

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060238.D
 Acq On : 10 Sep 2018 16:47
 Operator : VA/AP
 Sample : J4803-14
 Misc : 5.29/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-I6

Quant Time: Sep 11 07:16:57 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	189950	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	263266	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	265876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	154471	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	118398	35.68	ug/l	0.00
Spiked Amount			Recovery	=	71.36%	
35) Dibromofluoromethane	4.29	113	103250	40.03	ug/l	0.00
Spiked Amount			Recovery	=	80.06%	
50) Toluene-d8	7.71	98	244431	37.98	ug/l	0.00
Spiked Amount			Recovery	=	75.96%	
62) 4-Bromofluorobenzene	11.52	95	129164	35.57	ug/l	0.01
Spiked Amount			Recovery	=	71.14%	

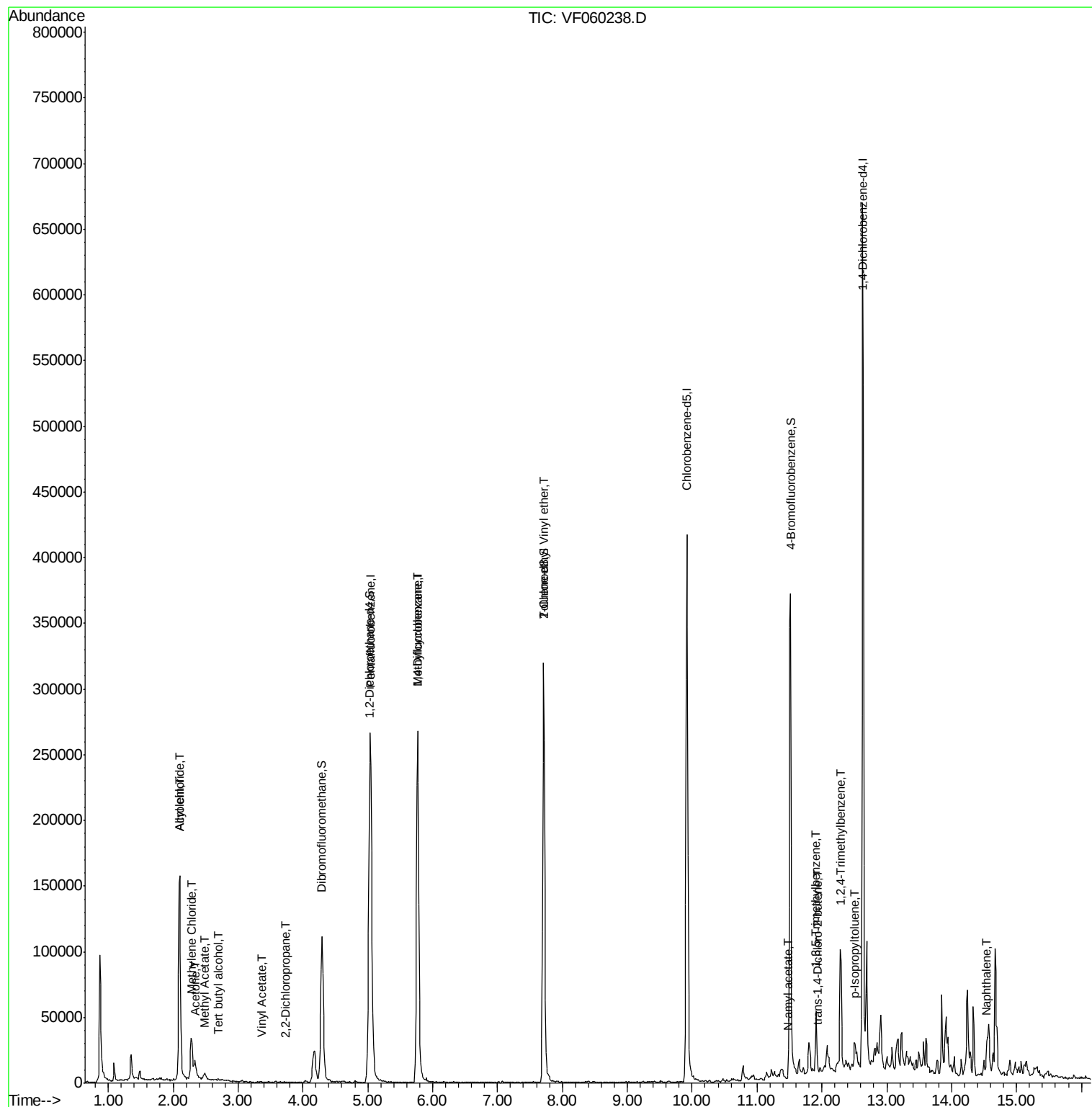
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.68	59	271	13.83	ug/l #	75
13) Acrolein	2.09	56	2174	14.47	ug/l #	1
14) Allyl chloride	2.09	41	55430	27.07	ug/l #	60
16) Acetone	2.34	43	16513	28.49	ug/l #	83
18) Methyl Acetate	2.49	43	2496	2.23	ug/l #	64
20) Methylene Chloride	2.28	84	16445	1.51	ug/l	95
23) Vinyl Acetate	3.37	43	193	22.88	ug/l #	82
26) 2,2-Dichloropropane	3.74	77	64	2.05	ug/l #	64
37) Ethyl Acetate	4.30	43	494	Below Cal	#	17
39) Methylcyclohexane	5.77	83	3398	1.31	ug/l #	27
58) 2-Chloroethyl Vinyl ether	7.70	63	338	1.75	ug/l	100
59) 2-Hexanone	9.63	43	838	Below Cal		73
74) N-amyl acetate	11.47	43	254	4.90	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.91	105	24916	2.65	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.95	75	115	2.82	ug/l #	9
84) 1,2,4-Trimethylbenzene	12.28	105	44726	4.68	ug/l	99
86) p-Isopropyltoluene	12.51	119	12583	1.20	ug/l	96
95) Naphthalene	14.52	128	3620	3.20	ug/l #	95

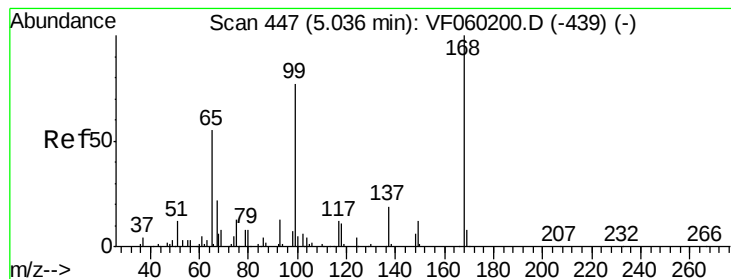
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 07 10:44:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

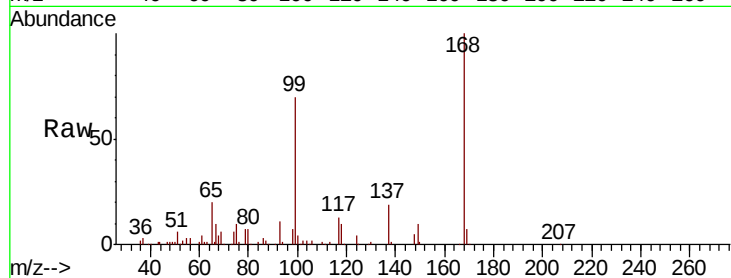
EP1-Q2-I6

Tot Ion:168 Resp: 189950

Ion Ratio Lower Upper

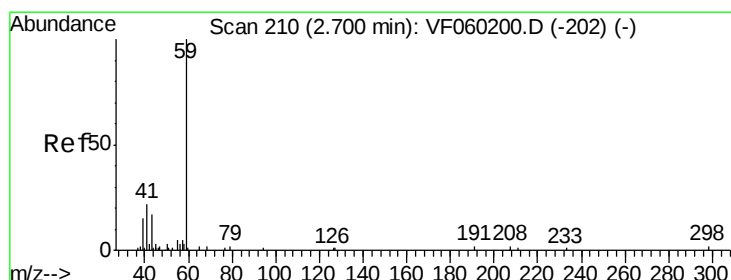
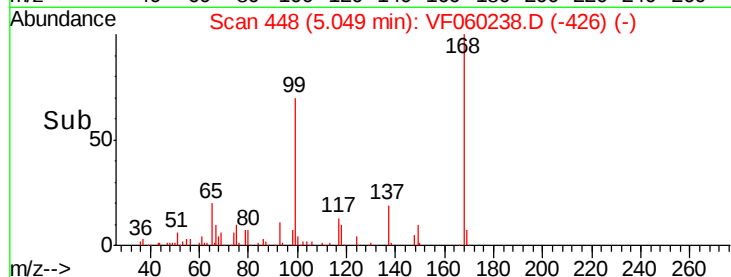
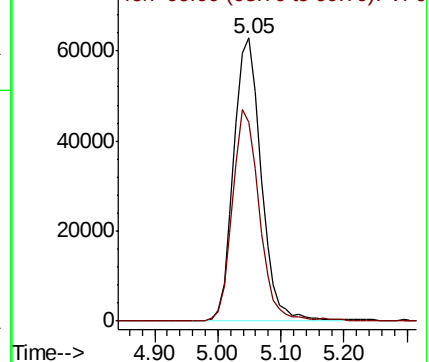
168 100

99 70.2 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 13.83 ug/l

RT: 2.68 min Scan# 208

Delta R.T. -0.02 min

Lab File: VF060238.D

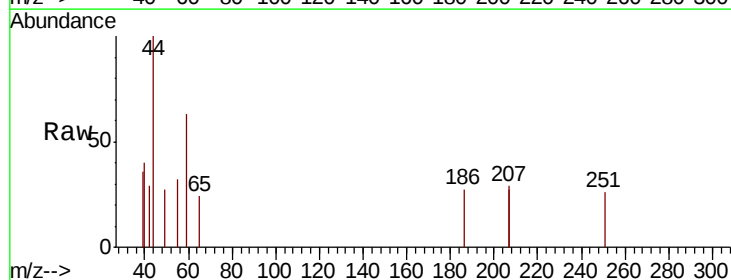
Acq: 10 Sep 2018 16:47

Tgt Ion: 59 Resp: 271

Ion Ratio Lower Upper

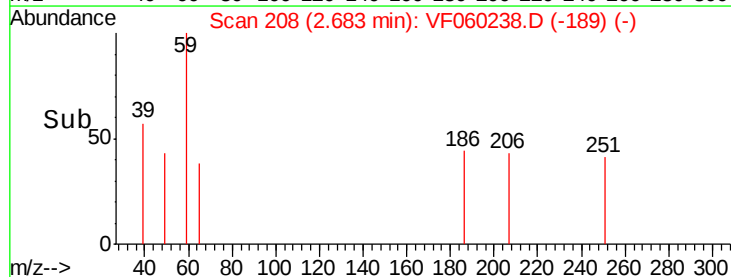
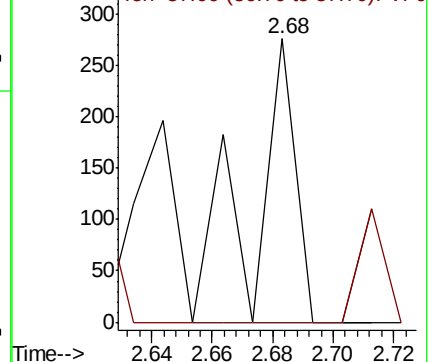
59 100

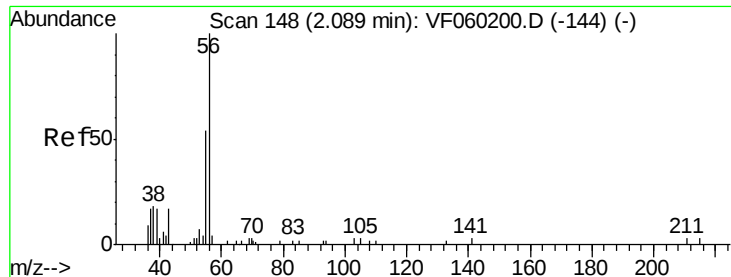
57 0.0 7.2 10.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 14.47 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.00 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

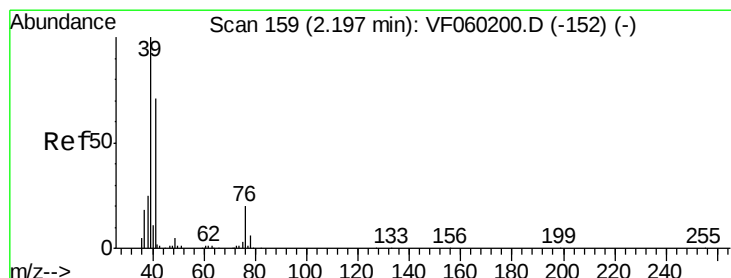
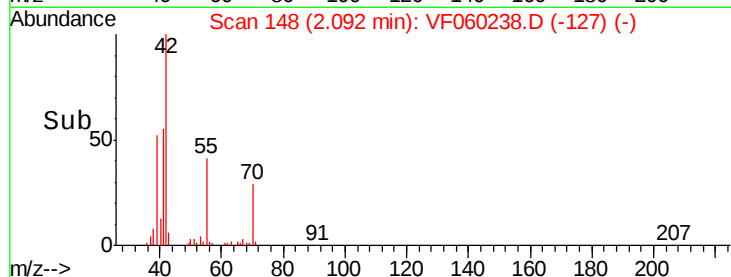
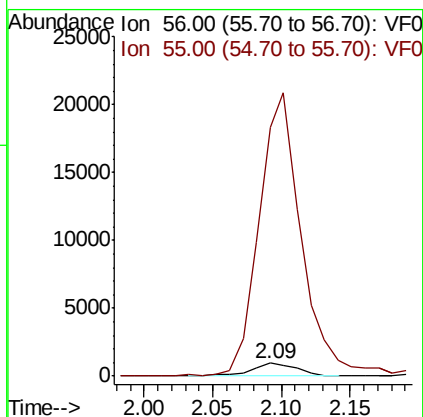
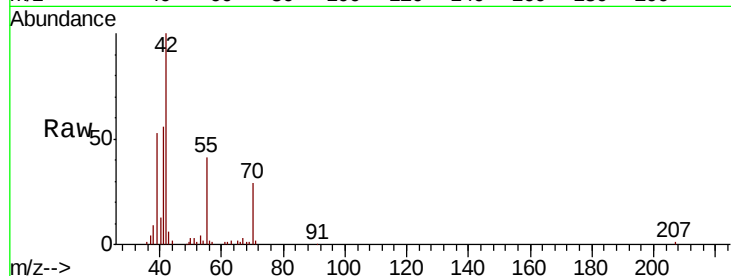
EP1-Q2-I6

Tot Ion: 56 Resp: 2174

Ion Ratio Lower Upper

56 100

55 1934.0 45.1 67.7#



#14

Allyl chloride

Concen: 27.07 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.11 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

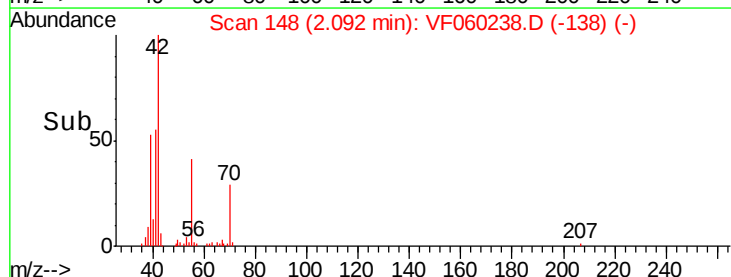
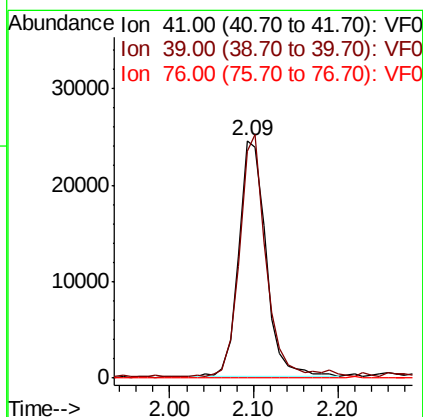
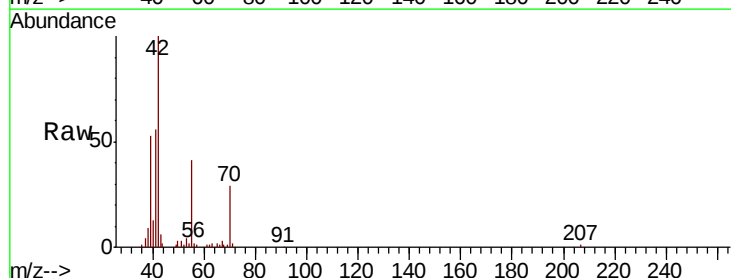
Tgt Ion: 41 Resp: 55430

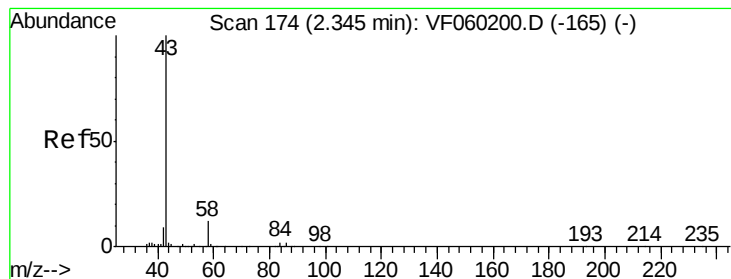
Ion Ratio Lower Upper

41 100

39 95.3 112.2 168.2#

76 0.0 23.2 34.8#





#16

Acetone

Concen: 28.49 ug/l

RT: 2.34 min Scan# 173

Delta R.T. -0.01 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

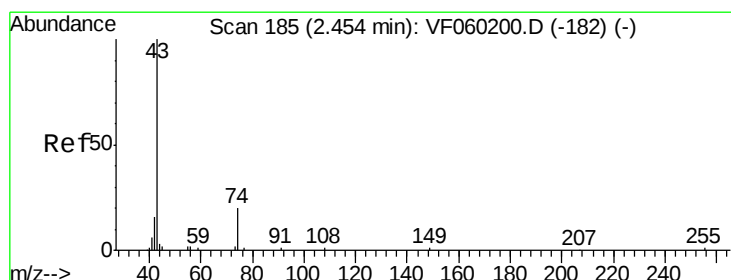
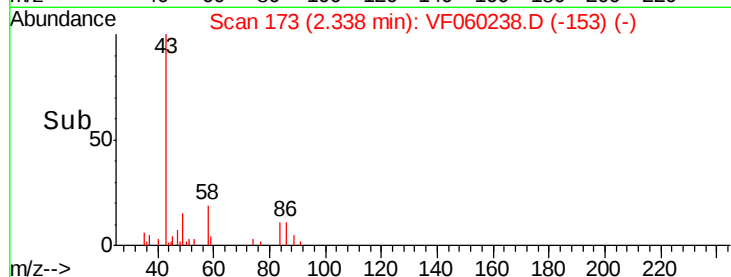
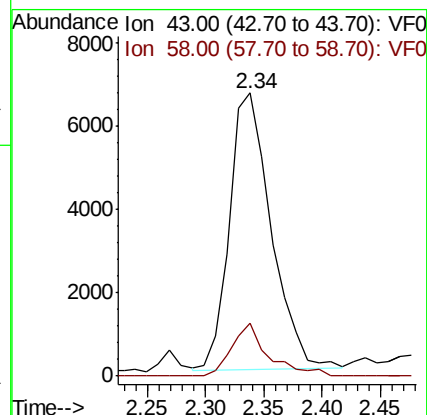
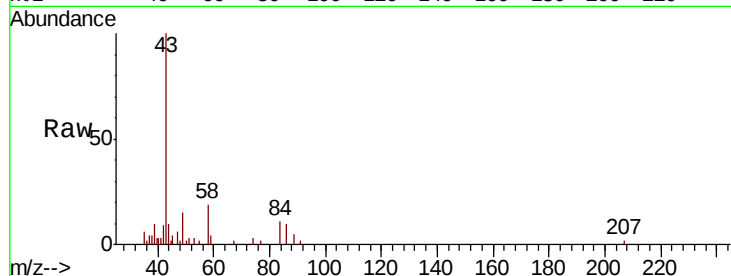
EP1-Q2-I6

Tot Ion: 43 Resp: 16513

Ion Ratio Lower Upper

43 100

58 18.7 9.7 14.5#



#18

Methyl Acetate

Concen: 2.23 ug/l

RT: 2.49 min Scan# 188

Delta R.T. 0.03 min

Lab File: VF060238.D

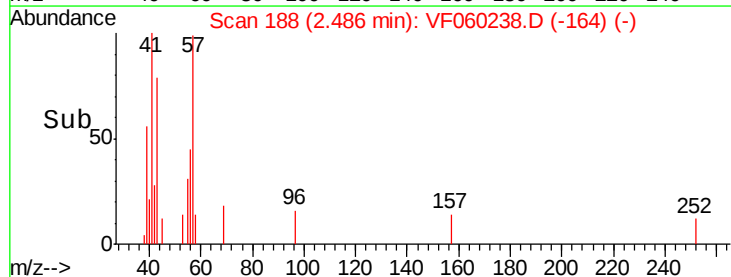
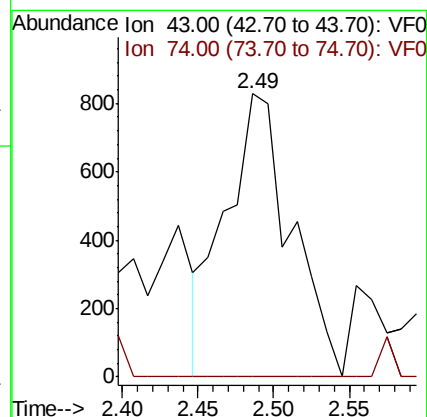
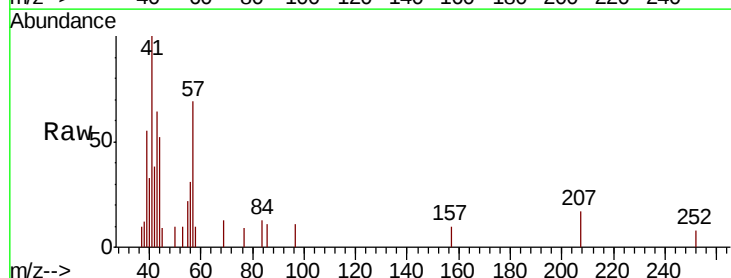
Acq: 10 Sep 2018 16:47

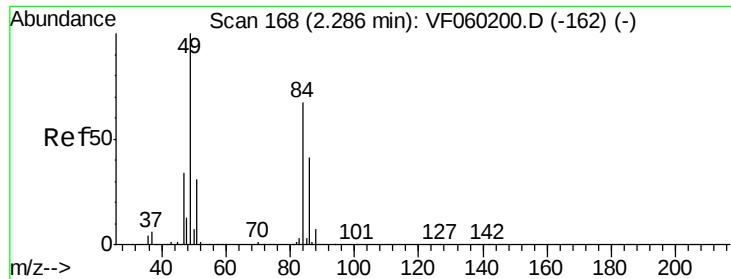
Tgt Ion: 43 Resp: 2496

Ion Ratio Lower Upper

43 100

74 0.0 11.9 17.9#

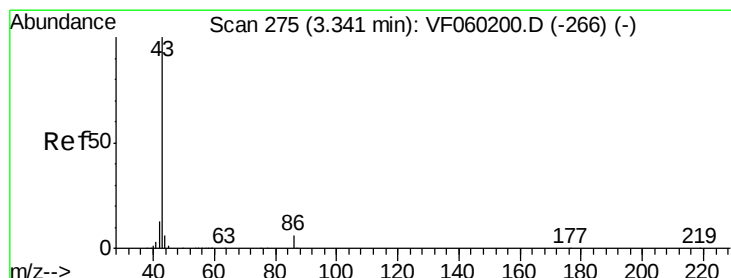
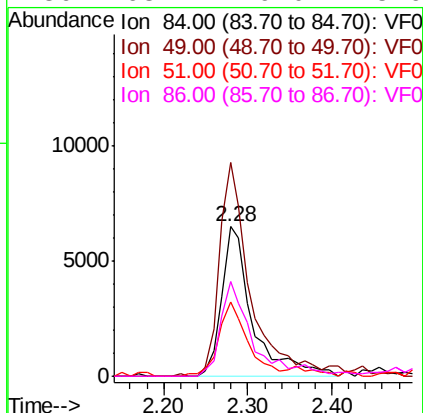
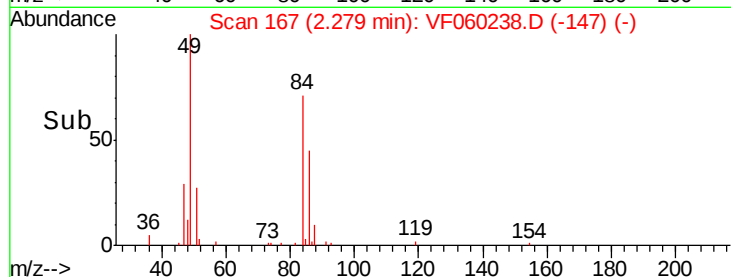
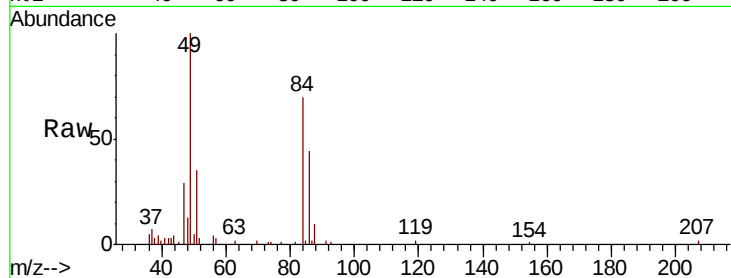




#20
Methvlene Chloride
Concen: 1.51 ug/l
RT: 2.28 min Scan# 167
Delta R.T. -0.01 min
Lab File: VF060238.D
Acq: 10 Sep 2018 16:47

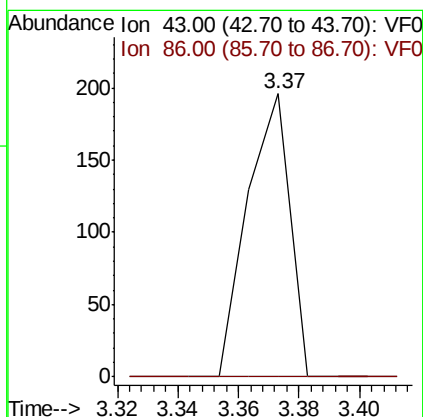
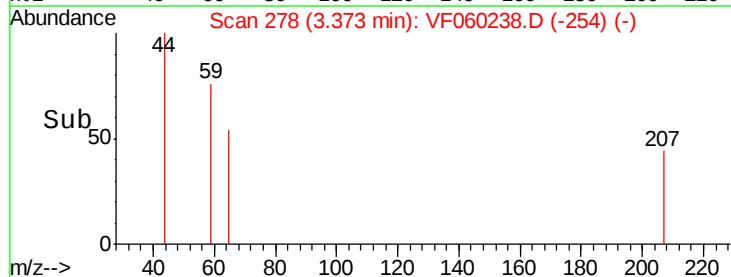
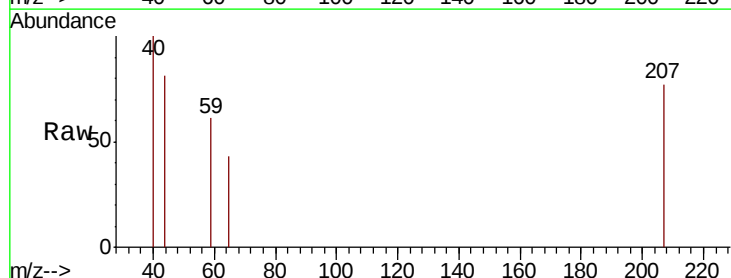
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-I6

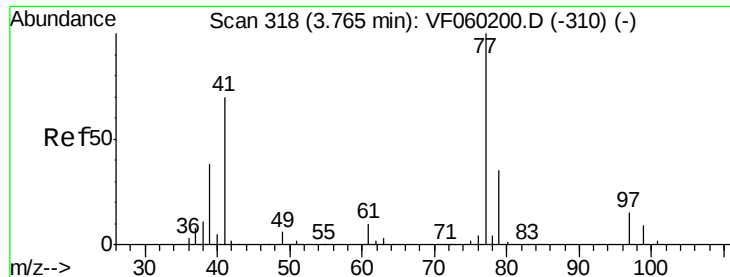
Tot Ion:	84	Resp:	16445
Ion	Ratio	Lower	Upper
84	100		
49	142.7	120.1	180.1
51	49.7	37.0	55.6
86	63.2	49.0	73.6



#23
Vinyl Acetate
Concen: 22.88 ug/l
RT: 3.37 min Scan# 278
Delta R.T. 0.03 min
Lab File: VF060238.D
Acq: 10 Sep 2018 16:47

Tgt Ion:	43	Resp:	193
Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.8	7.2#





#26

2,2-Dichloropropane

Concen: 2.05 ug/l

RT: 3.74 min Scan# 315

Delta R.T. -0.03 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

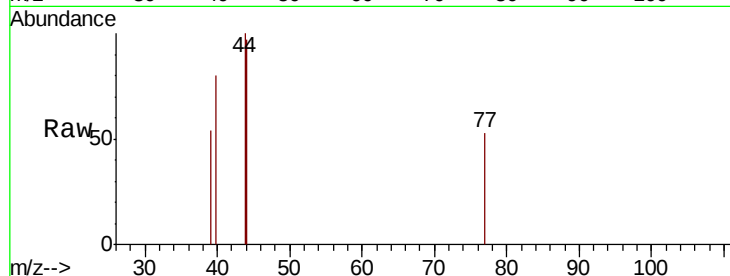
EP1-Q2-I6

Tot Ion: 77 Resp: 64

Ion Ratio Lower Upper

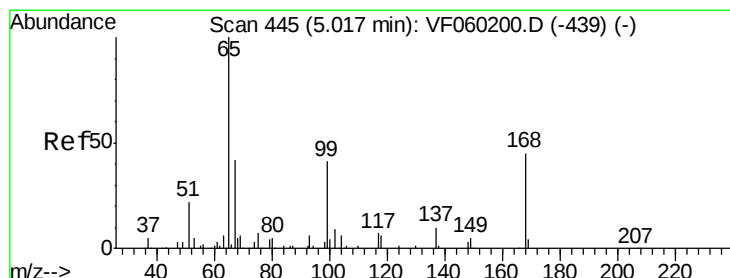
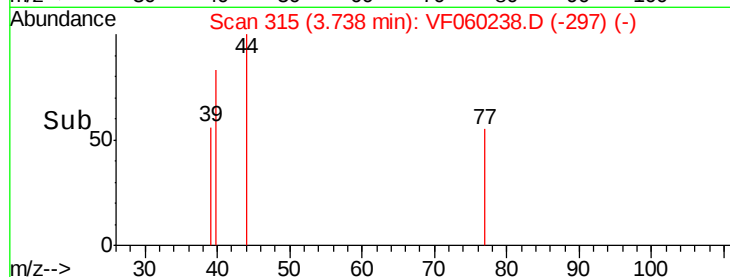
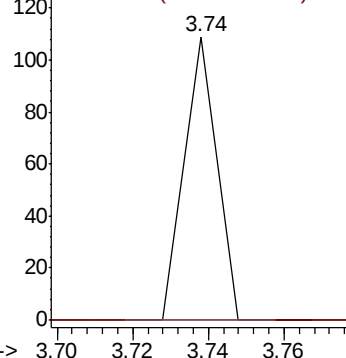
77 100

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



#33

1,2-Dichloroethane-d4

Concen: 35.68 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.00 min

Lab File: VF060238.D

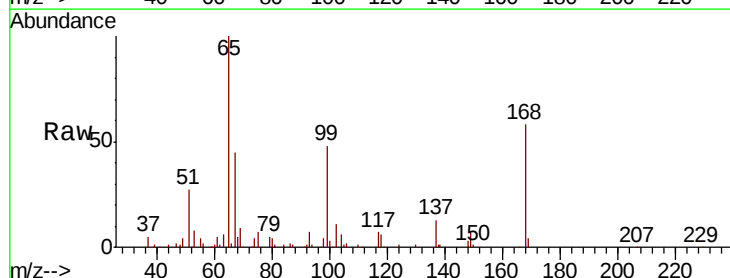
Acq: 10 Sep 2018 16:47

Tgt Ion: 65 Resp: 118398

Ion Ratio Lower Upper

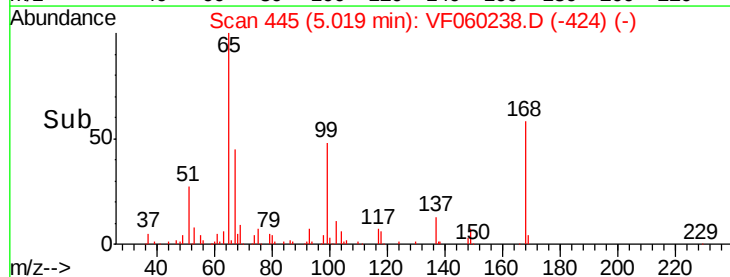
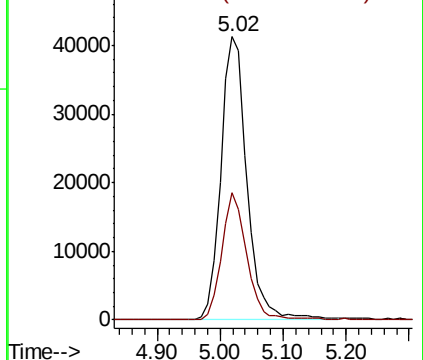
65 100

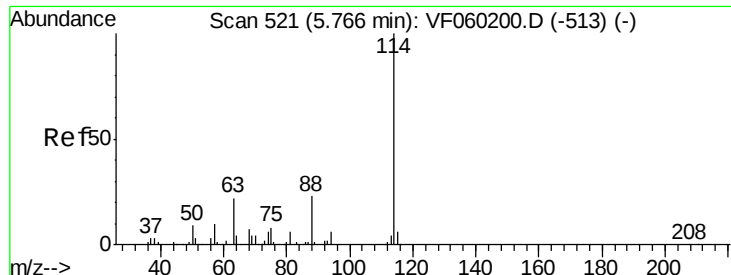
67 44.8 0.0 87.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 521

Delta R.T. 0.00 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampled :

EP1-Q2-I6

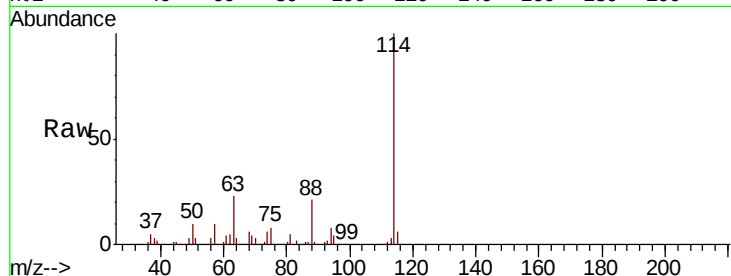
Tot Ion:114 Resp: 263266

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.6

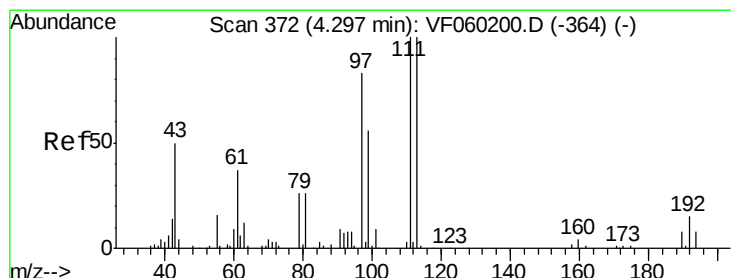
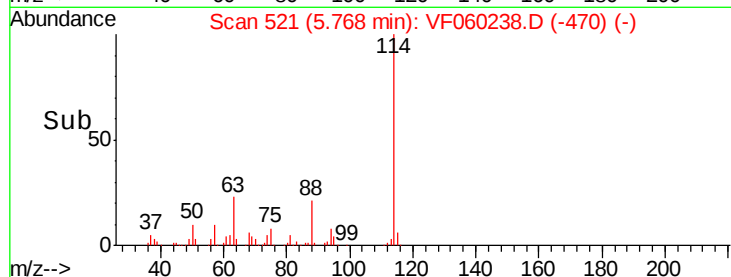
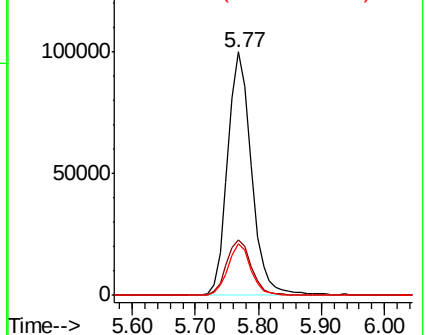
88 21.3 0.0 46.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 40.03 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

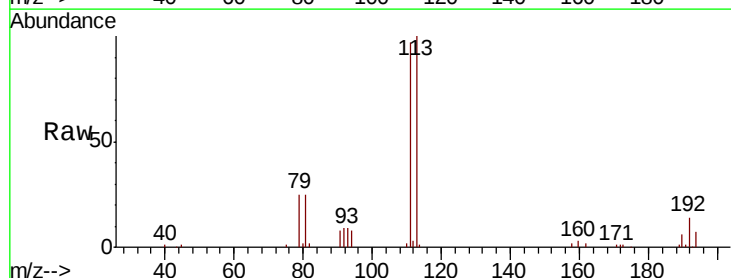
Tgt Ion:113 Resp: 103250

Ion Ratio Lower Upper

113 100

111 97.1 80.2 120.2

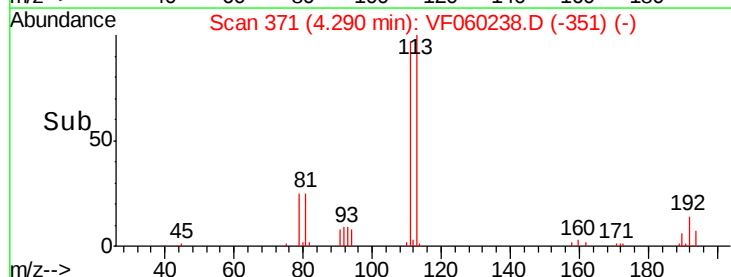
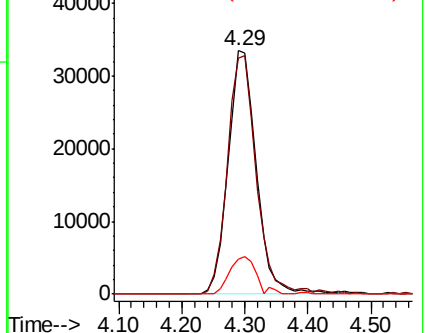
192 14.3 11.8 17.8

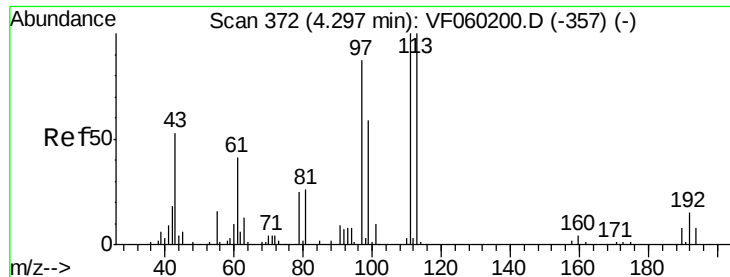


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

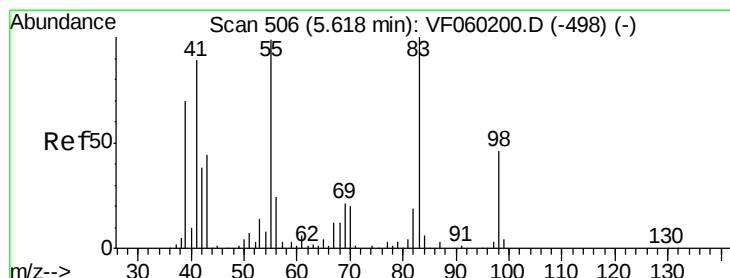
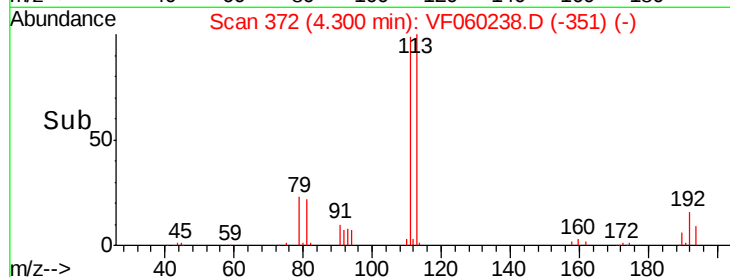
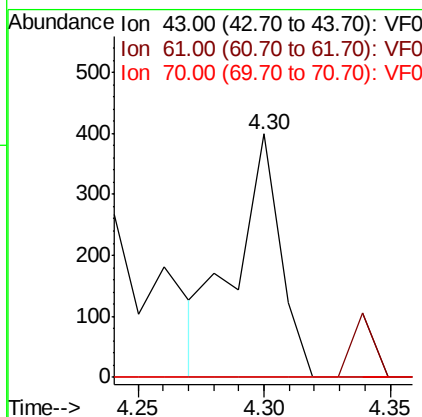
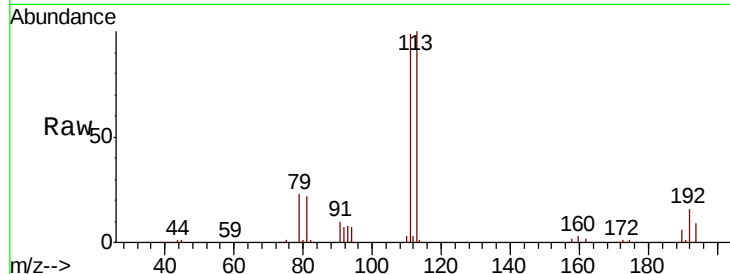




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 372
Delta R.T. 0.00 min
Lab File: VF060238.D
Acq: 10 Sep 2018 16:47

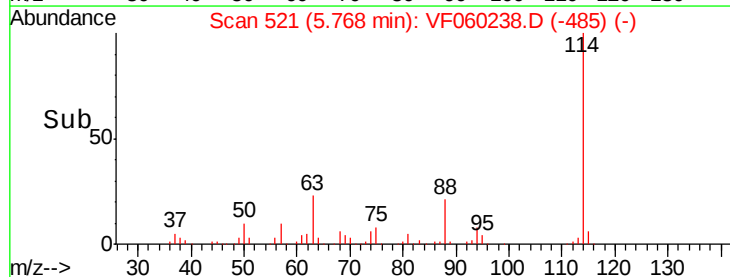
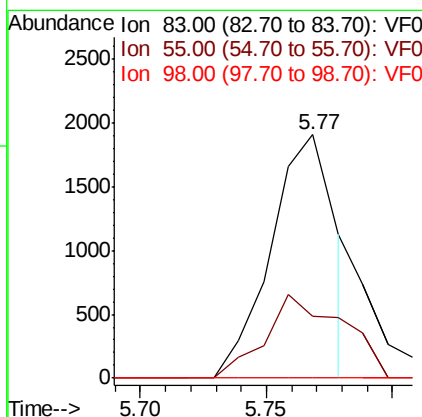
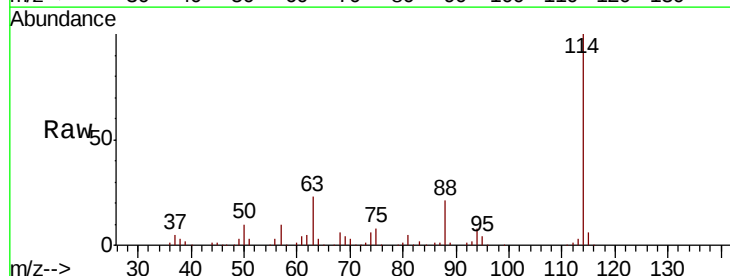
Instrument :
MSVOA_F
ClientSampled :
EP1-Q2-I6

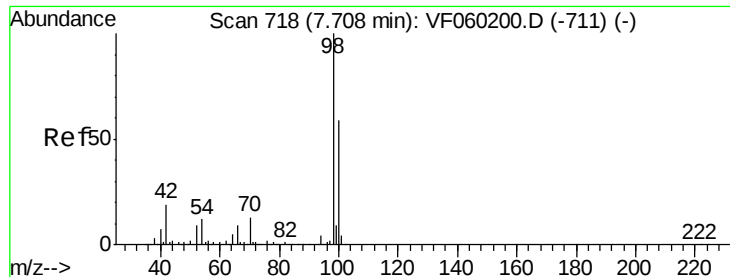
Tot Ion: 43 Resp: 494
Ion Ratio Lower Upper
43 100
61 0.0 61.6 92.4#
70 0.0 6.9 10.3#



#39
Methylcyclohexane
Concen: 1.31 ug/l
RT: 5.77 min Scan# 521
Delta R.T. 0.15 min
Lab File: VF060238.D
Acq: 10 Sep 2018 16:47

Tgt Ion: 83 Resp: 3398
Ion Ratio Lower Upper
83 100
55 25.2 79.0 118.4#
98 0.0 36.7 55.1#





#50

Toluene-d8

Concen: 37.98 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

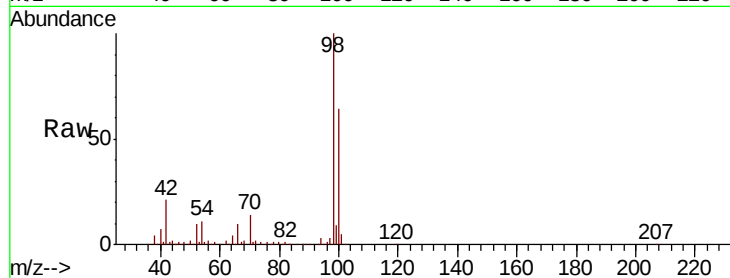
EP1-Q2-I6

Tot Ion: 98 Resp: 244431

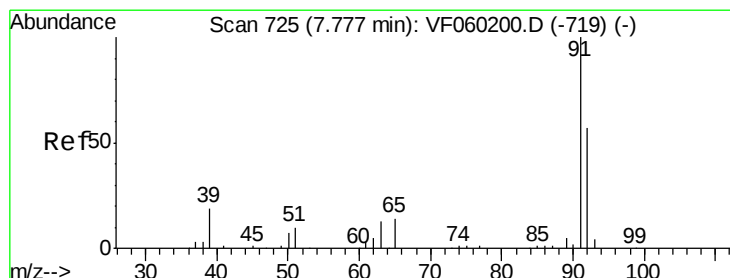
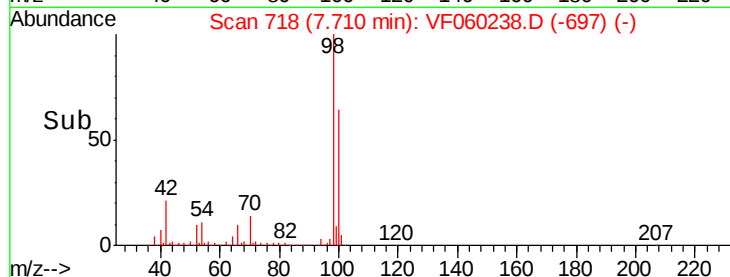
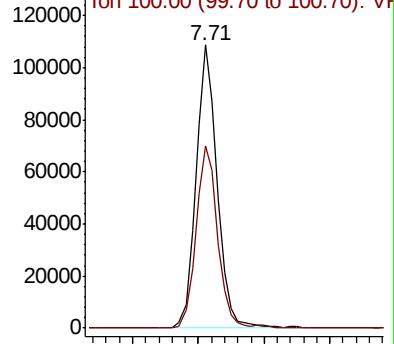
Ion Ratio Lower Upper

98 100

100 64.2 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1.75 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.08 min

Lab File: VF060238.D

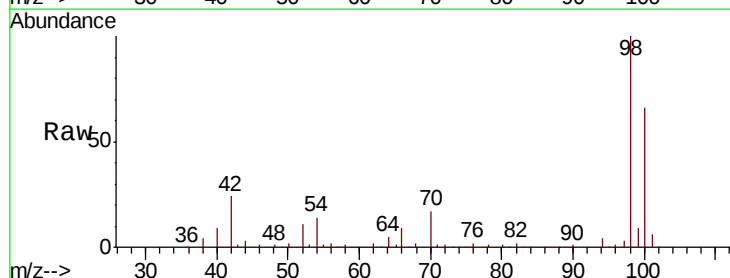
Acq: 10 Sep 2018 16:47

Tgt Ion: 63 Resp: 338

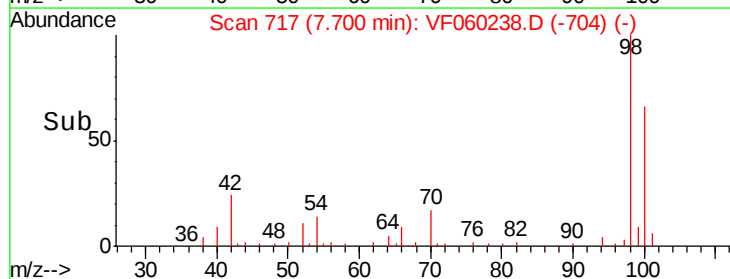
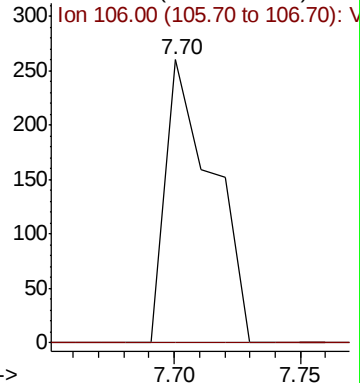
Ion Ratio Lower Upper

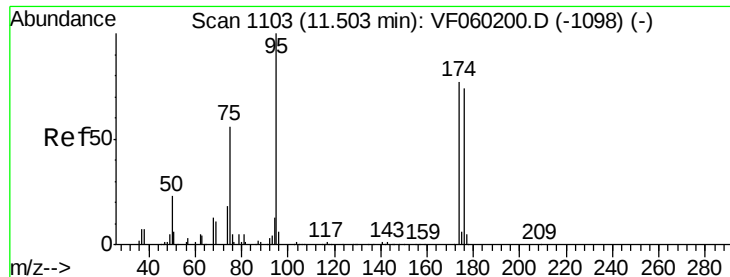
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0





#62

4-Bromofluorobenzene

Concen: 35.57 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. 0.01 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-I6

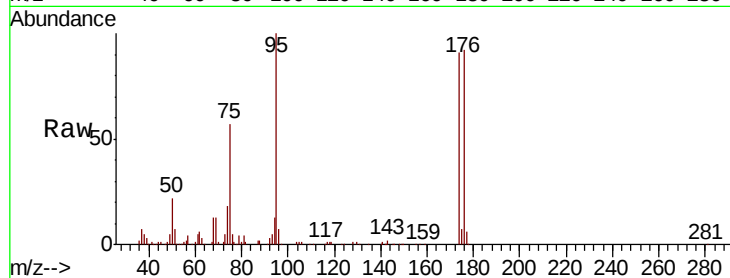
Tot Ion: 95 Resp: 129164

Ion Ratio Lower Upper

95 100

174 91.3 0.0 153.2

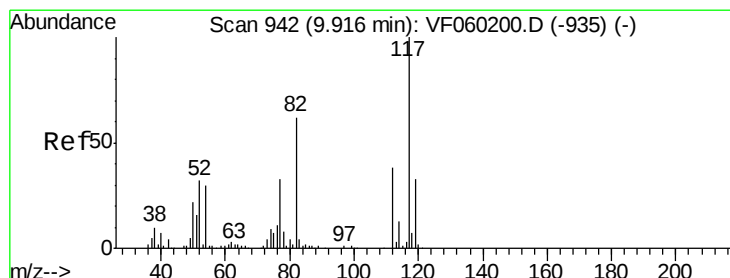
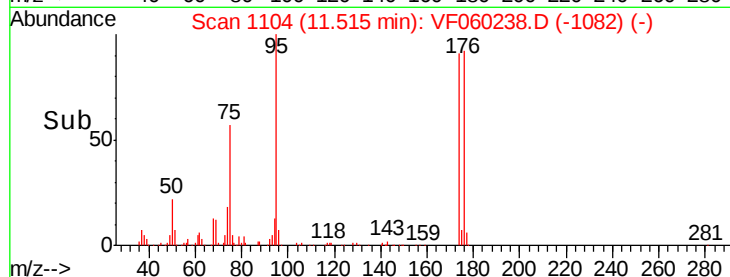
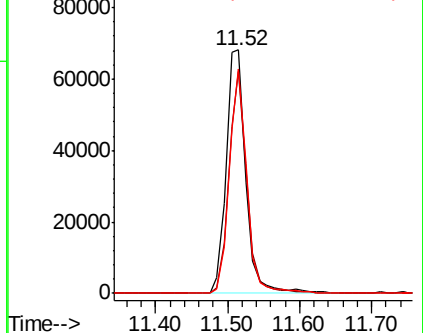
176 92.3 0.0 147.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

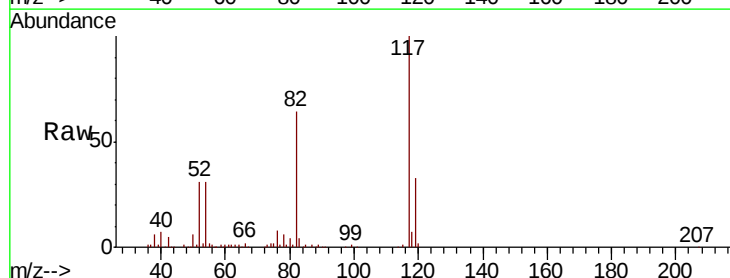
Tgt Ion: 117 Resp: 265876

Ion Ratio Lower Upper

117 100

82 64.1 49.3 73.9

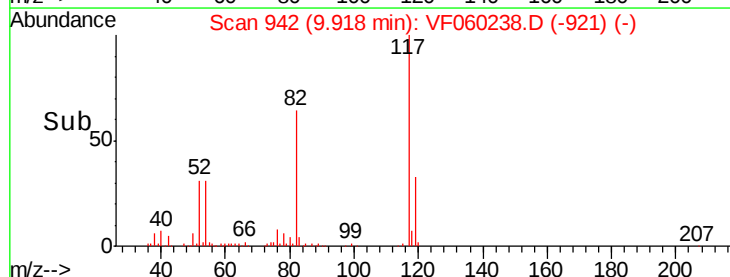
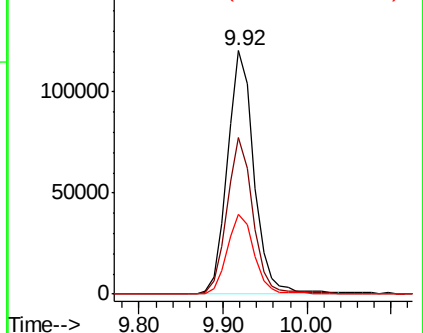
119 32.8 26.5 39.7

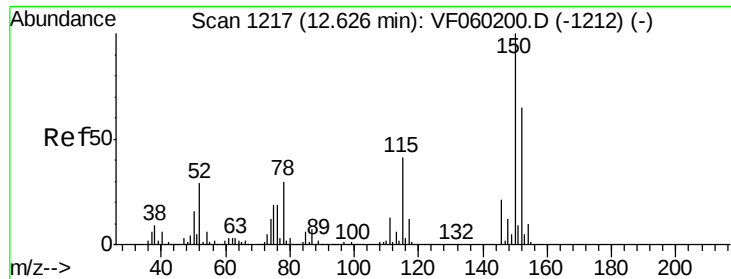


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



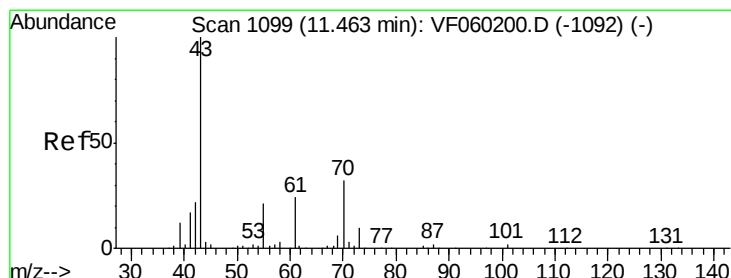
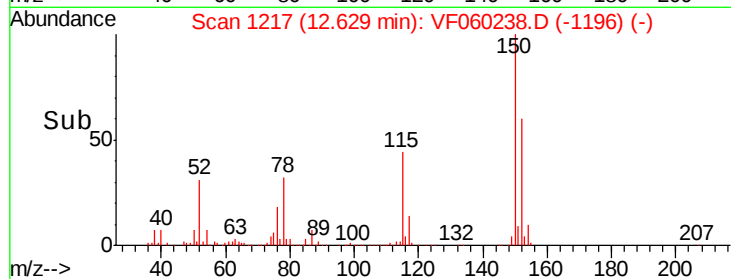
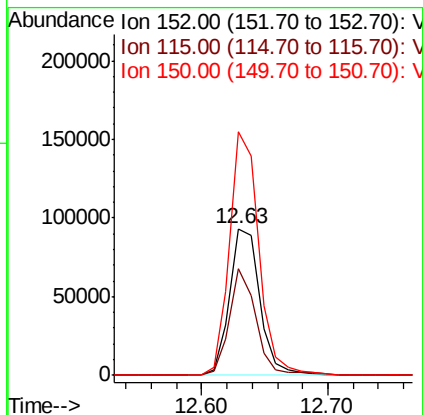
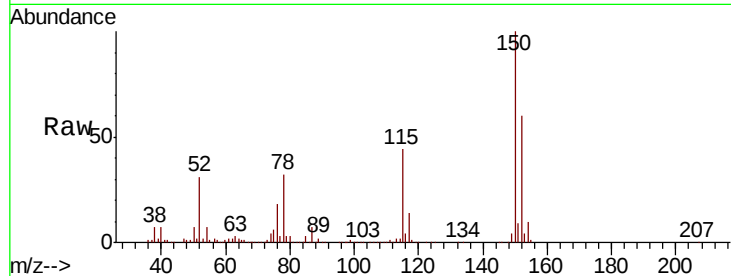


#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VF060238.D
Acq: 10 Sep 2018 16:47

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-I6

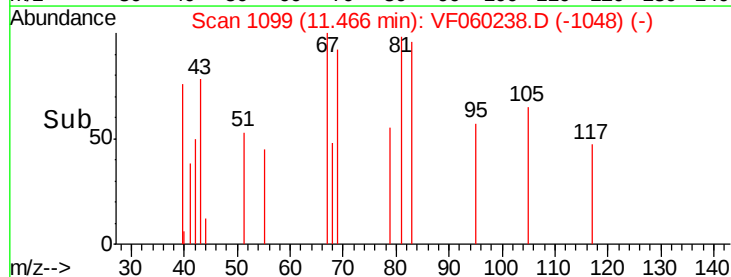
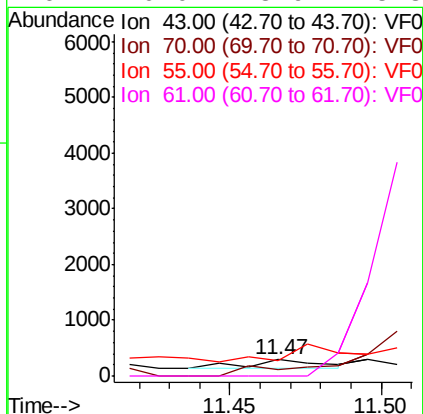
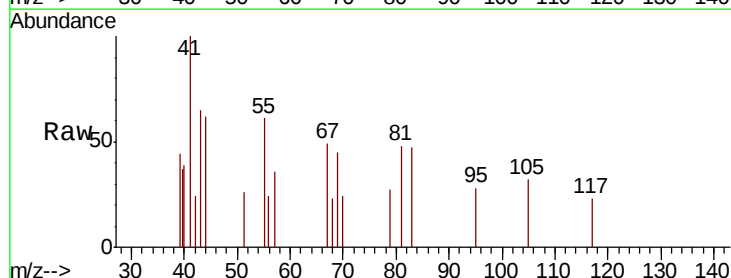
Tot Ion:152 Resp: 154471
Ion Ratio Lower Upper
152 100
115 72.4 31.5 94.5
150 166.2 0.0 310.4

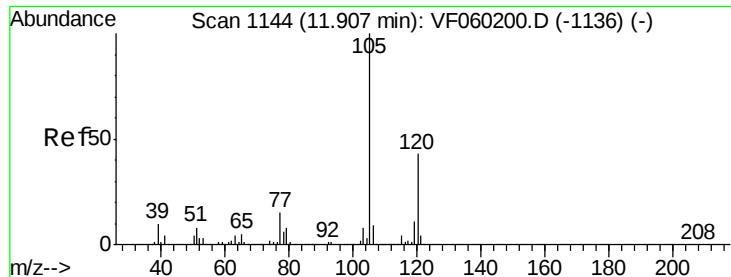


#74

N-ethyl acetate
Concen: 4.90 ug/l
RT: 11.47 min Scan# 1099
Delta R.T. 0.00 min
Lab File: VF060238.D
Acq: 10 Sep 2018 16:47

Tgt Ion: 43 Resp: 254
Ion Ratio Lower Upper
43 100
70 37.7 25.8 38.6
55 94.8 16.8 25.2#
61 0.0 18.9 28.3#





#80

1,3,5-Trimethylbenzene

Concen: 2.65 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

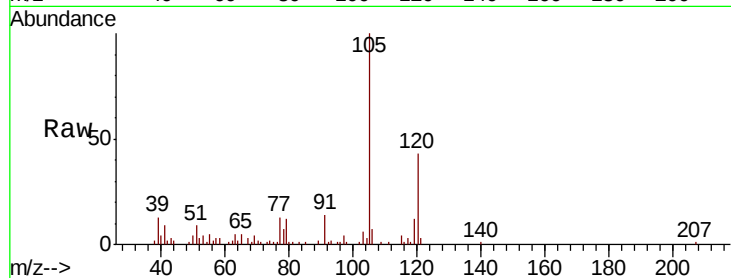
EP1-Q2-I6

Tot Ion:105 Resp: 24916

Ion Ratio Lower Upper

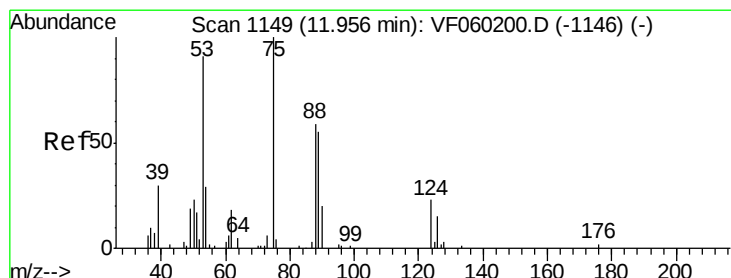
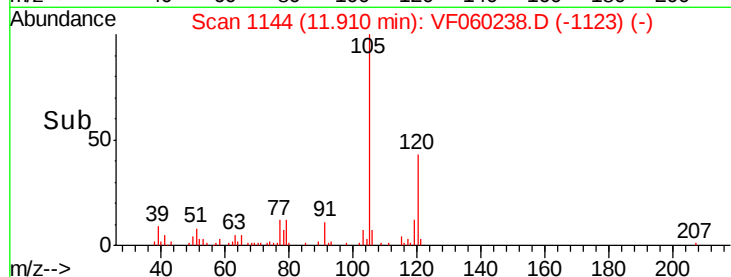
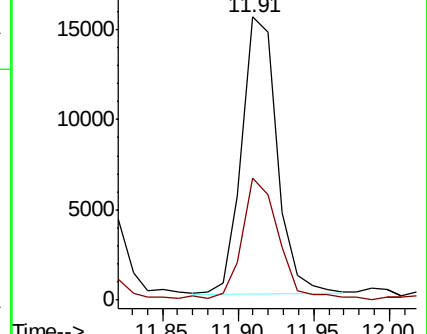
105 100

120 43.3 21.6 64.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 2.82 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

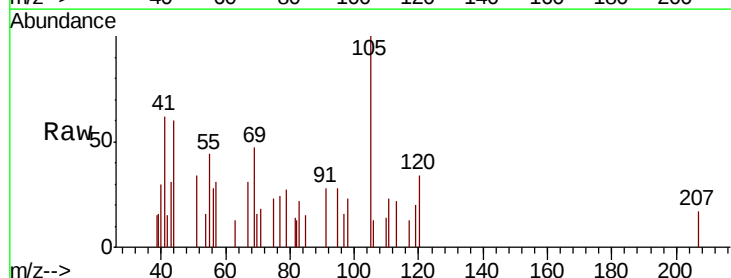
Tgt Ion: 75 Resp: 115

Ion Ratio Lower Upper

75 100

53 0.0 76.5 114.7#

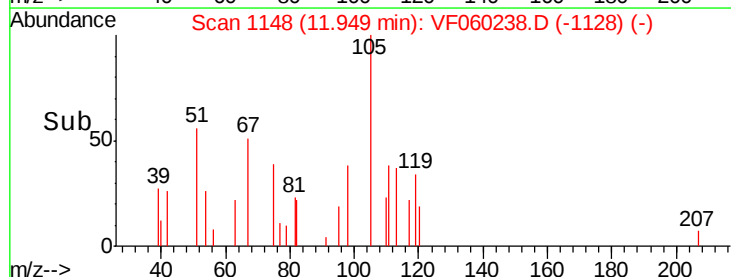
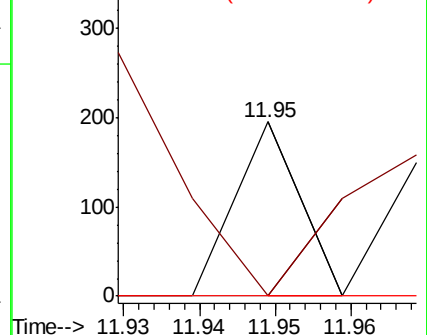
89 0.0 46.5 69.7#

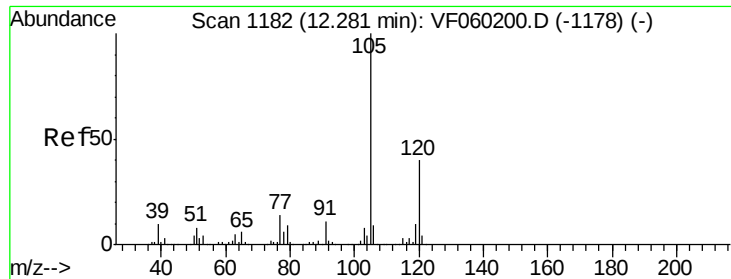


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

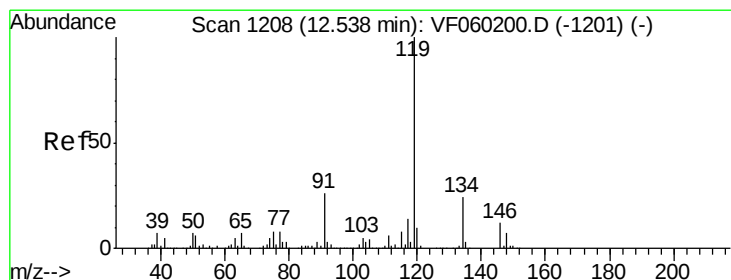
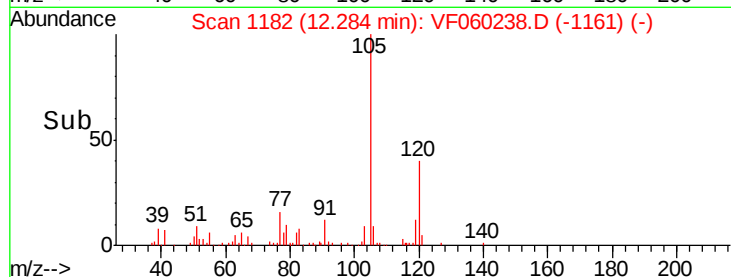
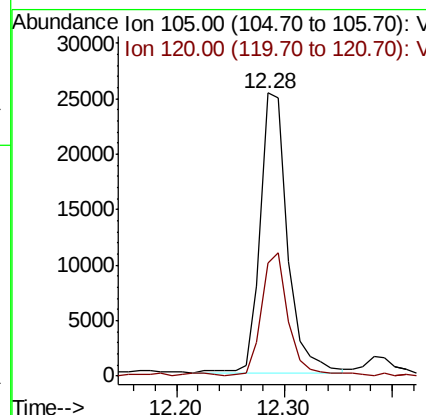
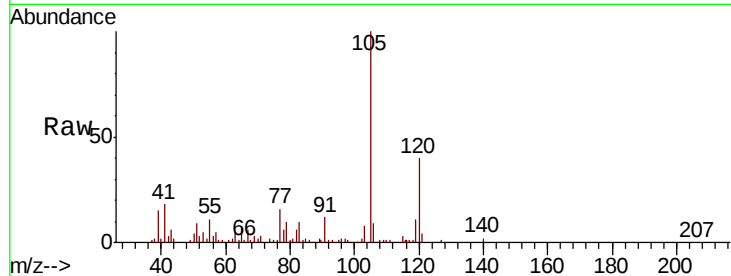




#84
 1,2,4-Trimethylbenzene
 Concen: 4.68 ug/l
 RT: 12.28 min Scan# 1182
 Delta R.T. 0.00 min
 Lab File: VF060238.D
 Acq: 10 Sep 2018 16:47

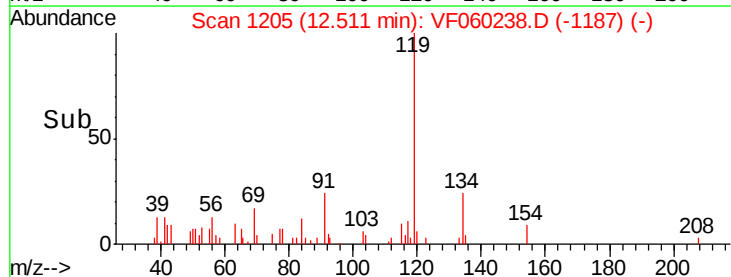
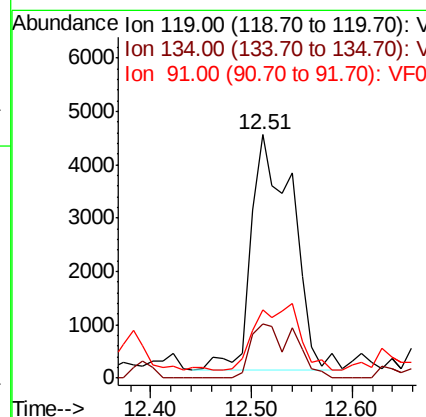
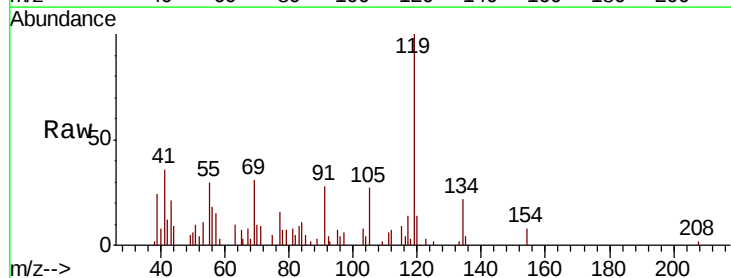
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-I6

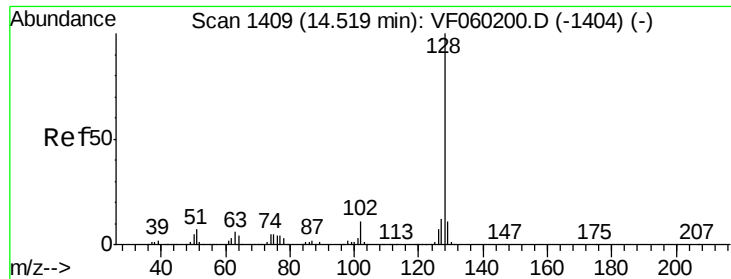
Tot Ion:105 Resp: 44726
 Ion Ratio Lower Upper
 105 100
 120 39.9 20.2 60.5



#86
 p-Isopropyltoluene
 Concen: 1.20 ug/l
 RT: 12.51 min Scan# 1205
 Delta R.T. -0.03 min
 Lab File: VF060238.D
 Acq: 10 Sep 2018 16:47

Tgt Ion:119 Resp: 12583
 Ion Ratio Lower Upper
 119 100
 134 22.0 12.0 36.0
 91 27.9 12.9 38.7





#95

Naphthalene

Concen: 3.20 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.00 min

Lab File: VF060238.D

Acq: 10 Sep 2018 16:47

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-I6

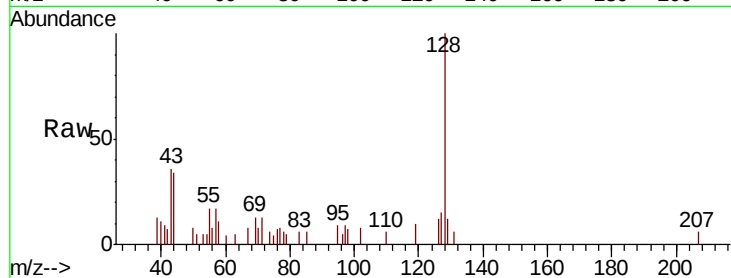
Tot Ion:128 Resp: 3620

Ion Ratio Lower Upper

128 100

127 15.3 9.9 14.9#

129 11.8 8.9 13.3



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

