

Data File : VF061310.D
Acq On : 9 Jan 2019 19:32
Operator : VA/AP
Sample : K1082-03
Misc : 7.35g/5mL/MSVOA-F/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
SP-1-2

Quant Time: Jan 10 05:58:52 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	57900	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.62	114	74311	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	52657	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	16498	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	13362	20.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.46%	
35) Dibromofluoromethane	4.13	113	21791	38.32	ug/l	0.01
Spiked Amount	50.000		Recovery	=	76.64%	
50) Toluene-d8	7.57	98	74588	44.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.66%	
62) 4-Bromofluorobenzene	11.43	95	19945	27.15	ug/l	0.01
Spiked Amount	50.000		Recovery	=	54.30%	

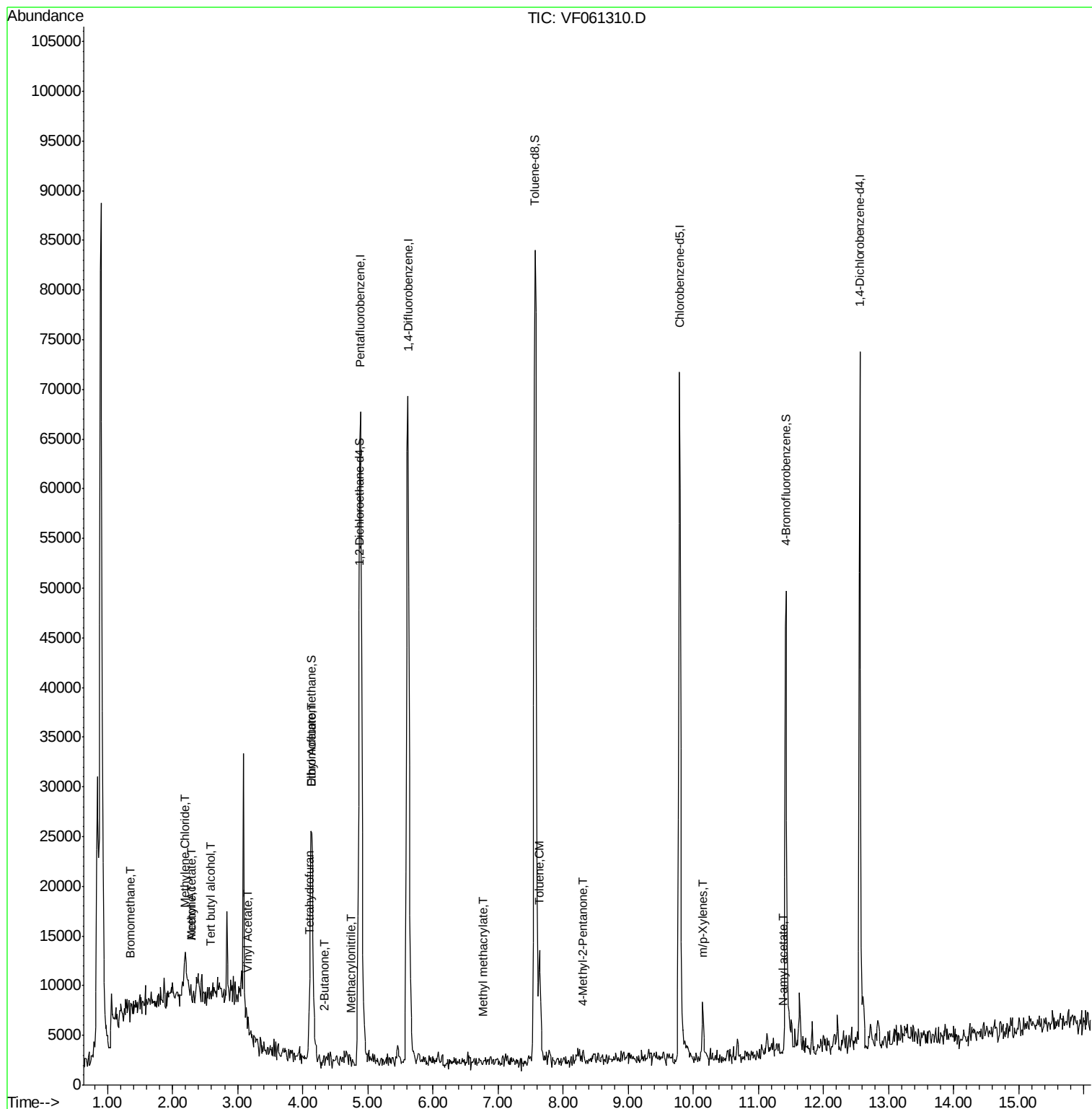
Target Compounds			Qvalue			
5) Bromomethane	1.36	94	308	3.304	ug/l	85
11) Tert butyl alcohol	2.59	59	60	2.325	ug/l #	1
13) Acrolein	2.09	56	507	Below Cal		90
16) Acetone	2.28	43	1975	13.174	ug/l	93
18) Methyl Acetate	2.28	43	2057	6.974	ug/l #	65
20) Methylene Chloride	2.20	84	2259	3.562	ug/l #	95
23) Vinyl Acetate	3.16	43	1397	2.220	ug/l #	77
25) 2-Butanone	4.34	43	383	1.587	ug/l #	56
29) Tetrahydrofuran	4.10	42	234	2.319	ug/l #	36
37) Ethyl Acetate	4.14	43	582	1.842	ug/l #	1
41) Methacrylonitrile	4.75	41	231	1.309	ug/l #	24
48) Methyl methacrylate	6.76	41	299	1.104	ug/l #	21
51) 4-Methyl-2-Pentanone	8.31	43	487	1.546	ug/l #	38
52) Toluene	7.64	92	5354	4.112	ug/l	98
68) m/p-Xylenes	10.16	106	1907	2.667	ug/l #	56
74) N-amyl acetate	11.38	43	356	1.079	ug/l #	48

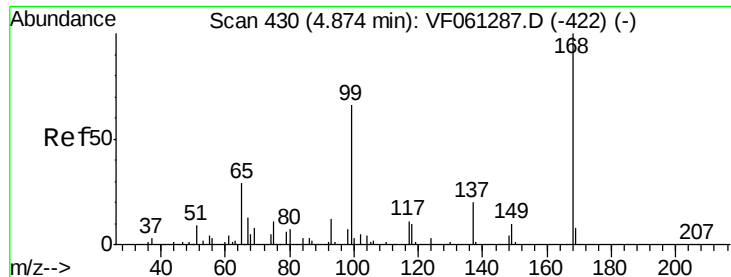
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061310.D

Acq: 9 Jan 2019 19:32

Instrument :

MSVOA_F

ClientSampleId :

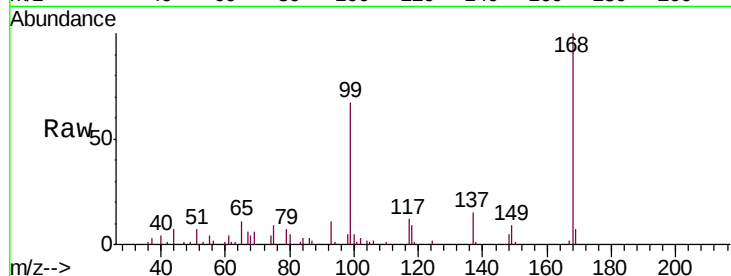
SP-1-2

Tgt Ion:168 Resp: 57900

Ion Ratio Lower Upper

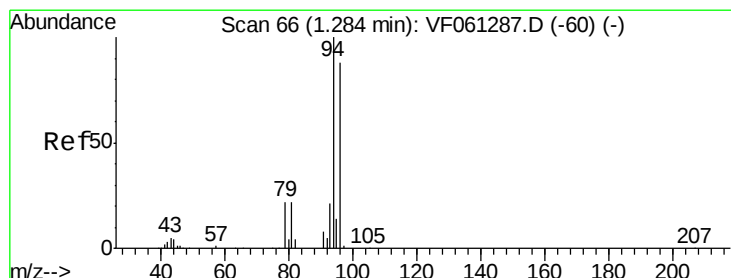
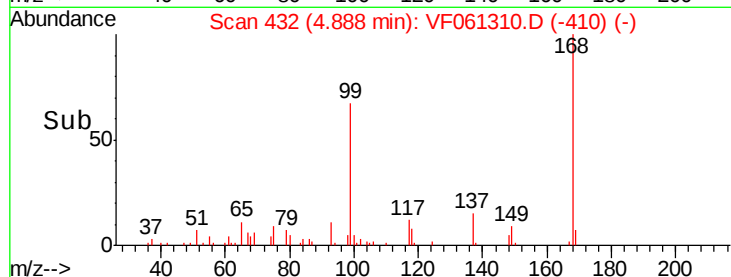
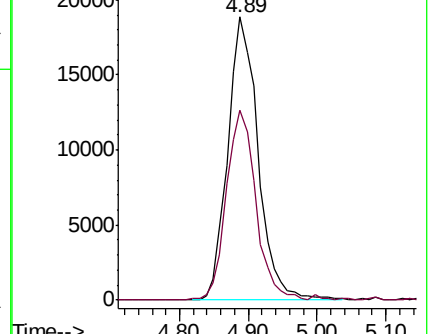
168 100

99 67.3 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#5

Bromomethane

Concen: 3.304 ug/l

RT: 1.36 min Scan# 74

Delta R.T. 0.07 min

Lab File: VF061310.D

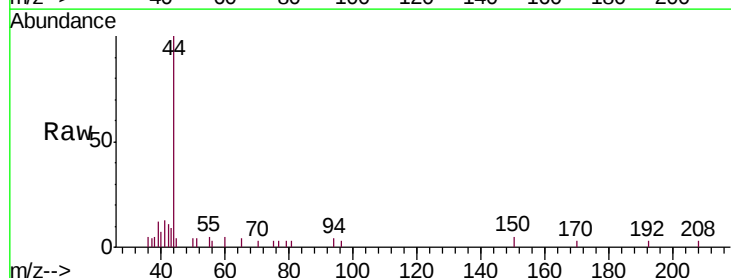
Acq: 9 Jan 2019 19:32

Tgt Ion: 94 Resp: 308

Ion Ratio Lower Upper

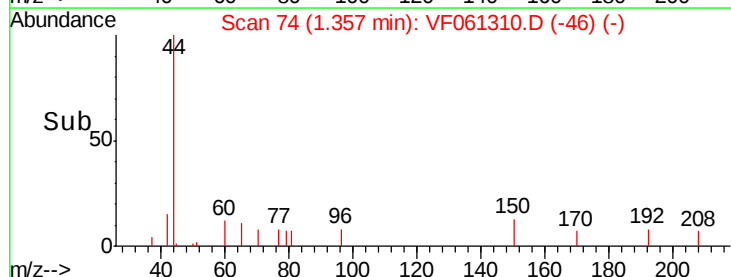
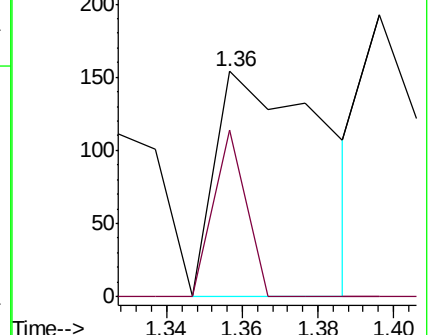
94 100

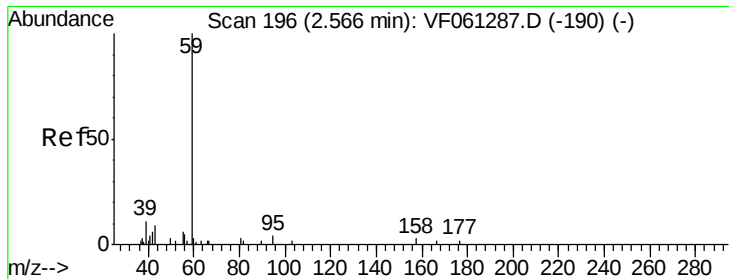
96 74.0 70.2 105.4



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

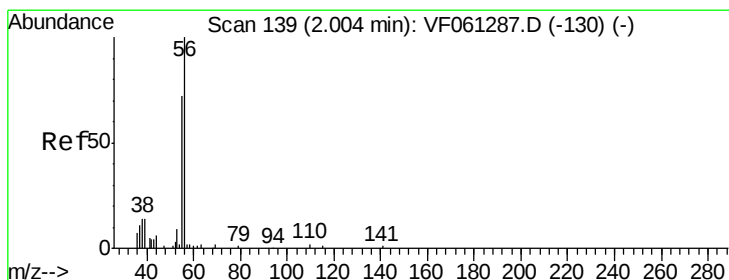
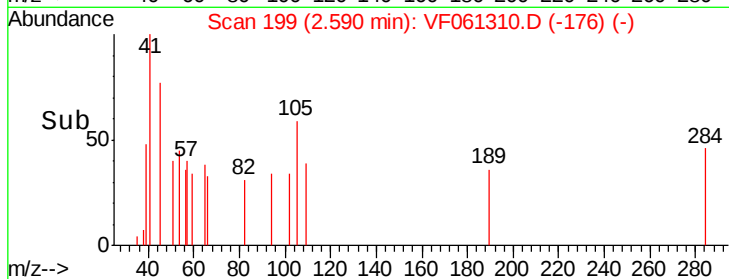
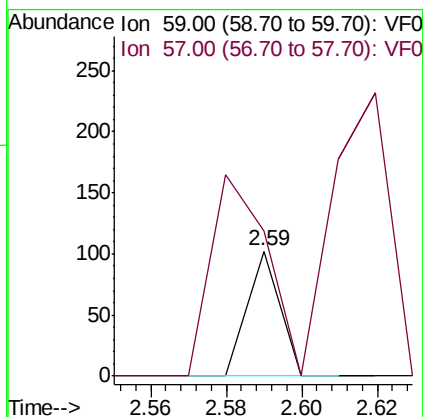
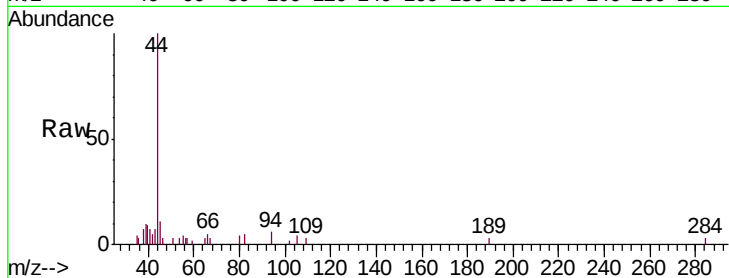




#11
Tert butyl alcohol
Concen: 2.325 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.02 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

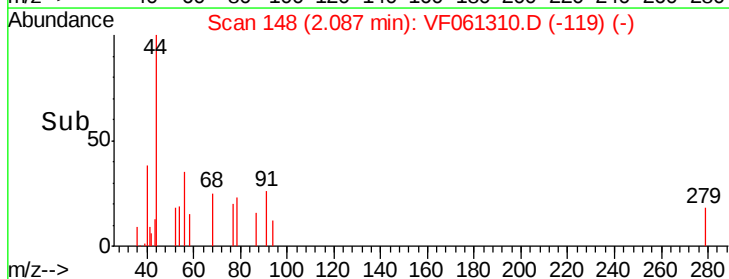
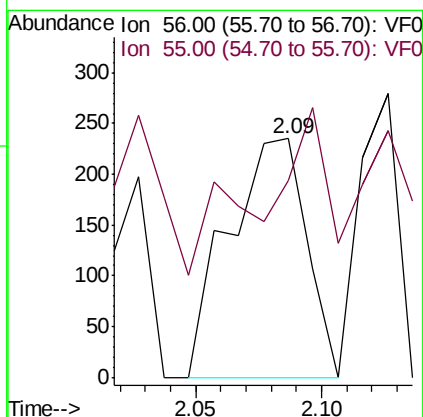
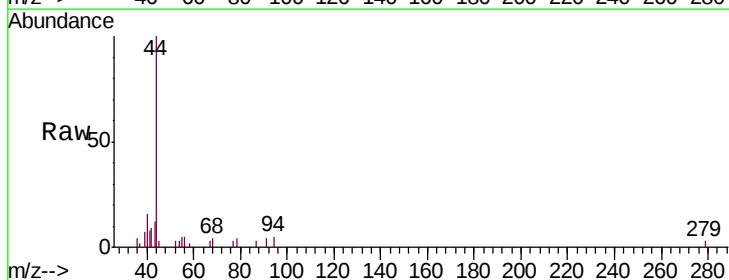
Instrument :
MSVOA_F
ClientSampleId :
SP-1-2

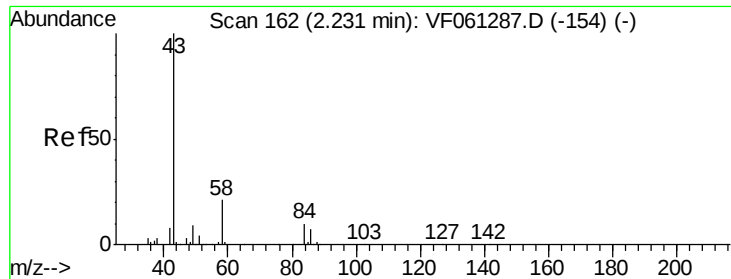
Tgt Ion: 59 Resp: 60
Ion Ratio Lower Upper
59 100
57 116.7 15.1 22.7#



#13
Acrolein
Concen: Below Cal
RT: 2.09 min Scan# 148
Delta R.T. 0.08 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

Tgt Ion: 56 Resp: 507
Ion Ratio Lower Upper
56 100
55 82.6 59.4 89.0





#16

Acetone

Concen: 13.174 ug/l

RT: 2.28 min Scan# 168

Delta R.T. 0.05 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

Instrument :

MSVOA_F

ClientSampleId :

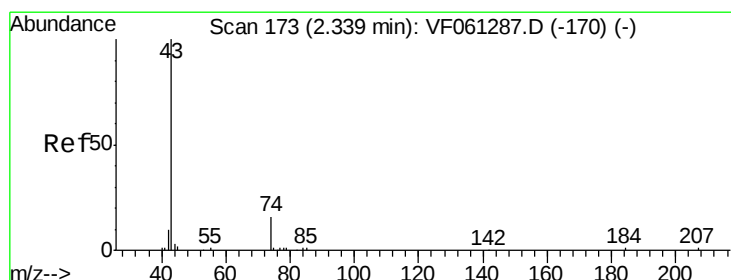
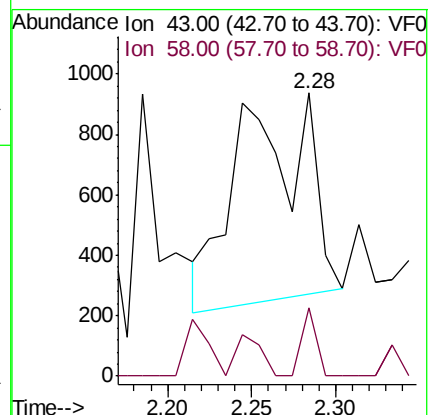
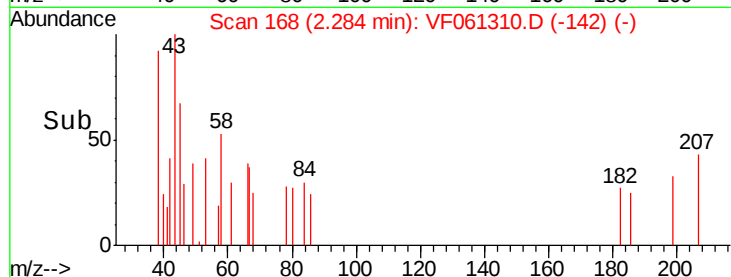
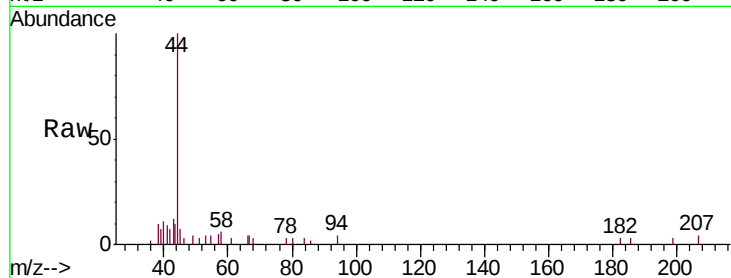
SP-1-2

Tgt Ion: 43 Resp: 1975

Ion Ratio Lower Upper

43 100

58 24.1 16.6 25.0



#18

Methyl Acetate

Concen: 6.974 ug/l

RT: 2.28 min Scan# 168

Delta R.T. -0.06 min

Lab File: VF061310.D

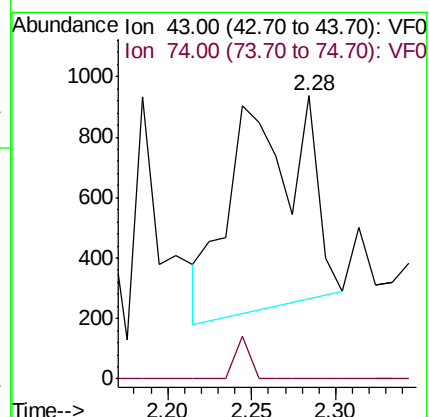
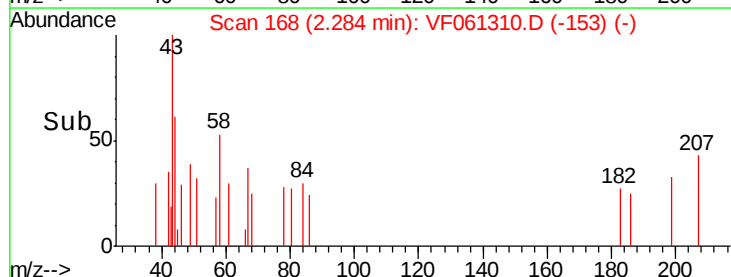
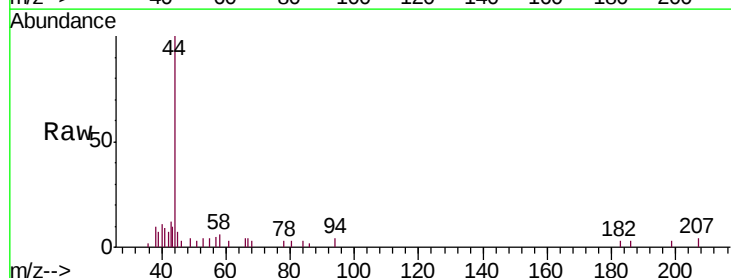
Acq: 9 Jan 2019 19:32

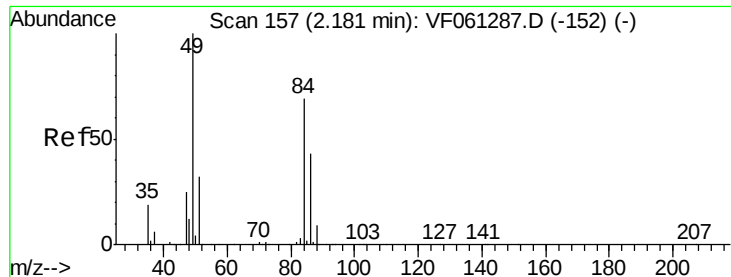
Tgt Ion: 43 Resp: 2057

Ion Ratio Lower Upper

43 100

74 0.0 11.6 17.4#

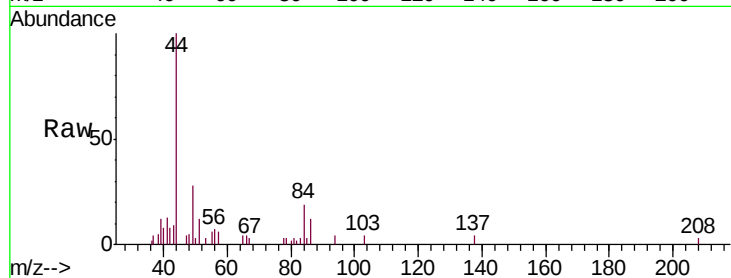




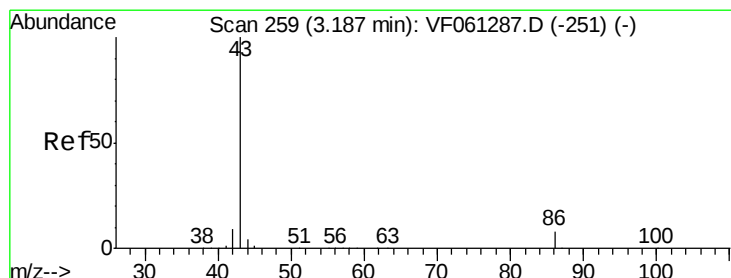
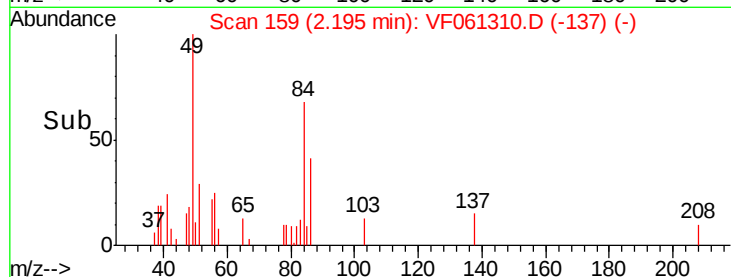
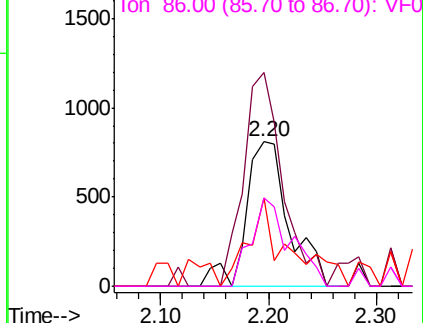
#20
Methylene Chloride
Concen: 3.562 ug/l
RT: 2.20 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

Instrument :
MSVOA_F
ClientSampleId :
SP-1-2

Tgt Ion: 84 Resp: 2259
Ion Ratio Lower Upper
84 100
49 148.1 116.6 175.0
51 61.3 37.7 56.5#
86 61.3 49.8 74.8

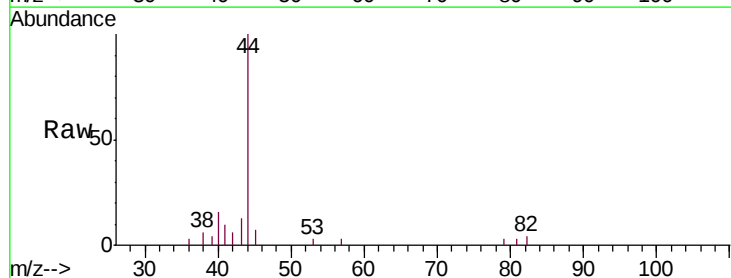


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

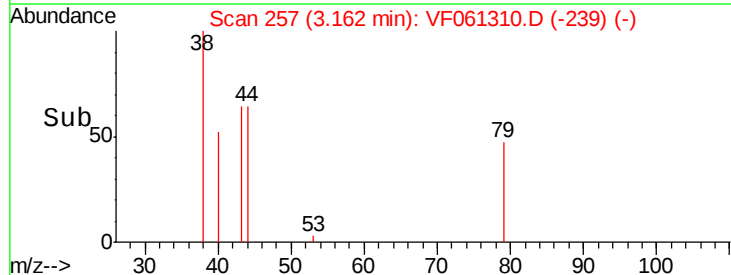
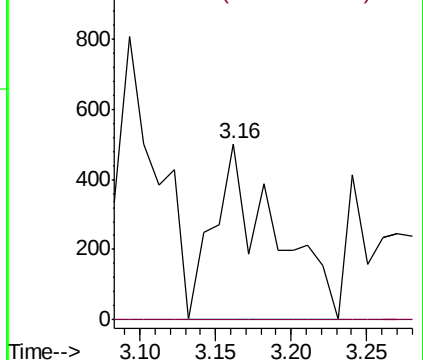


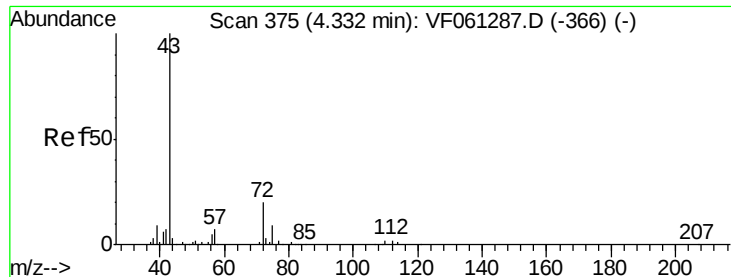
#23
Vinyl Acetate
Concen: 2.220 ug/l
RT: 3.16 min Scan# 257
Delta R.T. -0.03 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

Tgt Ion: 43 Resp: 1397
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 1.587 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.00 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

Instrument :

MSVOA_F

ClientSampleId :

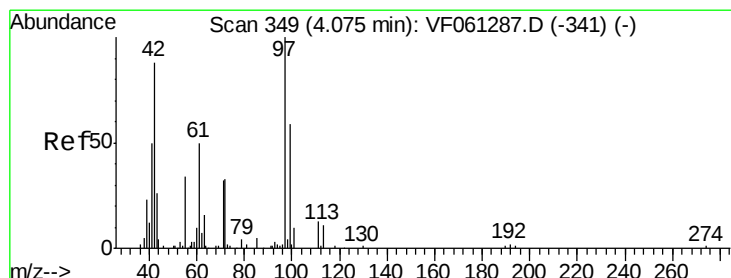
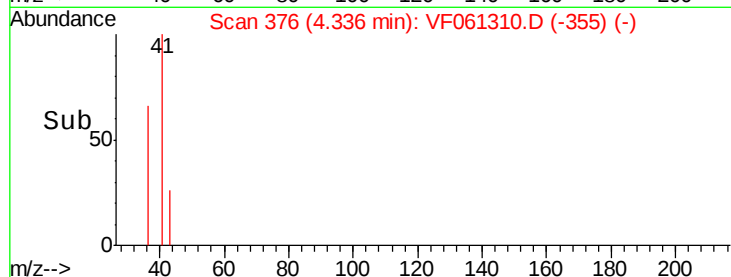
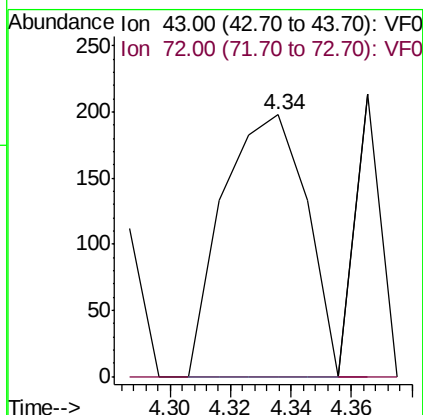
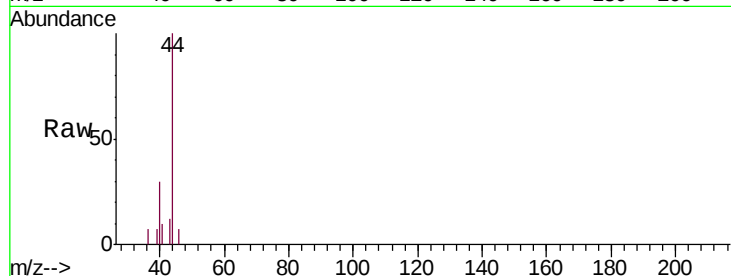
SP-1-2

Tgt Ion: 43 Resp: 383

Ion Ratio Lower Upper

43 100

72 0.0 16.5 24.7#



#29

Tetrahydrofuran

Concen: 2.319 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

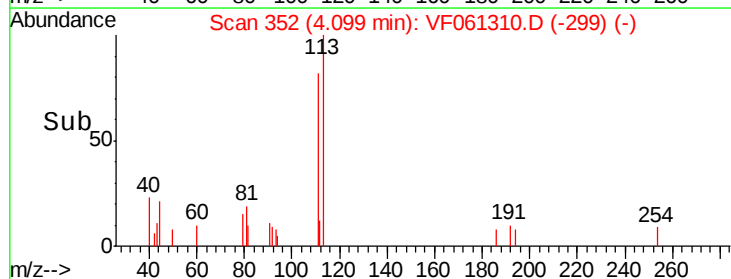
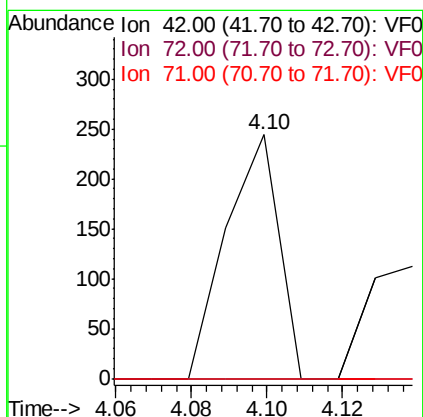
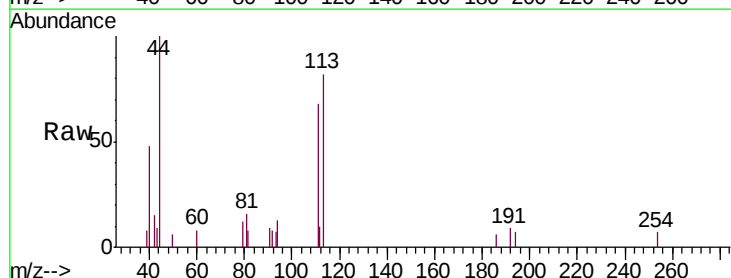
Tgt Ion: 42 Resp: 234

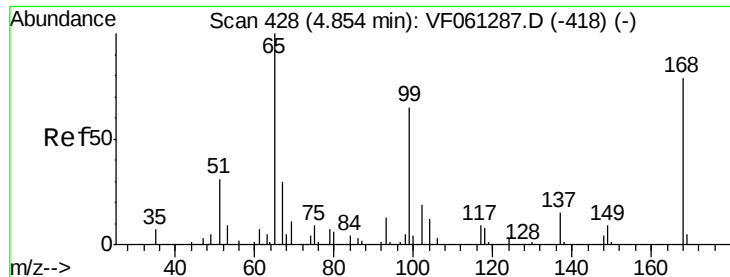
Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 0.0 29.5 44.3#

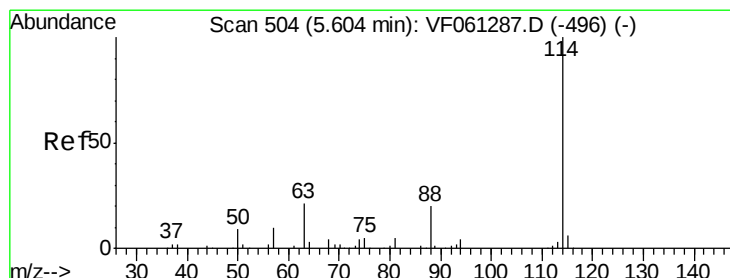
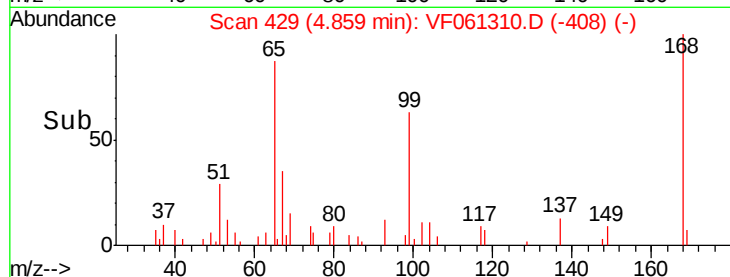
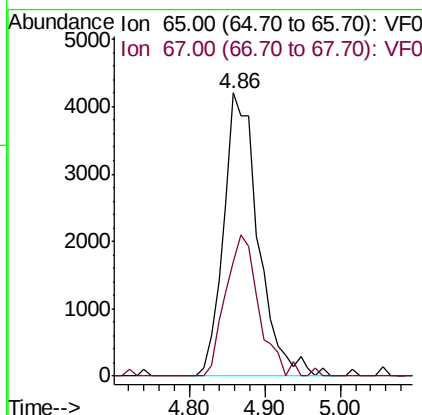
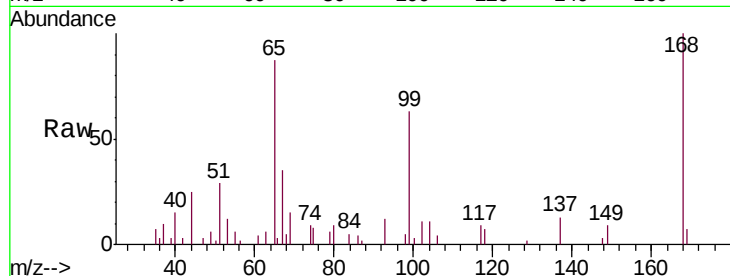




#33
 1,2-Dichloroethane-d4
 Concen: 20.734 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. 0.00 min
 Lab File: VF061310.D
 Acq: 9 Jan 2019 19:32

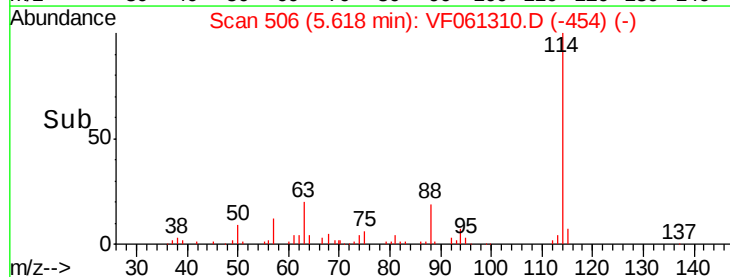
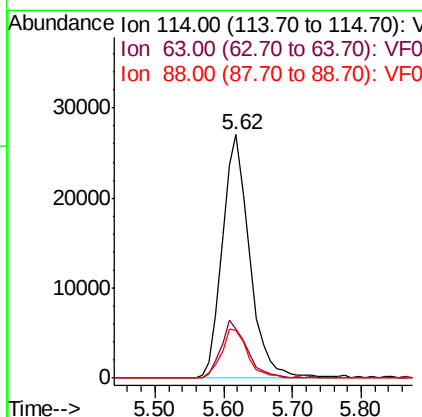
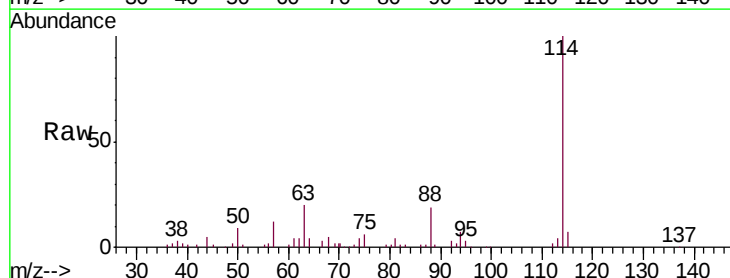
Instrument :
 MSVOA_F
 ClientSampled :
 SP-1-2

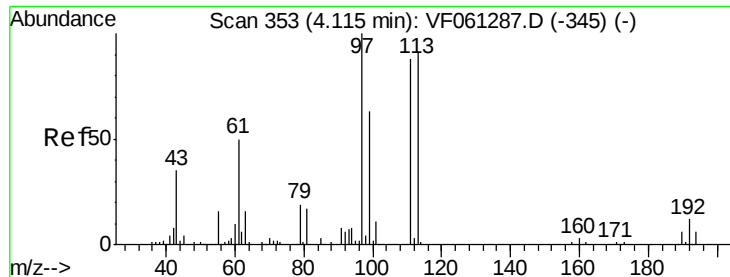
Tgt Ion: 65 Resp: 13362
 Ion Ratio Lower Upper
 65 100
 67 40.5 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VF061310.D
 Acq: 9 Jan 2019 19:32

Tgt Ion: 114 Resp: 74311
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 42.8
 88 19.4 0.0 40.0

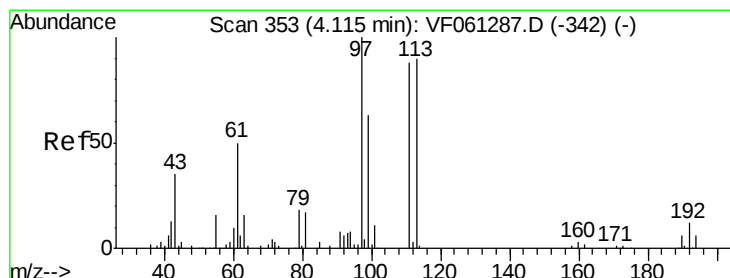
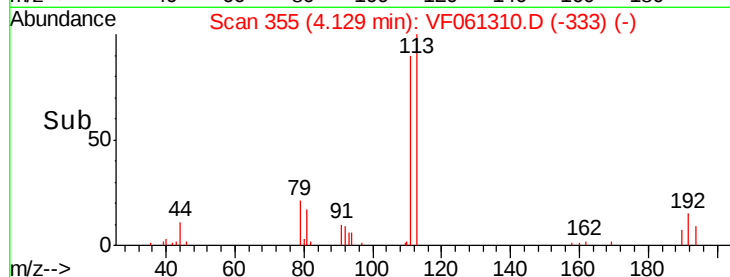
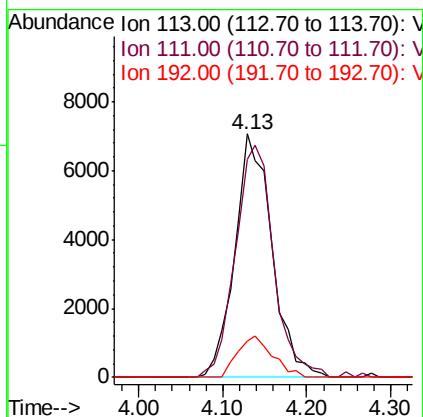
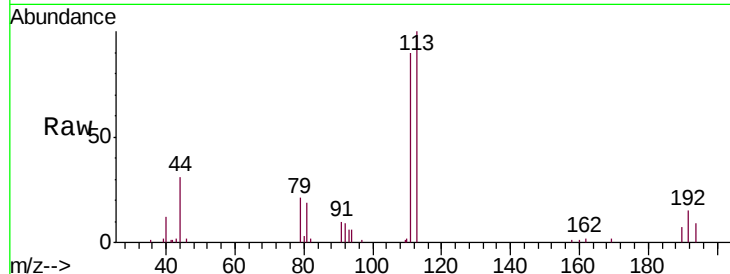




#35
Dibromofluoromethane
Concen: 38.324 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.01 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

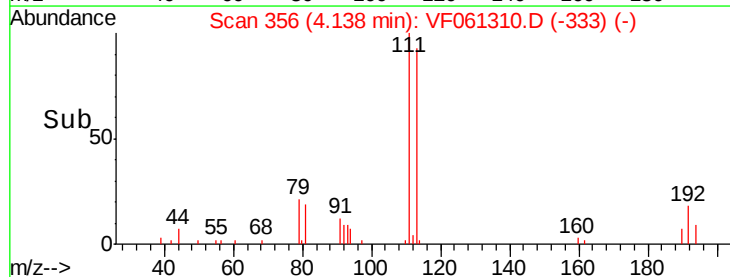
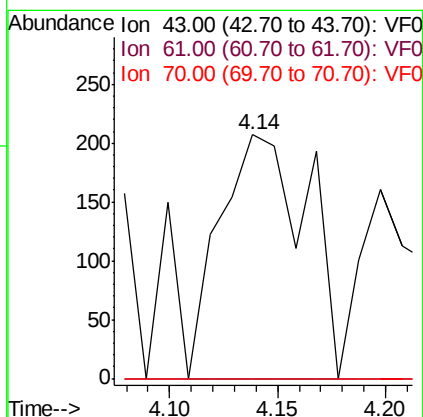
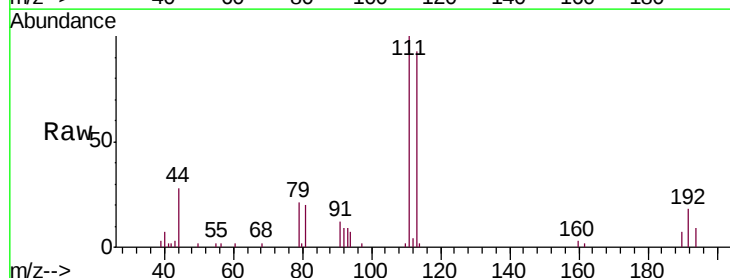
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MSVOA_F
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SP-1-2

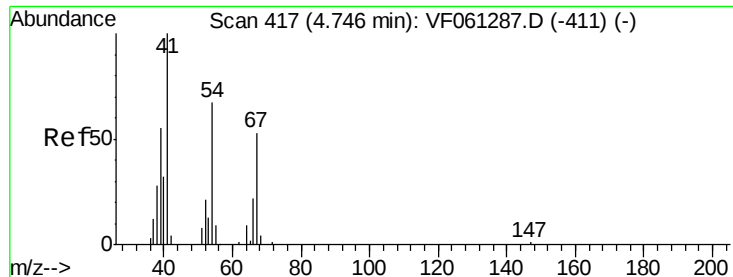
Tgt Ion: 113 Resp: 21791
Ion Ratio Lower Upper
113 100
111 89.6 78.0 117.0
192 14.8 10.6 16.0



#37
Ethyl Acetate
Concen: 1.842 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.02 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

Tgt Ion: 43 Resp: 582
Ion Ratio Lower Upper
43 100
61 0.0 113.3 169.9#
70 0.0 9.4 14.0#





#41

Methacrylonitrile

Concen: 1.309 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.00 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

Instrument :

MSVOA_F

ClientSampled :

SP-1-2

Tgt Ion: 41 Resp: 231

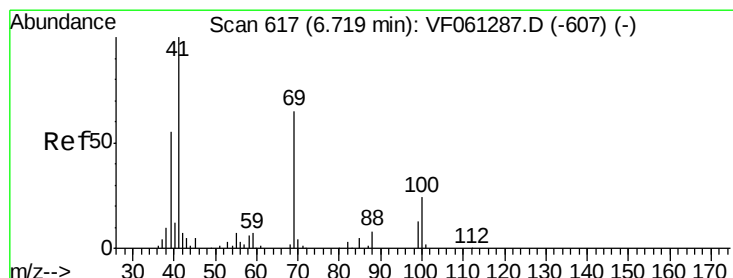
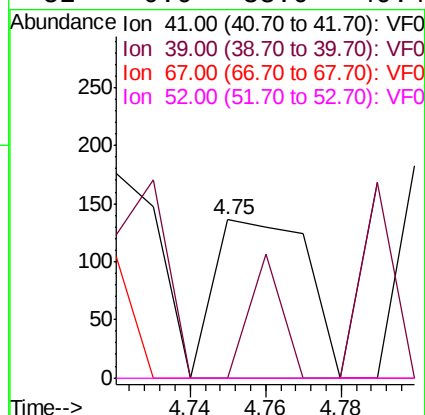
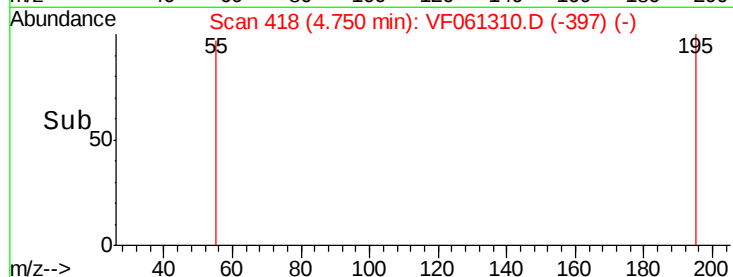
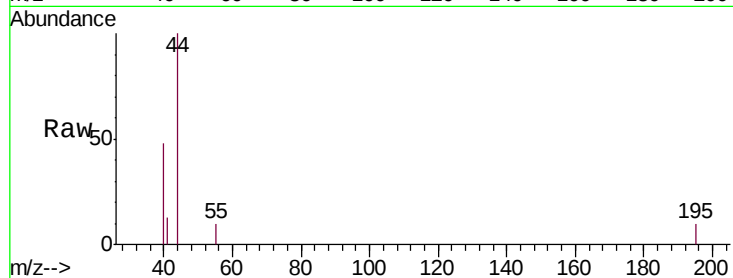
Ion Ratio Lower Upper

41 100

39 0.0 52.7 79.1#

67 0.0 41.4 62.2#

52 0.0 33.0 49.4#



#48

Methyl methacrylate

Concen: 1.104 ug/l

RT: 6.76 min Scan# 622

Delta R.T. 0.04 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

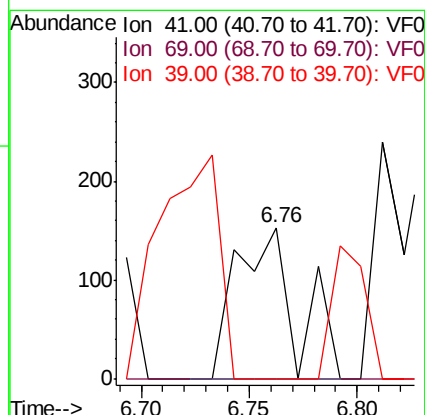
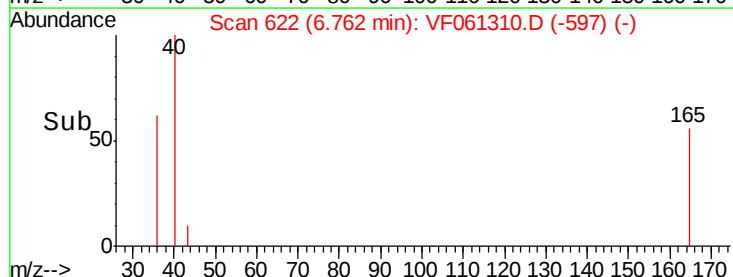
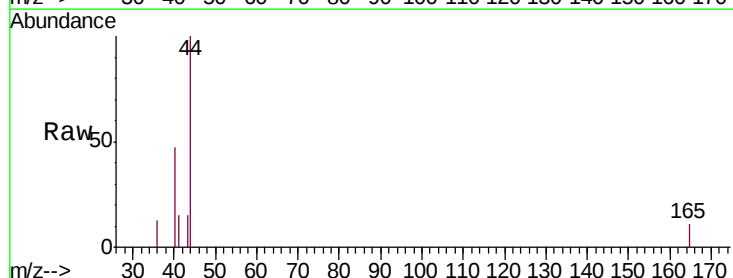
Tgt Ion: 41 Resp: 299

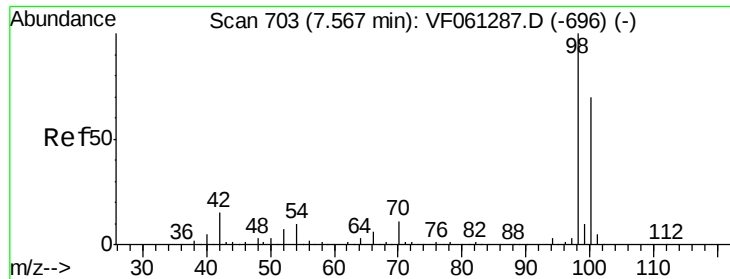
Ion Ratio Lower Upper

41 100

69 0.0 51.5 77.3#

39 0.0 44.1 66.1#

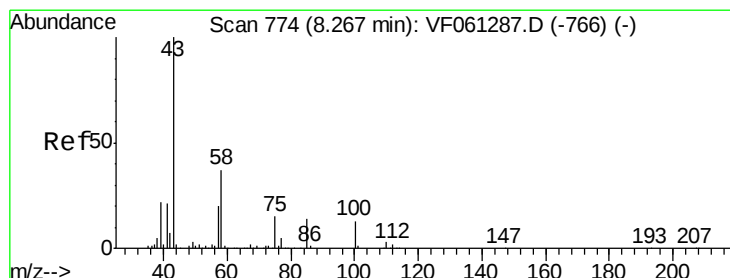
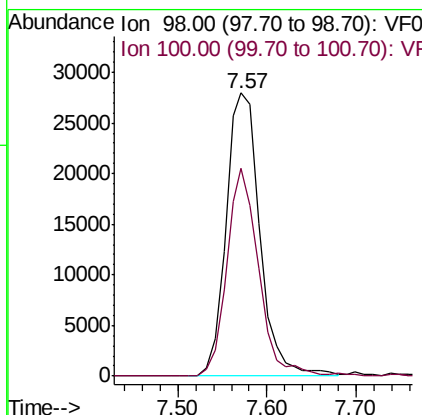
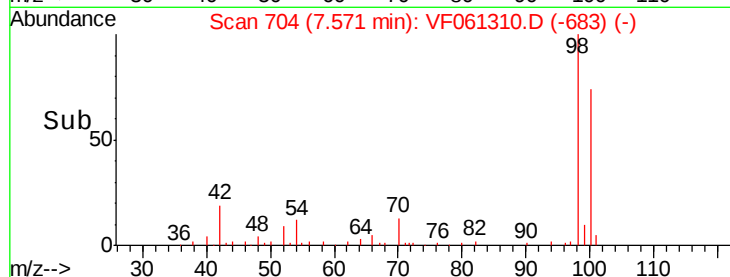
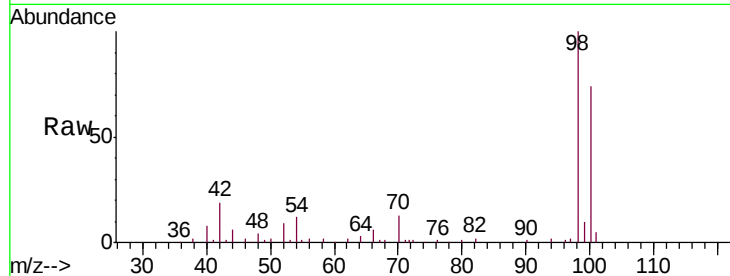




#50
Toluene-d8
Concen: 44.328 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.00 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

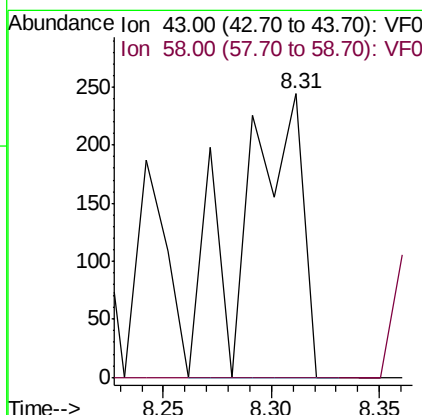
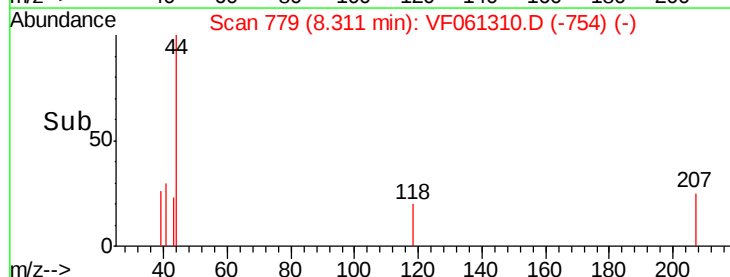
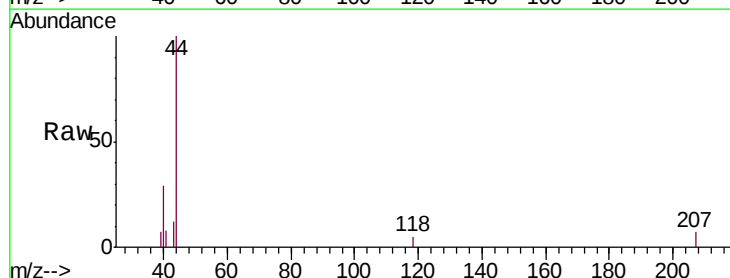
Instrument :
MSVOA_F
ClientSampleId :
SP-1-2

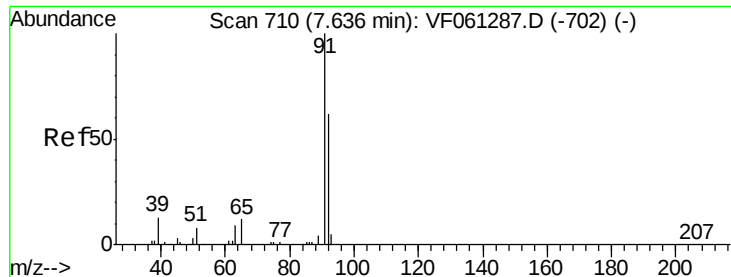
Tgt Ion: 98 Resp: 74588
Ion Ratio Lower Upper
98 100
100 73.6 55.6 83.4



#51
4-Methyl-2-Pentanone
Concen: 1.546 ug/l
RT: 8.31 min Scan# 779
Delta R.T. 0.04 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

Tgt Ion: 43 Resp: 487
Ion Ratio Lower Upper
43 100
58 0.0 29.6 44.4#





#52

Toluene

Concen: 4.112 ug/l

RT: 7.64 min Scan# 711

Delta R.T. 0.00 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

Instrument :

MSVOA_F

ClientSampleId :

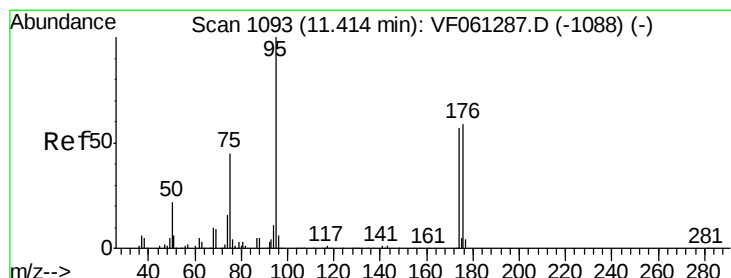
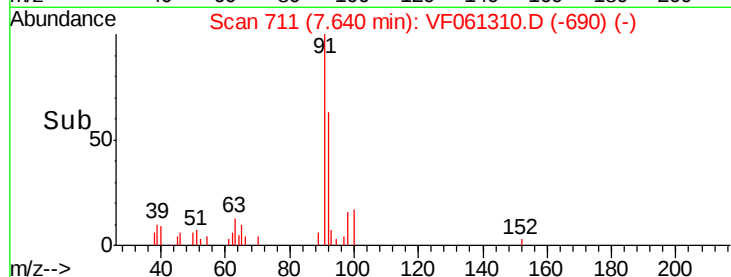
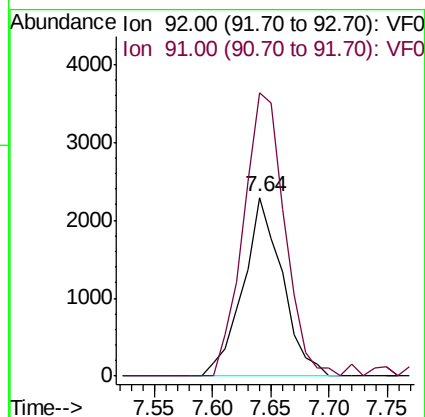
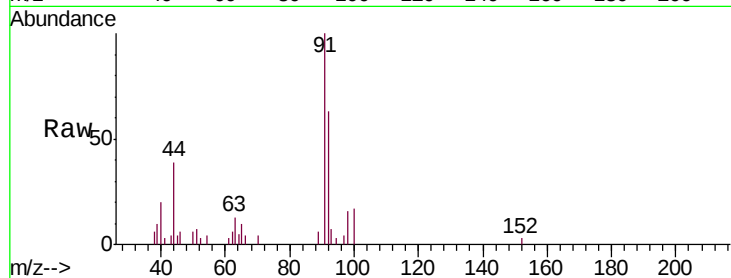
SP-1-2

Tgt Ion: 92 Resp: 5354

Ion Ratio Lower Upper

92 100

91 158.4 129.2 193.8



#62

4-Bromofluorobenzene

Concen: 27.146 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.01 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

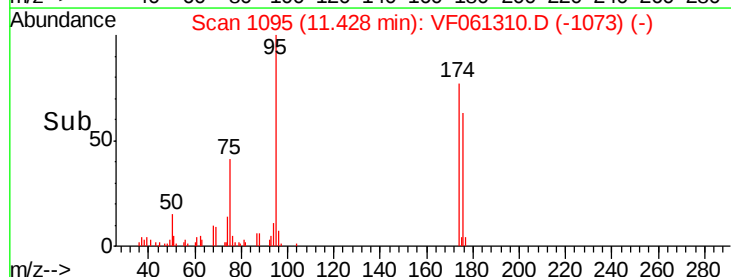
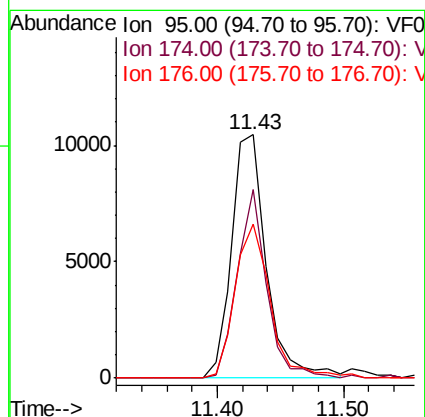
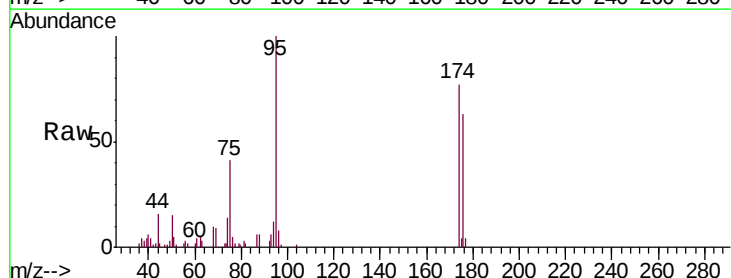
Tgt Ion: 95 Resp: 19945

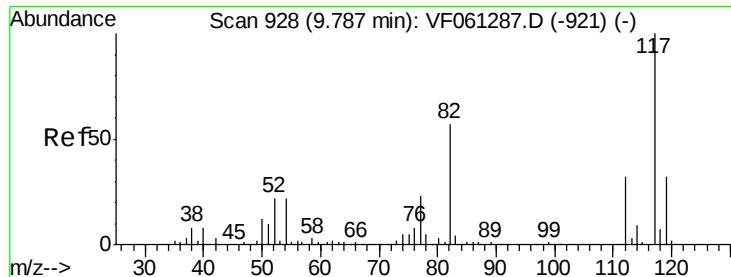
Ion Ratio Lower Upper

95 100

174 77.5 0.0 114.2

176 63.5 0.0 117.8

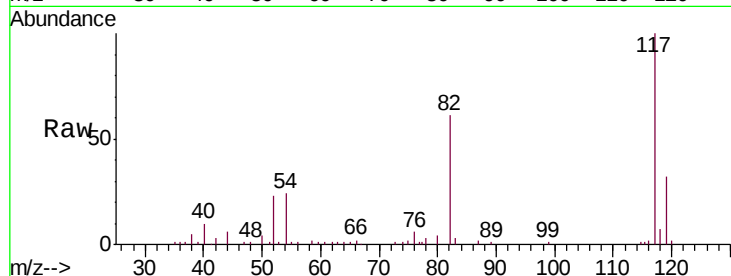




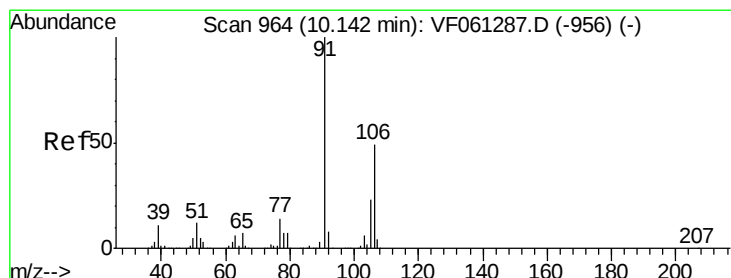
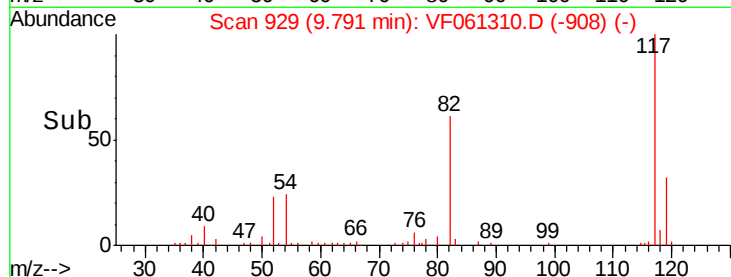
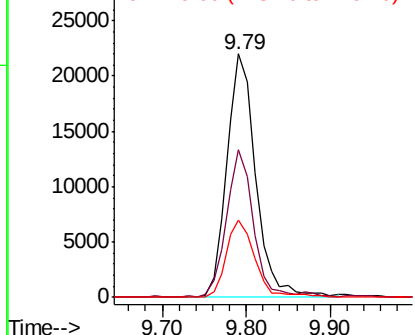
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.00 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

Instrument :
MSVOA_F
ClientSampleId :
SP-1-2

Tgt Ion:117 Resp: 52657
Ion Ratio Lower Upper
117 100
82 60.6 45.3 67.9
119 31.7 25.4 38.0

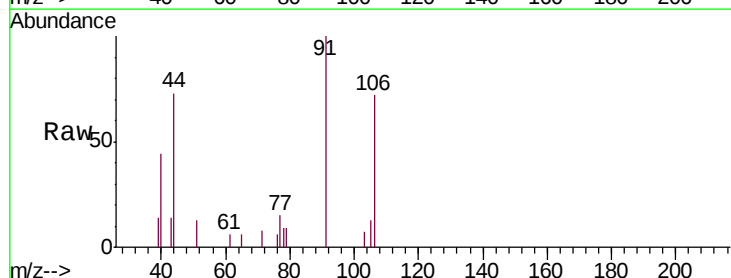


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

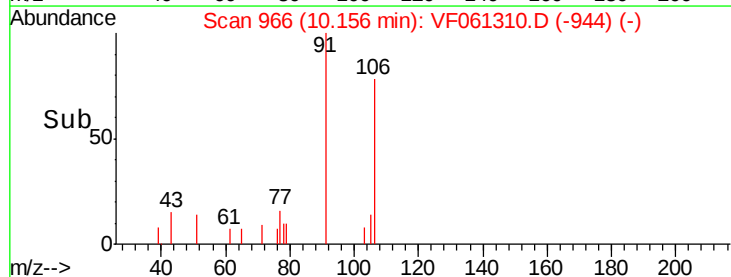
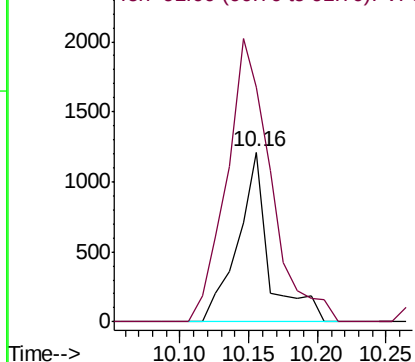


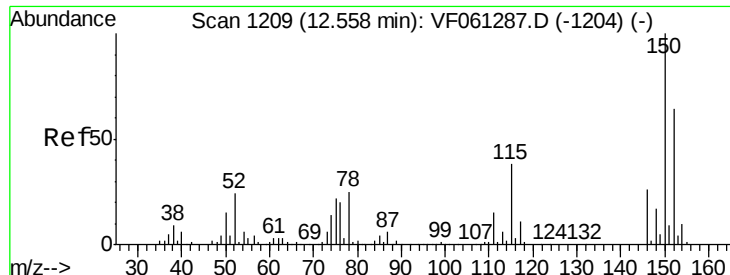
#68
m/p-Xylenes
Concen: 2.667 ug/l
RT: 10.16 min Scan# 966
Delta R.T. 0.01 min
Lab File: VF061310.D
Acq: 9 Jan 2019 19:32

Tgt Ion:106 Resp: 1907
Ion Ratio Lower Upper
106 100
91 138.0 165.0 247.6#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. 0.00 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

Instrument :

MSVOA_F

ClientSampleId :

SP-1-2

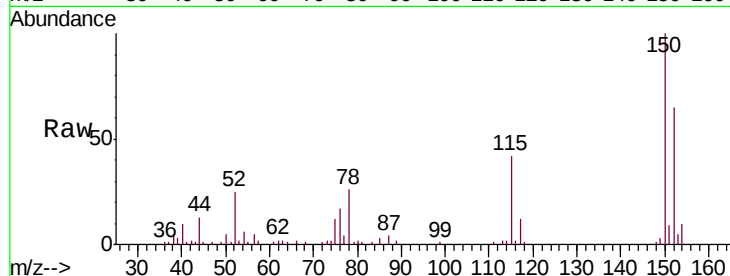
Tgt Ion:152 Resp: 16498

Ion Ratio Lower Upper

152 100

115 64.2 29.6 88.9

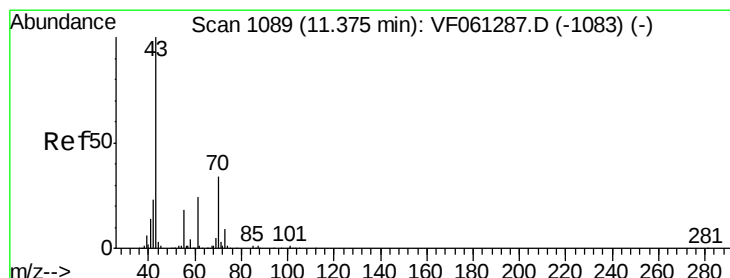
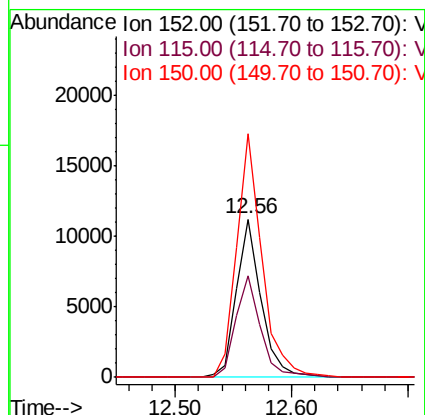
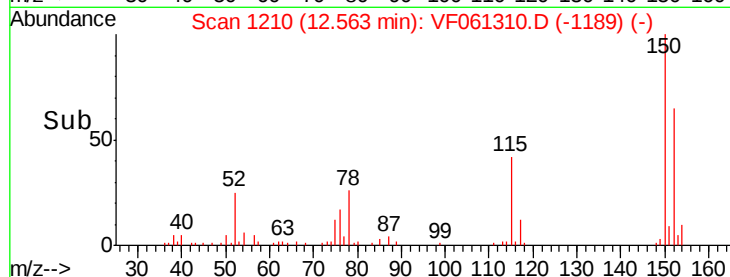
150 154.2 0.0 315.4



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: 1.079 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061310.D

Acq: 9 Jan 2019 19:32

Tgt Ion: 43 Resp: 356

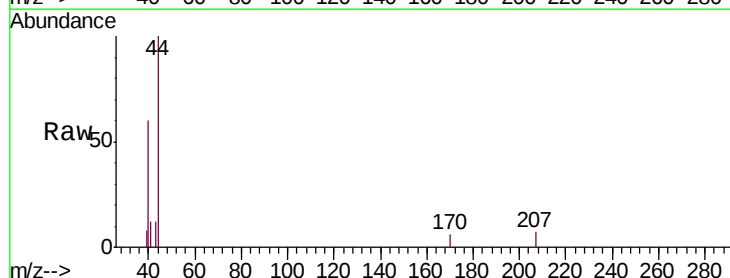
Ion Ratio Lower Upper

43 100

70 0.0 27.4 41.0#

55 0.0 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

