

Data File : VF061303.D
Acq On : 9 Jan 2019 16:11
Operator : VA/AP
Sample : K1082-11
Misc : 3.88g/5mL/MSVOA-F/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SP-1-6

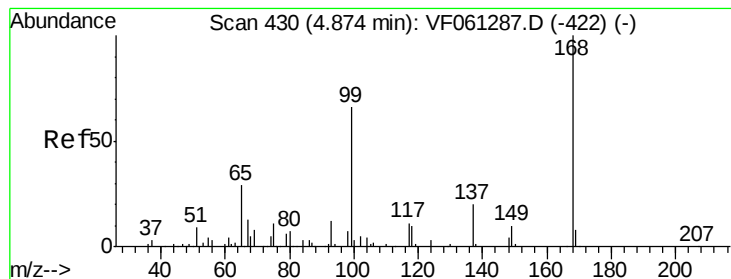
Quant Time: Jan 10 05:55:29 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	62	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.60
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.79
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.56

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.89	65	64	92.74	ug/l	0.04
Spiked Amount	50.000		Recovery	=	185.48%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	195	191.341	ug/l #	70
4) Vinyl Chloride	1.16	62	77	84.595	ug/l #	43
5) Bromomethane	1.29	94	859	Below Cal	#	62
6) Chloroethane	1.36	64	67	150.736	ug/l #	45
7) Trichlorofluoromethane	1.38	101	87	56.382	ug/l #	19
12) 1,1-Dichloroethene	1.80	96	134	205.671	ug/l #	1
13) Acrolein	1.99	56	547	19868.423	ug/l	99
14) Allyl chloride	2.10	41	320	268.709	ug/l #	82
15) Acrylonitrile	2.98	53	237	2419.638	ug/l #	32
16) Acetone	2.25	43	1678	10452.648	ug/l #	55
17) Carbon Disulfide	1.84	76	63	29.275	ug/l #	74
18) Methyl Acetate	2.34	43	877	2776.695	ug/l #	65
19) Methyl tert-butyl Ether	2.50	73	86	69.268	ug/l #	57
20) Methylene Chloride	2.18	84	70	103.070	ug/l #	1
21) trans-1,2-Dichloroethene	2.33	96	178	257.824	ug/l #	1
22) Diisopropyl ether	2.81	45	737	319.886	ug/l #	19
23) Vinyl Acetate	3.20	43	299	443.765	ug/l #	77
24) 1,1-Dichloroethane	2.82	63	146	109.549	ug/l #	87
25) 2-Butanone	4.33	43	238	921.135	ug/l #	56
26) 2,2-Dichloropropane	3.51	77	76	85.337	ug/l #	60
28) Bromochloromethane	3.57	49	115	195.708	ug/l #	13
29) Tetrahydrofuran	4.07	42	276	2554.854	ug/l #	59
30) Chloroform	3.97	83	71	41.967	ug/l #	16
31) Cyclohexane	3.68	56	71	50.781	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

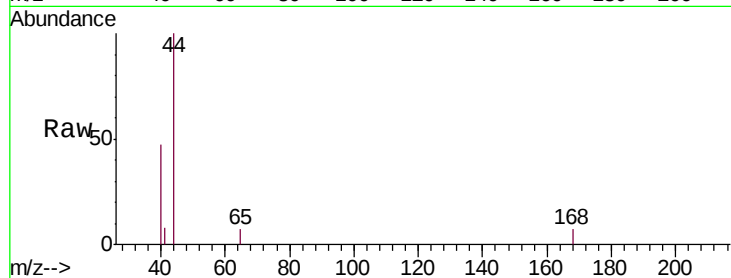
SP-1-6

Tgt Ion:168 Resp: 62

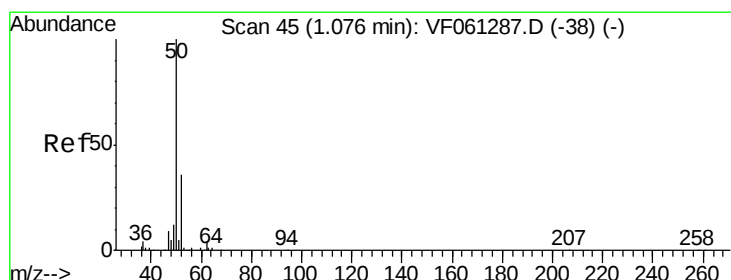
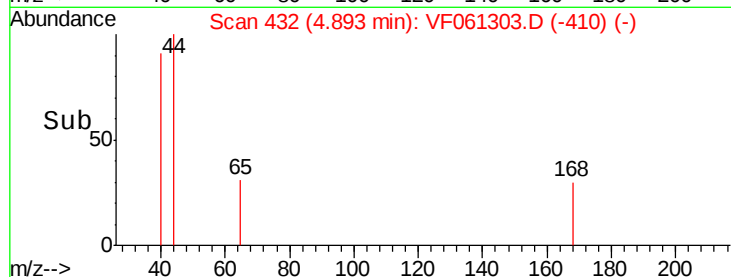
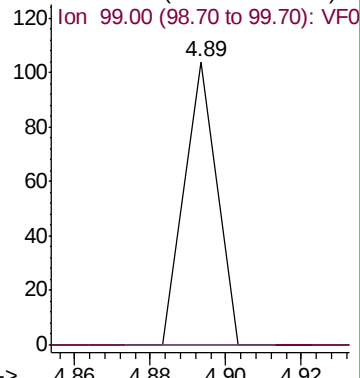
Ion Ratio Lower Upper

168 100

99 0.0 52.7 79.1#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 191.341 ug/l

RT: 1.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VF061303.D

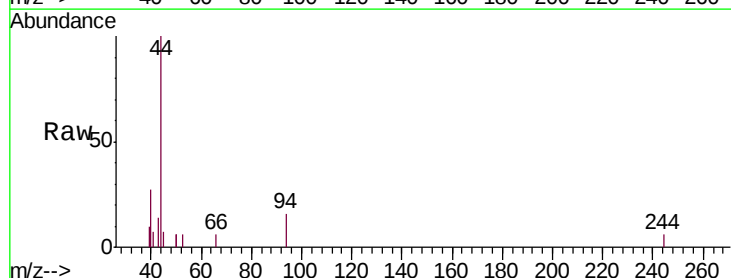
Acq: 9 Jan 2019 16:11

Tgt Ion: 50 Resp: 195

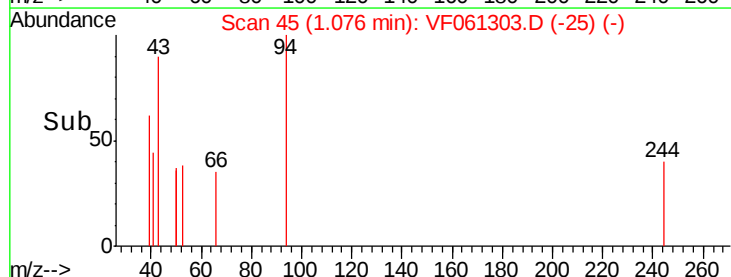
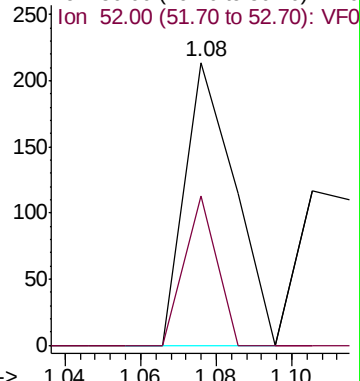
Ion Ratio Lower Upper

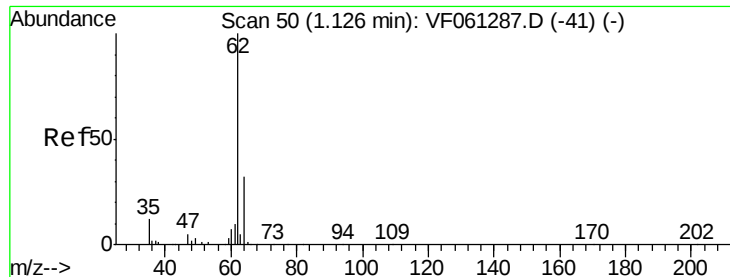
50 100

52 52.8 28.2 42.2#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 84.595 ug/l

RT: 1.16 min Scan# 54

Delta R.T. 0.04 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampled :

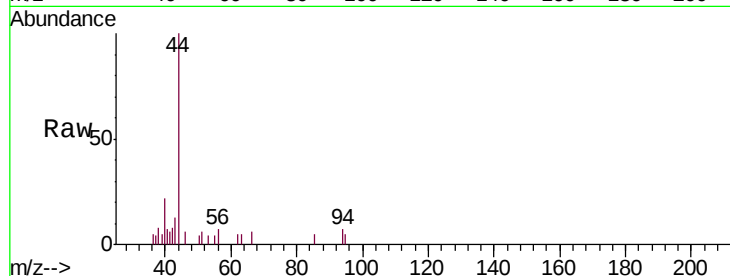
SP-1-6

Tgt Ion: 62 Resp: 77

Ion Ratio Lower Upper

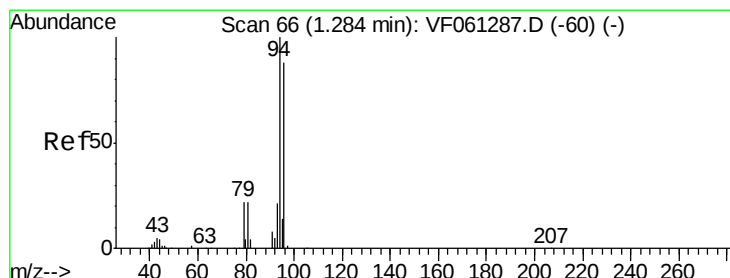
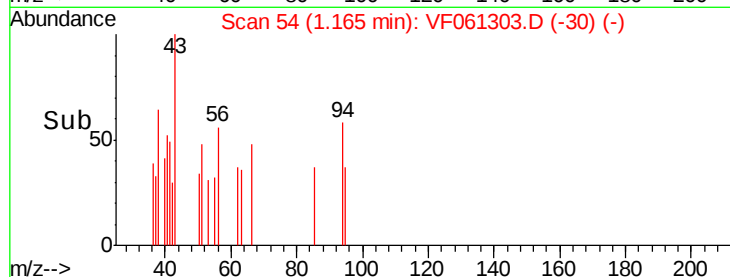
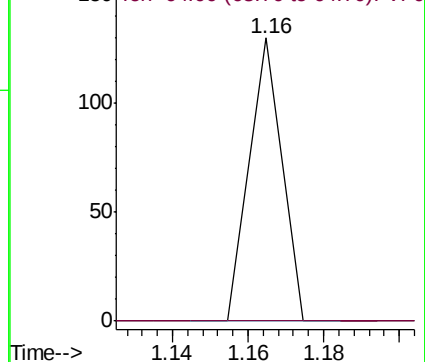
62 100

64 0.0 25.4 38.0#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.29 min Scan# 67

Delta R.T. 0.01 min

Lab File: VF061303.D

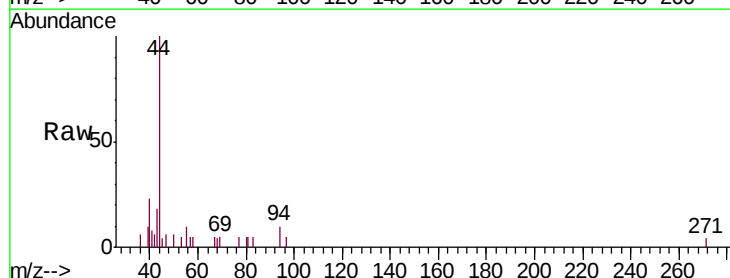
Acq: 9 Jan 2019 16:11

Tgt Ion: 94 Resp: 859

Ion Ratio Lower Upper

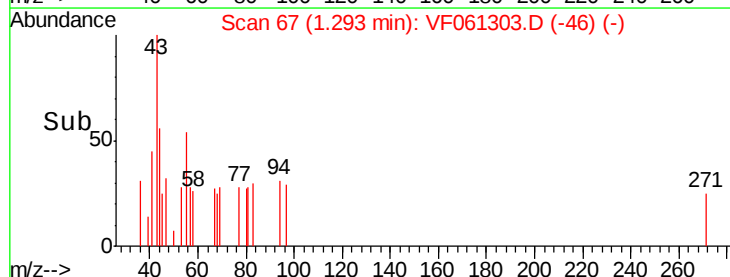
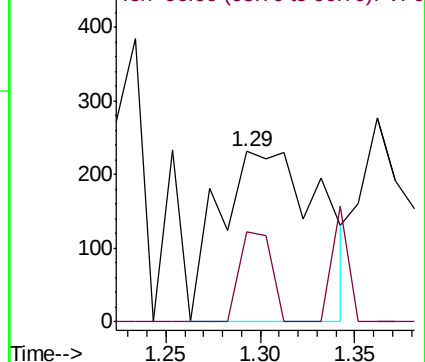
94 100

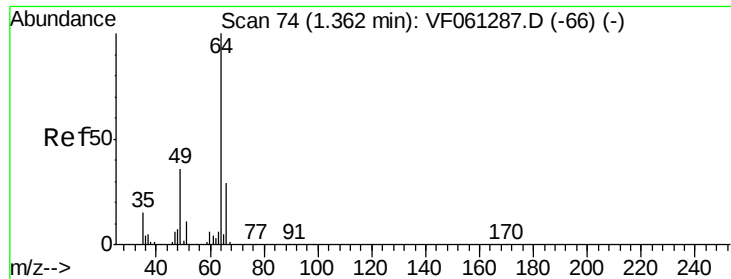
96 52.8 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0





#6

Chloroethane

Concen: 150.736 ug/l

RT: 1.36 min Scan# 74

Delta R.T. -0.00 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

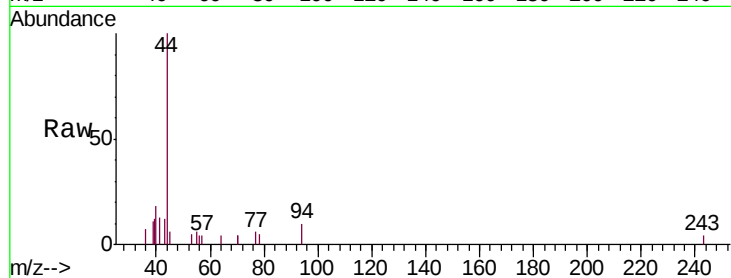
SP-1-6

Tgt Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.36

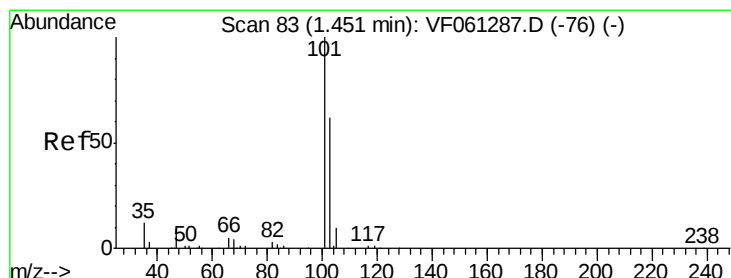
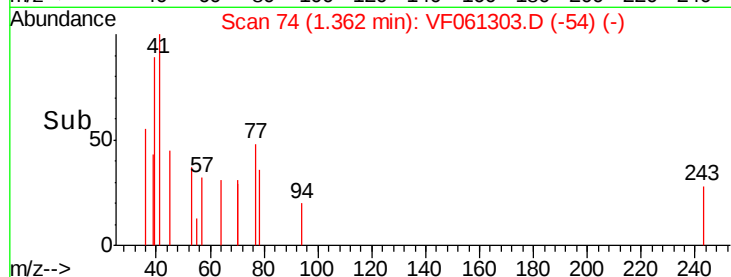
100

50

0

1.34 1.36 1.38

Time-->



#7

Trichlorofluoromethane

Concen: 56.382 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.07 min

Lab File: VF061303.D

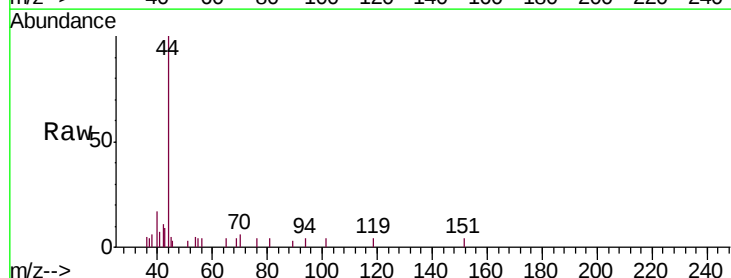
Acq: 9 Jan 2019 16:11

Tgt Ion: 101 Resp: 87

Ion Ratio Lower Upper

101 100

103 0.0 49.9 74.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.38

150

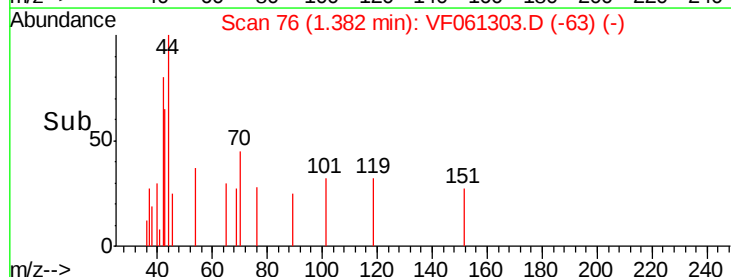
100

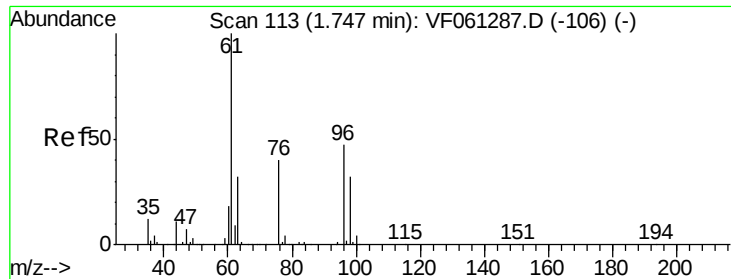
50

0

1.36 1.38 1.40

Time-->





#12

1,1-Dichloroethene

Concen: 205.671 ug/l

RT: 1.80 min Scan# 118

Delta R.T. 0.05 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampleId :

SP-1-6

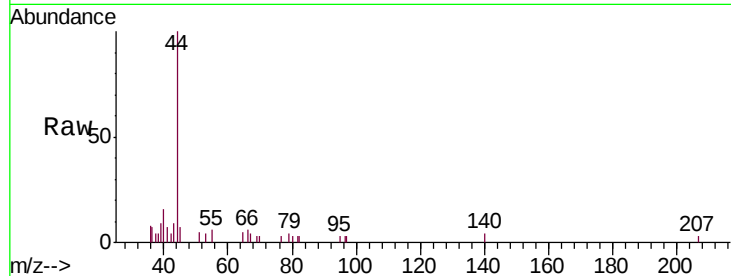
Tgt Ion: 96 Resp: 134

Ion Ratio Lower Upper

96 100

61 0.0 171.8 257.8#

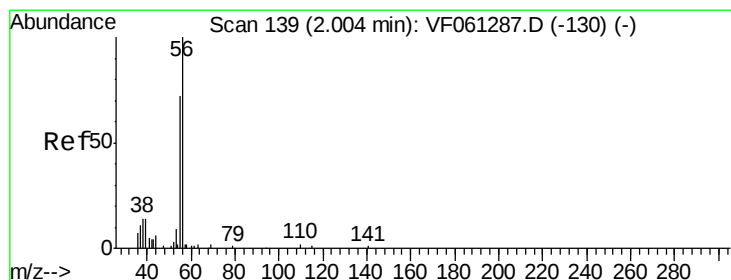
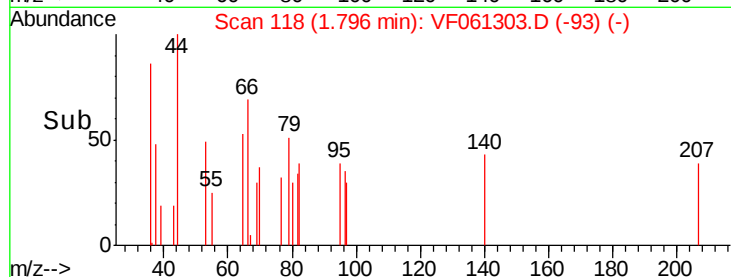
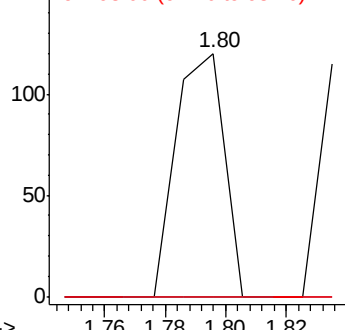
98 0.0 54.2 81.4#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 19868.423 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061303.D

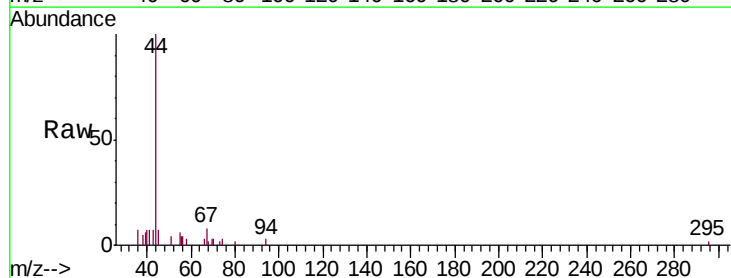
Acq: 9 Jan 2019 16:11

Tgt Ion: 56 Resp: 547

Ion Ratio Lower Upper

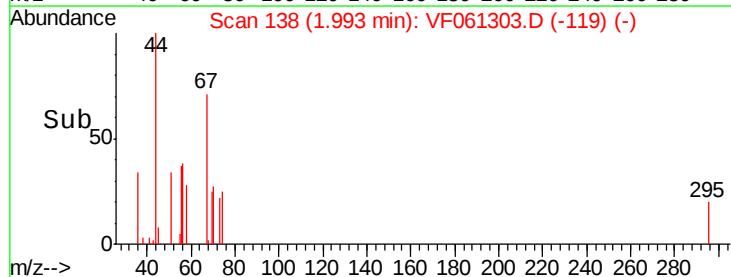
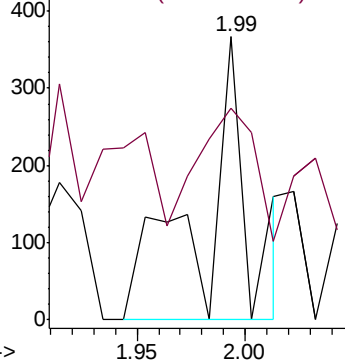
56 100

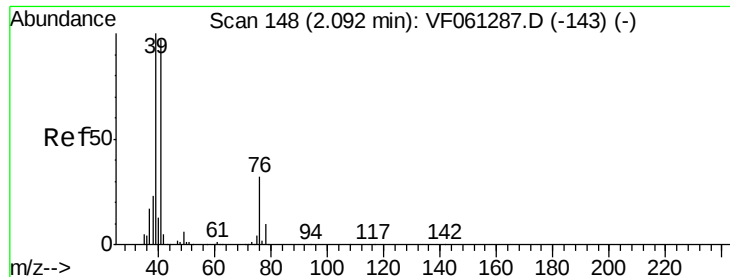
55 74.9 59.4 89.0



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

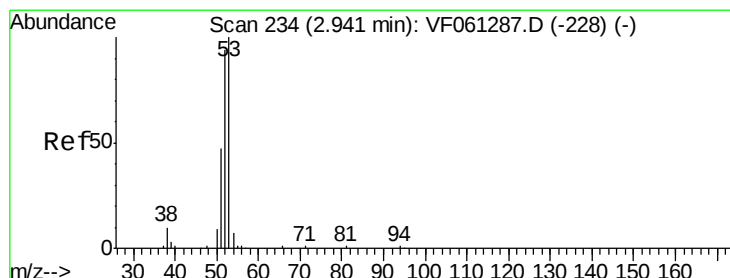
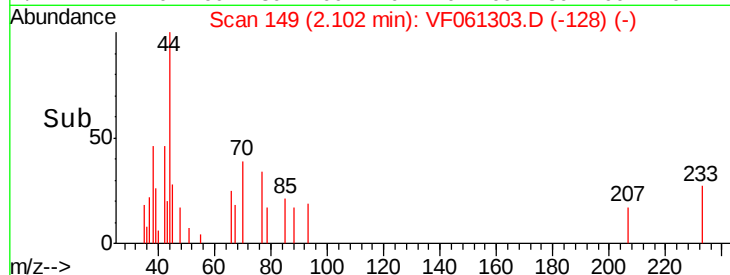
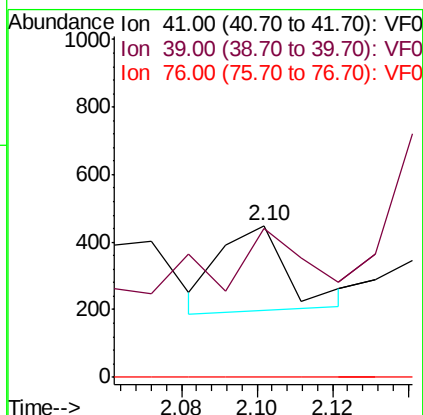
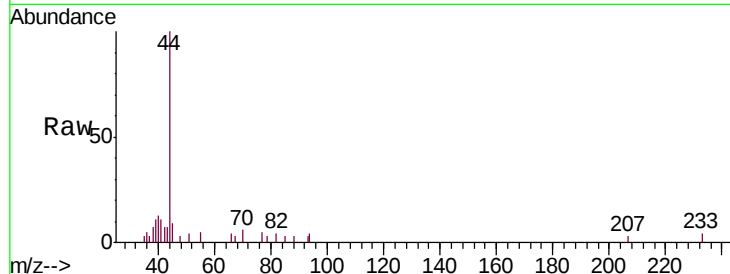




#14
 Allyl chloride
 Concen: 268.709 ug/l
 RT: 2.10 min Scan# 149
 Delta R.T. 0.01 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

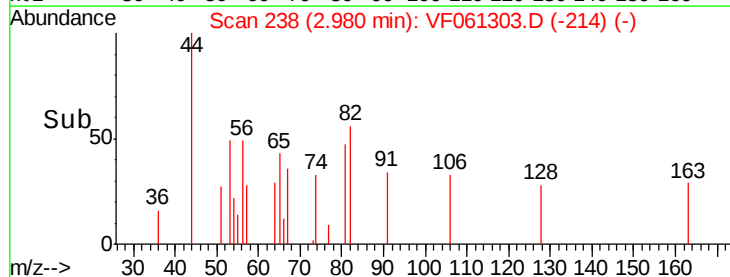
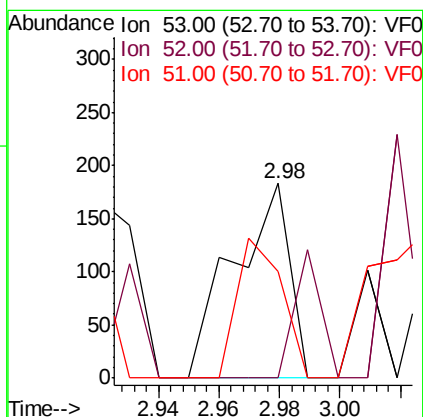
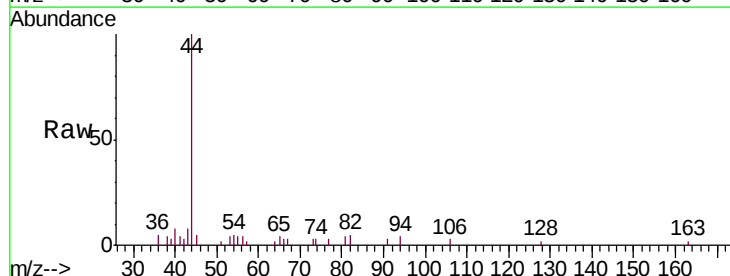
Instrument :
 MSVOA_F
 ClientSampleID :
 SP-1-6

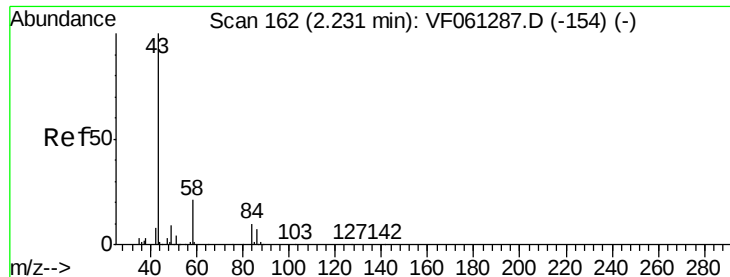
Tgt Ion: 41 Resp: 320
 Ion Ratio Lower Upper
 41 100
 39 98.0 82.6 123.8
 76 0.0 26.9 40.3#



#15
 Acrylonitrile
 Concen: 2419.638 ug/l
 RT: 2.98 min Scan# 238
 Delta R.T. 0.04 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

Tgt Ion: 53 Resp: 237
 Ion Ratio Lower Upper
 53 100
 52 0.0 74.6 111.8#
 51 54.6 37.8 56.6





#16

Acetone

Concen: 10452.648 ug/l

RT: 2.25 min Scan# 164

Delta R.T. 0.02 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampled :

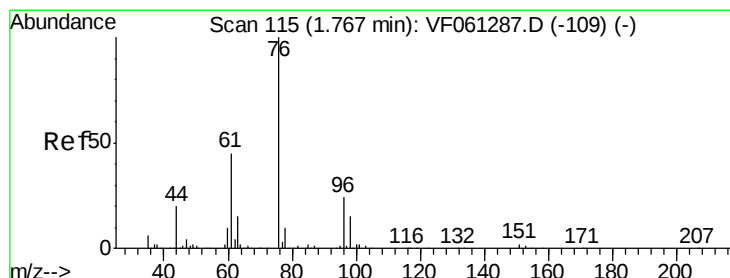
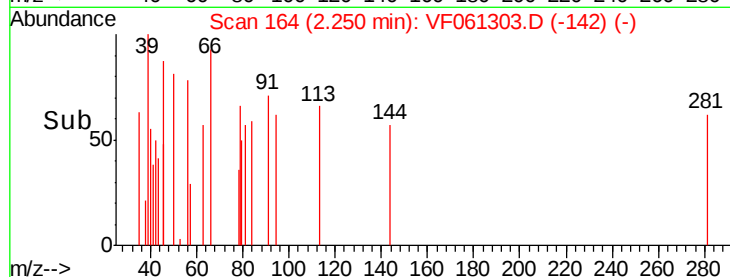
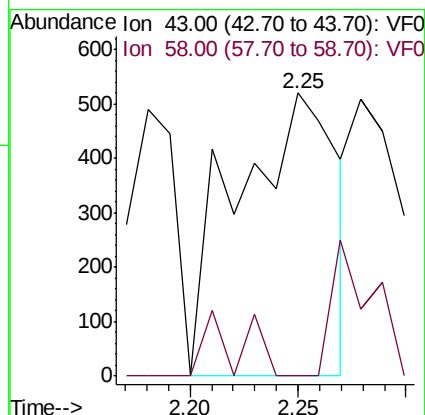
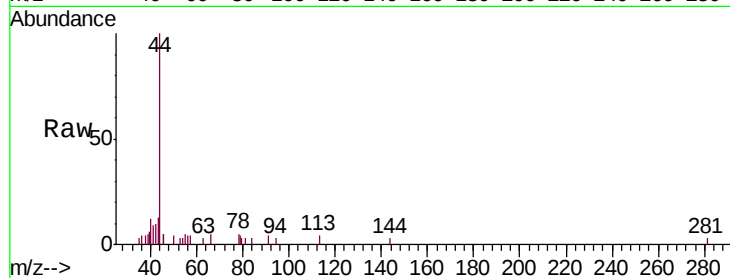
SP-1-6

Tgt Ion: 43 Resp: 1678

Ion Ratio Lower Upper

43 100

58 0.0 16.6 25.0#



#17

Carbon Disulfide

Concen: 29.275 ug/l

RT: 1.84 min Scan# 122

Delta R.T. 0.07 min

Lab File: VF061303.D

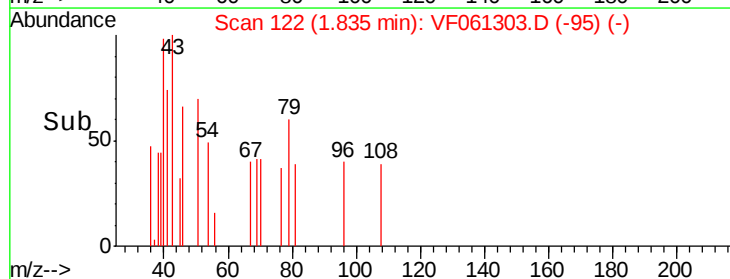
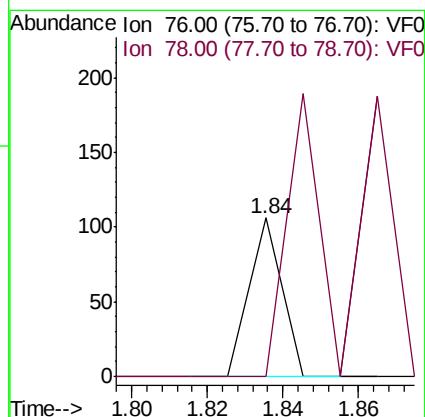
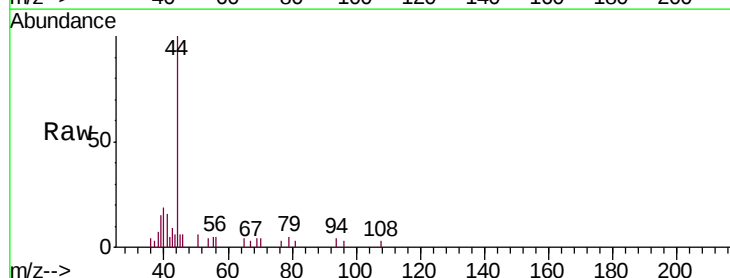
Acq: 9 Jan 2019 16:11

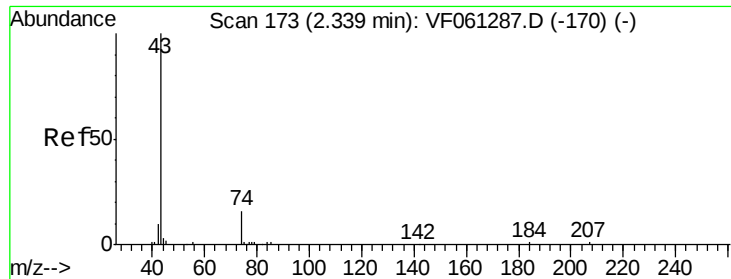
Tgt Ion: 76 Resp: 63

Ion Ratio Lower Upper

76 100

78 0.0 7.8 11.6#

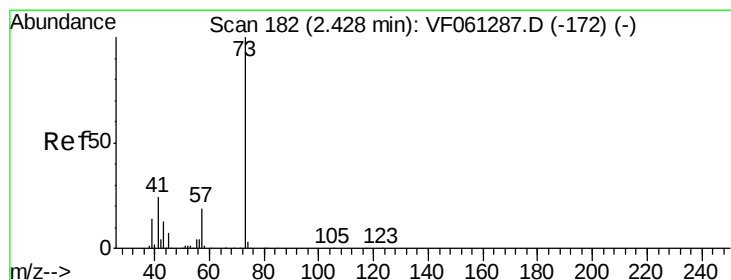
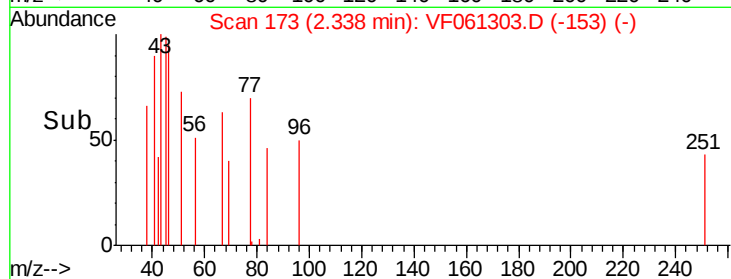
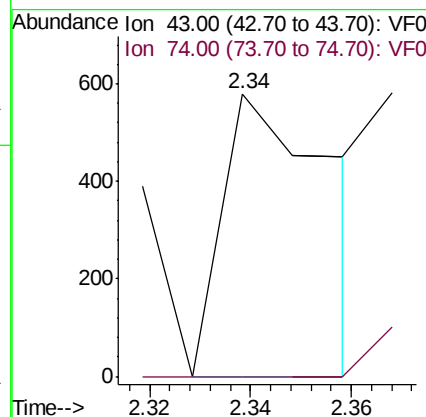
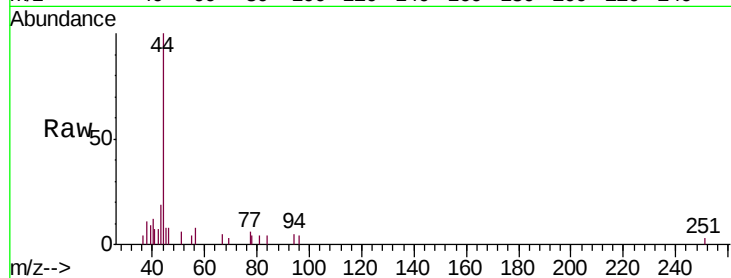




#18
Methyl Acetate
Concen: 2776.695 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

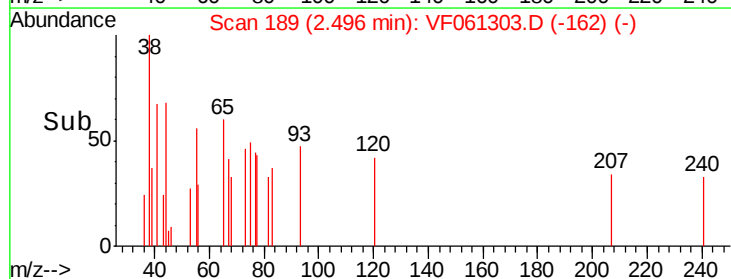
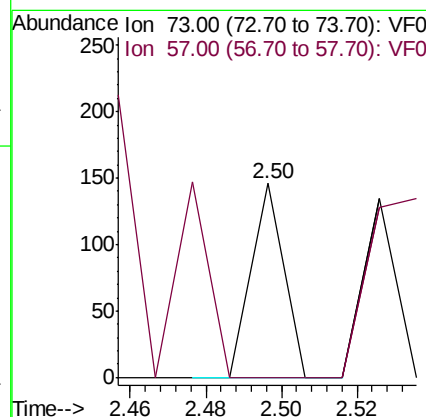
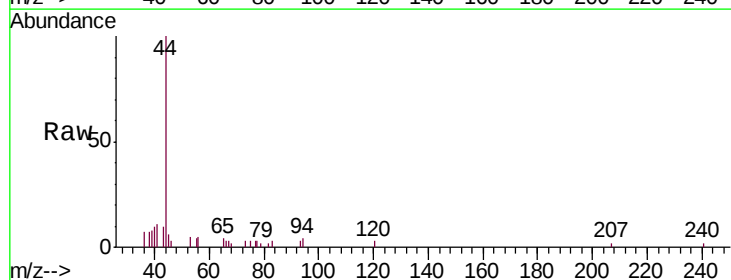
Instrument :
MSVOA_F
ClientSampleId :
SP-1-6

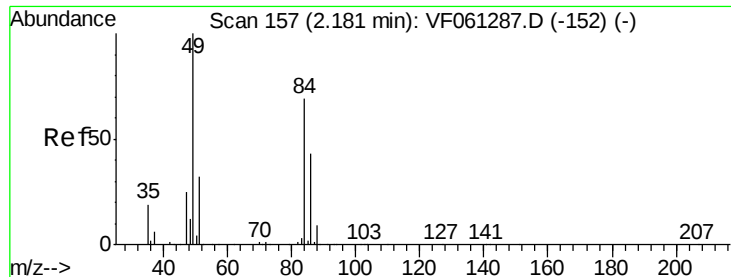
Tgt Ion: 43 Resp: 877
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#



#19
Methyl tert-butyl Ether
Concen: 69.268 ug/l
RT: 2.50 min Scan# 189
Delta R.T. 0.07 min
Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

Tgt Ion: 73 Resp: 86
Ion Ratio Lower Upper
73 100
57 0.0 15.5 23.3#

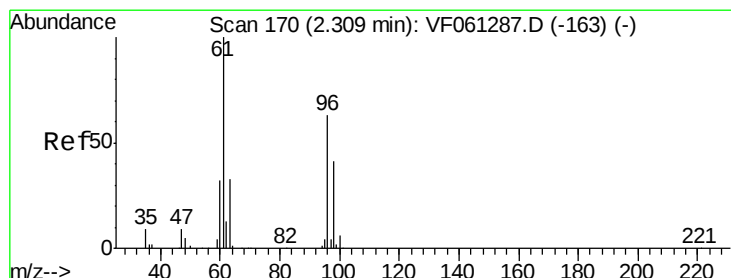
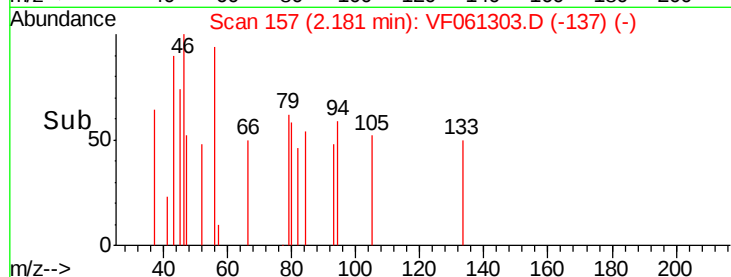
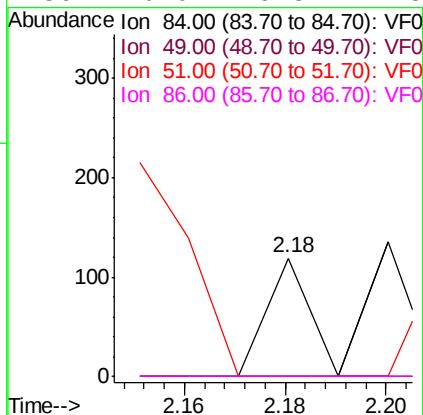
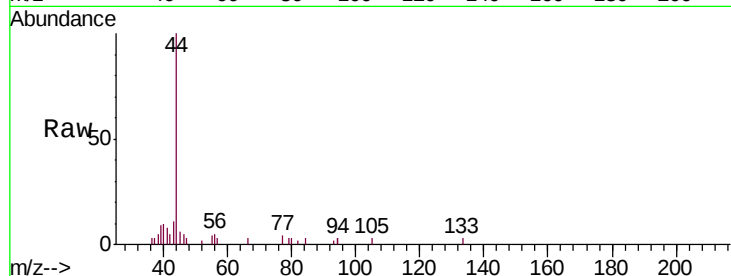




#20
Methylene Chloride
Concen: 103.070 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.00 min
Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

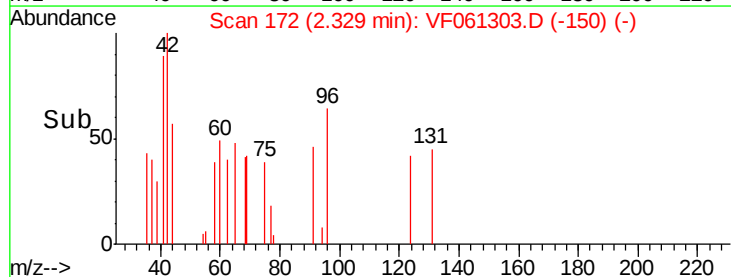
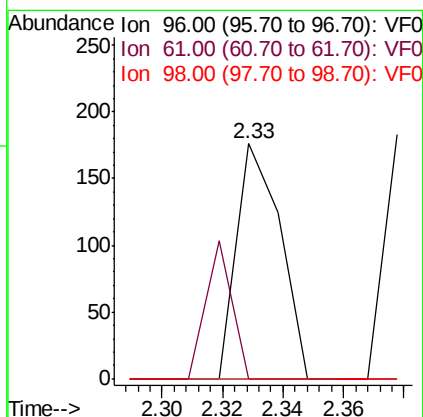
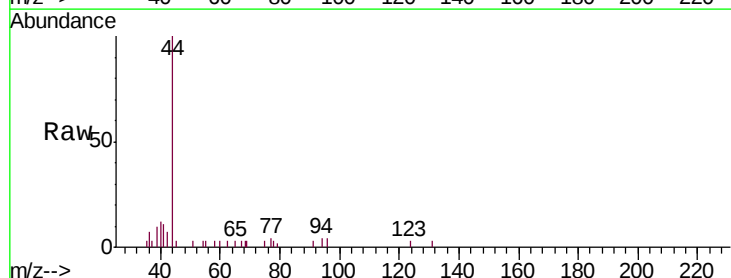
Instrument :
MSVOA_F
ClientSampleId :
SP-1-6

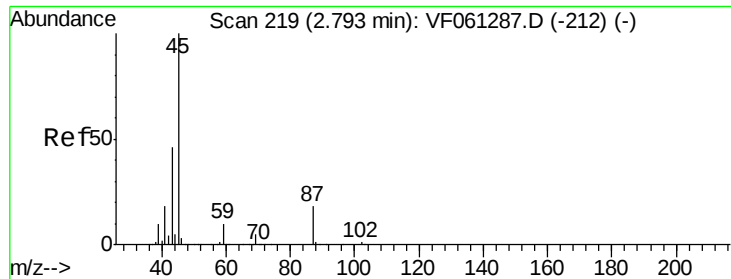
Tgt Ion: 84 Resp: 70
Ion Ratio Lower Upper
84 100
49 0.0 116.6 175.0#
51 0.0 37.7 56.5#
86 0.0 49.8 74.8#



#21
trans-1,2-Dichloroethene
Concen: 257.824 ug/l
RT: 2.33 min Scan# 172
Delta R.T. 0.02 min
Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

Tgt Ion: 96 Resp: 178
Ion Ratio Lower Upper
96 100
61 0.0 127.0 190.4#
98 0.0 51.7 77.5#



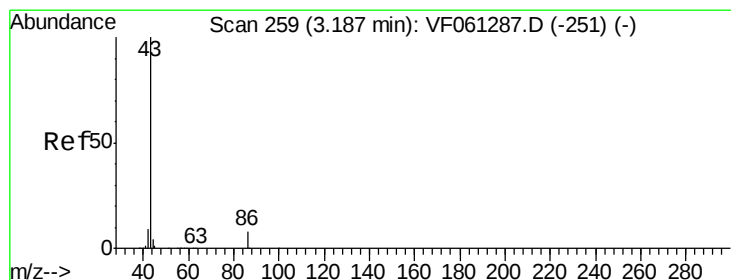
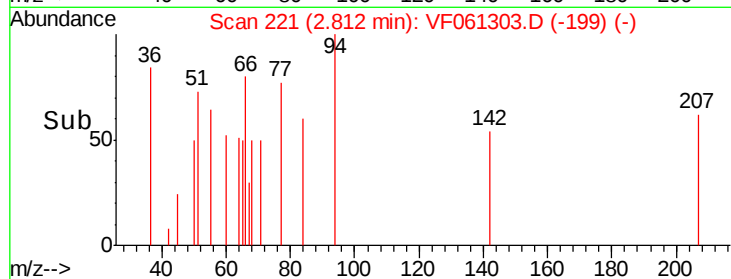
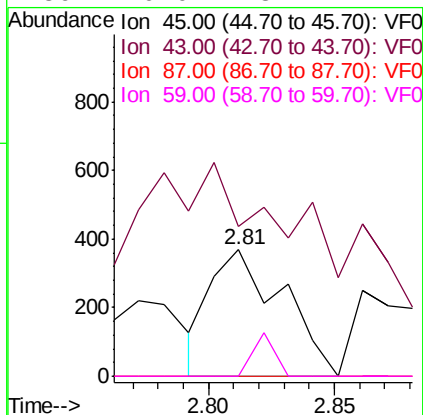
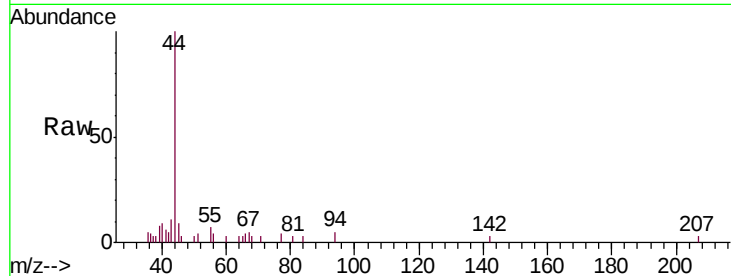


#22

Diisopropyl ether
 Concen: 319.886 ug/l
 RT: 2.81 min Scan# 221
 Delta R.T. 0.02 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-6

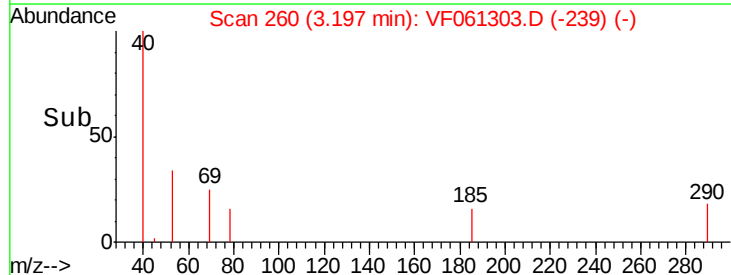
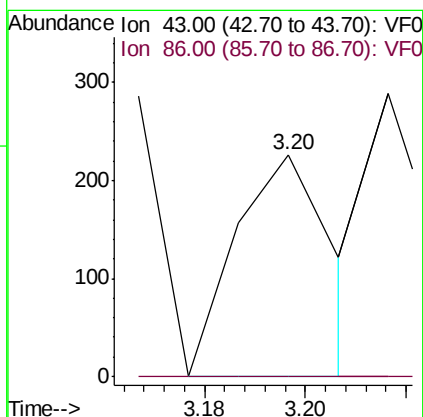
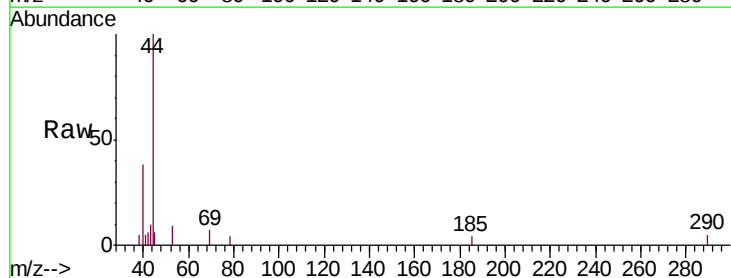
Tgt Ion: 45 Resp: 737
 Ion Ratio Lower Upper
 45 100
 43 119.0 37.4 56.2#
 87 0.0 14.2 21.2#
 59 0.0 8.2 12.2#

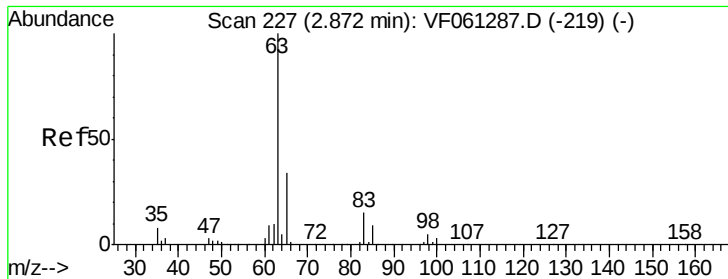


#23

Vinyl Acetate
 Concen: 443.765 ug/l
 RT: 3.20 min Scan# 260
 Delta R.T. 0.01 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

Tgt Ion: 43 Resp: 299
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.5 9.7#





#24

1,1-Dichloroethane

Concen: 109.549 ug/l

RT: 2.82 min Scan# 222

Delta R.T. -0.05 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampled :

SP-1-6

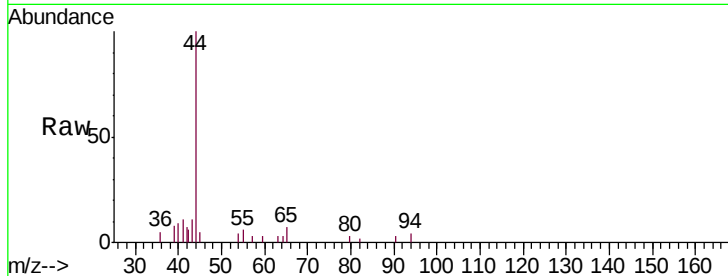
Tgt Ion: 63 Resp: 146

Ion Ratio Lower Upper

63 100

98 0.0 2.5 7.6#

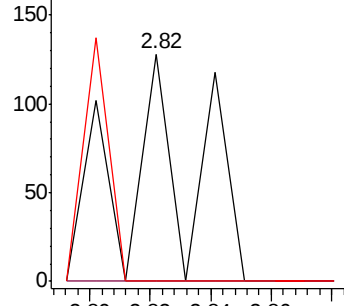
100 0.0 1.7 5.0#



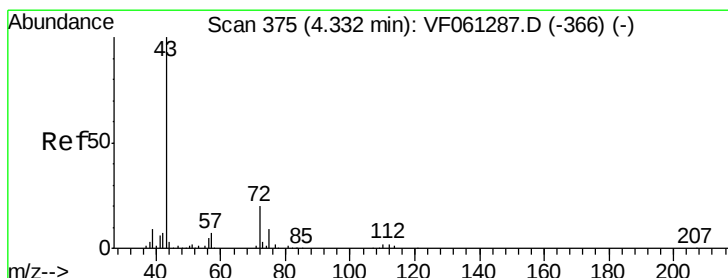
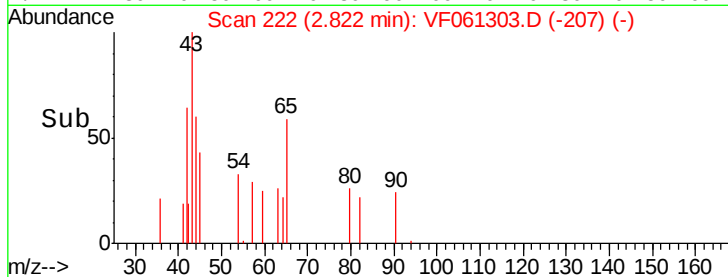
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->



#25

2-Butanone

Concen: 921.135 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.00 min

Lab File: VF061303.D

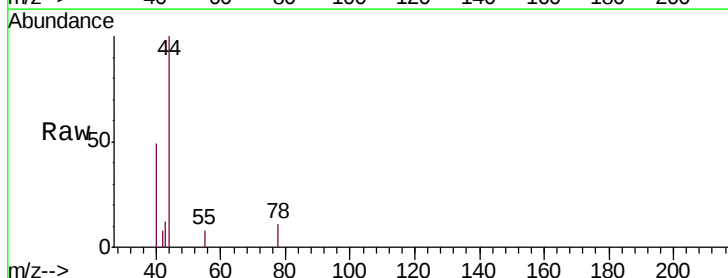
Acq: 9 Jan 2019 16:11

Tgt Ion: 43 Resp: 238

Ion Ratio Lower Upper

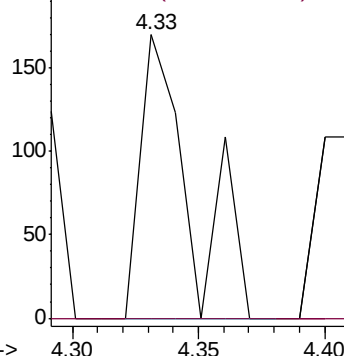
43 100

72 0.0 16.5 24.7#

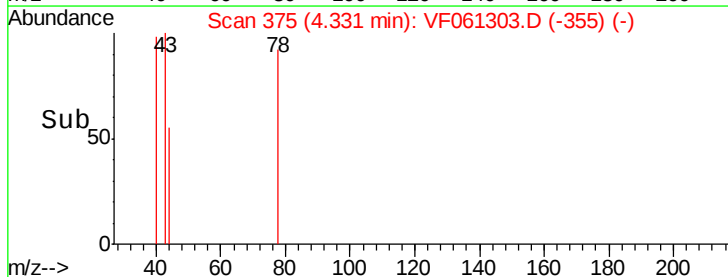


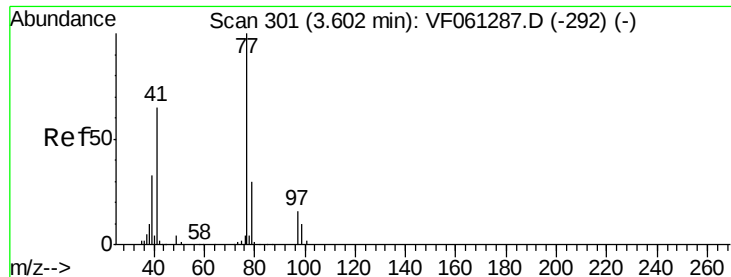
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->





#26

2,2-Dichloropropane

Concen: 85.337 ug/l

RT: 3.51 min Scan# 292

Delta R.T. -0.09 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampled :

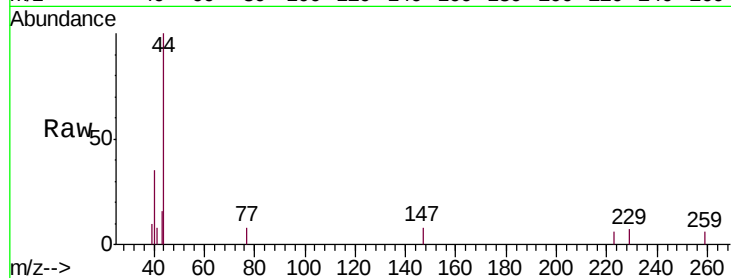
SP-1-6

Tgt Ion: 77 Resp: 76

Ion Ratio Lower Upper

77 100

97 0.0 8.6 25.9#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

150

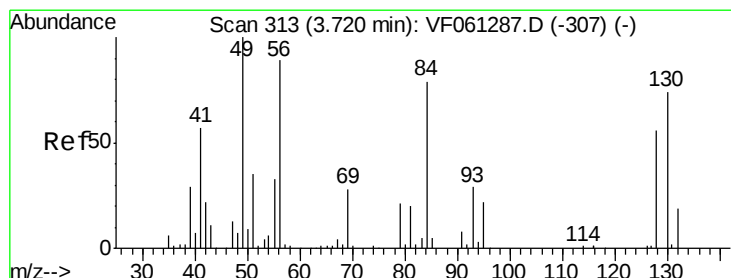
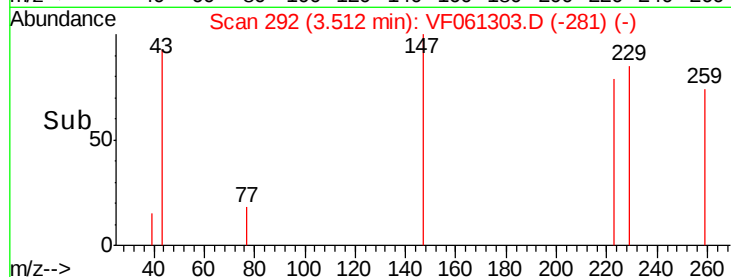
100

50

0

3.48 3.50 3.52 3.54

Time-->



#28

Bromochloromethane

Concen: 195.708 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.15 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

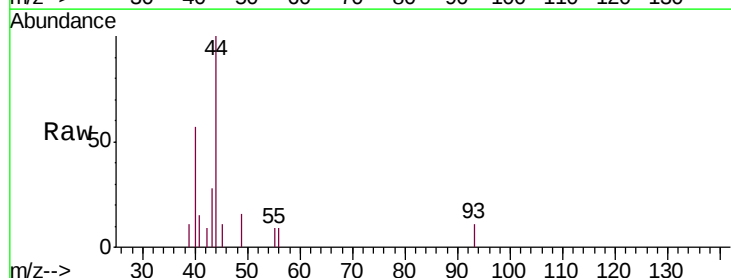
Tgt Ion: 49 Resp: 115

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

130 0.0 58.6 88.0#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V

250

200

150

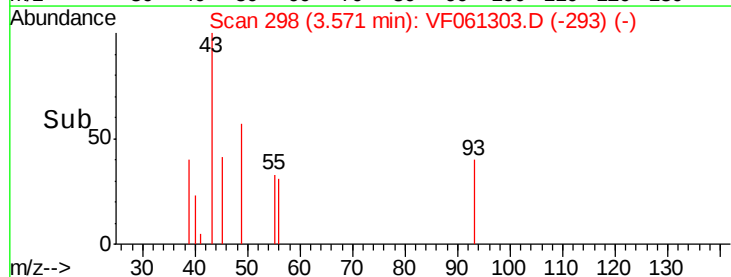
100

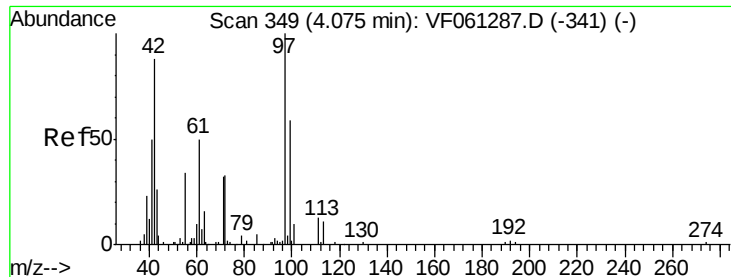
50

0

3.56 3.58 3.60

Time-->

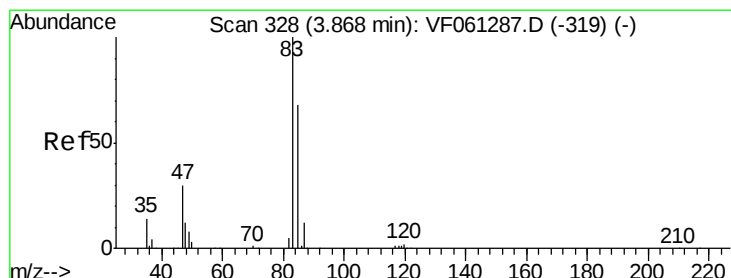
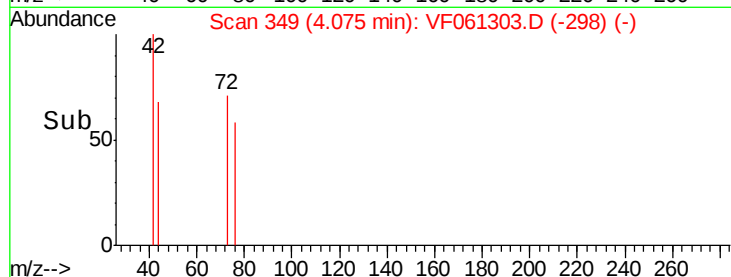
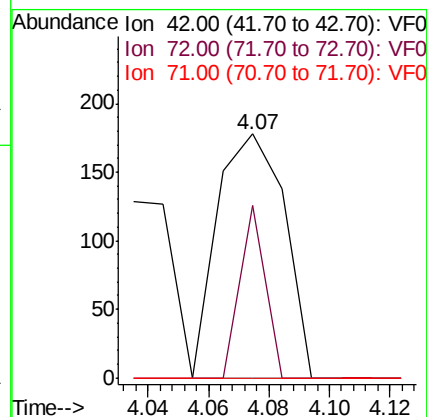
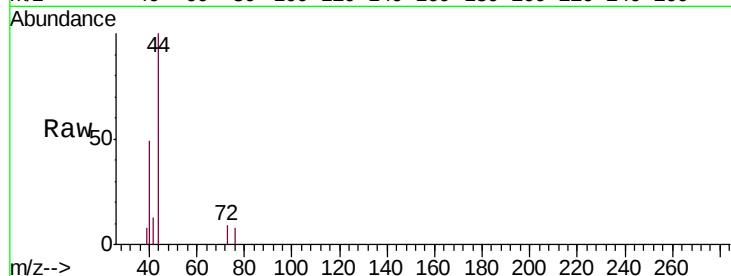




#29
Tetrahydrofuran
Concen: 2554.854 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.00 min
Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

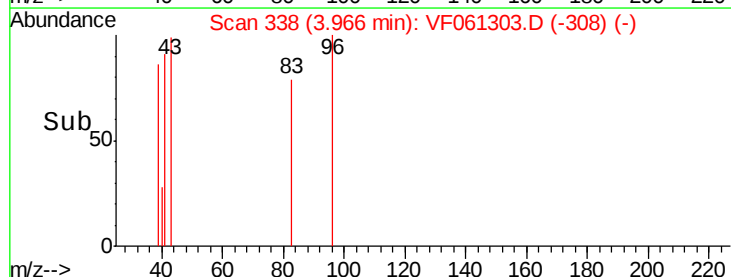
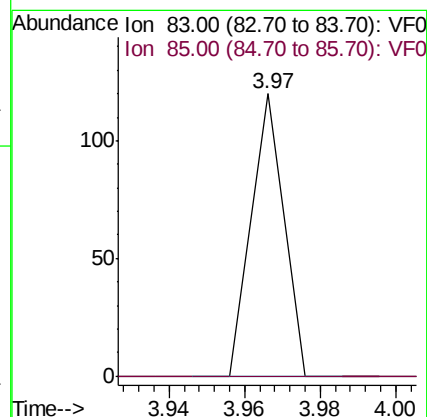
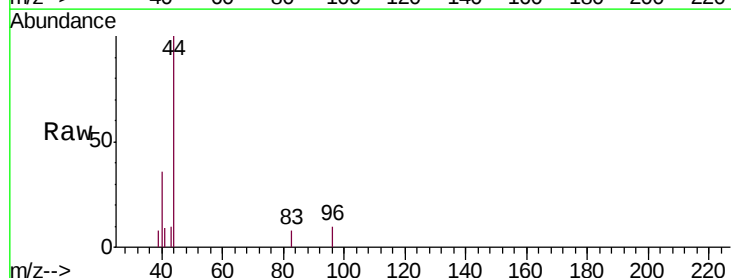
Instrument :
MSVOA_F
ClientSampleId :
SP-1-6

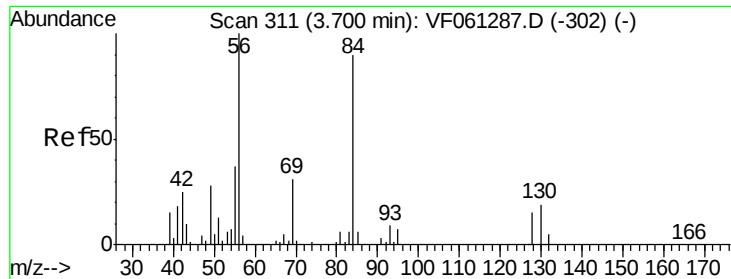
Tgt Ion: 42 Resp: 276
Ion Ratio Lower Upper
42 100
72 27.2 32.3 48.5#
71 0.0 29.5 44.3#



#30
Chloroform
Concen: 41.967 ug/l
RT: 3.97 min Scan# 338
Delta R.T. 0.10 min
Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

Tgt Ion: 83 Resp: 71
Ion Ratio Lower Upper
83 100
85 0.0 54.4 81.6#





#31

Cyclohexane

Concen: 50.781 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.02 min

Lab File: VF061303.D

Acq: 9 Jan 2019 16:11

Instrument :

MSVOA_F

ClientSampled :

SP-1-6

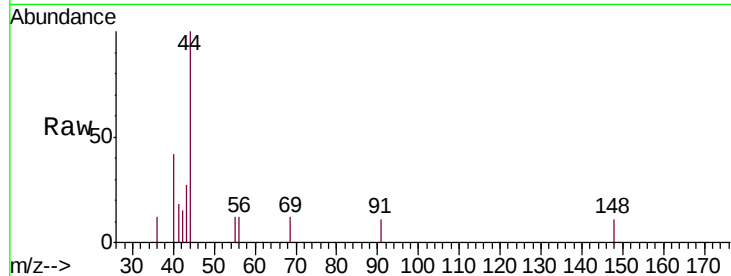
Tgt Ion: 56 Resp: 71

Ion Ratio Lower Upper

56 100

69 100.0 24.7 37.1#

84 0.0 72.2 108.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0

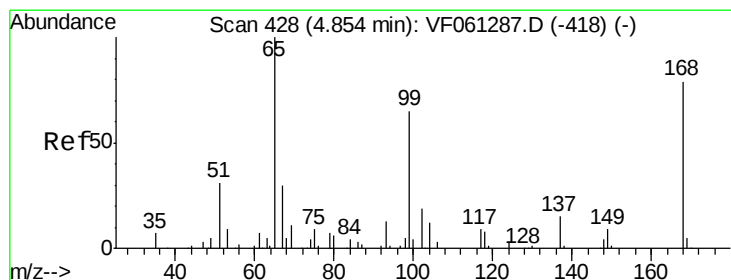
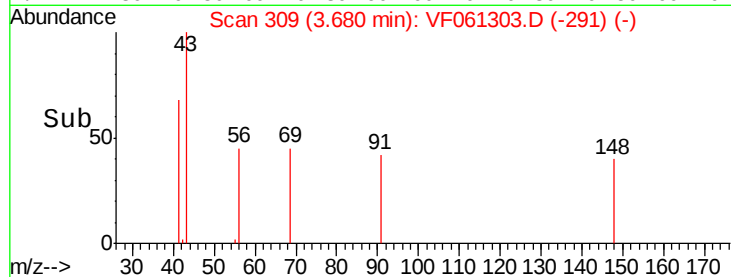
3.68

100

50

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 92.741 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.04 min

Lab File: VF061303.D

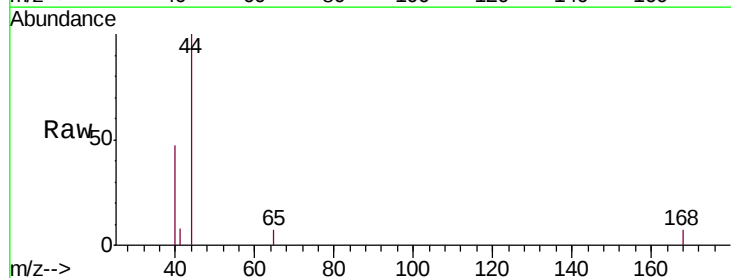
Acq: 9 Jan 2019 16:11

Tgt Ion: 65 Resp: 64

Ion Ratio Lower Upper

65 100

67 0.0 0.0 98.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

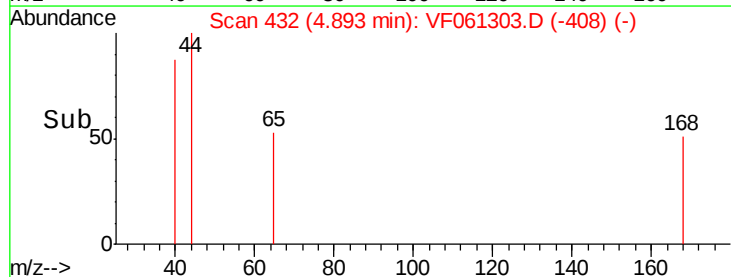
150

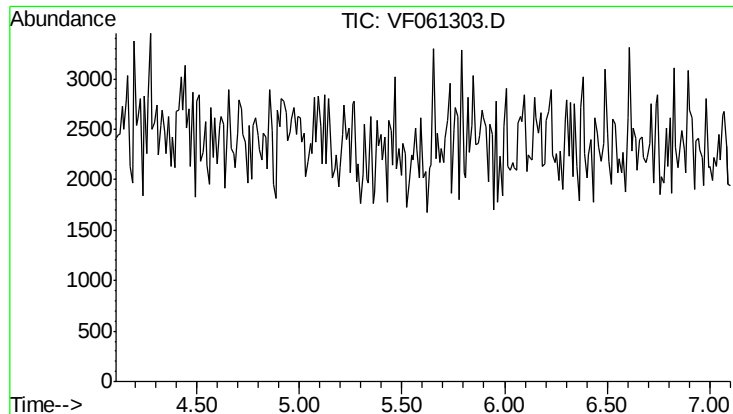
100

50

0

Time-->

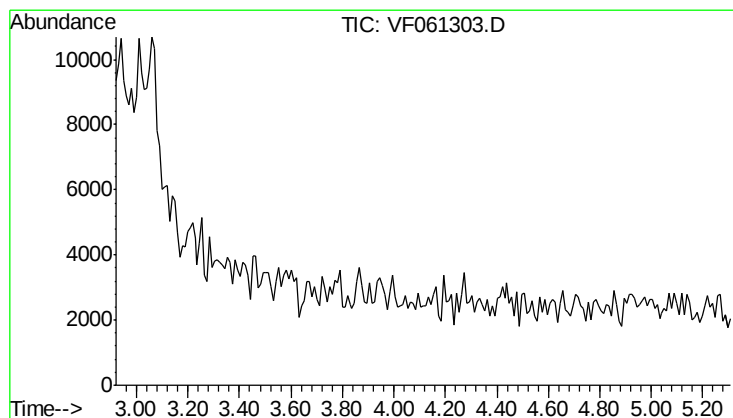
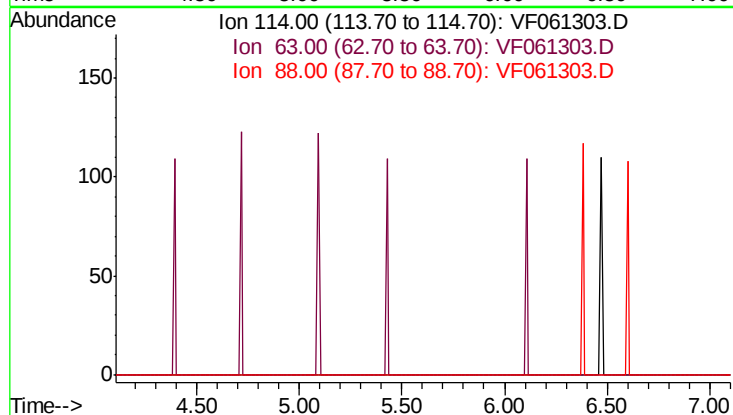




#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.60 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

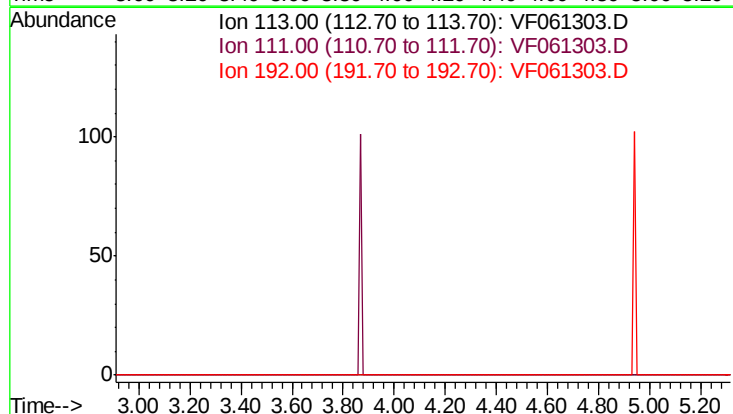
Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-6

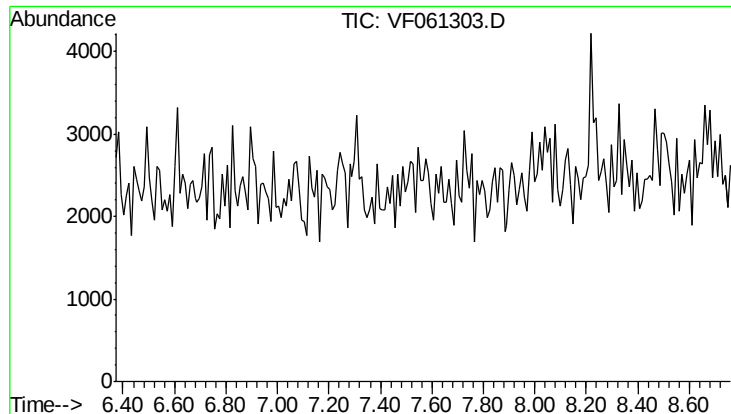
Tgt Ion: 114
 Sig Exp Ratio
 114 100
 63 21.4
 88 20.0



#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.11 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

Tgt Ion: 113
 Sig Exp Ratio
 113 100
 111 97.5
 192 13.3



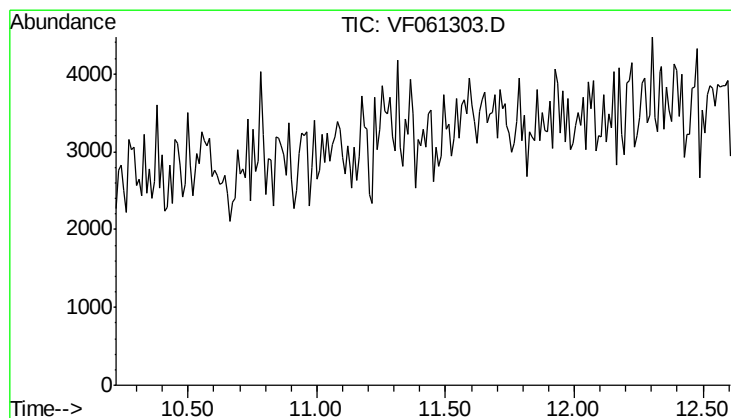
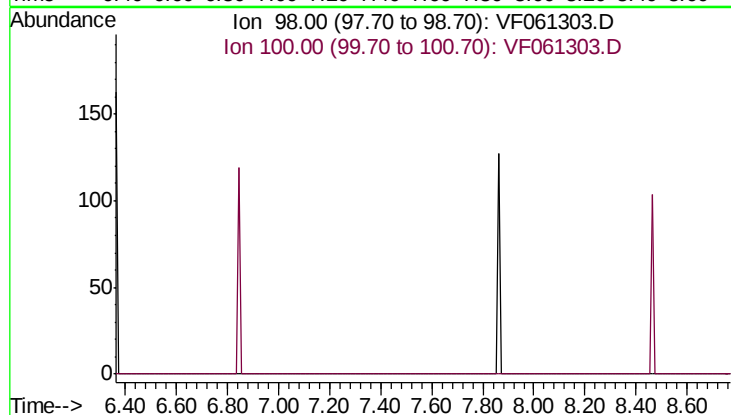


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.57 min

Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

Instrument :
MSVOA_F
ClientSampleId :
SP-1-6

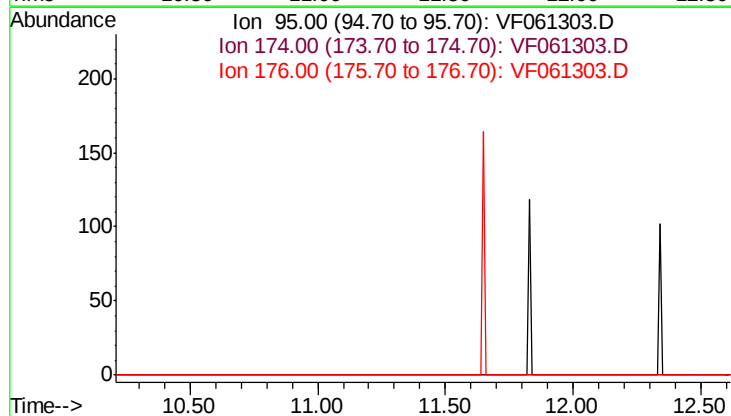
Tgt Ion: 98
Sig Exp Ratio
98 100
100 69.5

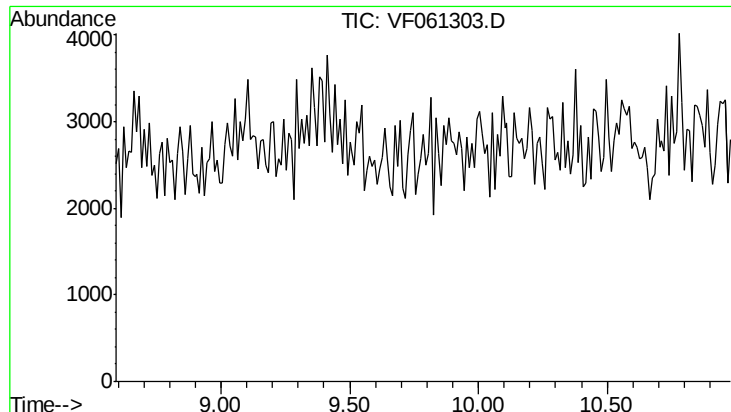


#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.41 min

Lab File: VF061303.D
Acq: 9 Jan 2019 16:11

Tgt Ion: 95
Sig Exp Ratio
95 100
174 57.1
176 58.9

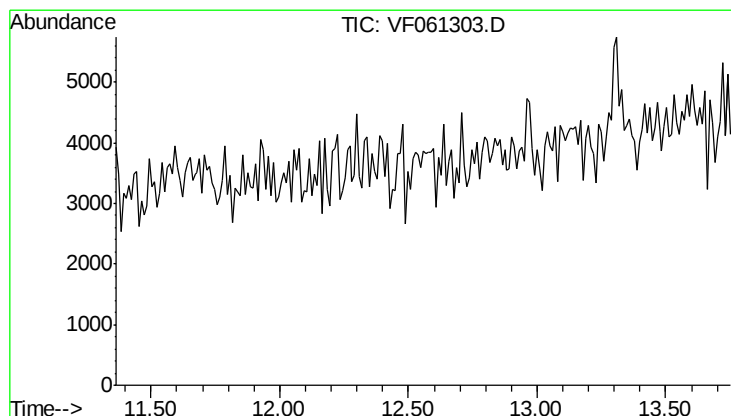
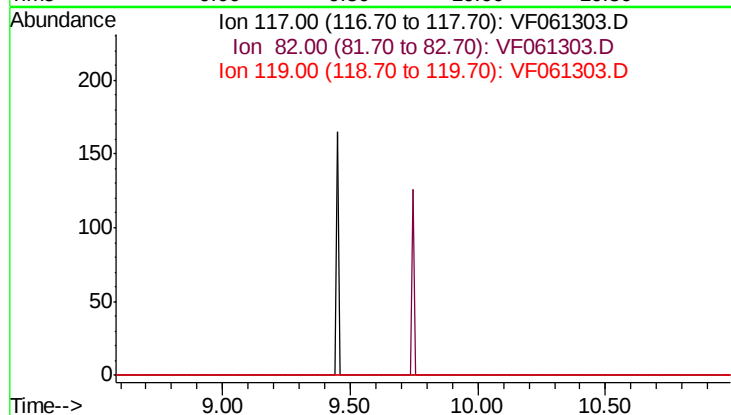




#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.79 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

Instrument :
 MSVOA_F
 ClientSampleId :
 SP-1-6

Tgt Ion	Exp Ratio
117	100
82	56.6
119	31.7



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.56 min
 Lab File: VF061303.D
 Acq: 9 Jan 2019 16:11

Tgt Ion	Exp Ratio
152	100
115	59.3
150	157.7

