

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060232.D
 Acq On : 10 Sep 2018 14:03
 Operator : VA/AP
 Sample : J4803-08
 Misc : 5.04g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-G6

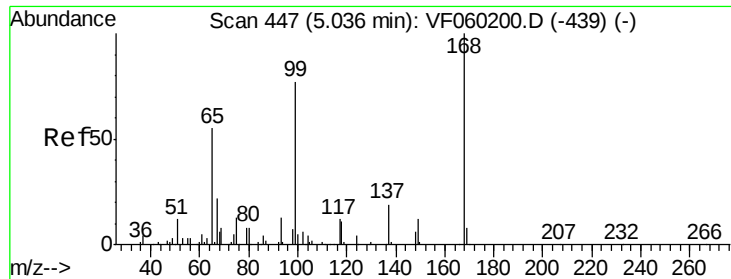
Quant Time: Sep 11 07:12:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F090618S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 07 10:44:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	181540	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	242893	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	247827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	153470	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	133357	42.05	ug/l	0.00
Spiked Amount			Recovery	=	84.10%	
35) Dibromofluoromethane	4.30	113	104596	43.95	ug/l	0.00
Spiked Amount			Recovery	=	87.90%	
50) Toluene-d8	7.71	98	218542	36.80	ug/l	0.00
Spiked Amount			Recovery	=	73.60%	
62) 4-Bromofluorobenzene	11.51	95	153934	45.94	ug/l	0.00
Spiked Amount			Recovery	=	91.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.67	59	918	17.23	ug/l	# 75
13) Acrolein	1.93	56	163	Below	Cal	91
16) Acetone	2.34	43	15693	28.40	ug/l	95
18) Methyl Acetate	2.45	43	6753	6.30	ug/l	98
20) Methylene Chloride	2.28	84	9038	Below	Cal	# 90
23) Vinyl Acetate	3.36	43	189	22.88	ug/l	# 82
26) 2,2-Dichloropropane	3.70	77	124	2.06	ug/l	# 64
37) Ethyl Acetate	4.28	43	62	Below	Cal	# 17
39) Methylcyclohexane	5.76	83	3252	1.36	ug/l	# 37
51) 4-Methyl-2-Pentanone	8.41	43	2329	1.58	ug/l	# 60
56) Ethyl methacrylate	8.77	69	15703	9.47	ug/l	93
59) 2-Hexanone	9.64	43	6719	4.93	ug/l	# 66
74) N-amyl acetate	11.48	43	18073	12.55	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	11.77	83	75994	47.74	ug/l	# 38
81) trans-1,4-Dichloro-2-buten	11.97	75	477	3.69	ug/l	# 1
90) Hexachloroethane	13.00	117	2325	1.10	ug/l	# 14
92) 1,2-Dibromo-3-Chloropropan	13.70	75	5189	12.77	ug/l	# 4
95) Naphthalene	14.52	128	5122	3.45	ug/l	# 34

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060232.D

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ClientSampleId :

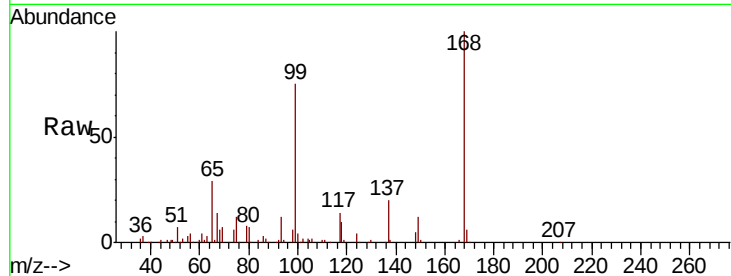
EP1-Q2-G6

Tot Ion:168 Resp: 181540

Ion Ratio Lower Upper

168 100

99 75.3 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

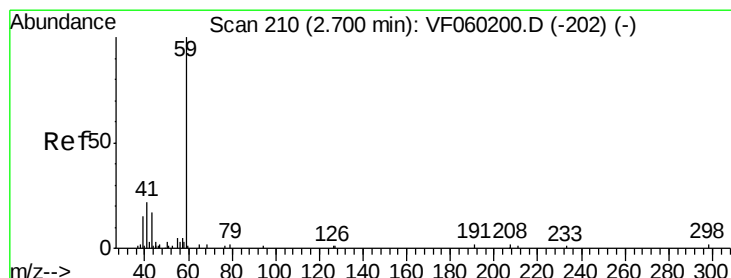
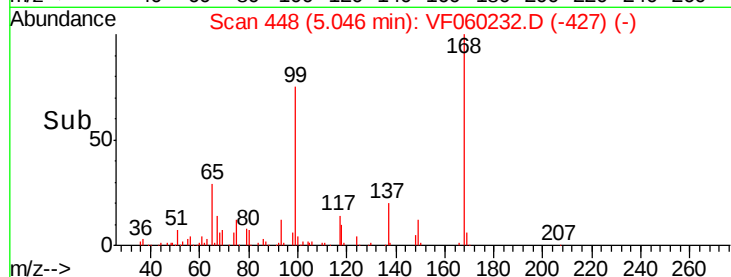
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 17.23 ug/l

RT: 2.67 min Scan# 207

Delta R.T. -0.03 min

Lab File: VF060232.D

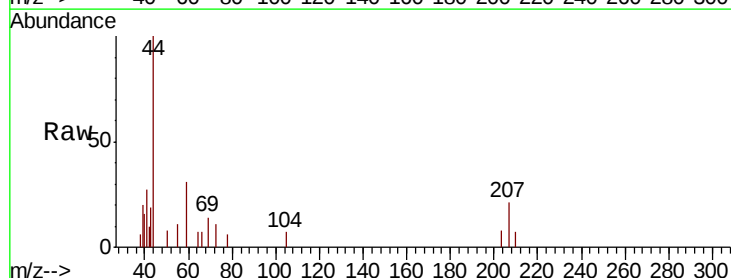
Acq: 10 Sep 2018 14:03

Tgt Ion: 59 Resp: 918

Ion Ratio Lower Upper

59 100

57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

500

400

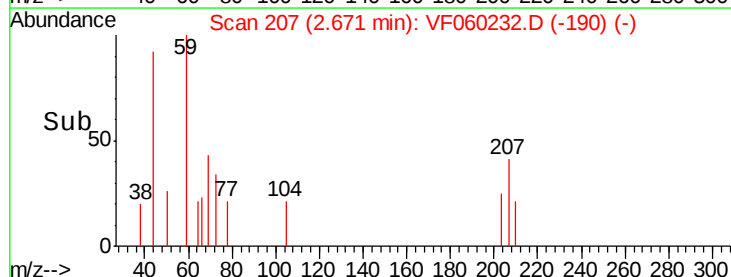
300

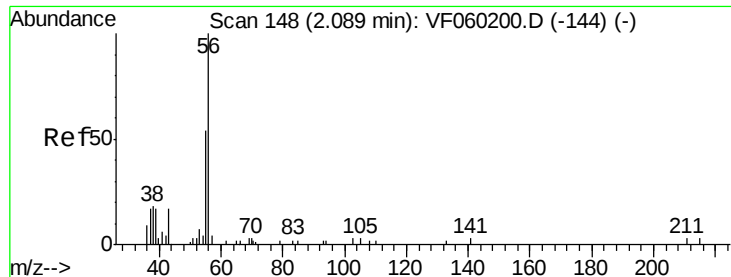
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 1.93 min Scan# 132

Delta R.T. -0.16 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

Instrument :

MSVOA_F

ClientSampleId :

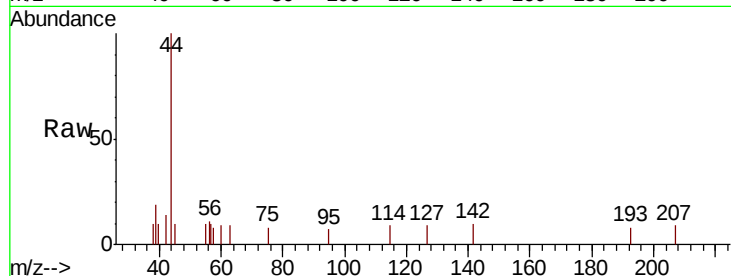
EP1-Q2-G6

Tot Ion: 56 Resp: 163

Ion Ratio Lower Upper

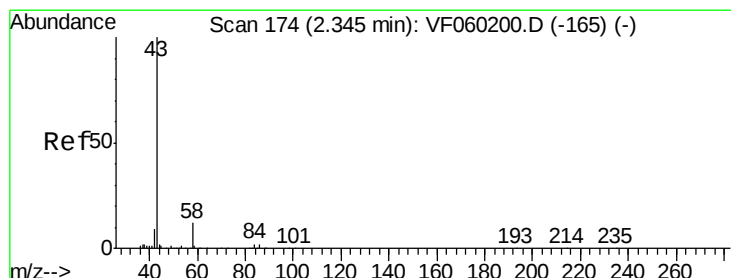
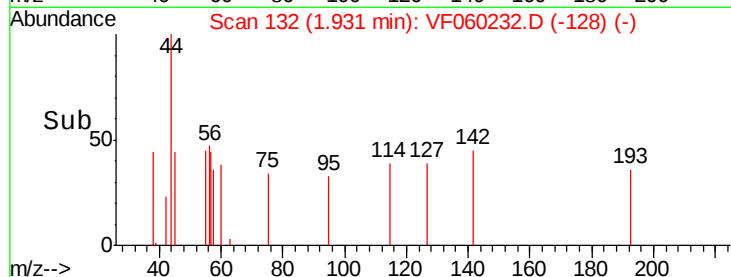
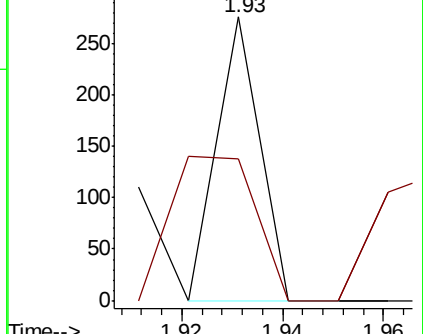
56 100

55 50.0 45.1 67.7



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#16

Acetone

Concen: 28.40 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060232.D

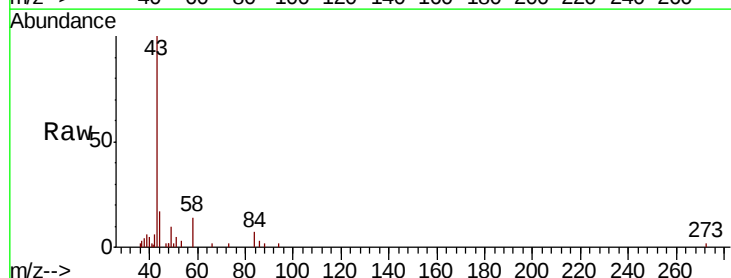
Acq: 10 Sep 2018 14:03

Tgt Ion: 43 Resp: 15693

Ion Ratio Lower Upper

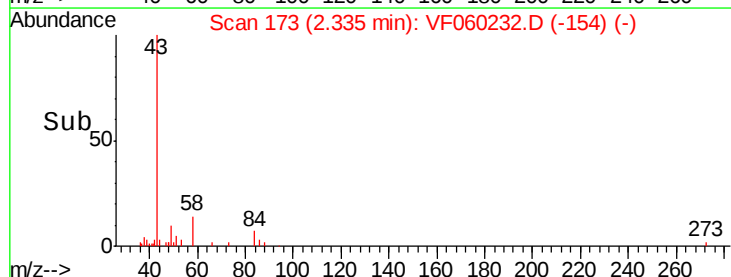
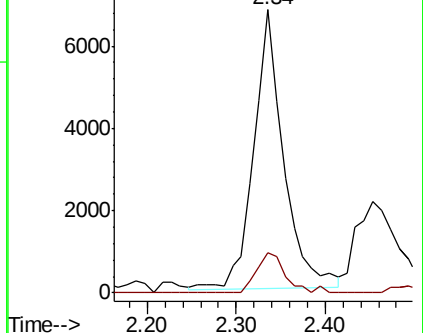
43 100

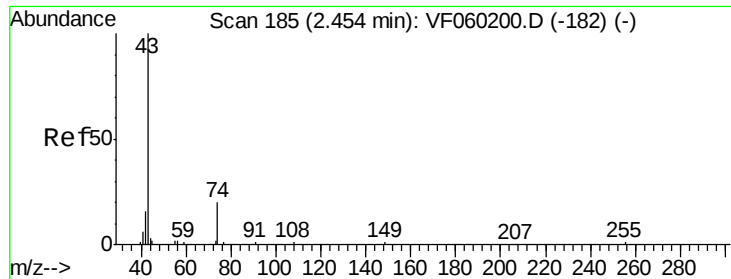
58 14.0 9.7 14.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

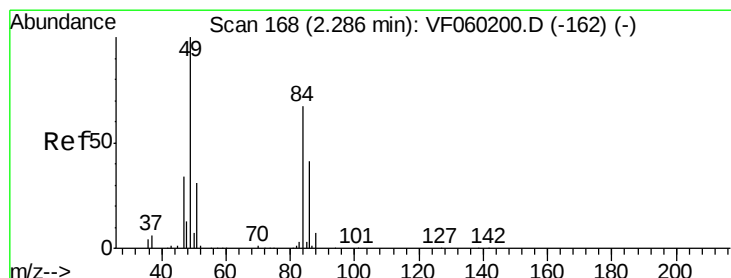
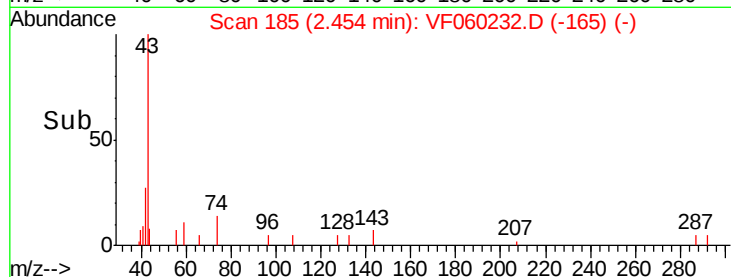
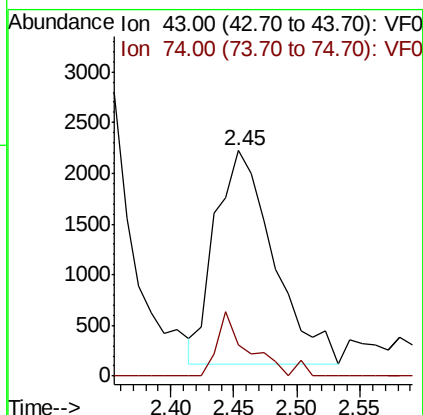
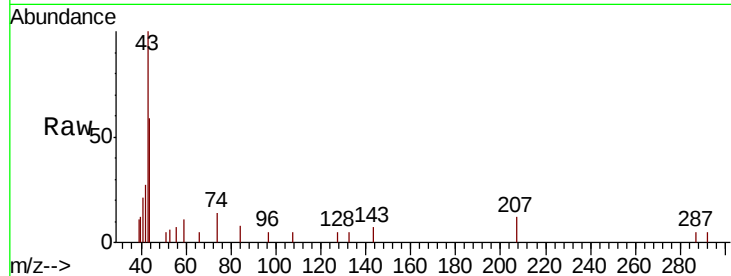




#18
Methyl Acetate
Concen: 6.30 ug/l
RT: 2.45 min Scan# 185
Delta R.T. 0.00 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

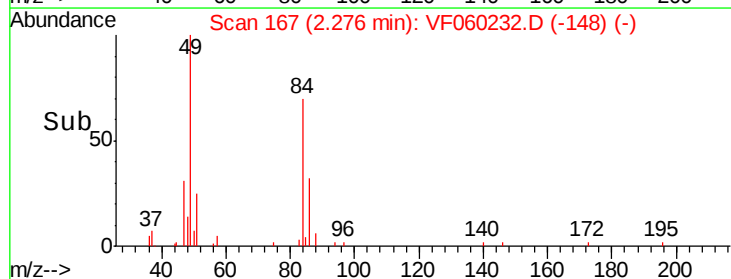
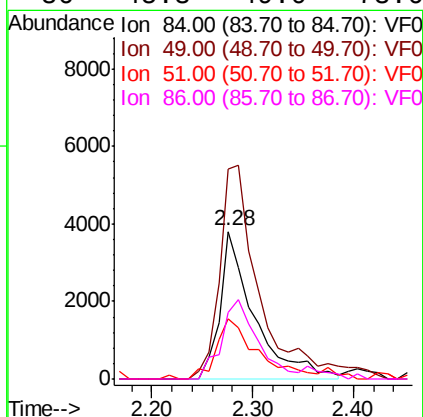
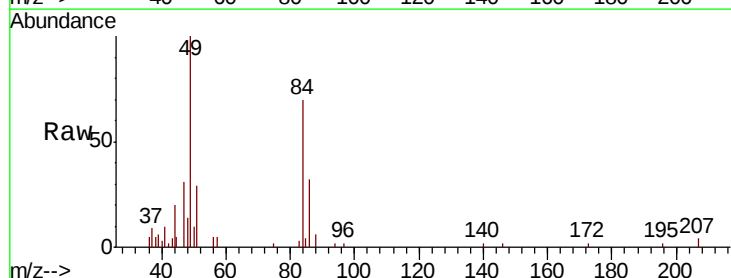
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-G6

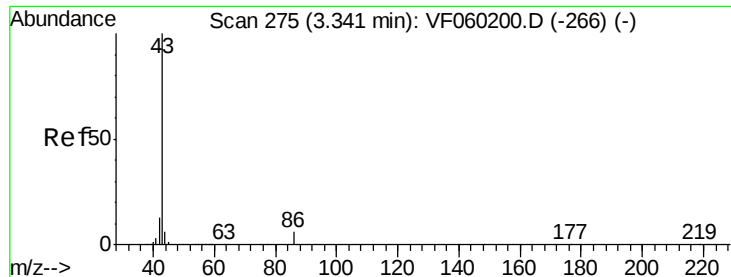
Tot Ion: 43 Resp: 6753
Ion Ratio Lower Upper
43 100
74 14.0 11.9 17.9



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 167
Delta R.T. -0.01 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

Tgt Ion: 84 Resp: 9038
Ion Ratio Lower Upper
84 100
49 142.3 120.1 180.1
51 40.8 37.0 55.6
86 45.3 49.0 73.6#





#23

Vinyl Acetate

Concen: 22.88 ug/l

RT: 3.36 min Scan# 277

Delta R.T. 0.02 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

Instrument :

MSVOA_F

ClientSampled :

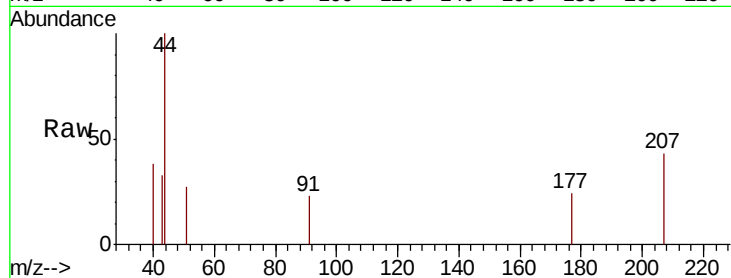
EP1-Q2-G6

Tot Ion: 43 Resp: 189

Ion Ratio Lower Upper

43 100

86 0.0 4.8 7.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.36

150

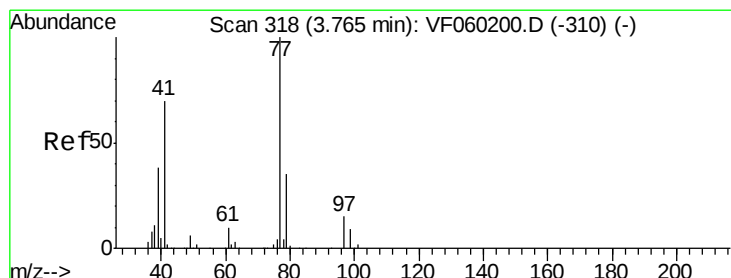
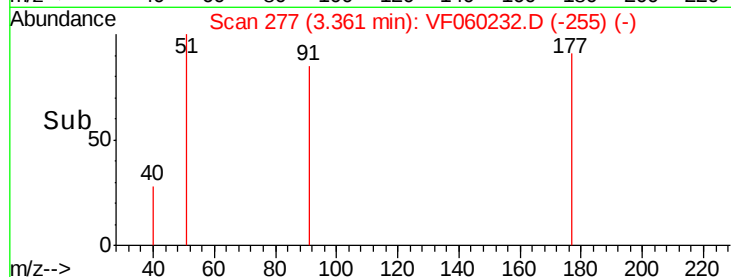
100

50

0

3.32 3.34 3.36 3.38

Time-->



#26

2,2-Dichloropropane

Concen: 2.06 ug/l

RT: 3.70 min Scan# 311

Delta R.T. -0.07 min

Lab File: VF060232.D

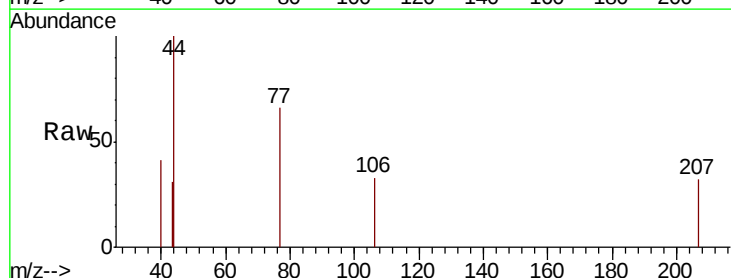
Acq: 10 Sep 2018 14:03

Tgt Ion: 77 Resp: 124

Ion Ratio Lower Upper

77 100

97 0.0 7.5 22.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.70

250

200

150

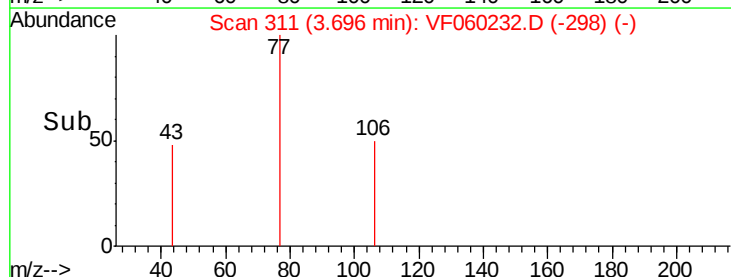
100

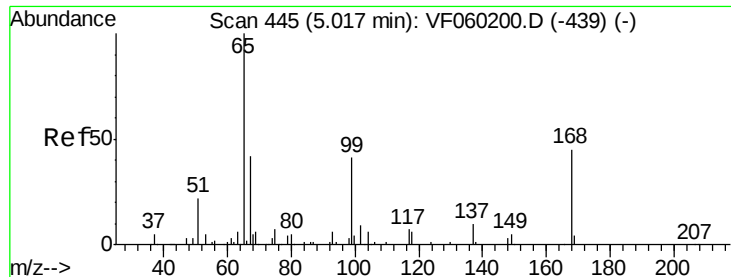
50

0

3.66 3.68 3.70 3.72

Time-->





#33

1,2-Dichloroethane-d4

Concen: 42.05 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.00 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

Instrument :

MSVOA_F

ClientSampled :

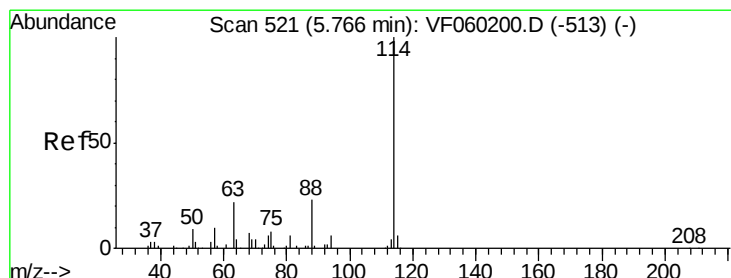
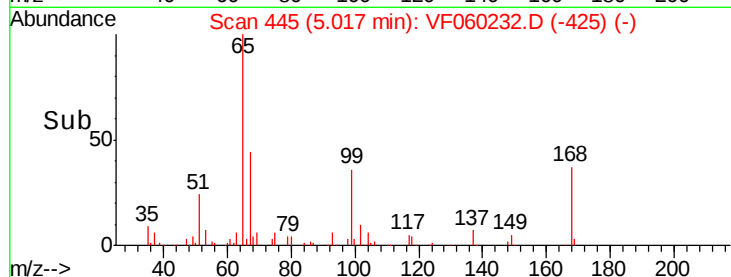
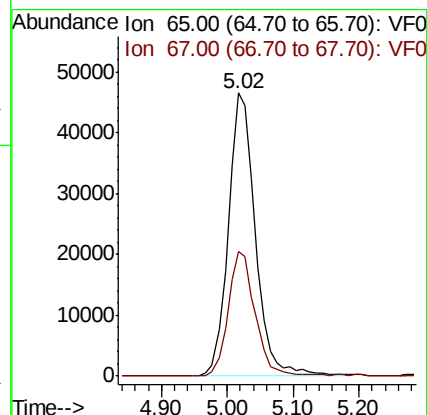
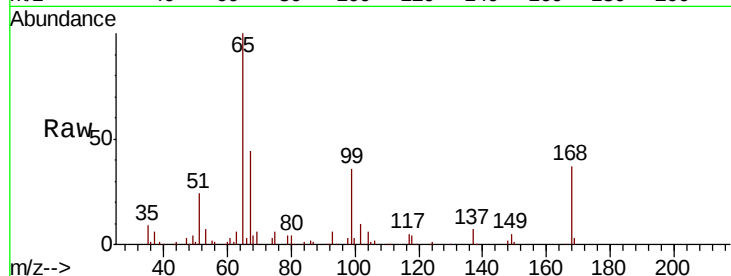
EP1-Q2-G6

Tot Ion: 65 Resp: 133357

Ion Ratio Lower Upper

65 100

67 43.9 0.0 87.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 521

Delta R.T. 0.00 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

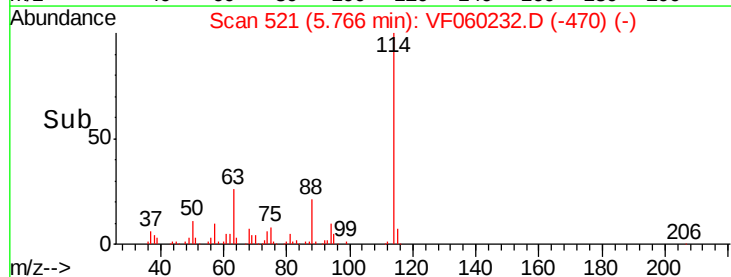
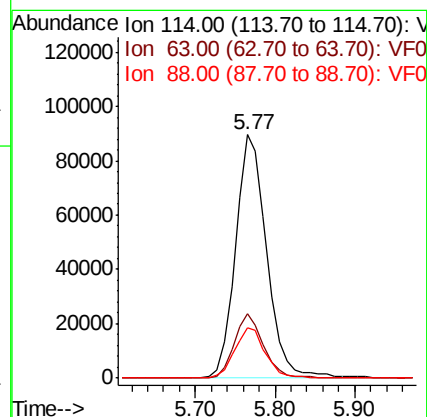
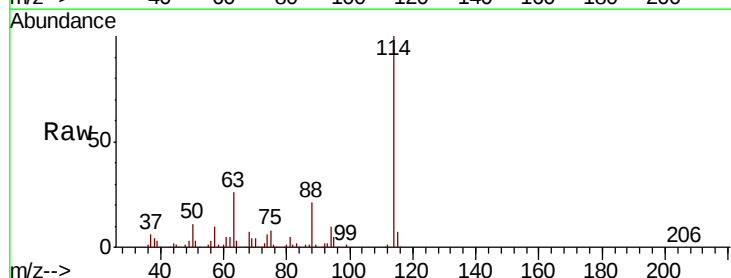
Tgt Ion: 114 Resp: 242893

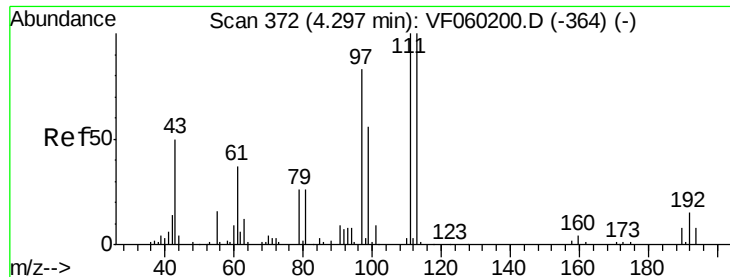
Ion Ratio Lower Upper

114 100

63 26.5 0.0 45.6

88 20.7 0.0 46.4





#35

Dibromofluoromethane

Concen: 43.95 ug/l

RT: 4.30 min Scan# 372

Delta R.T. 0.00 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-G6

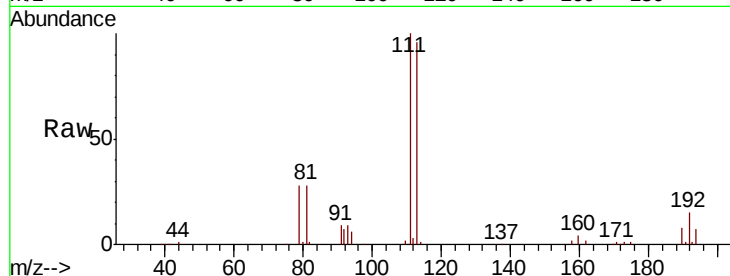
Tot Ion:113 Resp: 104596

Ion Ratio Lower Upper

113 100

111 104.6 80.2 120.2

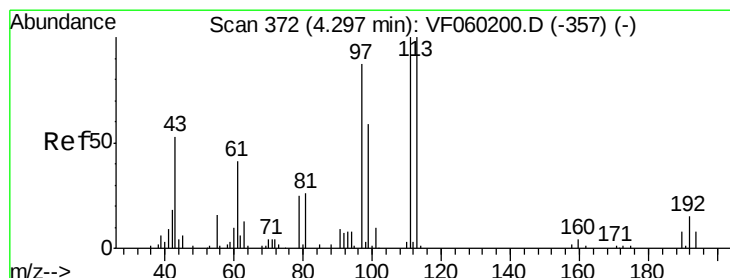
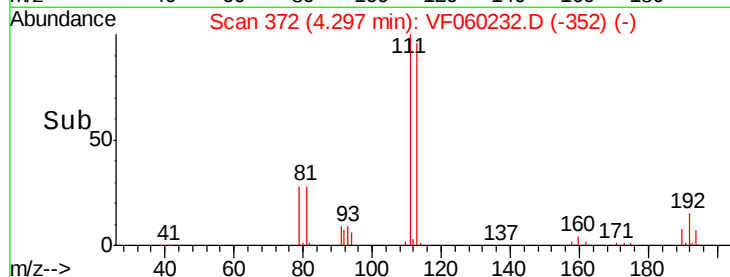
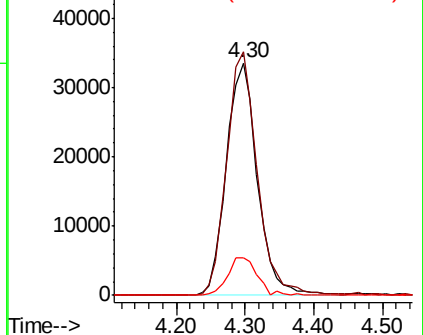
192 15.9 11.8 17.8



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#37

Ethyl Acetate

Concen: Below Cal

RT: 4.28 min Scan# 370

Delta R.T. -0.02 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

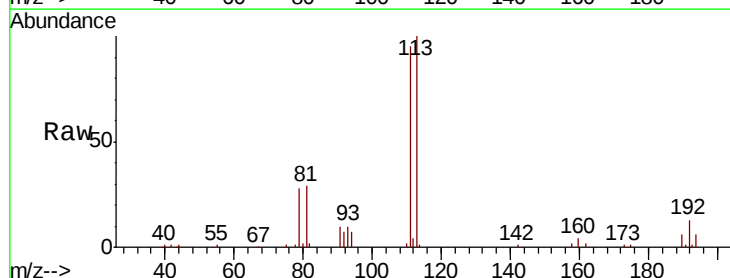
Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

61 0.0 61.6 92.4#

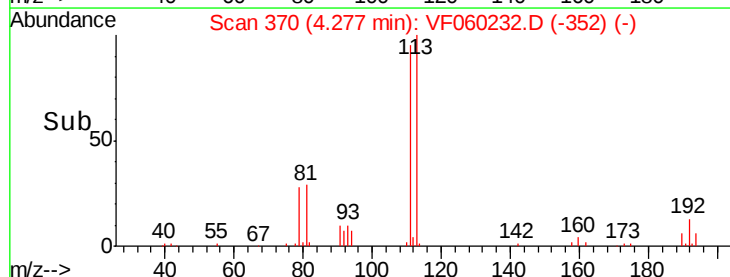
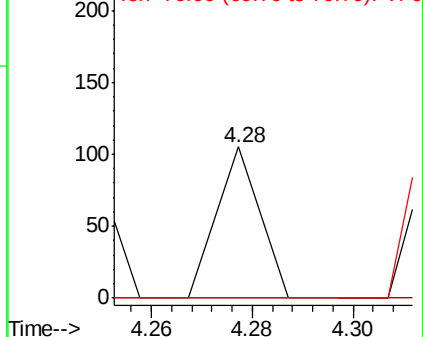
70 0.0 6.9 10.3#

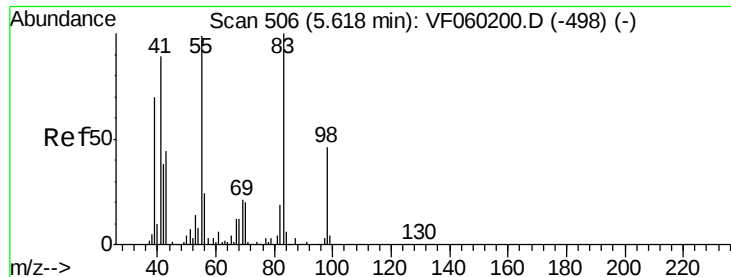


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

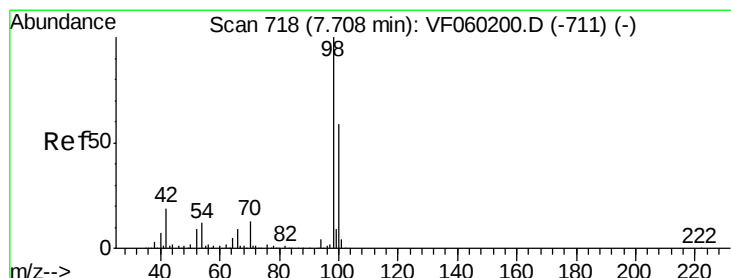
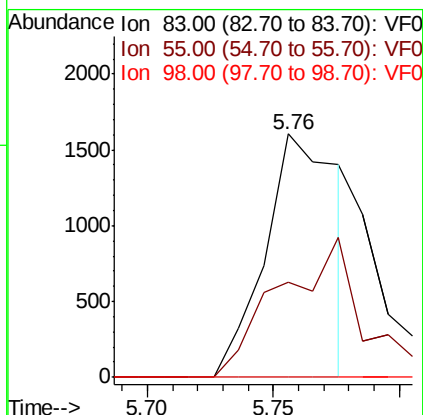
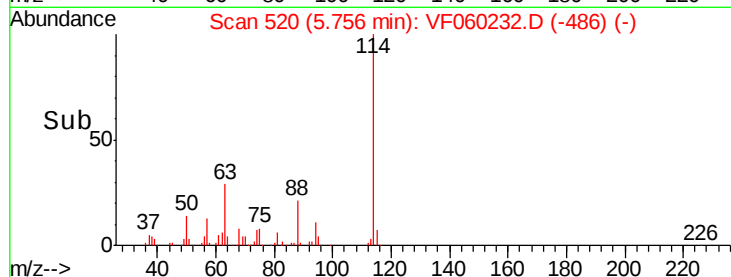
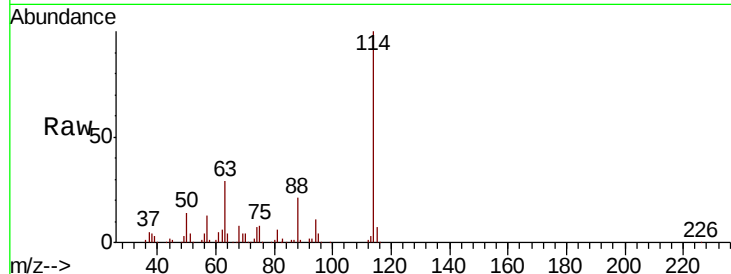




#39
Methvlcvclohexane
Concen: 1.36 ug/l
RT: 5.76 min Scan# 520
Delta R.T. 0.14 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

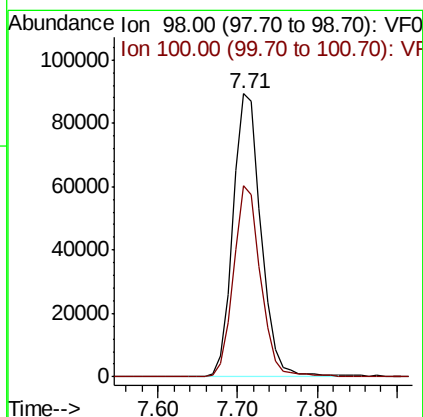
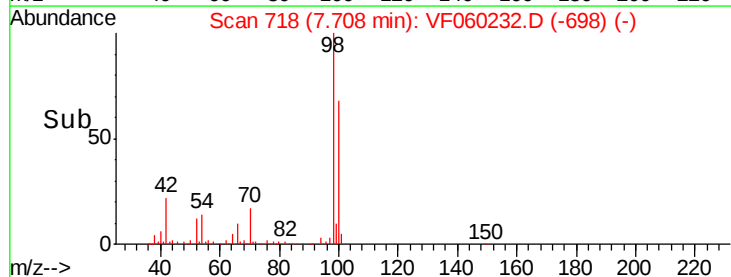
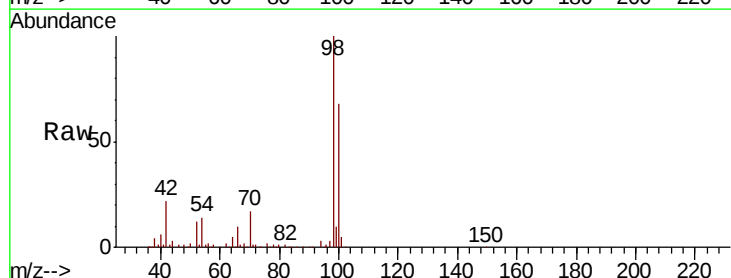
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-G6

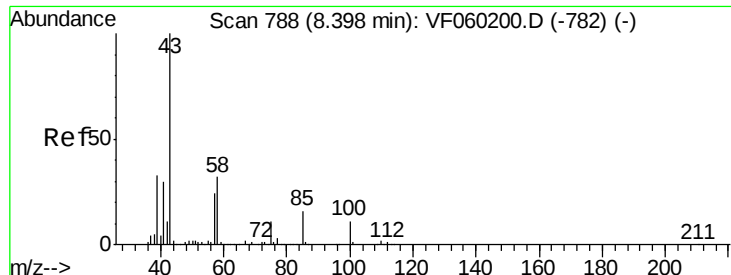
Tot Ion: 83 Resp: 3252
Ion Ratio Lower Upper
83 100
55 38.9 79.0 118.4#
98 0.0 36.7 55.1#



#50
Toluene-d8
Concen: 36.80 ug/l
RT: 7.71 min Scan# 718
Delta R.T. 0.00 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

Tgt Ion: 98 Resp: 218542
Ion Ratio Lower Upper
98 100
100 67.7 47.4 71.0





#51

4-Methyl-2-Pentanone

Concen: 1.58 ug/l

RT: 8.41 min Scan# 789

Delta R.T. 0.01 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

Instrument :

MSVOA_F

ClientSampleID :

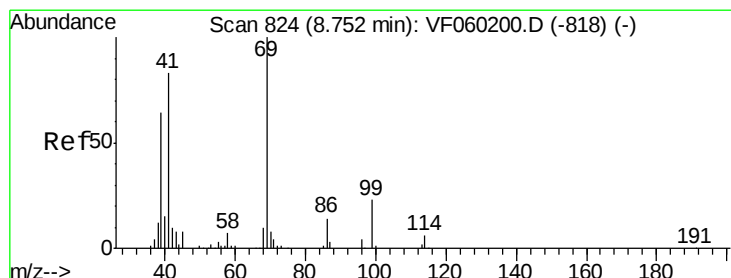
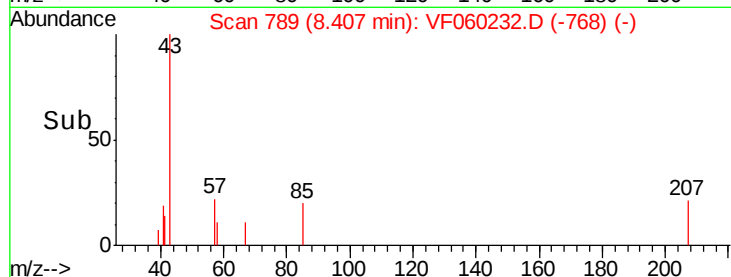
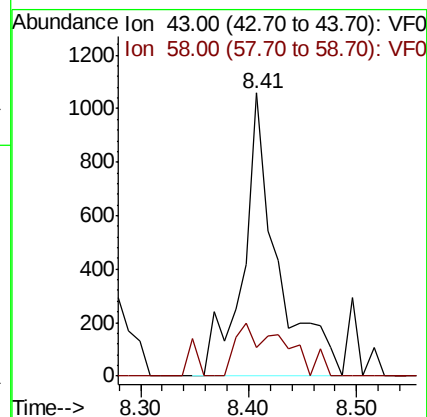
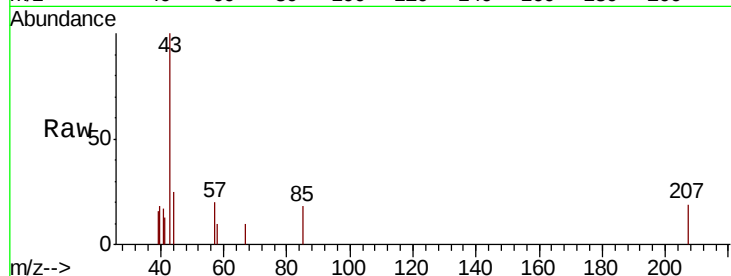
EP1-Q2-G6

Tot Ion: 43 Resp: 2329

Ion Ratio Lower Upper

43 100

58 9.9 25.8 38.6#



#56

Ethyl methacrylate

Concen: 9.47 ug/l

RT: 8.77 min Scan# 826

Delta R.T. 0.02 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

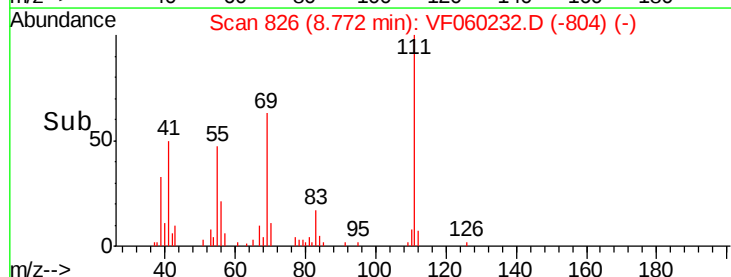
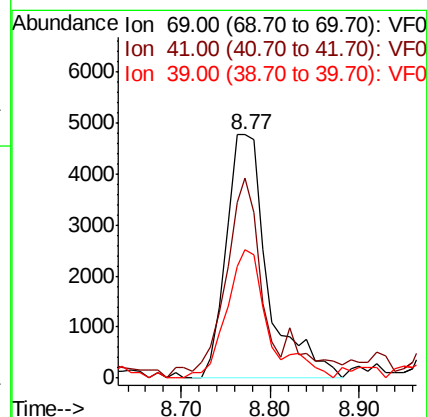
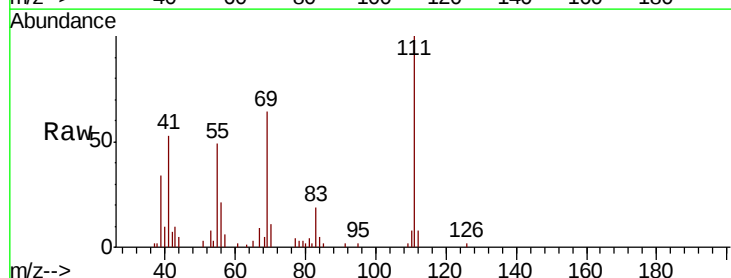
Tgt Ion: 69 Resp: 15703

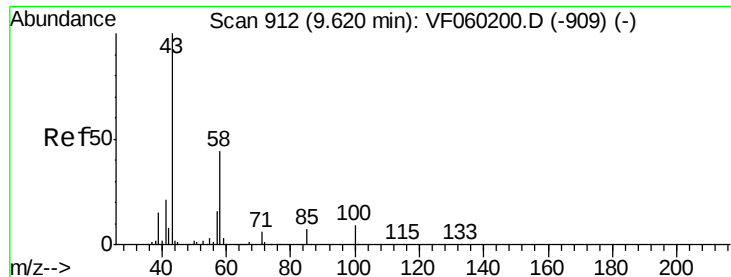
Ion Ratio Lower Upper

69 100

41 82.0 66.6 100.0

39 52.7 51.5 77.3

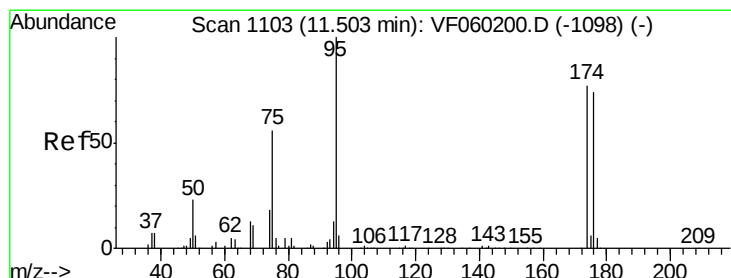
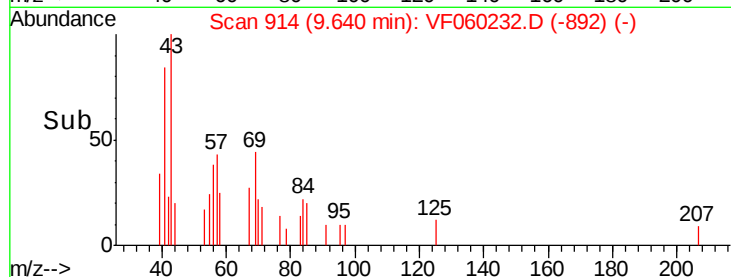
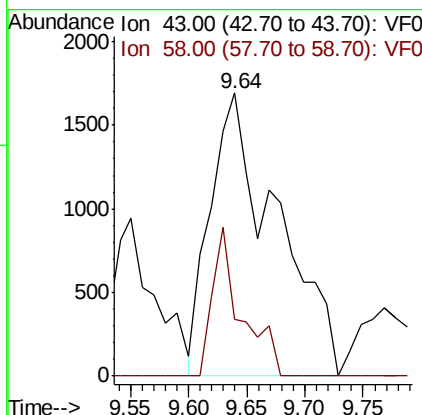
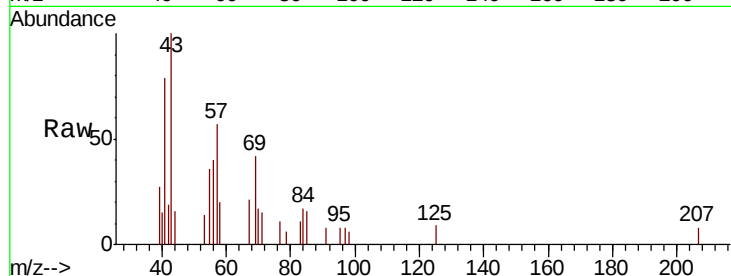




#59
2-Hexanone
Concen: 4.93 ug/l
RT: 9.64 min Scan# 914
Delta R.T. 0.02 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

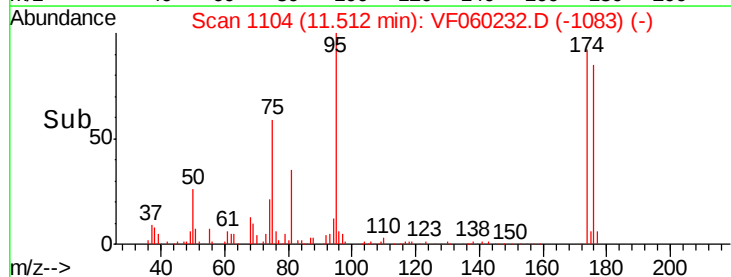
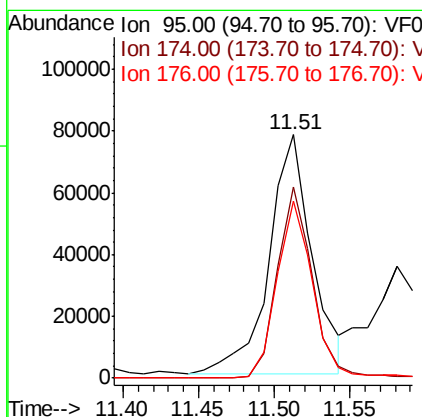
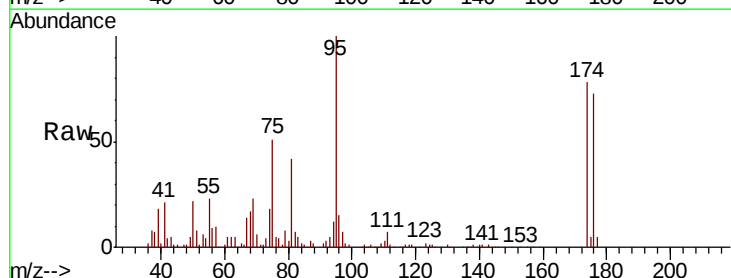
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-G6

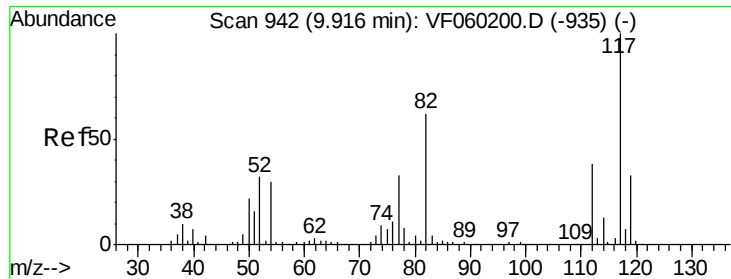
Tot Ion: 43 Resp: 6719
Ion Ratio Lower Upper
43 100
58 20.3 20.8 62.5#



#62
4-Bromofluorobenzene
Concen: 45.94 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

Tgt Ion: 95 Resp: 153934
Ion Ratio Lower Upper
95 100
174 78.4 0.0 153.2
176 72.9 0.0 147.2

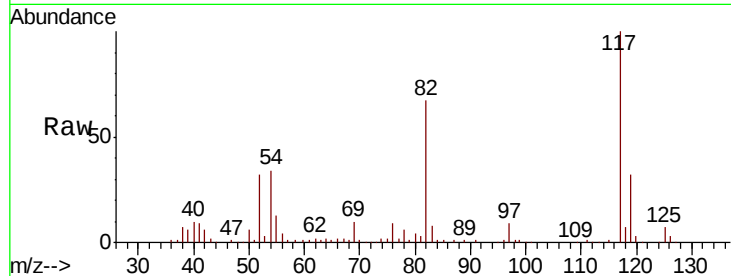




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 942
Delta R.T. 0.00 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-G6

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.4	49.3	73.9
119	31.5	26.5	39.7

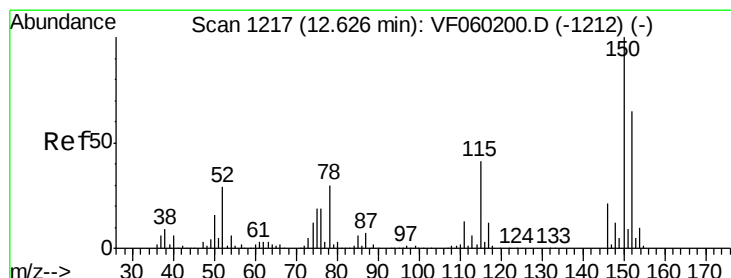
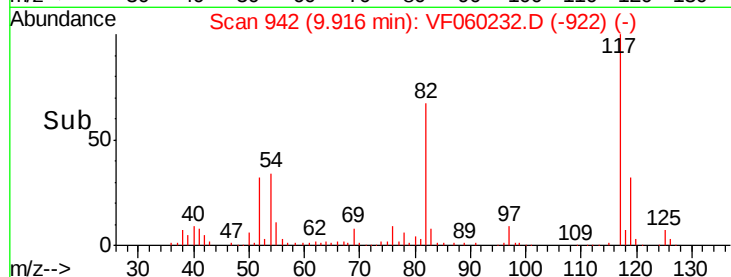
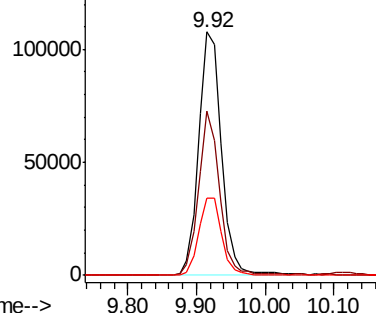


Abundance

Ion 117.00 (116.70 to 117.70): V

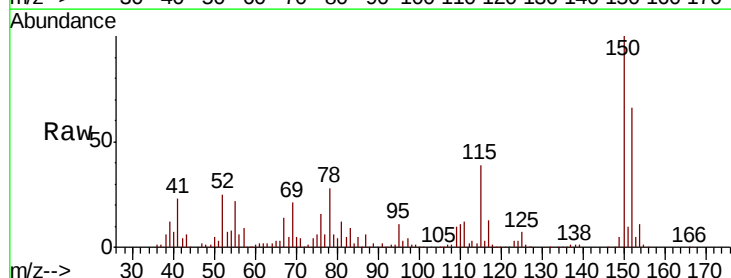
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.64 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VF060232.D
Acq: 10 Sep 2018 14:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.8	31.5	94.5
150	150.9	0.0	310.4

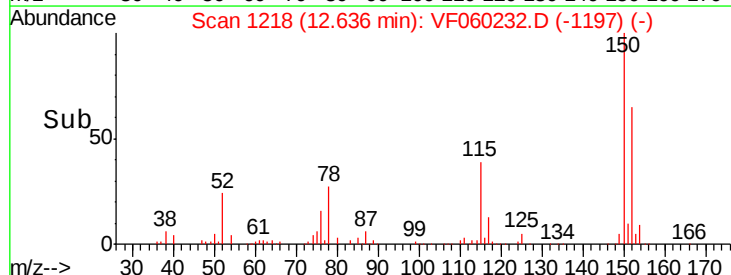
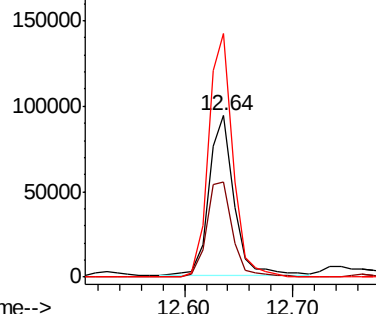


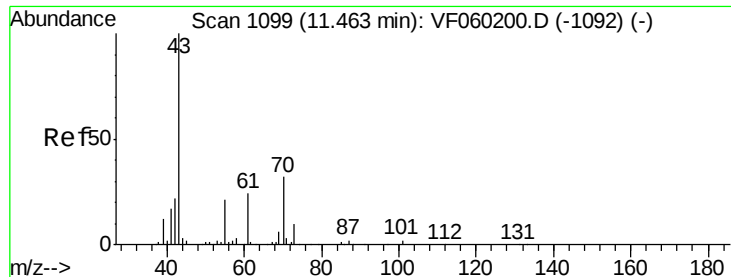
Abundance

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-amvl acetate

Concen: 12.55 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. 0.02 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

Instrument :

MSVOA_F

ClientSampled :

EP1-Q2-G6

Tot Ion: 43 Resp: 18073

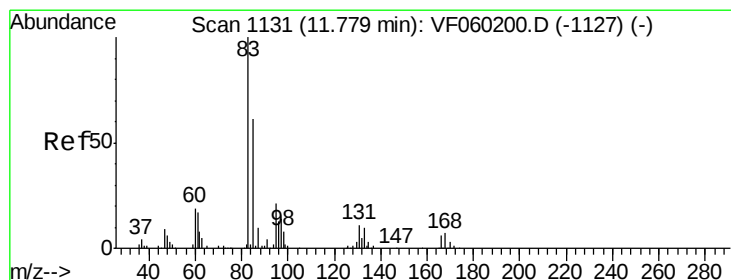
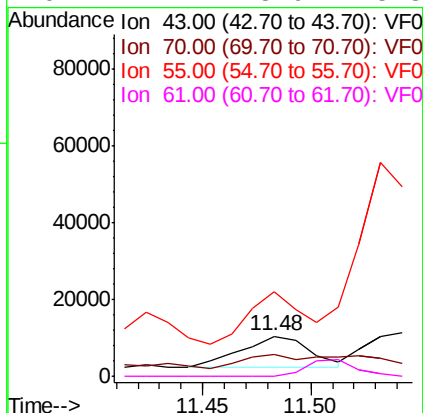
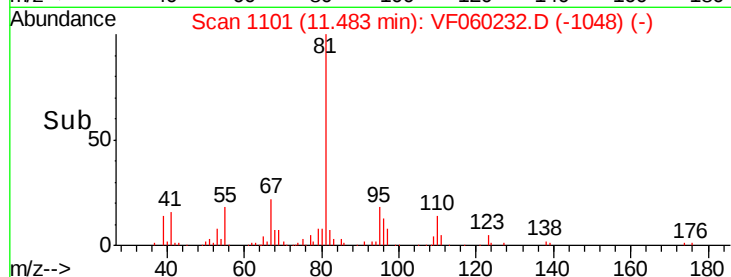
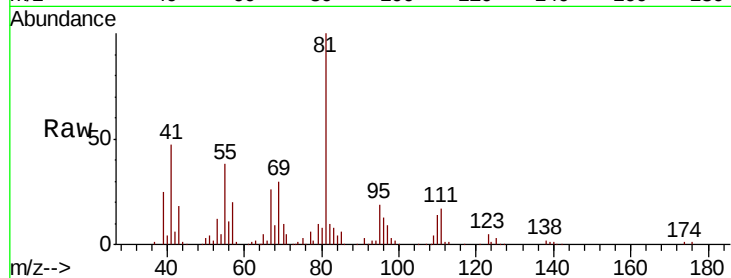
Ion Ratio Lower Upper

43 100

70 54.3 25.8 38.6#

55 211.2 16.8 25.2#

61 1.4 18.9 28.3#



#75

1,1,2,2-Tetrachloroethane

Concen: 47.74 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

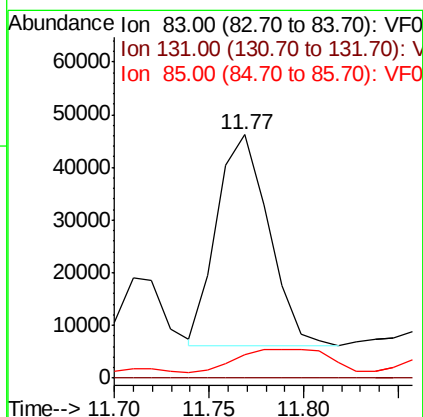
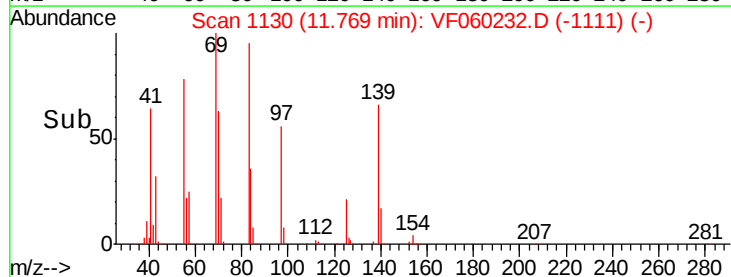
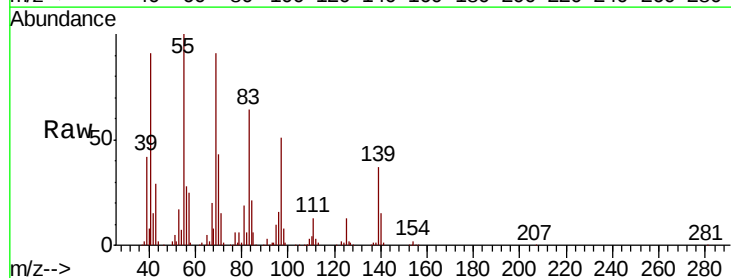
Tgt Ion: 83 Resp: 75994

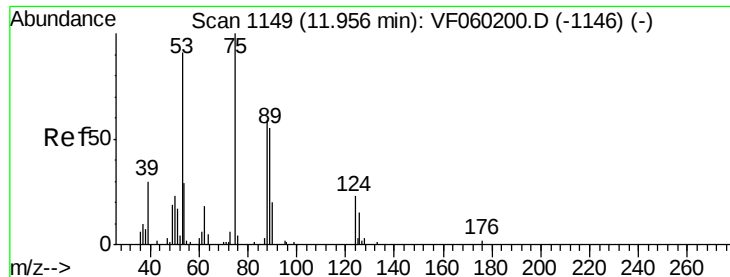
Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 9.7 31.1 93.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 3.69 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF060232.D

Acq: 10 Sep 2018 14:03

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-G6

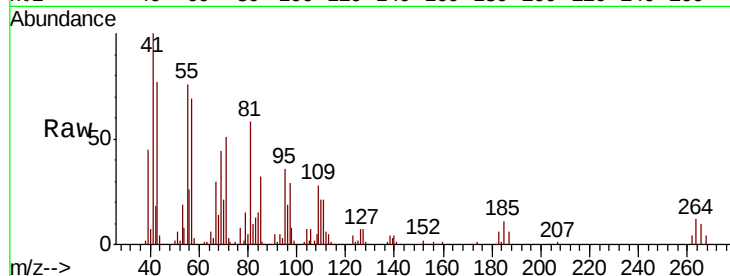
Tot Ion: 75 Resp: 477

Ion Ratio Lower Upper

75 100

53 2363.0 76.5 114.7#

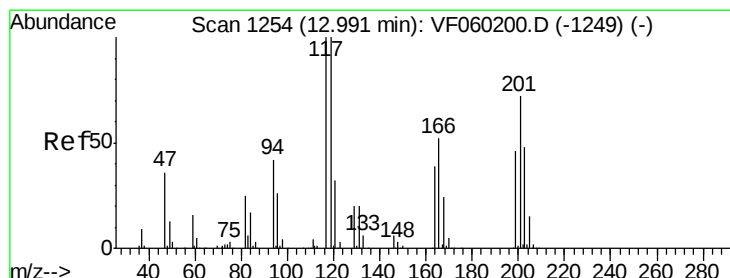
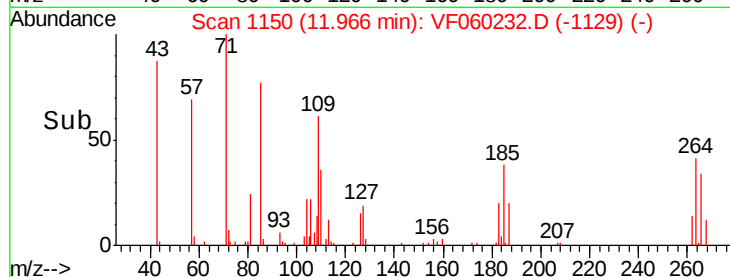
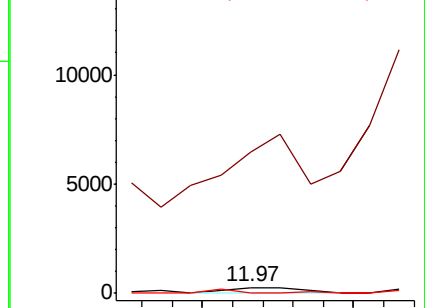
89 0.0 46.5 69.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#90

Hexachloroethane

Concen: 1.10 ug/l

RT: 13.00 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF060232.D

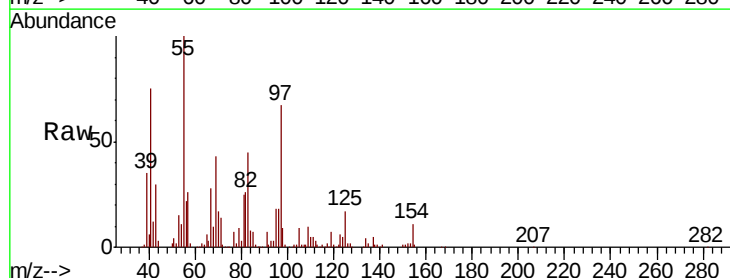
Acq: 10 Sep 2018 14:03

Tgt Ion: 117 Resp: 2325

Ion Ratio Lower Upper

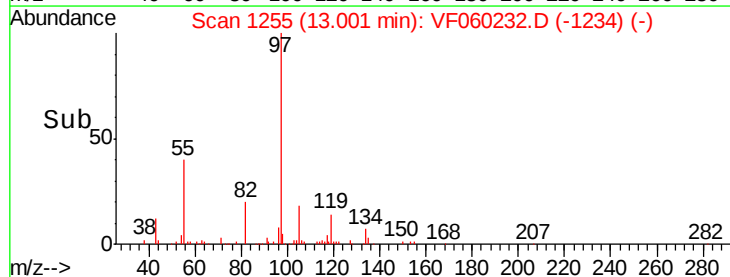
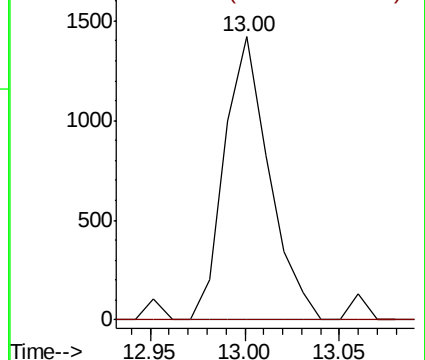
117 100

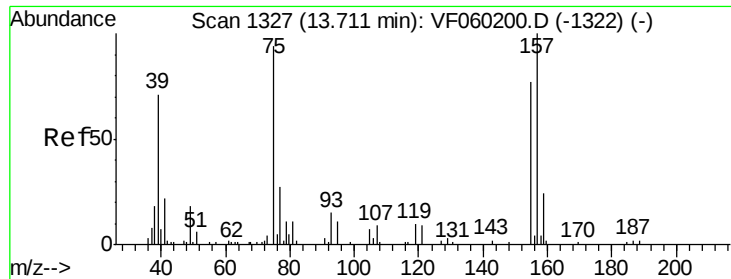
201 0.0 35.7 107.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

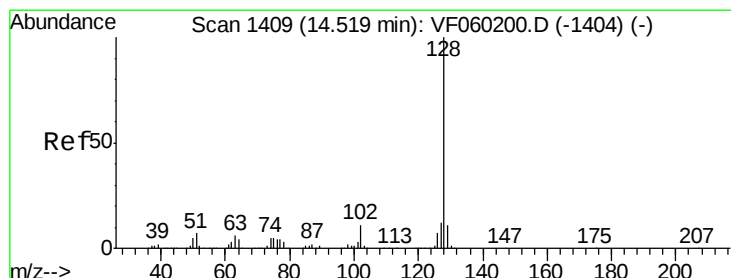
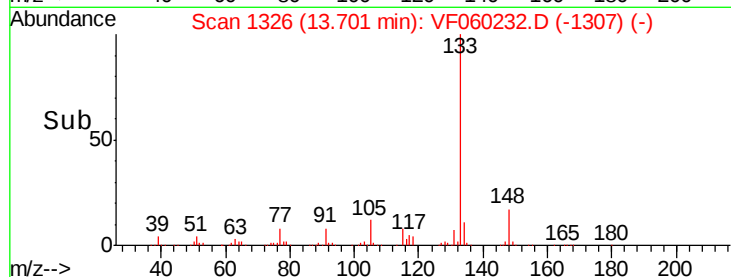
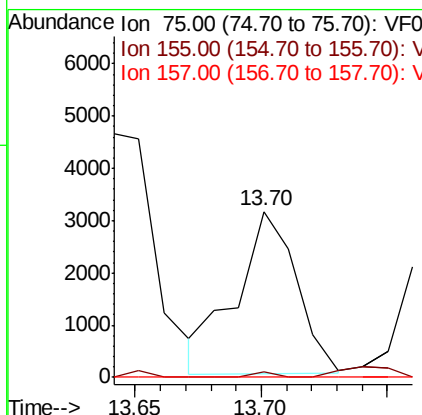
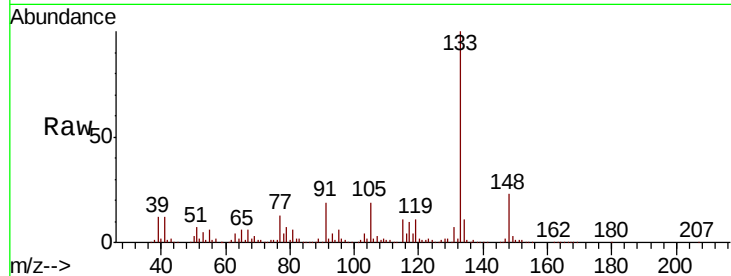




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 12.77 ug/l
 RT: 13.70 min Scan# 1326
 Delta R.T. -0.01 min
 Lab File: VF060232.D
 Acq: 10 Sep 2018 14:03

Instrument :
 MSVOA_F
 ClientSampled :
 EP1-Q2-G6

Tot Ion: 75 Resp: 5189
 Ion Ratio Lower Upper
 75 100
 155 3.7 40.8 122.5#
 157 0.0 53.3 159.9#



#95
 Naphthalene
 Concen: 3.45 ug/l
 RT: 14.52 min Scan# 1409
 Delta R.T. 0.00 min
 Lab File: VF060232.D
 Acq: 10 Sep 2018 14:03

Tgt Ion: 128 Resp: 5122
 Ion Ratio Lower Upper
 128 100
 127 25.9 9.9 14.9#
 129 49.9 8.9 13.3#

