

Data File : VF061319.D
Acq On : 10 Jan 2019 1:45
Operator : VA/AP
Sample : K1082-27RE
Misc : 5.37g/5mL/MSVOA-F/SOIL
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SP-1-1

Quant Time: Jan 10 06:04:14 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	4.88	168	109689	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.61	114	193577	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.80	117	161283	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	66091	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	72542	59.42	ug/l	0.01
Spiked Amount	50.000		Recovery	=	118.84%	
35) Dibromofluoromethane	4.12	113	79713	53.82	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.64%	
50) Toluene-d8	7.57	98	209970	47.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.80%	
62) 4-Bromofluorobenzene	11.42	95	78700	41.12	ug/l	0.01
Spiked Amount	50.000		Recovery	=	82.24%	

Target Compounds

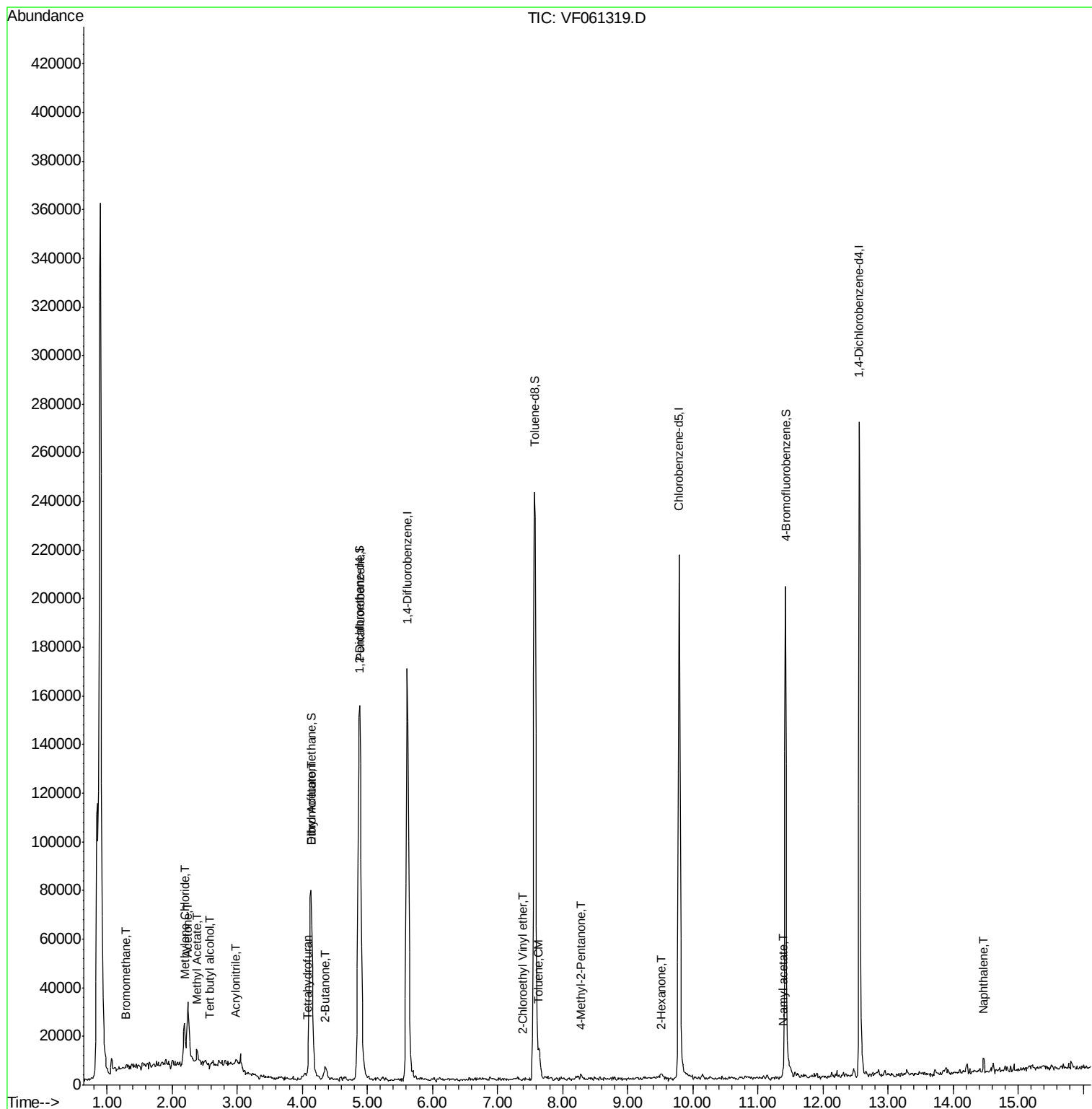
						Qvalue
5) Bromomethane	1.30	94	302	3.116	ug/l #	6
11) Tert butyl alcohol	2.59	59	364	7.446	ug/l #	1
13) Acrolein	2.01	56	632	Below Cal	#	56
15) Acrylonitrile	2.96	53	1062	6.129	ug/l #	1
16) Acetone	2.24	43	37009	130.308	ug/l #	89
18) Methyl Acetate	2.39	43	4643	8.309	ug/l #	83
20) Methylene Chloride	2.19	84	7538	6.274	ug/l	99
25) 2-Butanone	4.35	43	13558	29.660	ug/l #	89
29) Tetrahydrofuran	4.08	42	710	3.715	ug/l #	36
37) Ethyl Acetate	4.12	43	914	1.110	ug/l #	1
51) 4-Methyl-2-Pentanone	8.29	43	2262	2.757	ug/l	97
52) Toluene	7.64	92	5968	1.759	ug/l	76
58) 2-Chloroethyl Vinyl ether	7.38	63	76	1.681	ug/l #	56
59) 2-Hexanone	9.52	43	2163	3.722	ug/l	92
74) N-amyl acetate	11.38	43	2195	1.660	ug/l #	68
95) Naphthalene	14.47	128	3950	1.412	ug/l #	89

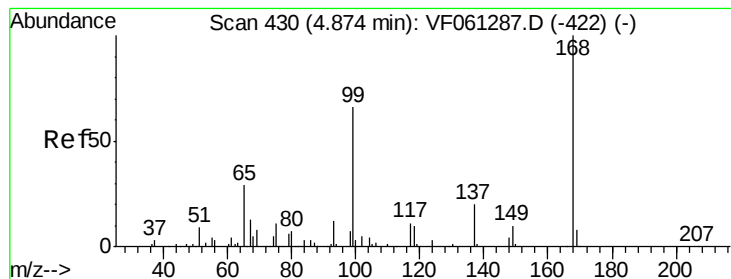
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

Instrument :

MSVOA_F

ClientSampleId :

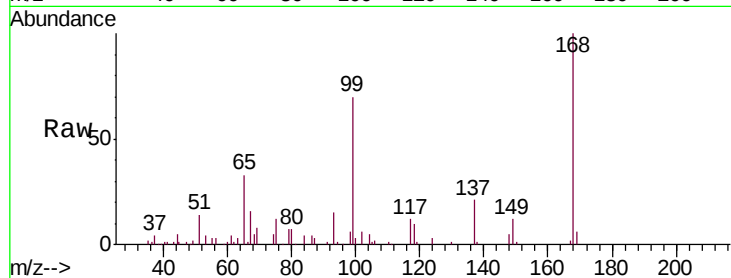
SP-1-1

Tgt Ion:168 Resp: 109689

Ion Ratio Lower Upper

168 100

99 70.4 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

30000

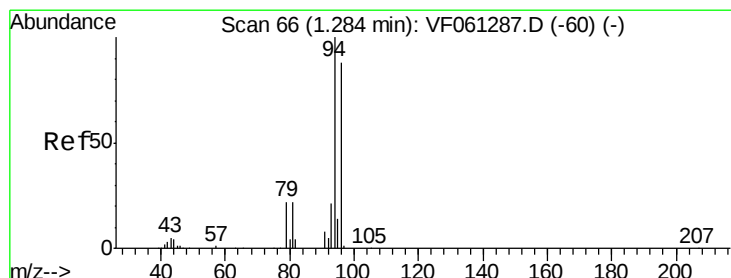
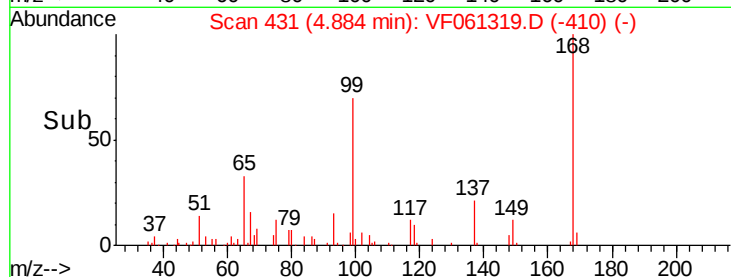
20000

10000

0

4.80 4.90 5.00

Time-->



#5

Bromomethane

Concen: 3.116 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.02 min

Lab File: VF061319.D

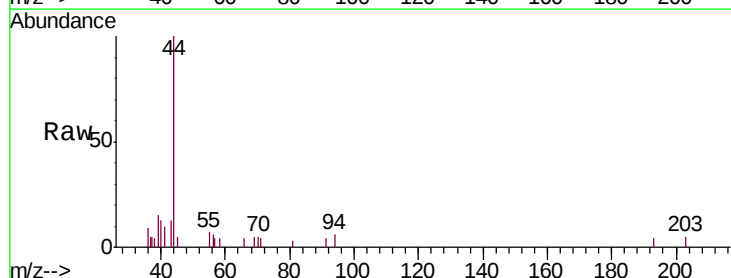
Acq: 10 Jan 2019 1:45

Tgt Ion: 94 Resp: 302

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

300

250

200

150

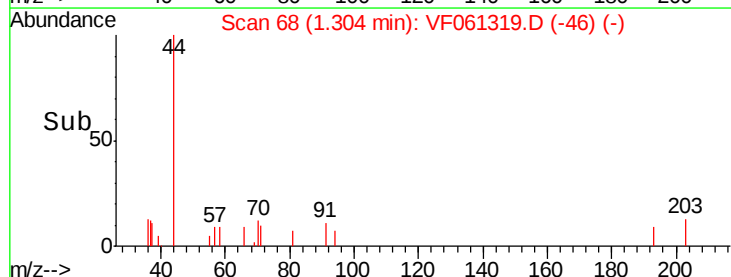
100

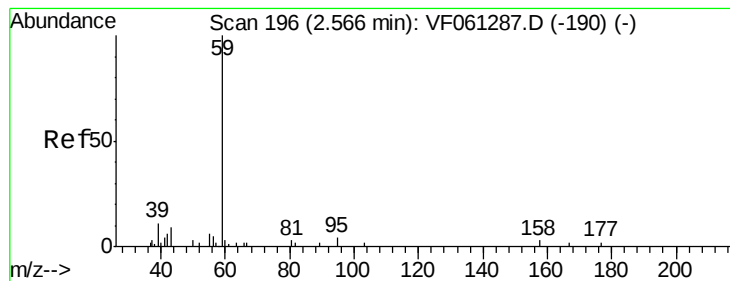
50

0

1.25 1.30

Time-->





#11

Tert butyl alcohol

Concen: 7.446 ug/l

RT: 2.59 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

Instrument :

MSVOA_F

ClientSampleId :

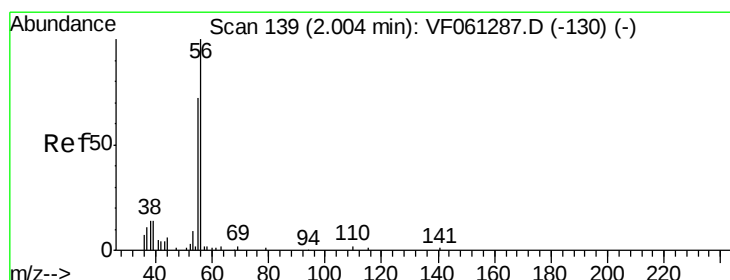
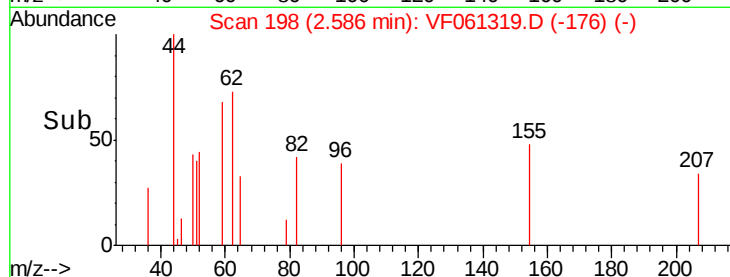
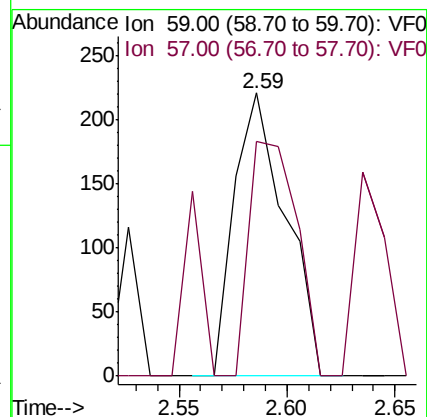
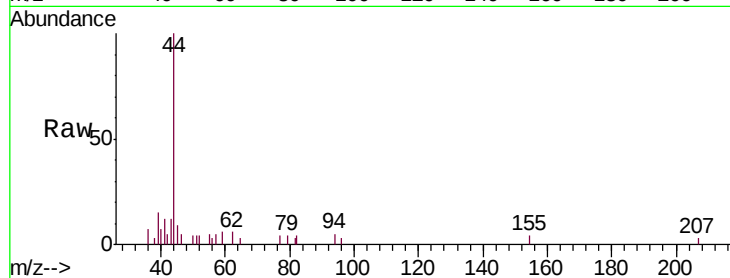
SP-1-1

Tgt Ion: 59 Resp: 364

Ion Ratio Lower Upper

59 100

57 82.8 15.1 22.7#



#13

Acrolein

Concen: Below Cal

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF061319.D

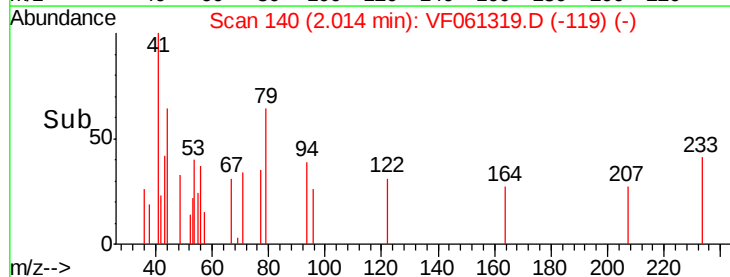
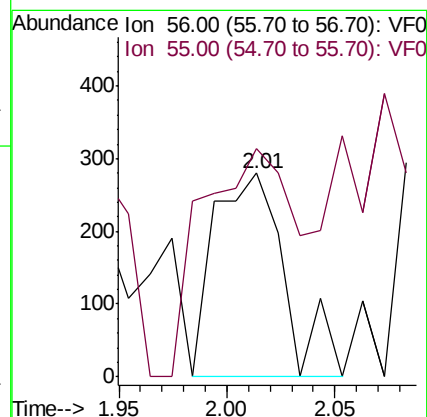
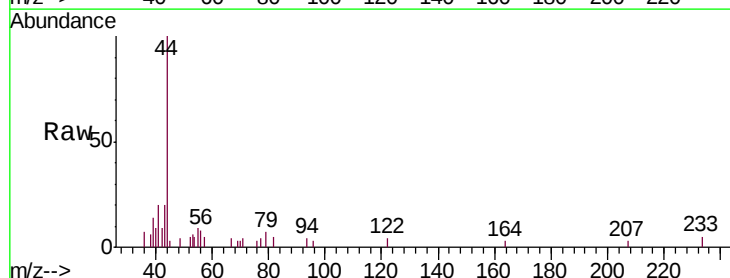
Acq: 10 Jan 2019 1:45

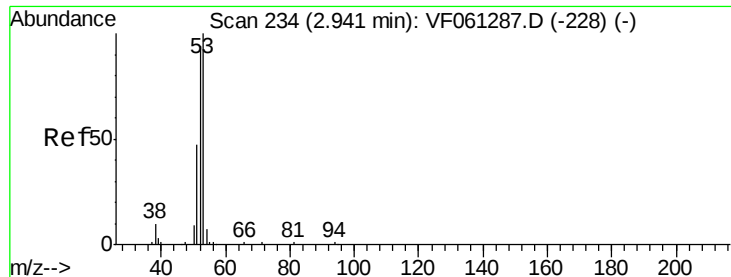
Tgt Ion: 56 Resp: 632

Ion Ratio Lower Upper

56 100

55 111.8 59.4 89.0#





#15

Acrylonitrile

Concen: 6.129 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

Instrument :

MSVOA_F

ClientSampleId :

SP-1-1

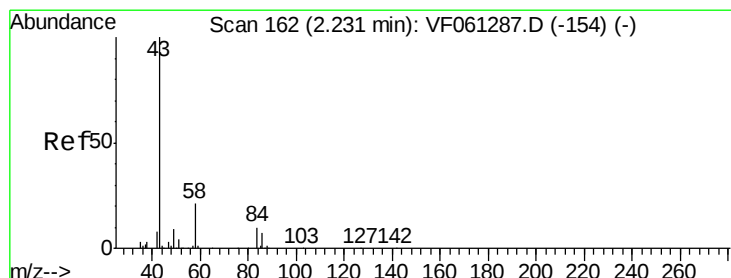
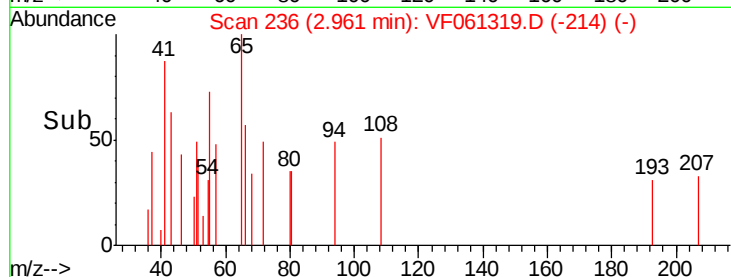
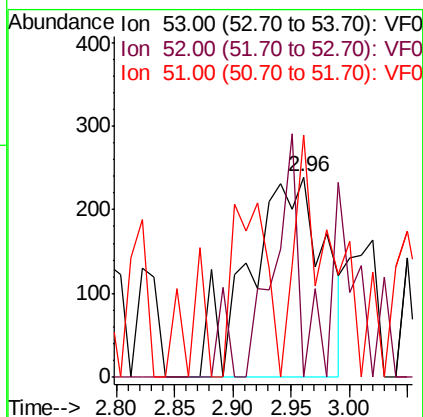
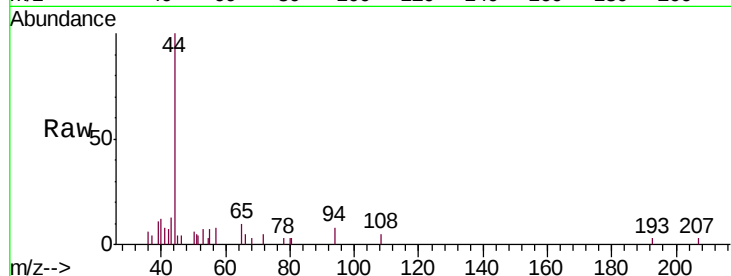
Tgt Ion: 53 Resp: 1062

Ion Ratio Lower Upper

53 100

52 0.0 74.6 111.8#

51 120.9 37.8 56.6#



#16

Acetone

Concen: 130.308 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061319.D

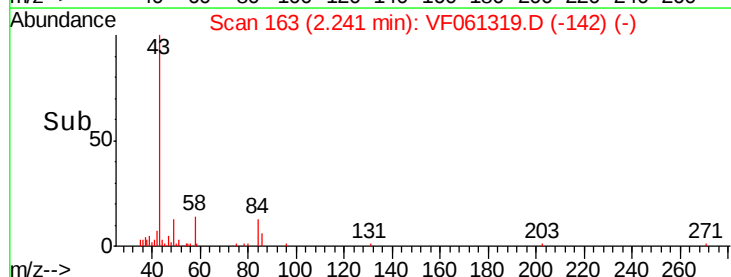
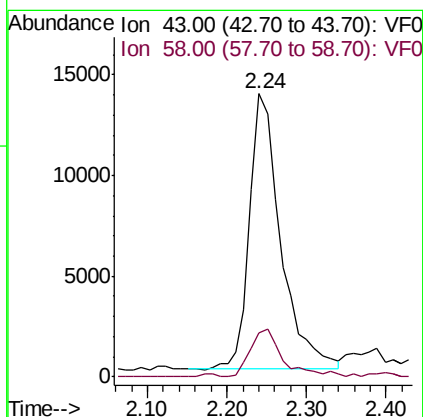
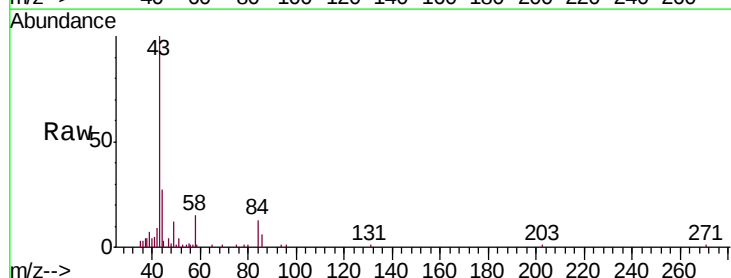
Acq: 10 Jan 2019 1:45

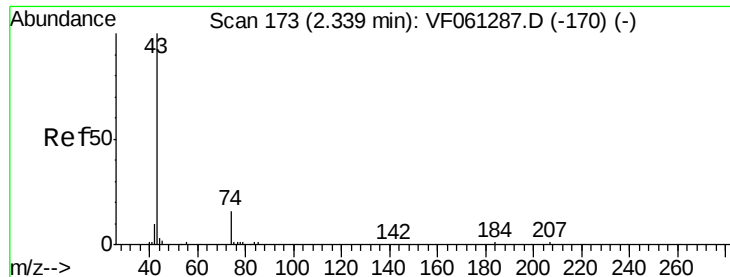
Tgt Ion: 43 Resp: 37009

Ion Ratio Lower Upper

43 100

58 15.5 16.6 25.0#

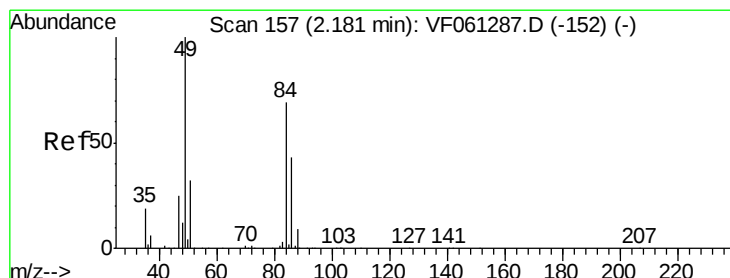
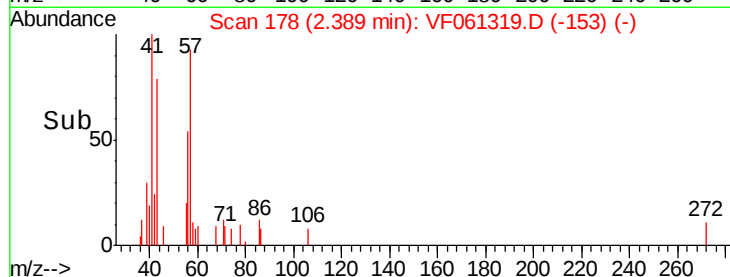
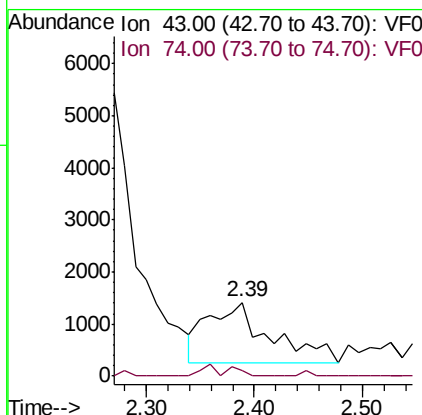
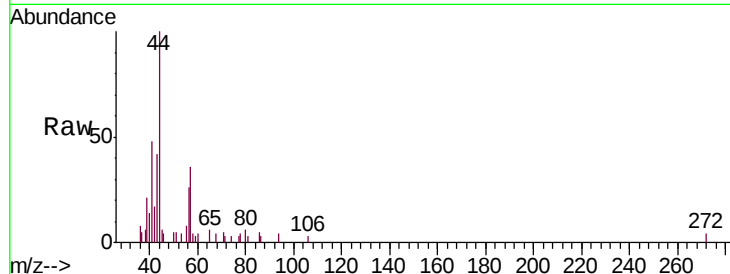




#18
Methyl Acetate
Concen: 8.309 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.05 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

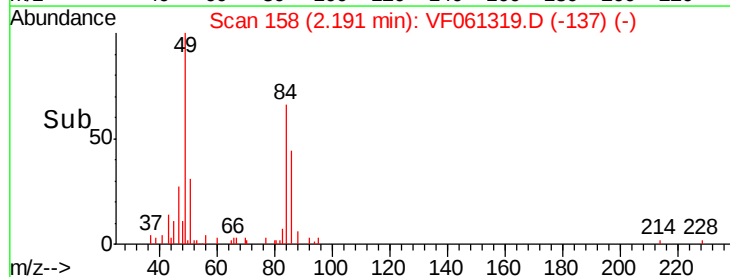
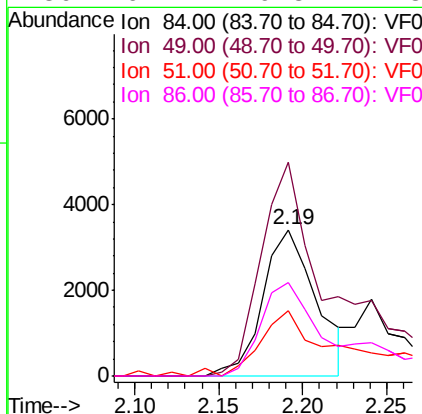
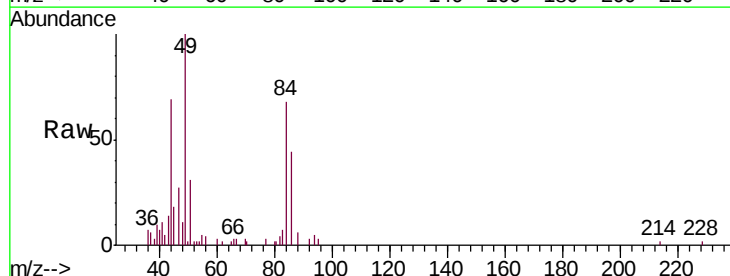
Instrument :
MSVOA_F
ClientSampleId :
SP-1-1

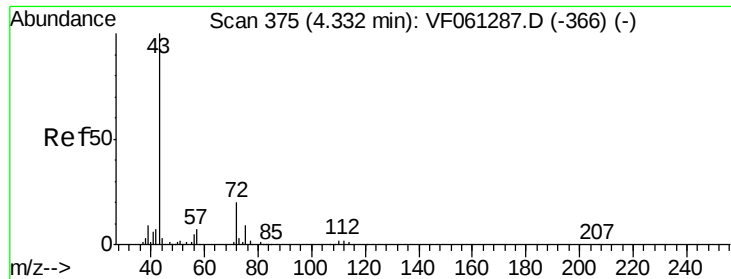
Tgt Ion: 43 Resp: 4643
Ion Ratio Lower Upper
43 100
74 7.6 11.6 17.4#



#20
Methylene Chloride
Concen: 6.274 ug/l
RT: 2.19 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

Tgt Ion: 84 Resp: 7538
Ion Ratio Lower Upper
84 100
49 146.4 116.6 175.0
51 45.0 37.7 56.5
86 64.2 49.8 74.8





#25

2-Butanone

Concen: 29.660 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

Instrument :

MSVOA_F

ClientSampleId :

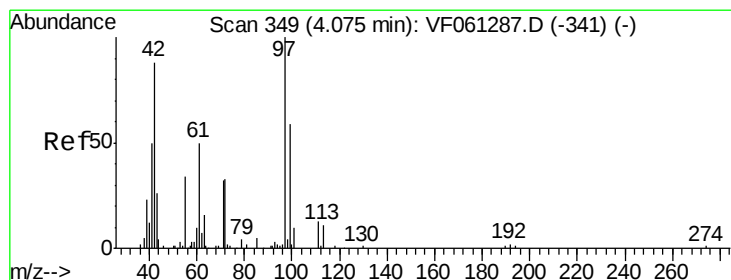
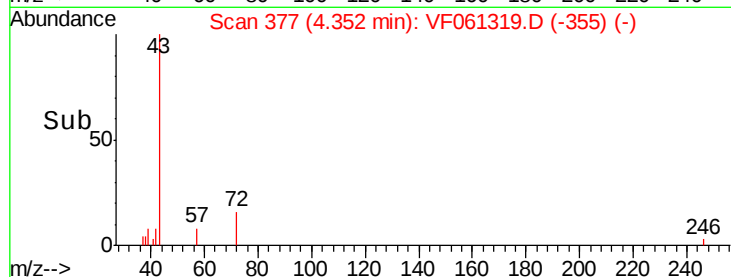
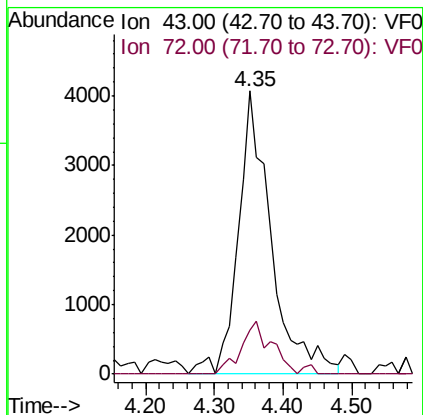
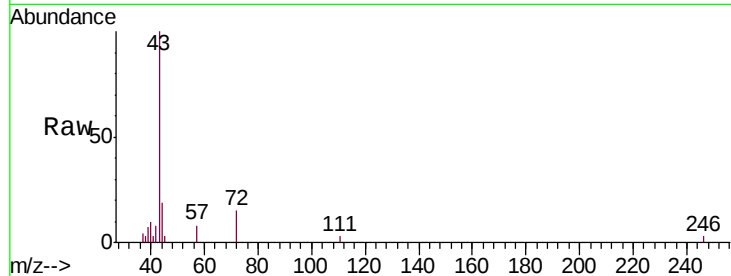
SP-1-1

Tgt Ion: 43 Resp: 13558

Ion Ratio Lower Upper

43 100

72 15.5 16.5 24.7#



#29

Tetrahydrofuran

Concen: 3.715 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

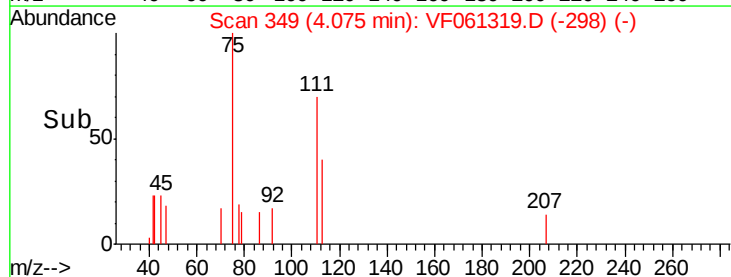
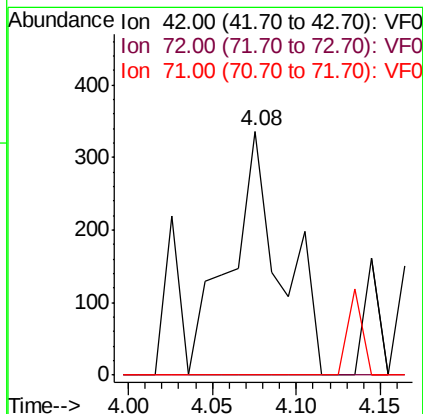
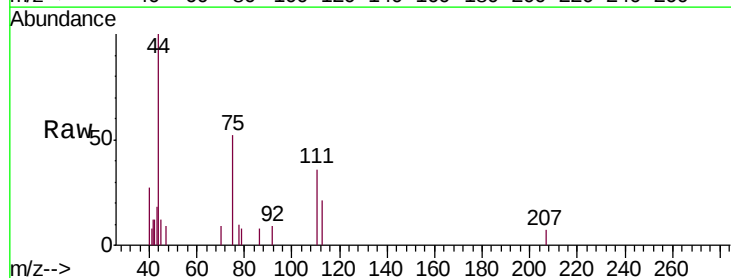
Tgt Ion: 42 Resp: 710

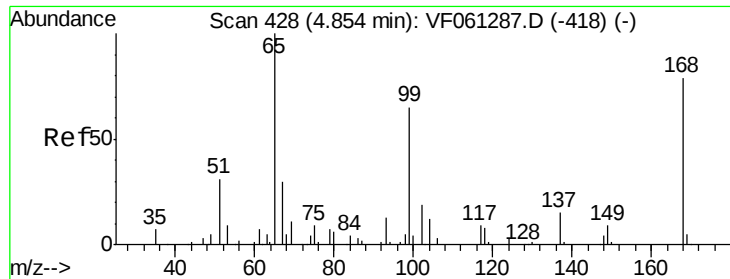
Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 0.0 29.5 44.3#





#33

1,2-Dichloroethane-d4

Concen: 59.417 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

Instrument :

MSVOA_F

ClientSampleId :

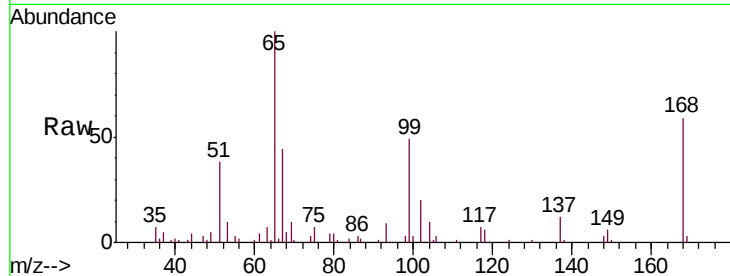
SP-1-1

Tgt Ion: 65 Resp: 72542

Ion Ratio Lower Upper

65 100

67 44.4 0.0 98.2

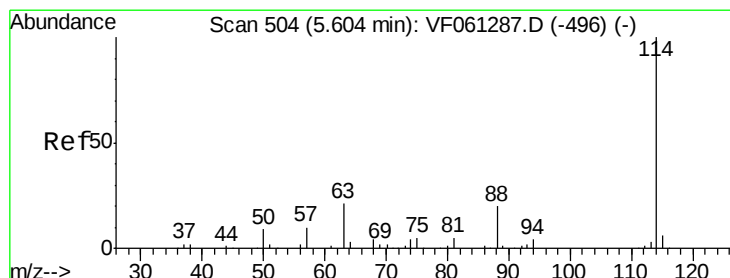
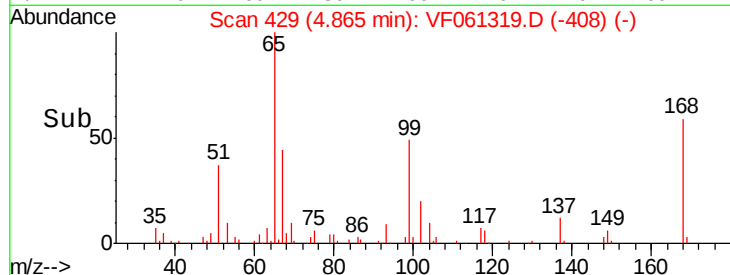


Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

4.86

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

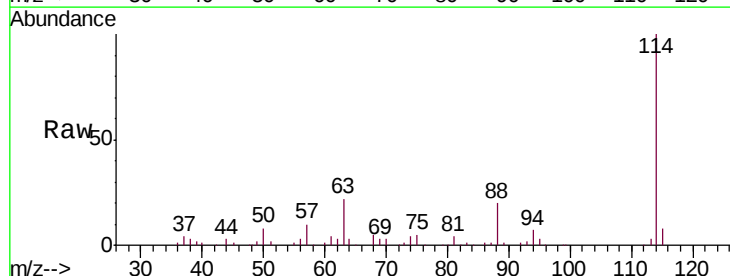
Tgt Ion: 114 Resp: 193577

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.8

88 19.7 0.0 40.0



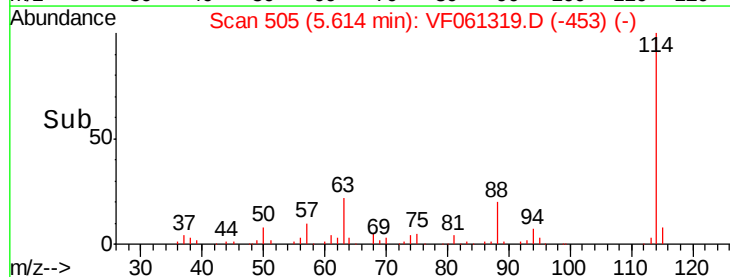
Abundance Ion 114.00 (113.70 to 114.70): V

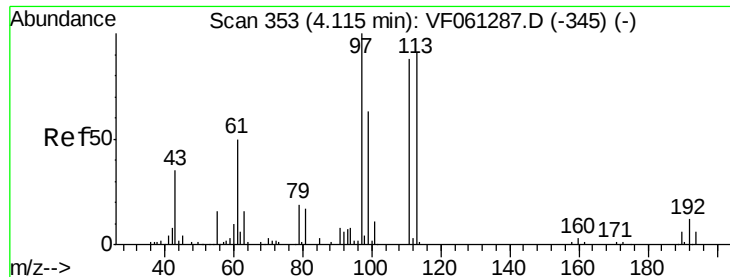
Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.61

Time-->

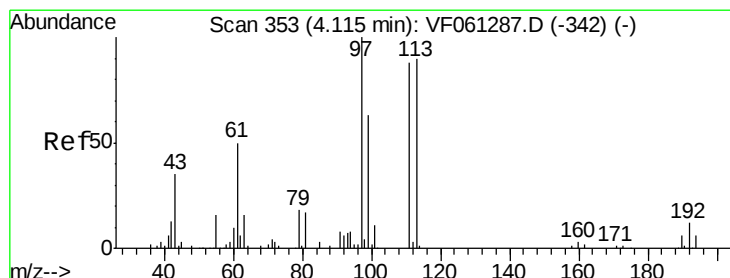
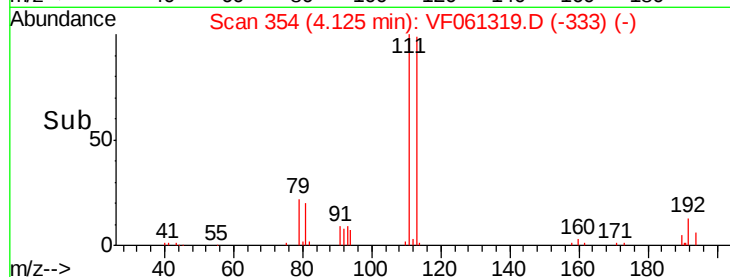
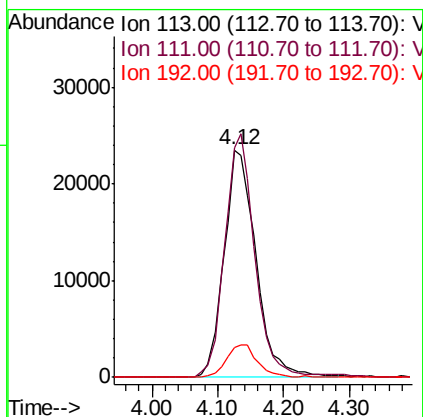
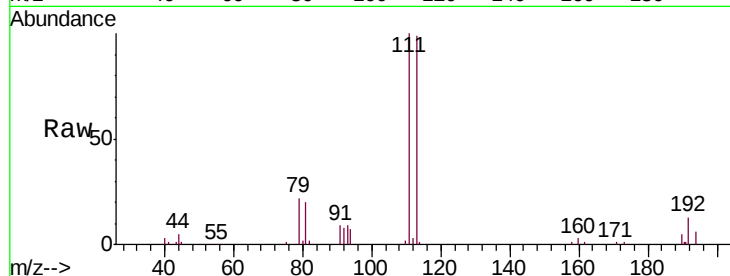




#35
Dibromofluoromethane
Concen: 53.817 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

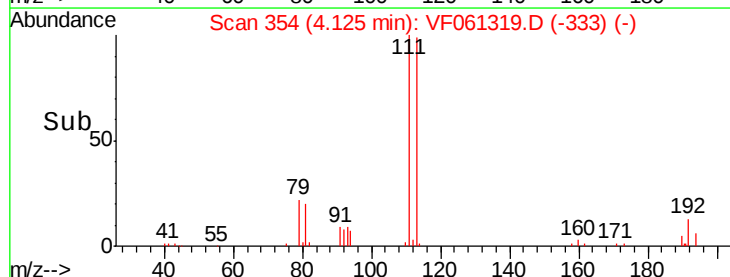
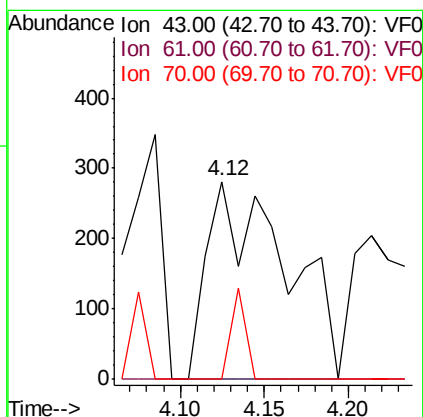
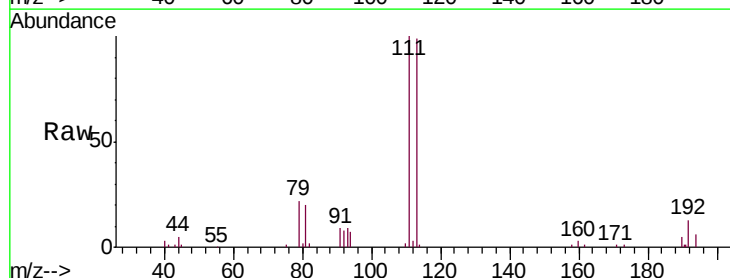
Instrument :
MSVOA_F
ClientSampleId :
SP-1-1

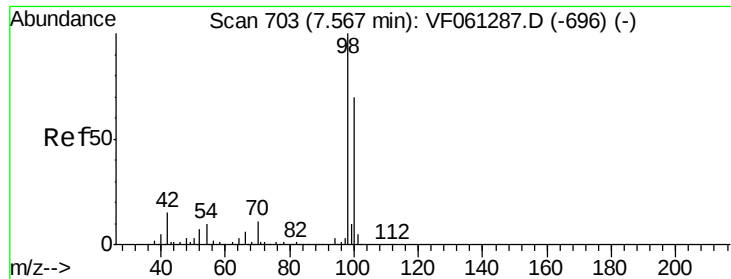
Tgt Ion: 113 Resp: 79713
Ion Ratio Lower Upper
113 100
111 101.0 78.0 117.0
192 12.9 10.6 16.0



#37
Ethyl Acetate
Concen: 1.110 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

Tgt Ion: 43 Resp: 914
Ion Ratio Lower Upper
43 100
61 0.0 113.3 169.9#
70 0.0 9.4 14.0#

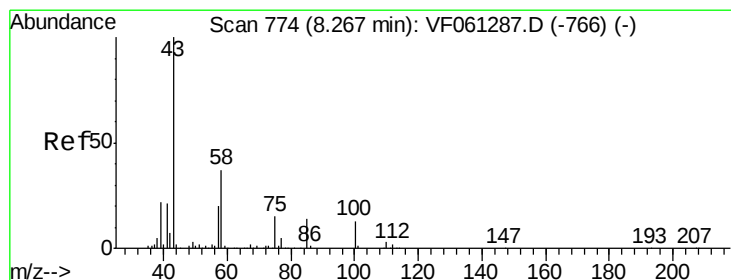
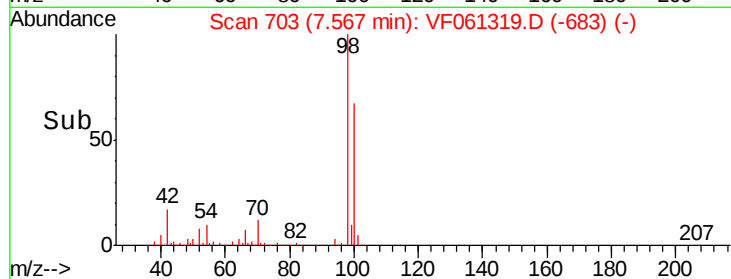
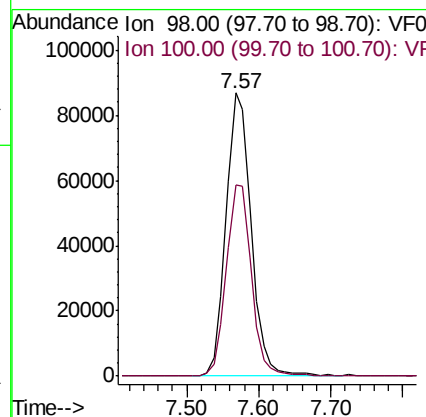
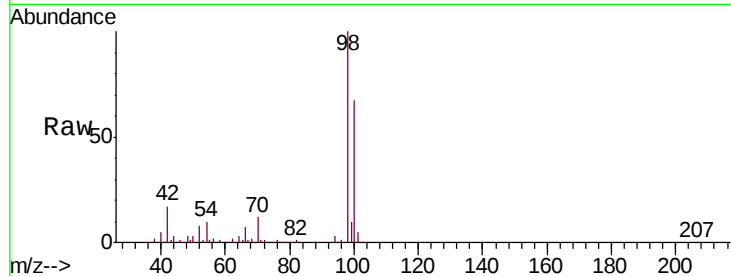




#50
Toluene-d8
Concen: 47.903 ug/l
RT: 7.57 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

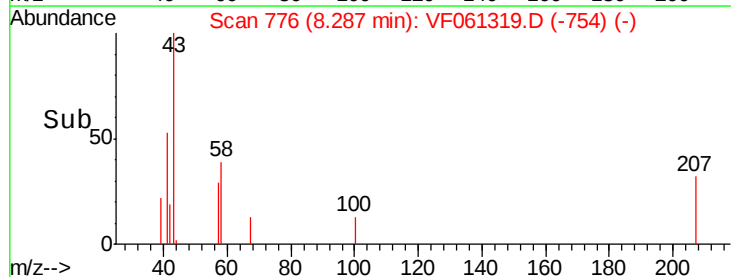
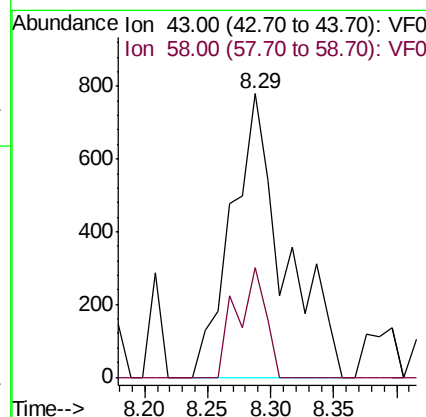
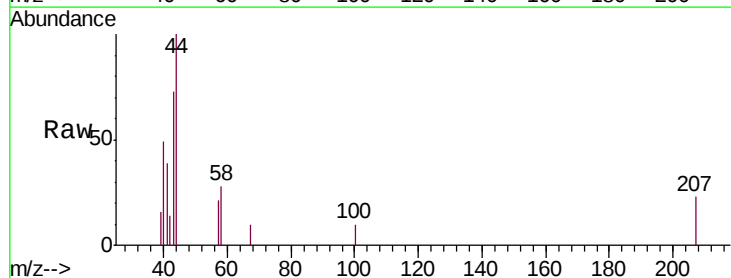
Instrument :
MSVOA_F
ClientSampleId :
SP-1-1

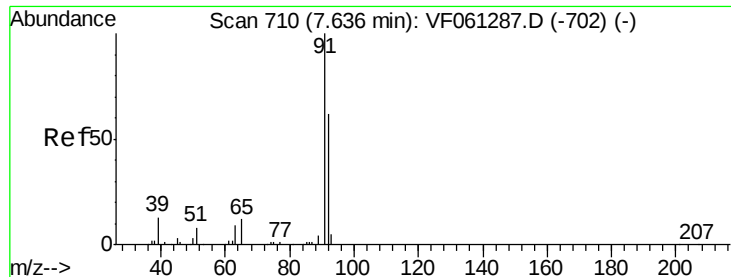
Tgt Ion: 98 Resp: 209970
Ion Ratio Lower Upper
98 100
100 67.4 55.6 83.4



#51
4-Methyl-2-Pentanone
Concen: 2.757 ug/l
RT: 8.29 min Scan# 776
Delta R.T. 0.02 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

Tgt Ion: 43 Resp: 2262
Ion Ratio Lower Upper
43 100
58 38.6 29.6 44.4





#52

Toluene

Concen: 1.759 ug/l

RT: 7.64 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

Instrument :

MSVOA_F

ClientSampleId :

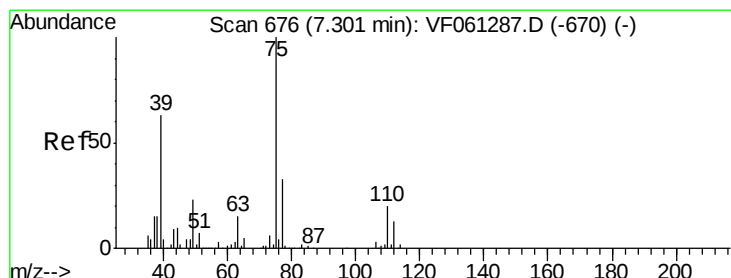
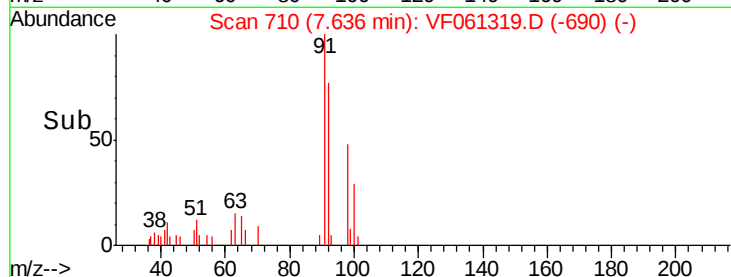
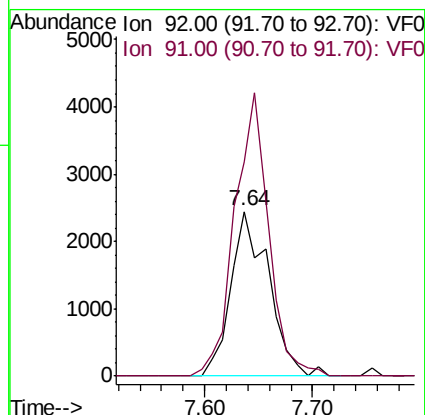
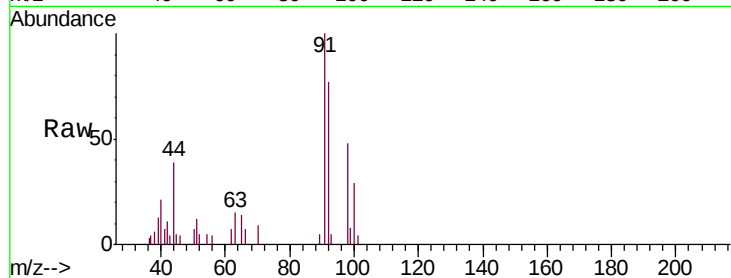
SP-1-1

Tgt Ion: 92 Resp: 5968

Ion Ratio Lower Upper

92 100

91 130.0 129.2 193.8



#58

2-Chloroethyl Vinyl ether

Concen: 1.681 ug/l

RT: 7.38 min Scan# 684

Delta R.T. 0.08 min

Lab File: VF061319.D

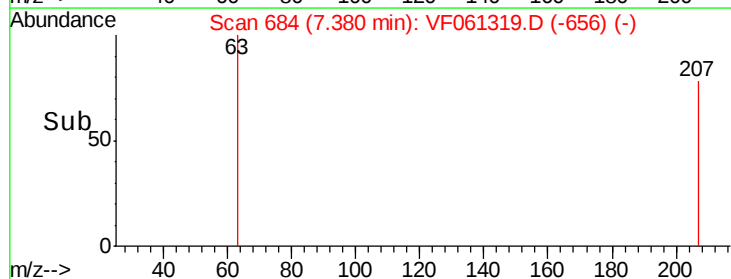
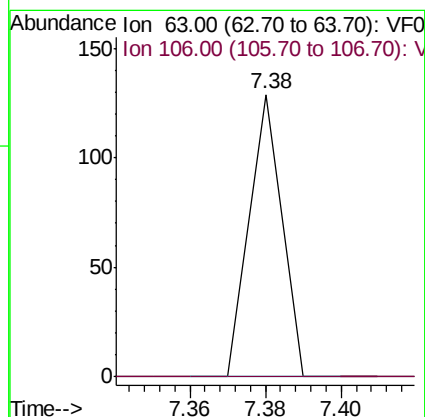
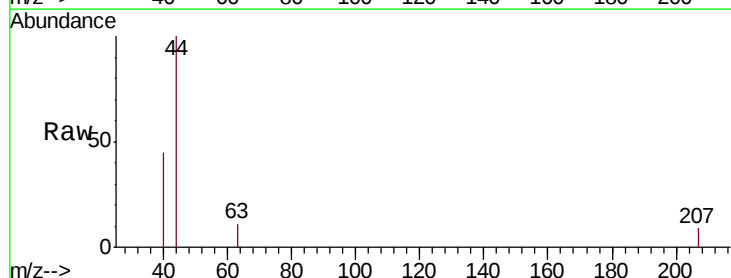
Acq: 10 Jan 2019 1:45

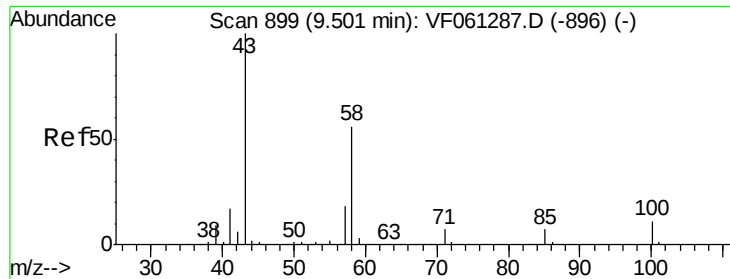
Tgt Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

106 0.0 16.5 24.7#

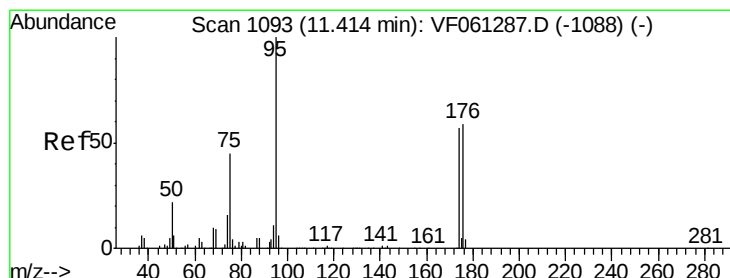
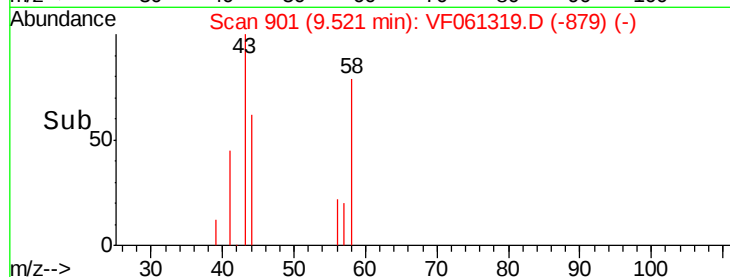
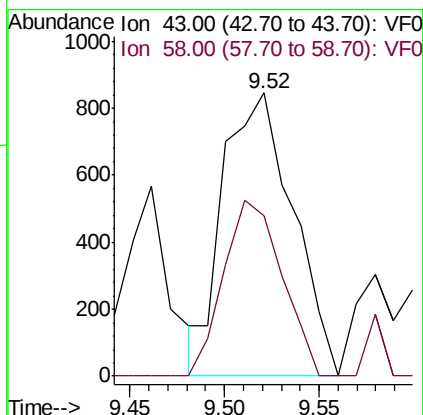
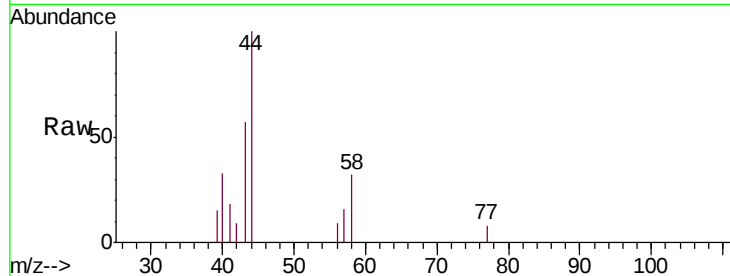




#59
2-Hexanone
Concen: 3.722 ug/l
RT: 9.52 min Scan# 901
Delta R.T. 0.02 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

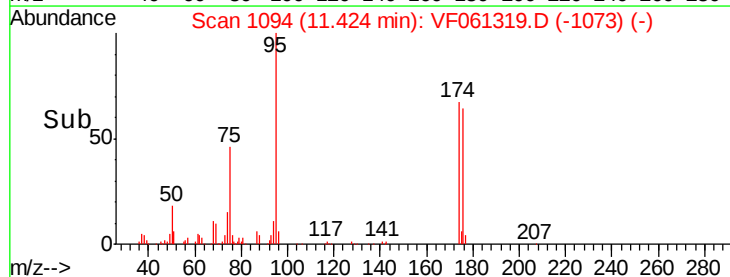
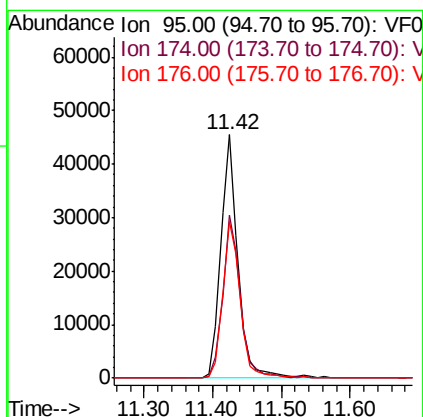
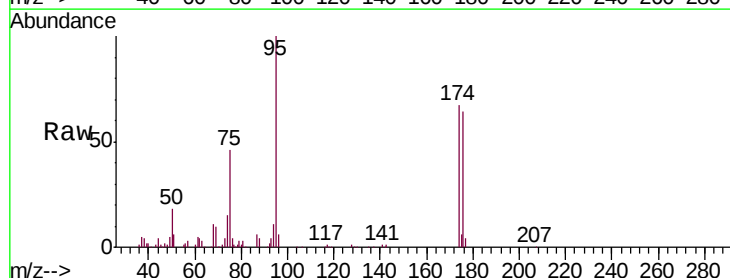
Instrument :
MSVOA_F
ClientSampled :
SP-1-1

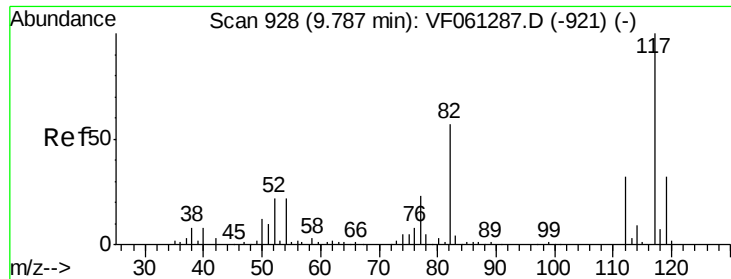
Tgt Ion: 43 Resp: 2163
Ion Ratio Lower Upper
43 100
58 56.6 25.6 76.8



#62
4-Bromofluorobenzene
Concen: 41.119 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

Tgt Ion: 95 Resp: 78700
Ion Ratio Lower Upper
95 100
174 66.9 0.0 114.2
176 64.4 0.0 117.8

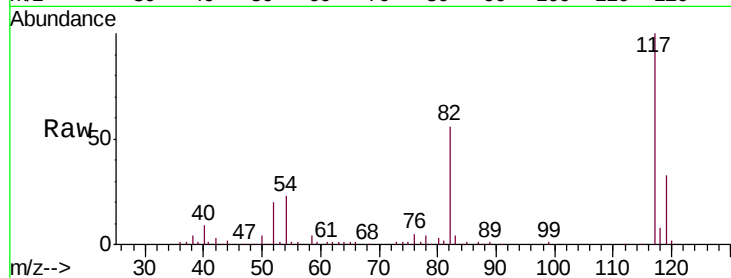




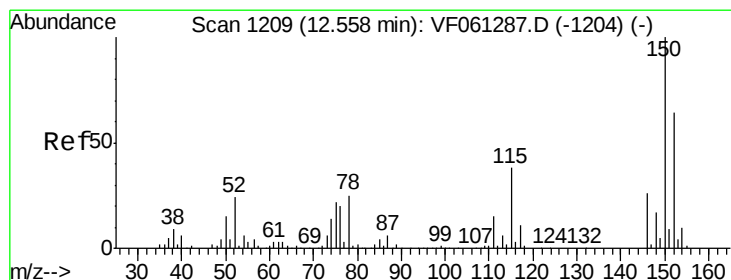
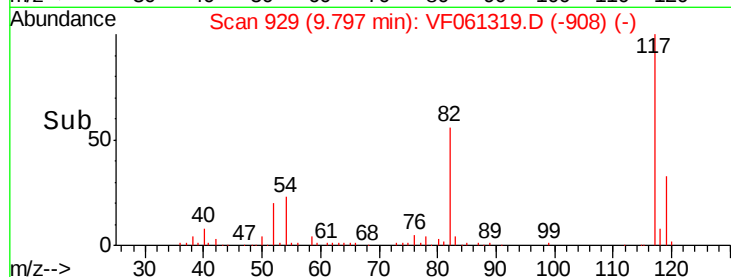
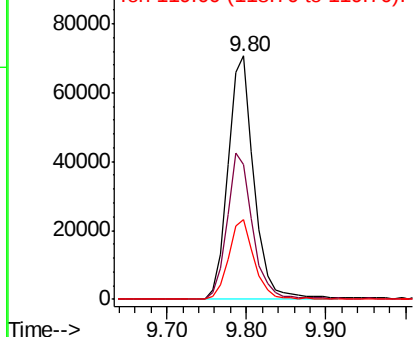
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

Instrument :
MSVOA_F
ClientSampleId :
SP-1-1

Tgt Ion:117 Resp: 161283
Ion Ratio Lower Upper
117 100
82 55.6 45.3 67.9
119 33.0 25.4 38.0

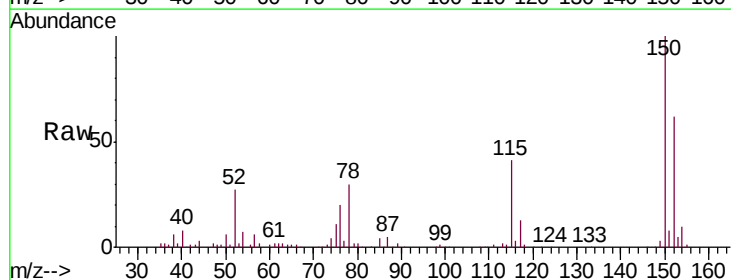


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

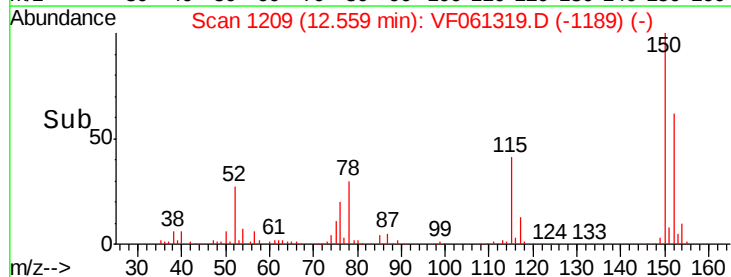
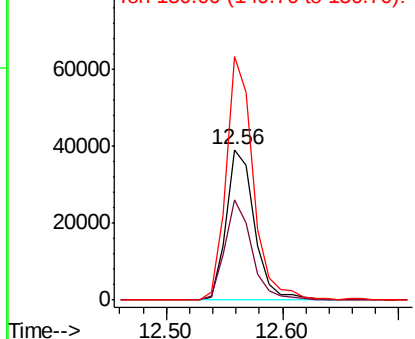


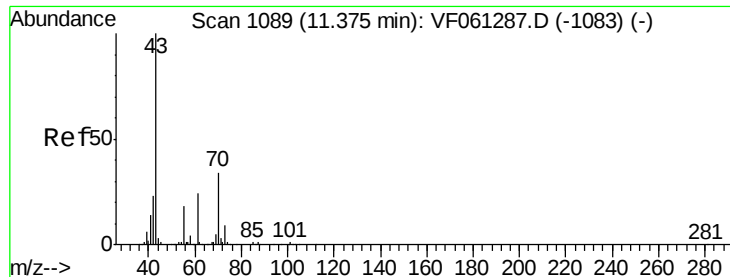
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF061319.D
Acq: 10 Jan 2019 1:45

Tgt Ion:152 Resp: 66091
Ion Ratio Lower Upper
152 100
115 66.2 29.6 88.9
150 161.6 0.0 315.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-ethyl acetate

Concen: 1.660 ug/l

RT: 11.38 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

Instrument :

MSVOA_F

ClientSampleId :

SP-1-1

Tgt Ion: 43 Resp: 2195

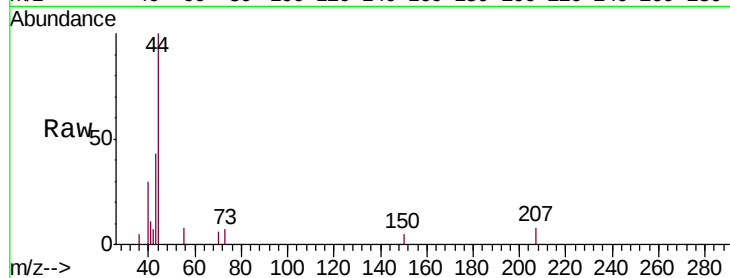
Ion Ratio Lower Upper

43 100

70 12.8 27.4 41.0#

55 18.1 14.7 22.1

61 0.0 19.0 28.4#

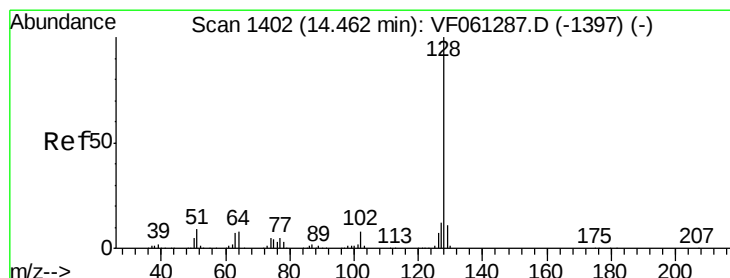
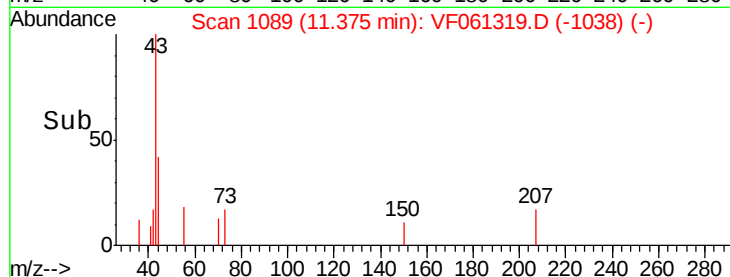
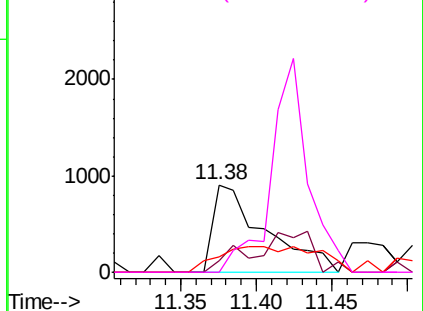


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#95

Naphthalene

Concen: 1.412 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. 0.01 min

Lab File: VF061319.D

Acq: 10 Jan 2019 1:45

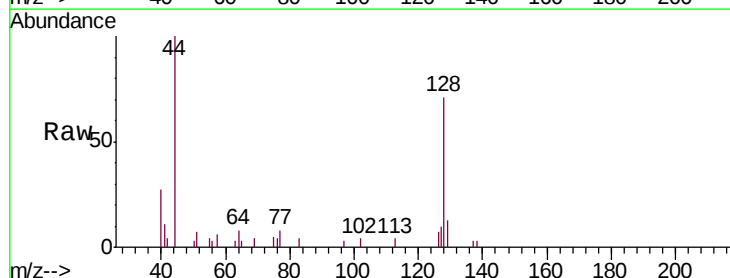
Tgt Ion: 128 Resp: 3950

Ion Ratio Lower Upper

128 100

127 13.6 9.4 14.0

129 17.9 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

