

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032619\
 Data File : VF062147.D
 Acq On : 26 Mar 2019 15:49
 Operator : VA/AP
 Sample : K2086-04
 Misc : 11.16g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-14

Quant Time: Mar 27 05:16:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

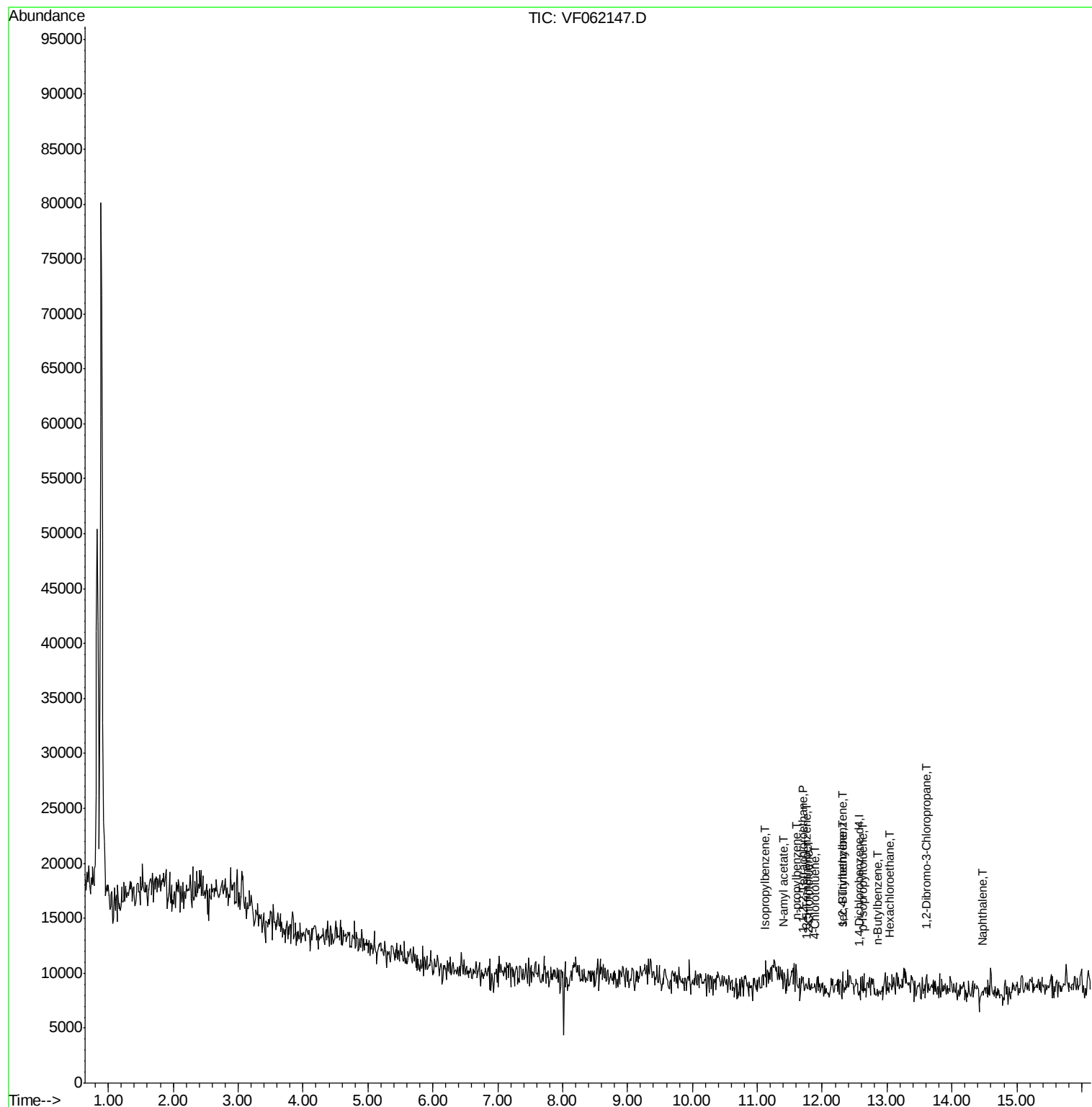
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.91
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.63
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.81
72) 1,4-Dichlorobenzene-d4	12.57	152	60	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.77	65	61	0.00	ug/l	-0.11
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	11.44	95	80	0.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	0.00%	
Target Compounds						
					Qvalue	
73) Isopropylbenzene	11.11	105	73	17.290	ug/l #	47
74) N-amyl acetate	11.42	43	165	164.016	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	11.71	83	67	92.423	ug/l #	25
78) n-propylbenzene	11.61	91	110	22.438	ug/l #	53
79) 2-Chlorotoluene	11.80	91	70	25.689	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.74	105	94	27.068	ug/l #	24
82) 4-Chlorotoluene	11.88	91	67	23.981	ug/l #	40
84) 1,2,4-Trimethylbenzene	12.32	105	98	28.786	ug/l #	26
85) sec-Butylbenzene	12.32	105	98	20.838	ug/l #	56
86) p-Isopropyltoluene	12.61	119	79	19.389	ug/l #	50
89) n-Butylbenzene	12.85	91	63	16.207	ug/l #	27
90) Hexachloroethane	13.04	117	98	101.012	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.62	75	60	546.252	ug/l #	1
95) Naphthalene	14.48	128	61	27.755	ug/l #	70

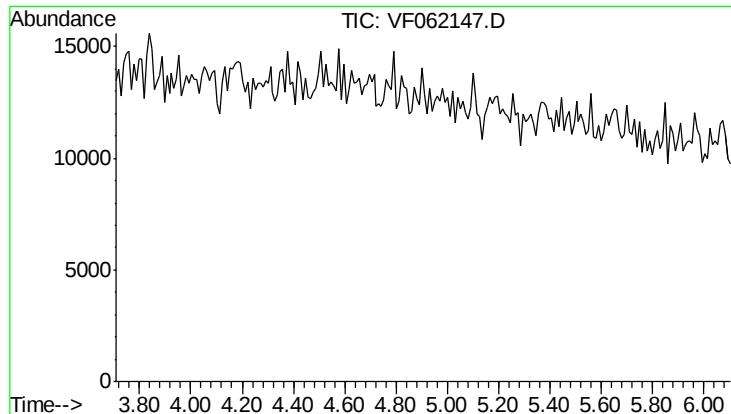
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.91 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Tot Ion: 168

Sig Exp Ratio

168 100

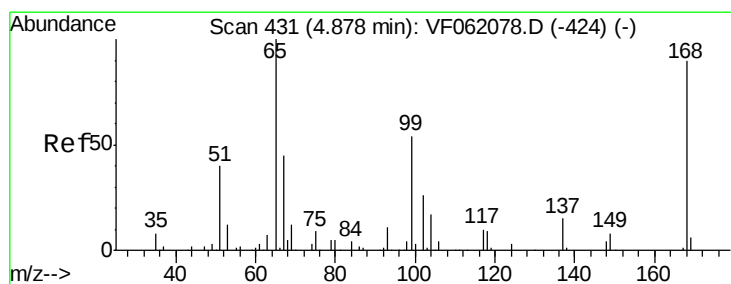
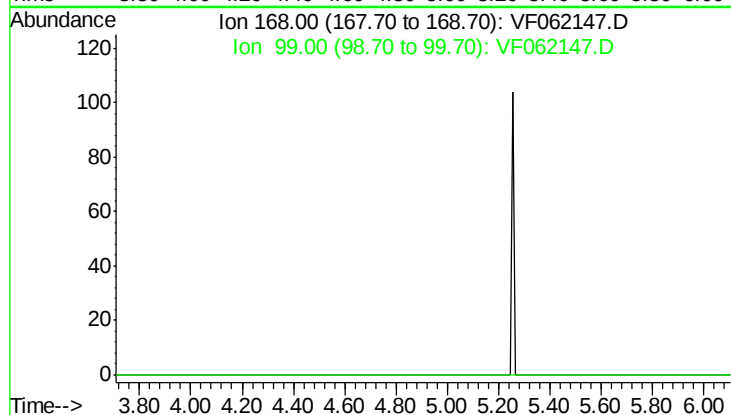
99 47.8

Instrument :

MSVOA_F

ClientSampleId :

CS-14



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.77 min Scan# 420

Delta R.T. -0.11 min

Lab File: VF062147.D

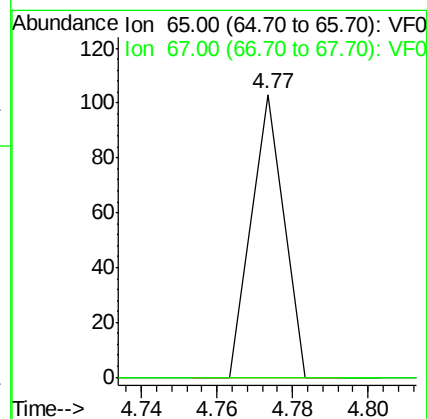
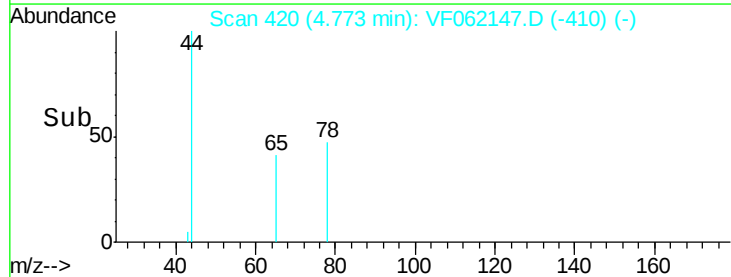
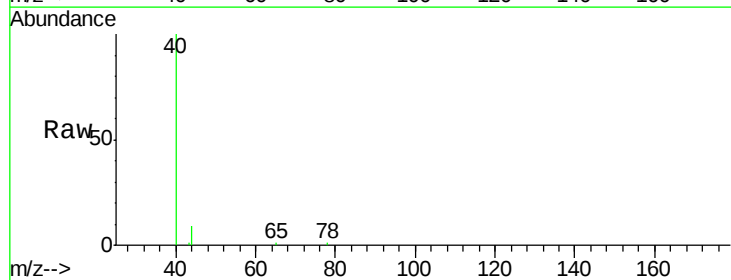
Acq: 26 Mar 2019 15:49

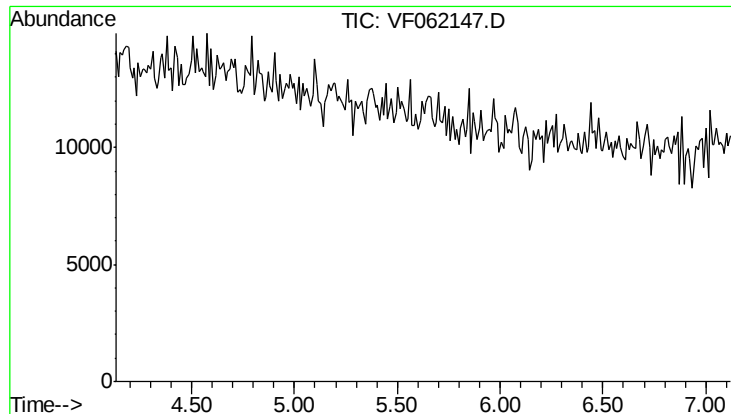
Tgt Ion: 65 Resp: 61

Ion Ratio Lower Upper

65 100

67 0.0 0.0 106.2

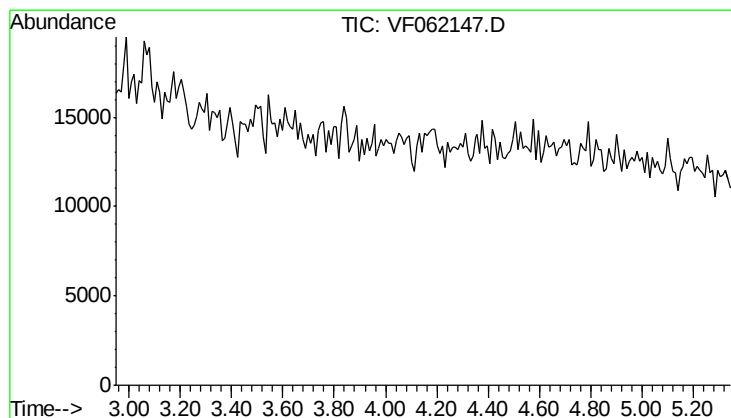
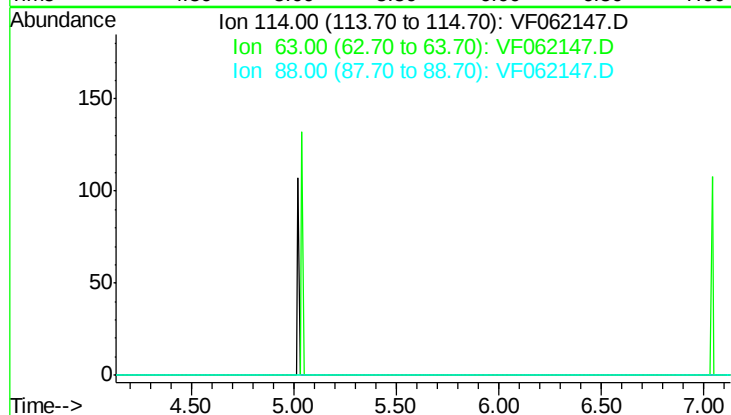




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.63 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49

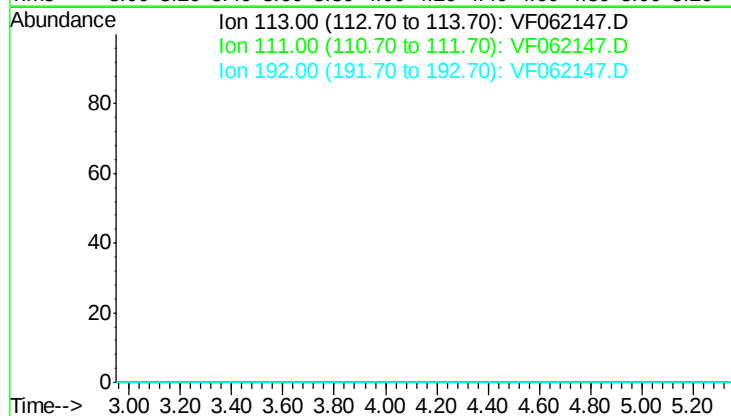
Instrument :
 MSVOA_F
 ClientSampleId :
 CS-14

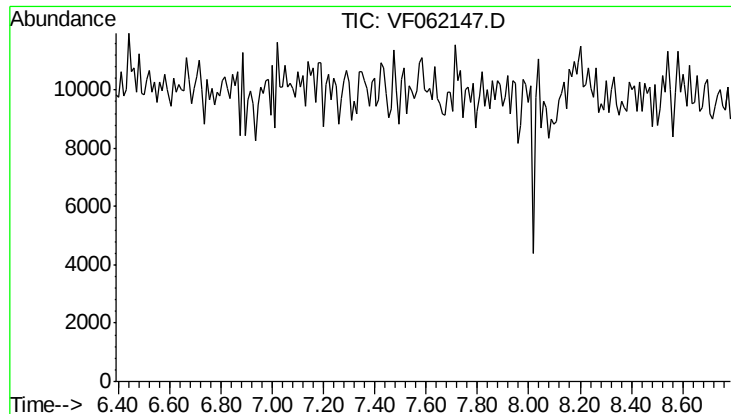
Tot Ion: 114
 Sig Exp Ratio
 114 100
 63 18.9
 88 18.2



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.15 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49

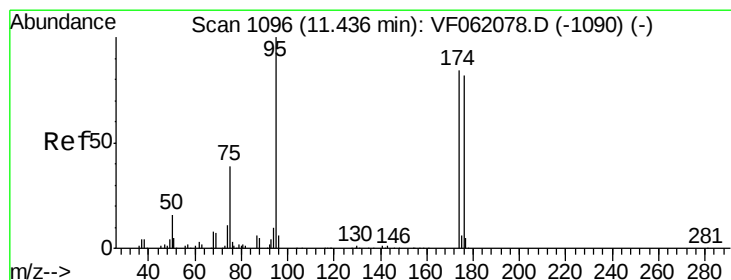
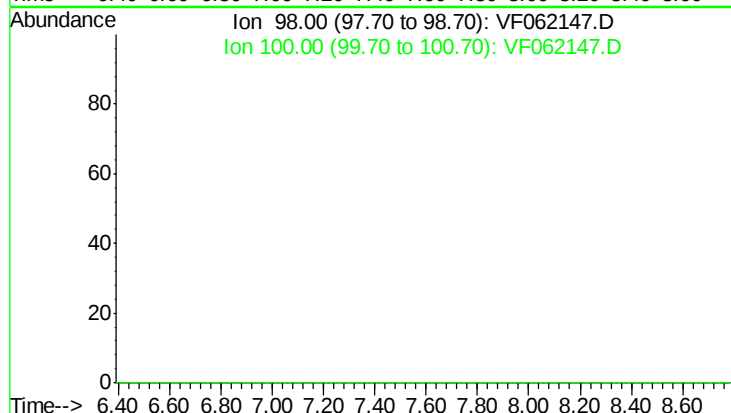
Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 94.2
 192 15.4





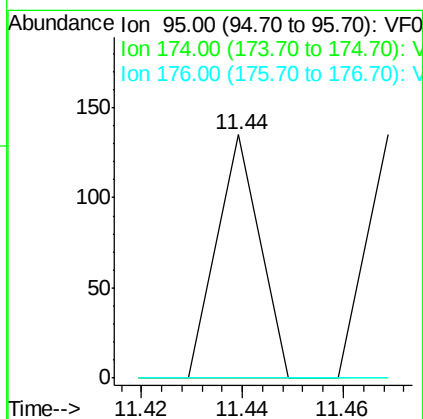
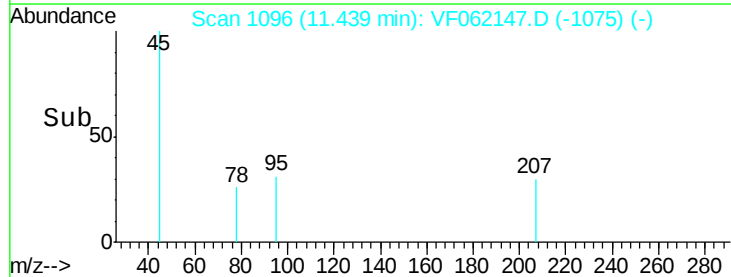
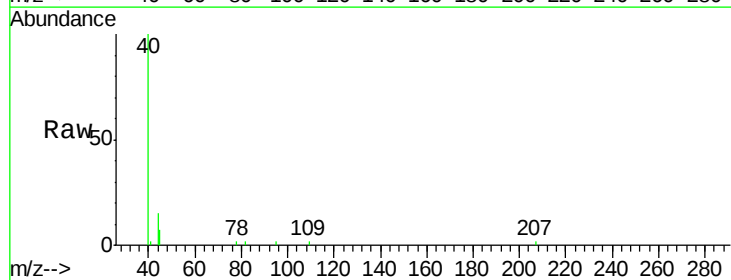
#50
 Toluene-d8
 Concen: 0.000 ug/l
 Expected RT: 7.59 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49
 Tot Ion: 98
 Sig Exp Ratio
 98 100
 100 71.3

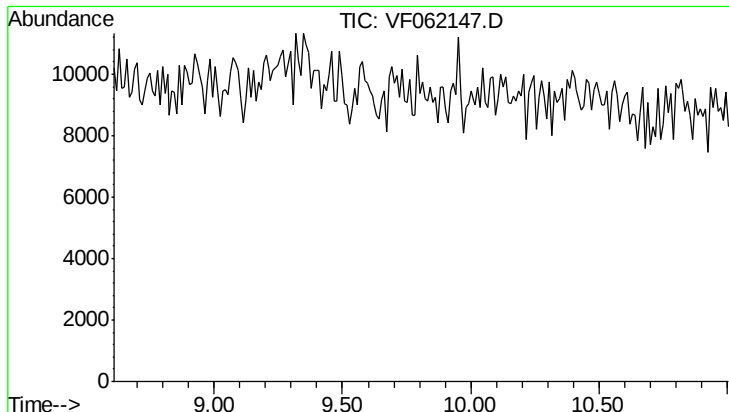
Instrument :
 MSVOA_F
 ClientSampleId :
 CS-14



#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 RT: 11.44 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49

Tgt Ion	Ratio	Lower	Upper
95	100		
174	0.0	0.0	168.2
176	0.0	0.0	164.2



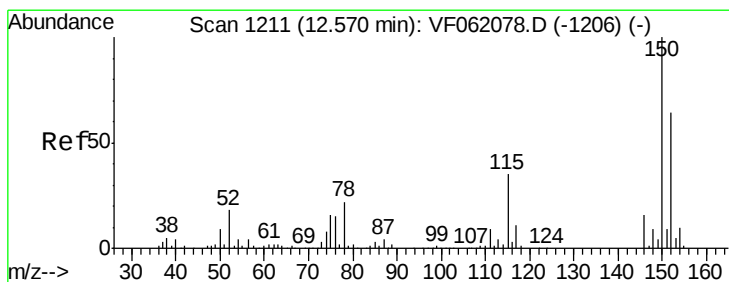
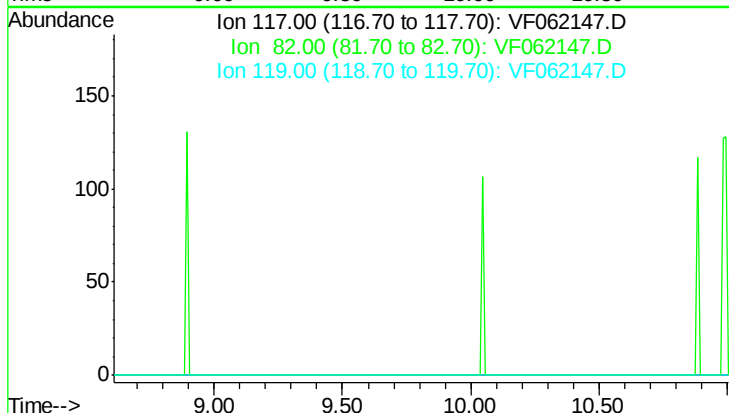


#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.81 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49

Instrument :
 MSVOA_F
 ClientSampleId :
 CS-14

Tot Ion: 117

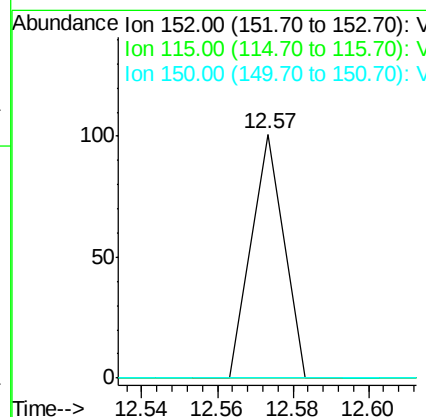
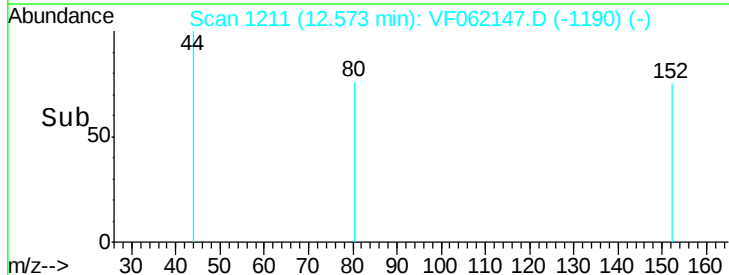
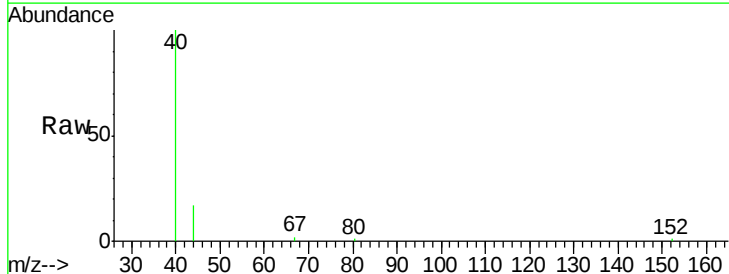
Sig	Exp Ratio
117	100
82	49.0
119	31.8

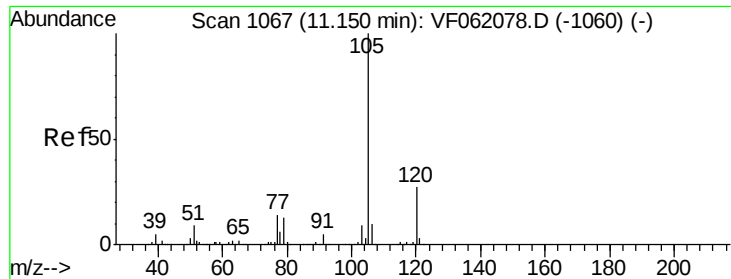


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. 0.00 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49

Tgt Ion: 152 Resp: 60

Ion	Ratio	Lower	Upper
152	100		
115	0.0	27.7	83.1#
150	0.0	0.0	313.2





#73

Isopropylbenzene

Concen: 17.290 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.04 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Instrument :

MSVOA_F

ClientSampled :

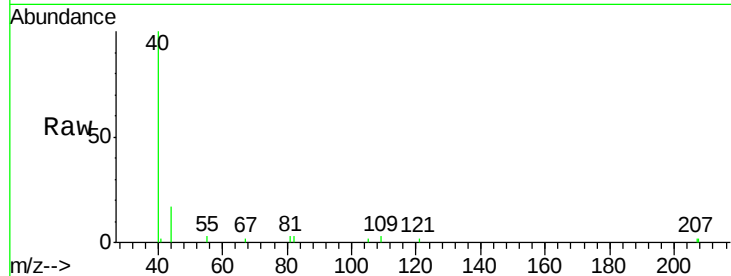
CS-14

Tot Ion:105 Resp: 73

Ion Ratio Lower Upper

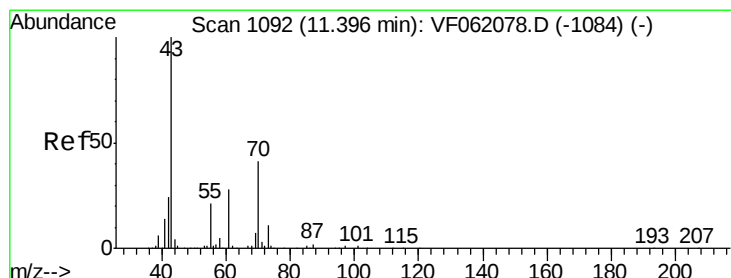
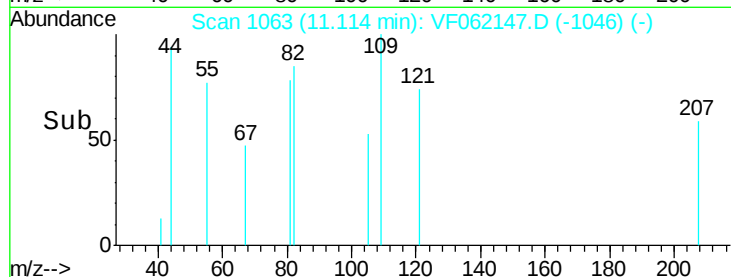
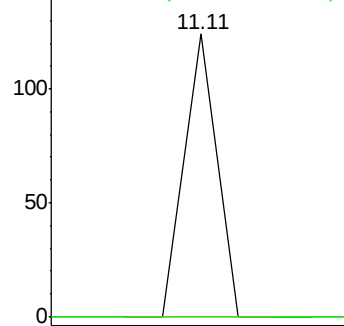
105 100

120 0.0 13.8 41.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 164.016 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.02 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Tgt Ion: 43 Resp: 165

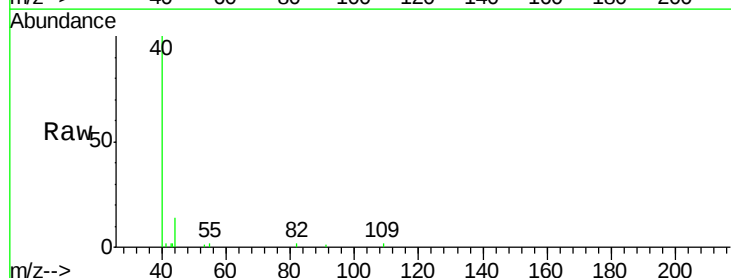
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 49.1 17.1 25.7#

61 0.0 22.2 33.2#

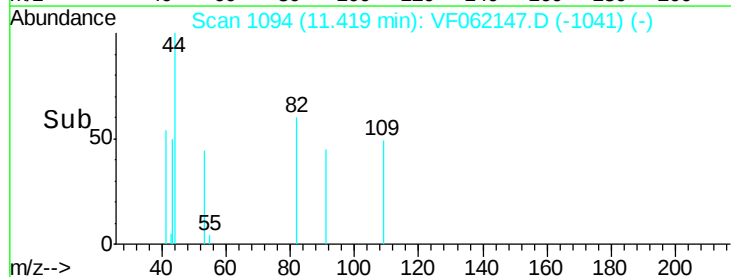
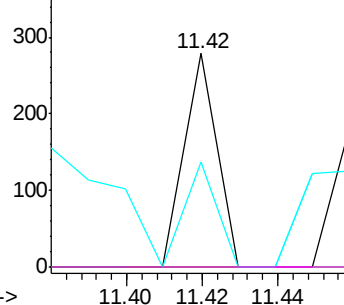


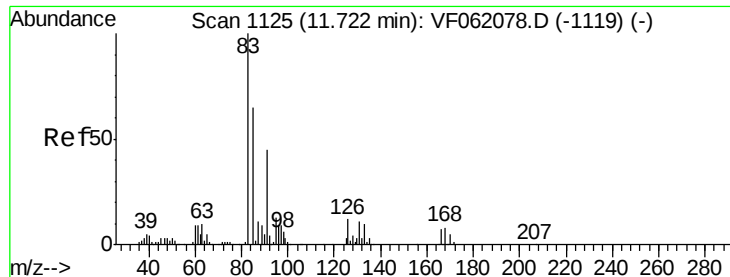
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 92.423 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.02 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

CS-14

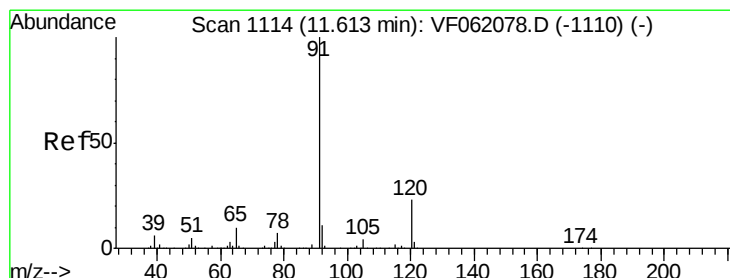
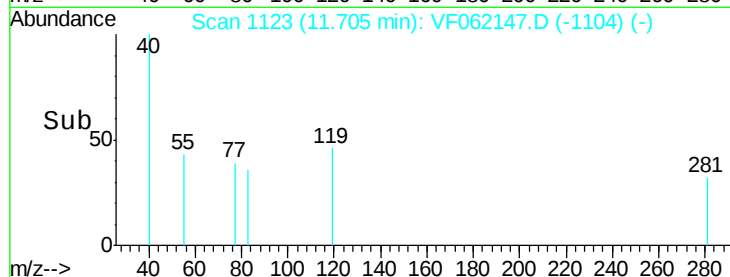
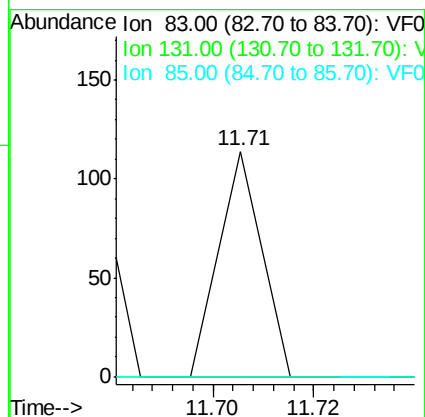
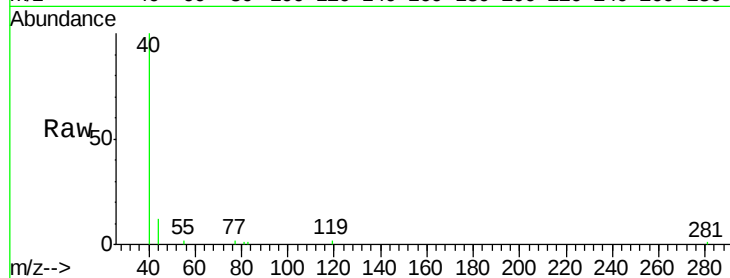
Tot Ion: 83 Resp: 67

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

85 0.0 32.6 98.0#



#78

n-propylbenzene

Concen: 22.438 ug/l

RT: 11.61 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF062147.D

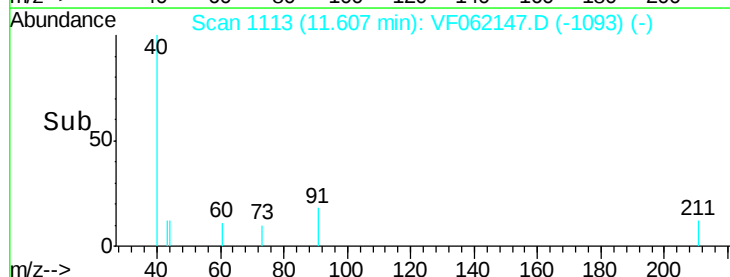
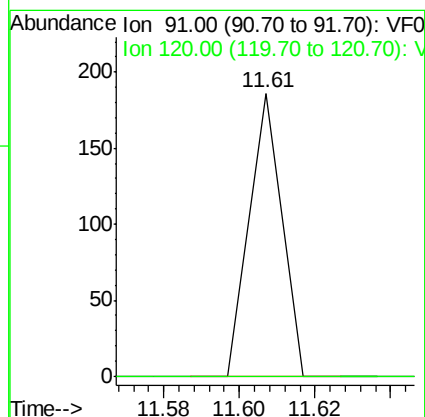
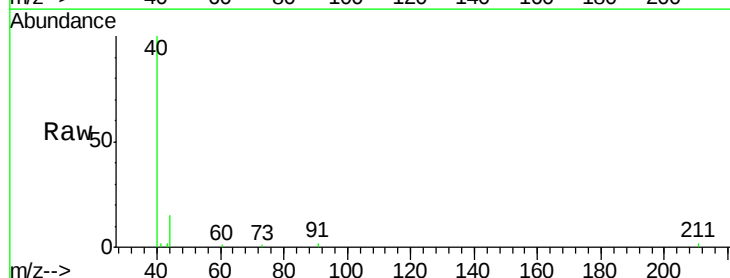
Acq: 26 Mar 2019 15:49

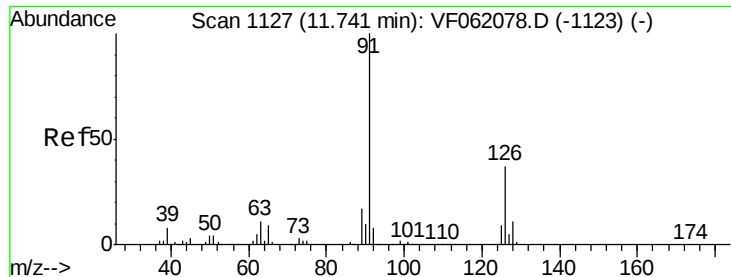
Tgt Ion: 91 Resp: 110

Ion Ratio Lower Upper

91 100

120 0.0 11.3 33.8#





#79

2-Chlorotoluene

Concen: 25.689 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.06 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Instrument :

MSVOA_F

ClientSampled :

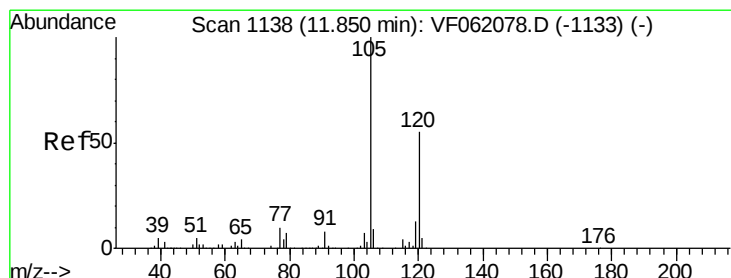
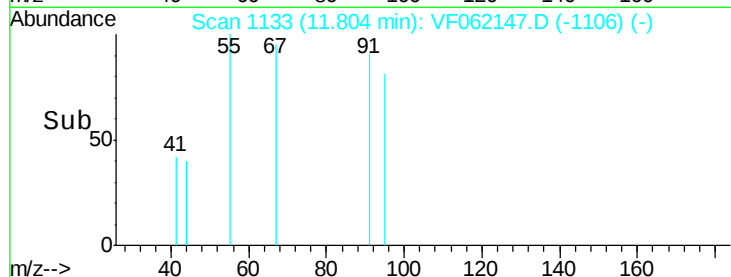
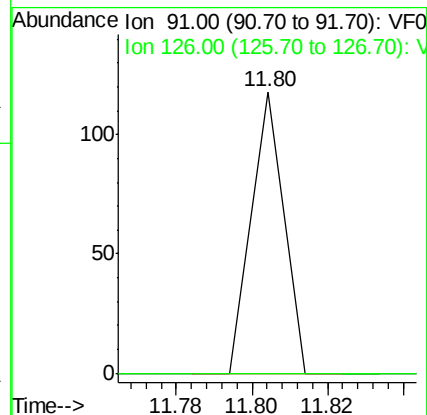
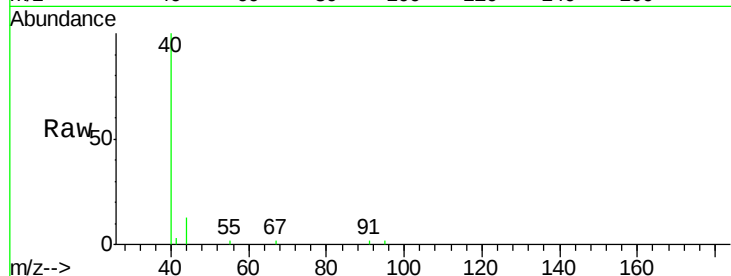
CS-14

Tot Ion: 91 Resp: 70

Ion Ratio Lower Upper

91 100

126 0.0 18.3 54.8#



#80

1,3,5-Trimethylbenzene

Concen: 27.068 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. -0.11 min

Lab File: VF062147.D

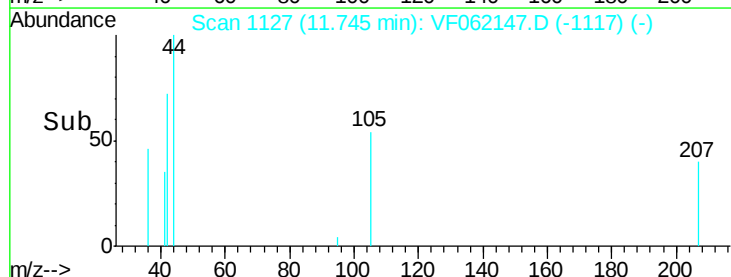
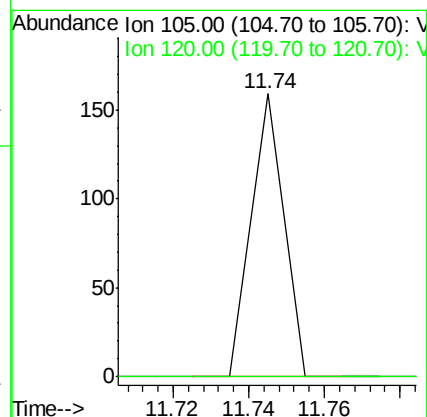
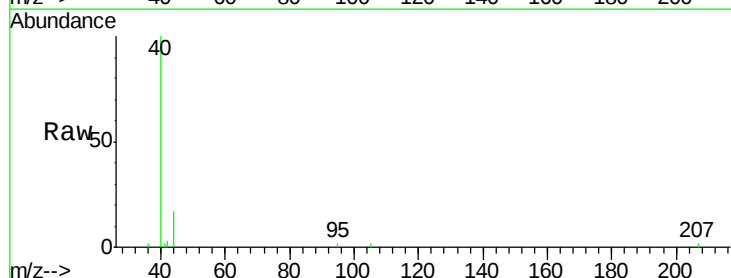
Acq: 26 Mar 2019 15:49

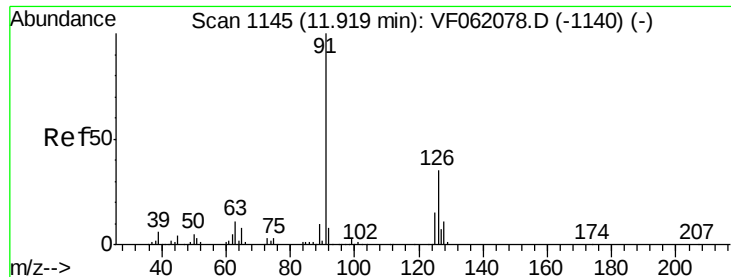
Tgt Ion: 105 Resp: 94

Ion Ratio Lower Upper

105 100

120 0.0 27.8 83.3#

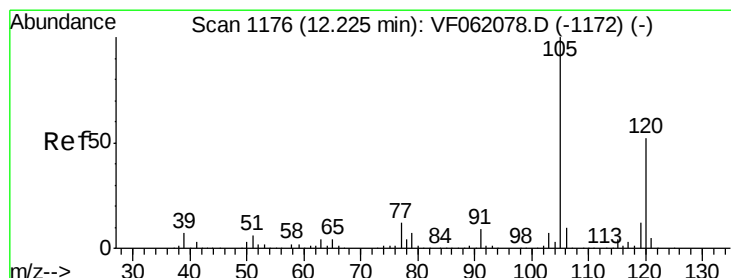
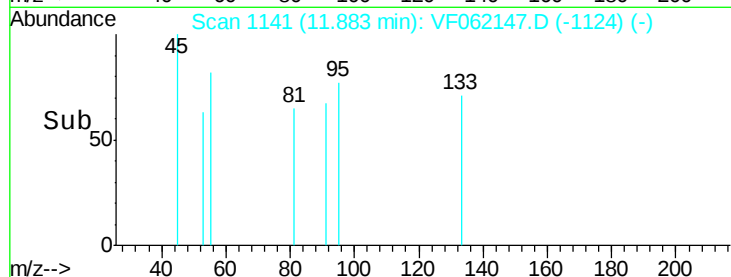
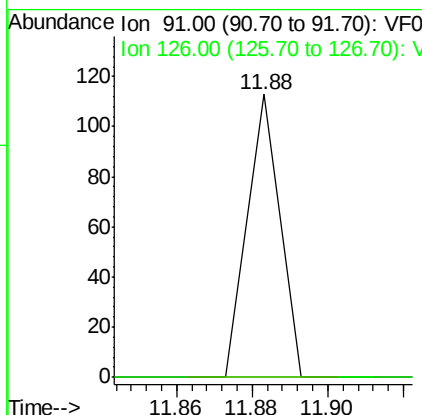
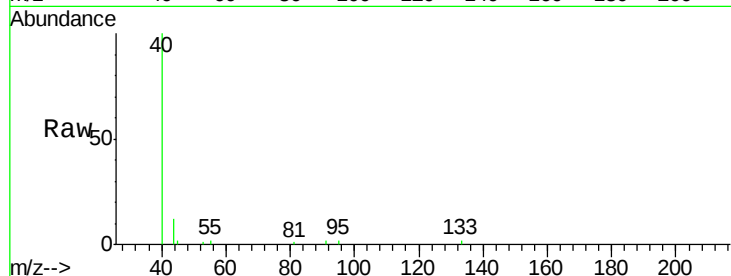




#82
 4-Chlorotoluene
 Concen: 23.981 ug/l
 RT: 11.88 min Scan# 1141
 Delta R.T. -0.04 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49

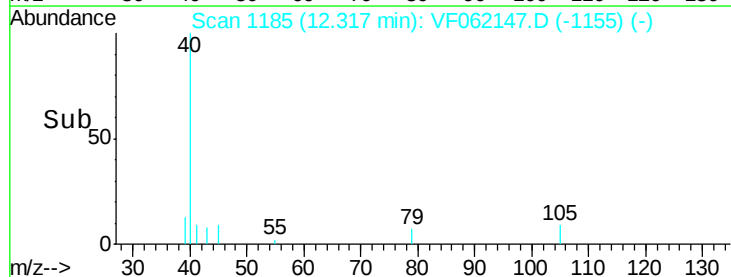
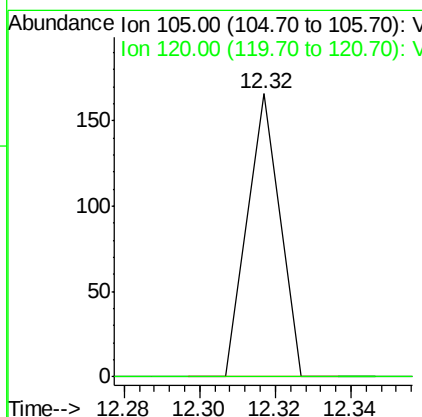
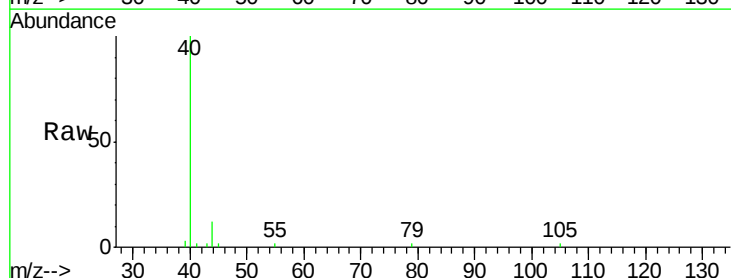
Instrument :
 MSVOA_F
 ClientSampled :
 CS-14

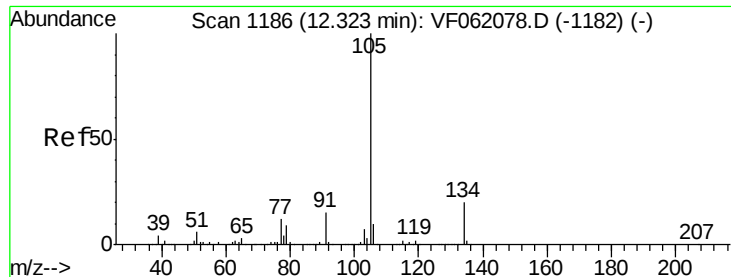
Tot Ion: 91 Resp: 67
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.2 51.6#



#84
 1,2,4-Trimethylbenzene
 Concen: 28.786 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. 0.09 min
 Lab File: VF062147.D
 Acq: 26 Mar 2019 15:49

Tgt Ion: 105 Resp: 98
 Ion Ratio Lower Upper
 105 100
 120 0.0 26.1 78.2#





#85

sec-Butylbenzene

Concen: 20.838 ug/l

RT: 12.32 min Scan# 1185

Delta R.T. -0.01 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Instrument :

MSVOA_F

ClientSampleId :

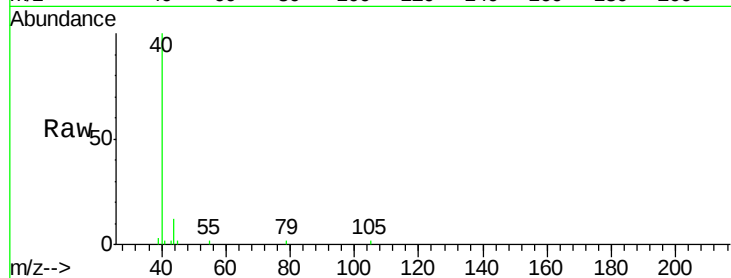
CS-14

Tot Ion:105 Resp: 98

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.32

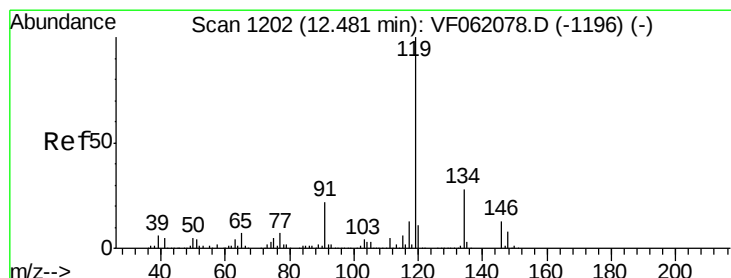
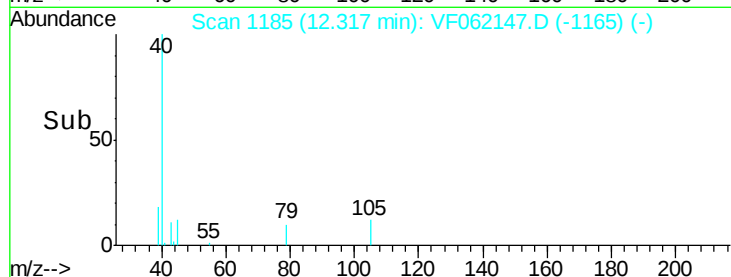
150

100

50

0

Time--> 12.28 12.30 12.32 12.34



#86

p-Isopropyltoluene

Concen: 19.389 ug/l

RT: 12.61 min Scan# 1215

Delta R.T. 0.13 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

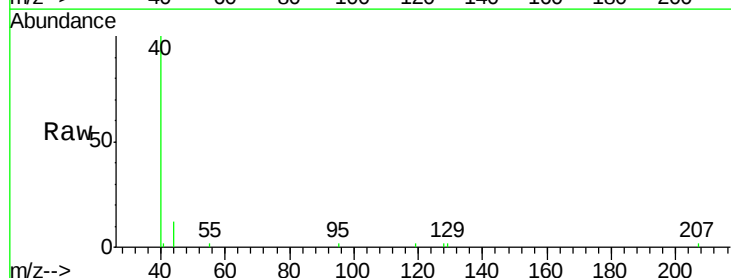
Tgt Ion:119 Resp: 79

Ion Ratio Lower Upper

119 100

134 0.0 14.0 42.0#

91 0.0 10.8 32.4#



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

12.61

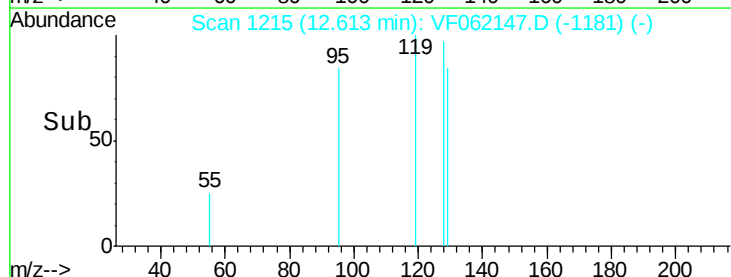
150

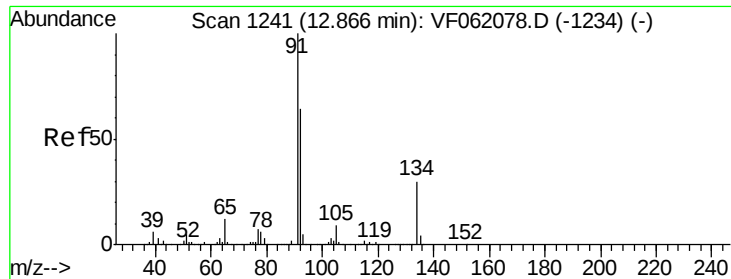
100

50

0

Time--> 12.58 12.60 12.62 12.64





#89

n-Butylbenzene

Concen: 16.207 ug/l

RT: 12.85 min Scan# 1239

Delta R.T. -0.02 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Instrument :

MSVOA_F

ClientSampled :

CS-14

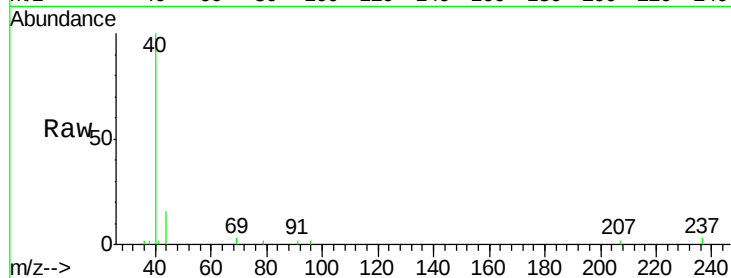
Tot Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

92 0.0 31.9 95.5#

134 0.0 14.9 44.9#



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

150

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

12.82 12.84 12.86 12.88

12.85

100

50

0

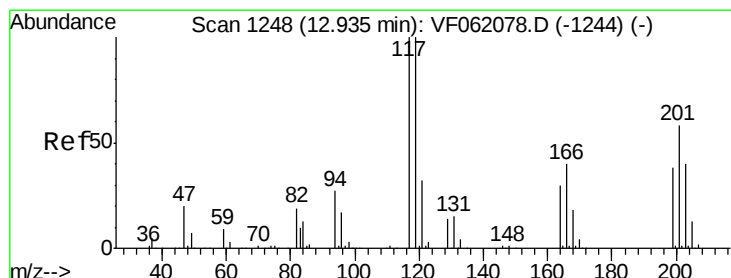
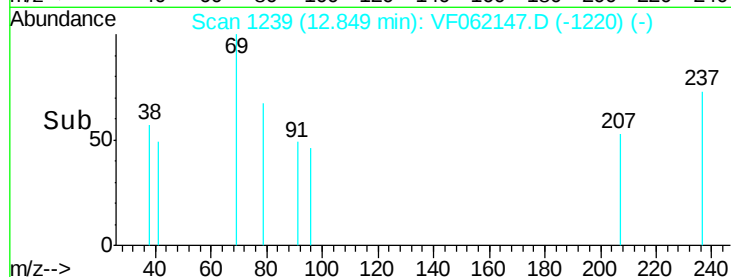
12.82 12.84 12.86 12.88

12.85

100

50

0



#90

Hexachloroethane

Concen: 101.012 ug/l

RT: 13.04 min Scan# 1258

Delta R.T. 0.10 min

Lab File: VF062147.D

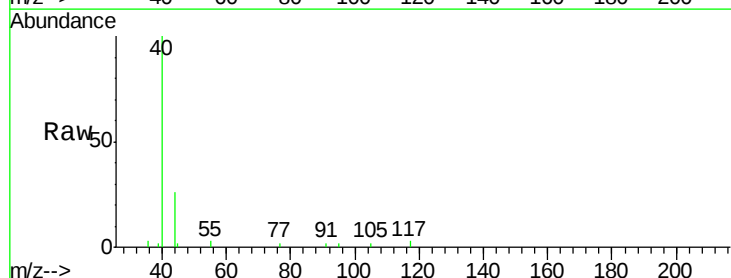
Acq: 26 Mar 2019 15:49

Tgt Ion: 117 Resp: 98

Ion Ratio Lower Upper

117 100

201 0.0 28.7 86.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

150

100

50

0

13.00 13.02 13.04 13.06

13.04

150

100

50

0

13.00 13.02 13.04 13.06

13.04

150

100

50

0

13.00 13.02 13.04 13.06

13.04

150

100

50

0

13.00 13.02 13.04 13.06

13.04

150

100

50

0

13.00 13.02 13.04 13.06

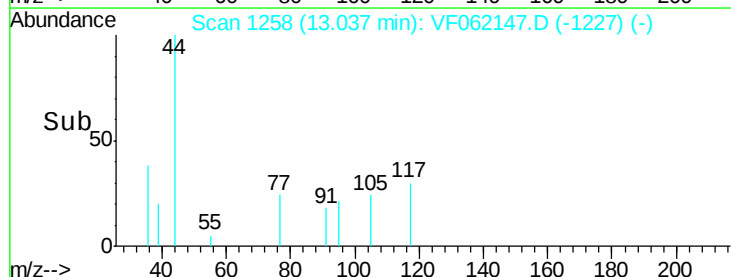
13.04

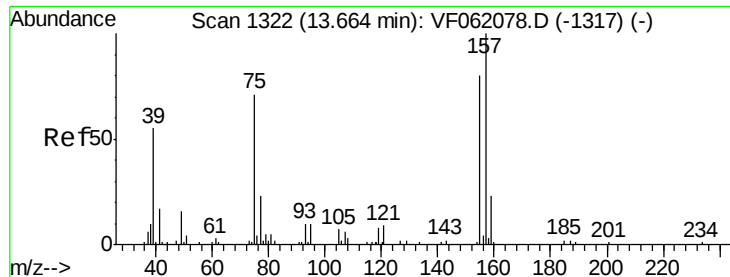
150

100

50

0





#92

1,2-Dibromo-3-Chloropropane

Concen: 546.252 ug/l

RT: 13.62 min Scan# 1317

Delta R.T. -0.05 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

Instrument :

MSVOA_F

ClientSampled :

CS-14

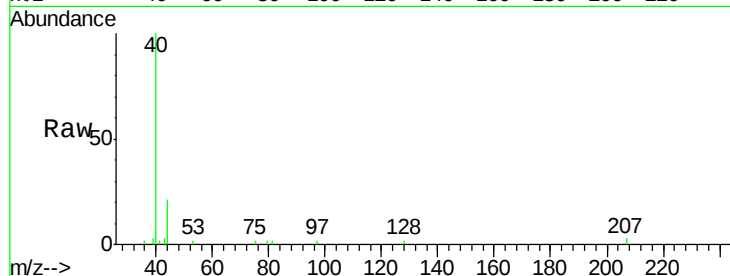
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 56.1 168.4#

157 0.0 70.4 211.2#



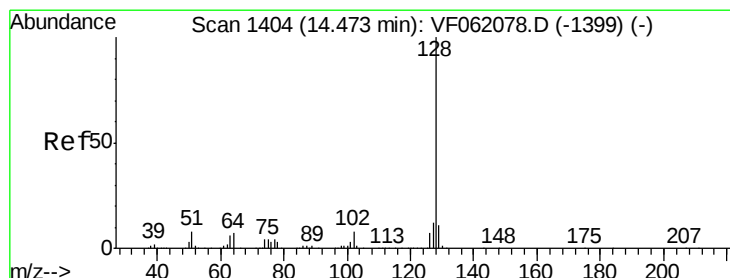
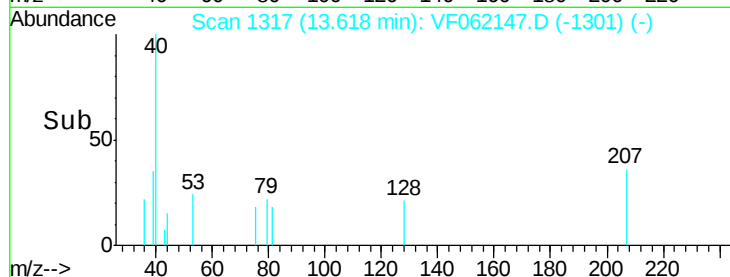
Abundance Ion 75.00 (74.70 to 75.70): VF062078.D (-1317) (-)

Ion 155.00 (154.70 to 155.70): VF062078.D (-1317) (-)

Ion 157.00 (156.70 to 157.70): VF062078.D (-1317) (-)

13.62

Time--> 13.58 13.60 13.62 13.64



#95

Naphthalene

Concen: 27.755 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.00 min

Lab File: VF062147.D

Acq: 26 Mar 2019 15:49

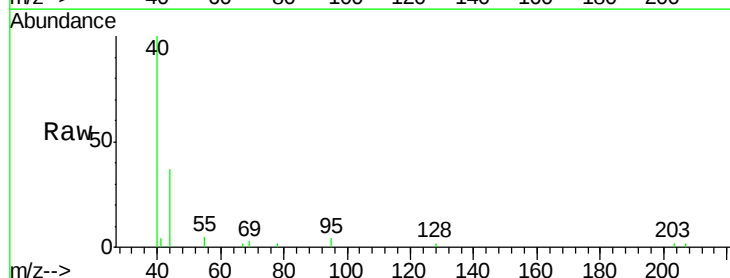
Tgt Ion: 128 Resp: 61

Ion Ratio Lower Upper

128 100

127 0.0 9.5 14.3#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VF062078.D (-1399) (-)

Ion 127.00 (126.70 to 127.70): VF062078.D (-1399) (-)

Ion 129.00 (128.70 to 129.70): VF062078.D (-1399) (-)

14.48

Time--> 14.46 14.48 14.50

