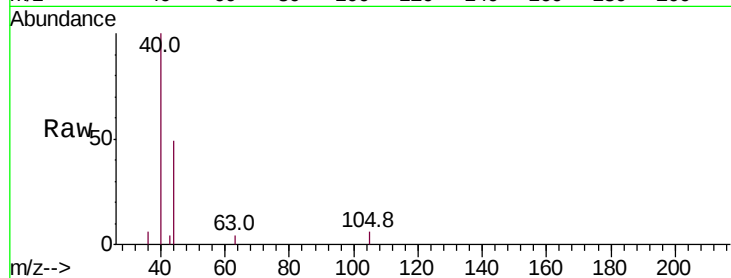
SP-1

Tot Ion:105 Resp: 180

Ion Ratio Lower Upper

105 100

134 0.0 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.30

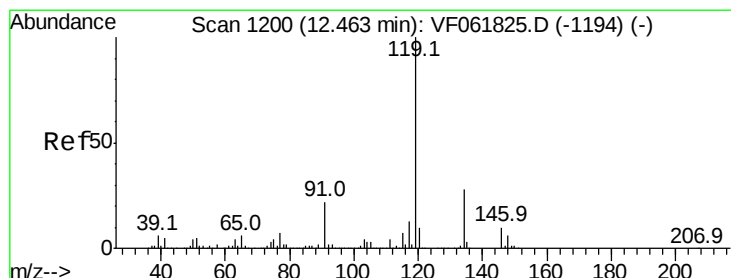
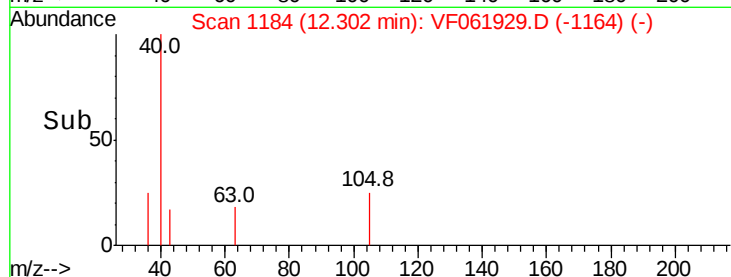
150

100

50

0

Time--> 12.25 12.30



#86

p-Isopropyltoluene

Concen: 36.810 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

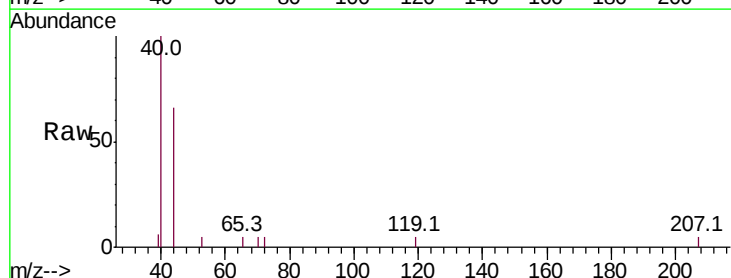
Tgt Ion:119 Resp: 141

Ion Ratio Lower Upper

119 100

134 0.0 14.0 42.0#

91 0.0 11.1 33.3#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

12.46

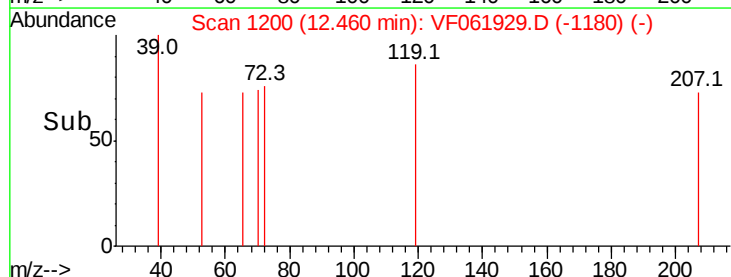
150

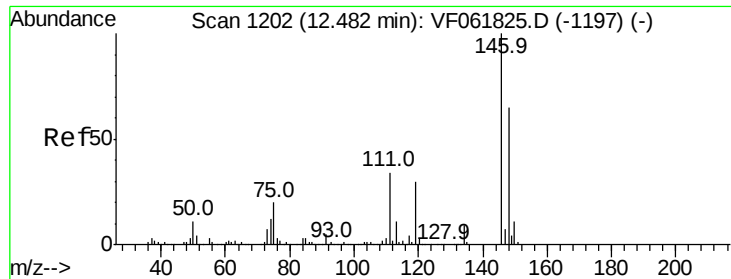
100

50

0

Time--> 12.45





#87

1,3-Dichlorobenzene

Concen: 38.251 ug/l

RT: 12.39 min Scan# 1193

Delta R.T. -0.09 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampleId :

SP-1

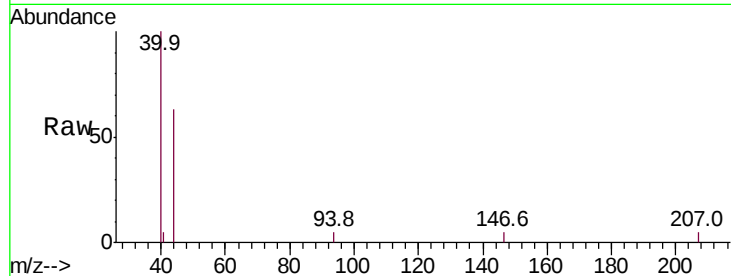
Tot Ion:146 Resp: 71

Ion Ratio Lower Upper

146 100

111 0.0 17.0 51.0#

148 0.0 32.5 97.5#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

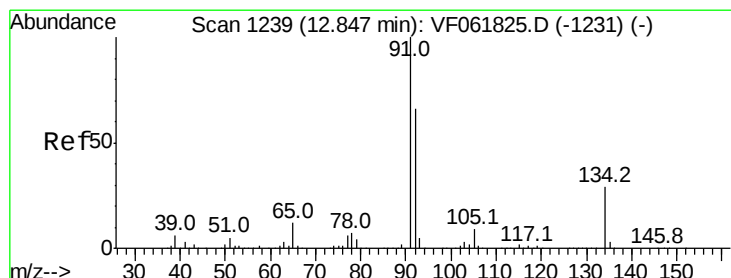
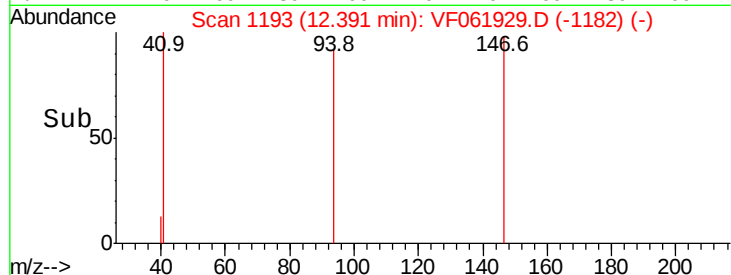
12.39

100

50

0

Time--> 12.36 12.38 12.40 12.42



#89

n-Butylbenzene

Concen: 17.210 ug/l

RT: 12.84 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

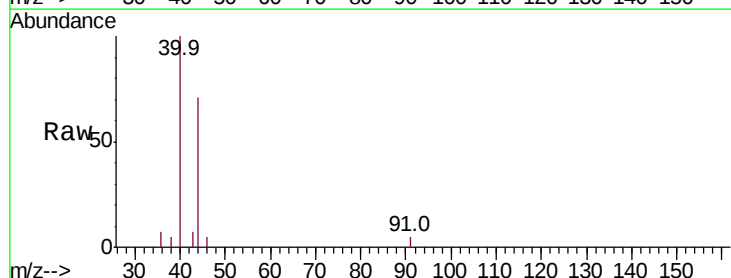
Tgt Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

92 0.0 32.9 98.6#

134 0.0 14.5 43.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V

200

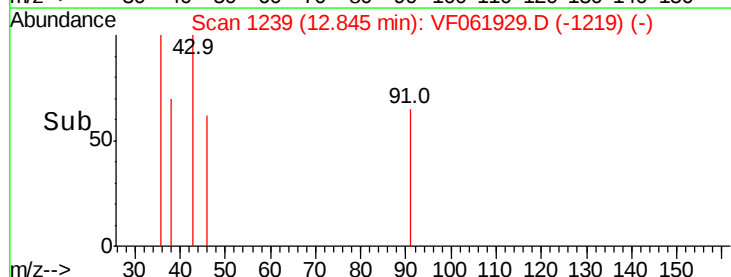
150

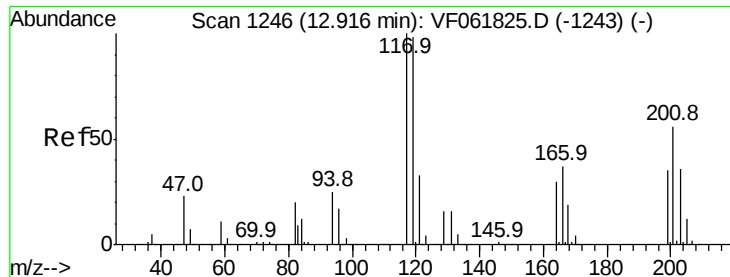
100

50

0

Time--> 12.82 12.84 12.86





#90

Hexachloroethane

Concen: 68.330 ug/l

RT: 12.83 min Scan# 1238

Delta R.T. -0.08 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampleId :

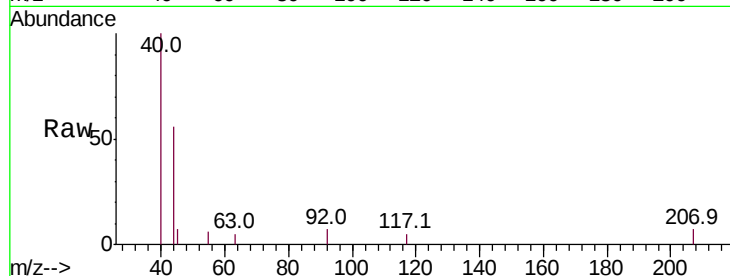
SP-1

Tot Ion:117 Resp: 63

Ion Ratio Lower Upper

117 100

201 0.0 27.8 83.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

12.83

120

100

80

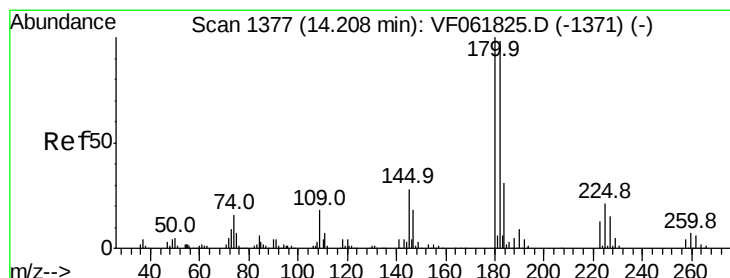
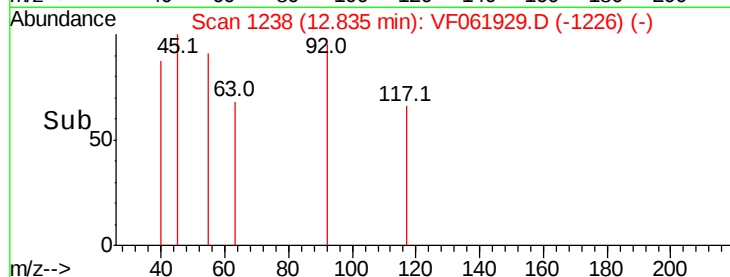
60

40

20

0

Time--> 12.80 12.82 12.84 12.86



#93

1,2,4-Trichlorobenzene

Concen: 61.643 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. -0.01 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

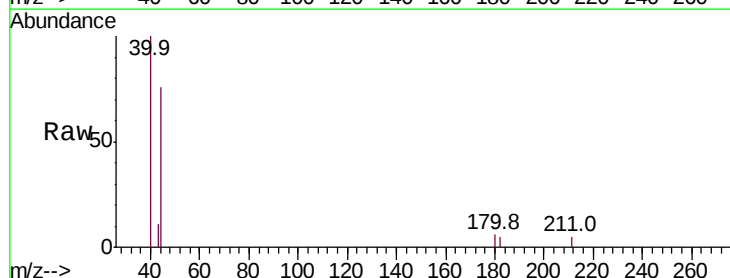
Tgt Ion:180 Resp: 76

Ion Ratio Lower Upper

180 100

182 81.4 49.0 147.2

145 0.0 14.1 42.4#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

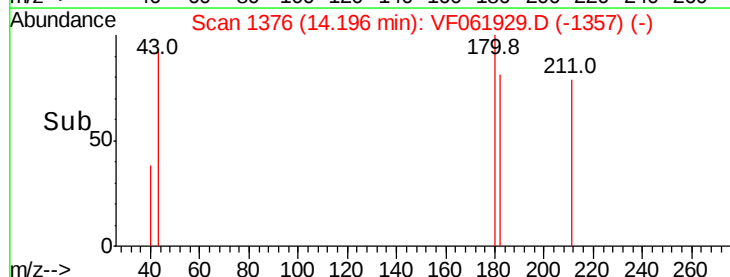
150

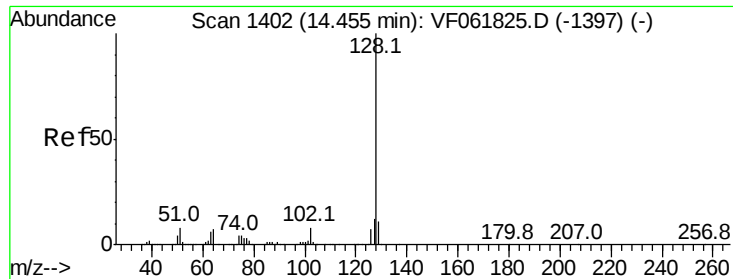
100

50

0

Time--> 14.16 14.18 14.20 14.22





#95

Naphthalene

Concen: 201.738 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

Instrument :

MSVOA_F

ClientSampleId :

SP-1

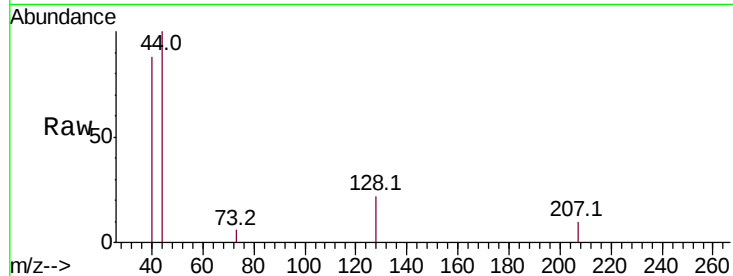
Tot Ion:128 Resp: 443

Ion Ratio Lower Upper

128 100

127 0.0 9.3 13.9#

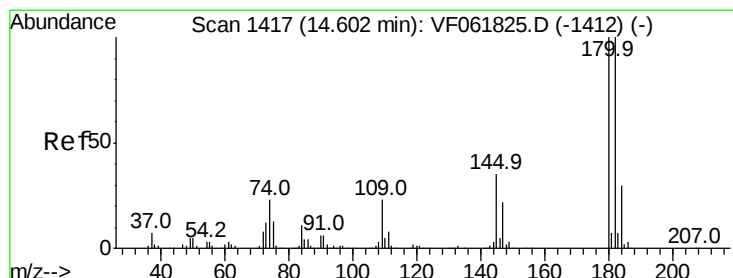
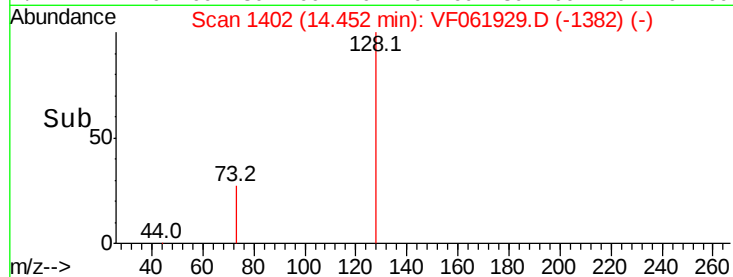
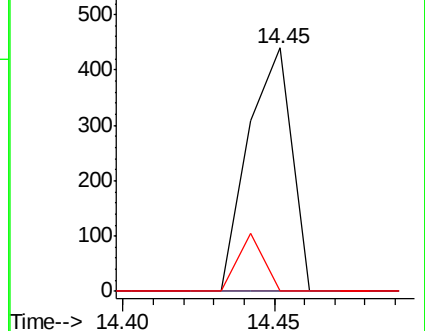
129 0.0 8.8 13.2#



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: 91.360 ug/l

RT: 14.59 min Scan# 1416

Delta R.T. -0.01 min

Lab File: VF061929.D

Acq: 13 Mar 2019 15:58

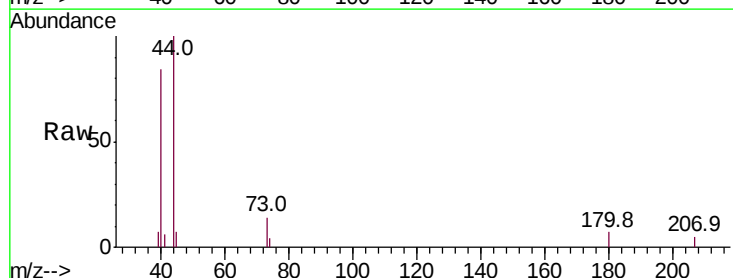
Tgt Ion:180 Resp: 104

Ion Ratio Lower Upper

180 100

182 0.0 50.2 150.7#

145 0.0 17.5 52.5#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

