

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121718\
 Data File : VF061042.D
 Acq On : 17 Dec 2018 16:00
 Operator : VA/AP
 Sample : J6319-12
 Misc : 4.90g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 18 03:08:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	214505	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	363913	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.79	117	245595	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	108151	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	128139	50.71	ug/l	-0.02
Spiked Amount			Recovery	=	101.42%	
35) Dibromofluoromethane	4.13	113	139814	48.43	ug/l	-0.02
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	7.57	98	303965	35.74	ug/l	-0.02
Spiked Amount			Recovery	=	71.48%	
62) 4-Bromofluorobenzene	11.43	95	208002	53.82	ug/l	-0.01
Spiked Amount			Recovery	=	107.64%	

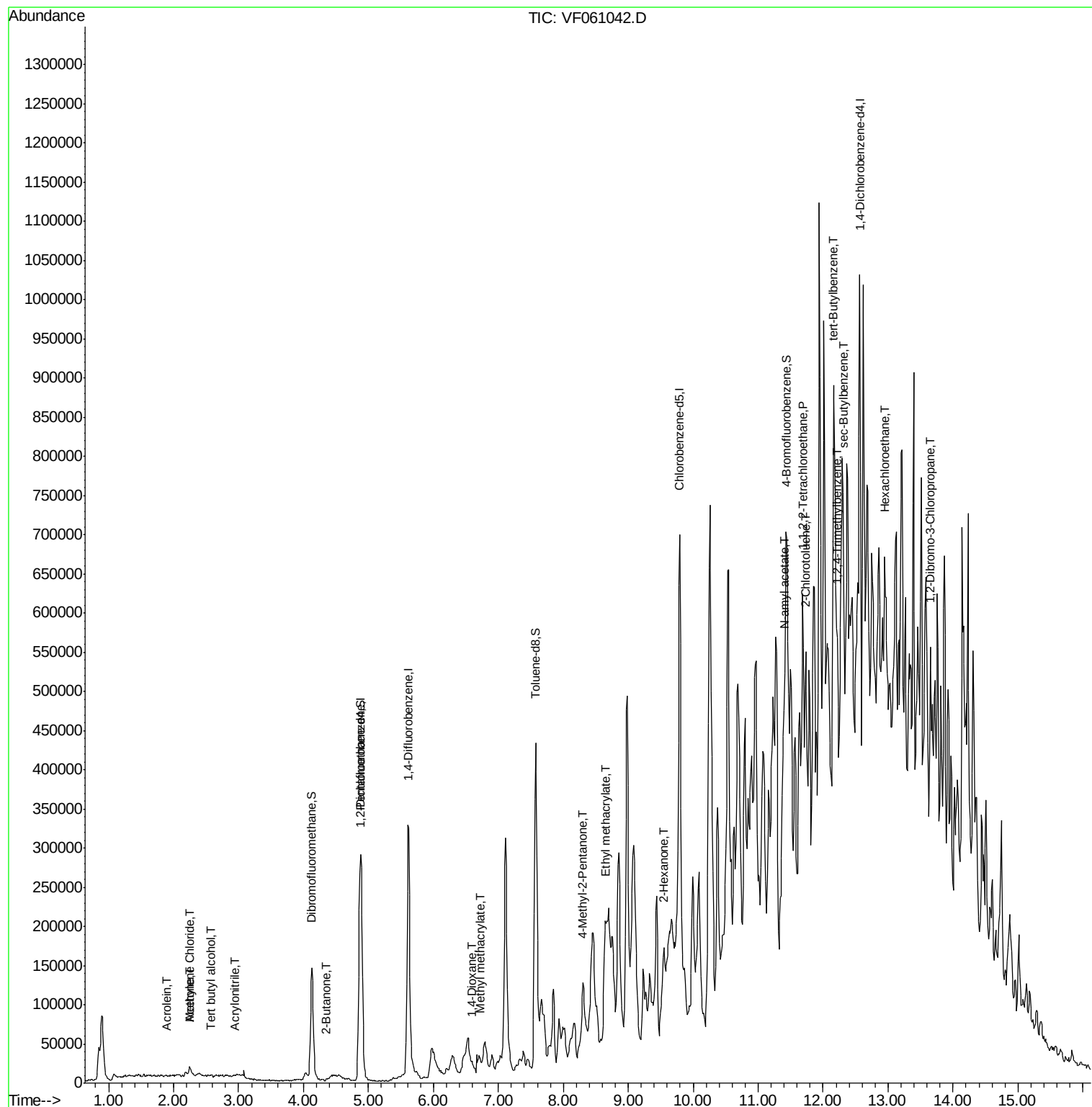
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	136	1.313	ug/l #	1
13) Acrolein	1.90	56	537	5.472	ug/l	99
15) Acrylonitrile	2.95	53	962	4.142	ug/l #	37
16) Acetone	2.25	43	13883	29.793	ug/l	95
20) Methylene Chloride	2.26	84	3434	2.009	ug/l	95
25) 2-Butanone	4.35	43	3965	4.919	ug/l #	57
41) Methacrylonitrile	4.79	41	388	Below Cal	#	40
43) Isopropyl Acetate	6.97	43	978	Below Cal	#	49
48) Methyl methacrylate	6.72	41	12418	8.364	ug/l #	83
49) 1,4-Dioxane	6.61	88	73	6.718	ug/l #	1
51) 4-Methyl-2-Pentanone	8.30	43	42246	27.929	ug/l #	47
56) Ethyl methacrylate	8.65	69	31097	15.338	ug/l #	66
59) 2-Hexanone	9.54	43	21936	20.671	ug/l #	39
74) N-amyl acetate	11.40	43	47689	24.164	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.69	83	73009	51.905	ug/l #	34
79) 2-Chlorotoluene	11.74	91	12422	2.165	ug/l #	57
83) tert-Butylbenzene	12.15	119	9333	1.321	ug/l #	20
84) 1,2,4-Trimethylbenzene	12.22	105	9313	1.345	ug/l	86
85) sec-Butylbenzene	12.32	105	39024	4.033	ug/l #	67
90) Hexachloroethane	12.94	117	2592	1.327	ug/l #	25
92) 1,2-Dibromo-3-Chloropropan	13.65	75	1129	4.152	ug/l #	16
95) Naphthalene	14.47	128	14306	Below Cal	#	51

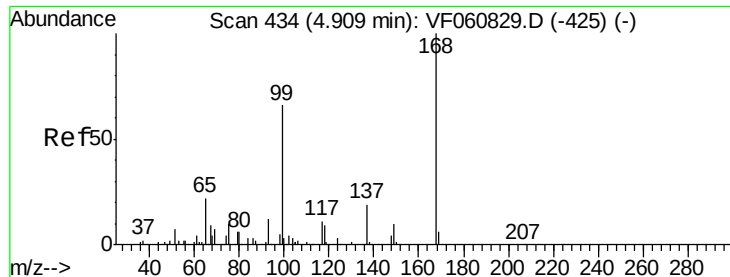
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

Instrument :

MSVOA_F

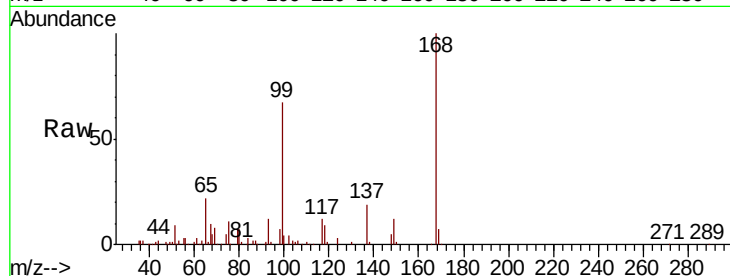
ClientSampleId :

Tot Ion:168 Resp: 214505

Ion Ratio Lower Upper

168 100

99 67.4 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

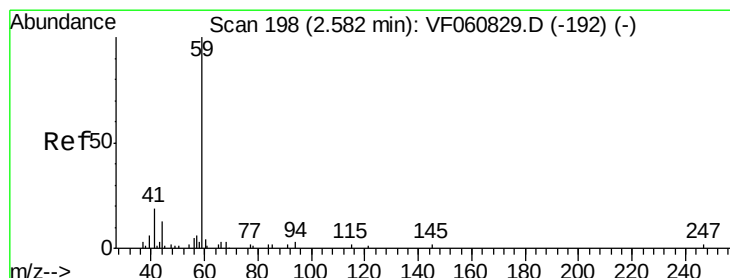
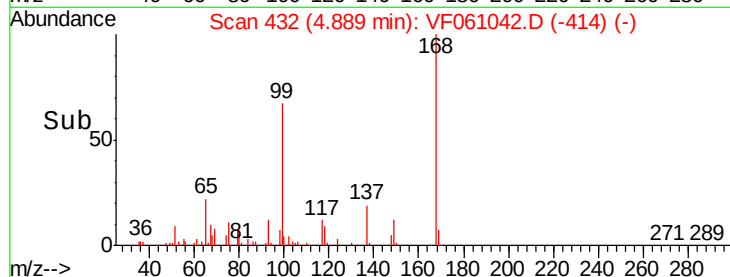
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.313 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061042.D

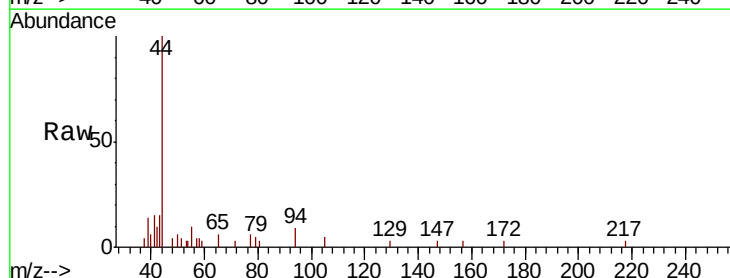
Acq: 17 Dec 2018 16:00

Tgt Ion: 59 Resp: 136

Ion Ratio Lower Upper

59 100

57 139.1 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

250

200

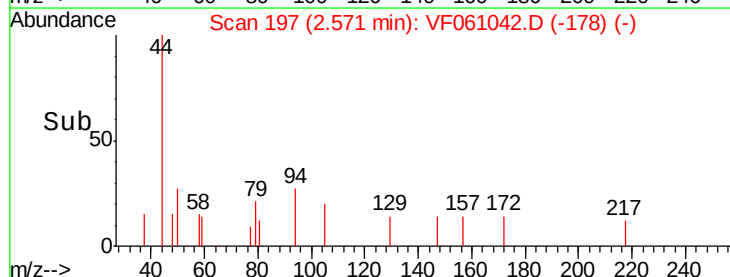
150

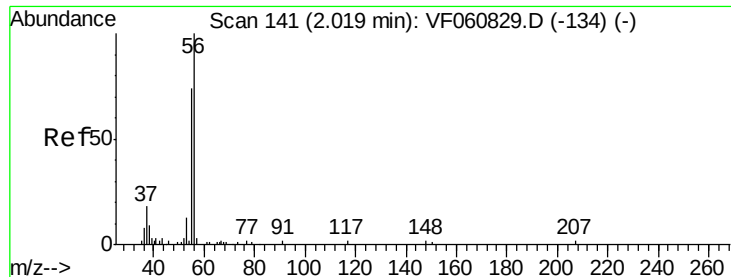
100

50

0

Time-->





#13

Acrolein

Concen: 5.472 ug/l

RT: 1.90 min Scan# 129

Delta R.T. -0.12 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

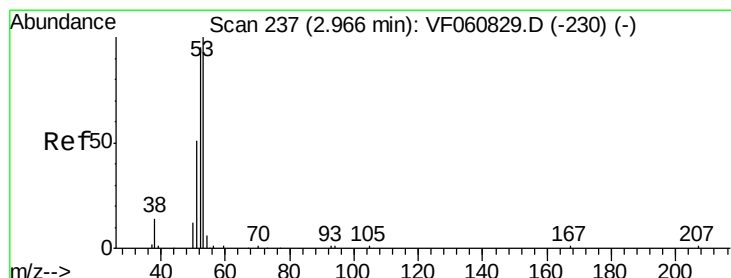
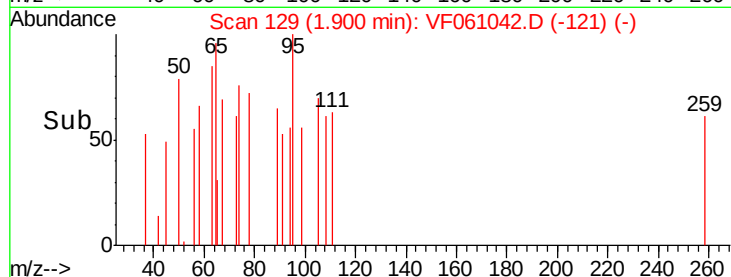
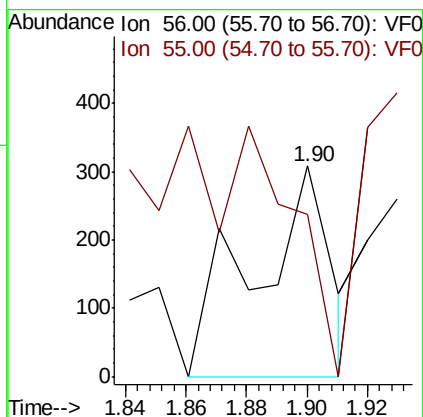
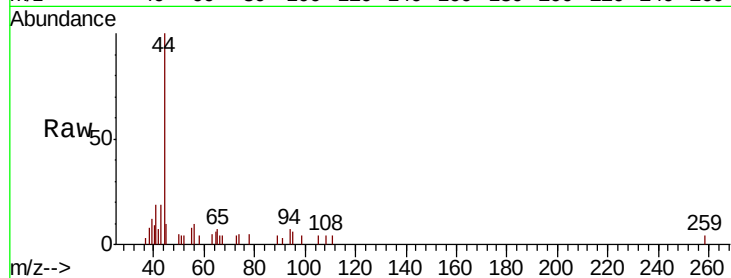
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 537

Ion Ratio Lower Upper

56 100

55 77.3 61.2 91.8



#15

Acrylonitrile

Concen: 4.142 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

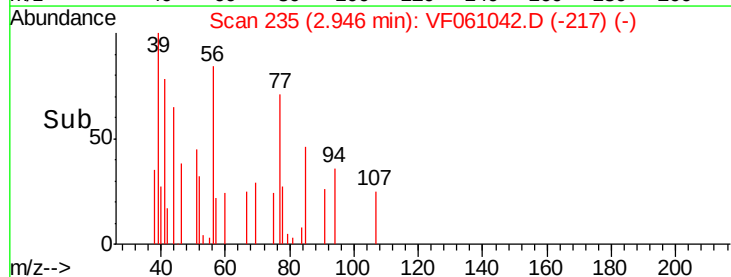
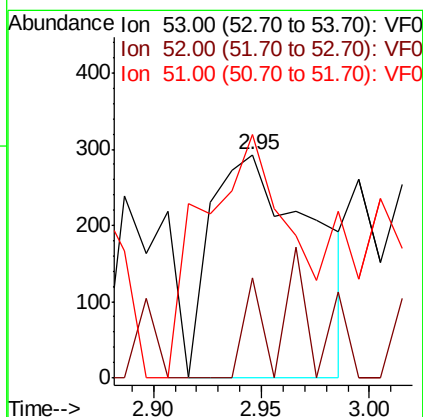
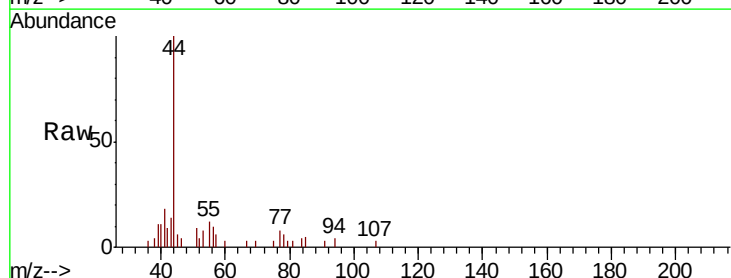
Tgt Ion: 53 Resp: 962

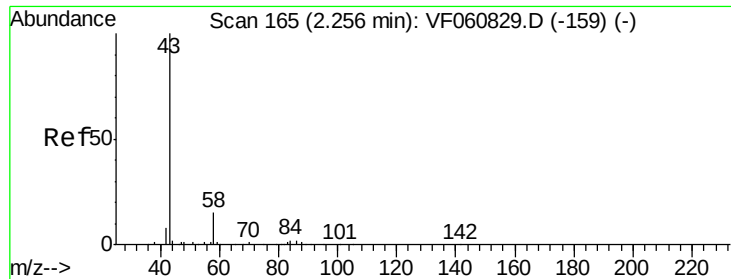
Ion Ratio Lower Upper

53 100

52 45.1 76.5 114.7#

51 108.9 40.7 61.1#





#16

Acetone

Concen: 29.793 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

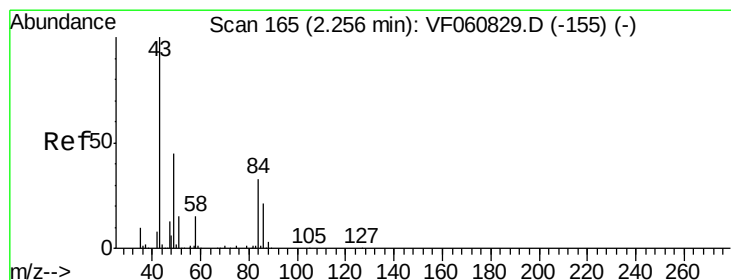
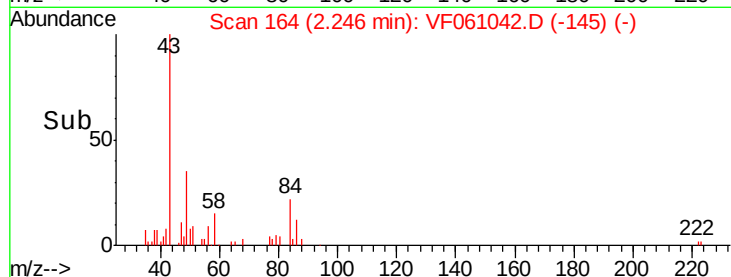
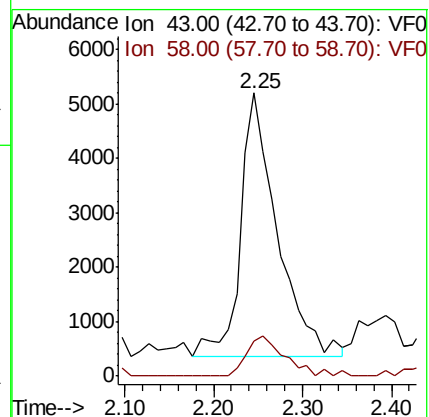
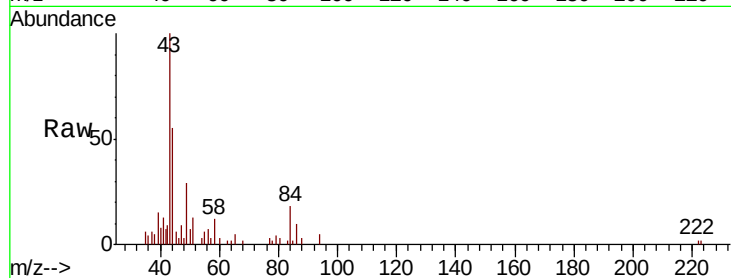
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 13883

Ion Ratio Lower Upper

43 100

58 12.4 11.4 17.2



#20

Methylene Chloride

Concen: 2.009 ug/l

RT: 2.26 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

Tgt Ion: 84 Resp: 3434

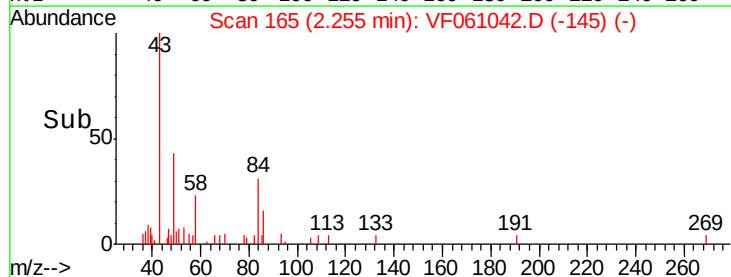
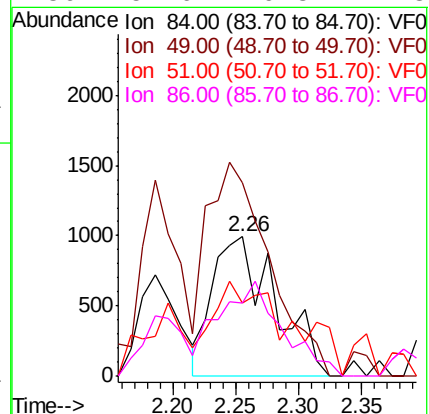
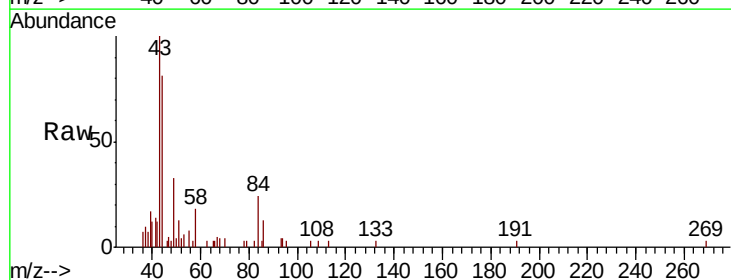
Ion Ratio Lower Upper

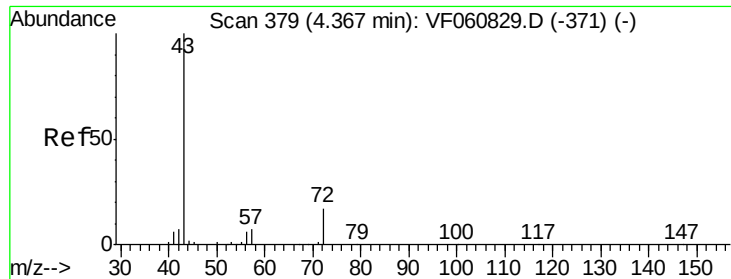
84 100

49 138.4 111.3 166.9

51 52.2 38.0 57.0

86 52.6 49.8 74.8





#25

2-Butanone

Concen: 4.919 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

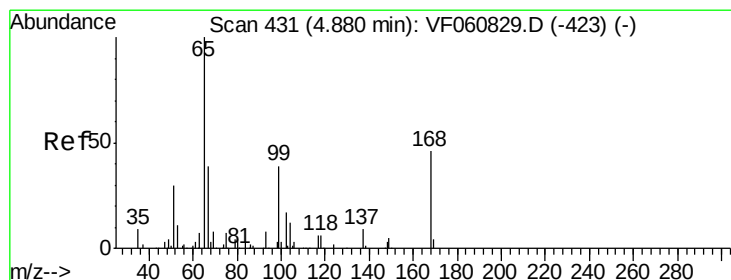
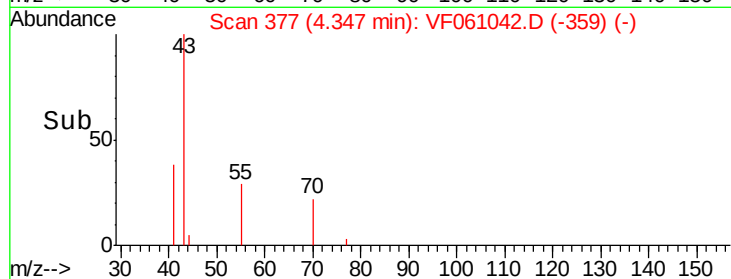
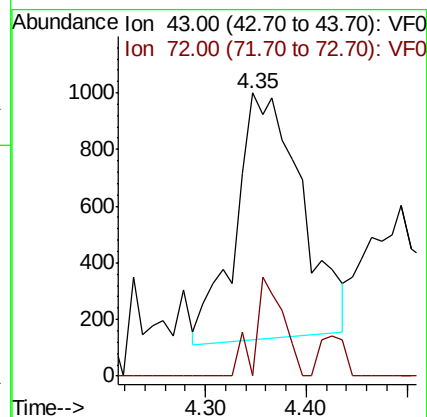
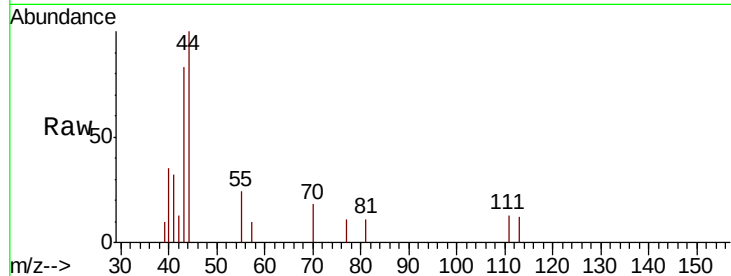
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3965

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



#33

1,2-Dichloroethane-d4

Concen: 50.709 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061042.D

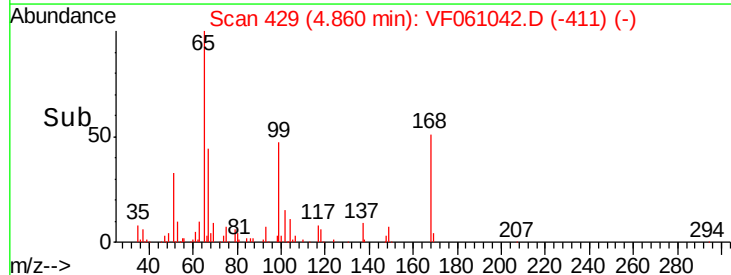
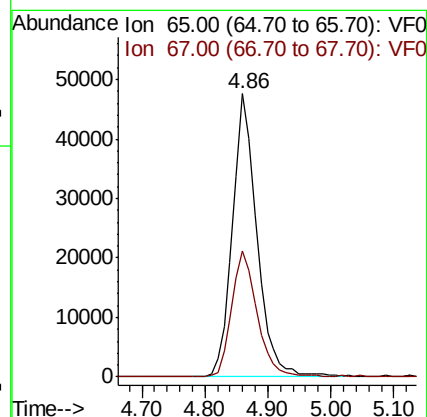
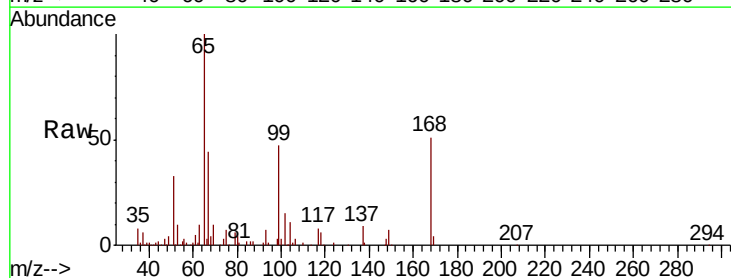
Acq: 17 Dec 2018 16:00

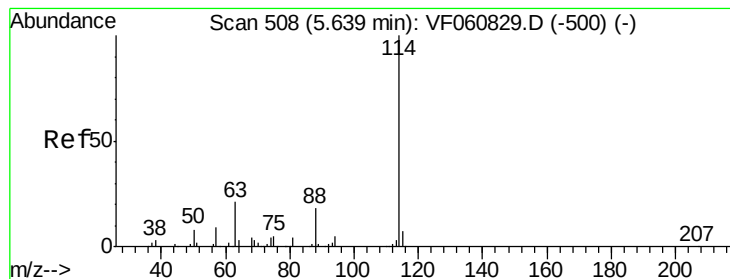
Tgt Ion: 65 Resp: 128139

Ion Ratio Lower Upper

65 100

67 44.4 0.0 96.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

Instrument :

MSVOA_F

ClientSampleId :

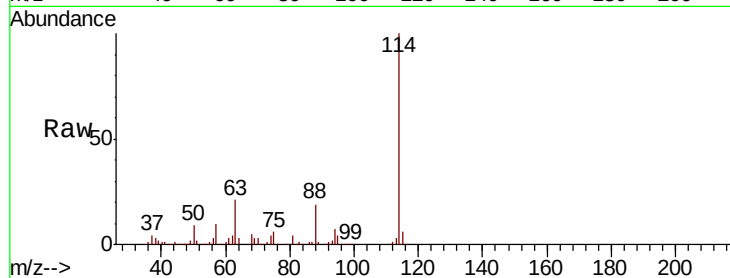
Tot Ion:114 Resp: 363913

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.6

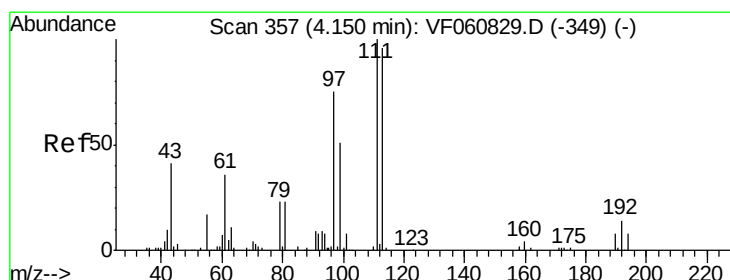
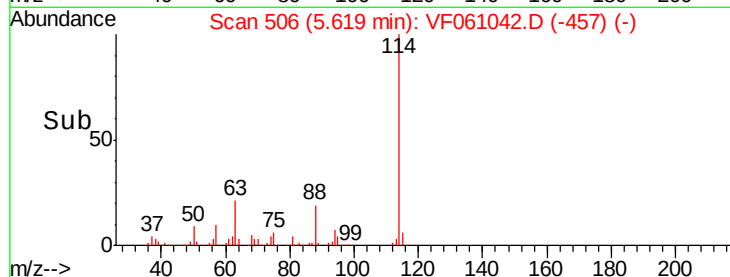
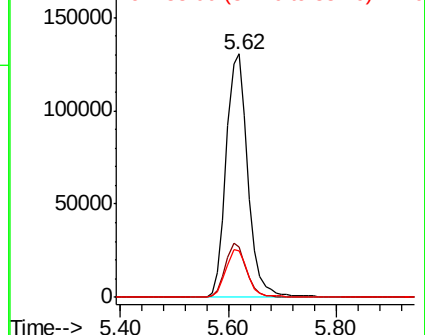
88 18.8 0.0 36.6



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: 48.429 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.02 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

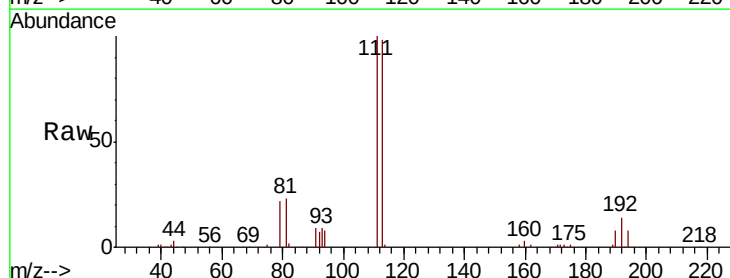
Tgt Ion:113 Resp: 139814

Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.6

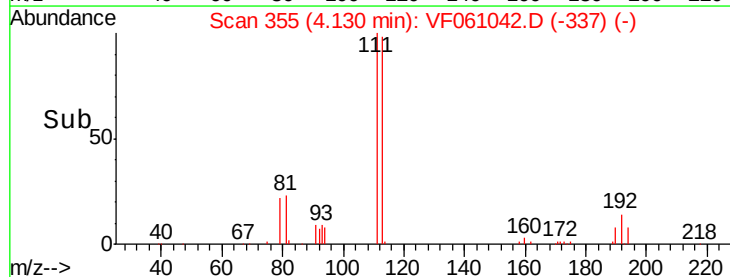
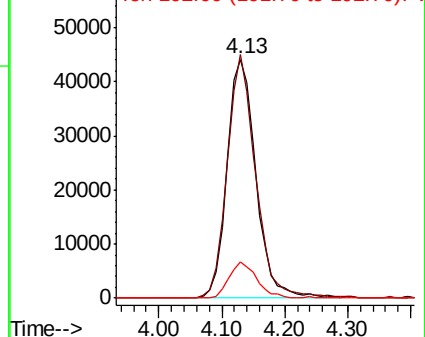
192 15.0 12.3 18.5

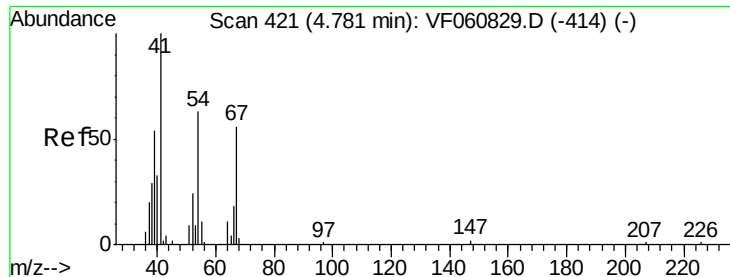


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.79 min Scan# 422

Delta R.T. 0.01 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 41 Resp: 388

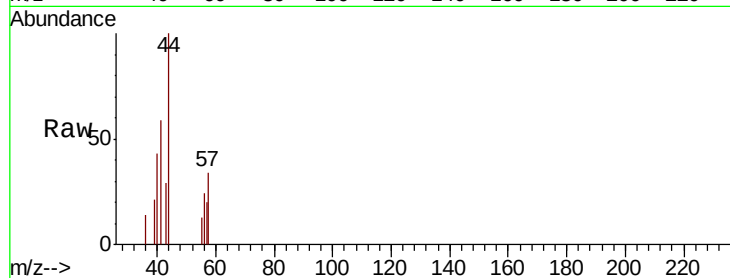
Ion Ratio Lower Upper

41 100

39 35.1 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

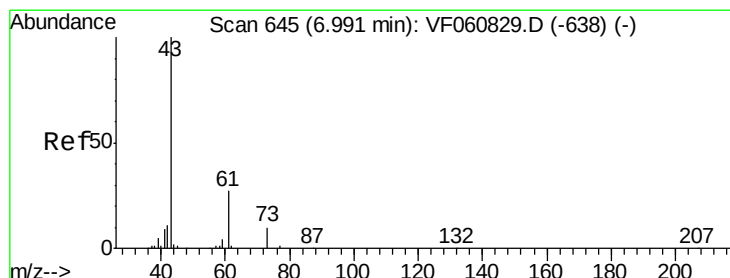
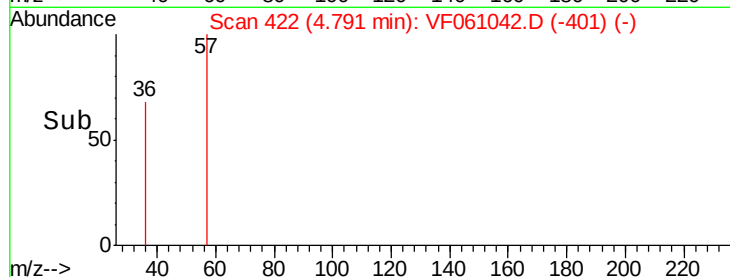
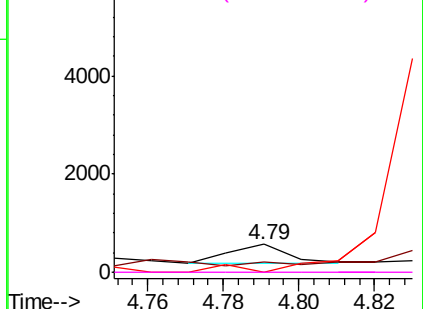


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#43

Isopropyl Acetate

Concen: Below Cal

RT: 6.97 min Scan# 643

Delta R.T. -0.02 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

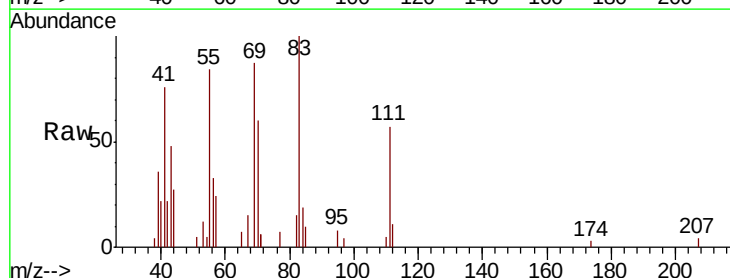
Tgt Ion: 43 Resp: 978

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

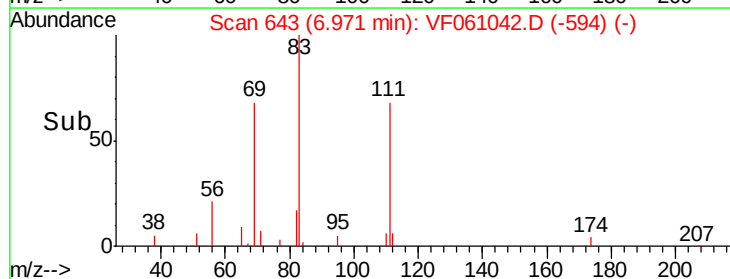
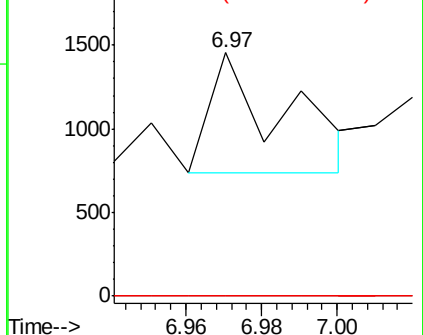
87 0.0 0.2 0.4#

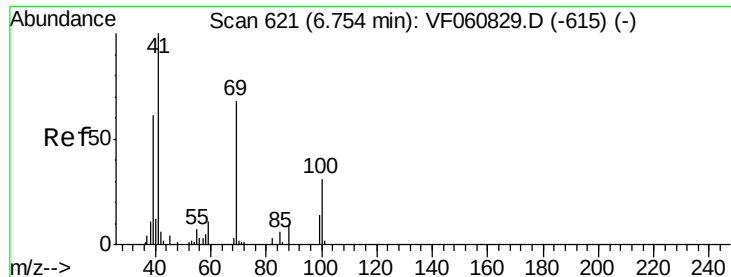


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

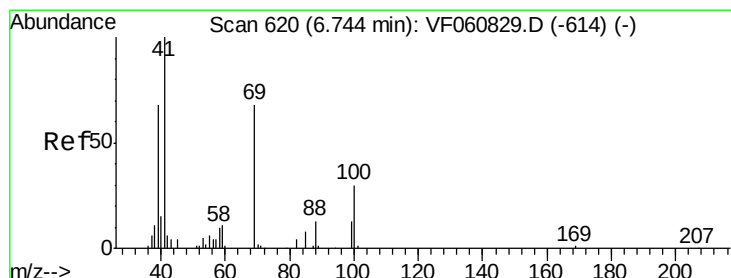
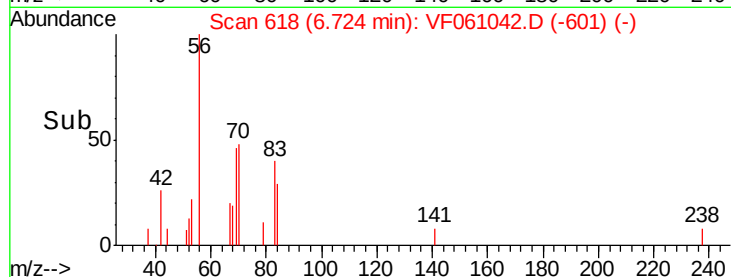
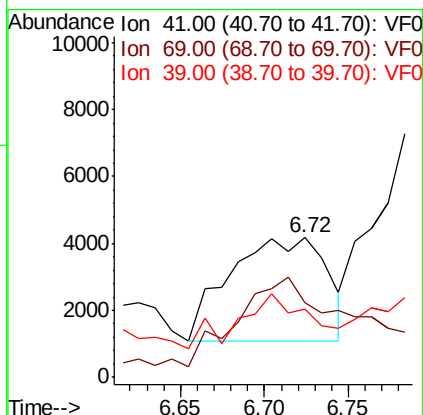
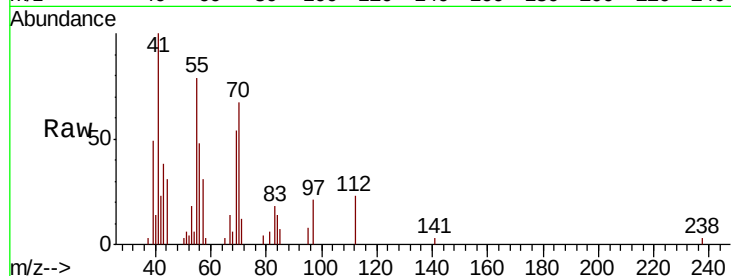




#48
Methyl methacrylate
Concen: 8.364 ug/l
RT: 6.72 min Scan# 618
Delta R.T. -0.03 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

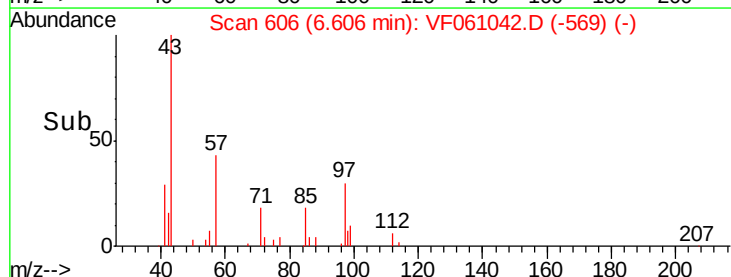
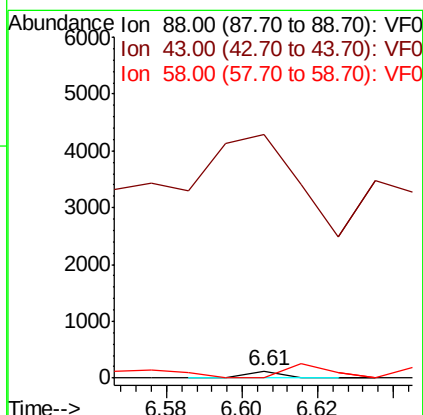
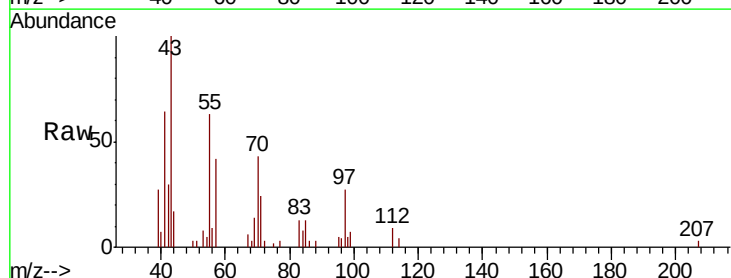
Instrument :
MSVOA_F
ClientSampleId :

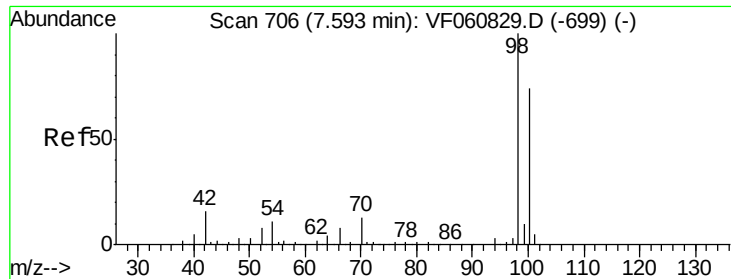
Tot Ion: 41 Resp: 12418
Ion Ratio Lower Upper
41 100
69 53.7 53.9 80.9#
39 48.6 49.0 73.6#



#49
1,4-Dioxane
Concen: 6.718 ug/l
RT: 6.61 min Scan# 606
Delta R.T. -0.14 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 3485.4 42.0 63.0#
58 0.0 61.8 92.8#

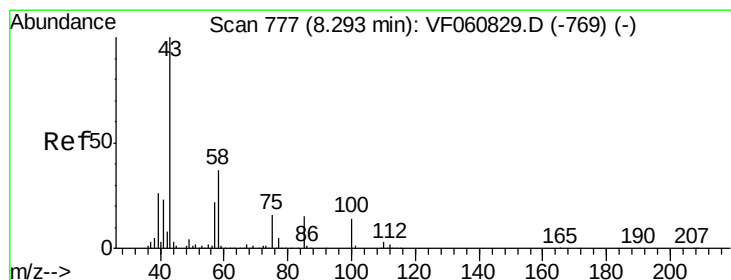
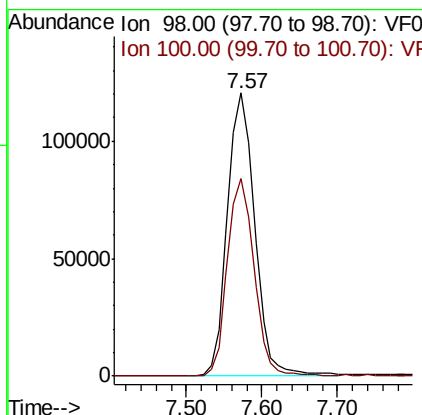
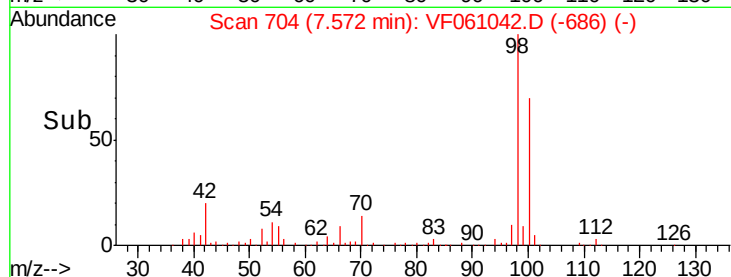
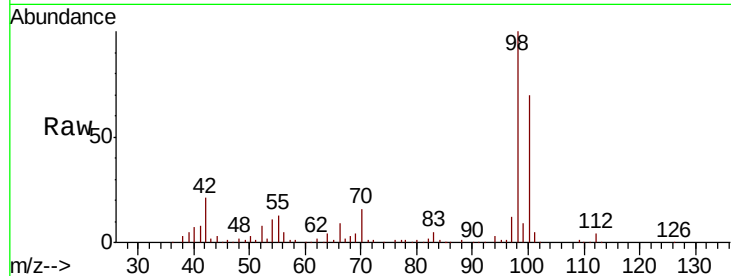




#50
Toluene-d8
Concen: 35.743 ug/l
RT: 7.57 min Scan# 704
Delta R.T. -0.02 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

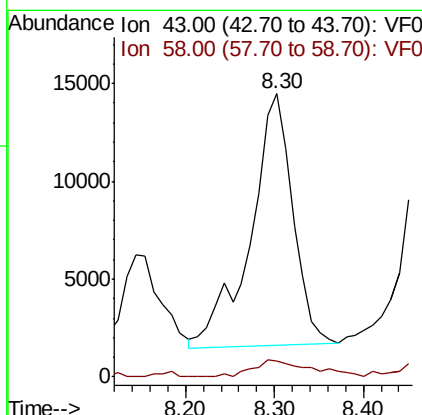
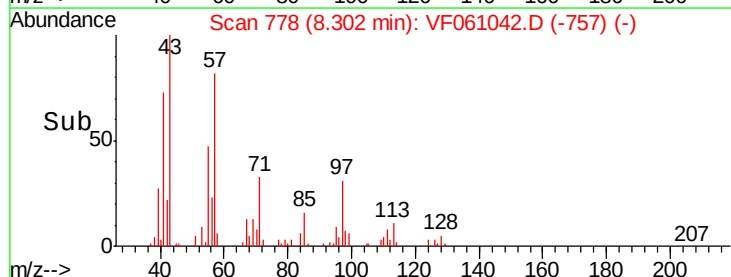
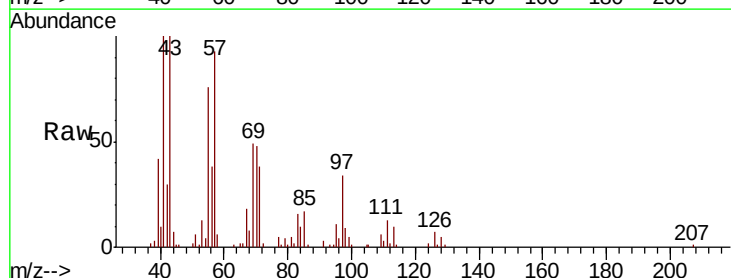
Instrument :
MSVOA_F
ClientSampled :

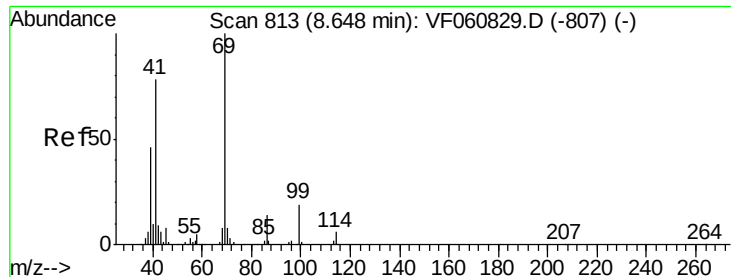
Tot Ion: 98 Resp: 303965
Ion Ratio Lower Upper
98 100
100 69.9 59.3 88.9



#51
4-Methyl-2-Pentanone
Concen: 27.929 ug/l
RT: 8.30 min Scan# 778
Delta R.T. 0.01 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

Tgt Ion: 43 Resp: 42246
Ion Ratio Lower Upper
43 100
58 5.5 29.7 44.5#





#56

Ethyl methacrylate

Concen: 15.338 ug/l

RT: 8.65 min Scan# 813

Delta R.T. -0.00 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

Instrument :
MSVOA_F
ClientSampled :

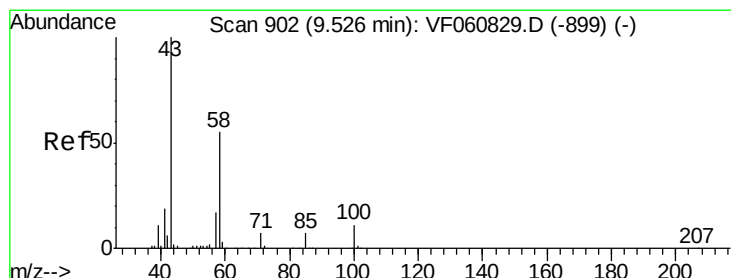
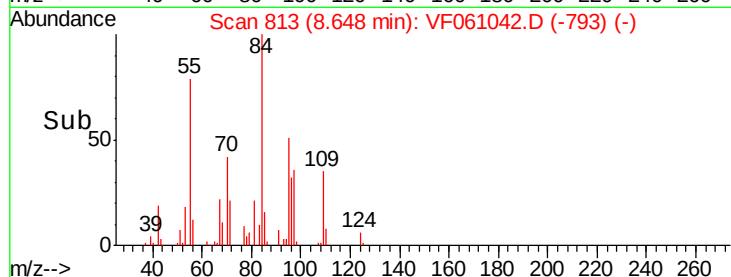
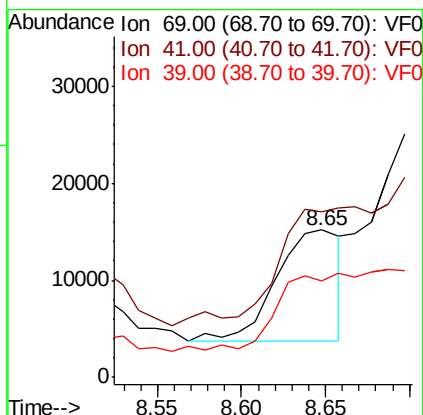
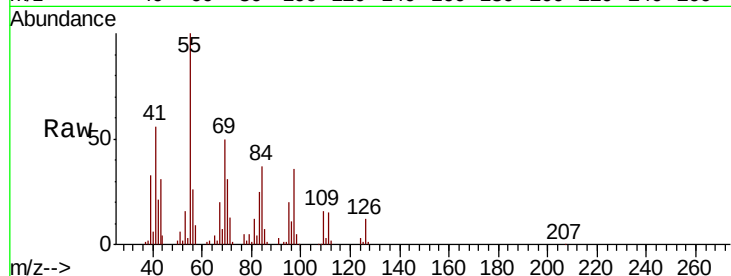
Tot Ion: 69 Resp: 31097

Ion Ratio Lower Upper

69 100

41 112.0 62.6 94.0#

39 65.6 37.8 56.6#



#59

2-Hexanone

Concen: 20.671 ug/l

RT: 9.54 min Scan# 903

Delta R.T. 0.01 min

Lab File: VF061042.D

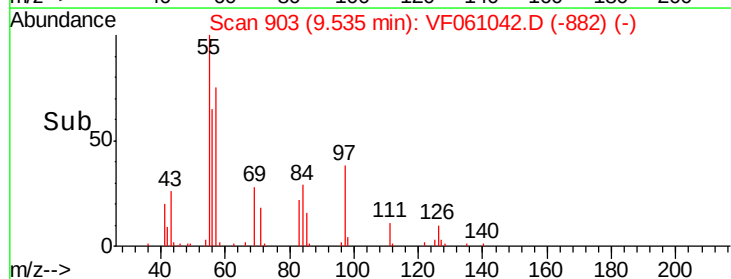
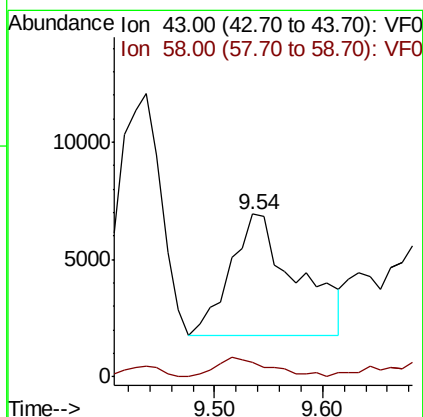
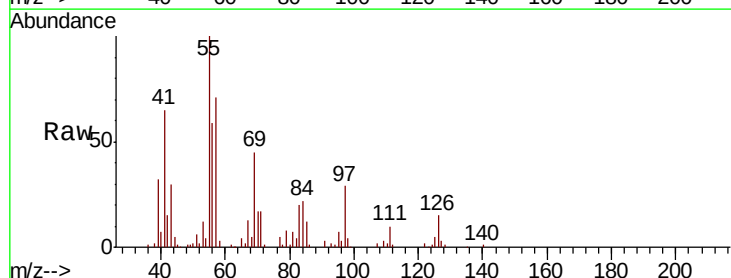
Acq: 17 Dec 2018 16:00

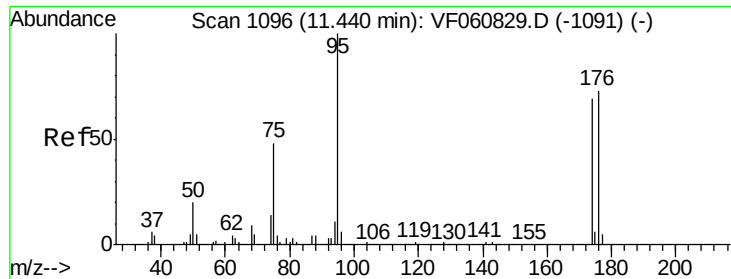
Tgt Ion: 43 Resp: 21936

Ion Ratio Lower Upper

43 100

58 8.6 25.6 76.6#

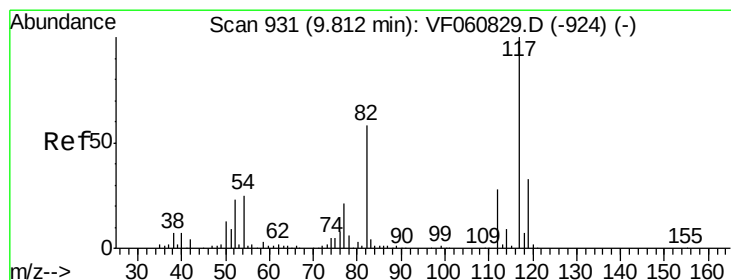
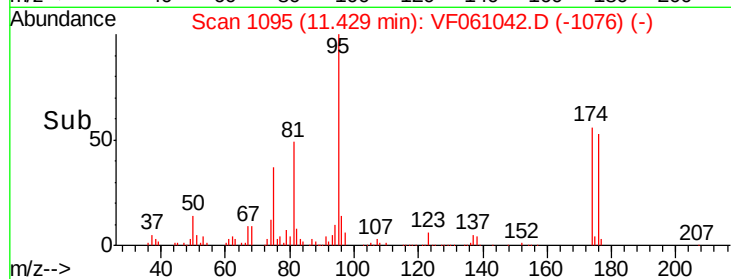
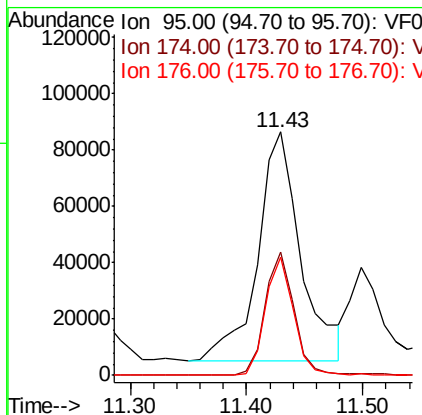
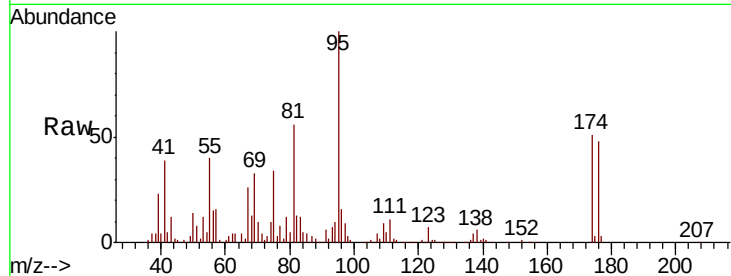




#62
4-Bromofluorobenzene
Concen: 53.816 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

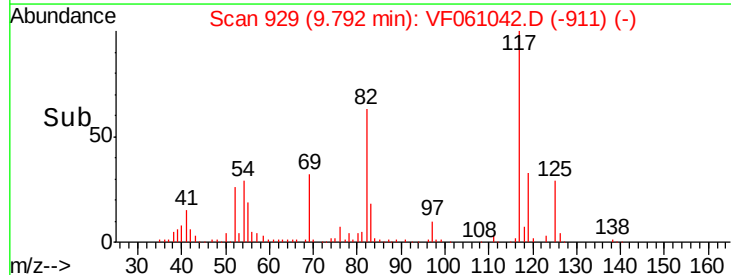
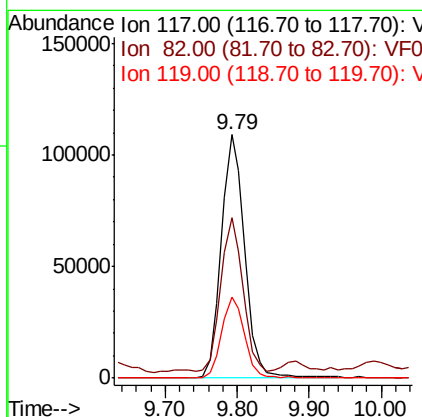
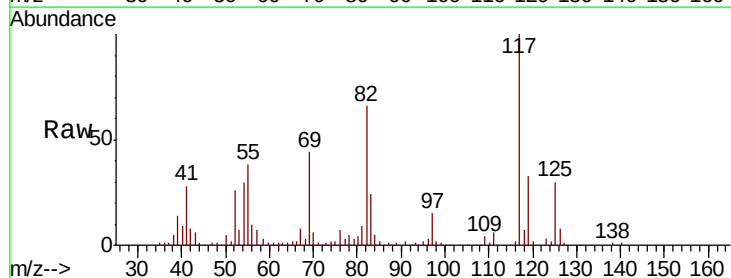
Instrument :
MSVOA_F
ClientSampleId :

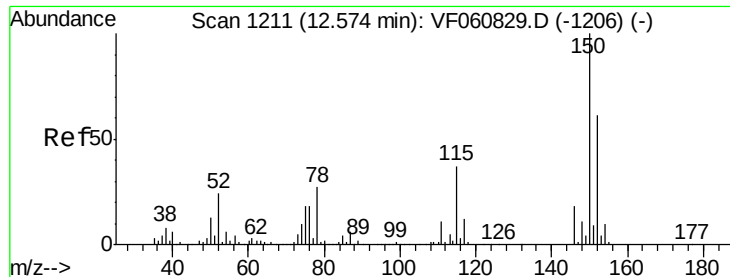
Tot Ion	Ratio	Lower	Upper
95	100		
174	50.9	0.0	138.2
176	48.4	0.0	146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.7	46.6	69.8
119	33.3	26.4	39.6



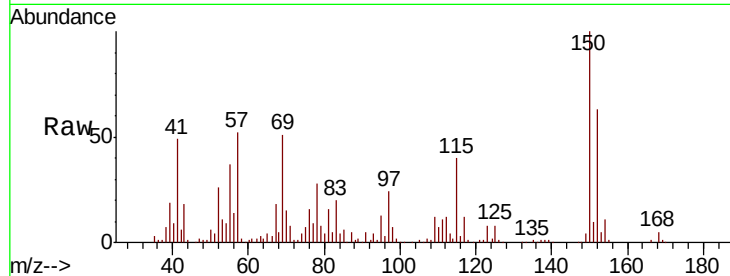


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. -0.01 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	63.5	30.1	90.5
150	160.0	0.0	327.6

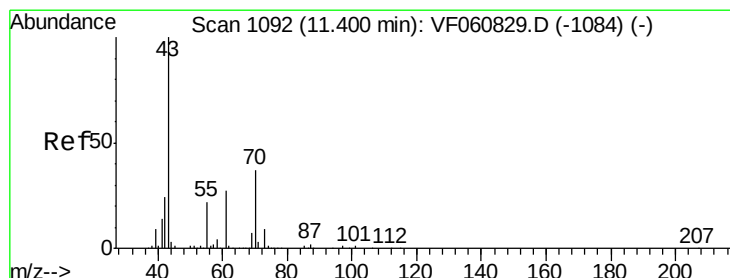
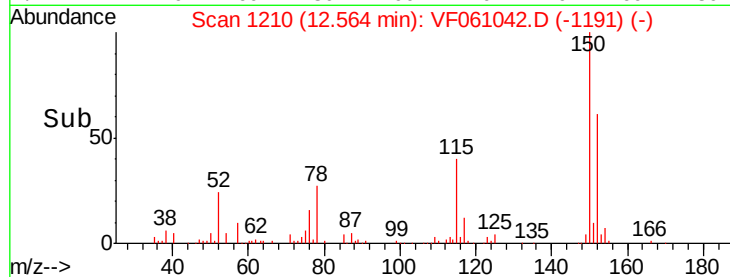
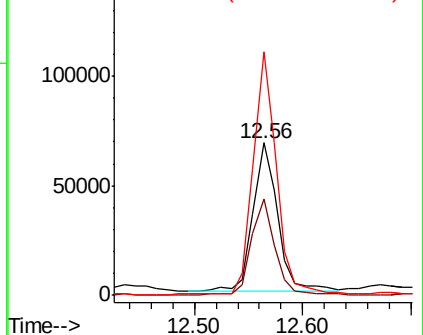


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

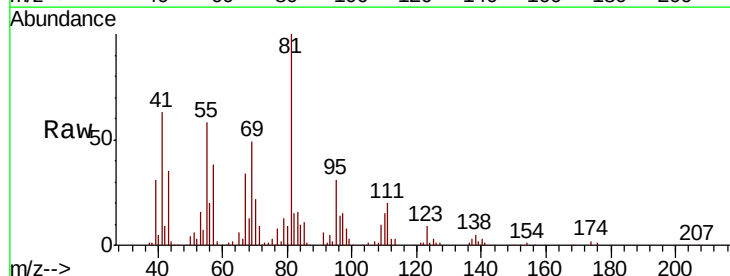
Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate
Concen: 24.164 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.00 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

Tgt Ion	Ratio	Lower	Upper
43	100		
70	63.6	29.6	44.4#
55	167.0	17.2	25.8#
61	0.8	21.8	32.6#



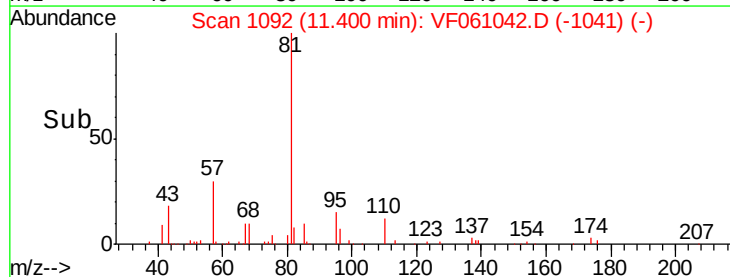
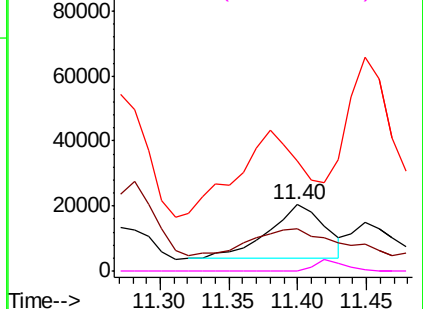
Abundance

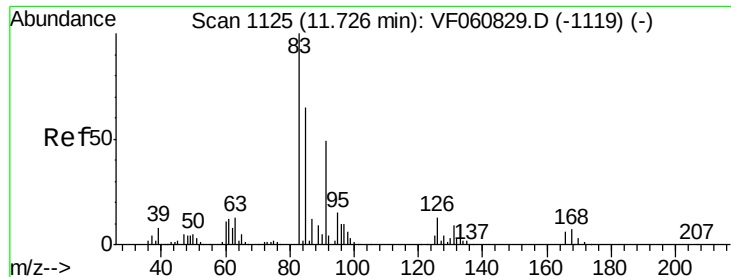
Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 51.905 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.04 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

Instrument :

MSVOA_F

ClientSampled :

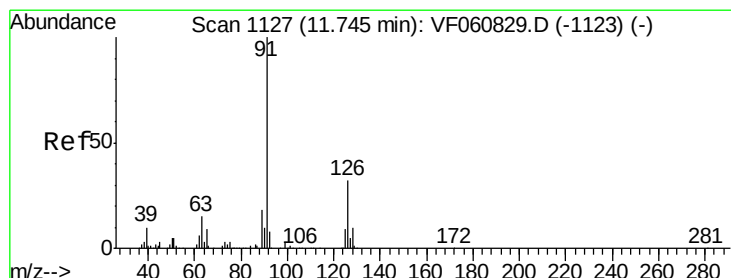
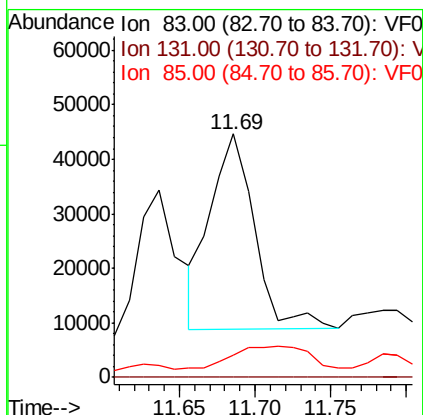
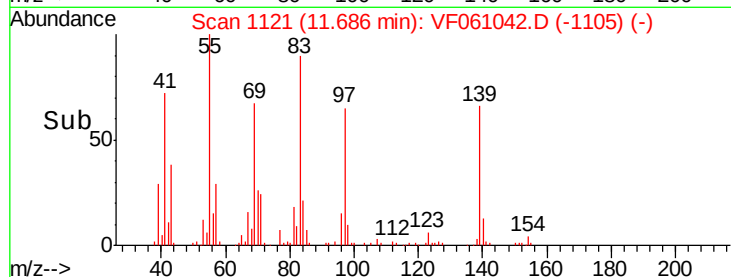
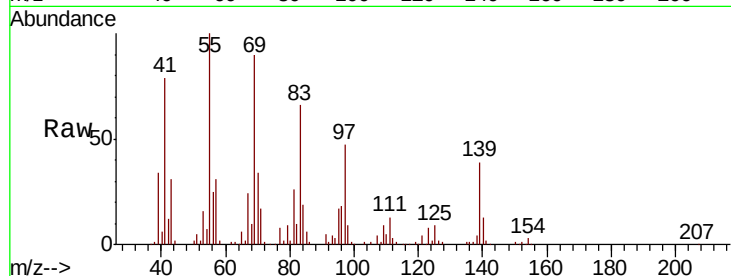
Tot Ion: 83 Resp: 73009

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

85 8.9 32.6 97.8#



#79

2-Chlorotoluene

Concen: 2.165 ug/l

RT: 11.74 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VF061042.D

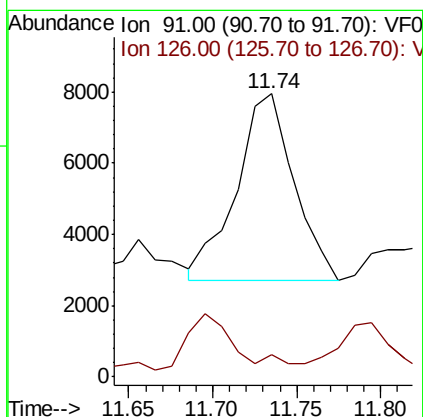
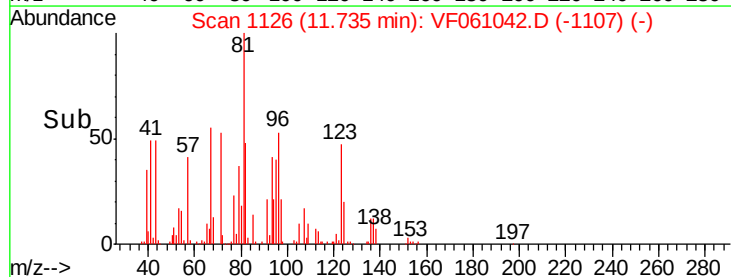
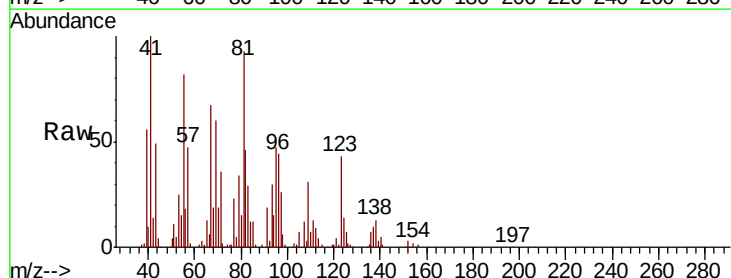
Acq: 17 Dec 2018 16:00

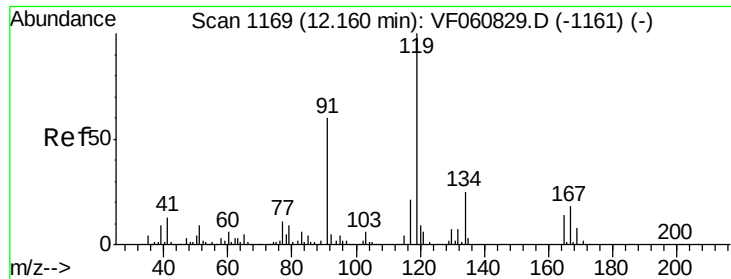
Tgt Ion: 91 Resp: 12422

Ion Ratio Lower Upper

91 100

126 8.0 15.9 47.6#

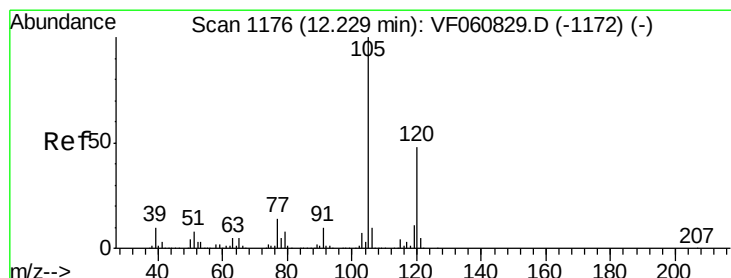
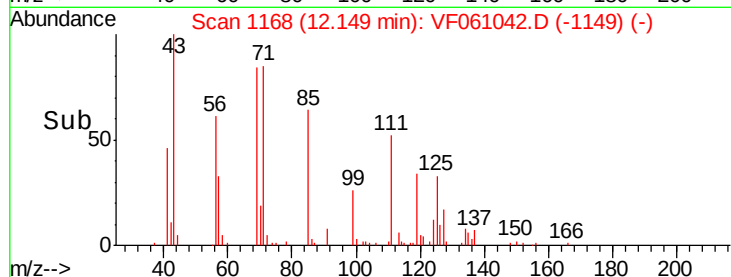
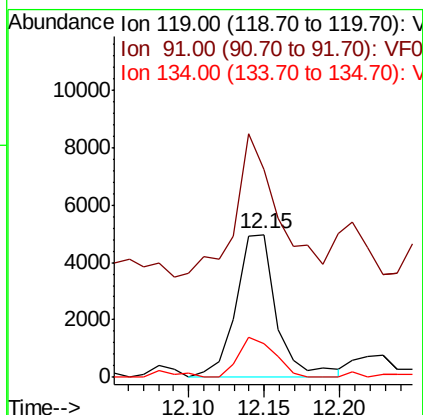
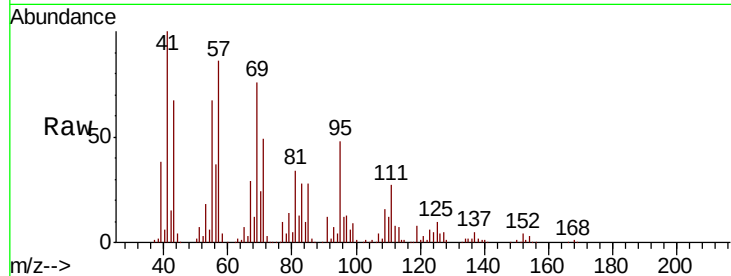




#83
tert-Butylbenzene
Concen: 1.321 ug/l
RT: 12.15 min Scan# 1168
Delta R.T. -0.01 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

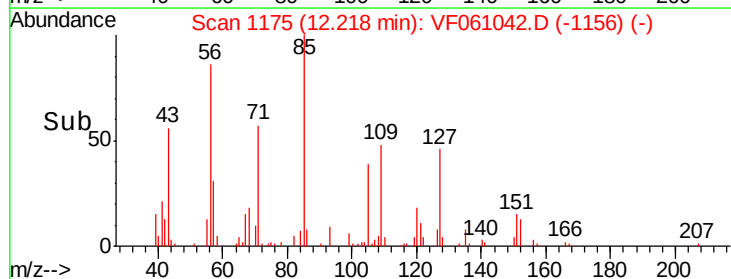
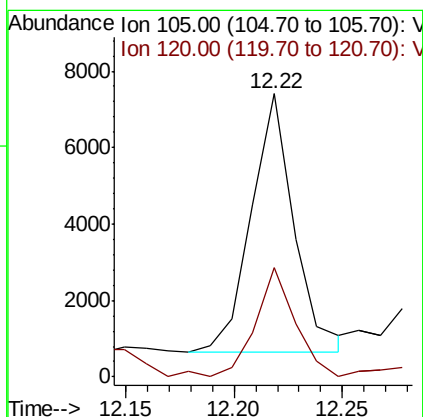
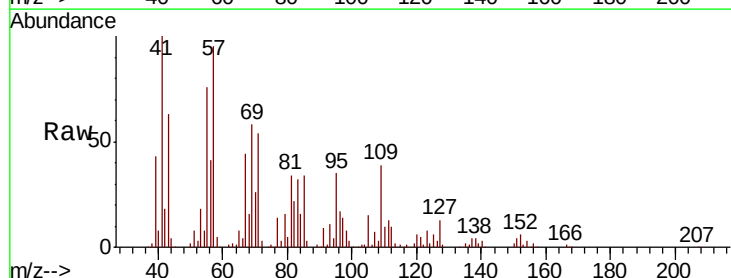
Instrument :
MSVOA_F
ClientSampleId :

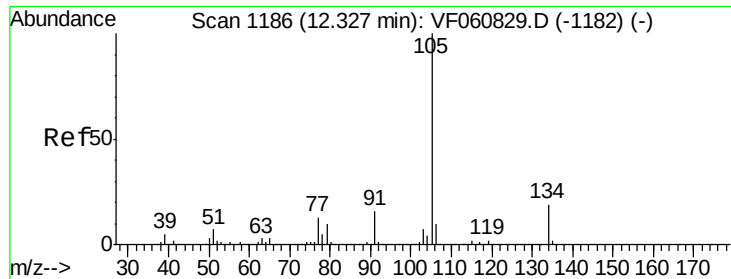
Tot Ion:119 Resp: 9333
Ion Ratio Lower Upper
119 100
91 145.6 30.1 90.3#
134 23.6 12.6 37.8



#84
1,2,4-Trimethylbenzene
Concen: 1.345 ug/l
RT: 12.22 min Scan# 1175
Delta R.T. -0.01 min
Lab File: VF061042.D
Acq: 17 Dec 2018 16:00

Tgt Ion:105 Resp: 9313
Ion Ratio Lower Upper
105 100
120 38.4 23.8 71.5

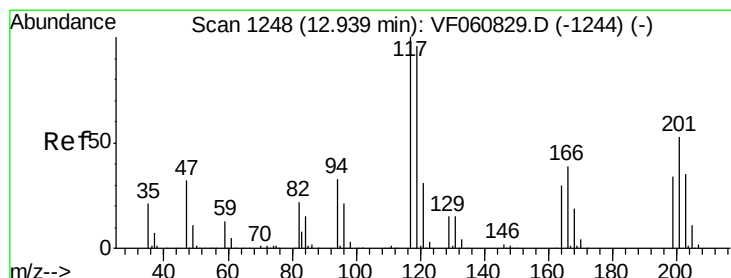
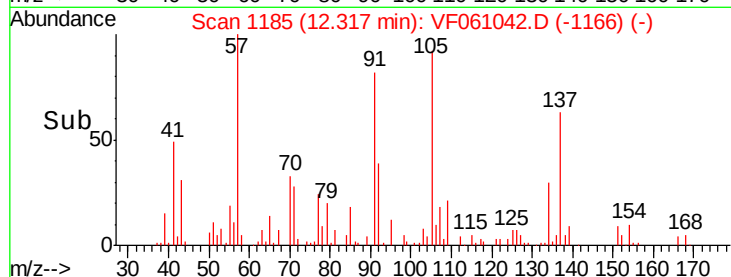
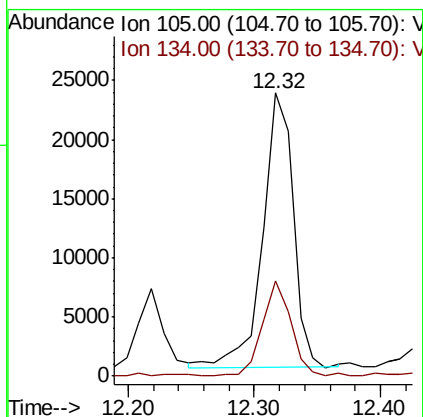
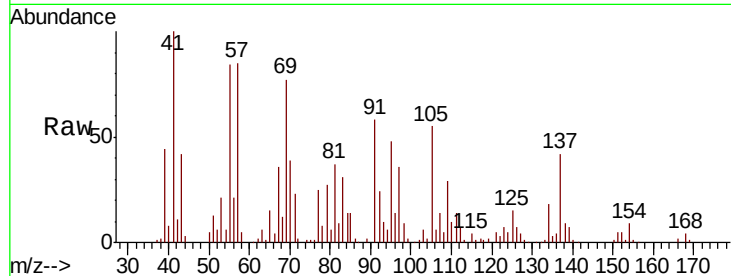




#85
 sec-Butylbenzene
 Concen: 4.033 ug/l
 RT: 12.32 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: VF061042.D
 Acq: 17 Dec 2018 16:00

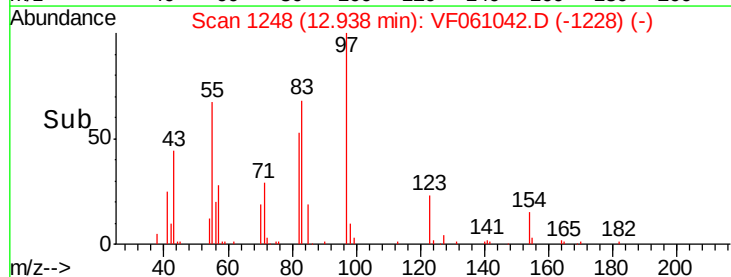
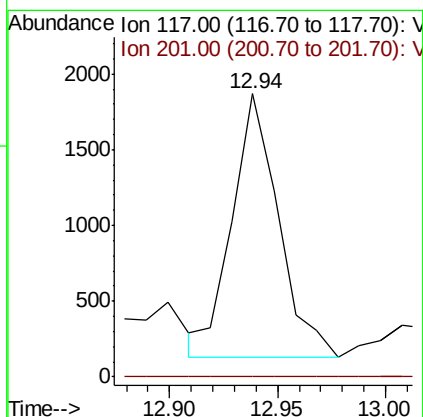
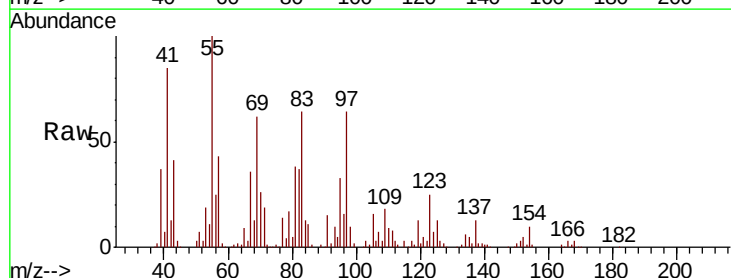
Instrument :
 MSVOA_F
 ClientSampleId :

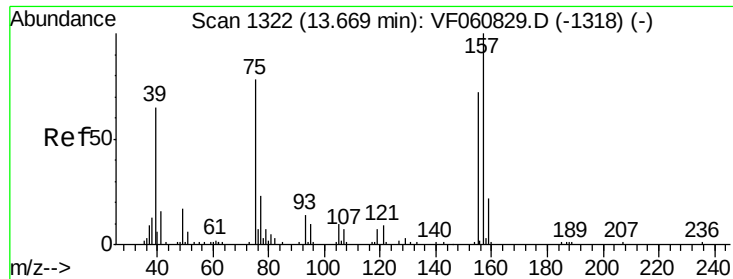
Tot Ion:105 Resp: 39024
 Ion Ratio Lower Upper
 105 100
 134 33.9 9.5 28.5#



#90
 Hexachloroethane
 Concen: 1.327 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061042.D
 Acq: 17 Dec 2018 16:00

Tgt Ion:117 Resp: 2592
 Ion Ratio Lower Upper
 117 100
 201 0.0 26.7 80.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.152 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. -0.02 min

Lab File: VF061042.D

Acq: 17 Dec 2018 16:00

Instrument :

MSVOA_F

ClientSampleId :

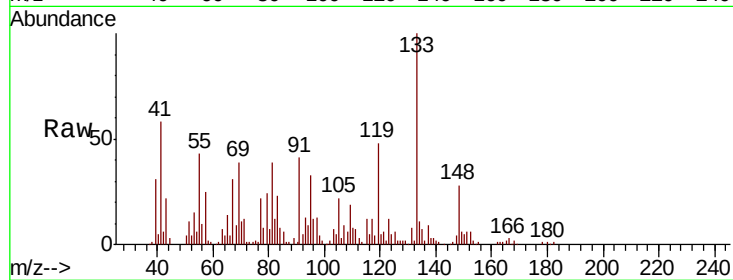
Tot Ion: 75 Resp: 1129

Ion Ratio Lower Upper

75 100

155 47.0 45.6 136.9

157 0.0 63.8 191.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

1000

800

600

400

200

0

13.65

13.70

Time-->

