

Data File : VF061300.D
Acq On : 9 Jan 2019 14:45
Operator : VA/AP
Sample : K1082-05
Misc : 8.32g/5mL/MSVOA-F/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SP-1-3

Quant Time: Jan 10 05:54:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	238679	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.62	114	447345	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	400695	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	188678	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.87	65	147186	55.40	ug/l	0.01
Spiked Amount	50.000		Recovery	=	110.80%	
35) Dibromofluoromethane	4.14	113	174660	51.03	ug/l	0.02
Spiked Amount	50.000		Recovery	=	102.06%	
50) Toluene-d8	7.57	98	462186	45.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.26%	
62) 4-Bromofluorobenzene	11.43	95	203331	45.97	ug/l	0.01
Spiked Amount	50.000		Recovery	=	91.94%	

Target Compounds

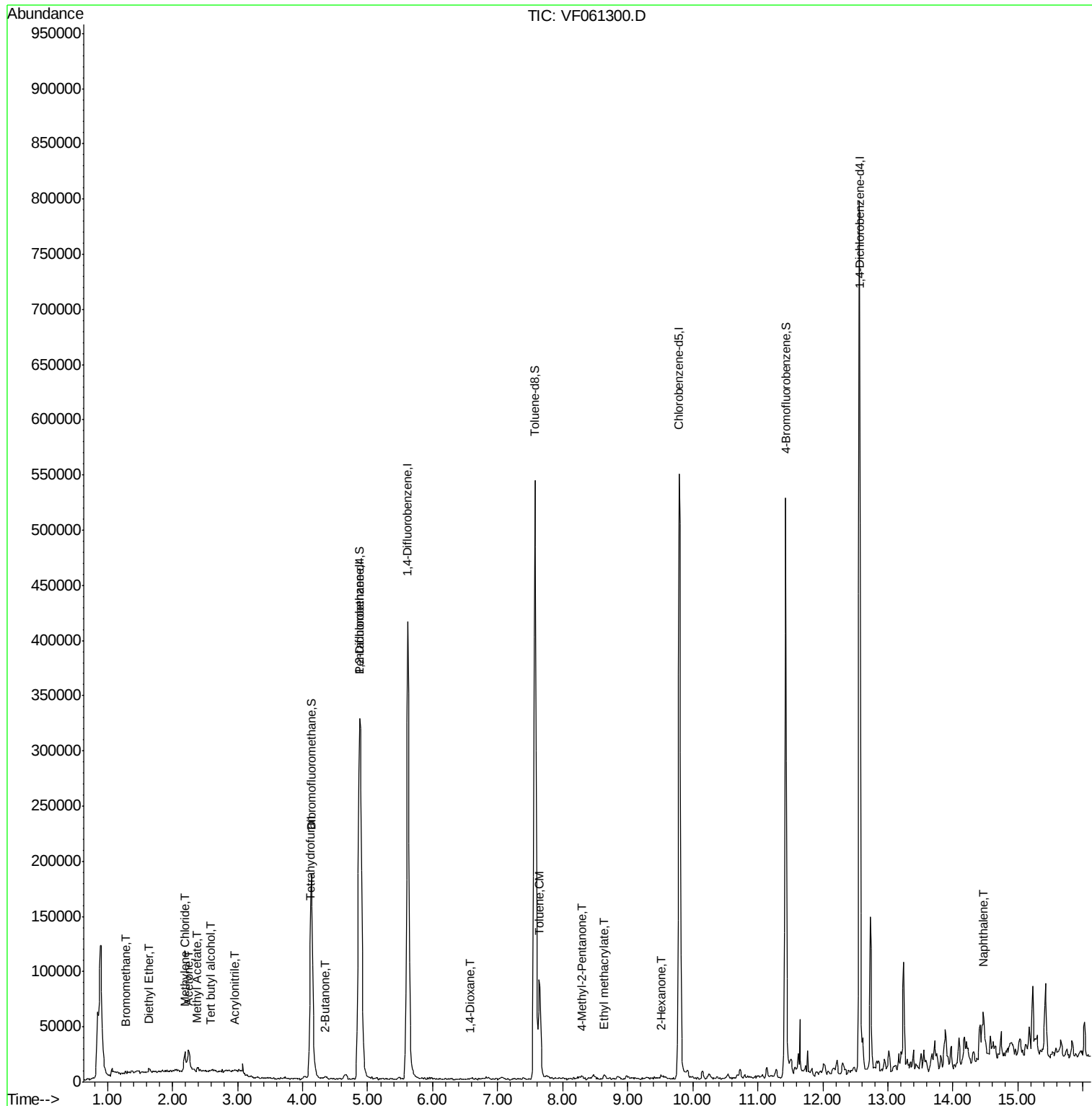
						Qvalue
5) Bromomethane	1.29	94	458	3.055	ug/l #	6
8) Diethyl Ether	1.64	74	1478	1.694	ug/l	71
11) Tert butyl alcohol	2.59	59	268	2.520	ug/l #	58
13) Acrolein	1.91	56	378	Below Cal		87
15) Acrylonitrile	2.94	53	685	1.817	ug/l #	62
16) Acetone	2.25	43	19465	31.497	ug/l	92
18) Methyl Acetate	2.38	43	1458	1.199	ug/l	96
20) Methylene Chloride	2.19	84	7247	2.772	ug/l #	89
25) 2-Butanone	4.37	43	4944	4.971	ug/l #	83
29) Tetrahydrofuran	4.11	42	1570	3.775	ug/l #	53
49) 1,4-Dioxane	6.58	88	61	5.930	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	3941	2.079	ug/l #	84
52) Toluene	7.64	92	45878	5.853	ug/l	99
56) Ethyl methacrylate	8.64	69	2481	1.012	ug/l #	93
59) 2-Hexanone	9.51	43	3434	2.557	ug/l	95
95) Naphthalene	14.47	128	20718	2.595	ug/l #	95

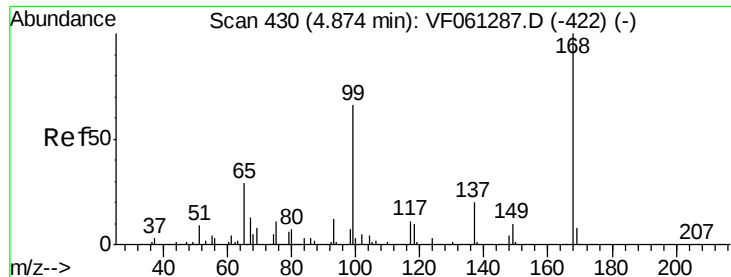
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

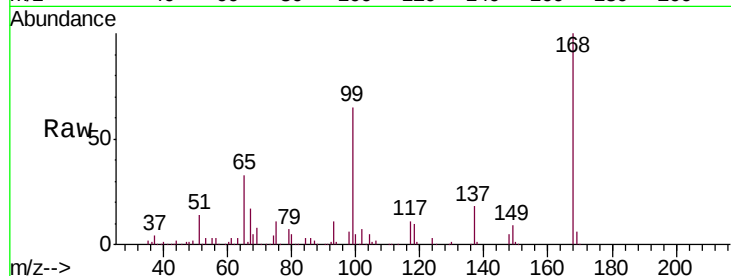
Instrument :
MSVOA_F
ClientSampleId :
SP-1-3

Tgt Ion:168 Resp: 238679

Ion Ratio Lower Upper

168 100

99 64.8 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

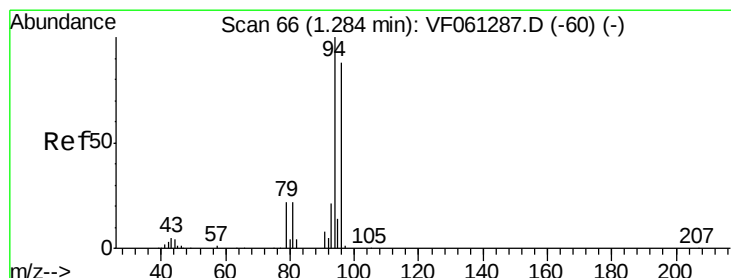
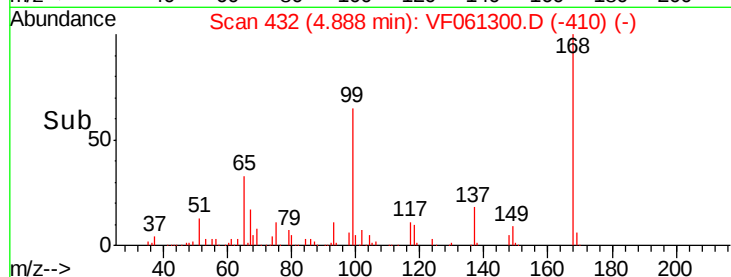
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#5

Bromomethane

Concen: 3.055 ug/l

RT: 1.29 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF061300.D

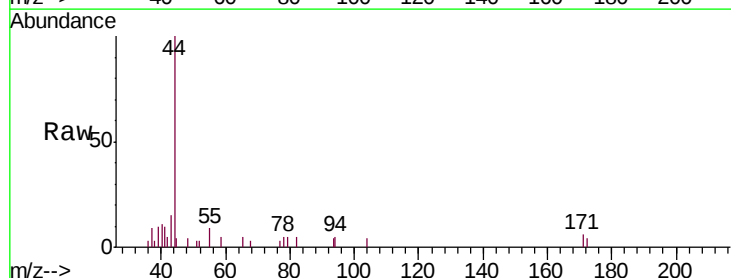
Acq: 9 Jan 2019 14:45

Tgt Ion: 94 Resp: 458

Ion Ratio Lower Upper

94 100

96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

400

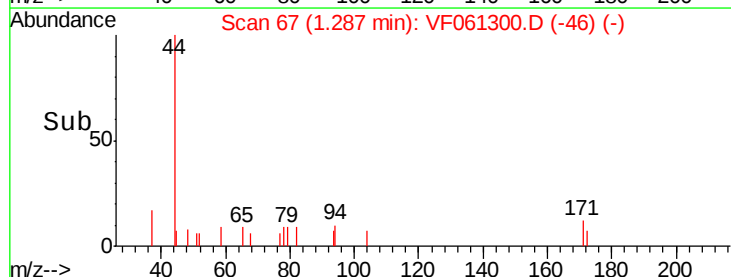
300

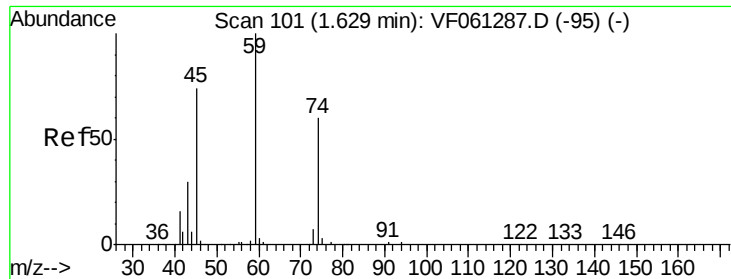
200

100

0

Time--> 1.26 1.28 1.30 1.32





#8

Diethyl Ether

Concen: 1.694 ug/l

RT: 1.64 min Scan# 103

Delta R.T. 0.01 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

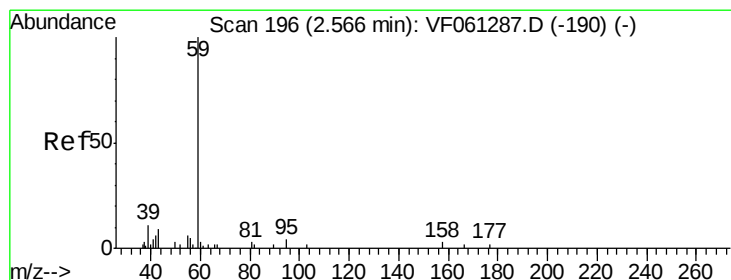
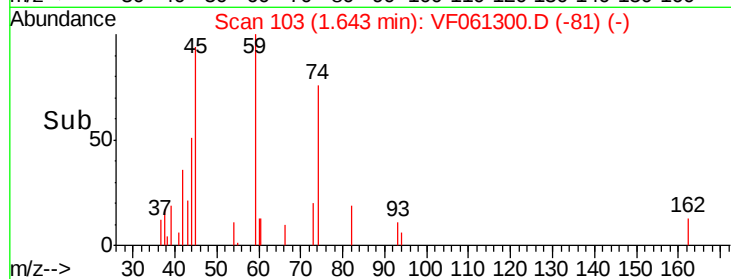
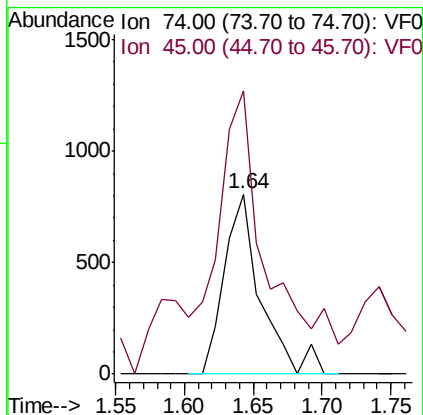
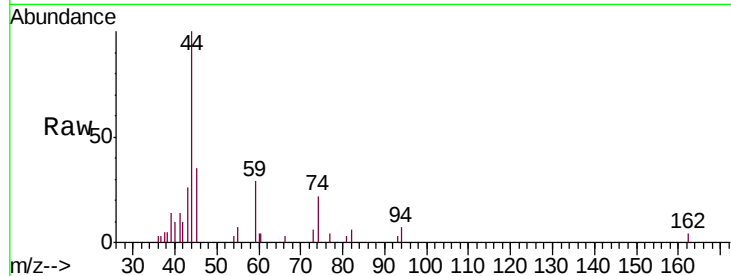
SP-1-3

Tgt Ion: 74 Resp: 1478

Ion Ratio Lower Upper

74 100

45 157.1 62.1 186.3



#11

Tert butyl alcohol

Concen: 2.520 ug/l

RT: 2.59 min Scan# 199

Delta R.T. 0.02 min

Lab File: VF061300.D

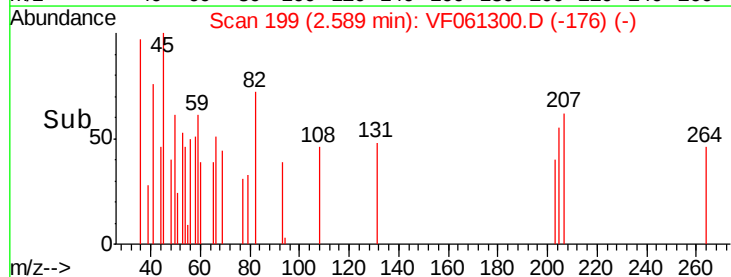
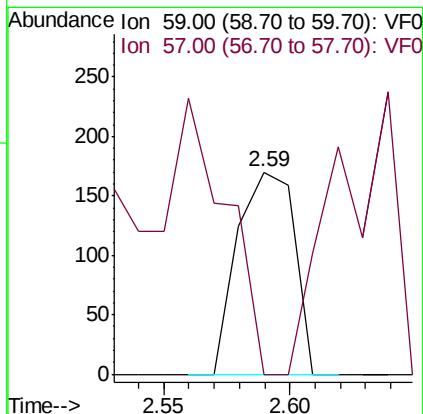
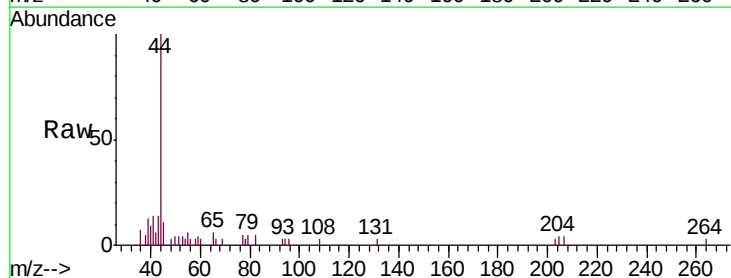
Acq: 9 Jan 2019 14:45

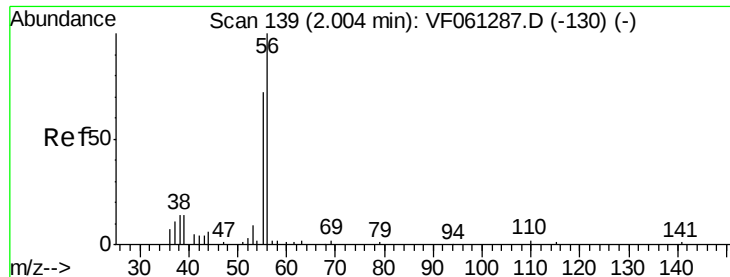
Tgt Ion: 59 Resp: 268

Ion Ratio Lower Upper

59 100

57 0.0 15.1 22.7#





#13

Acrolein

Concen: Below Cal

RT: 1.91 min Scan# 130

Delta R.T. -0.09 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

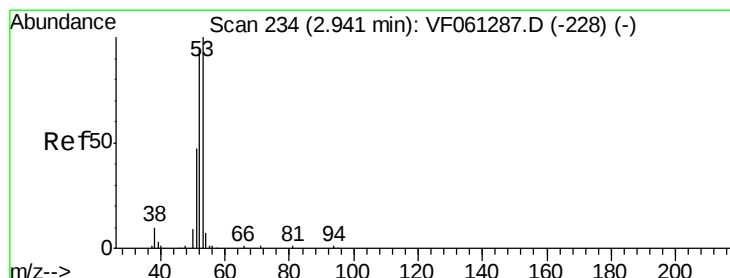
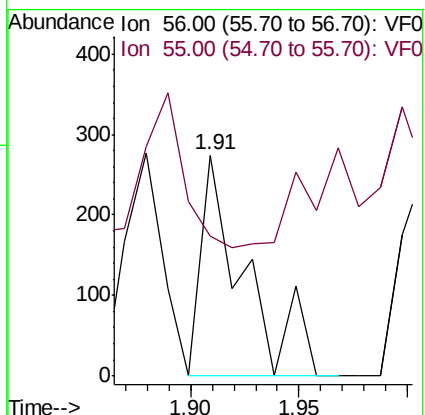
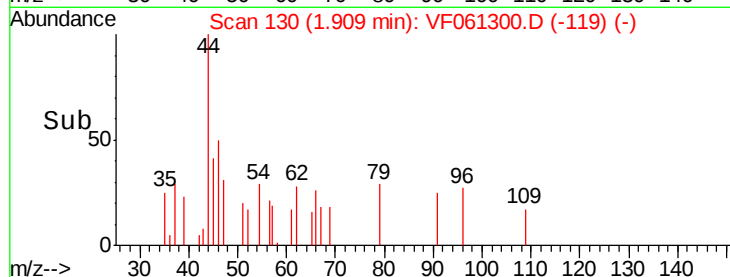
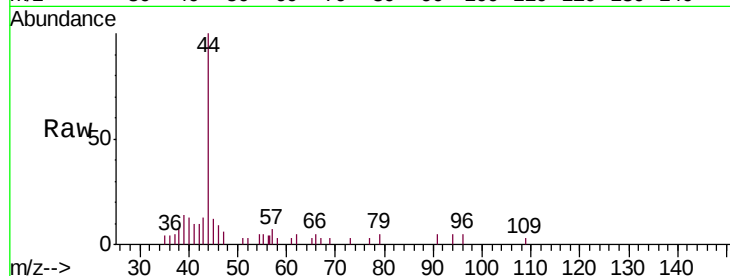
SP-1-3

Tgt Ion: 56 Resp: 378

Ion Ratio Lower Upper

56 100

55 63.1 59.4 89.0



#15

Acrylonitrile

Concen: 1.817 ug/l

RT: 2.94 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

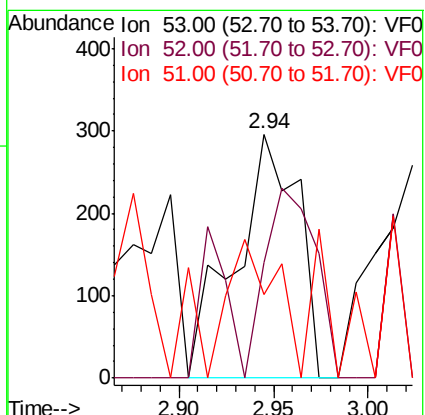
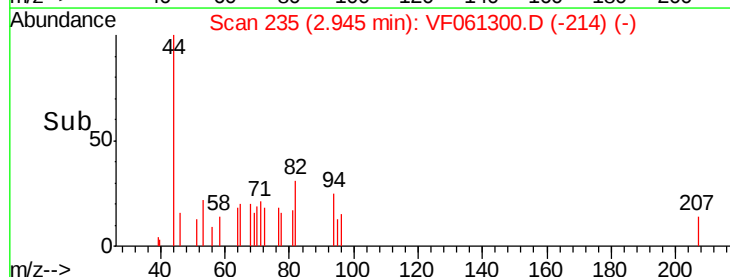
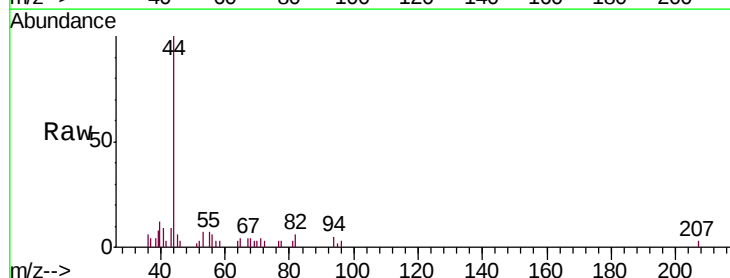
Tgt Ion: 53 Resp: 685

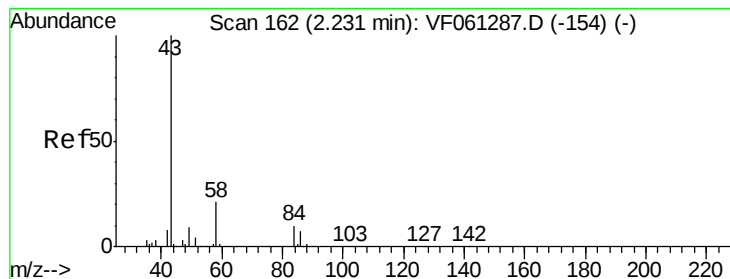
Ion Ratio Lower Upper

53 100

52 47.6 74.6 111.8#

51 34.5 37.8 56.6#





#16

Acetone

Concen: 31.497 ug/l

RT: 2.25 min Scan# 165

Delta R.T. 0.02 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

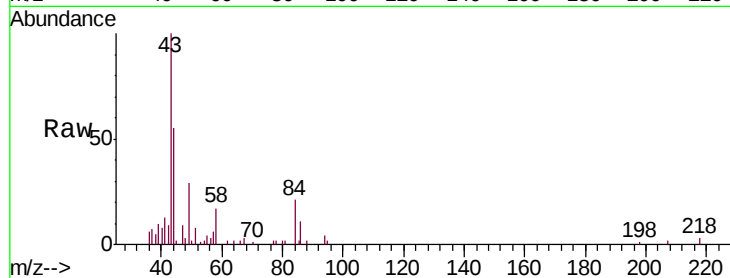
Instrument :
MSVOA_F
ClientSampleId :
SP-1-3

Tgt Ion: 43 Resp: 19465

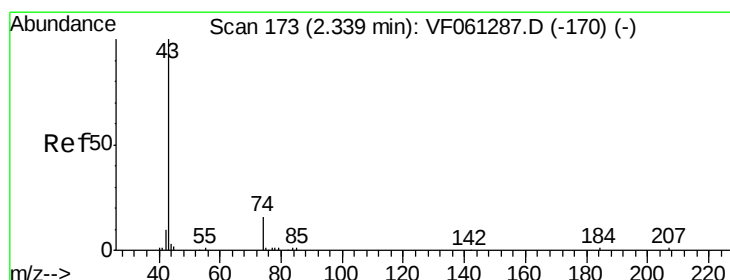
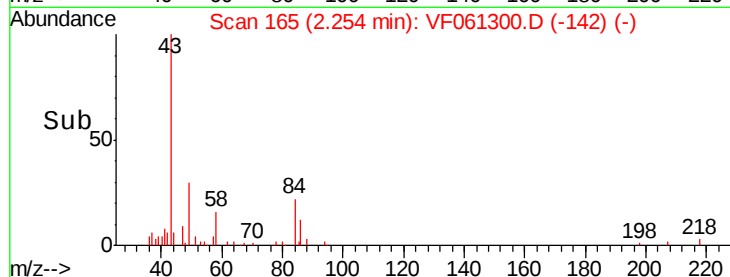
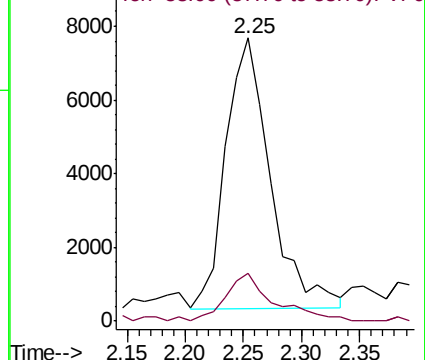
Ion Ratio Lower Upper

43 100

58 17.0 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 1.199 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.04 min

Lab File: VF061300.D

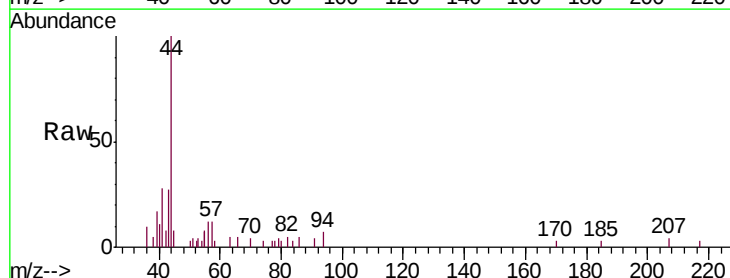
Acq: 9 Jan 2019 14:45

Tgt Ion: 43 Resp: 1458

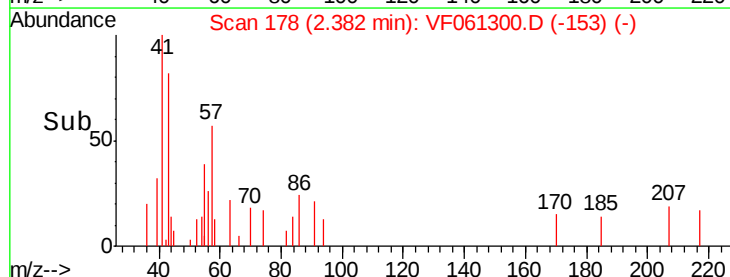
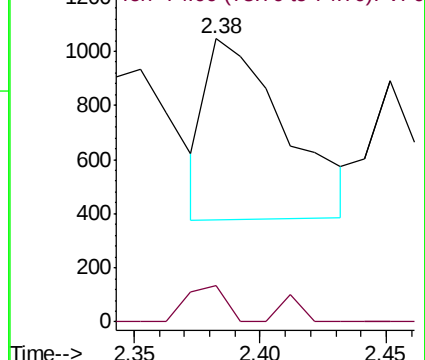
Ion Ratio Lower Upper

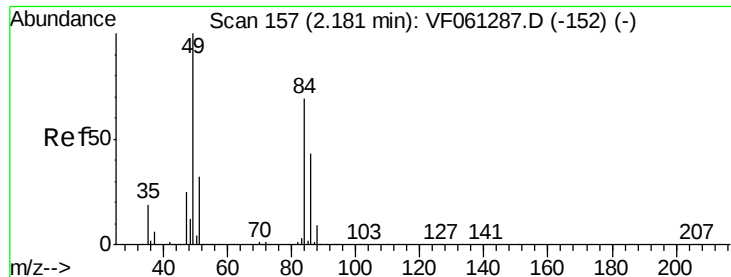
43 100

74 12.8 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 74.00 (73.70 to 74.70): VF0

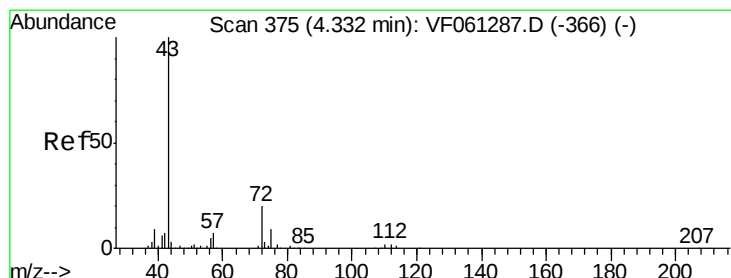
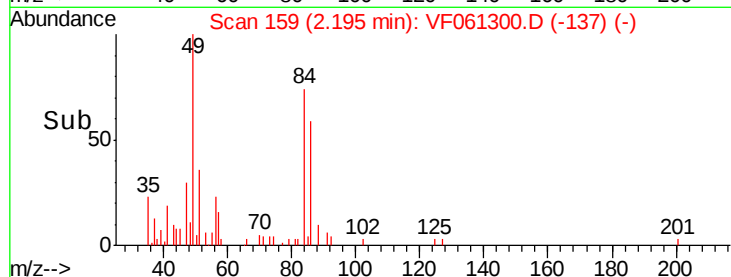
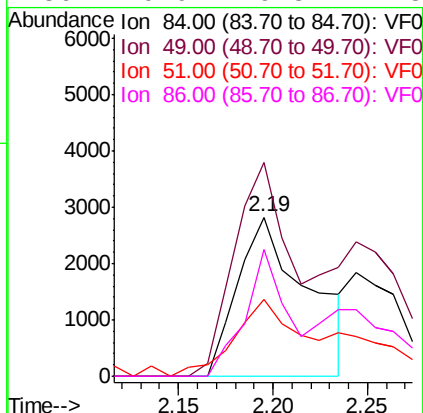
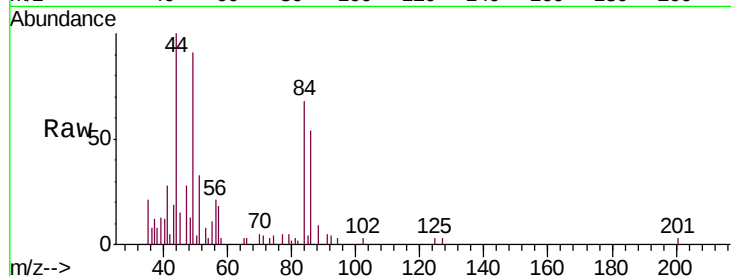




#20
Methylene Chloride
Concen: 2.772 ug/l
RT: 2.19 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF061300.D
Acq: 9 Jan 2019 14:45

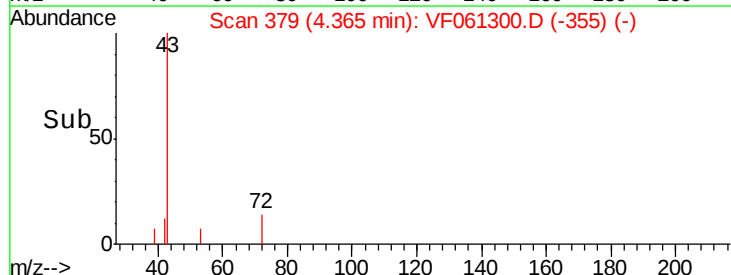
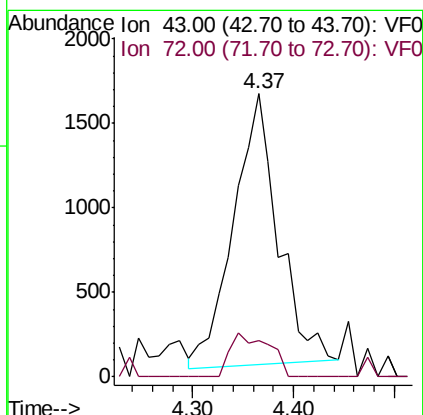
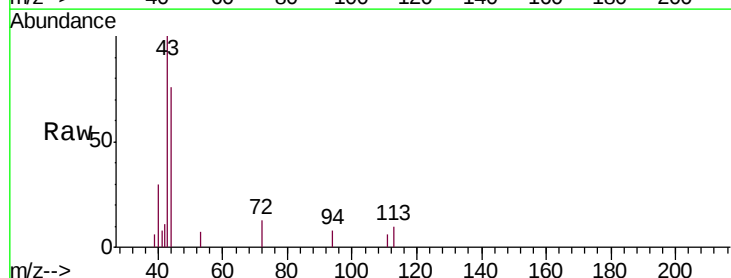
Instrument :
MSVOA_F
ClientSampleId :
SP-1-3

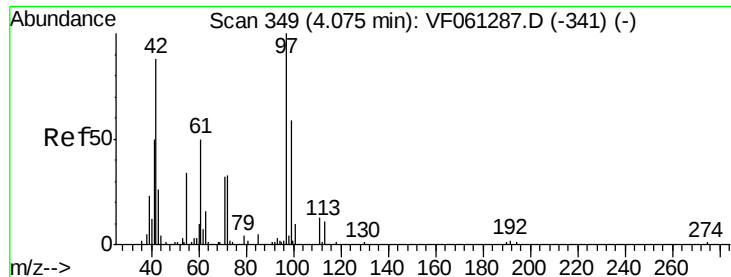
Tgt Ion: 84 Resp: 7247
Ion Ratio Lower Upper
84 100
49 134.5 116.6 175.0
51 48.2 37.7 56.5
86 79.9 49.8 74.8#



#25
2-Butanone
Concen: 4.971 ug/l
RT: 4.37 min Scan# 379
Delta R.T. 0.03 min
Lab File: VF061300.D
Acq: 9 Jan 2019 14:45

Tgt Ion: 43 Resp: 4944
Ion Ratio Lower Upper
43 100
72 12.8 16.5 24.7#





#29

Tetrahydrofuran

Concen: 3.775 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.03 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

SP-1-3

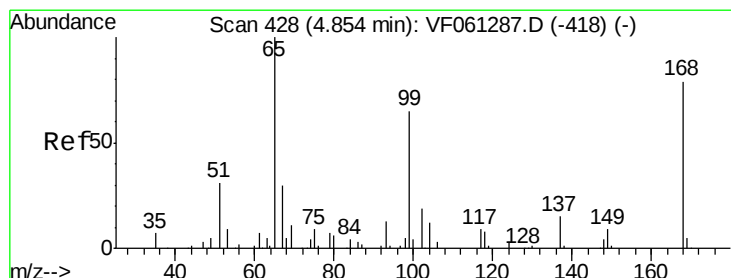
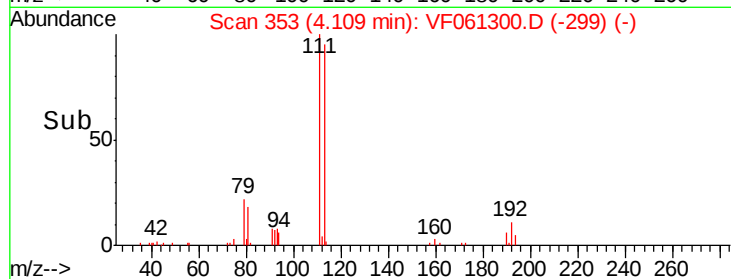
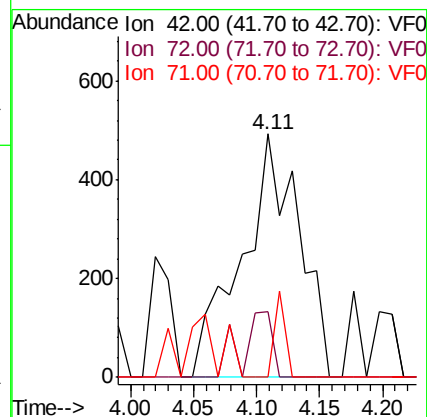
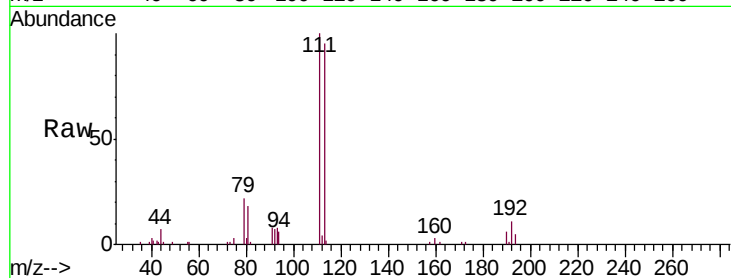
Tgt Ion: 42 Resp: 1570

Ion Ratio Lower Upper

42 100

72 14.0 32.3 48.5#

71 6.6 29.5 44.3#



#33

1,2-Dichloroethane-d4

Concen: 55.403 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061300.D

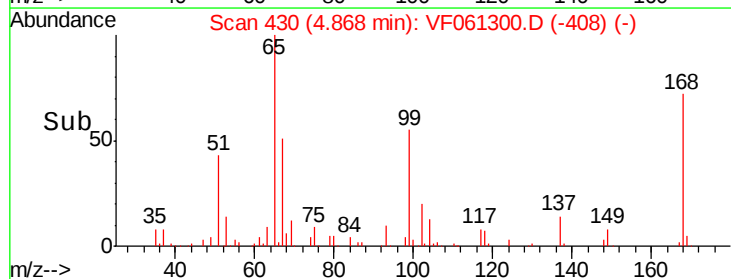
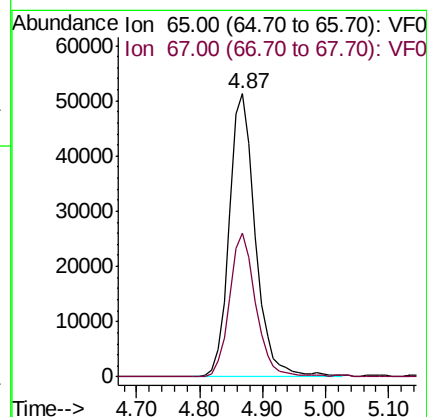
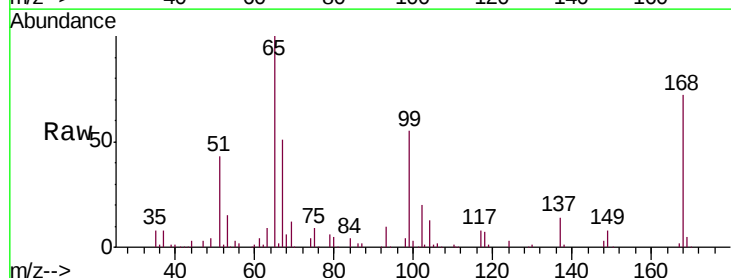
Acq: 9 Jan 2019 14:45

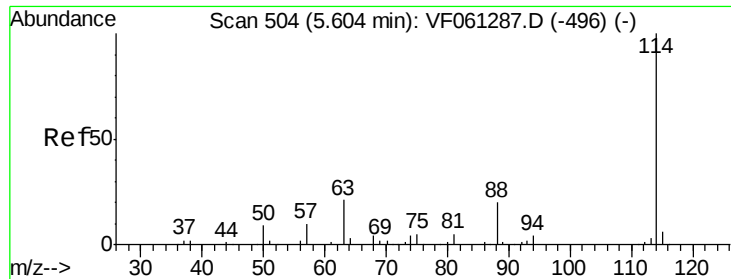
Tgt Ion: 65 Resp: 147186

Ion Ratio Lower Upper

65 100

67 51.0 0.0 98.2

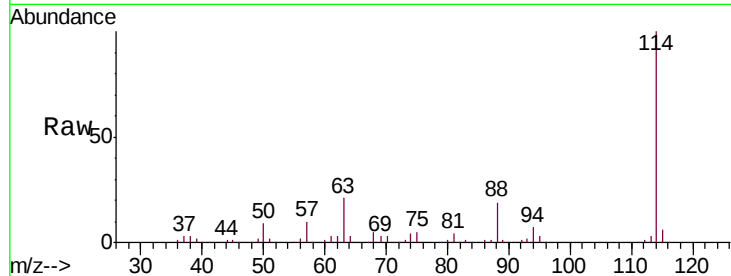




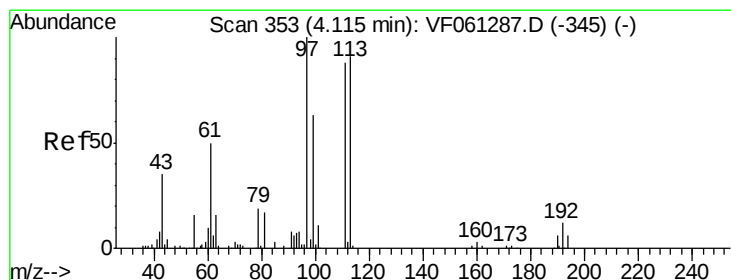
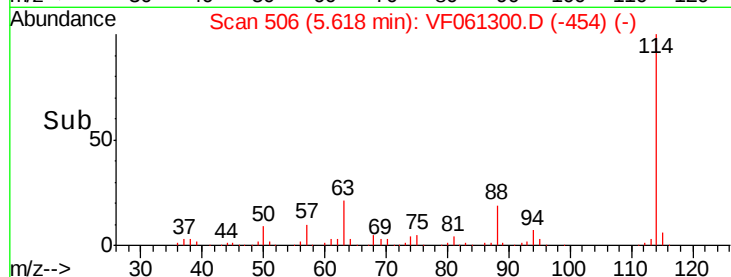
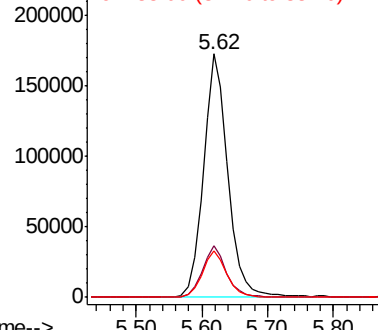
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.62 min Scan# 506
Delta R.T. 0.01 min
Lab File: VF061300.D
Acq: 9 Jan 2019 14:45

Instrument :
MSVOA_F
ClientSampleId :
SP-1-3

Tgt Ion:114 Resp: 447345
Ion Ratio Lower Upper
114 100
63 21.3 0.0 42.8
88 19.2 0.0 40.0

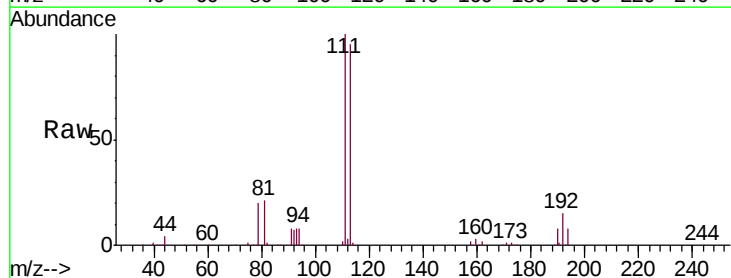


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

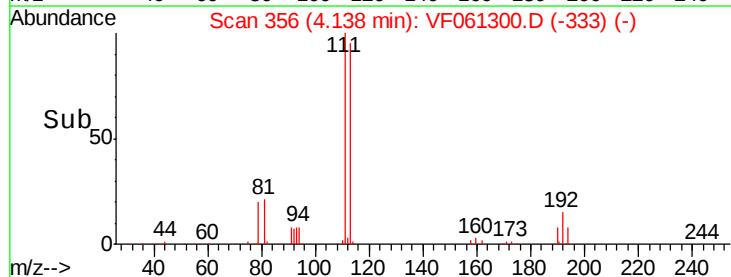
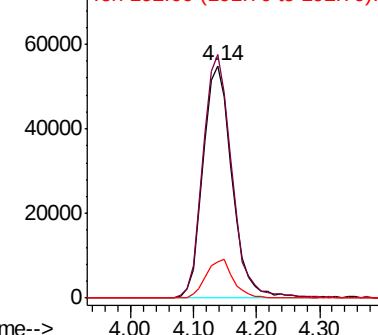


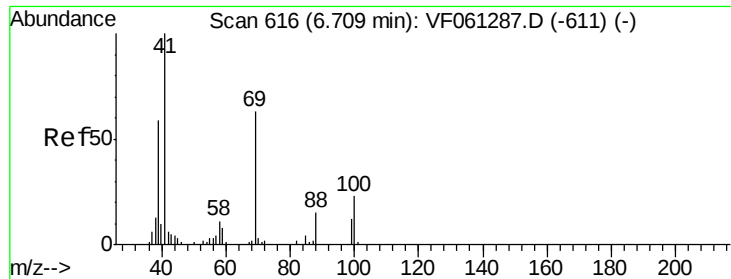
#35
Dibromofluoromethane
Concen: 51.026 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.02 min
Lab File: VF061300.D
Acq: 9 Jan 2019 14:45

Tgt Ion:113 Resp: 174660
Ion Ratio Lower Upper
113 100
111 104.7 78.0 117.0
192 15.8 10.6 16.0



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





#49

1,4-Dioxane

Concen: 5.930 ug/l

RT: 6.58 min Scan# 604

Delta R.T. -0.12 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

SP-1-3

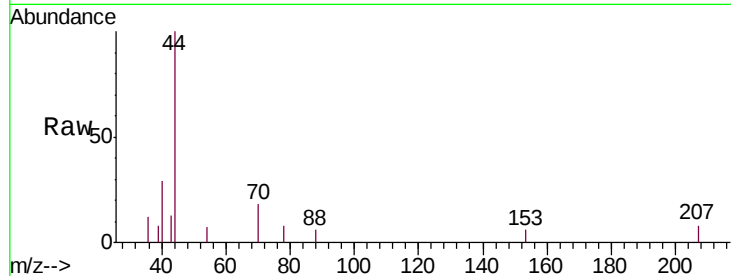
Tgt Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 196.1 38.5 57.7#

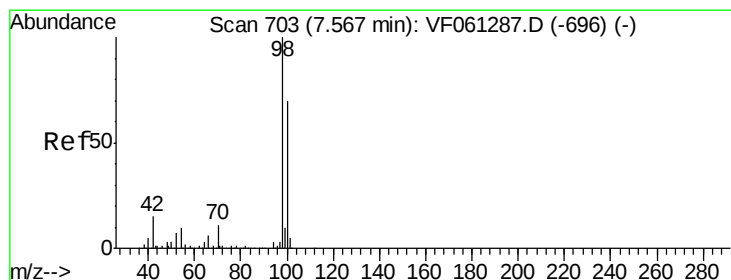
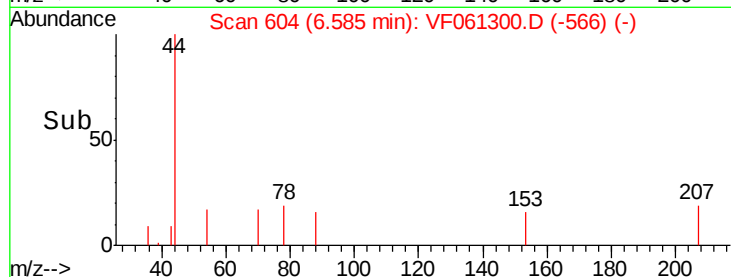
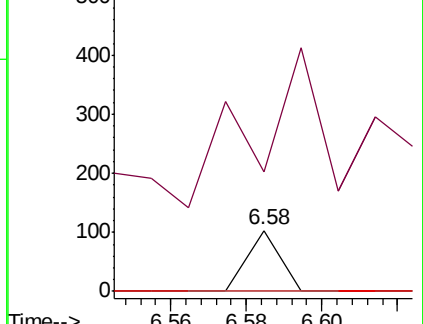
58 0.0 57.0 85.4#



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: 45.629 ug/l

RT: 7.57 min Scan# 704

Delta R.T. 0.00 min

Lab File: VF061300.D

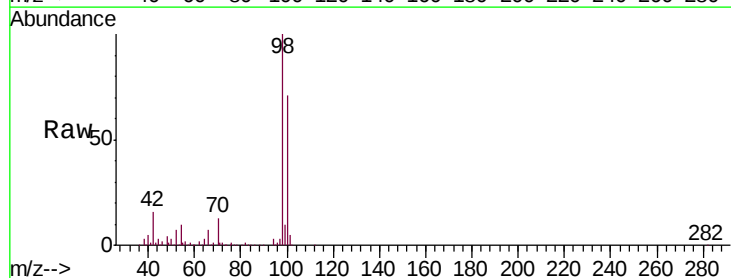
Acq: 9 Jan 2019 14:45

Tgt Ion: 98 Resp: 462186

Ion Ratio Lower Upper

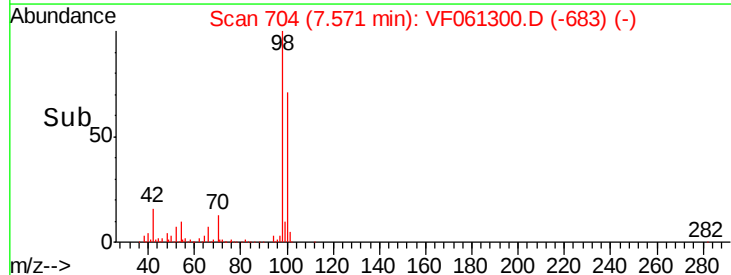
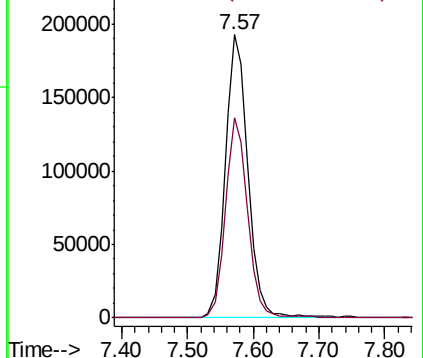
98 100

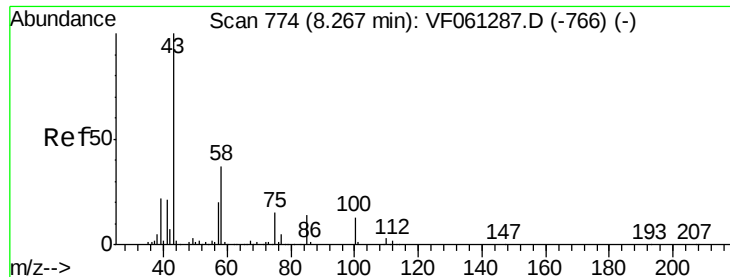
100 70.6 55.6 83.4



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: 2.079 ug/l

RT: 8.28 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

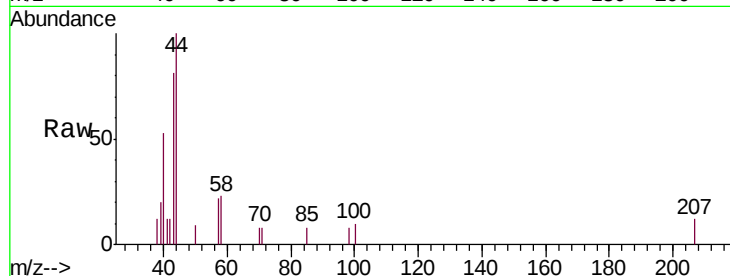
SP-1-3

Tgt Ion: 43 Resp: 3941

Ion Ratio Lower Upper

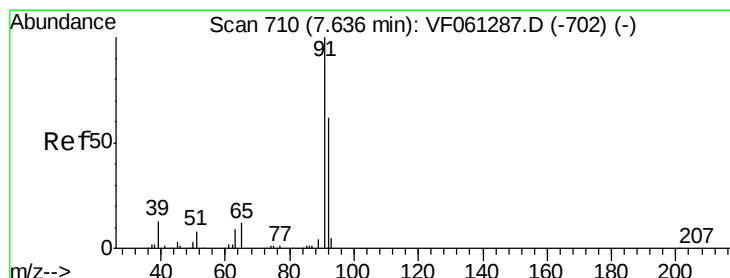
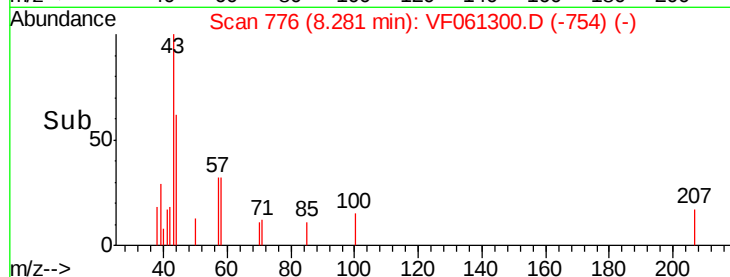
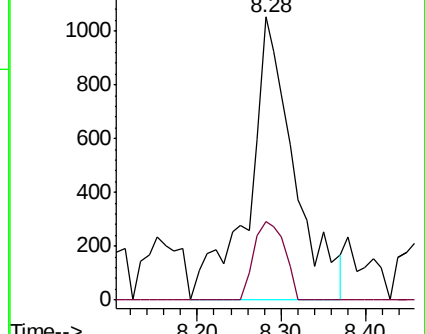
43 100

58 27.7 29.6 44.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 5.853 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.00 min

Lab File: VF061300.D

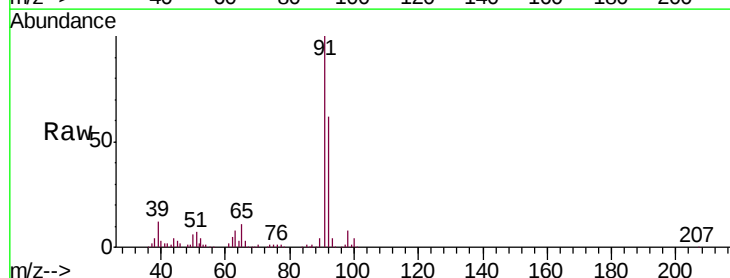
Acq: 9 Jan 2019 14:45

Tgt Ion: 92 Resp: 45878

Ion Ratio Lower Upper

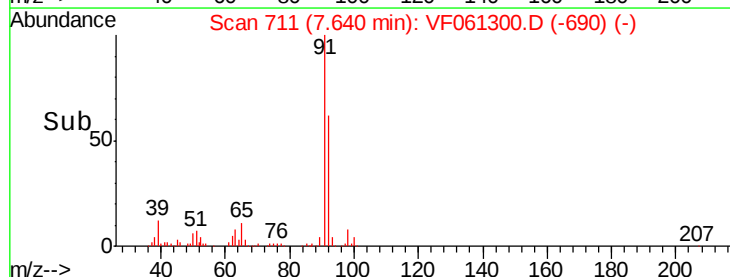
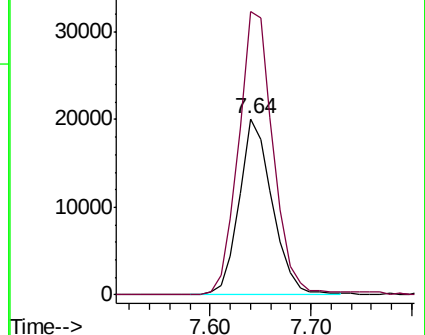
92 100

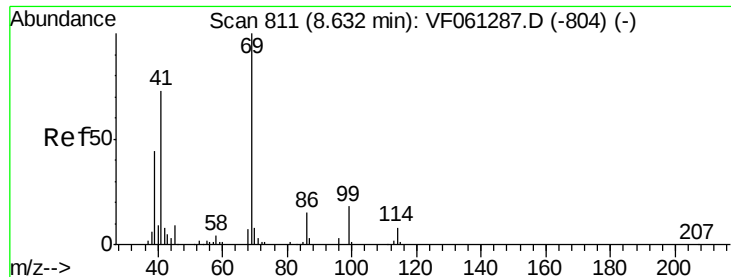
91 160.7 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#56

Ethyl methacrylate

Concen: 1.012 ug/l

RT: 8.64 min Scan# 812

Delta R.T. 0.00 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampled :

SP-1-3

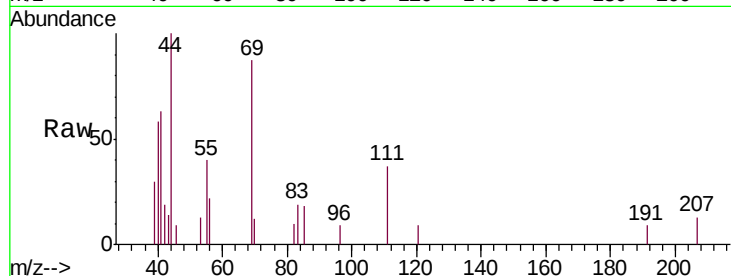
Tgt Ion: 69 Resp: 2481

Ion Ratio Lower Upper

69 100

41 72.6 59.0 88.4

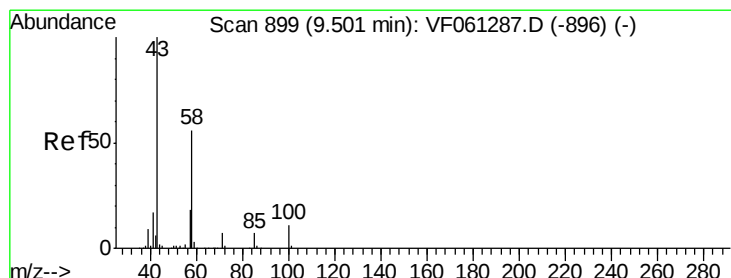
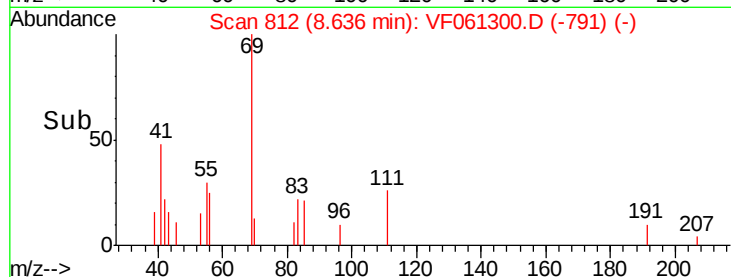
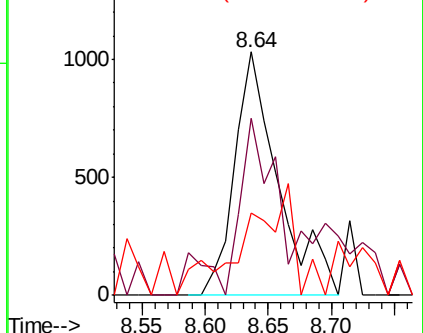
39 33.9 35.3 52.9#



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: 2.557 ug/l

RT: 9.51 min Scan# 901

Delta R.T. 0.01 min

Lab File: VF061300.D

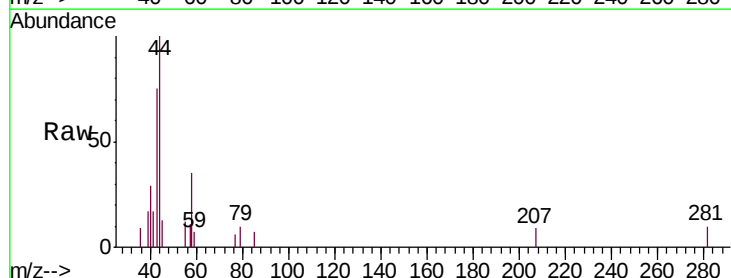
Acq: 9 Jan 2019 14:45

Tgt Ion: 43 Resp: 3434

Ion Ratio Lower Upper

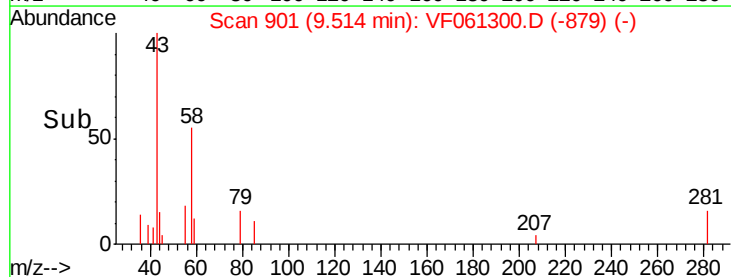
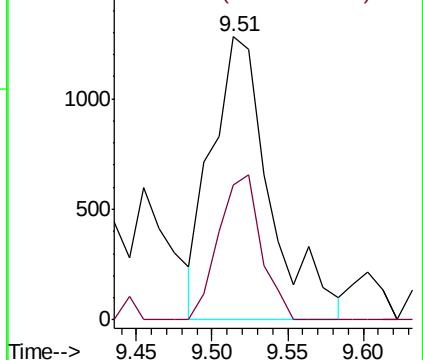
43 100

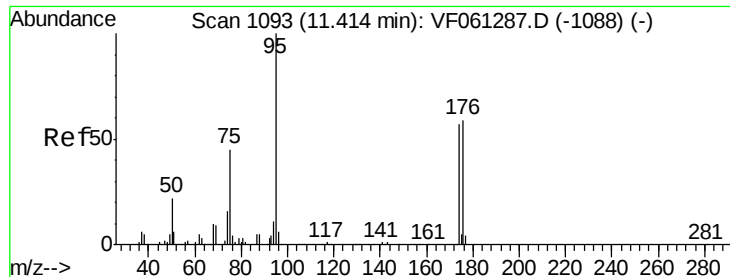
58 47.5 25.6 76.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

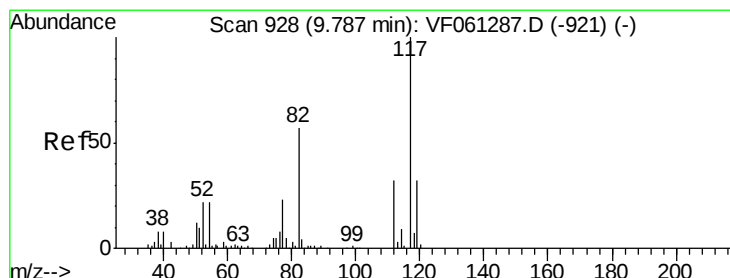
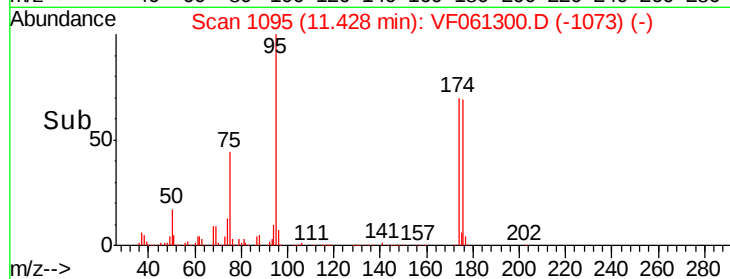
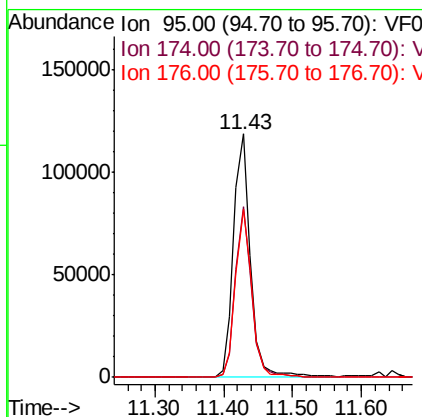
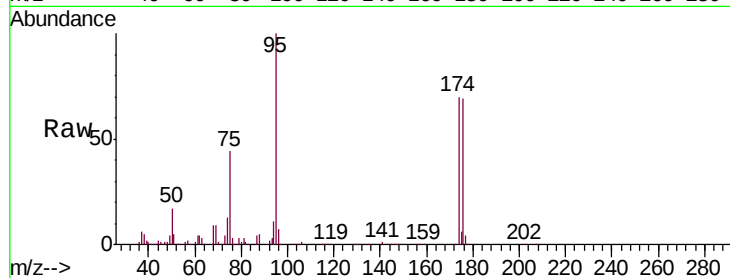




#62
4-Bromofluorobenzene
Concen: 45.971 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. 0.01 min
Lab File: VF061300.D
Acq: 9 Jan 2019 14:45

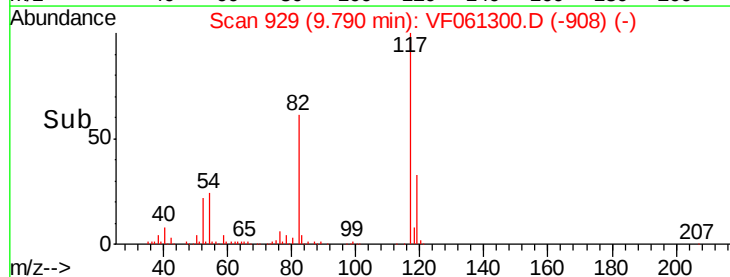
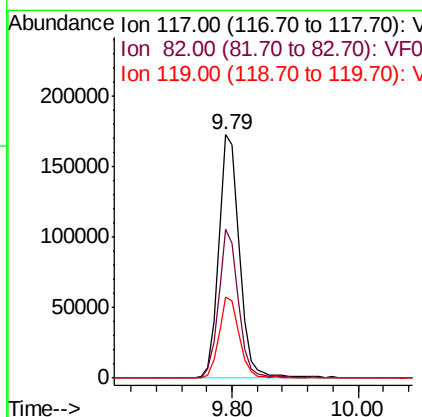
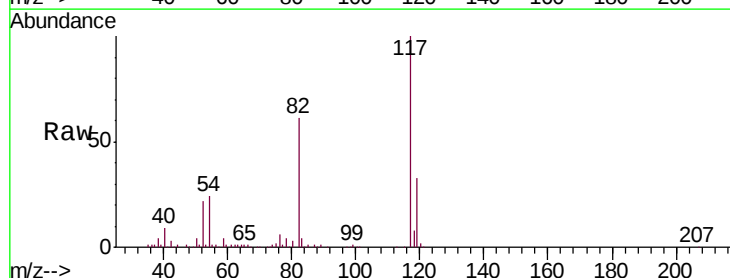
Instrument :
MSVOA_F
ClientSampled :
SP-1-3

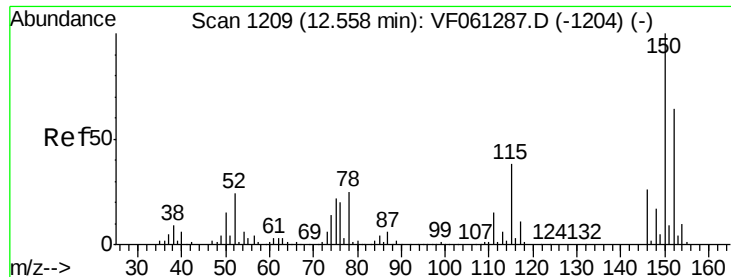
Tgt Ion: 95 Resp: 203331
Ion Ratio Lower Upper
95 100
174 70.0 0.0 114.2
176 69.0 0.0 117.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061300.D
Acq: 9 Jan 2019 14:45

Tgt Ion: 117 Resp: 400695
Ion Ratio Lower Upper
117 100
82 61.1 45.3 67.9
119 33.2 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.00 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Instrument :

MSVOA_F

ClientSampleId :

SP-1-3

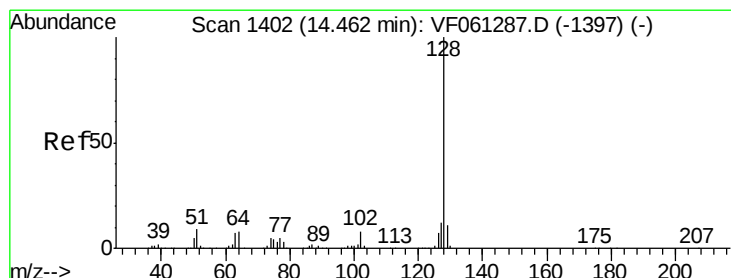
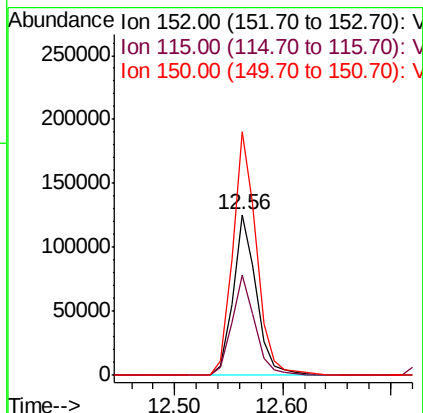
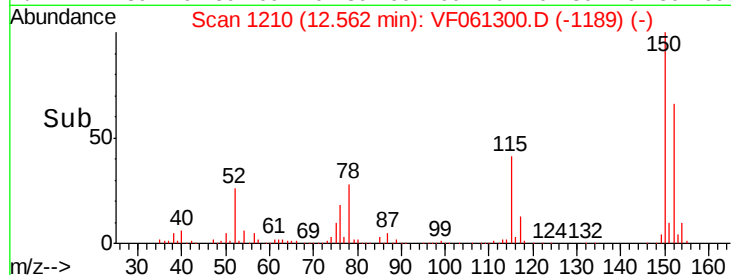
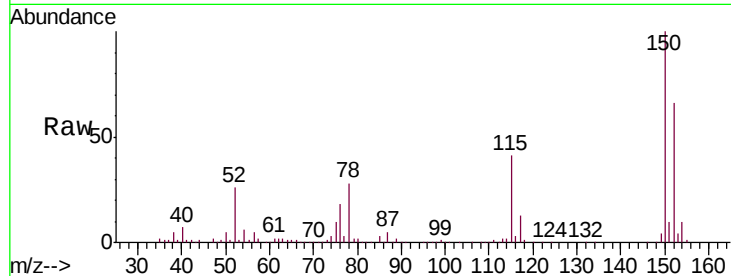
Tgt Ion:152 Resp: 188678

Ion Ratio Lower Upper

152 100

115 62.2 29.6 88.9

150 151.2 0.0 315.4



#95

Naphthalene

Concen: 2.595 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.00 min

Lab File: VF061300.D

Acq: 9 Jan 2019 14:45

Tgt Ion:128 Resp: 20718

Ion Ratio Lower Upper

128 100

127 14.2 9.4 14.0#

129 12.5 8.8 13.2

