

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF091018\
 Data File : VF060227.D
 Acq On : 10 Sep 2018 11:37
 Operator : VA/AP
 Sample : VF0910SBL01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBL01

Quant Time: Sep 10 13:13:59 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	169929	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	240852	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	265576	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	172086	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	151642	51.08	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.16%		
35) Dibromofluoromethane	4.29	113	131623	55.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	111.56%		
50) Toluene-d8	7.71	98	307703	52.26	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.52%		
62) 4-Bromofluorobenzene	11.51	95	181154	54.53	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.06%		

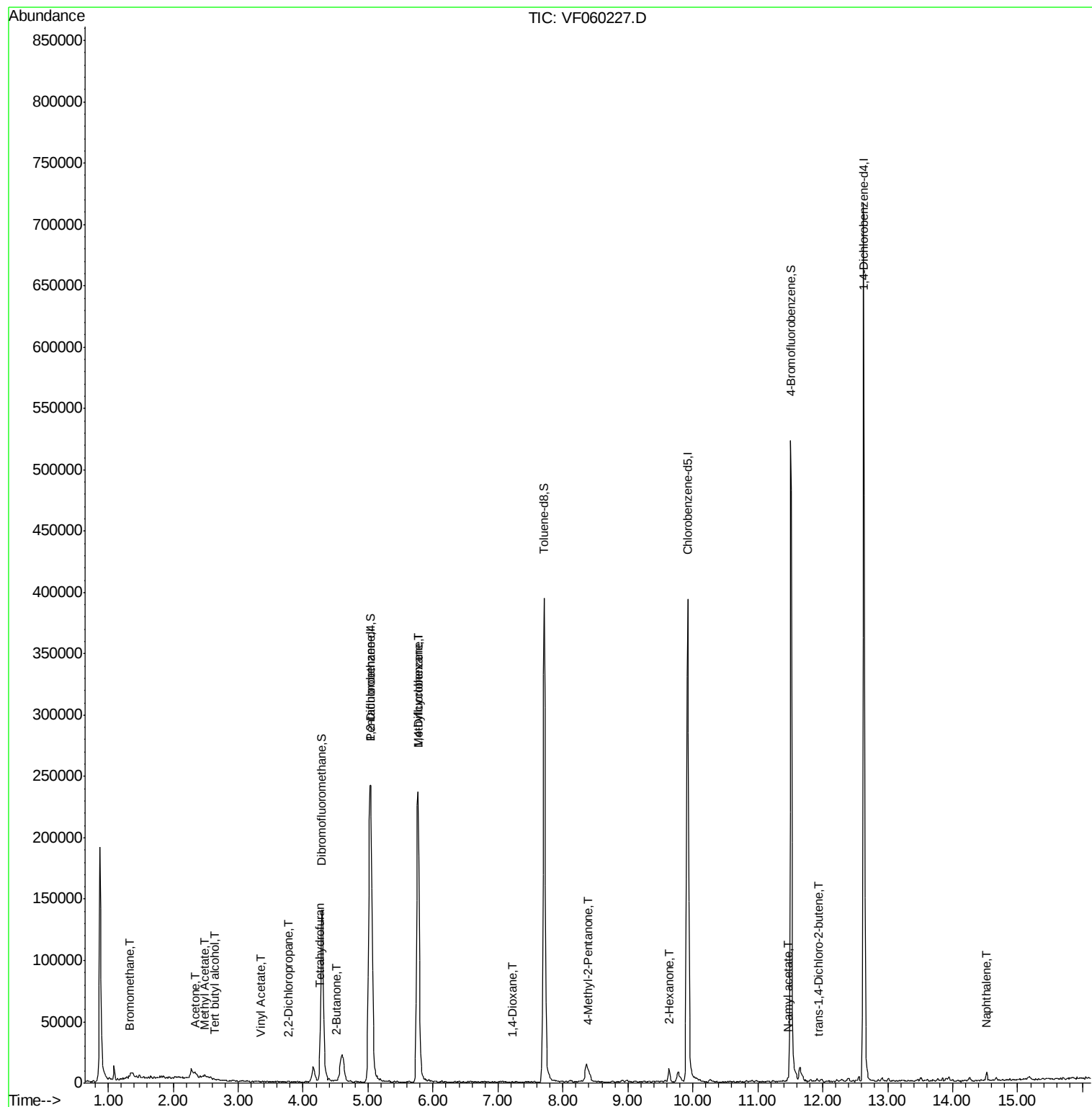
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.32	94	1613	1.368	ug/l #	71
11) Tert butyl alcohol	2.64	59	88	12.988	ug/l #	75
13) Acrolein	2.09	56	107	Below Cal	#	1
16) Acetone	2.33	43	3856	16.745	ug/l #	92
18) Methyl Acetate	2.49	43	3143	3.133	ug/l #	64
20) Methylene Chloride	2.29	84	4527	Below Cal	#	73
23) Vinyl Acetate	3.33	43	189	22.886	ug/l #	82
25) 2-Butanone	4.52	43	2555	3.062	ug/l #	59
26) 2,2-Dichloropropane	3.76	77	66	2.049	ug/l #	64
29) Tetrahydrofuran	4.25	42	722	2.618	ug/l #	57
37) Ethyl Acetate	4.28	43	713	Below Cal	#	17
39) Methylcyclohexane	5.76	83	2490	1.049	ug/l #	44
49) 1,4-Dioxane	7.21	88	66	3.429	ug/l #	15
51) 4-Methyl-2-Pentanone	8.40	43	5589	3.815	ug/l #	83
59) 2-Hexanone	9.63	43	9677	7.694	ug/l	96
64) Tetrachloroethene	8.31	164	65	Below Cal	#	53
74) N-amyl acetate	11.46	43	2156	5.620	ug/l #	75
81) trans-1,4-Dichloro-2-buten	11.94	75	109	2.777	ug/l #	9
95) Naphthalene	14.52	128	4277	3.233	ug/l #	89

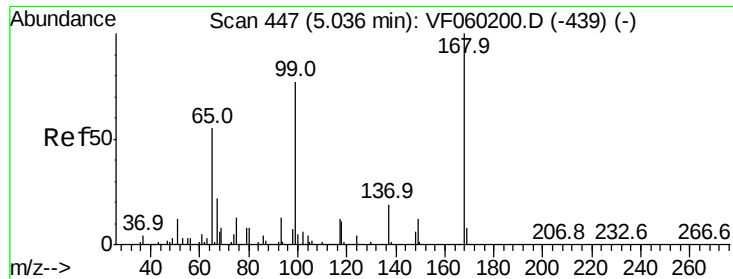
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.01 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

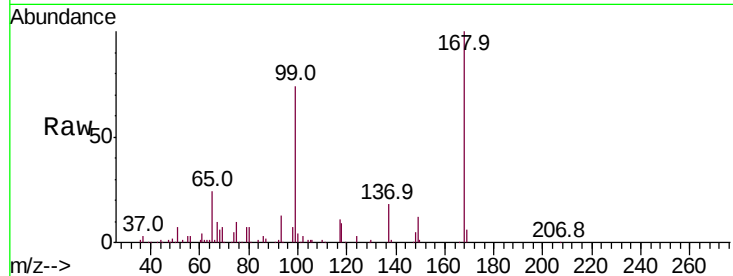
VF0910SBL01

Tot Ion:168 Resp: 169929

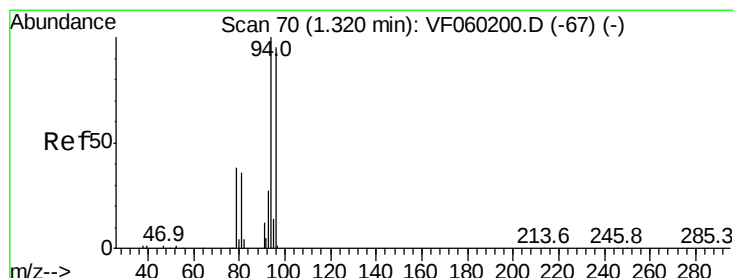
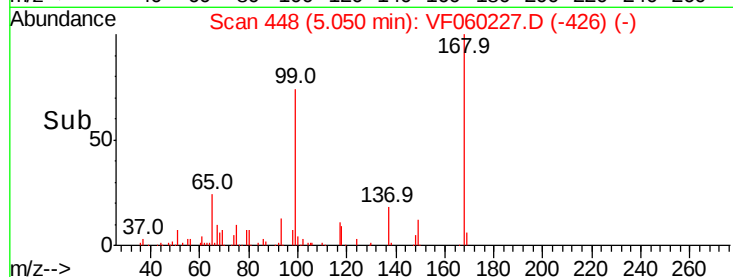
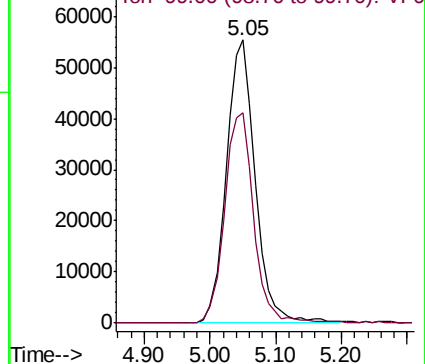
Ion Ratio Lower Upper

168 100

99 74.2 61.8 92.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 1.368 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF060227.D

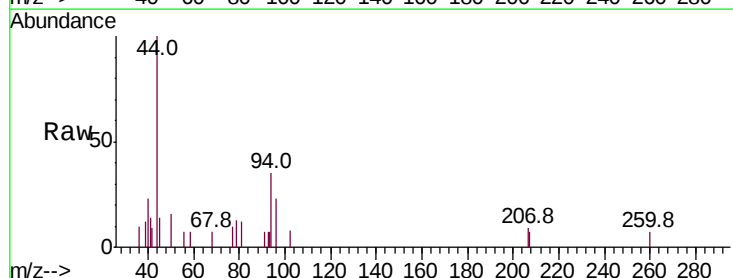
Acq: 10 Sep 2018 11:37

Tgt Ion: 94 Resp: 1613

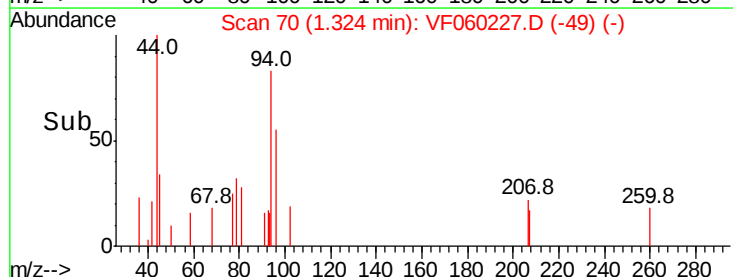
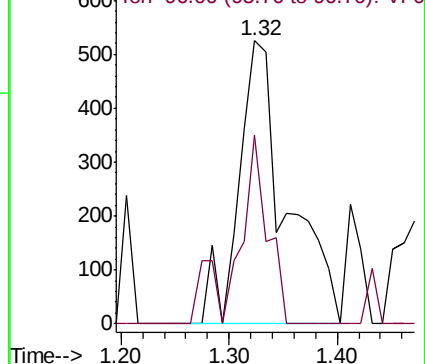
Ion Ratio Lower Upper

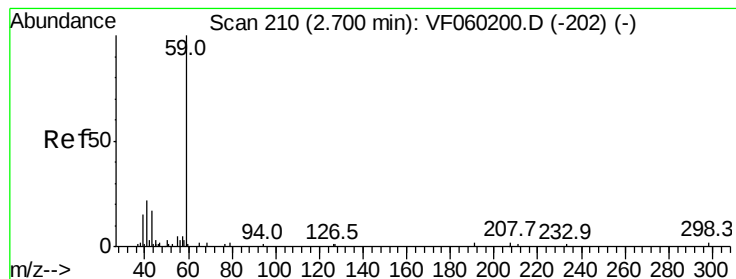
94 100

96 66.5 75.8 113.6#



Abundance Ion 94.00 (93.70 to 94.70): VF0



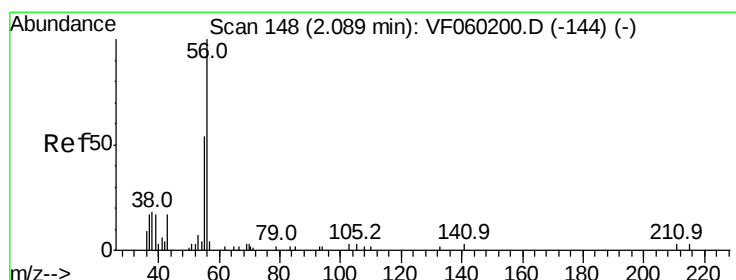
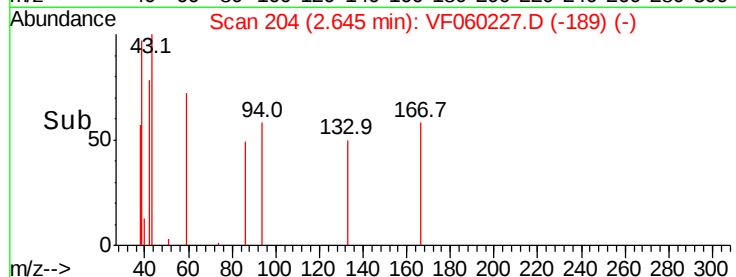
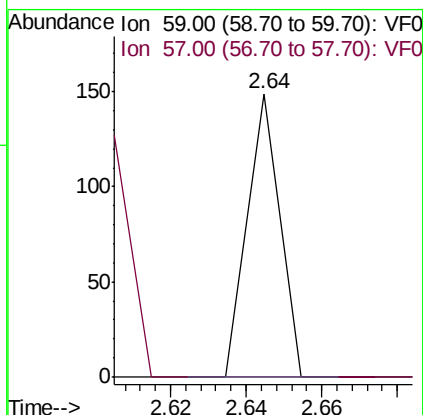
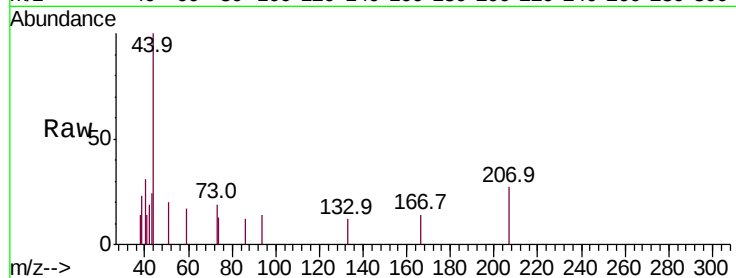


#11

Tert butyl alcohol
 Concen: 12.988 ug/l
 RT: 2.64 min Scan# 204
 Delta R.T. -0.06 min
 Lab File: VF060227.D
 Acq: 10 Sep 2018 11:37

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0910SBL01

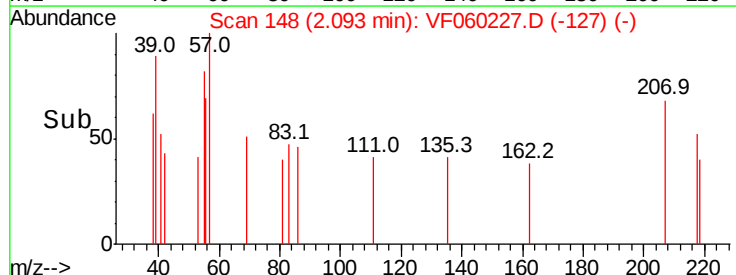
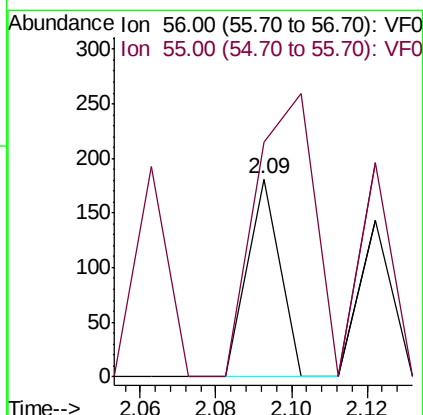
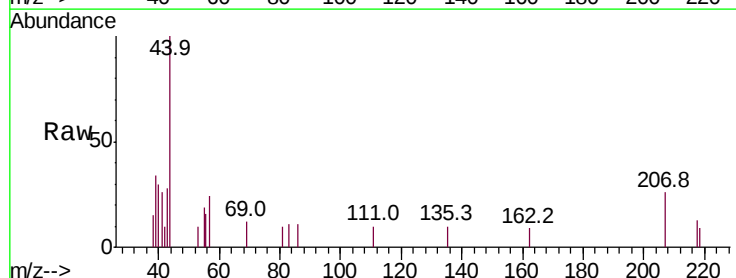
Tot Ion: 59 Resp: 88
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.2 10.8#

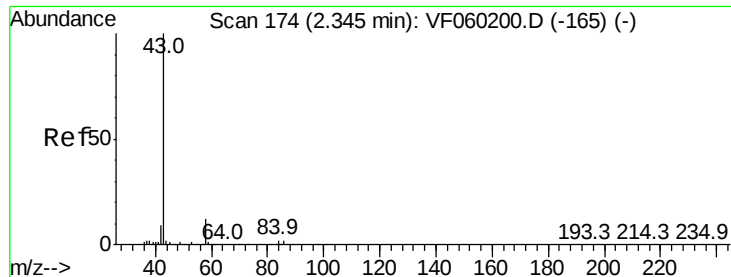


#13

Acrolein
 Concen: Below Cal
 RT: 2.09 min Scan# 148
 Delta R.T. 0.00 min
 Lab File: VF060227.D
 Acq: 10 Sep 2018 11:37

Tgt Ion: 56 Resp: 107
 Ion Ratio Lower Upper
 56 100
 55 218.8 45.1 67.7#





#16

Acetone

Concen: 16.745 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.02 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

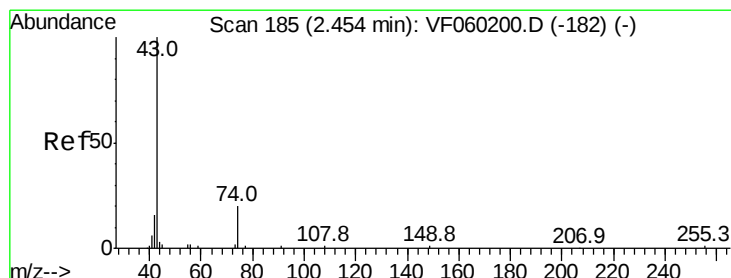
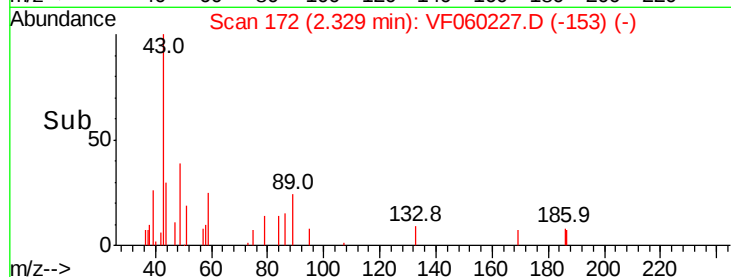
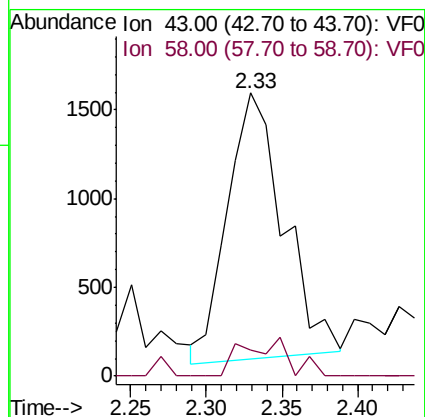
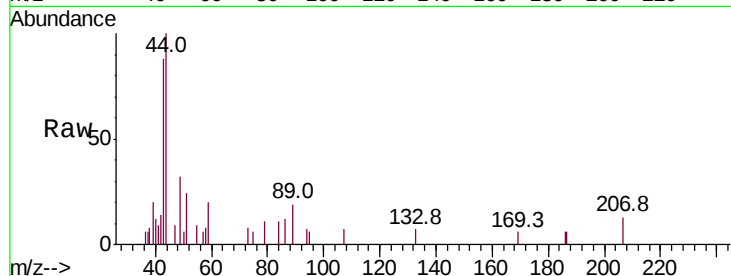
VF0910SBL01

Tot Ion: 43 Resp: 3856

Ion Ratio Lower Upper

43 100

58 9.1 9.7 14.5#



#18

Methyl Acetate

Concen: 3.133 ug/l

RT: 2.49 min Scan# 188

Delta R.T. 0.03 min

Lab File: VF060227.D

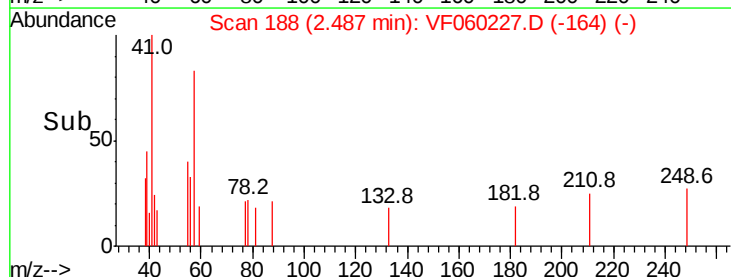
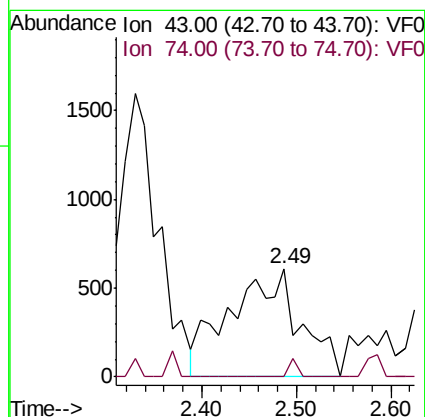
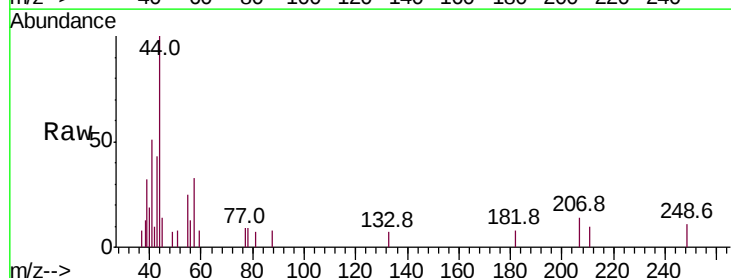
Acq: 10 Sep 2018 11:37

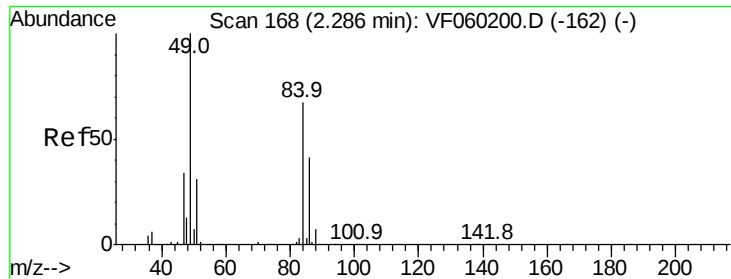
Tgt Ion: 43 Resp: 3143

Ion Ratio Lower Upper

43 100

74 0.0 11.9 17.9#





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.29 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBL01

Tot Ion: 84 Resp: 4527

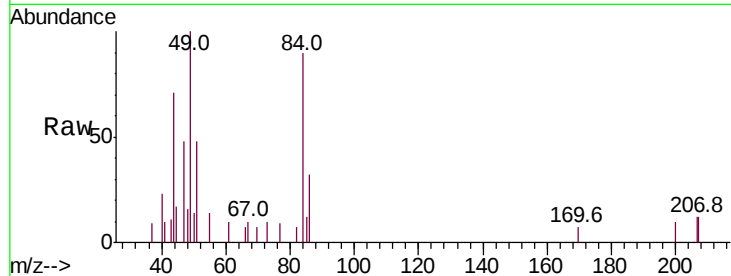
Ion Ratio Lower Upper

84 100

49 111.7 120.1 180.1#

51 53.6 37.0 55.6

86 36.1 49.0 73.6#

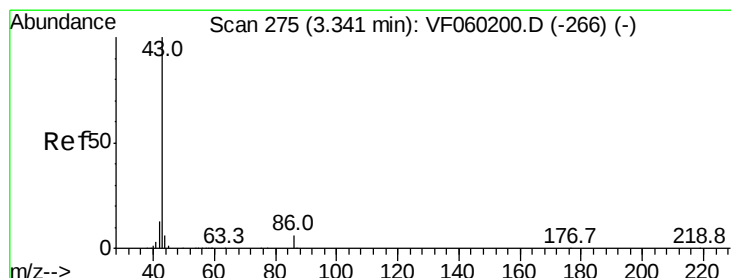
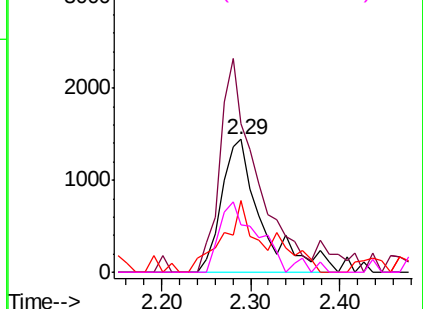
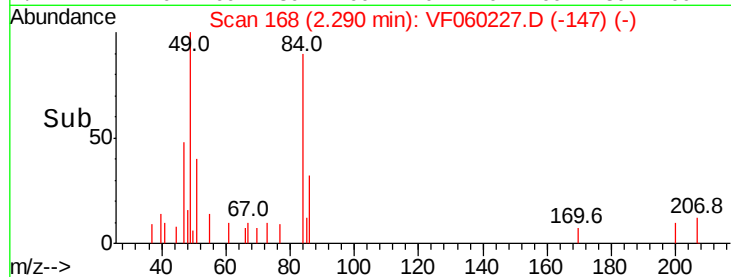


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#23

Vinyl Acetate

Concen: 22.886 ug/l

RT: 3.33 min Scan# 274

Delta R.T. -0.01 min

Lab File: VF060227.D

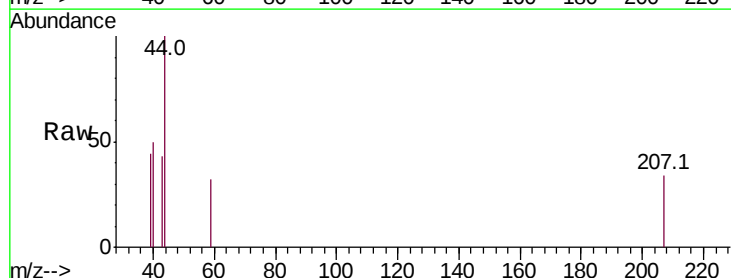
Acq: 10 Sep 2018 11:37

Tgt Ion: 43 Resp: 189

Ion Ratio Lower Upper

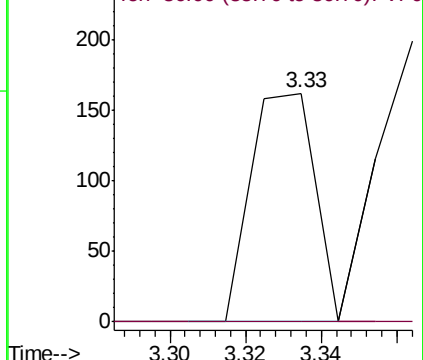
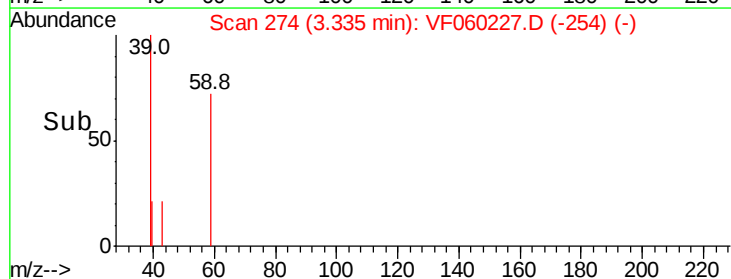
43 100

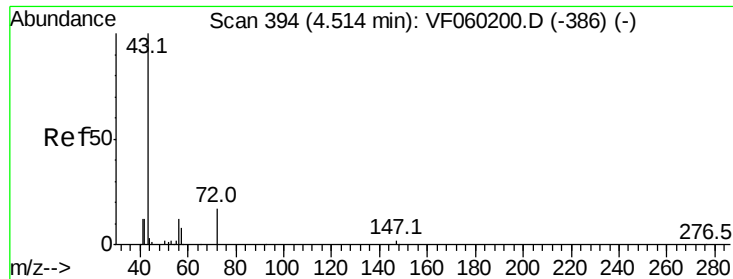
86 0.0 4.8 7.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 3.062 ug/l

RT: 4.52 min Scan# 394

Delta R.T. 0.00 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

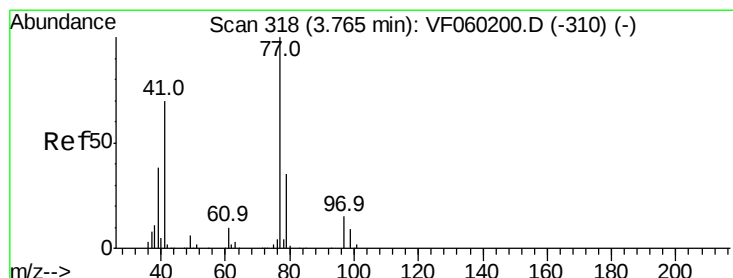
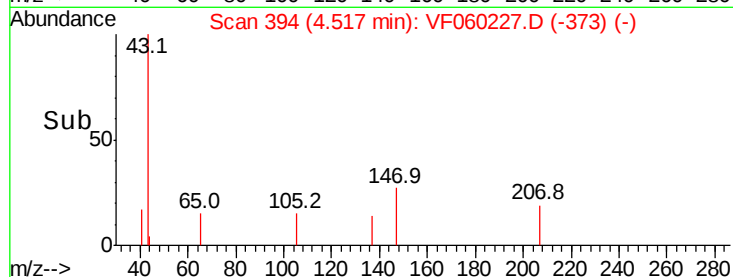
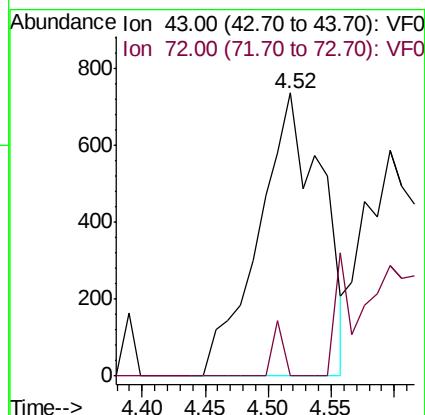
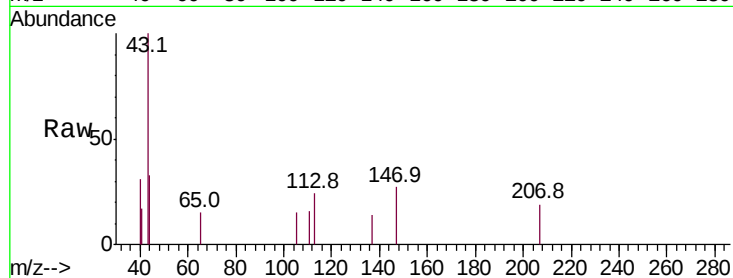
VF0910SBL01

Tot Ion: 43 Resp: 2555

Ion Ratio Lower Upper

43 100

72 0.0 14.8 22.2#



#26

2,2-Dichloropropane

Concen: 2.049 ug/l

RT: 3.76 min Scan# 317

Delta R.T. -0.01 min

Lab File: VF060227.D

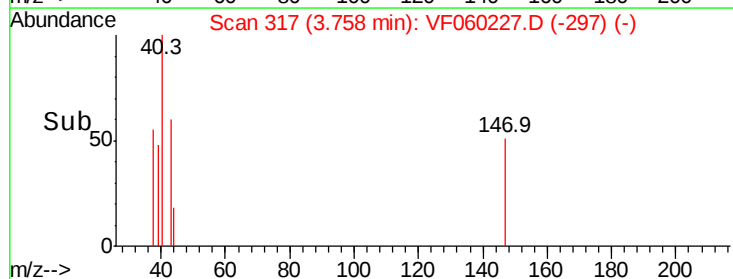
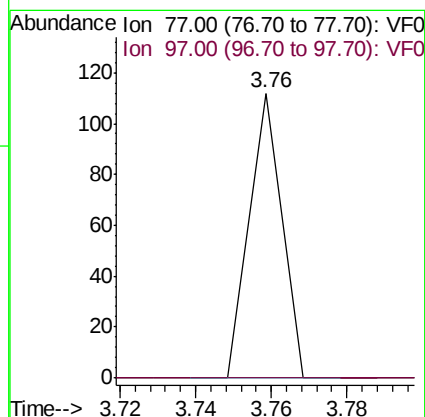
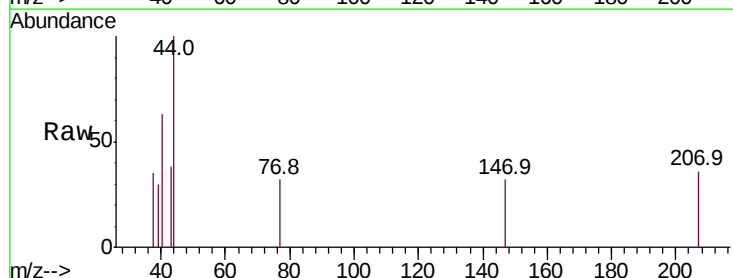
Acq: 10 Sep 2018 11:37

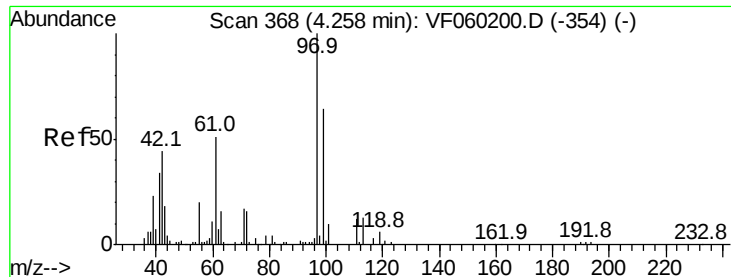
Tgt Ion: 77 Resp: 66

Ion Ratio Lower Upper

77 100

97 0.0 7.5 22.5#

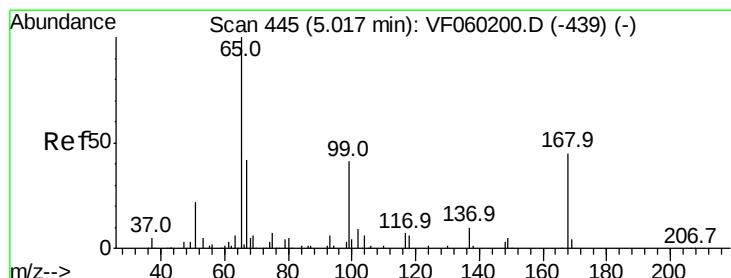
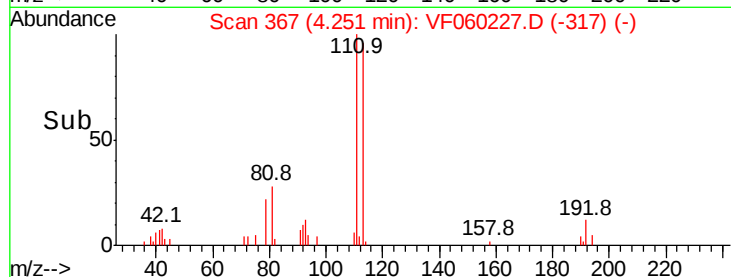
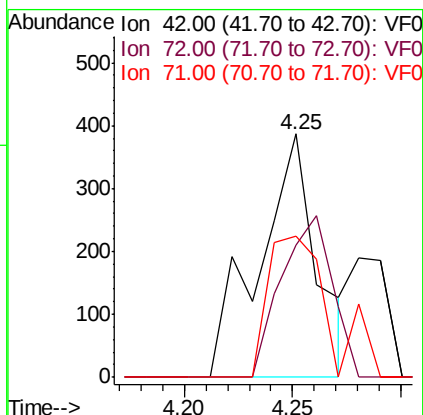
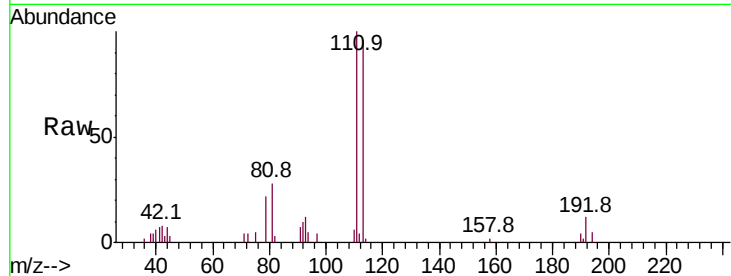




#29
Tetrahydrofuran
Concen: 2.618 ug/l
RT: 4.25 min Scan# 367
Delta R.T. -0.01 min
Lab File: VF060227.D
Acq: 10 Sep 2018 11:37

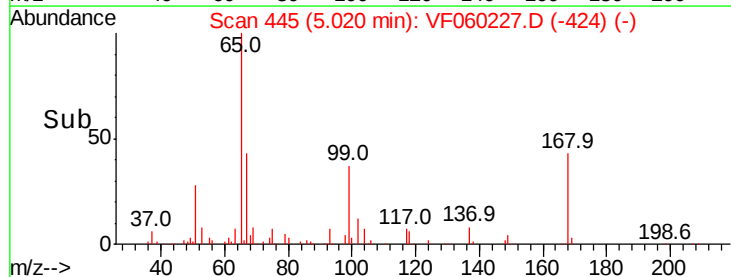
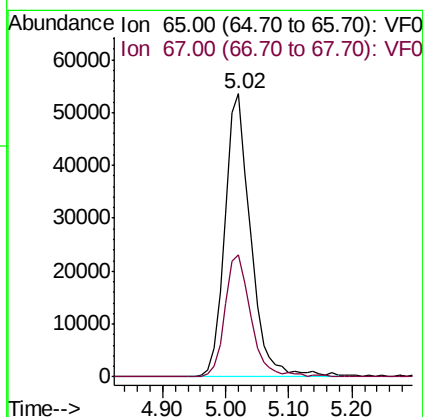
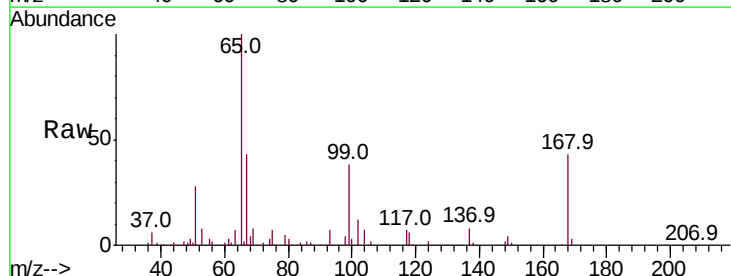
Instrument :
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VF0910SBL01

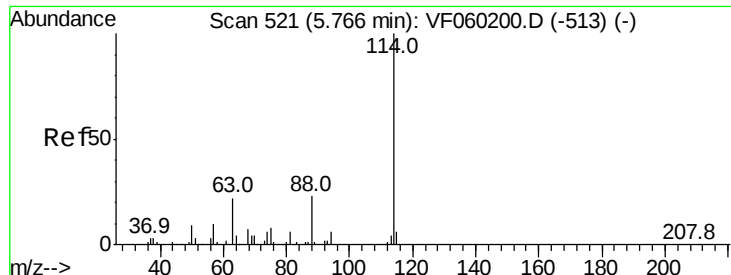
Tot Ion: 42 Resp: 722
Ion Ratio Lower Upper
42 100
72 58.3 27.4 41.0#
71 60.8 28.5 42.7#



#33
1,2-Dichloroethane-d4
Concen: 51.082 ug/l
RT: 5.02 min Scan# 445
Delta R.T. 0.00 min
Lab File: VF060227.D
Acq: 10 Sep 2018 11:37

Tgt Ion: 65 Resp: 151642
Ion Ratio Lower Upper
65 100
67 43.2 0.0 87.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 521

Delta R.T. 0.00 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBL01

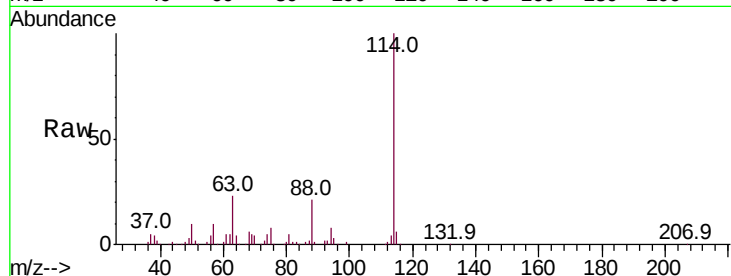
Tot Ion:114 Resp: 240852

Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.6

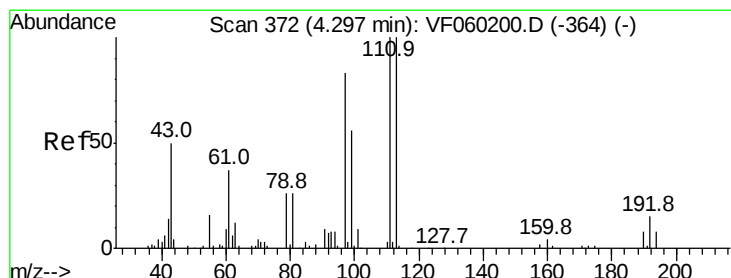
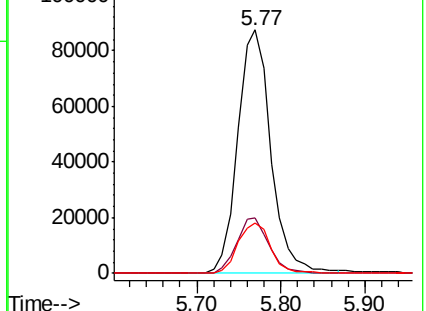
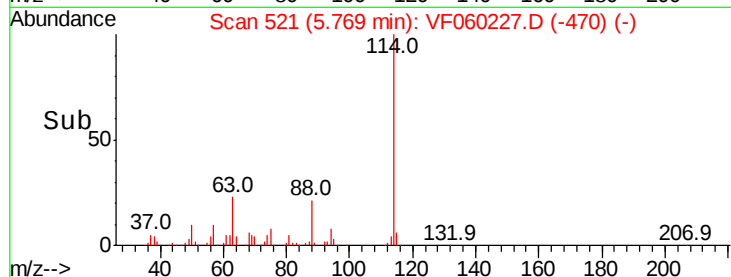
88 20.8 0.0 46.4



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: 55.780 ug/l

RT: 4.29 min Scan# 371

Delta R.T. -0.01 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

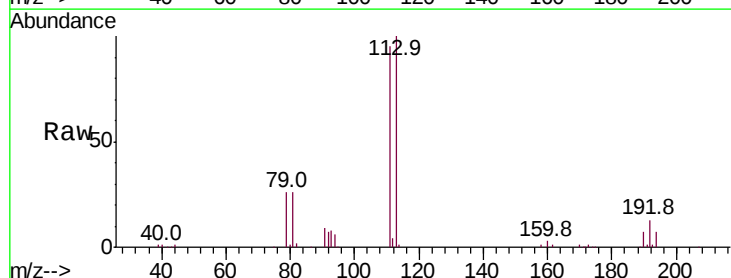
Tgt Ion:113 Resp: 131623

Ion Ratio Lower Upper

113 100

111 94.8 80.2 120.2

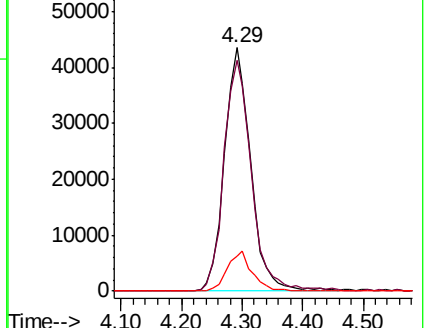
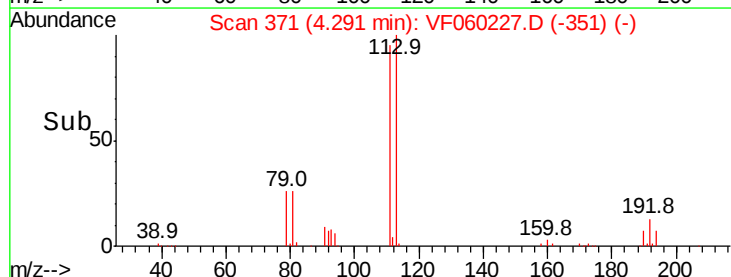
192 14.2 11.8 17.8

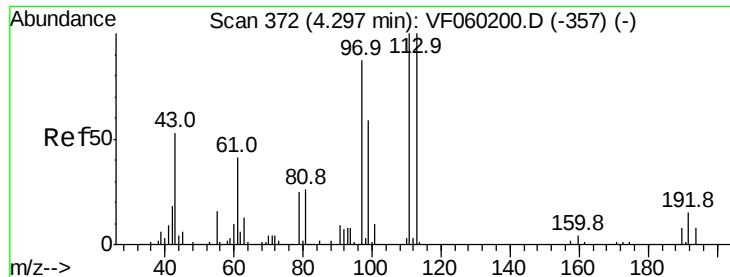


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

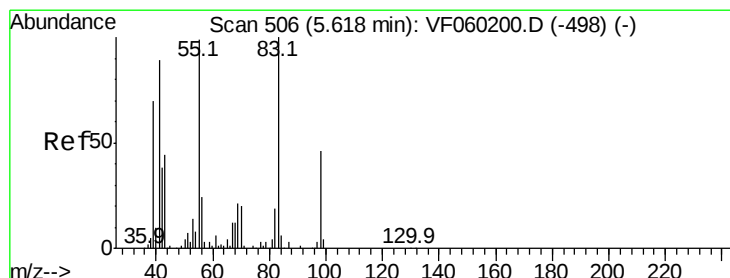
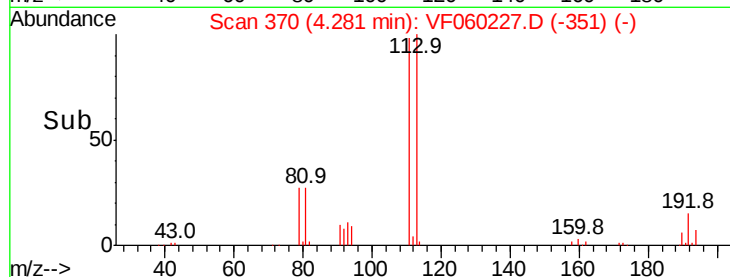
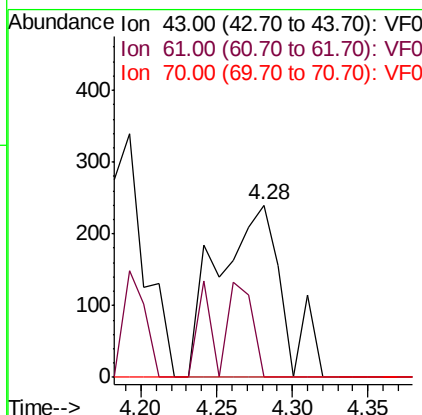
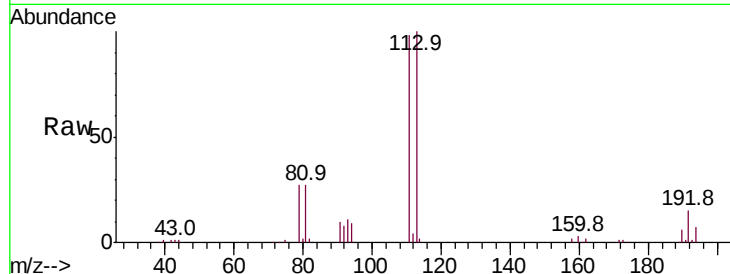




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 370
Delta R.T. -0.02 min
Lab File: VF060227.D
Acq: 10 Sep 2018 11:37

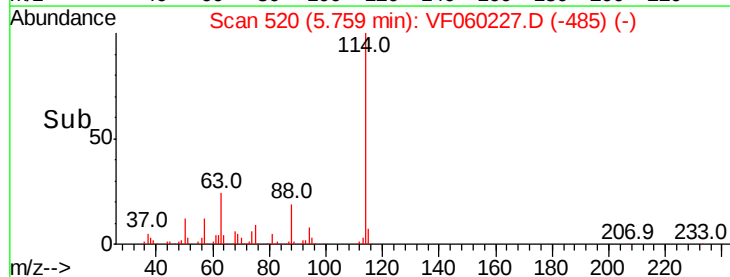
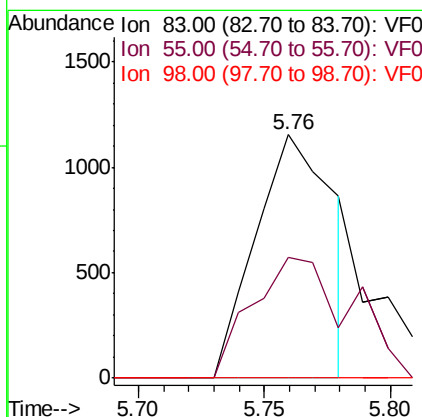
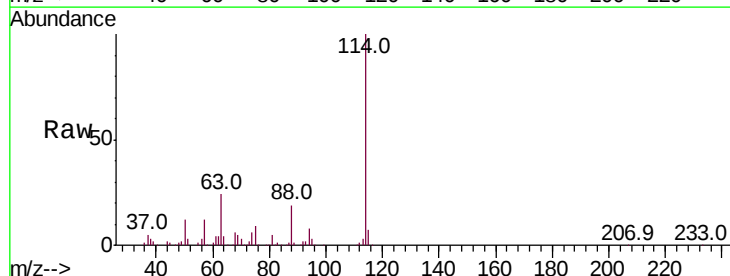
Instrument :
MSVOA_F
ClientSampleId :
VF0910SBL01

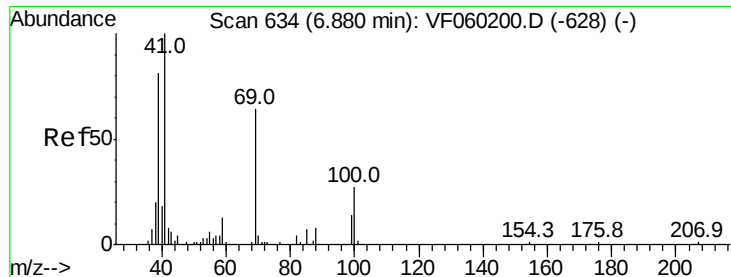
Tot Ion: 43 Resp: 713
Ion Ratio Lower Upper
43 100
61 0.0 61.6 92.4#
70 0.0 6.9 10.3#



#39
Methylcyclohexane
Concen: 1.049 ug/l
RT: 5.76 min Scan# 520
Delta R.T. 0.14 min
Lab File: VF060227.D
Acq: 10 Sep 2018 11:37

Tgt Ion: 83 Resp: 2490
Ion Ratio Lower Upper
83 100
55 49.6 79.0 118.4#
98 0.0 36.7 55.1#





#49

1,4-Dioxane

Concen: 3.429 ug/l

RT: 7.21 min Scan# 667

Delta R.T. 0.33 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBL01

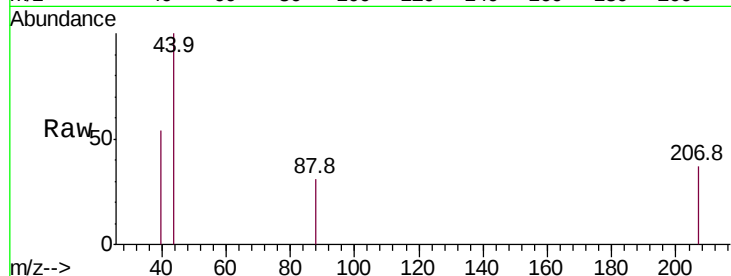
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 0.0 68.1 102.1#

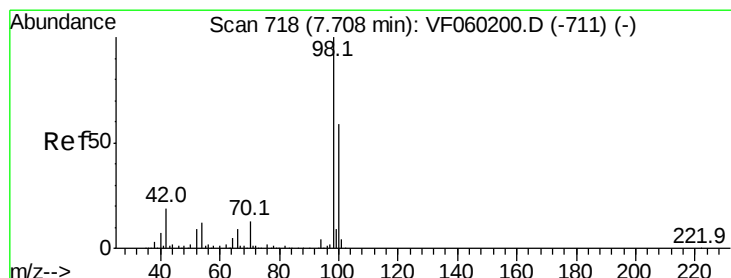
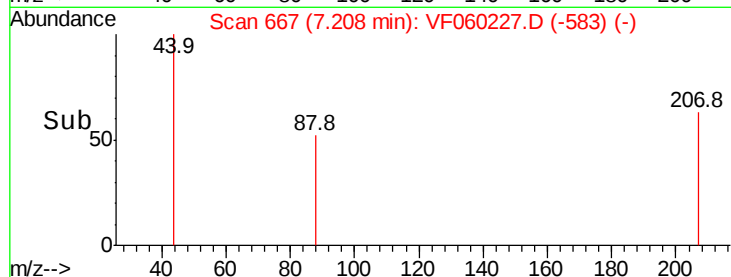
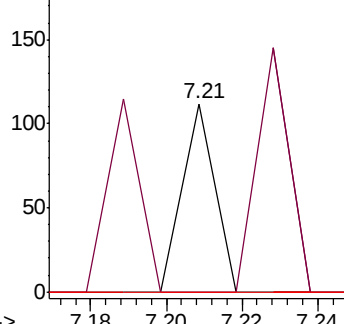
58 0.0 38.1 57.1#



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: 52.256 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF060227.D

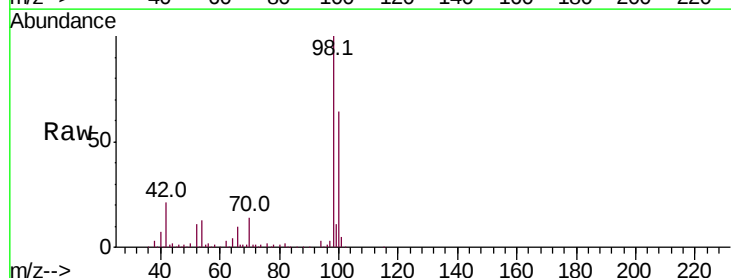
Acq: 10 Sep 2018 11:37

Tgt Ion: 98 Resp: 307703

Ion Ratio Lower Upper

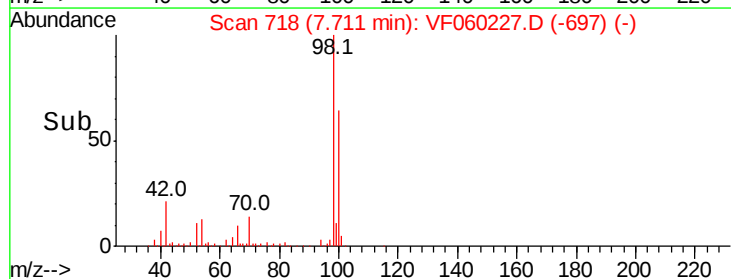
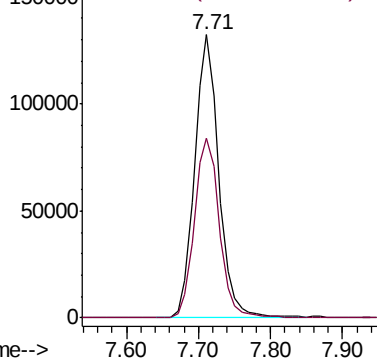
98 100

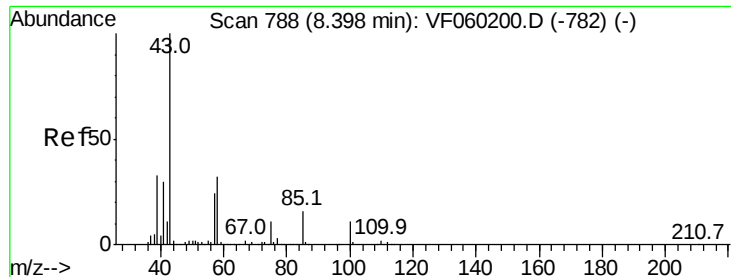
100 63.7 47.4 71.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 3.815 ug/l

RT: 8.40 min Scan# 788

Delta R.T. 0.00 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

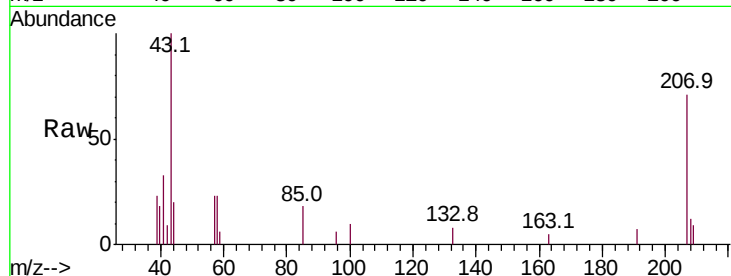
VF0910SBL01

Tot Ion: 43 Resp: 5589

Ion Ratio Lower Upper

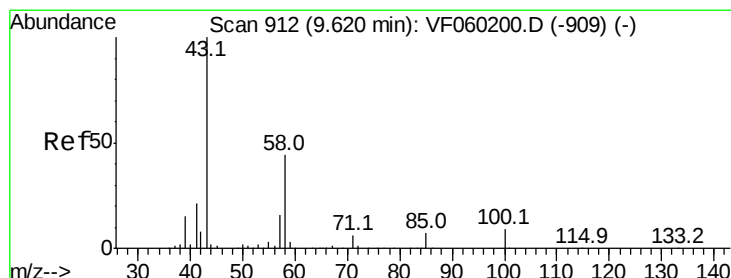
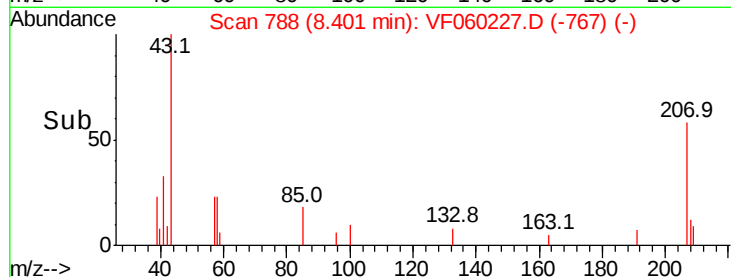
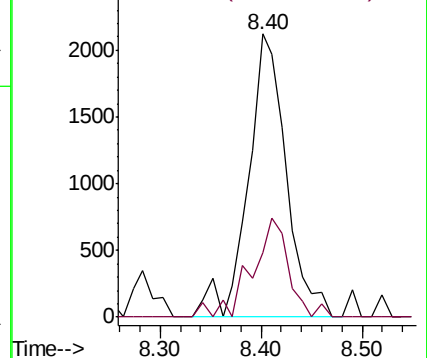
43 100

58 22.7 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 7.694 ug/l

RT: 9.63 min Scan# 913

Delta R.T. 0.01 min

Lab File: VF060227.D

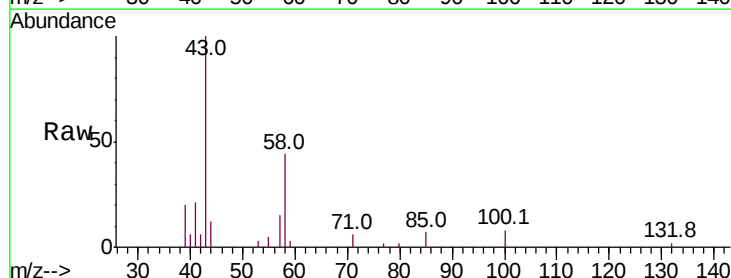
Acq: 10 Sep 2018 11:37

Tgt Ion: 43 Resp: 9677

Ion Ratio Lower Upper

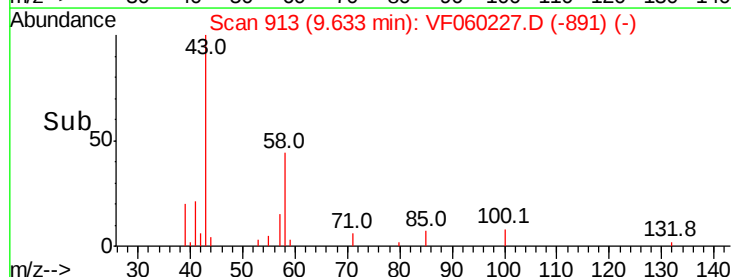
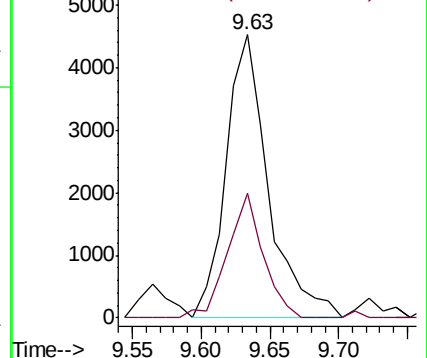
43 100

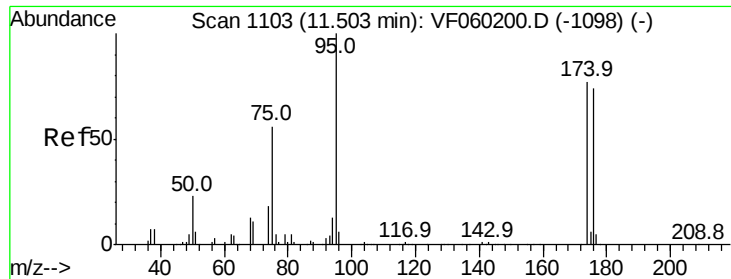
58 44.1 20.8 62.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 54.526 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.00 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBL01

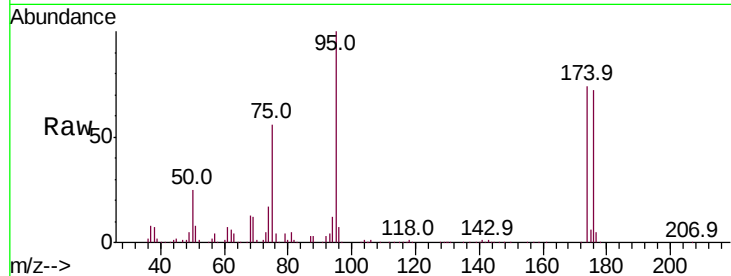
Tot Ion: 95 Resp: 181154

Ion Ratio Lower Upper

95 100

174 73.7 0.0 153.2

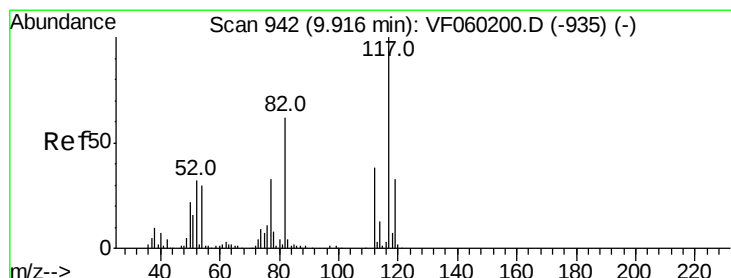
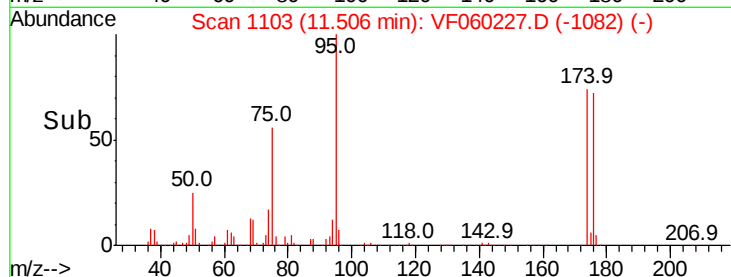
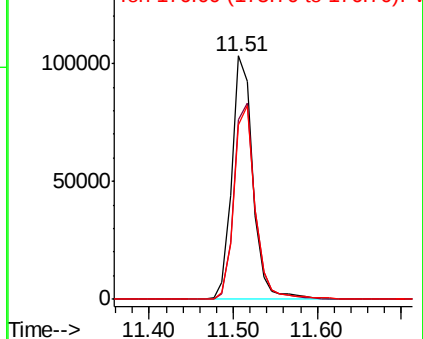
176 71.5 0.0 147.2



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: 50.000 ug/l

RT: 9.92 min Scan# 942

Delta R.T. 0.00 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

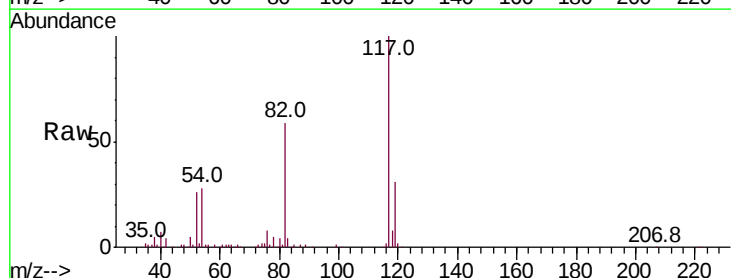
Tgt Ion: 117 Resp: 265576

Ion Ratio Lower Upper

117 100

82 58.8 49.3 73.9

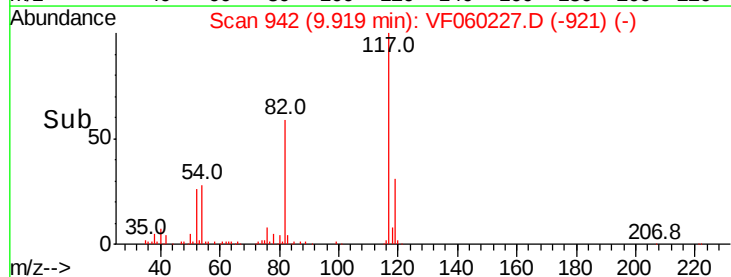
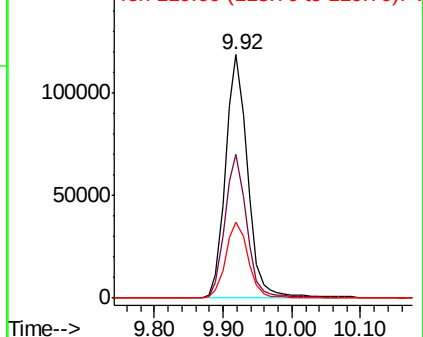
119 31.3 26.5 39.7

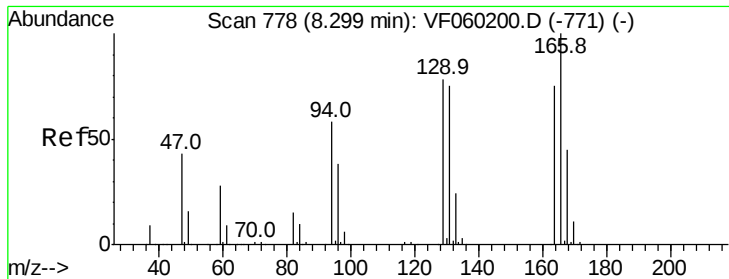


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: Below Cal

RT: 8.31 min Scan# 779

Delta R.T. 0.01 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBL01

Tot Ion:164 Resp: 65

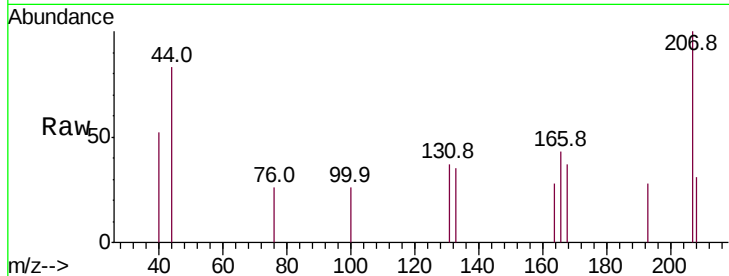
Ion Ratio Lower Upper

164 100

166 152.7 107.0 160.4

129 0.0 83.0 124.6#

131 132.7 79.8 119.8#



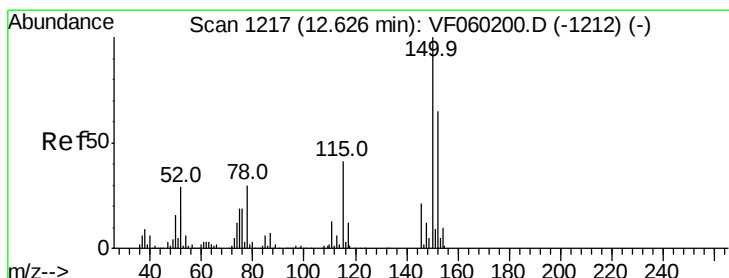
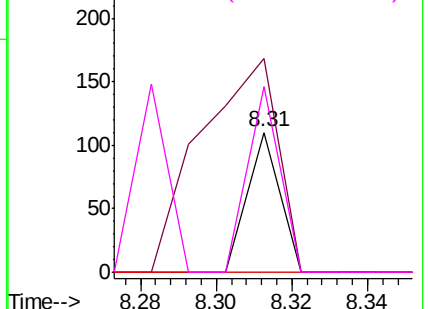
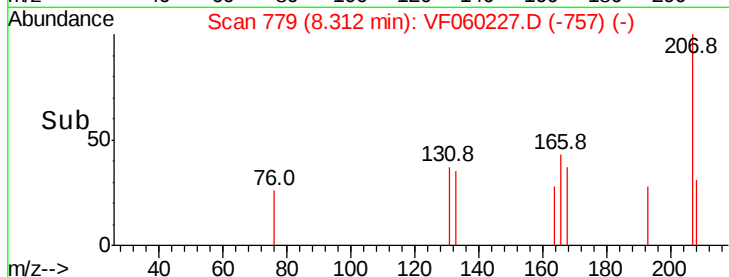
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

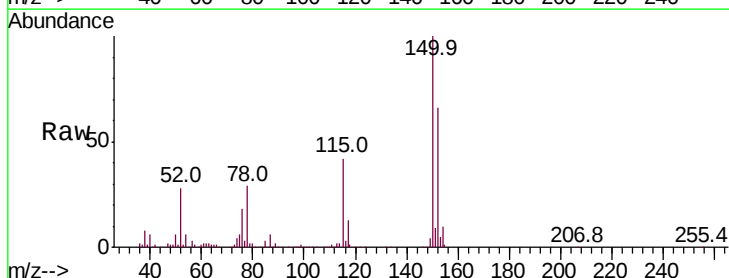
Tgt Ion:152 Resp: 172086

Ion Ratio Lower Upper

152 100

115 64.0 31.5 94.5

150 152.5 0.0 310.4

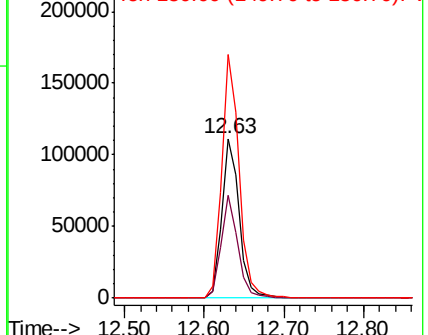
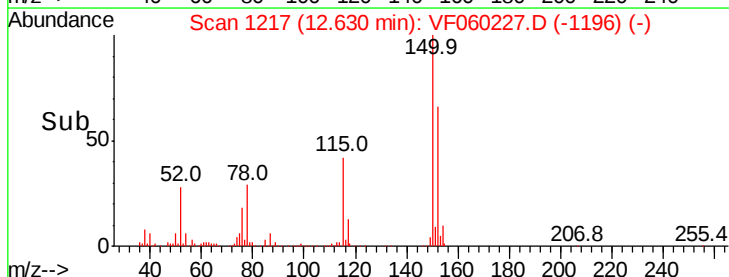


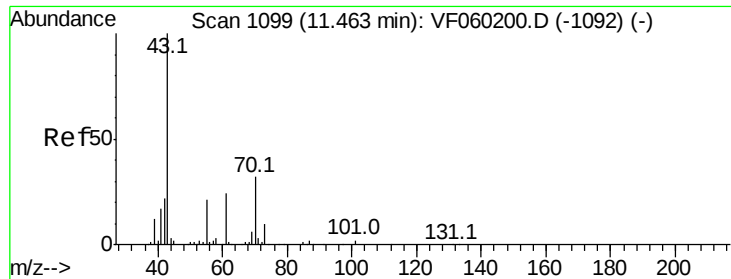
Abundance

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: 5.620 ug/l

RT: 11.46 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

Instrument :

MSVOA_F

ClientSampleId :

VF0910SBL01

Tot Ion: 43 Resp: 2156

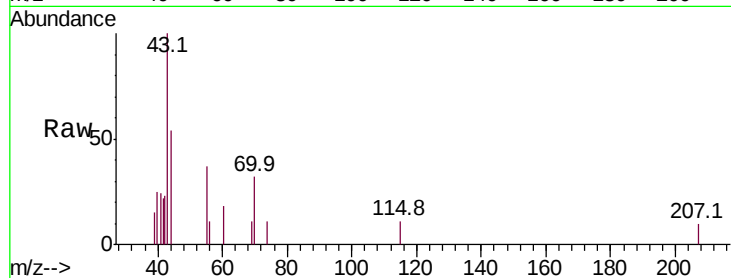
Ion Ratio Lower Upper

43 100

70 31.6 25.8 38.6

55 37.4 16.8 25.2#

61 0.0 18.9 28.3#

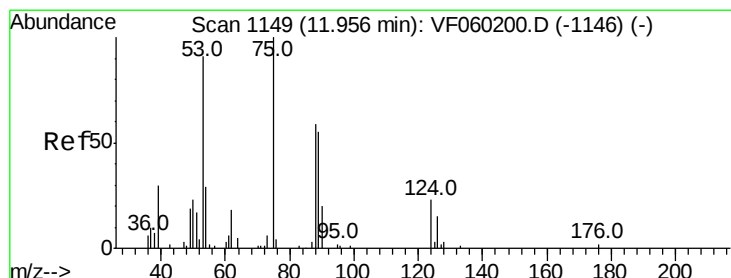
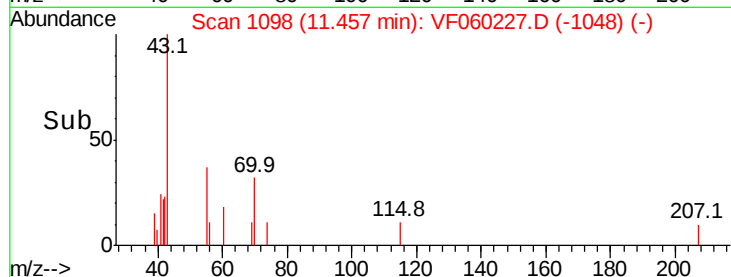
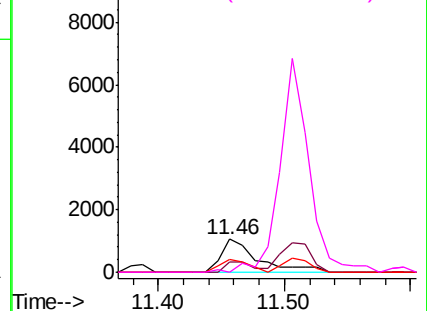


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 2.777 ug/l

RT: 11.94 min Scan# 1147

Delta R.T. -0.02 min

Lab File: VF060227.D

Acq: 10 Sep 2018 11:37

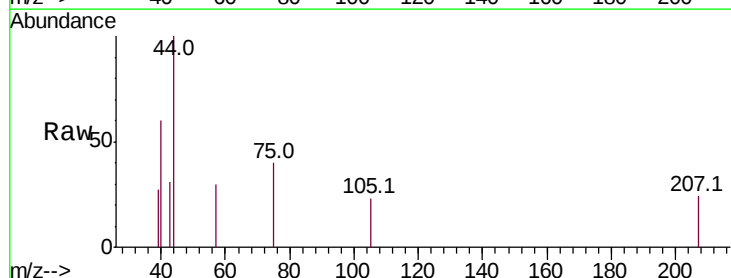
Tgt Ion: 75 Resp: 109

Ion Ratio Lower Upper

75 100

53 0.0 76.5 114.7#

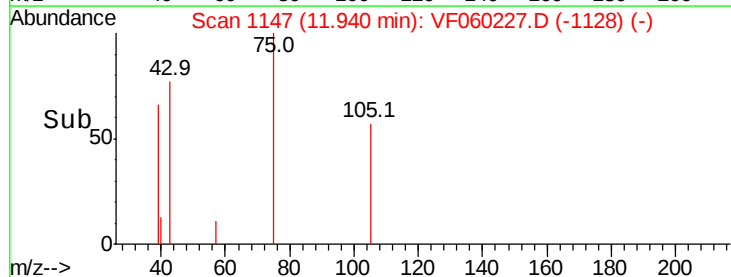
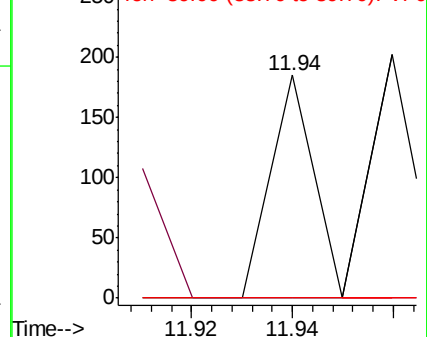
89 0.0 46.5 69.7#

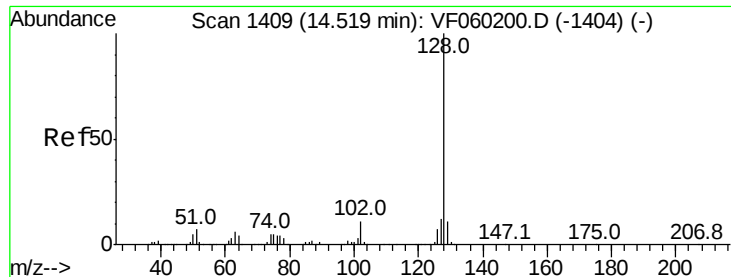


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

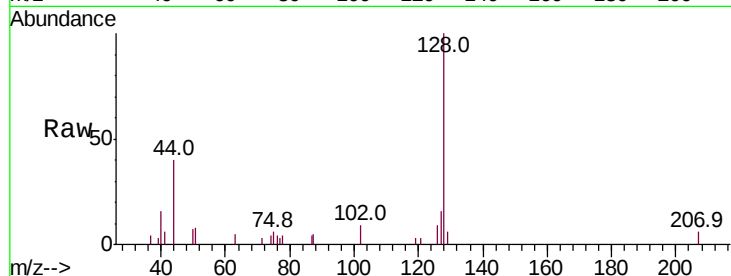




#95
Naphthalene
Concen: 3.233 ug/l
RT: 14.52 min Scan# 1409
Delta R.T. 0.00 min
Lab File: VF060227.D
Acq: 10 Sep 2018 11:37

Instrument :
MSVOA_F
ClientSampleId :
VF0910SBL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.9	9.9	14.9#
129	6.1	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

