

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF102618\
 Data File : VF060520.D
 Acq On : 26 Oct 2018 17:00
 Operator : VA/AP
 Sample : J5515-04
 Misc : 6.6/5mL/MSVOA F/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 AOC1-03B

Quant Time: Oct 27 01:50:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F102518S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 26 02:17:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	123954	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	193858	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	179025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	102098	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	91053	36.96	ug/l	0.00
Spiked Amount			Recovery	=	73.92%	
35) Dibromofluoromethane	4.30	113	97120	41.80	ug/l	0.00
Spiked Amount			Recovery	=	83.60%	
50) Toluene-d8	7.71	98	228651	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	11.51	95	106636	41.06	ug/l	0.00
Spiked Amount			Recovery	=	82.12%	

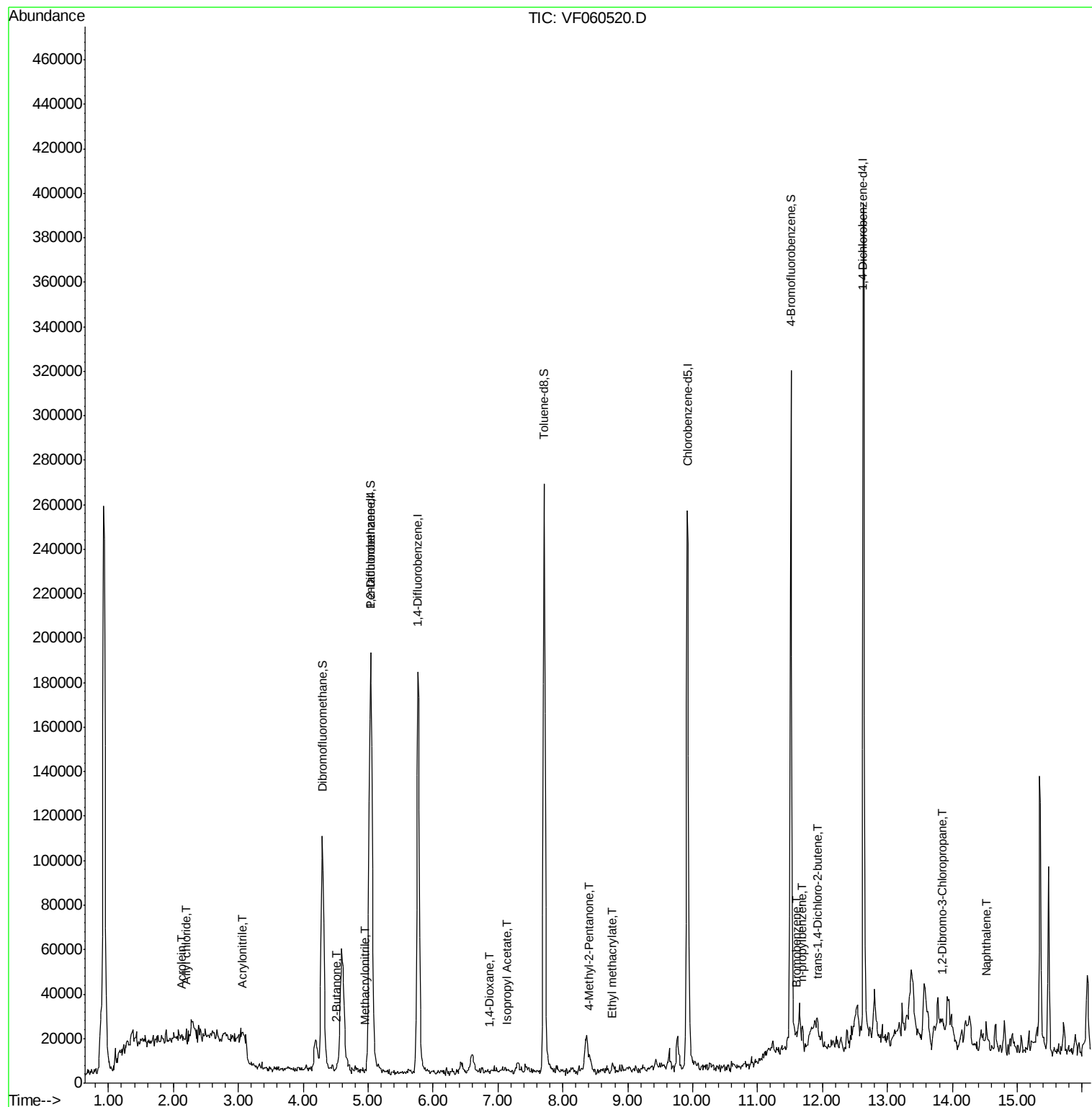
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	638	Below Cal	#	48
11) Tert butyl alcohol	2.66	59	173	Below Cal	#	1
13) Acrolein	2.12	56	1287	11.745	ug/l	100
14) Allyl chloride	2.20	41	3145	1.113	ug/l #	53
15) Acrylonitrile	3.06	53	1078	5.436	ug/l #	47
16) Acetone	2.41	43	576	Below Cal		96
20) Methylene Chloride	2.28	84	4890	Below Cal		93
25) 2-Butanone	4.50	43	987	2.256	ug/l	95
29) Tetrahydrofuran	4.27	42	904	Below Cal	#	85
37) Ethyl Acetate	4.27	43	608	Below Cal	#	1
41) Methacrylonitrile	4.96	41	1066	2.216	ug/l #	56
43) Isopropyl Acetate	7.14	43	1760	1.780	ug/l	96
49) 1,4-Dioxane	6.86	88	180	28.028	ug/l #	7
51) 4-Methyl-2-Pentanone	8.41	43	6251	8.093	ug/l #	79
56) Ethyl methacrylate	8.76	69	1819	1.736	ug/l #	84
59) 2-Hexanone	9.64	43	8301	Below Cal		65
77) Bromobenzene	11.60	156	3355	1.984	ug/l #	1
78) n-propylbenzene	11.69	91	10677	1.126	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.94	75	460	1.072	ug/l #	71
92) 1,2-Dibromo-3-Chloropropan	13.86	75	391	1.312	ug/l	67
95) Naphthalene	14.53	128	5461	1.290	ug/l	97

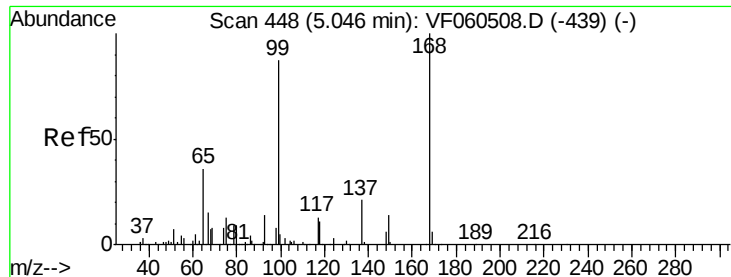
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 27 01:50:39 2018
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Quant Title : SW846 8260
QLast Update : Fri Oct 26 02:17:41 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 448

Delta R.T. 0.00 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

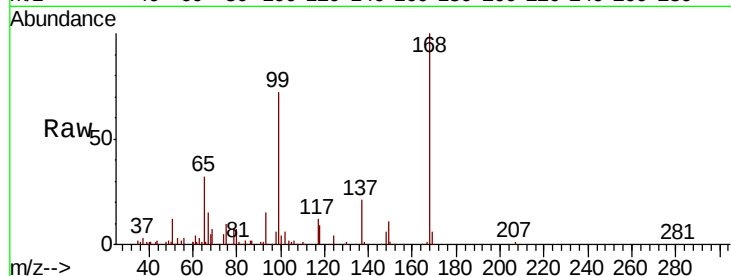
AOC1-03B

Tot Ion:168 Resp: 123954

Ion Ratio Lower Upper

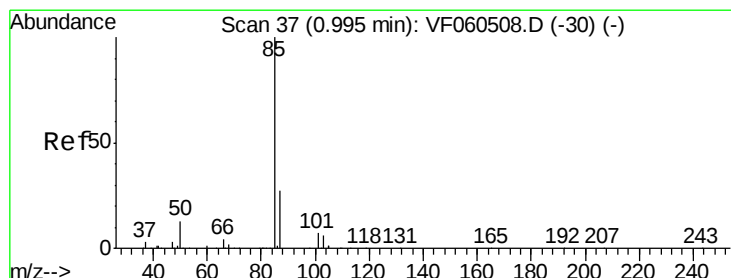
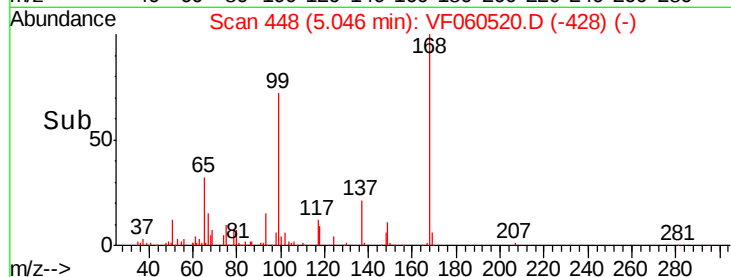
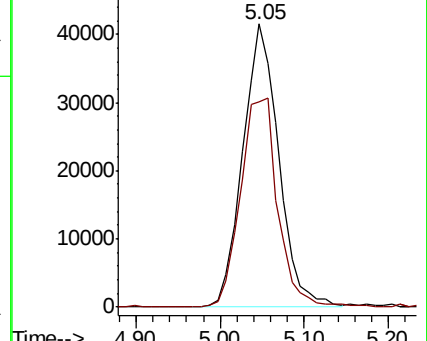
168 100

99 72.4 69.9 104.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060520.D

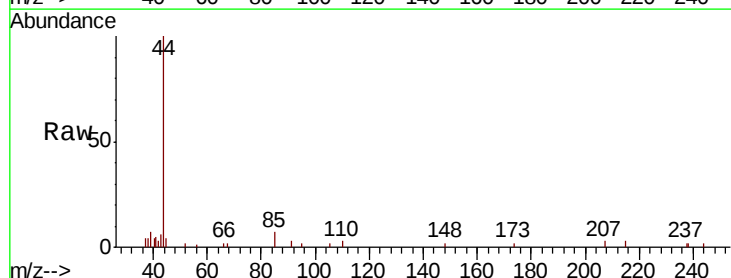
Acq: 26 Oct 2018 17:00

Tgt Ion: 85 Resp: 638

Ion Ratio Lower Upper

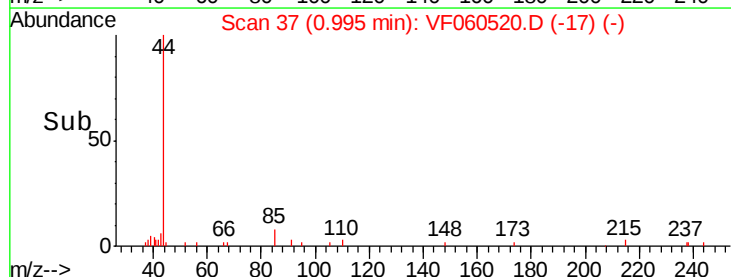
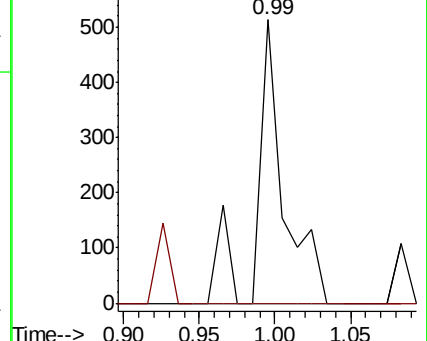
85 100

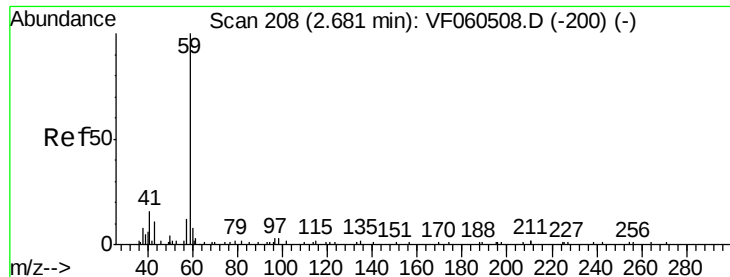
87 0.0 13.5 40.4#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



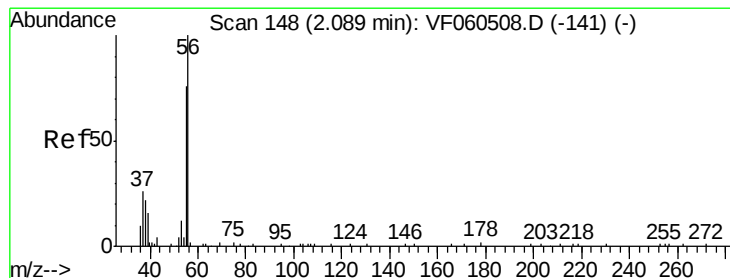
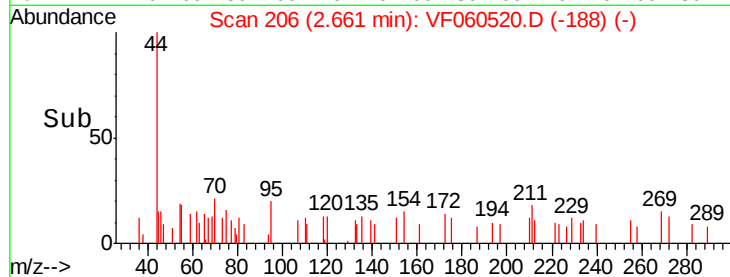
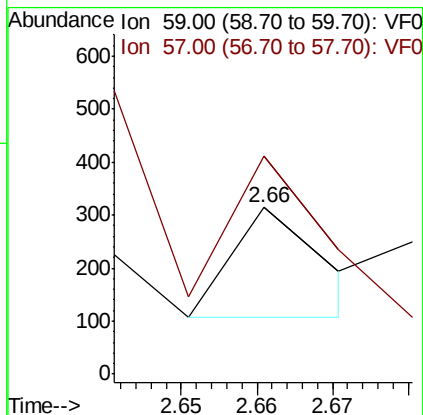
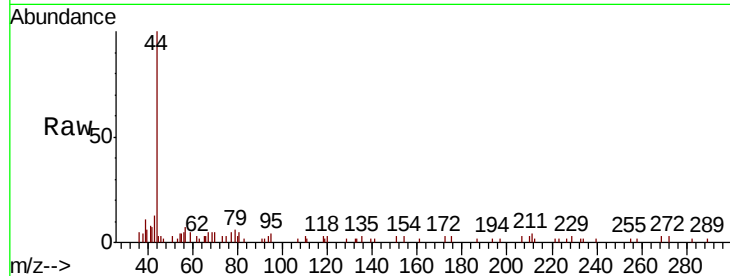


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.66 min Scan# 206
 Delta R.T. -0.02 min
 Lab File: VF060520.D
 Acq: 26 Oct 2018 17:00

Instrument :
 MSVOA_F
 ClientSampled :
 AOC1-03B

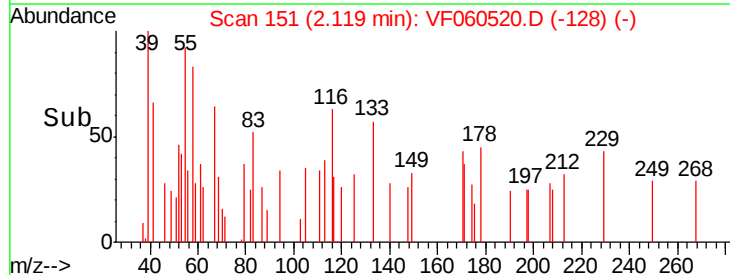
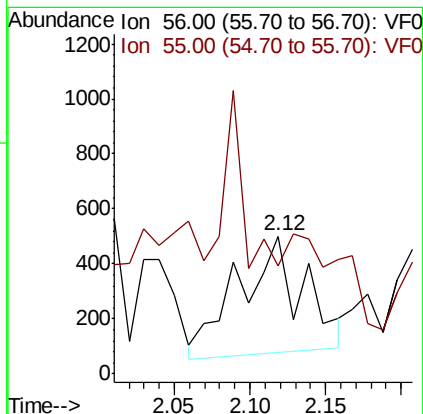
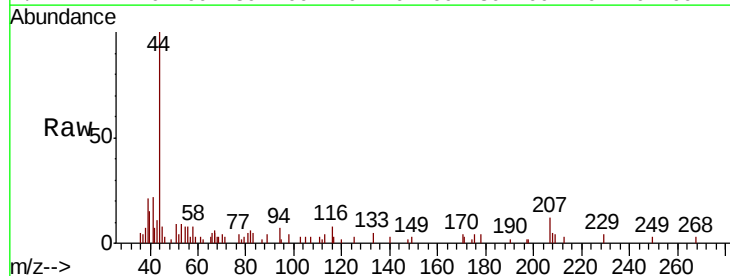
Tot Ion: 59 Resp: 173
 Ion Ratio Lower Upper
 59 100
 57 130.9 15.8 23.8#

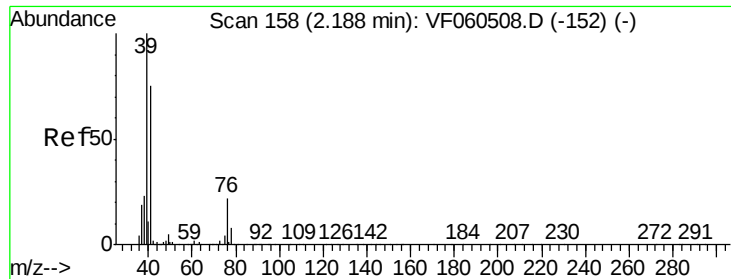


#13

Acrolein
 Concen: 11.745 ug/l
 RT: 2.12 min Scan# 151
 Delta R.T. 0.03 min
 Lab File: VF060520.D
 Acq: 26 Oct 2018 17:00

Tgt Ion: 56 Resp: 1287
 Ion Ratio Lower Upper
 56 100
 55 78.6 63.0 94.4

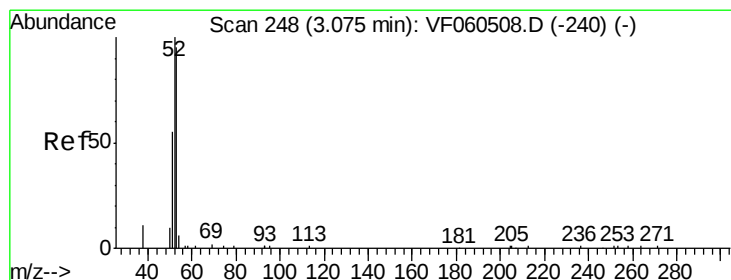
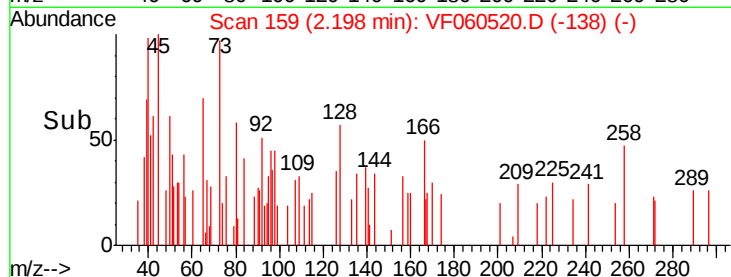
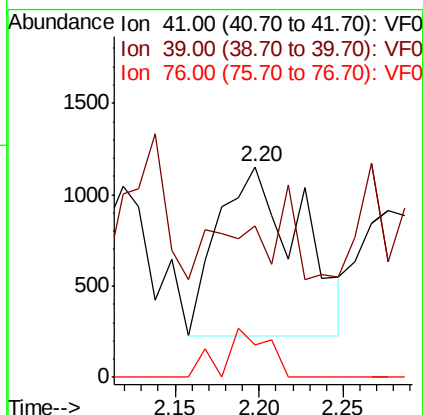
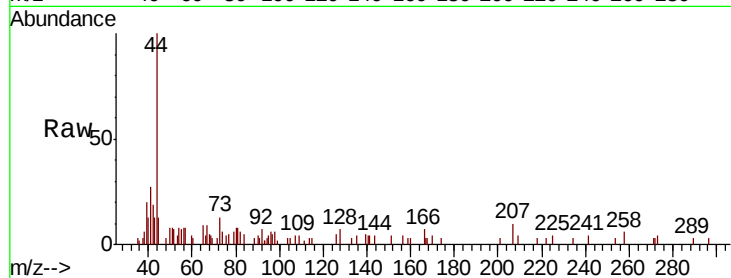




#14
Allvl chloride
Concen: 1.113 ug/l
RT: 2.20 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

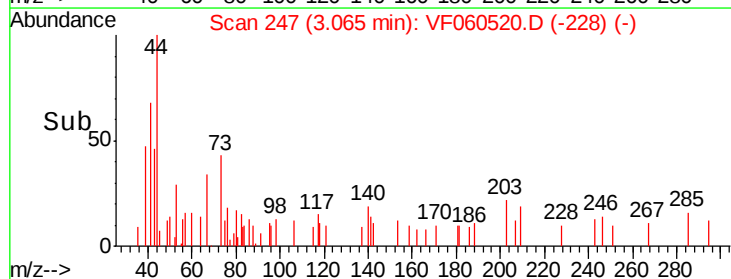
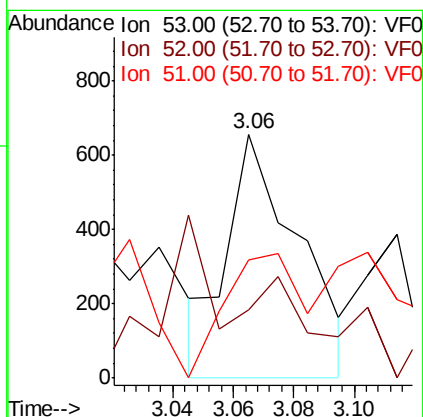
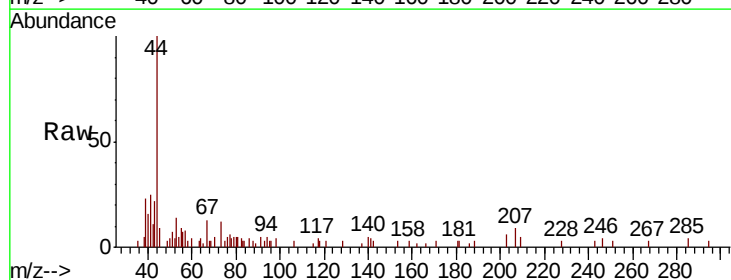
Instrument :
MSVOA_F
ClientSampleId :
AOC1-03B

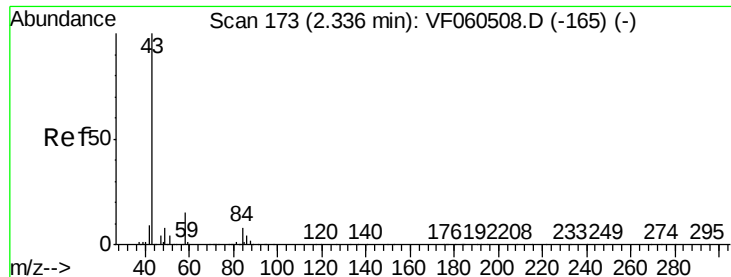
Tot Ion: 41 Resp: 3145
Ion Ratio Lower Upper
41 100
39 72.0 106.0 159.0#
76 15.6 24.1 36.1#



#15
Acrylonitrile
Concen: 5.436 ug/l
RT: 3.06 min Scan# 247
Delta R.T. -0.01 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

Tgt Ion: 53 Resp: 1078
Ion Ratio Lower Upper
53 100
52 27.9 84.0 126.0#
51 48.5 48.6 73.0#

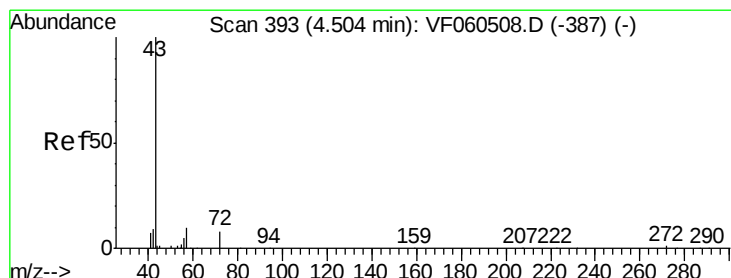
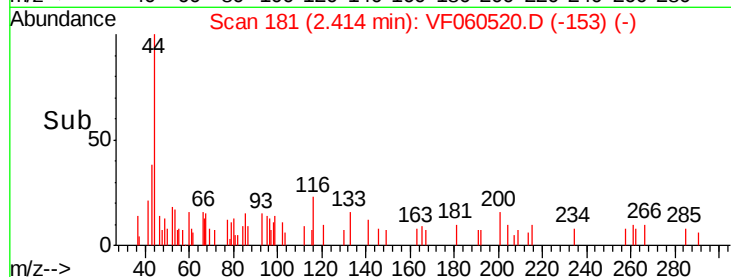
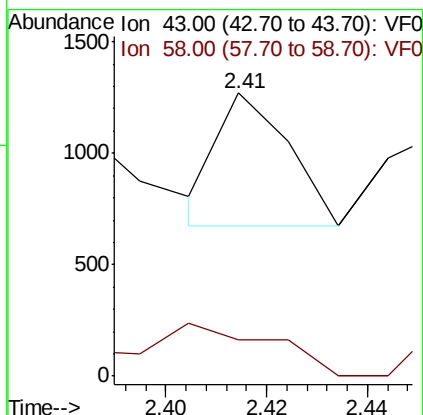
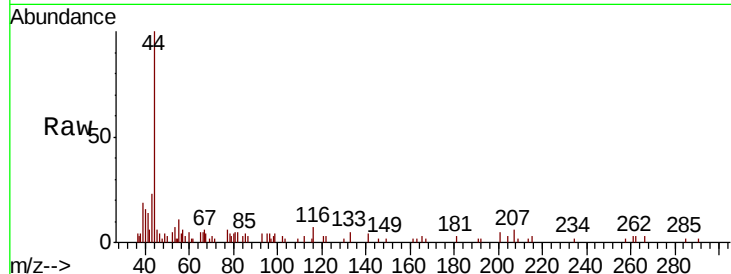




#16
Acetone
Concen: Below Cal
RT: 2.41 min Scan# 181
Delta R.T. 0.08 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

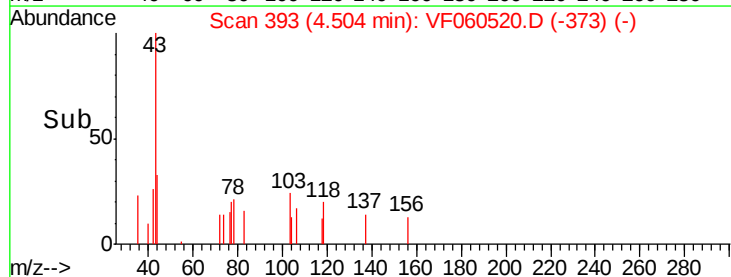
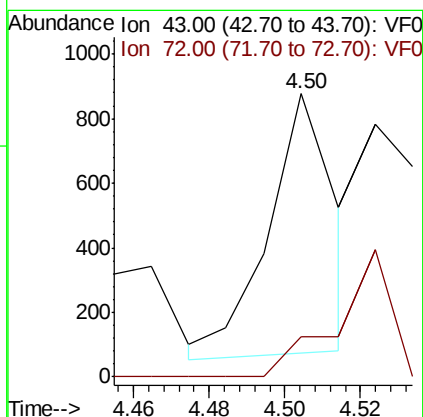
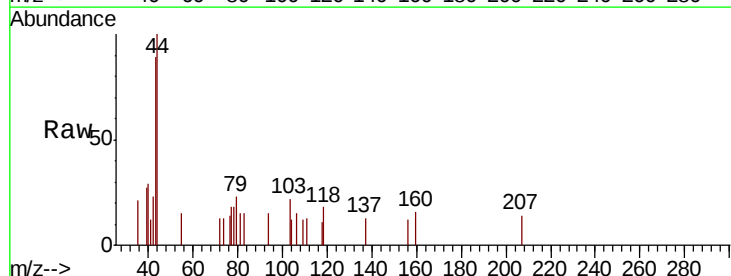
Instrument :
MSVOA_F
ClientSampleId :
AOC1-03B

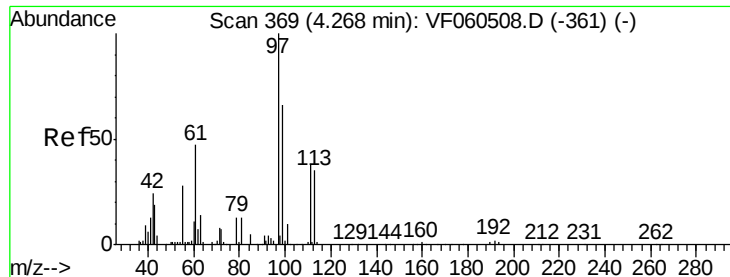
Tot Ion: 43 Resp: 576
Ion Ratio Lower Upper
43 100
58 13.1 11.7 17.5



#25
2-Butanone
Concen: 2.256 ug/l
RT: 4.50 min Scan# 393
Delta R.T. 0.00 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

Tgt Ion: 43 Resp: 987
Ion Ratio Lower Upper
43 100
72 14.4 13.0 19.6





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.27 min Scan# 369

Delta R.T. 0.00 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

AOC1-03B

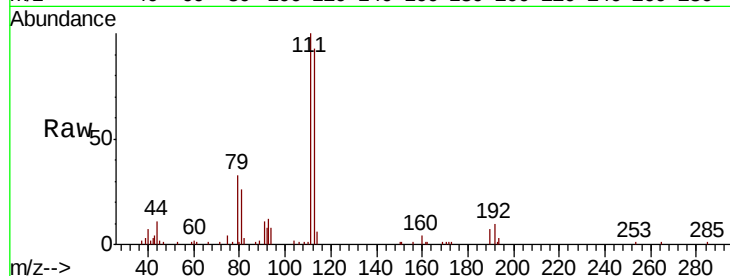
Tot Ion: 42 Resp: 904

Ion Ratio Lower Upper

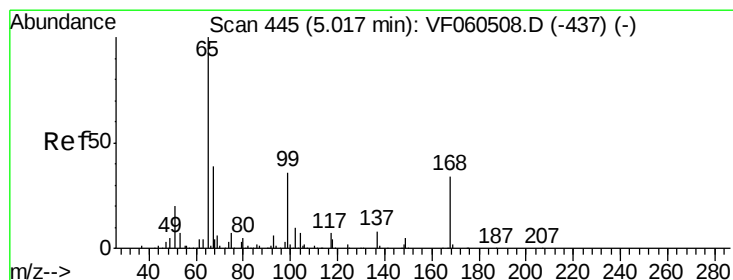
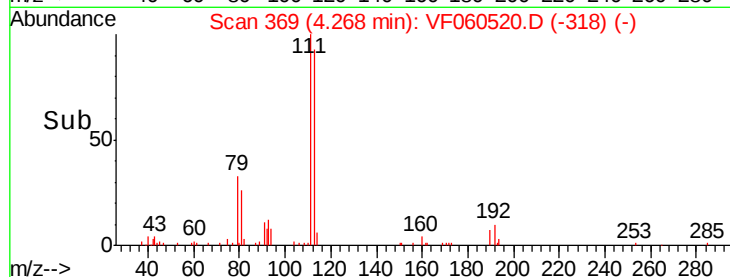
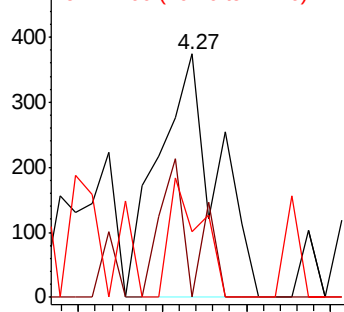
42 100

72 31.6 32.1 48.1#

71 27.0 29.7 44.5#



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: 36.959 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.01 min

Lab File: VF060520.D

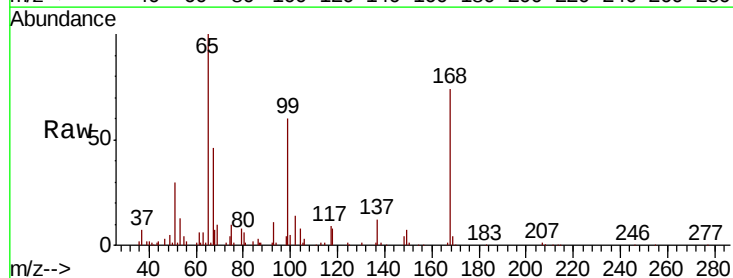
Acq: 26 Oct 2018 17:00

Tgt Ion: 65 Resp: 91053

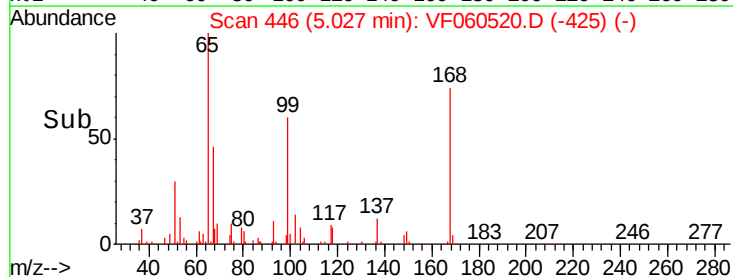
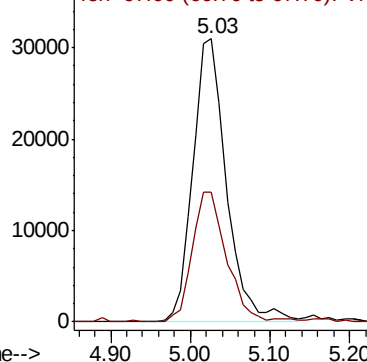
Ion Ratio Lower Upper

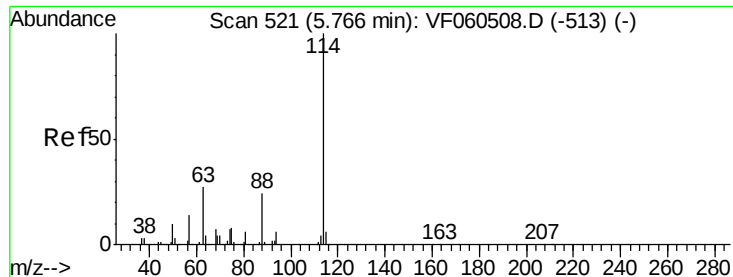
65 100

67 45.9 0.0 85.8



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: 5.77 min Scan# 521

Delta R.T. 0.00 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

AOC1-03B

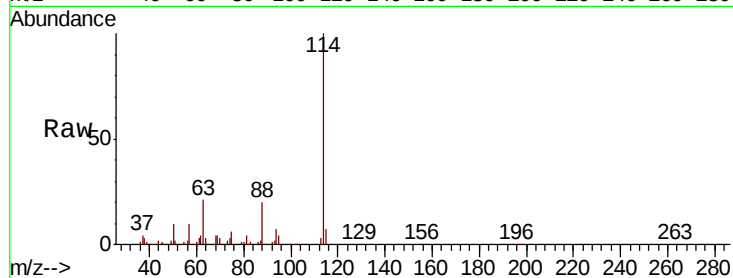
Tot Ion:114 Resp: 193858

Ion Ratio Lower Upper

114 100

63 21.3 0.0 54.4

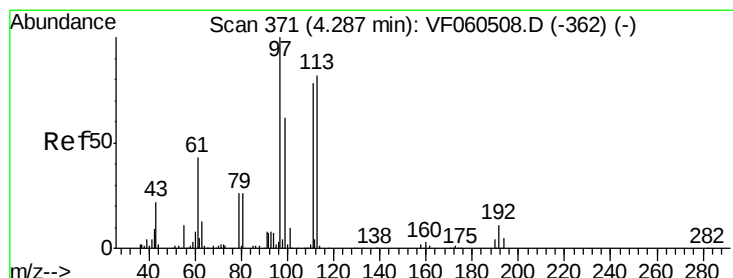
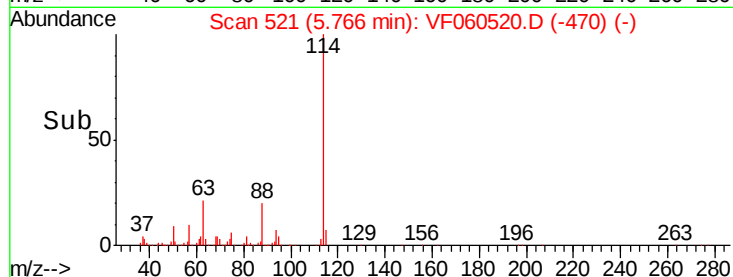
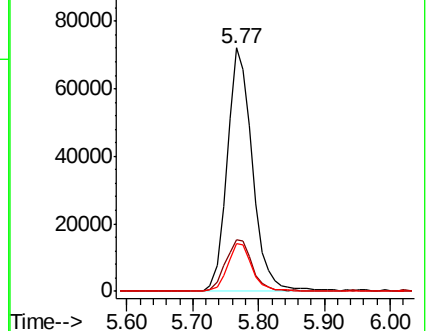
88 19.8 0.0 47.2



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: 41.795 ug/l

RT: 4.30 min Scan# 372

Delta R.T. 0.01 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

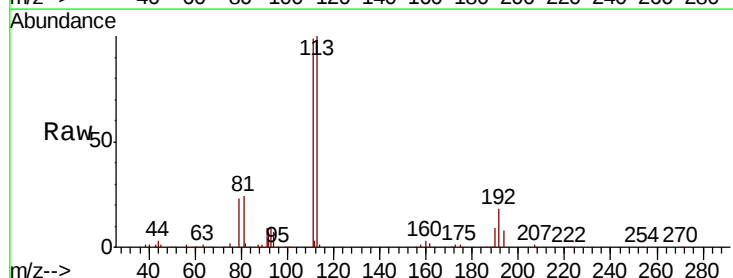
Tgt Ion:113 Resp: 97120

Ion Ratio Lower Upper

113 100

111 99.0 75.9 113.9

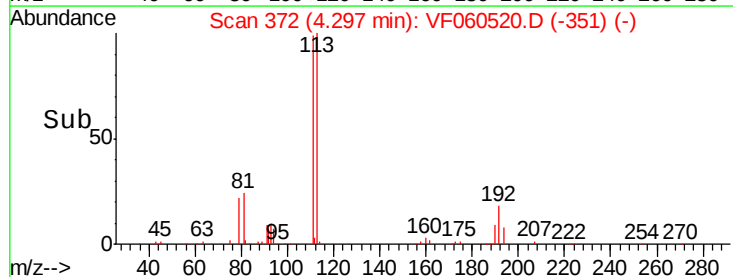
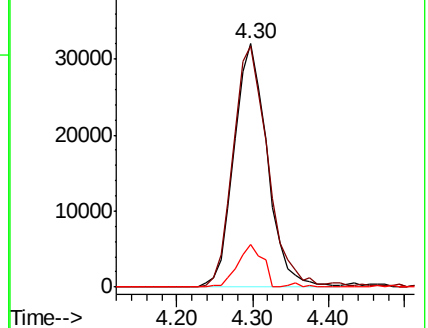
192 17.6 10.6 15.8#

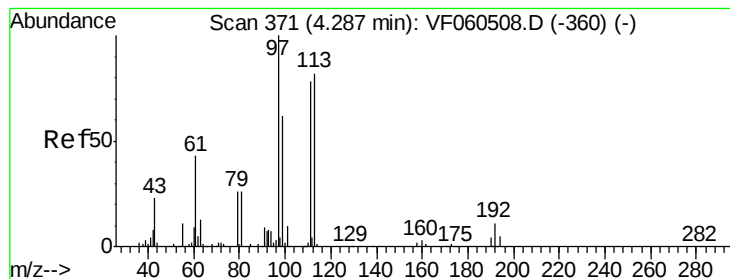


Abundance Ion 113.00 (112.70 to 113.70): V

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: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

AOC1-03B

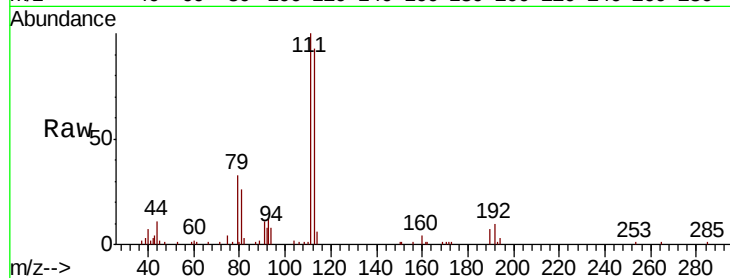
Tot Ion: 43 Resp: 608

Ion Ratio Lower Upper

43 100

61 35.4 148.5 222.7#

70 0.0 4.7 7.1#



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

800

600

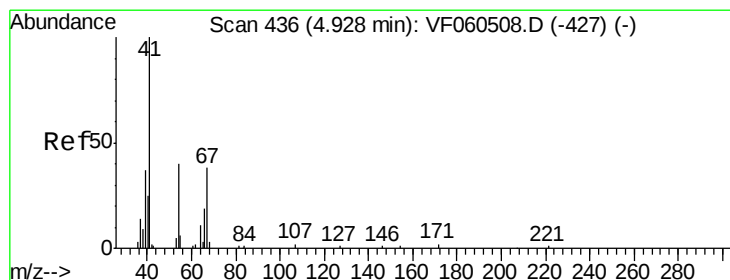
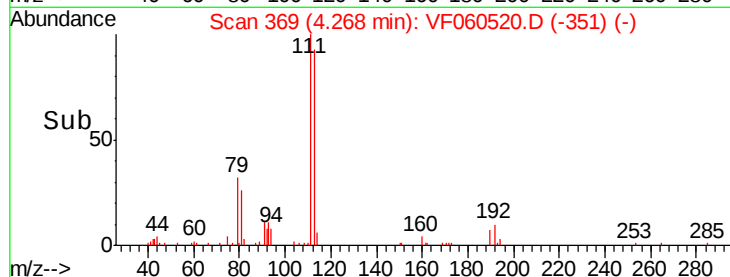
400

200

0

4.22 4.24 4.26 4.28 4.30

Time-->



#41

Methacrylonitrile

Concen: 2.216 ug/l

RT: 4.96 min Scan# 439

Delta R.T. 0.03 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Tgt Ion: 41 Resp: 1066

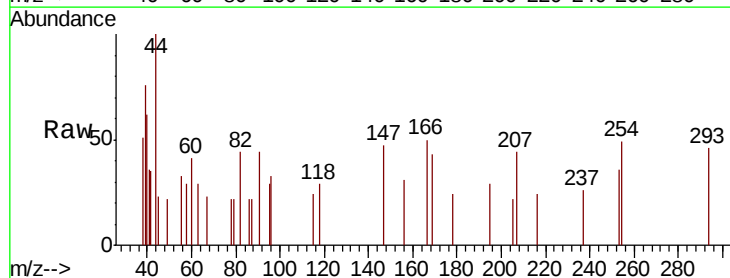
Ion Ratio Lower Upper

41 100

39 107.3 55.2 82.8#

67 32.5 29.8 44.8

52 0.0 37.0 55.6#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

20000

15000

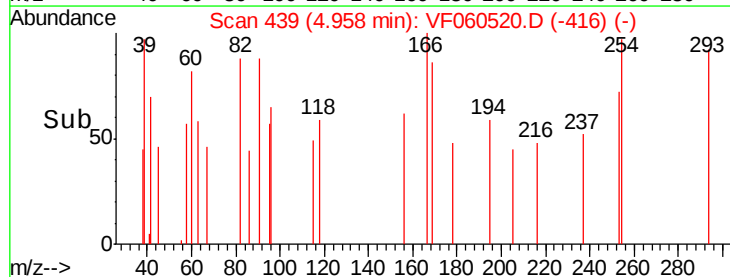
10000

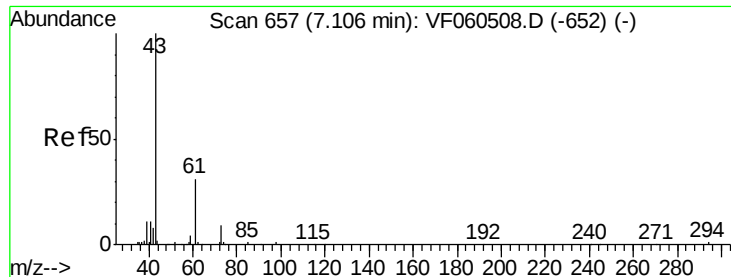
5000

0

4.85 4.90 4.95 5.00

Time-->





#43

Isopropyl Acetate

Concen: 1.780 ug/l

RT: 7.14 min Scan# 660

Delta R.T. 0.03 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

AOC1-03B

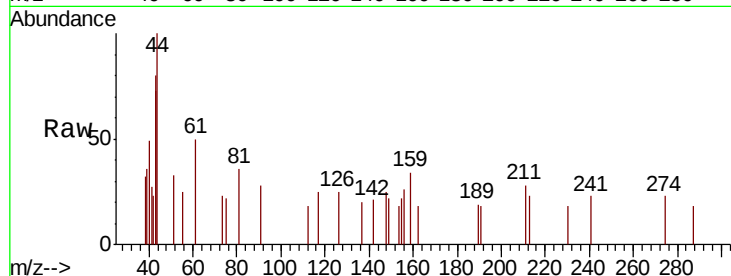
Tot Ion: 43 Resp: 1760

Ion Ratio Lower Upper

43 100

61 32.5 24.4 36.6

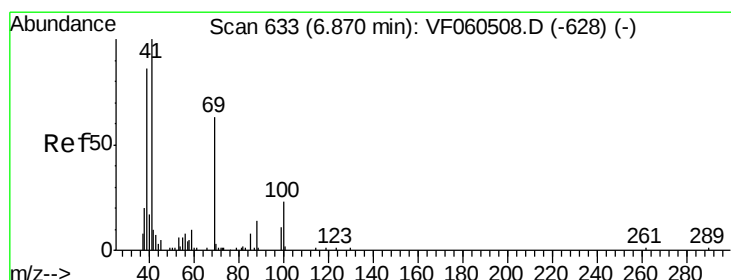
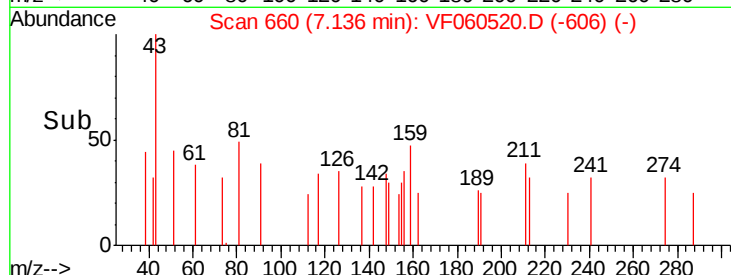
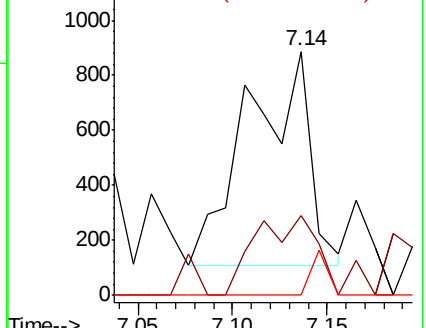
87 0.0 0.0 0.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#49

1,4-Dioxane

Concen: 28.028 ug/l

RT: 6.86 min Scan# 632

Delta R.T. -0.01 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

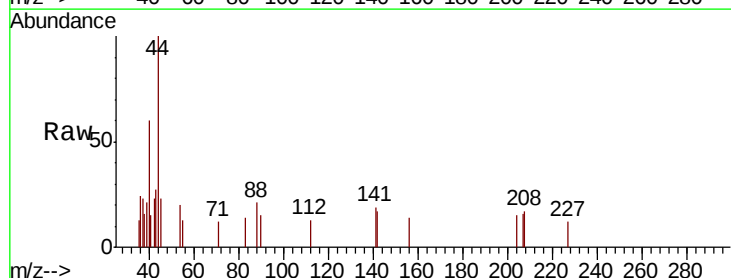
Tgt Ion: 88 Resp: 180

Ion Ratio Lower Upper

88 100

43 128.4 39.3 58.9#

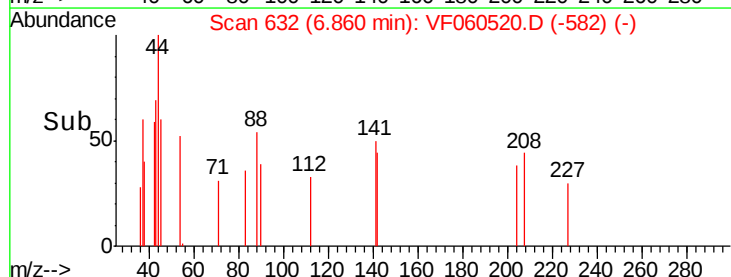
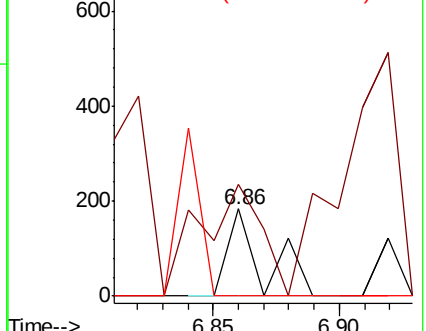
58 0.0 35.0 52.6#

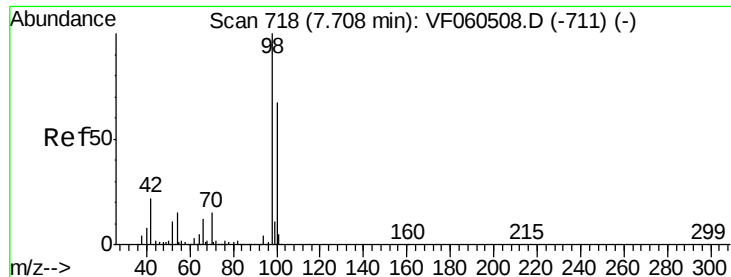


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 49.032 ug/l

RT: 7.71 min Scan# 718

Delta R.T. 0.00 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

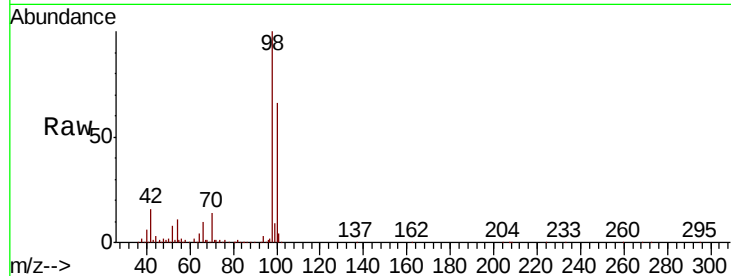
AOC1-03B

Tot Ion: 98 Resp: 228651

Ion Ratio Lower Upper

98 100

100 66.3 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

100000

80000

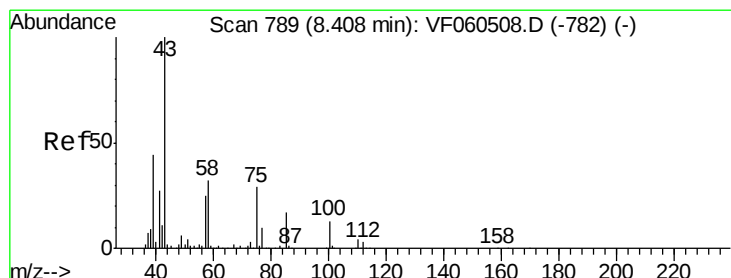
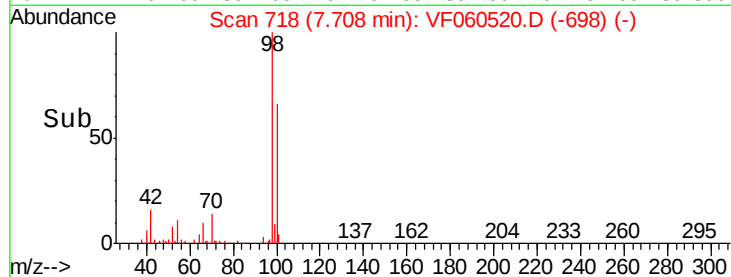
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 8.093 ug/l

RT: 8.41 min Scan# 789

Delta R.T. 0.00 min

Lab File: VF060520.D

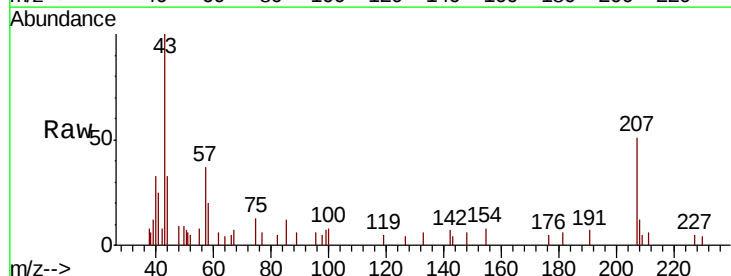
Acq: 26 Oct 2018 17:00

Tgt Ion: 43 Resp: 6251

Ion Ratio Lower Upper

43 100

58 20.3 25.4 38.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

2500

2000

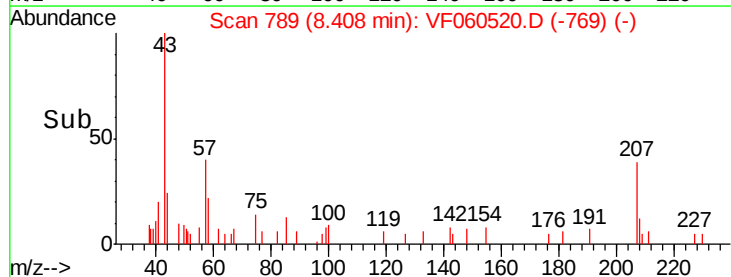
1500

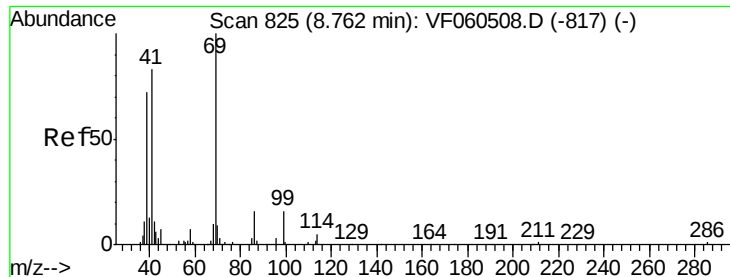
1000

500

0

Time-->





#56

Ethyl methacrylate

Concen: 1.736 ug/l

RT: 8.76 min Scan# 825

Delta R.T. 0.00 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

AOC1-03B

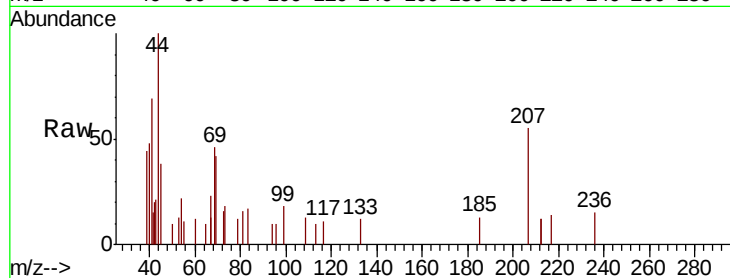
Tot Ion: 69 Resp: 1819

Ion Ratio Lower Upper

69 100

41 78.6 67.2 100.8

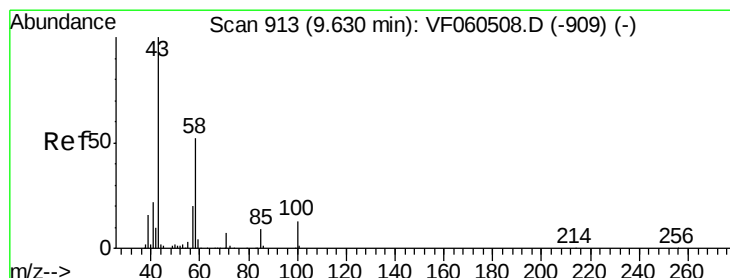
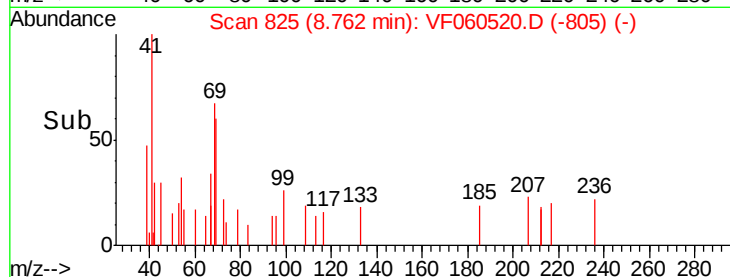
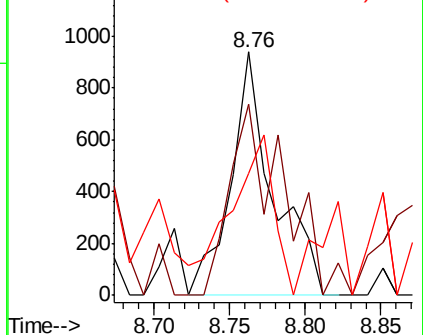
39 49.9 58.4 87.6#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: Below Cal

RT: 9.64 min Scan# 914

Delta R.T. 0.01 min

Lab File: VF060520.D

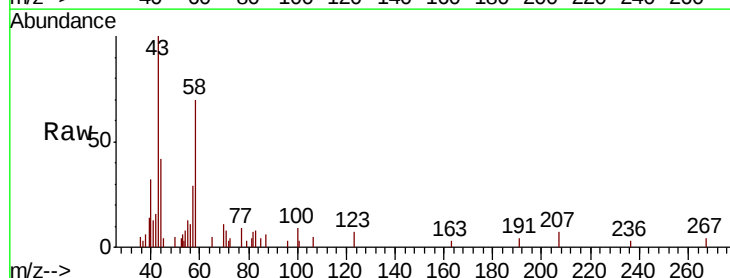
Acq: 26 Oct 2018 17:00

Tgt Ion: 43 Resp: 8301

Ion Ratio Lower Upper

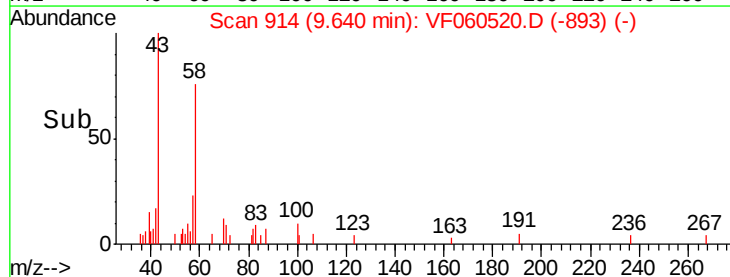
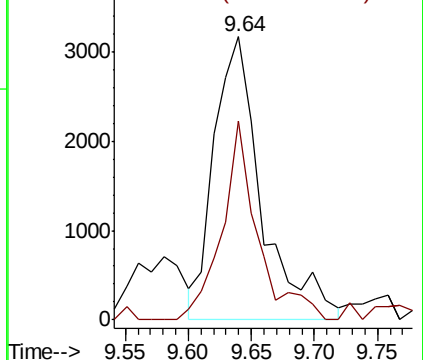
43 100

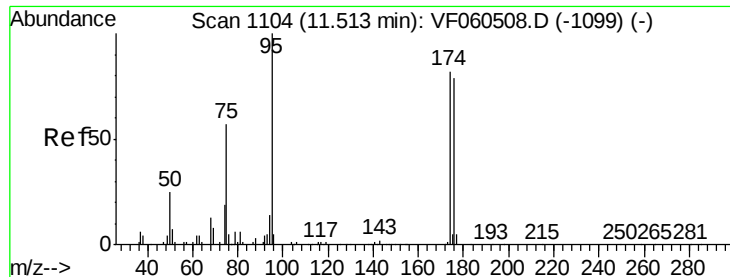
58 70.2 23.5 70.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 41.056 ug/l

RT: 11.51 min Scan# 1104

Delta R.T. 0.00 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

Instrument :

MSVOA_F

ClientSampleId :

AOC1-03B

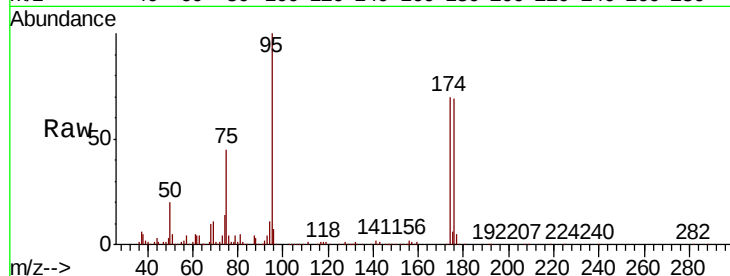
Tot Ion: 95 Resp: 106636

Ion Ratio Lower Upper

95 100

174 70.3 0.0 164.2

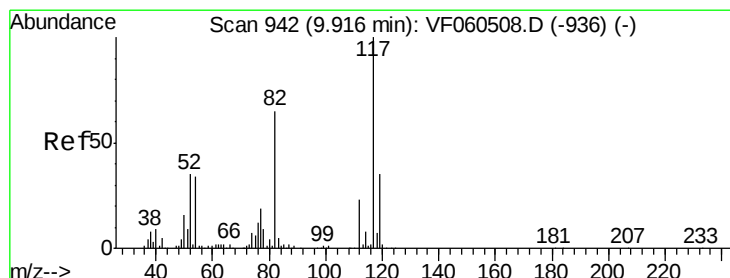
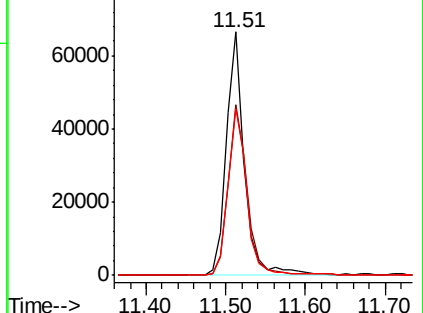
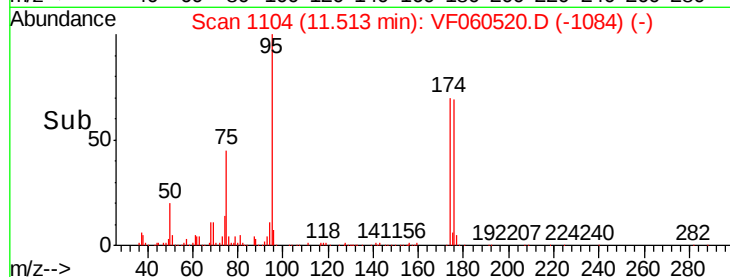
176 68.6 0.0 158.4



Abundance Ion 95.00 (94.70 to 95.70): VF060520.D (-1084) (-)

Ion 174.00 (173.70 to 174.70): VF060520.D (-1084) (-)

Ion 176.00 (175.70 to 176.70): VF060520.D (-1084) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.01 min

Lab File: VF060520.D

Acq: 26 Oct 2018 17:00

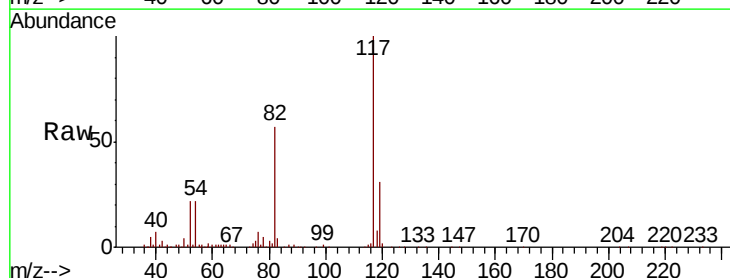
Tgt Ion: 117 Resp: 179025

Ion Ratio Lower Upper

117 100

82 56.9 51.7 77.5

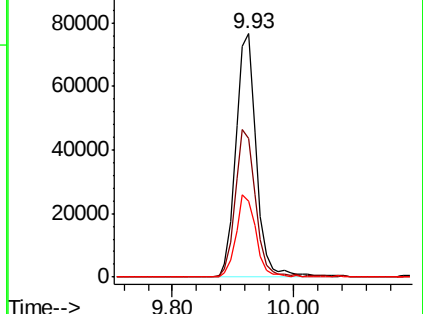
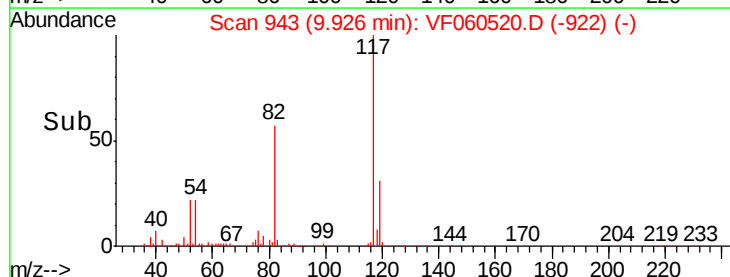
119 31.2 28.3 42.5

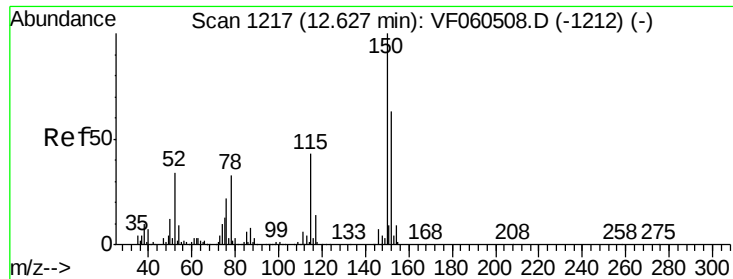


Abundance Ion 117.00 (116.70 to 117.70): VF060520.D (-922) (-)

Ion 82.00 (81.70 to 82.70): VF060520.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF060520.D (-922) (-)



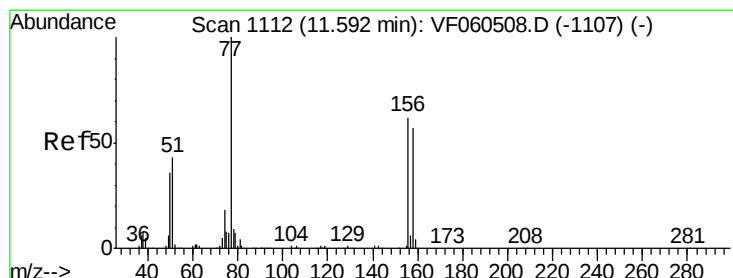
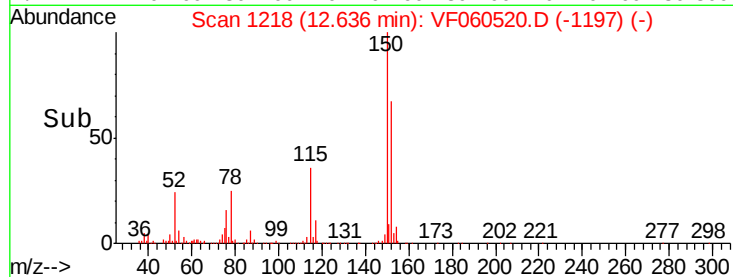
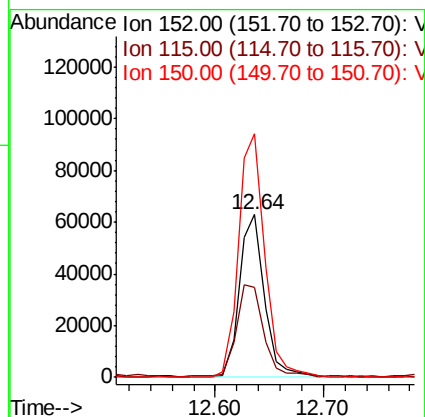
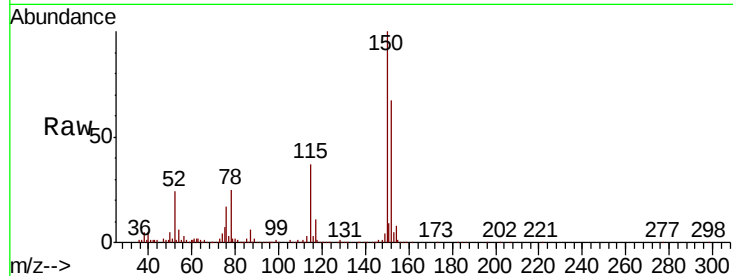


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.64 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

Instrument :
MSVOA_F
ClientSampleId :
AOC1-03B

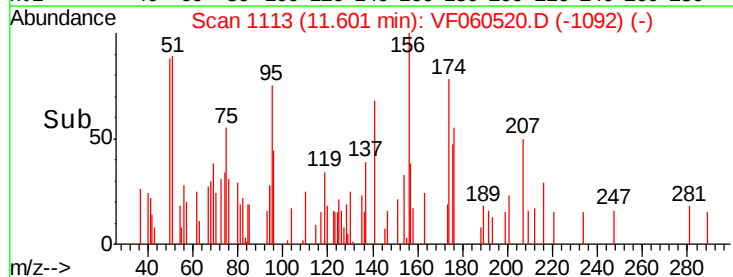
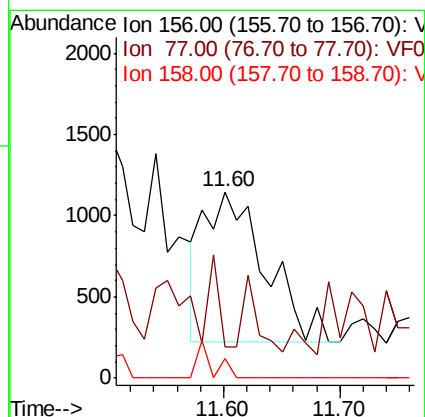
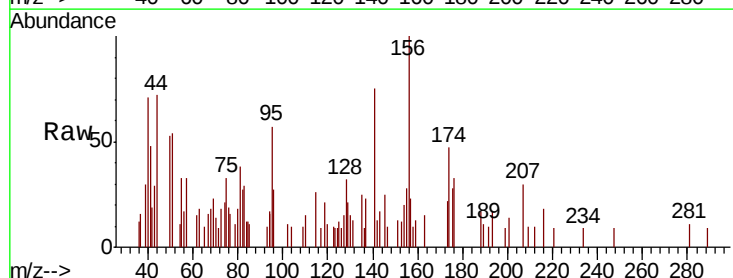
Tot Ion	Ratio	Lower	Upper
152	100		
115	55.3	34.6	103.9
150	149.9	0.0	319.8

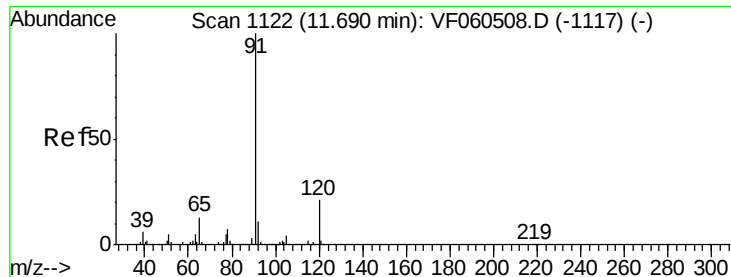


#77

Bromobenzene
Concen: 1.984 ug/l
RT: 11.60 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

Tgt Ion	Ratio	Lower	Upper
156	100		
77	16.4	80.1	240.3#
158	10.4	45.9	137.6#

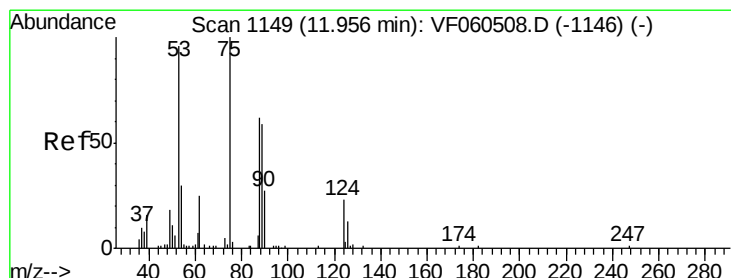
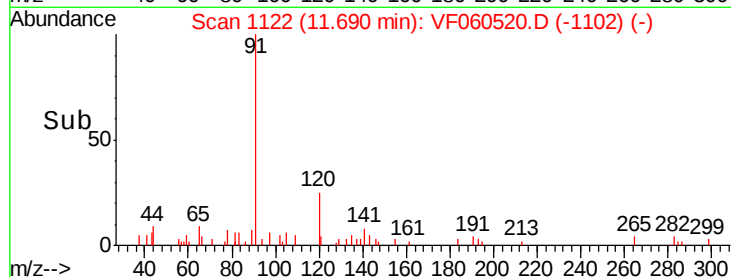
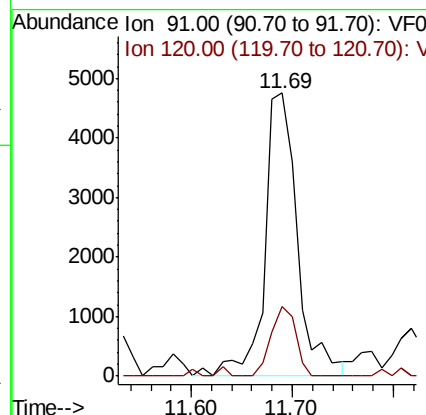
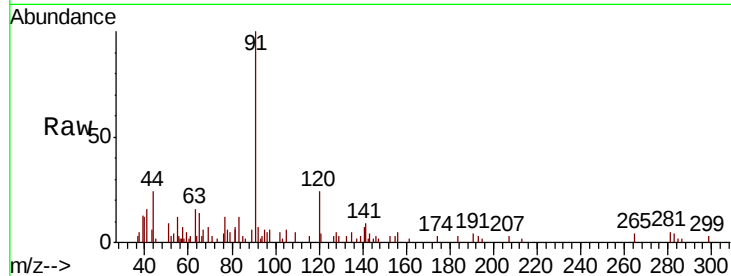




#78
n-propylbenzene
Concen: 1.126 ug/l
RT: 11.69 min Scan# 1122
Delta R.T. 0.00 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

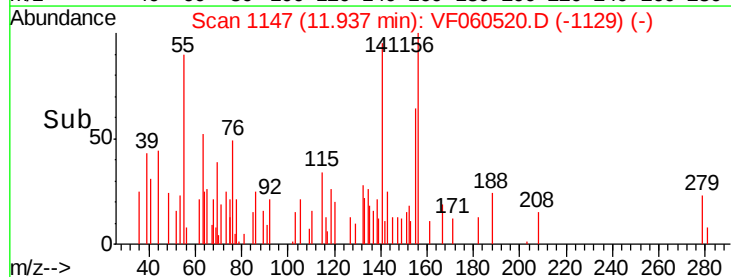
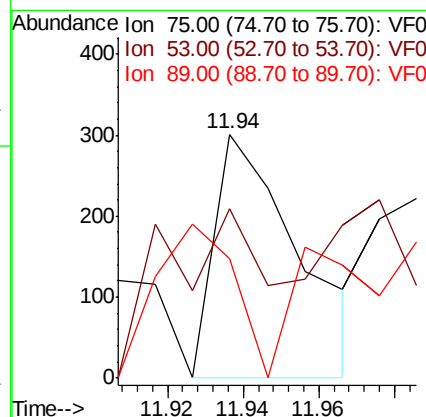
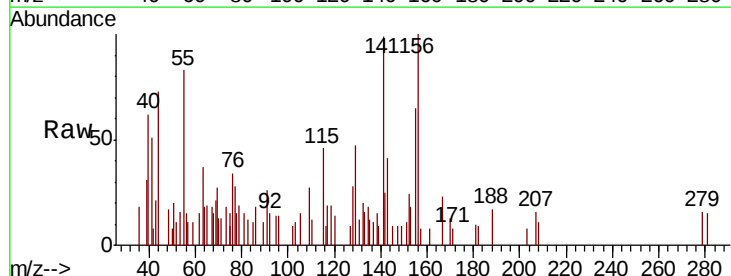
Instrument :
MSVOA_F
ClientSampleId :
AOC1-03B

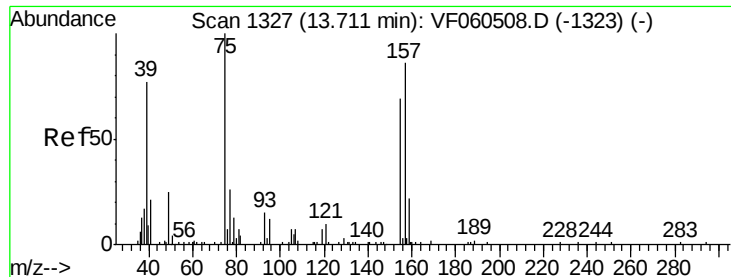
Tot Ion: 91 Resp: 10677
Ion Ratio Lower Upper
91 100
120 24.4 10.3 30.9



#81
trans-1,4-Dichloro-2-butene
Concen: 1.072 ug/l
RT: 11.94 min Scan# 1147
Delta R.T. -0.02 min
Lab File: VF060520.D
Acq: 26 Oct 2018 17:00

Tgt Ion: 75 Resp: 460
Ion Ratio Lower Upper
75 100
53 69.8 85.0 127.6#
89 48.8 50.2 75.4#

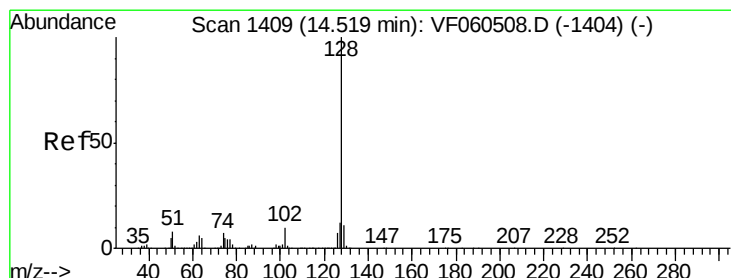
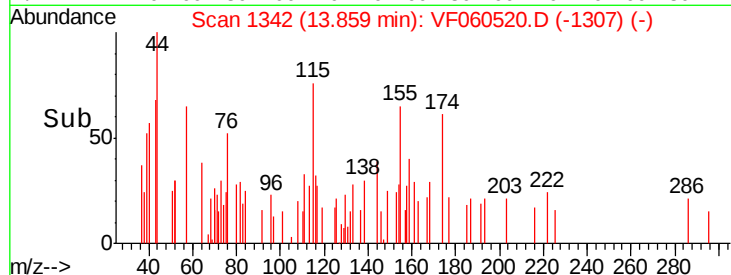
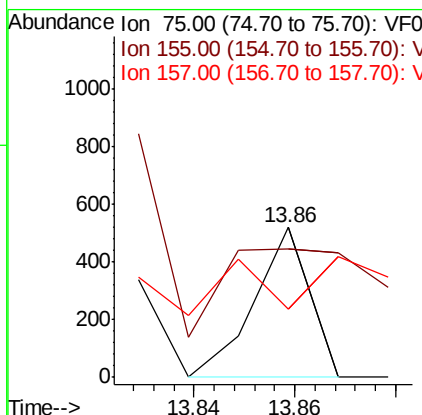
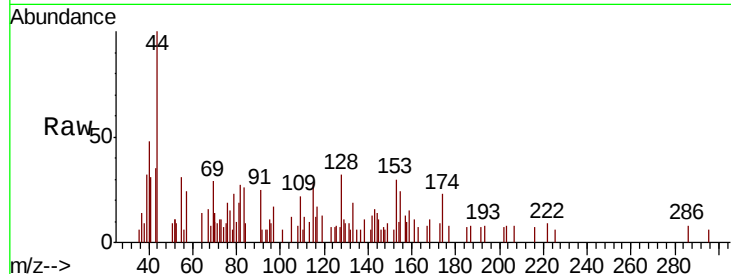




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.312 ug/l
 RT: 13.86 min Scan# 1342
 Delta R.T. 0.15 min
 Lab File: VF060520.D
 Acq: 26 Oct 2018 17:00

Instrument :
 MSVOA_F
 ClientSampled :
 AOC1-03B

Tot Ion: 75 Resp: 391
 Ion Ratio Lower Upper
 75 100
 155 85.7 34.7 104.1
 157 45.9 42.9 128.5



#95
 Naphthalene
 Concen: 1.290 ug/l
 RT: 14.53 min Scan# 1410
 Delta R.T. 0.01 min
 Lab File: VF060520.D
 Acq: 26 Oct 2018 17:00

Tgt Ion: 128 Resp: 5461
 Ion Ratio Lower Upper
 128 100
 127 11.8 10.0 15.0
 129 9.5 8.9 13.3

