

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF090718\
 Data File : VF060218.D
 Acq On : 7 Sep 2018 18:50
 Operator : VA/AP
 Sample : J4803-01
 Misc : 4.87g/5mL/MSVOA_F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E5

Quant Time: Sep 07 23:26:51 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	5.04	168	110825	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	170340	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	180455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	114894	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	119775	61.86	ug/l	0.00
Spiked Amount			Recovery	=	123.72%	
35) Dibromofluoromethane	4.29	113	96379	57.75	ug/l	0.00
Spiked Amount			Recovery	=	115.50%	
50) Toluene-d8	7.71	98	194513	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
62) 4-Bromofluorobenzene	11.51	95	115895	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	

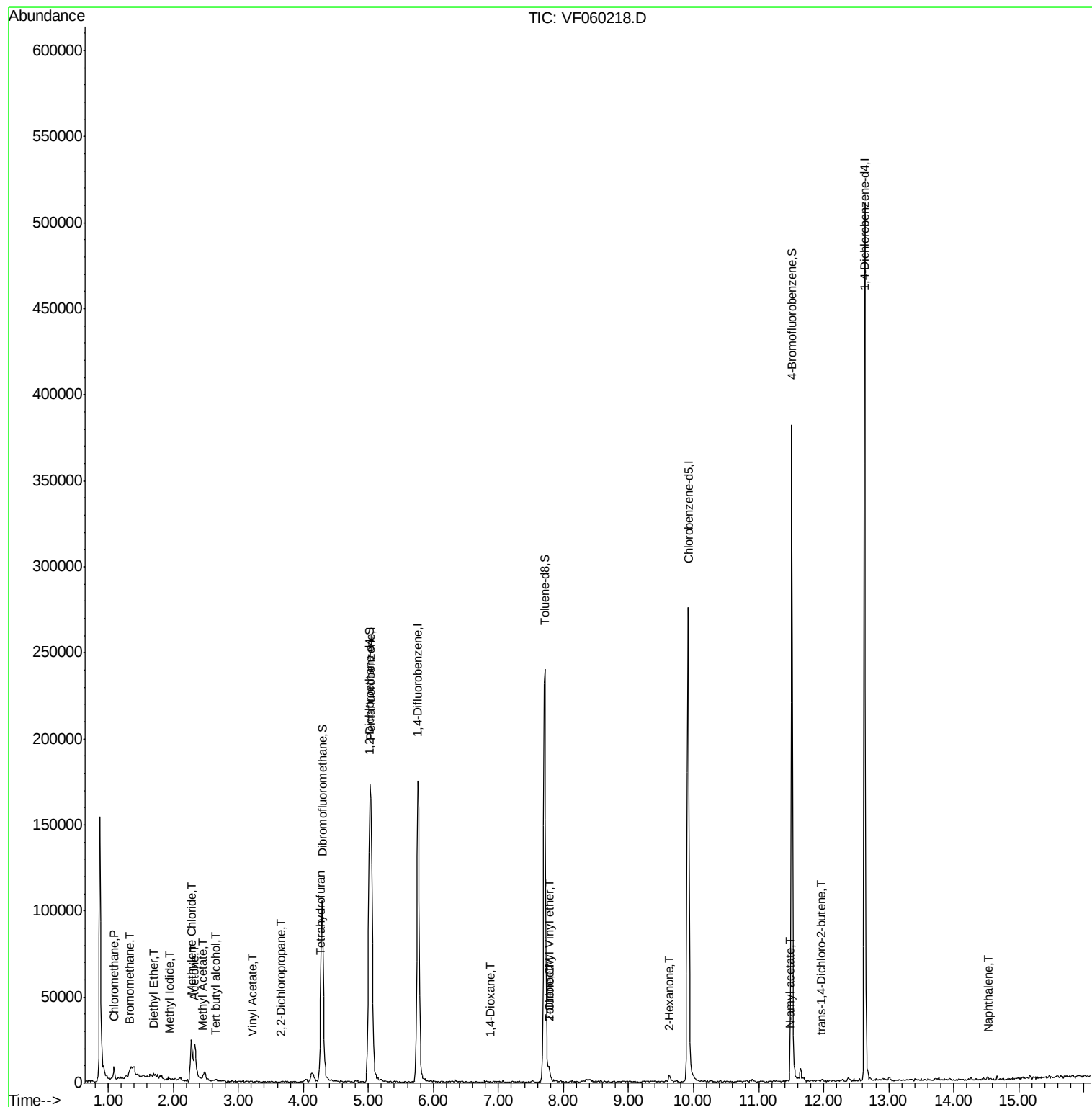
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	1452	1.303	ug/l	95
5) Bromomethane	1.32	94	1145	1.489	ug/l #	56
8) Diethyl Ether	1.70	74	433	1.223	ug/l	81
10) Methyl Iodide	1.95	142	1823	1.728	ug/l #	69
11) Tert butyl alcohol	2.65	59	704	18.440	ug/l #	75
13) Acrolein	2.08	56	79	Below Cal	#	69
16) Acetone	2.33	43	25135	54.945	ug/l	95
18) Methyl Acetate	2.45	43	2358	3.604	ug/l #	92
20) Methylene Chloride	2.28	84	14513	7.837	ug/l	94
23) Vinyl Acetate	3.22	43	66	22.845	ug/l #	82
26) 2,2-Dichloropropane	3.66	77	60	2.055	ug/l #	64
29) Tetrahydrofuran	4.25	42	227	1.262	ug/l #	40
37) Ethyl Acetate	4.24	43	218	Below Cal	#	17
49) 1,4-Dioxane	6.86	88	62	4.555	ug/l #	15
52) Toluene	7.78	92	2820	1.019	ug/l	75
58) 2-Chloroethyl Vinyl ether	7.78	63	552	4.413	ug/l	100
59) 2-Hexanone	9.62	43	4286	4.378	ug/l	92
64) Tetrachloroethene	8.31	164	69	Below Cal	#	1
74) N-amyl acetate	11.47	43	658	5.172	ug/l #	49
81) trans-1,4-Dichloro-2-buten	11.97	75	205	3.202	ug/l #	9
95) Naphthalene	14.52	128	1180	2.867	ug/l #	79

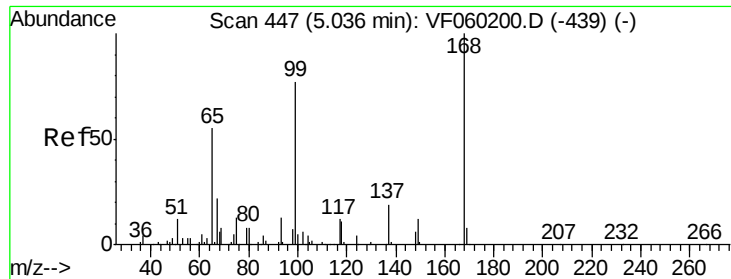
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

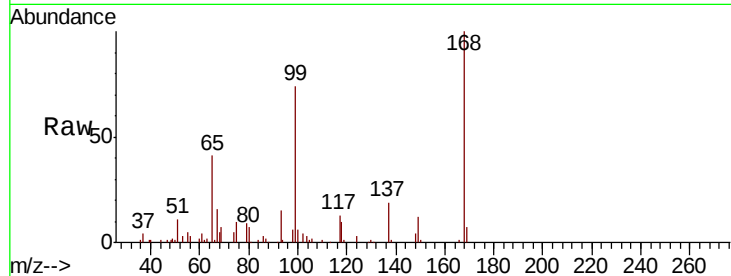
EP1-Q2-E5

Tgt Ion:168 Resp: 110825

Ion Ratio Lower Upper

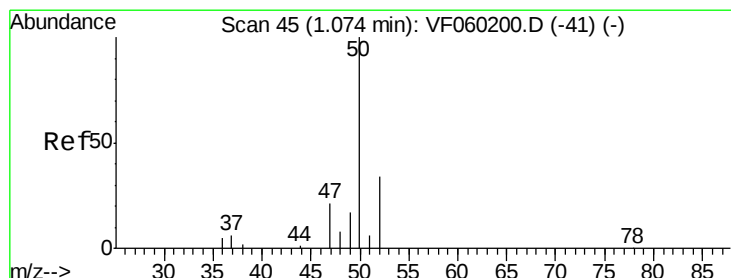
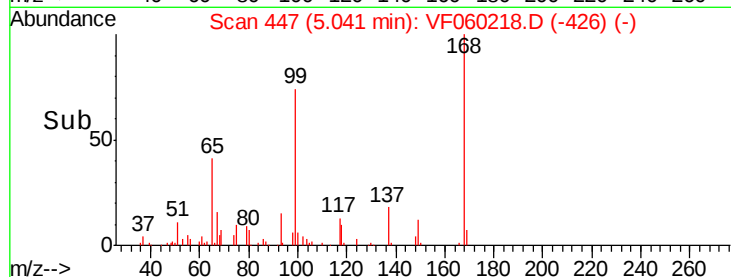
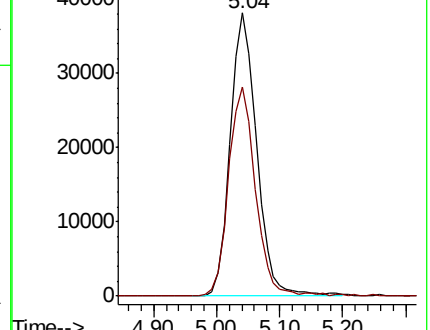
168 100

99 73.9 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.303 ug/l

RT: 1.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VF060218.D

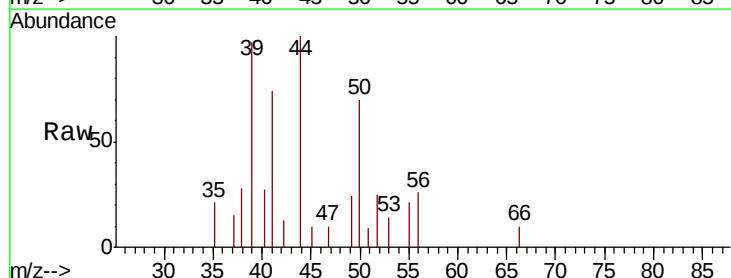
Acq: 7 Sep 2018 18:50

Tgt Ion: 50 Resp: 1452

Ion Ratio Lower Upper

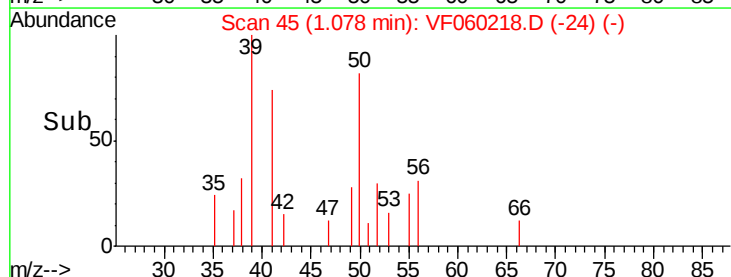
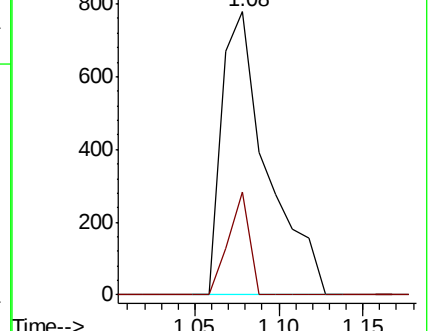
50 100

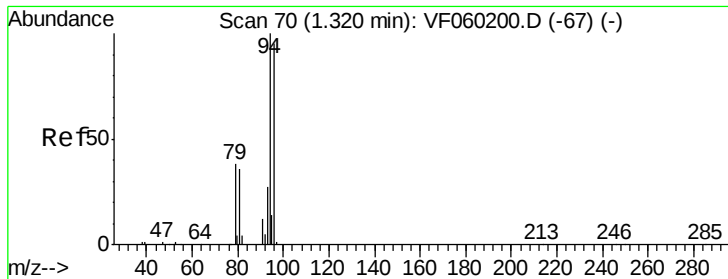
52 36.2 26.9 40.3



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 1.489 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

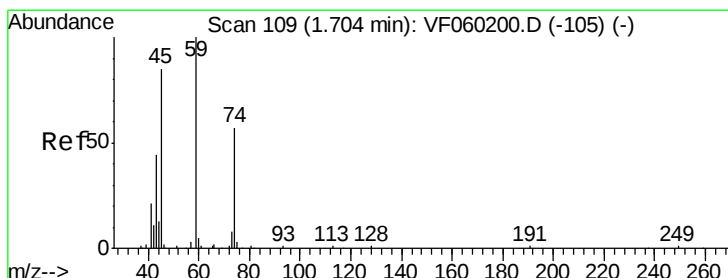
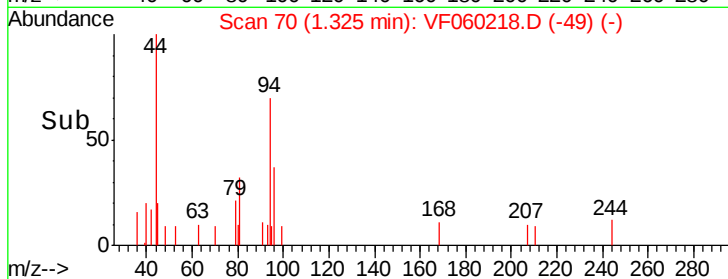
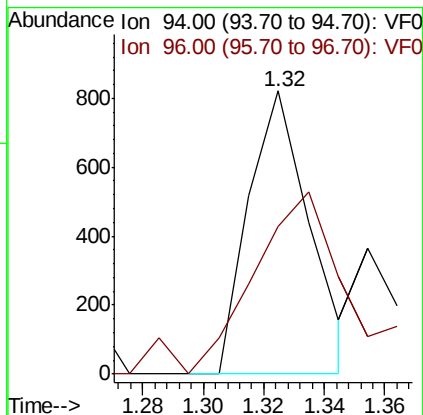
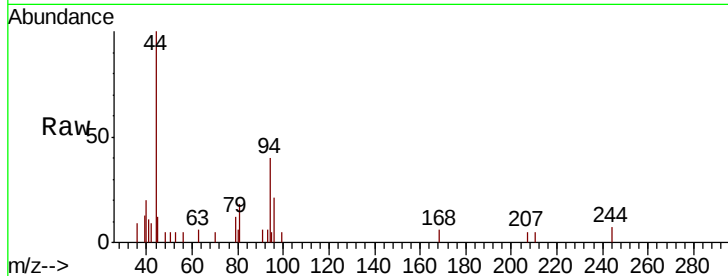
EP1-Q2-E5

Tgt Ion: 94 Resp: 1145

Ion Ratio Lower Upper

94 100

96 52.3 75.8 113.6#



#8

Diethyl Ether

Concen: 1.223 ug/l

RT: 1.70 min Scan# 108

Delta R.T. -0.01 min

Lab File: VF060218.D

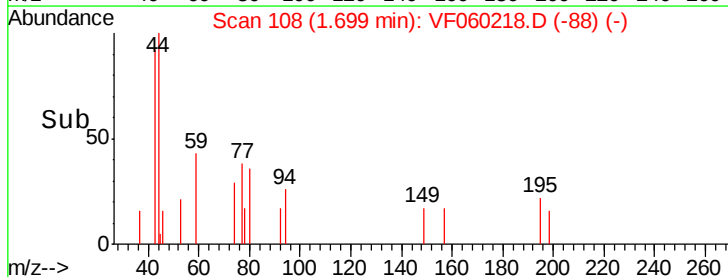
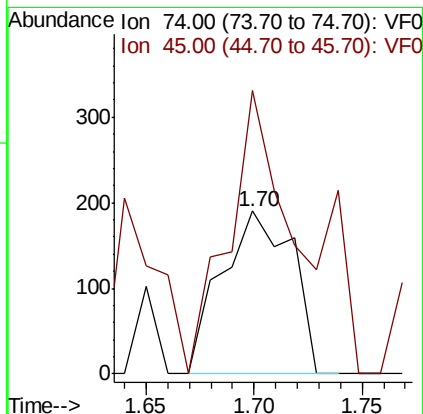
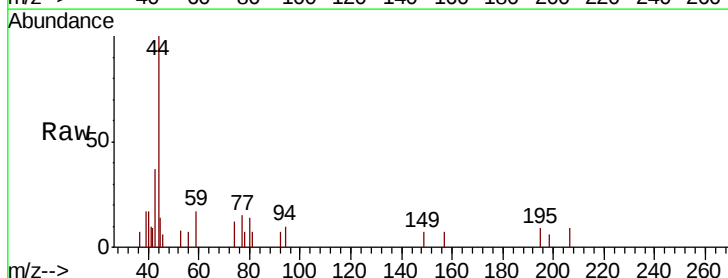
Acq: 7 Sep 2018 18:50

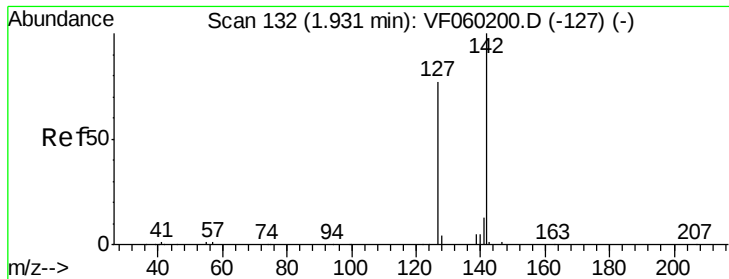
Tgt Ion: 74 Resp: 433

Ion Ratio Lower Upper

74 100

45 174.2 75.3 225.7

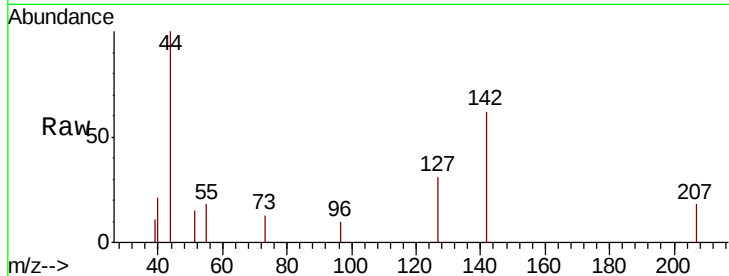




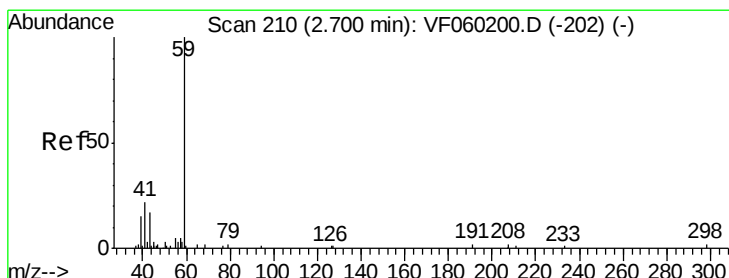
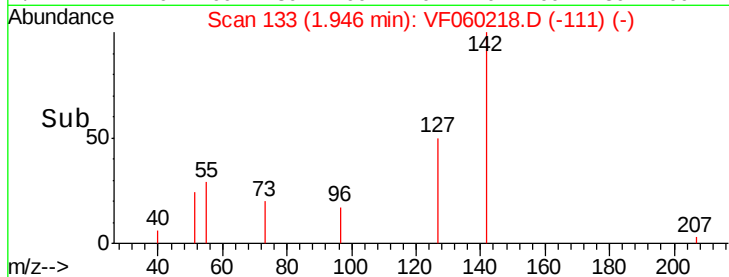
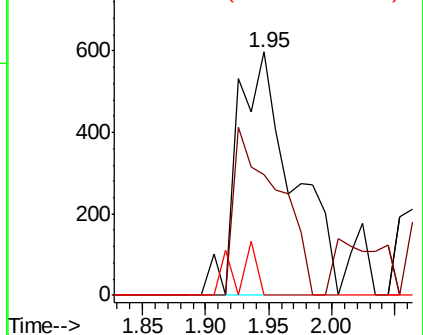
#10
Methyl Iodide
Concen: 1.728 ug/l
RT: 1.95 min Scan# 133
Delta R.T. 0.01 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

Tgt Ion: 142 Resp: 1823
Ion Ratio Lower Upper
142 100
127 49.7 61.1 91.7#
141 0.0 10.6 15.8#

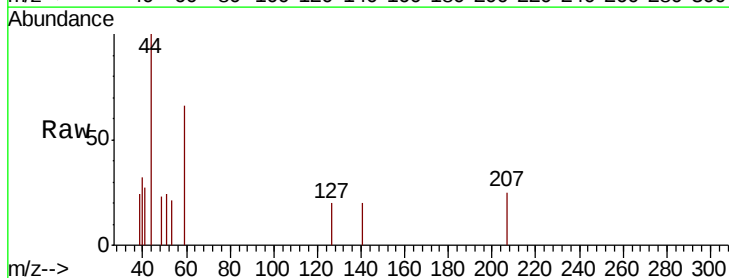


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V

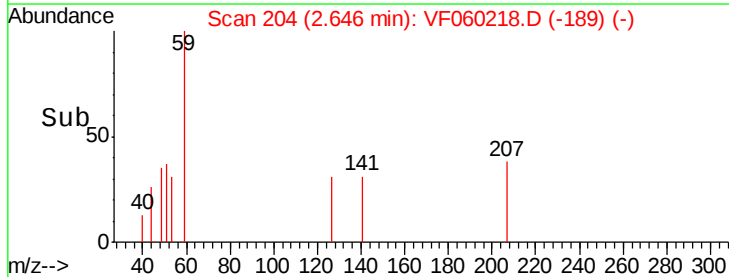
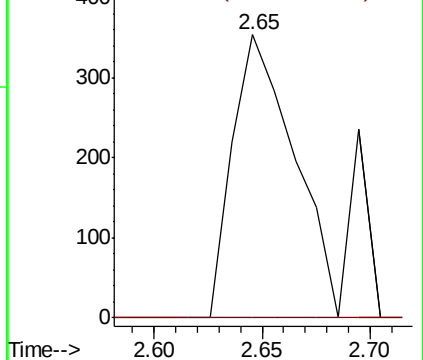


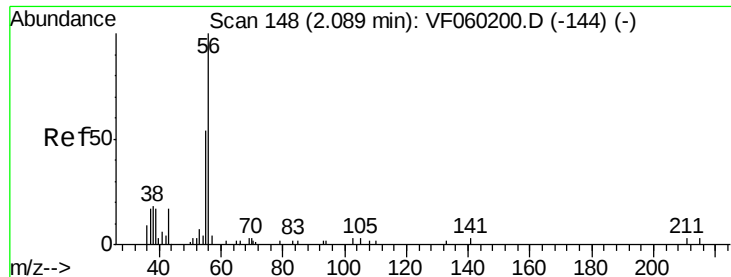
#11
Tert butyl alcohol
Concen: 18.440 ug/l
RT: 2.65 min Scan# 204
Delta R.T. -0.05 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

Tgt Ion: 59 Resp: 704
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: Below Cal

RT: 2.08 min Scan# 147

Delta R.T. -0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

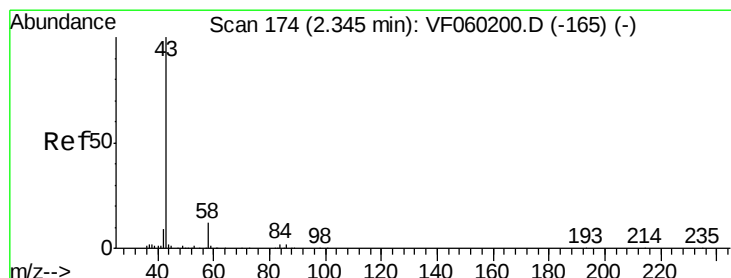
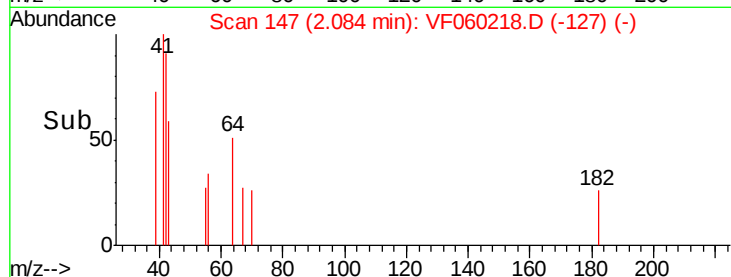
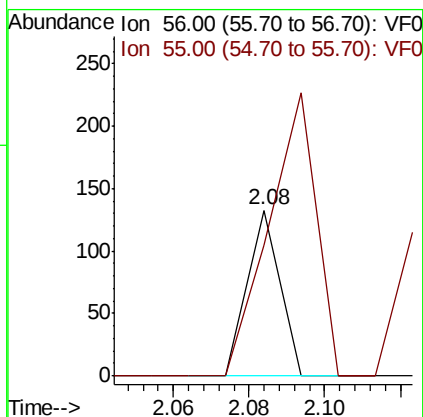
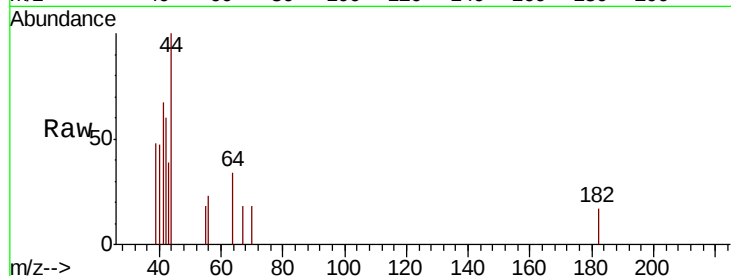
EP1-Q2-E5

Tgt Ion: 56 Resp: 79

Ion Ratio Lower Upper

56 100

55 78.9 45.1 67.7#



#16

Acetone

Concen: 54.945 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060218.D

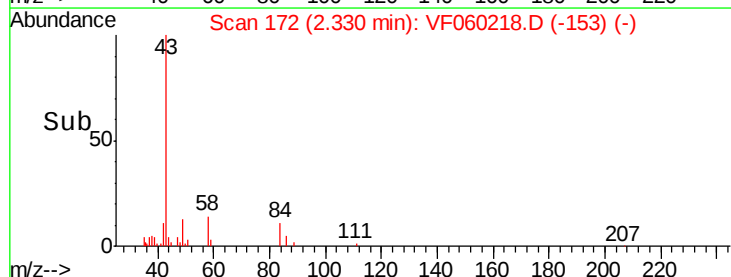
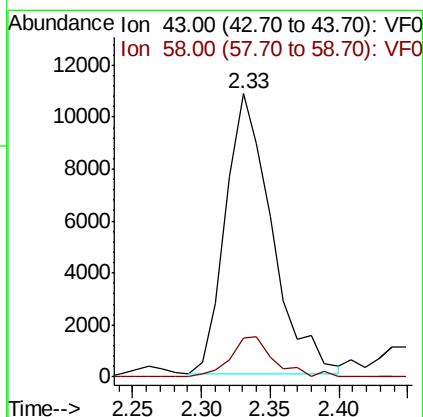
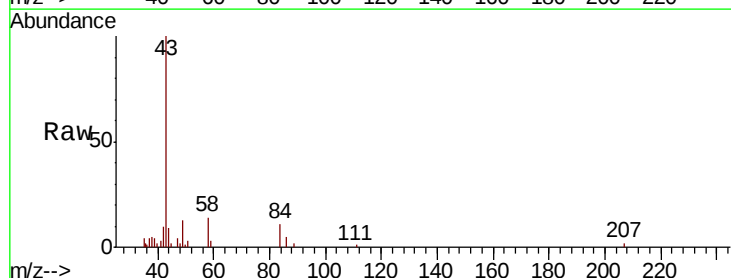
Acq: 7 Sep 2018 18:50

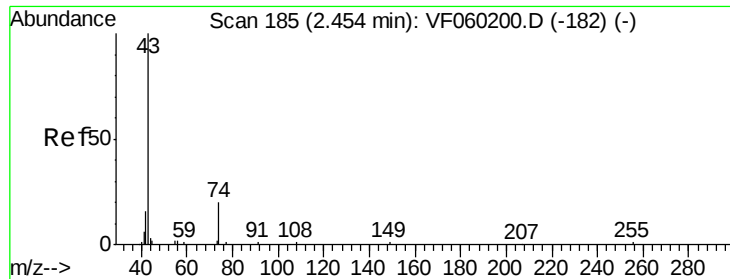
Tgt Ion: 43 Resp: 25135

Ion Ratio Lower Upper

43 100

58 13.9 9.7 14.5

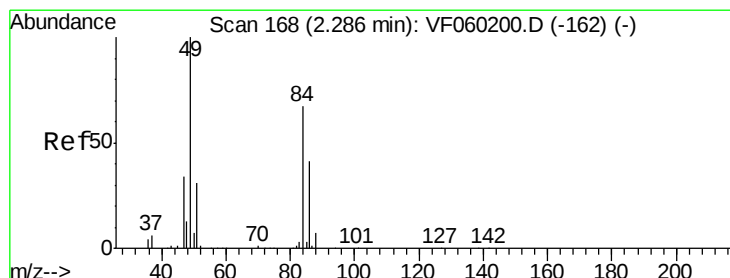
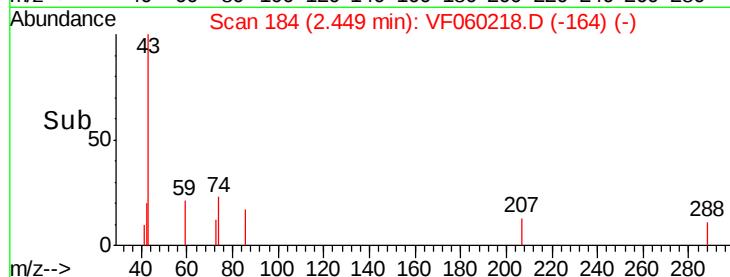
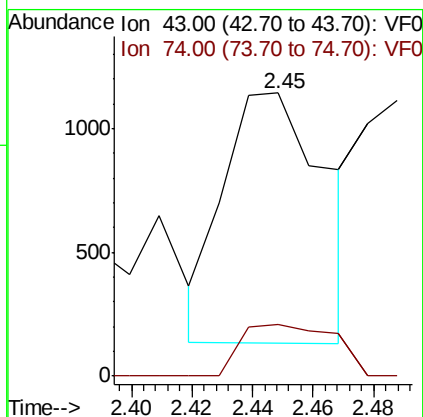
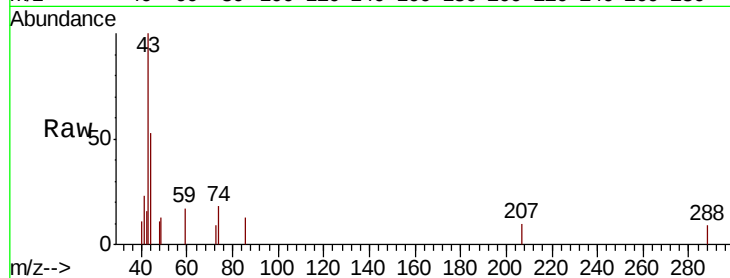




#18
Methyl Acetate
Concen: 3.604 ug/l
RT: 2.45 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

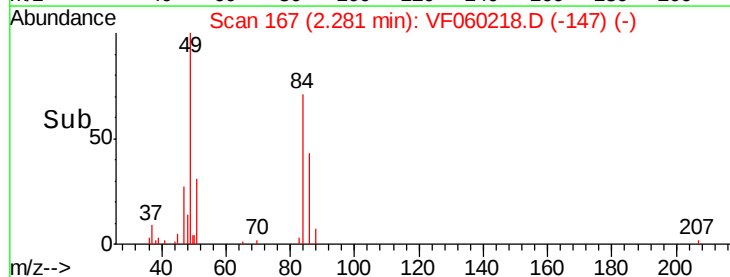
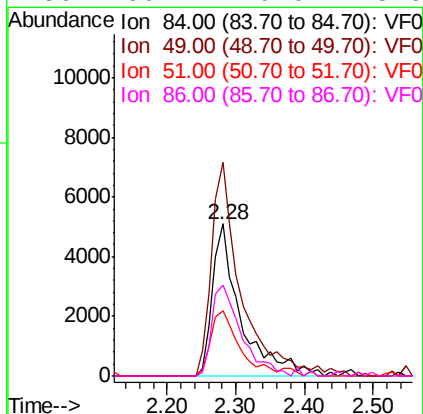
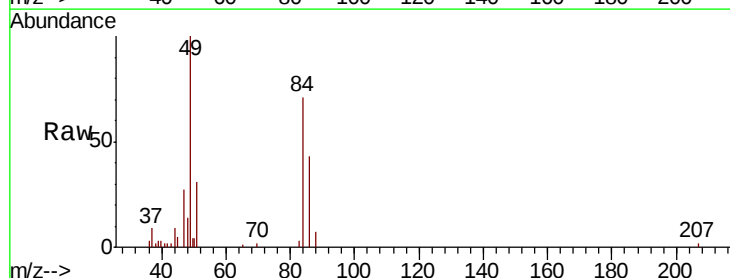
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

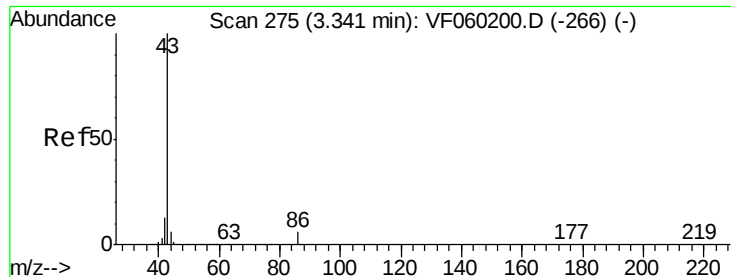
Tgt Ion: 43 Resp: 2358
Ion Ratio Lower Upper
43 100
74 18.4 11.9 17.9#



#20
Methylene Chloride
Concen: 7.837 ug/l
RT: 2.28 min Scan# 167
Delta R.T. -0.01 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

Tgt Ion: 84 Resp: 14513
Ion Ratio Lower Upper
84 100
49 140.6 120.1 180.1
51 42.9 37.0 55.6
86 60.1 49.0 73.6





#23

Vinyl Acetate

Concen: 22.845 ug/l

RT: 3.22 min Scan# 262

Delta R.T. -0.12 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

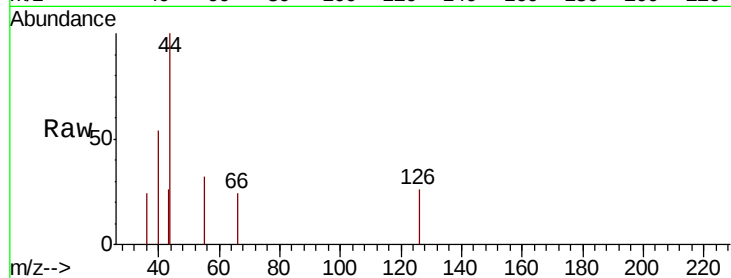
EP1-Q2-E5

Tgt Ion: 43 Resp: 66

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

3.22

100

80

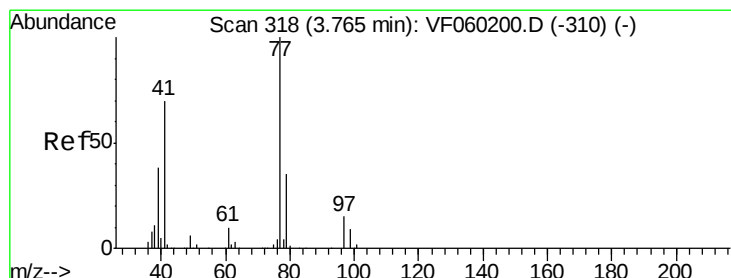
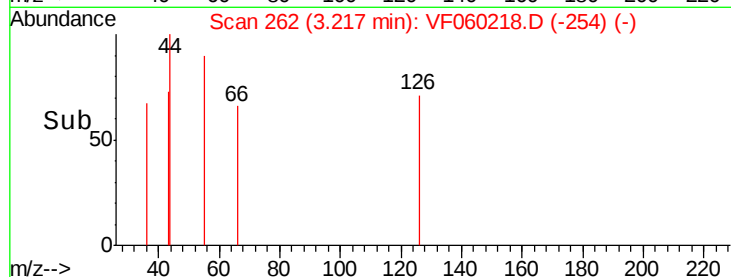
60

40

20

0

Time--> 3.18 3.20 3.22 3.24



#26

2,2-Dichloropropane

Concen: 2.055 ug/l

RT: 3.66 min Scan# 307

Delta R.T. -0.10 min

Lab File: VF060218.D

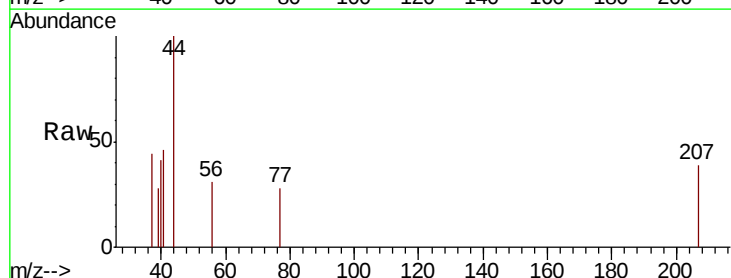
Acq: 7 Sep 2018 18:50

Tgt Ion: 77 Resp: 60

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

3.66

100

80

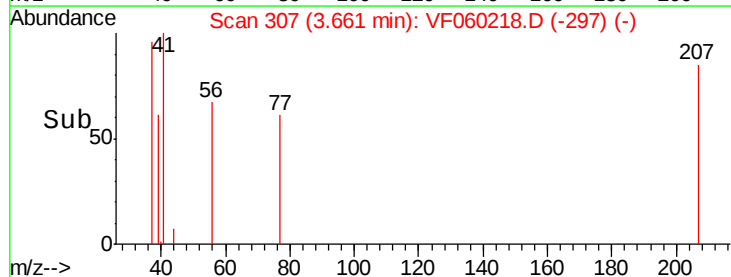
60

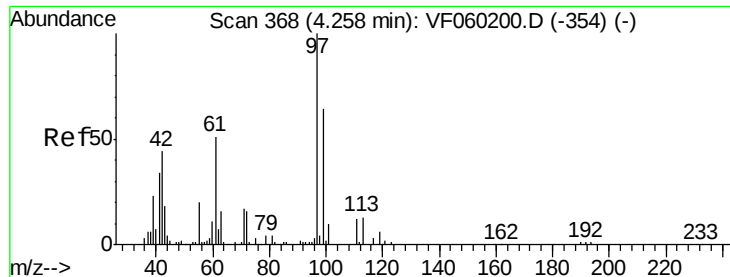
40

20

0

Time--> 3.64 3.66 3.68

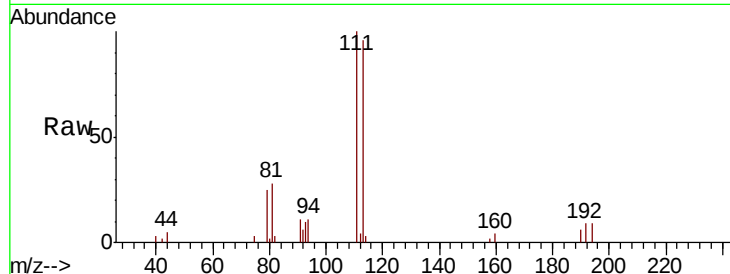




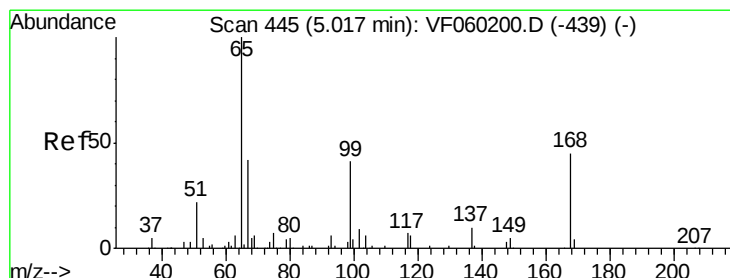
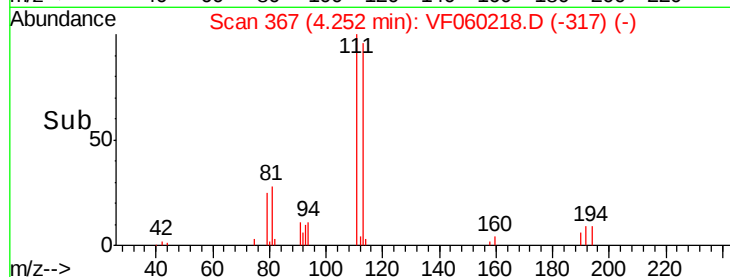
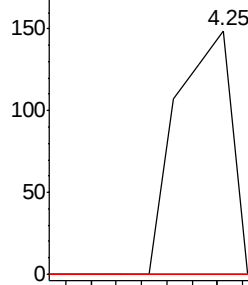
#29
Tetrahydrofuran
Concen: 1.262 ug/l
RT: 4.25 min Scan# 367
Delta R.T. -0.01 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

Tgt Ion: 42 Resp: 227
Ion Ratio Lower Upper
42 100
72 0.0 27.4 41.0#
71 0.0 28.5 42.7#

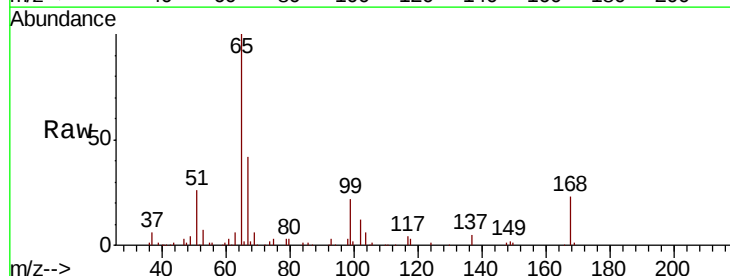


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

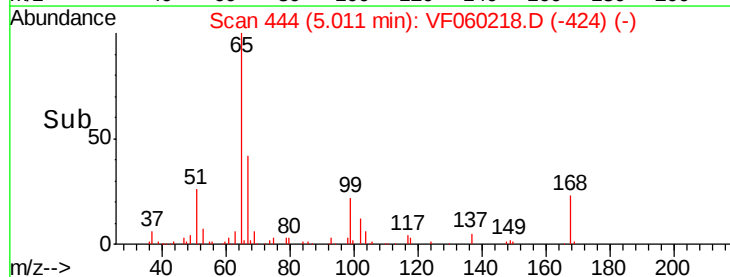
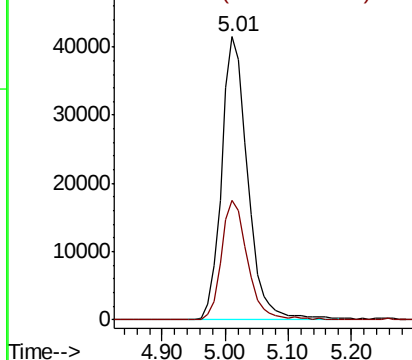


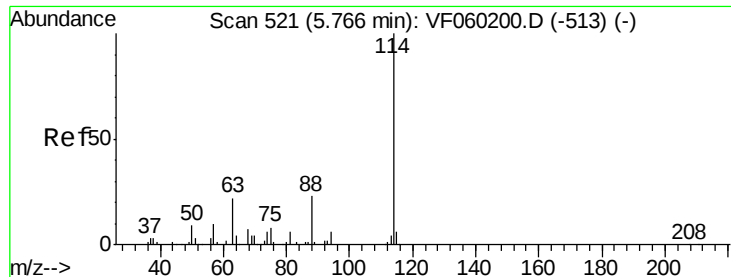
#33
1,2-Dichloroethane-d4
Concen: 61.865 ug/l
RT: 5.01 min Scan# 444
Delta R.T. -0.01 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

Tgt Ion: 65 Resp: 119775
Ion Ratio Lower Upper
65 100
67 42.3 0.0 87.2



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

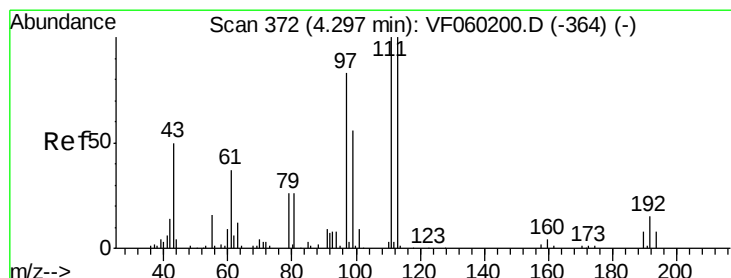
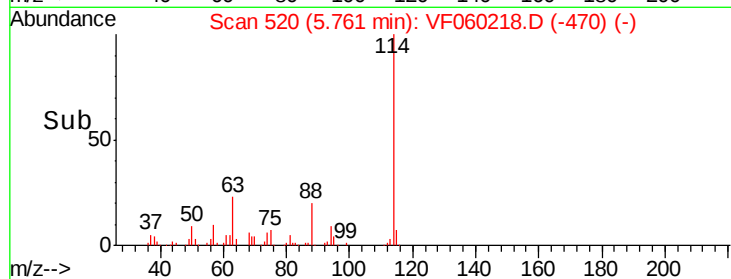
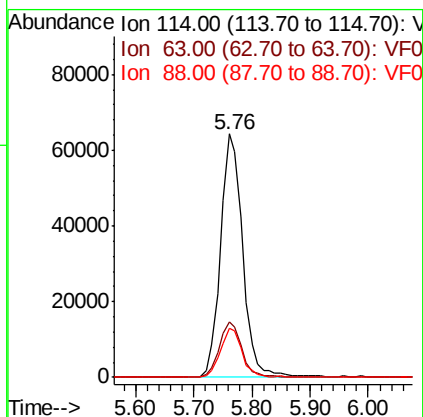
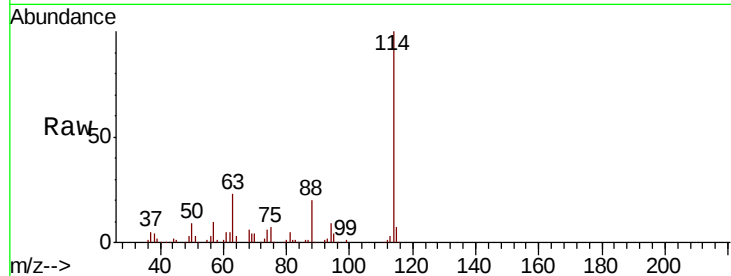




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 520
 Delta R.T. -0.01 min
 Lab File: VF060218.D
 Acq: 7 Sep 2018 18:50

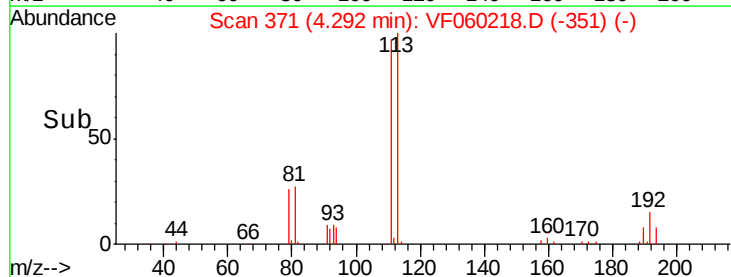
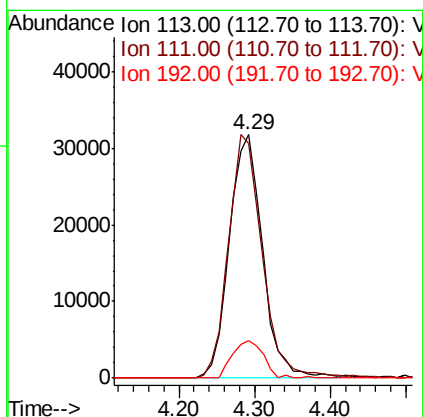
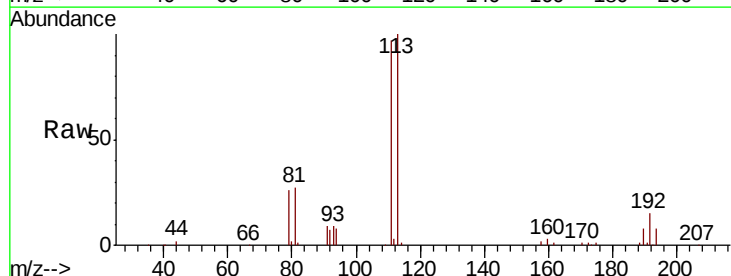
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-Q2-E5

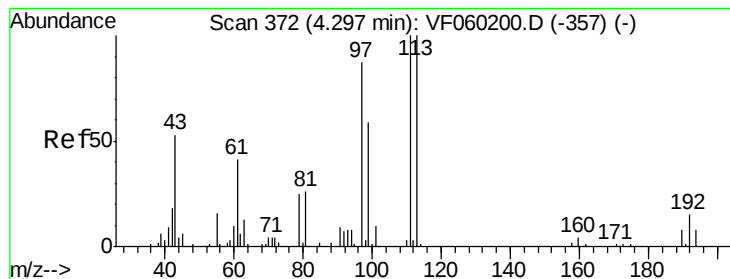
Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	45.6
88	20.2	0.0	46.4



#35
 Dibromofluoromethane
 Concen: 57.751 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: VF060218.D
 Acq: 7 Sep 2018 18:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	96.7	80.2	120.2
192	15.3	11.8	17.8





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.24 min Scan# 366

Delta R.T. -0.05 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampled :

EP1-Q2-E5

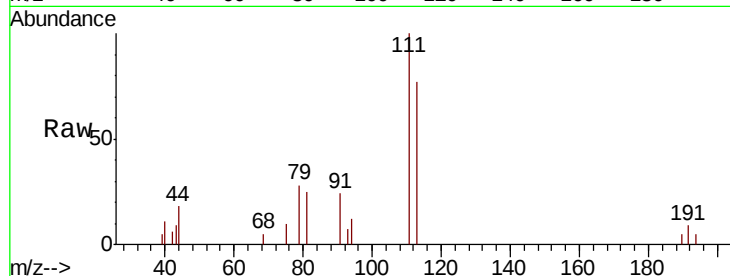
Tgt Ion: 43 Resp: 218

Ion Ratio Lower Upper

43 100

61 0.0 61.6 92.4#

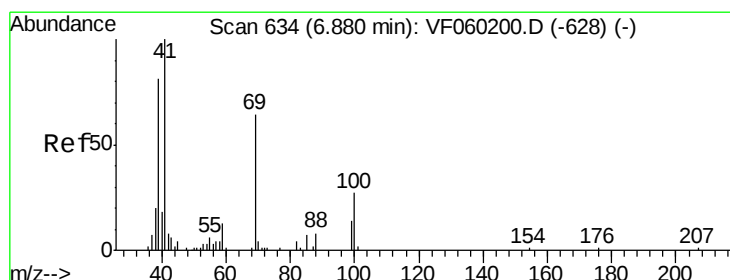
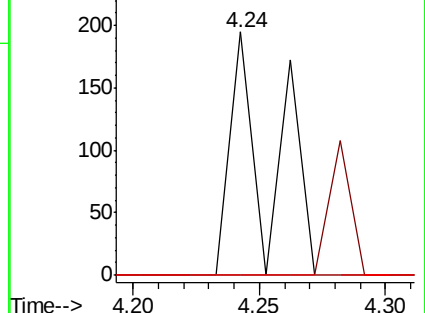
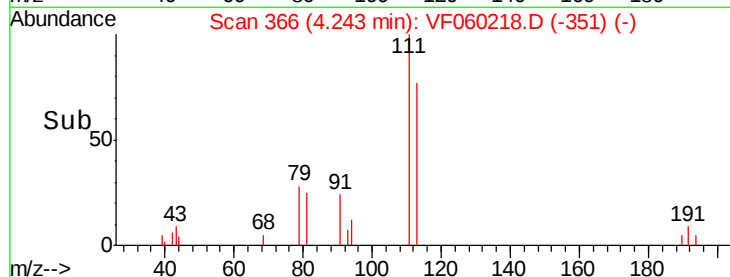
70 0.0 6.9 10.3#



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



#49

1,4-Dioxane

Concen: 4.555 ug/l

RT: 6.86 min Scan# 632

Delta R.T. -0.01 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

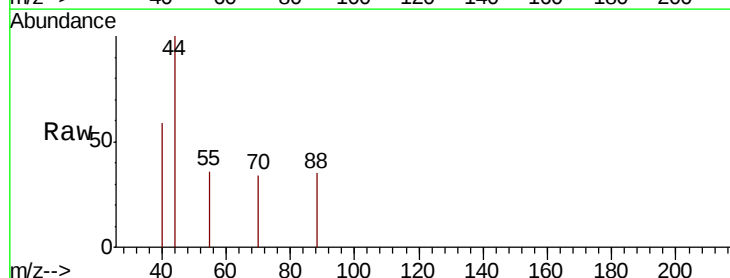
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 0.0 68.1 102.1#

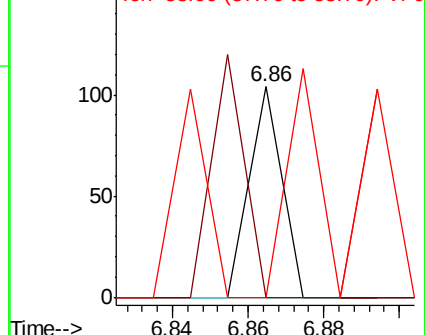
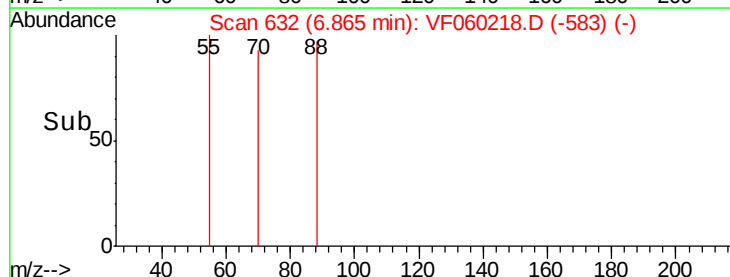
58 0.0 38.1 57.1#

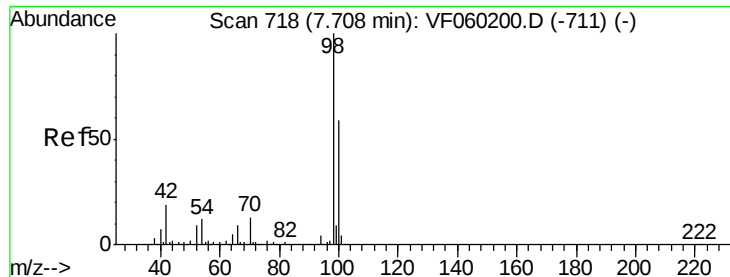


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 46.707 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

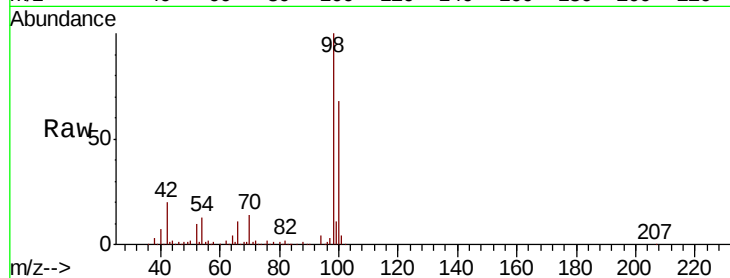
EP1-Q2-E5

Tgt Ion: 98 Resp: 194513

Ion Ratio Lower Upper

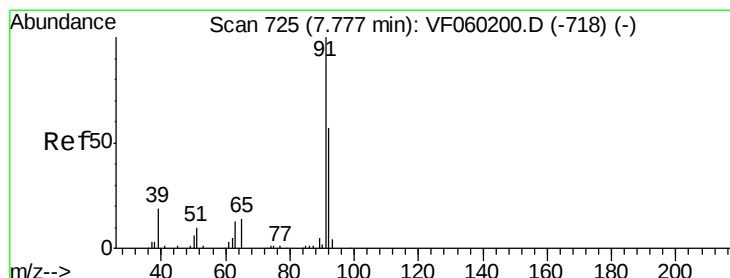
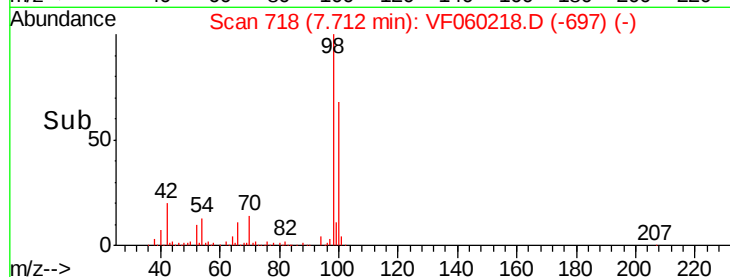
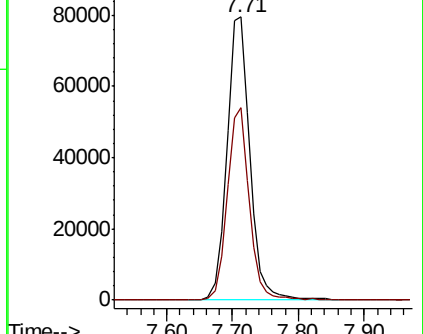
98 100

100 67.8 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#52

Toluene

Concen: 1.019 ug/l

RT: 7.78 min Scan# 725

Delta R.T. 0.00 min

Lab File: VF060218.D

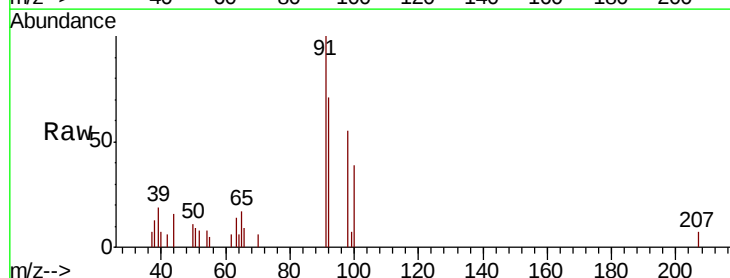
Acq: 7 Sep 2018 18:50

Tgt Ion: 92 Resp: 2820

Ion Ratio Lower Upper

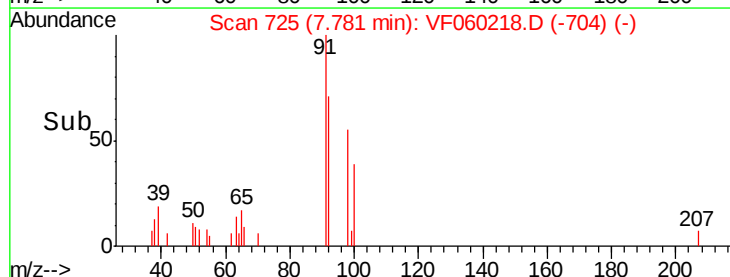
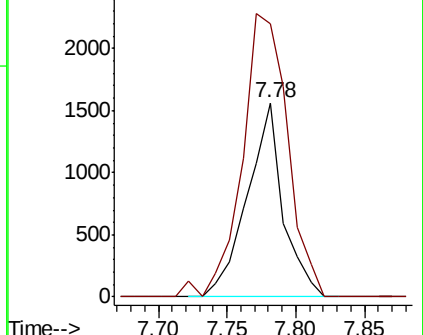
92 100

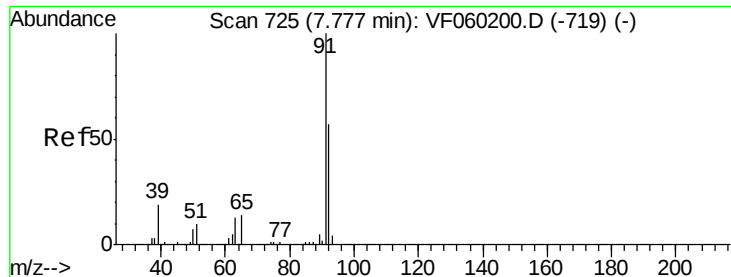
91 140.7 140.0 210.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 4.413 ug/l

RT: 7.78 min Scan# 725

Delta R.T. 0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

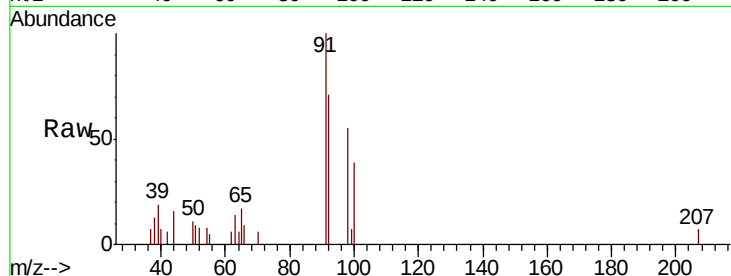
EP1-Q2-E5

Tgt Ion: 63 Resp: 552

Ion Ratio Lower Upper

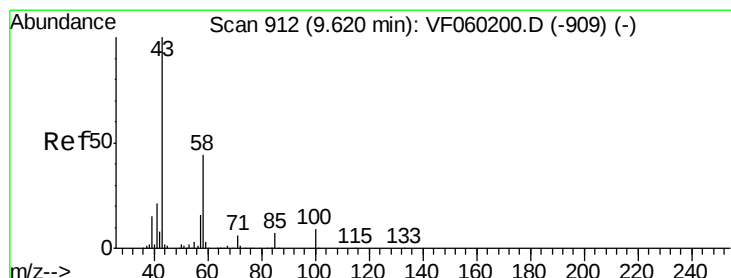
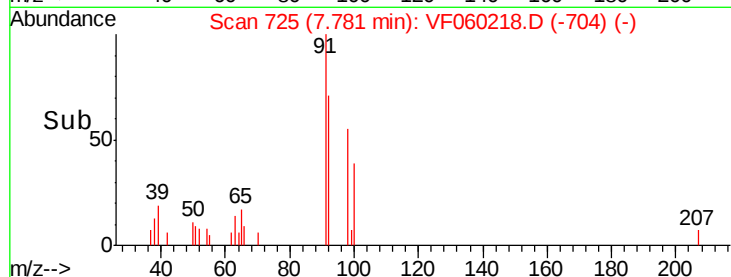
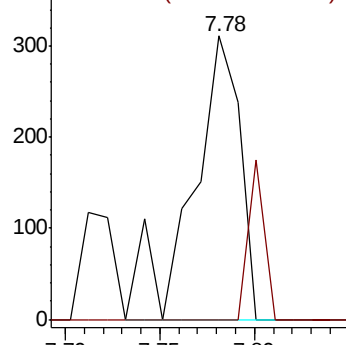
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 4.378 ug/l

RT: 9.62 min Scan# 912

Delta R.T. 0.01 min

Lab File: VF060218.D

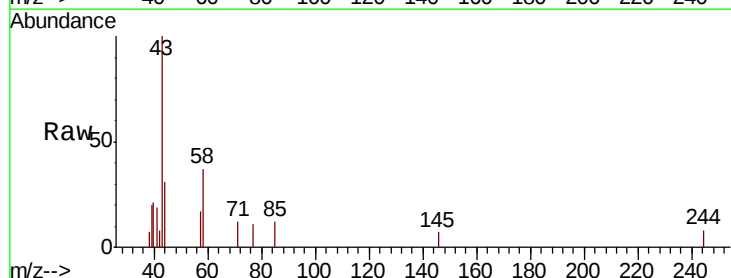
Acq: 7 Sep 2018 18:50

Tgt Ion: 43 Resp: 4286

Ion Ratio Lower Upper

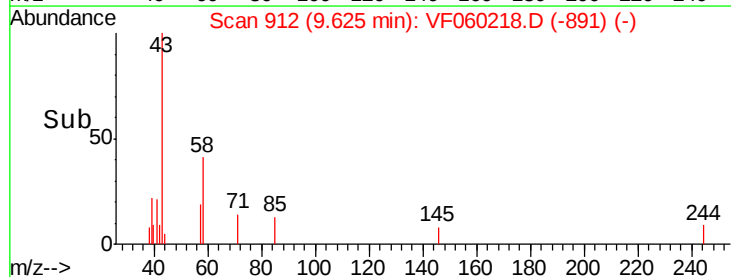
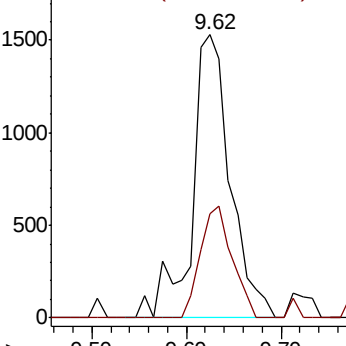
43 100

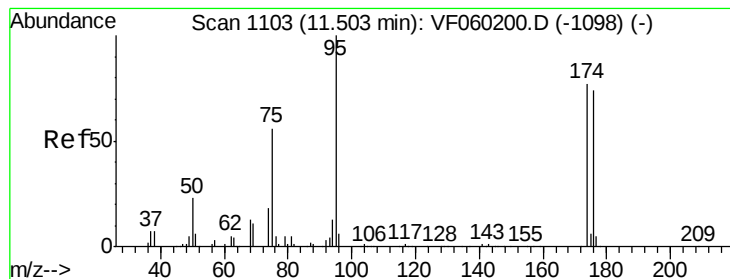
58 36.6 20.8 62.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 49.324 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E5

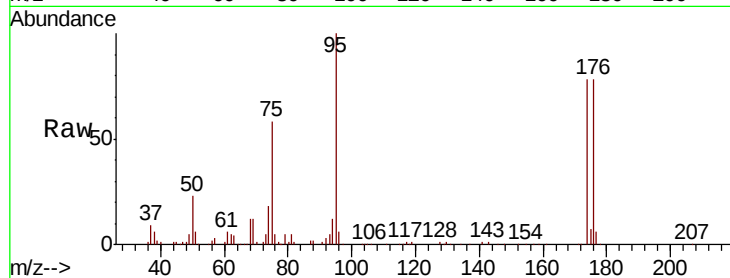
Tgt Ion: 95 Resp: 115895

Ion Ratio Lower Upper

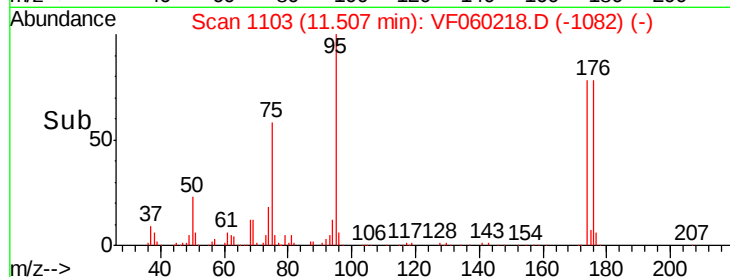
95 100

174 78.3 0.0 153.2

176 77.5 0.0 147.2



Abundance Ion 95.00 (94.70 to 95.70): VF060218.D (-1082) (-)



Ion 174.00 (173.70 to 174.70): VF060218.D (-1082) (-)

Ion 176.00 (175.70 to 176.70): VF060218.D (-1082) (-)

Time-->

11.40 11.50 11.60

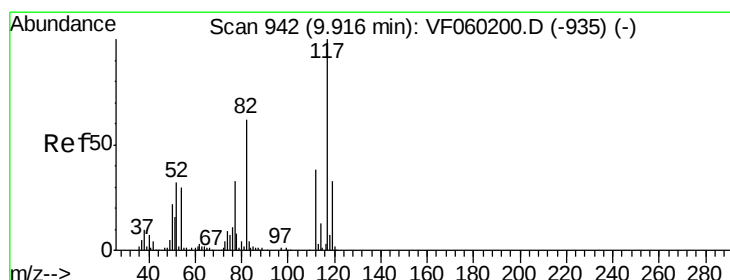
80000

60000

40000

20000

0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

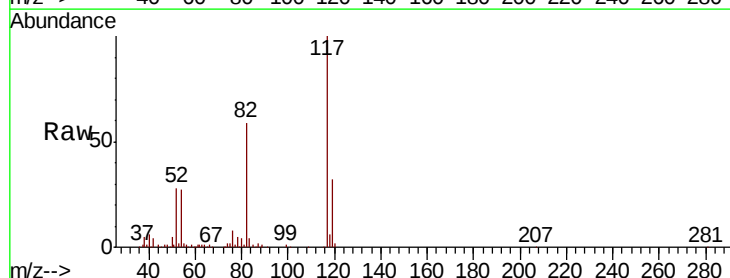
Tgt Ion: 117 Resp: 180455

Ion Ratio Lower Upper

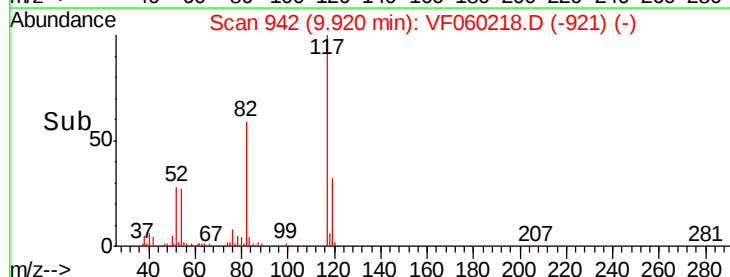
117 100

82 59.4 49.3 73.9

119 32.1 26.5 39.7



Abundance Ion 117.00 (116.70 to 117.70): VF060218.D (-921) (-)



Ion 82.00 (81.70 to 82.70): VF060218.D (-921) (-)

Ion 119.00 (118.70 to 119.70): VF060218.D (-921) (-)

Time-->

9.80 9.90 10.00 10.10

100000

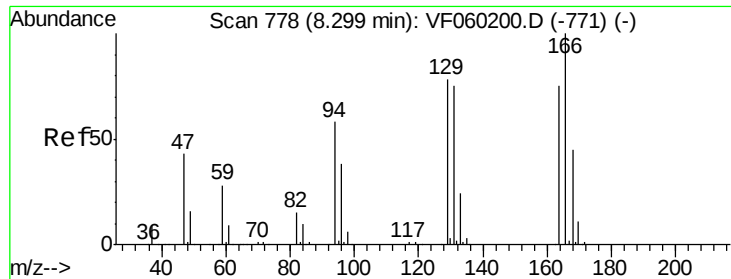
80000

60000

40000

20000

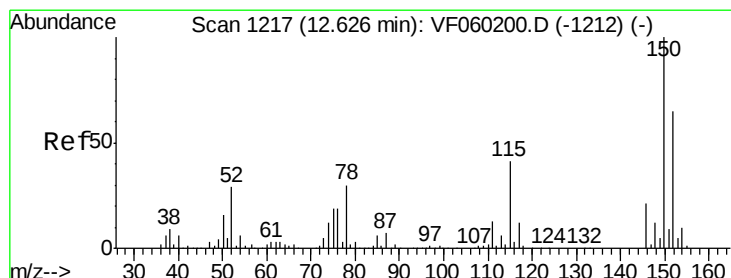
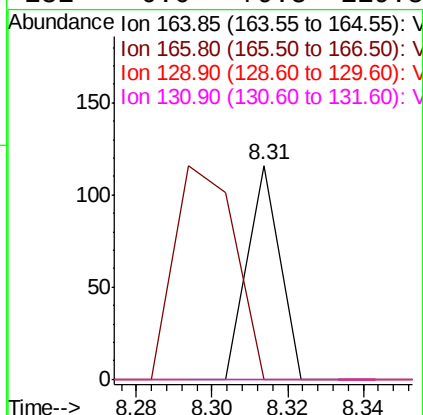
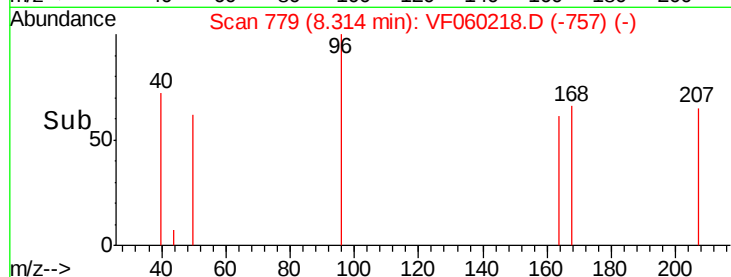
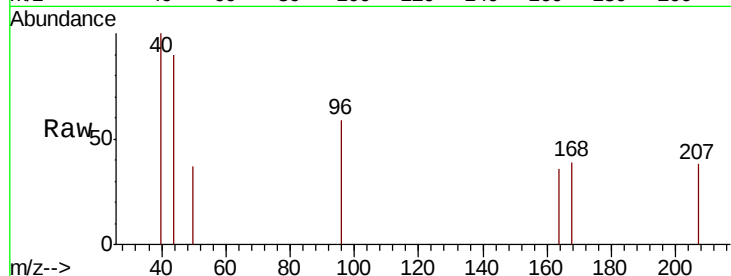
0



#64
Tetrachloroethene
Concen: Below Cal
RT: 8.31 min Scan# 779
Delta R.T. 0.02 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

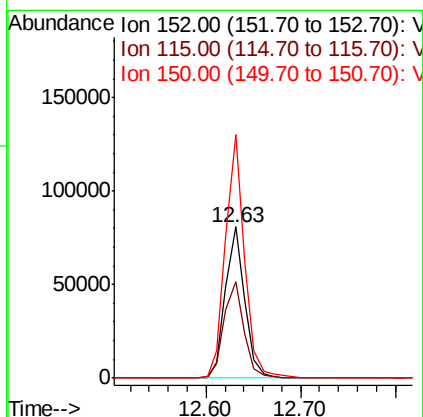
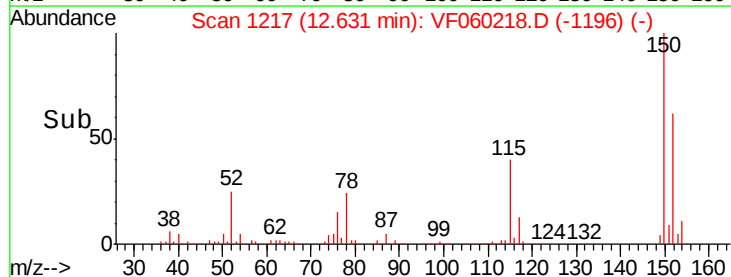
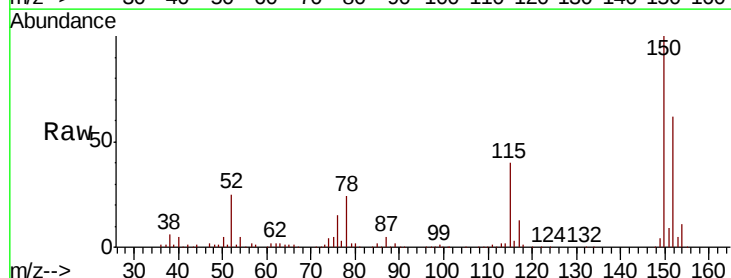
Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

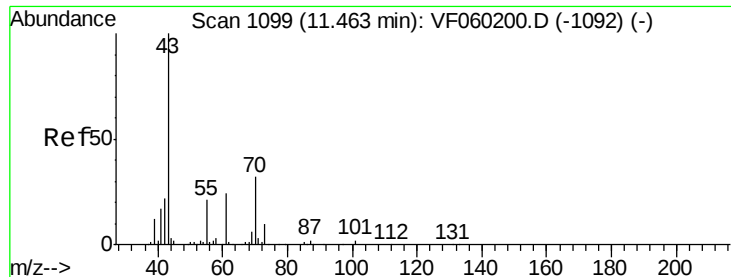
Tgt Ion:164 Resp: 69
Ion Ratio Lower Upper
164 100
166 0.0 107.0 160.4#
129 0.0 83.0 124.6#
131 0.0 79.8 119.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

Tgt Ion:152 Resp: 114894
Ion Ratio Lower Upper
152 100
115 63.9 31.5 94.5
150 160.9 0.0 310.4





#74

N-amyI acetate

Concen: 5.172 ug/l

RT: 11.47 min Scan# 1099

Delta R.T. 0.00 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

Instrument :

MSVOA_F

ClientSampleId :

EP1-Q2-E5

Tgt Ion: 43 Resp: 658

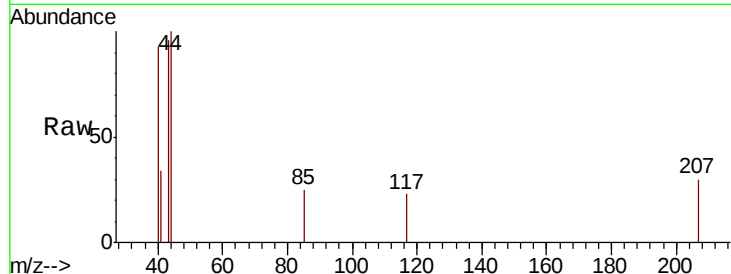
Ion Ratio Lower Upper

43 100

70 0.0 25.8 38.6#

55 0.0 16.8 25.2#

61 0.0 18.9 28.3#

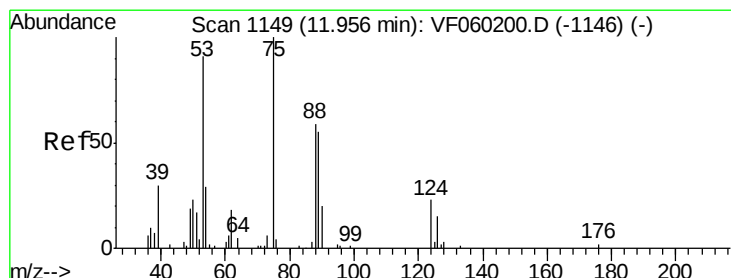
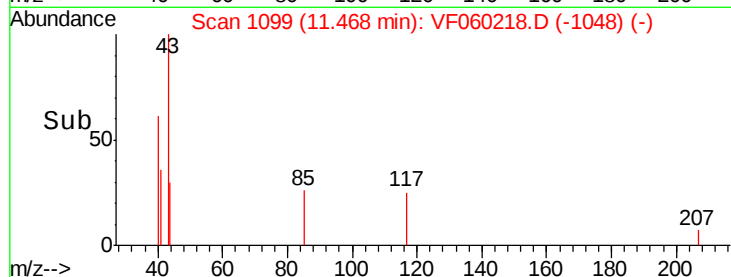
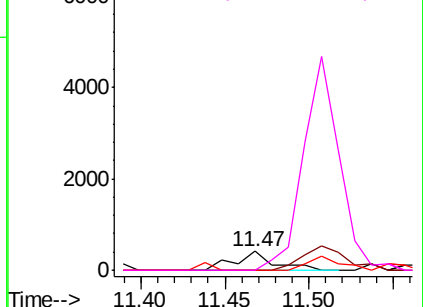


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#81

trans-1,4-Dichloro-2-butene

Concen: 3.202 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF060218.D

Acq: 7 Sep 2018 18:50

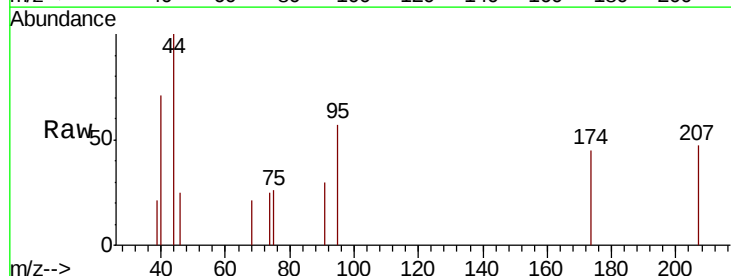
Tgt Ion: 75 Resp: 205

Ion Ratio Lower Upper

75 100

53 0.0 76.5 114.7#

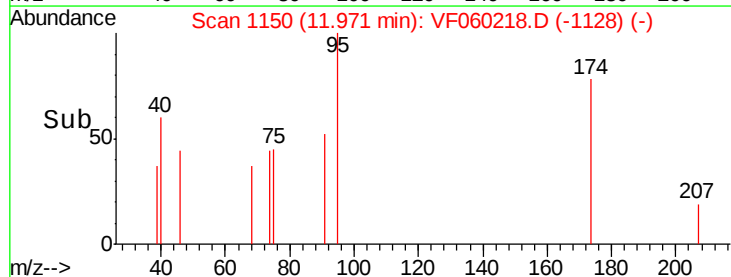
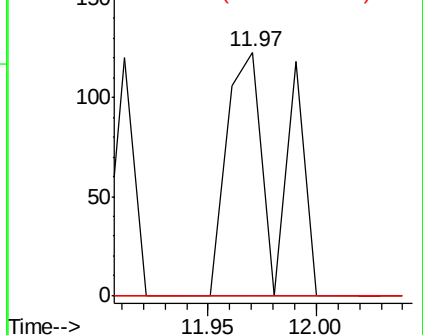
89 0.0 46.5 69.7#

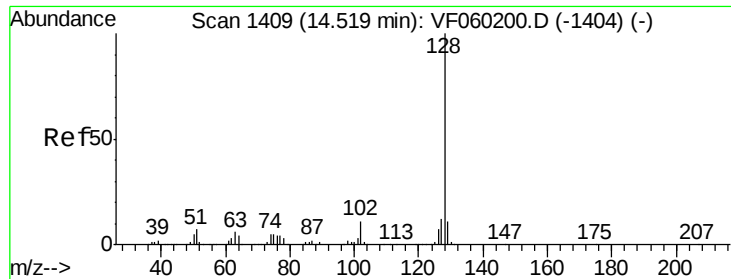


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#95
Naphthalene
Concen: 2.867 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. 0.01 min
Lab File: VF060218.D
Acq: 7 Sep 2018 18:50

Instrument :
MSVOA_F
ClientSampleId :
EP1-Q2-E5

Tgt Ion	Ratio	Lower	Upper
128	100		
127	22.6	9.9	14.9#
129	17.3	8.9	13.3#

