

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012819\
 Data File : VF061538.D
 Acq On : 28 Jan 2019 13:42
 Operator : VA/AP
 Sample : K1011-09
 Misc : 6.57g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-01-012519-A

Quant Time: Jan 29 03:55:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	217051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	405458	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	295051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	117001	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	113417	42.32	ug/l	0.00
Spiked Amount			Recovery	=	84.64%	
35) Dibromofluoromethane	4.10	113	129870	40.59	ug/l	0.00
Spiked Amount			Recovery	=	81.18%	
50) Toluene-d8	7.55	98	304768	34.77	ug/l	0.00
Spiked Amount			Recovery	=	69.54%	
62) 4-Bromofluorobenzene	11.40	95	122107	29.81	ug/l	0.00
Spiked Amount			Recovery	=	59.62%	

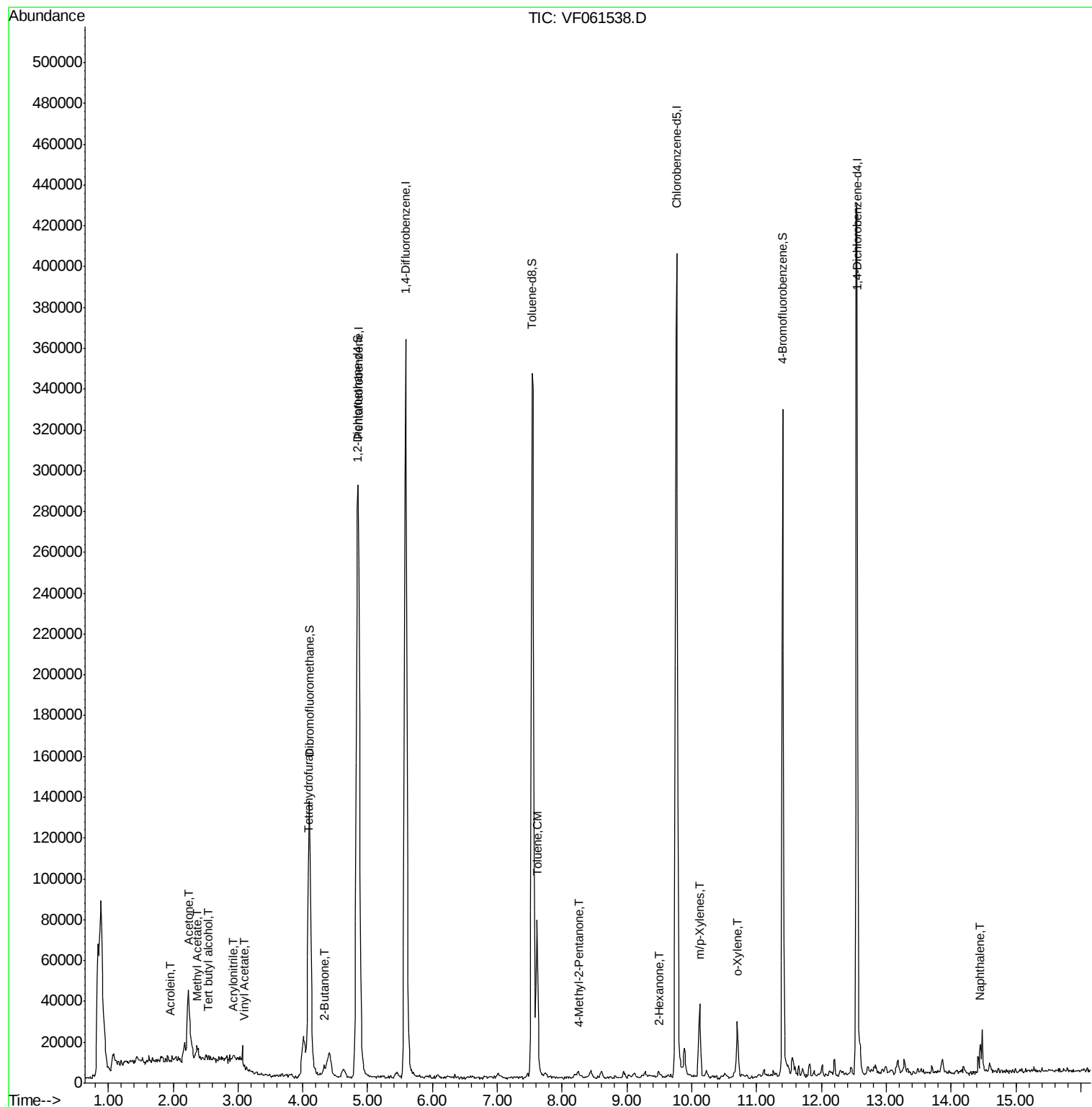
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	314	2.768	ug/l #	1
13) Acrolein	1.96	56	327	13.545	ug/l	97
14) Allyl chloride	2.11	41	710	Below Cal	#	63
15) Acrylonitrile	2.93	53	706	2.430	ug/l #	29
16) Acetone	2.23	43	49580	92.226	ug/l #	90
18) Methyl Acetate	2.37	43	2421	2.271	ug/l #	61
23) Vinyl Acetate	3.11	43	236	3.271	ug/l #	78
25) 2-Butanone	4.32	43	10413	11.648	ug/l #	87
29) Tetrahydrofuran	4.07	42	1969	5.115	ug/l #	69
51) 4-Methyl-2-Pentanone	8.26	43	3037	1.752	ug/l	99
52) Toluene	7.62	92	40384	5.862	ug/l	97
59) 2-Hexanone	9.48	43	3783	3.129	ug/l	67
68) m/p-Xylenes	10.12	106	11906	3.020	ug/l	100
69) o-Xylene	10.70	106	8324	1.948	ug/l	97
95) Naphthalene	14.45	128	9388	1.876	ug/l #	94

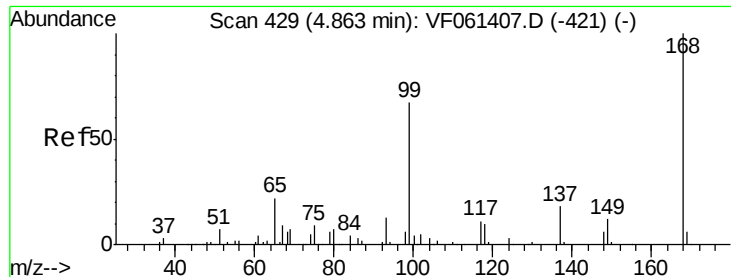
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

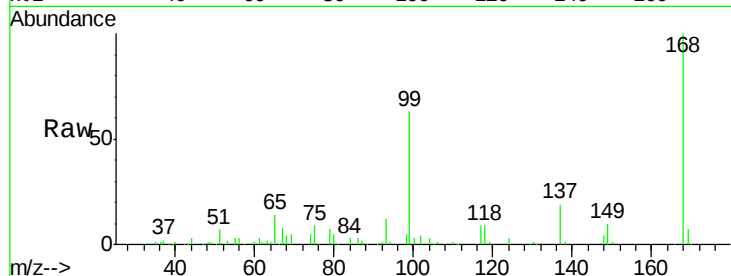
OR-01-012519-A

Tot Ion:168 Resp: 217051

Ion Ratio Lower Upper

168 100

99 63.4 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.86

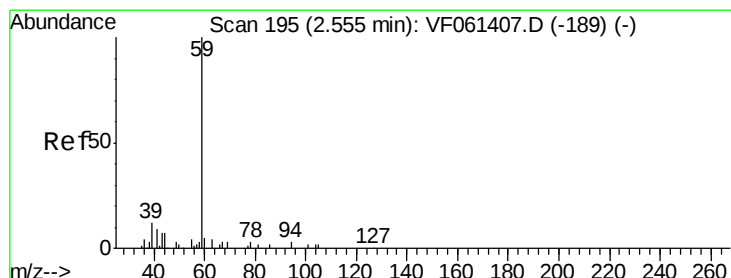
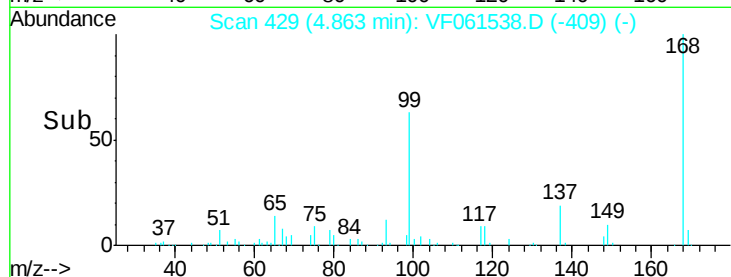
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.768 ug/l

RT: 2.56 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF061538.D

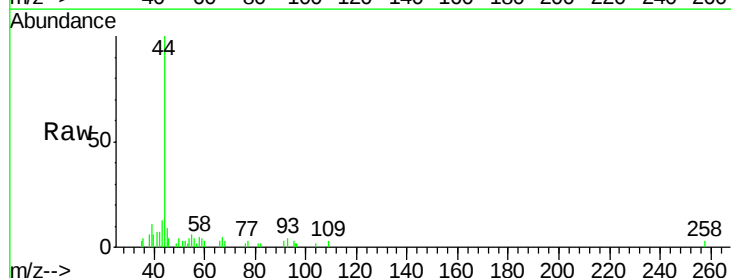
Acq: 28 Jan 2019 13:42

Tgt Ion: 59 Resp: 314

Ion Ratio Lower Upper

59 100

57 60.1 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

200

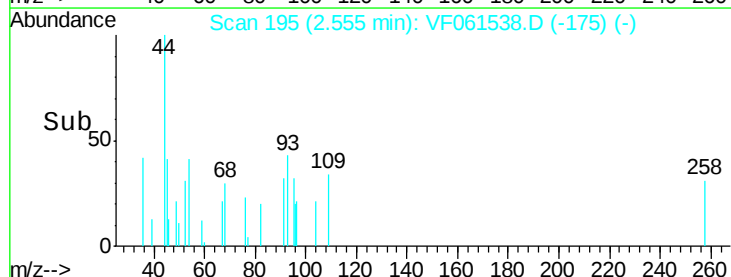
150

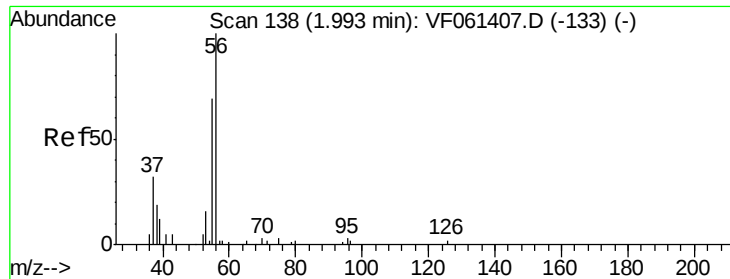
100

50

0

Time-->





#13

Acrolein

Concen: 13.545 ug/l

RT: 1.96 min Scan# 135

Delta R.T. -0.03 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

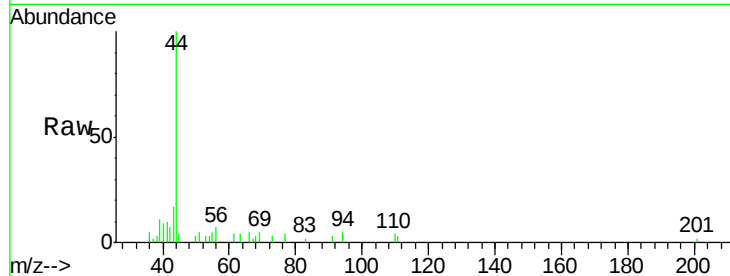
OR-01-012519-A

Tot Ion: 56 Resp: 327

Ion Ratio Lower Upper

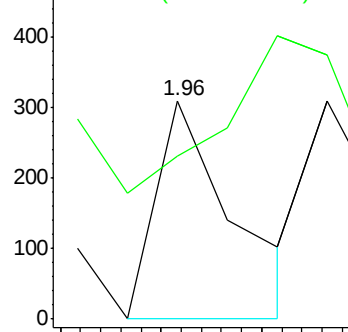
56 100

55 74.8 57.5 86.3

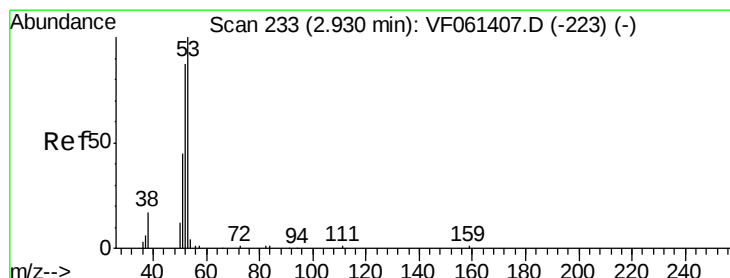
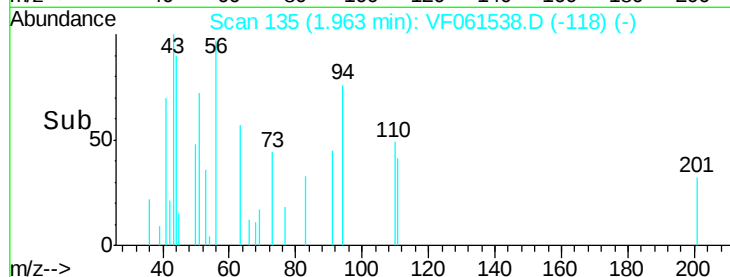


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#15

Acrylonitrile

Concen: 2.430 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

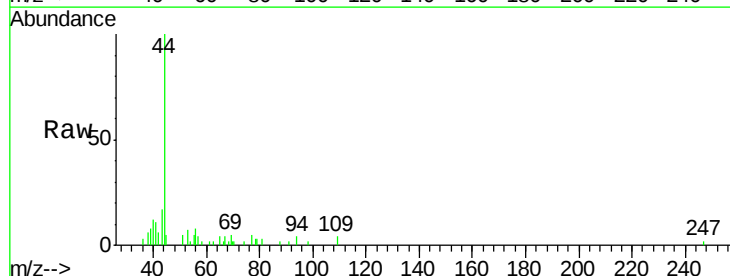
Tgt Ion: 53 Resp: 706

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

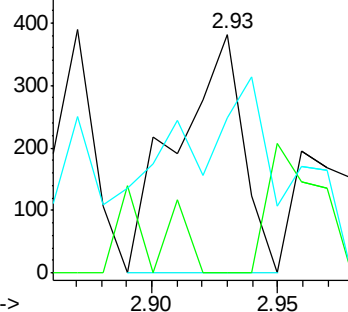
51 64.9 36.8 55.2#



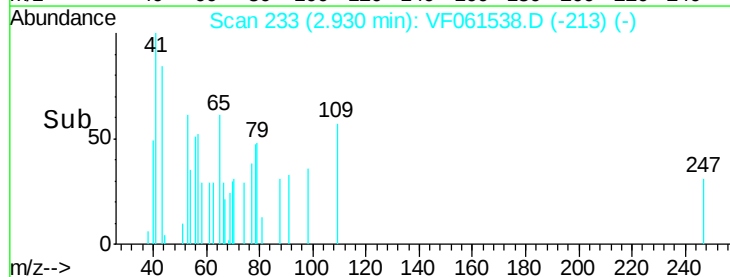
Abundance Ion 53.00 (52.70 to 53.70): VF0

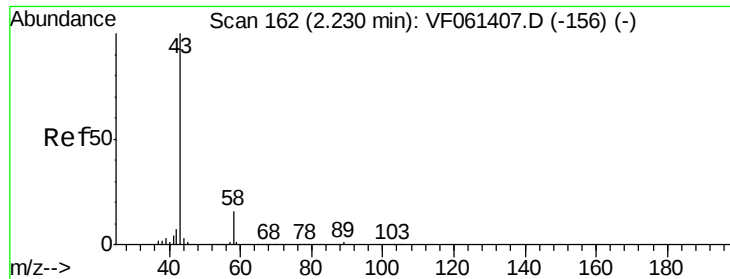
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->

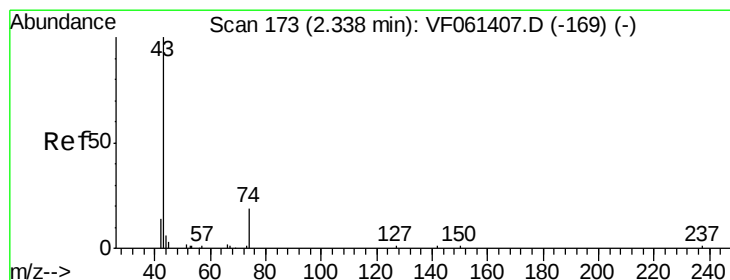
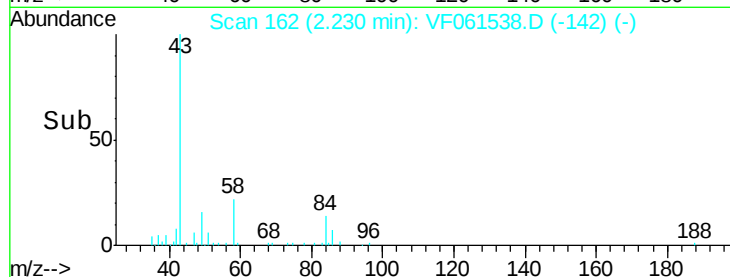
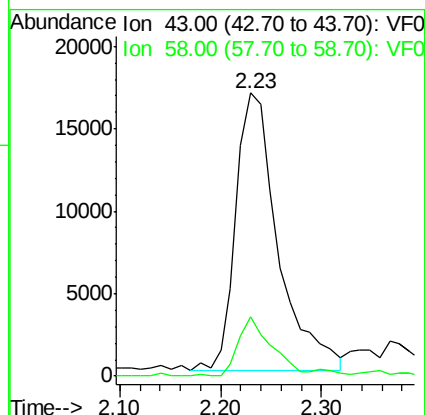
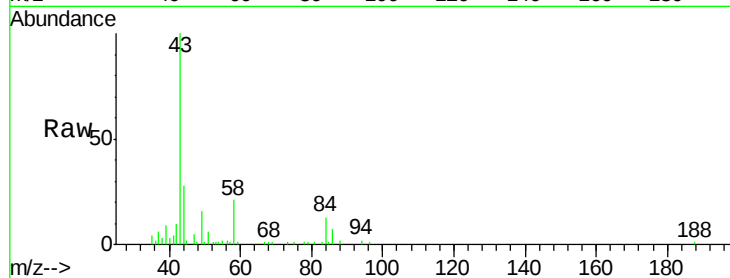




#16
Acetone
Concen: 92.226 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.00 min
Lab File: VF061538.D
Acq: 28 Jan 2019 13:42

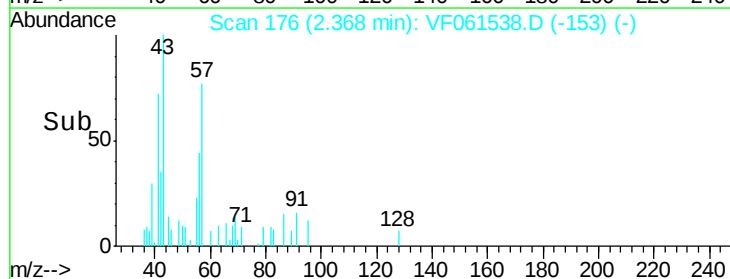
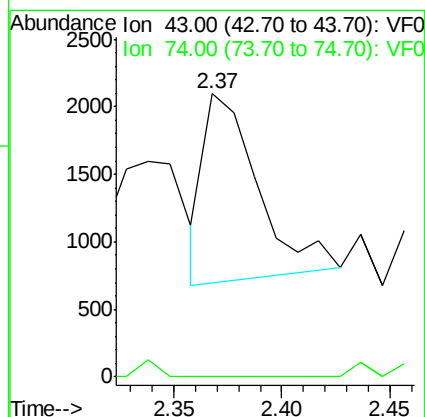
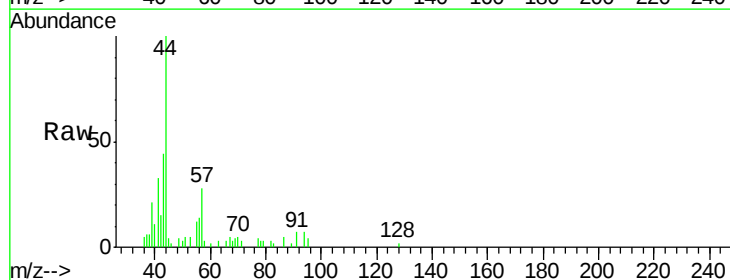
Instrument :
MSVOA_F
ClientSampleId :
OR-01-012519-A

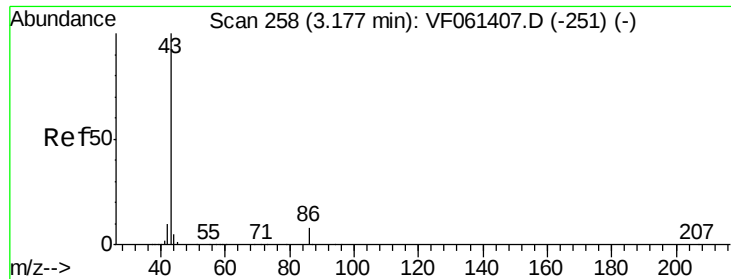
Tot Ion: 43 Resp: 49580
Ion Ratio Lower Upper
43 100
58 21.1 13.3 19.9#



#18
Methyl Acetate
Concen: 2.271 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.03 min
Lab File: VF061538.D
Acq: 28 Jan 2019 13:42

Tgt Ion: 43 Resp: 2421
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.271 ug/l

RT: 3.11 min Scan# 251

Delta R.T. -0.07 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

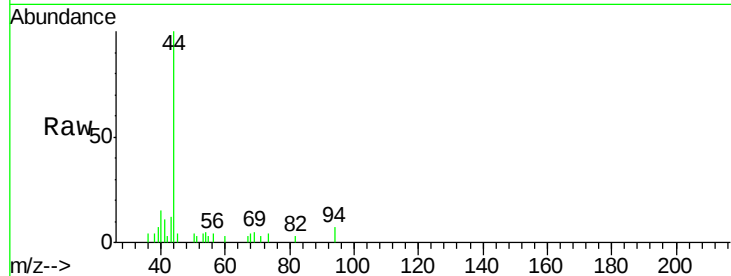
OR-01-012519-A

Tot Ion: 43 Resp: 236

Ion Ratio Lower Upper

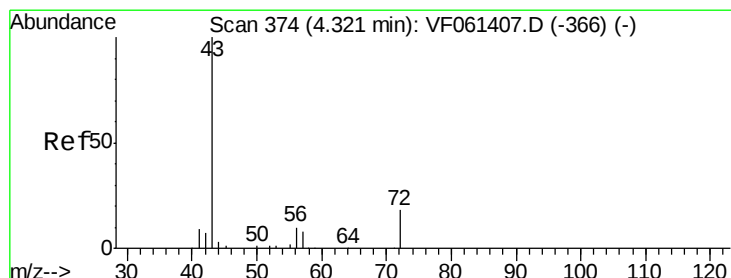
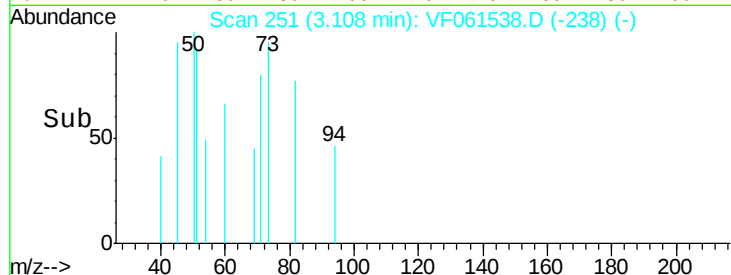
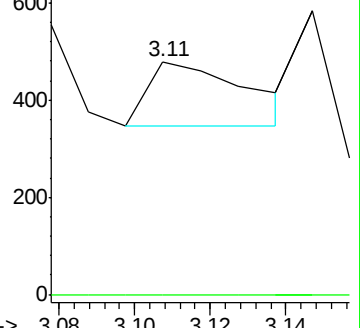
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 11.648 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061538.D

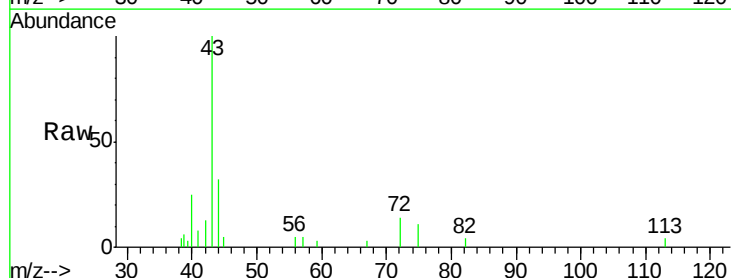
Acq: 28 Jan 2019 13:42

Tgt Ion: 43 Resp: 10413

Ion Ratio Lower Upper

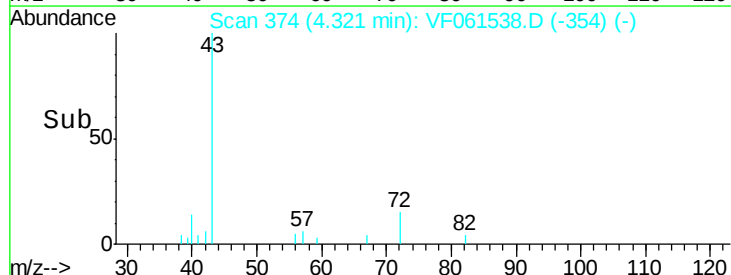
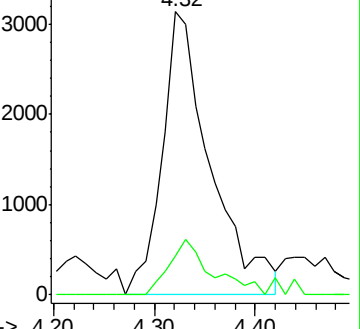
43 100

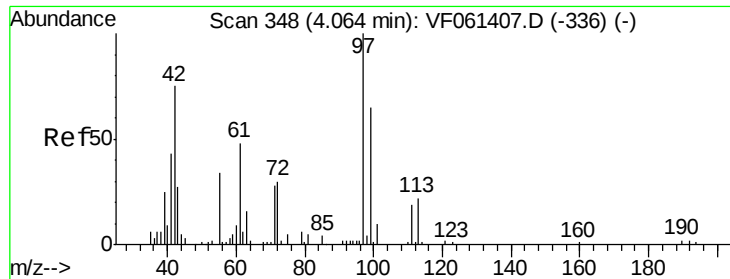
72 13.9 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 5.115 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

OR-01-012519-A

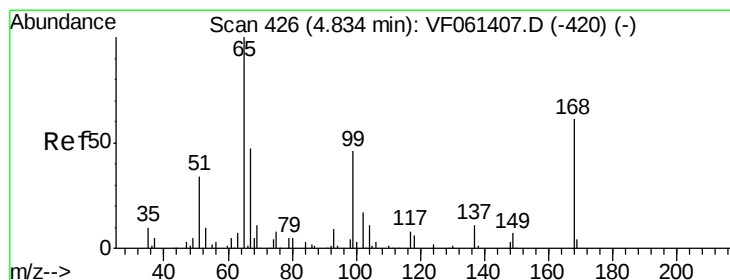
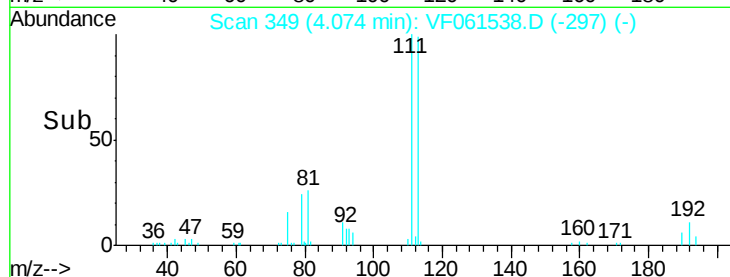
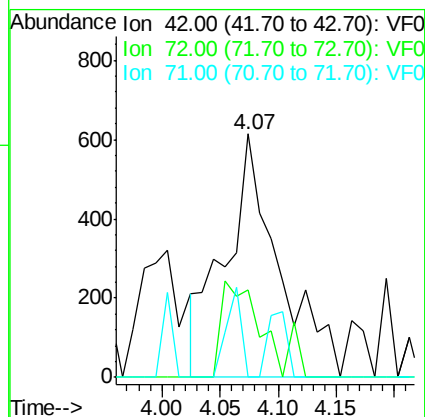
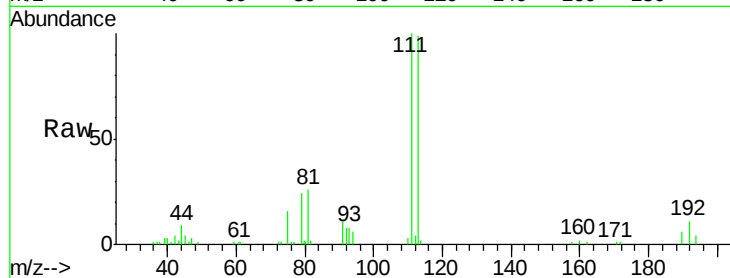
Tot Ion: 42 Resp: 1969

Ion Ratio Lower Upper

42 100

72 26.6 28.9 43.3#

71 10.3 29.6 44.4#



#33

1,2-Dichloroethane-d4

Concen: 42.323 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061538.D

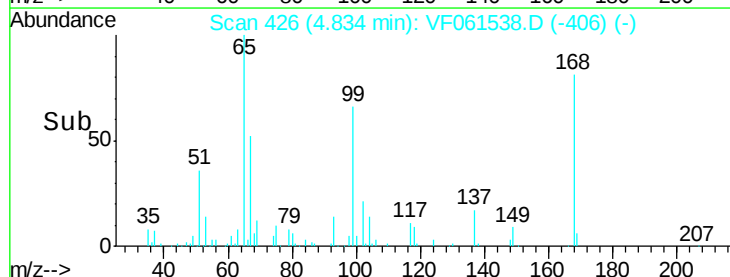
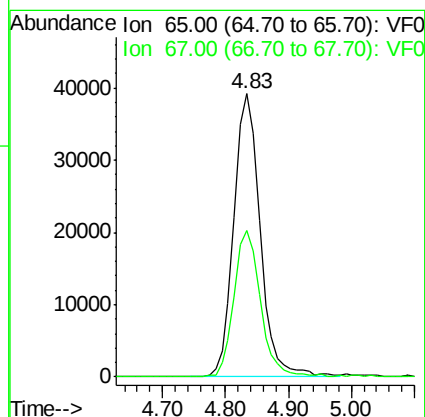
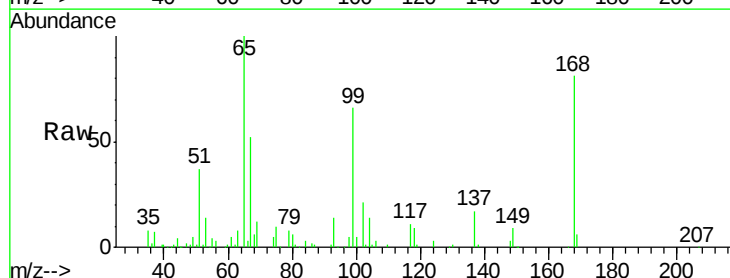
Acq: 28 Jan 2019 13:42

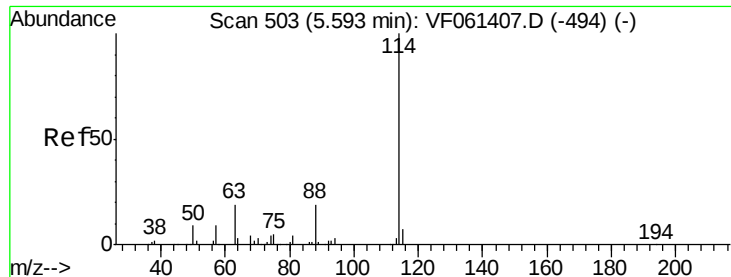
Tgt Ion: 65 Resp: 113417

Ion Ratio Lower Upper

65 100

67 51.5 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

OR-01-012519-A

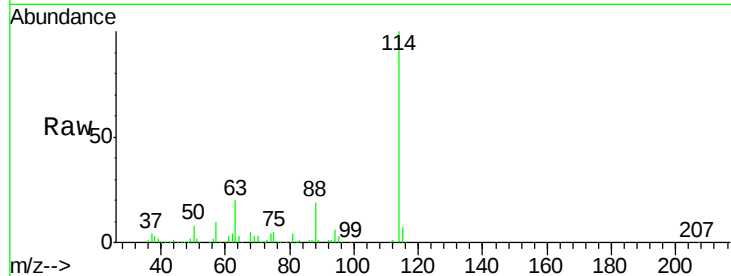
Tot Ion:114 Resp: 405458

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

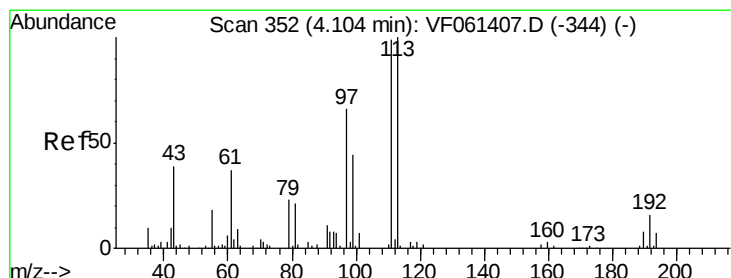
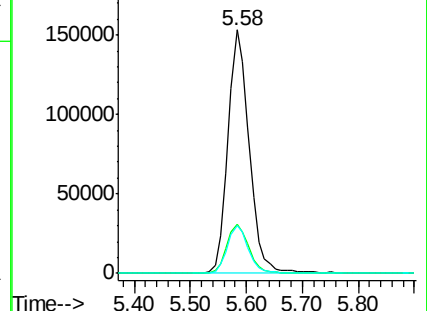
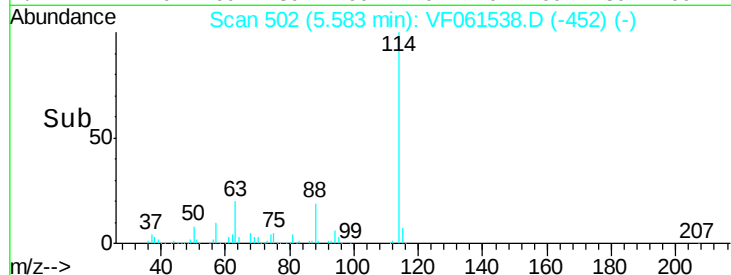
88 19.5 0.0 37.4



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: 40.592 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

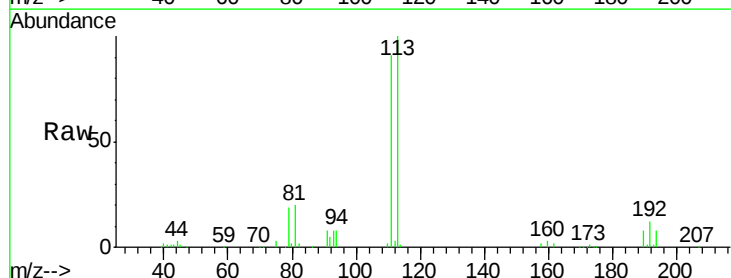
Tgt Ion:113 Resp: 129870

Ion Ratio Lower Upper

113 100

111 91.1 79.4 119.0

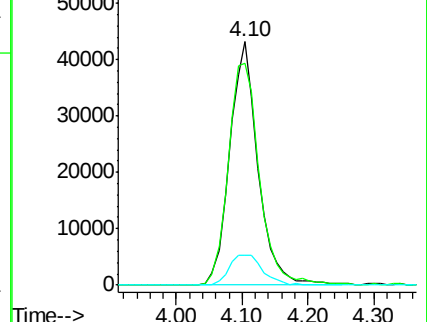
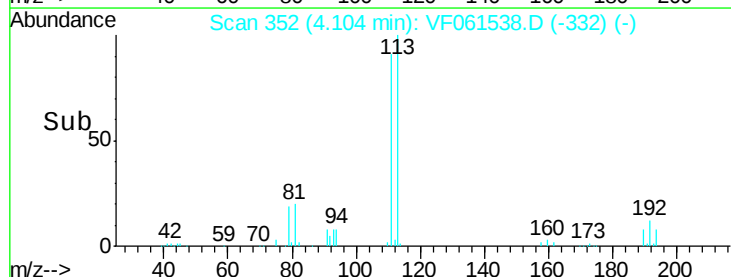
192 12.1 12.4 18.6#

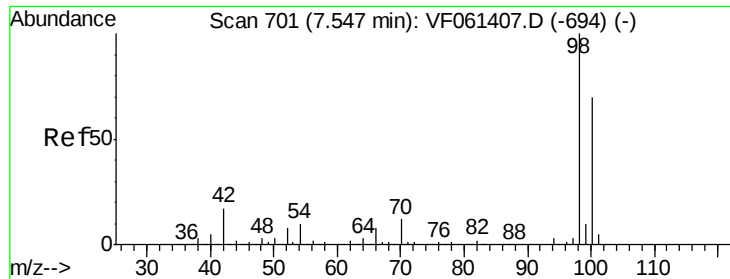


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 34.768 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

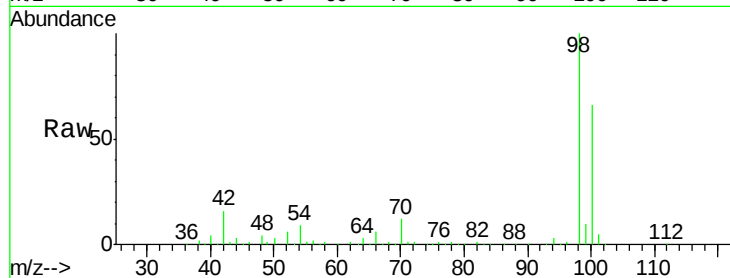
OR-01-012519-A

Tot Ion: 98 Resp: 304768

Ion Ratio Lower Upper

98 100

100 65.8 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

150000

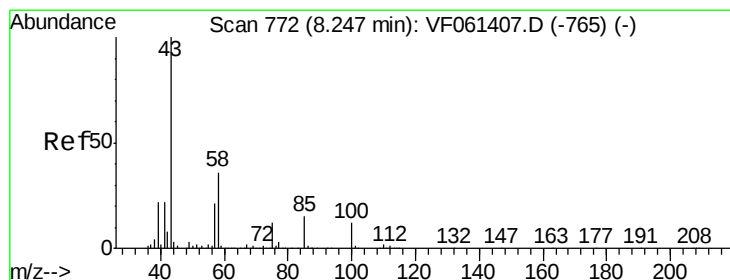
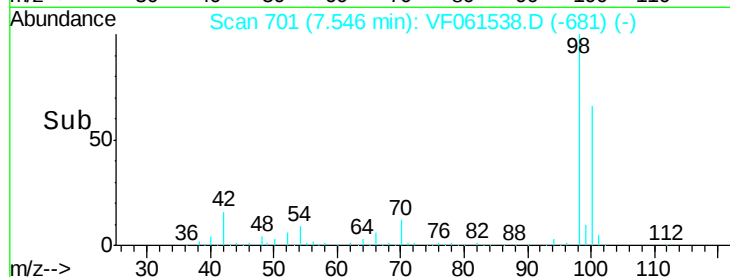
100000

50000

0

Time-->

7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.752 ug/l

RT: 8.26 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061538.D

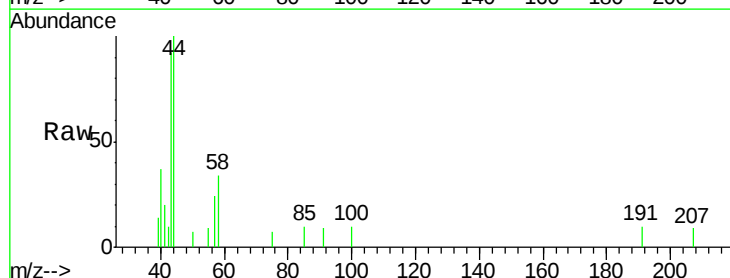
Acq: 28 Jan 2019 13:42

Tgt Ion: 43 Resp: 3037

Ion Ratio Lower Upper

43 100

58 36.8 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

1500

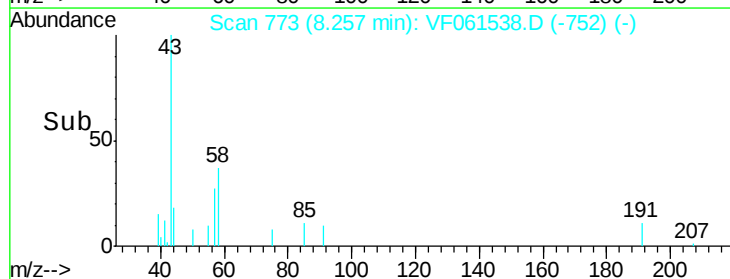
1000

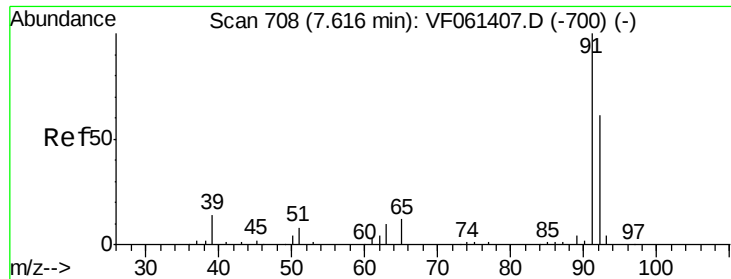
500

0

Time-->

8.15 8.20 8.25 8.30





#52

Toluene

Concen: 5.862 ug/l

RT: 7.62 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

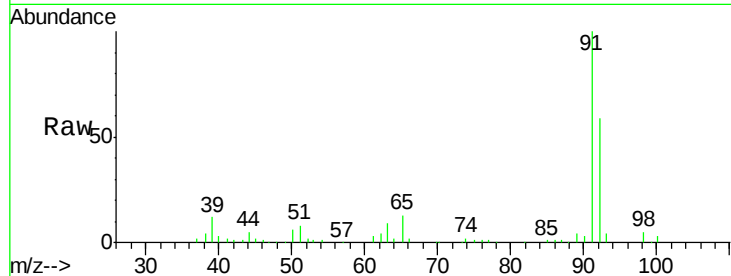
OR-01-012519-A

Tot Ion: 92 Resp: 40384

Ion Ratio Lower Upper

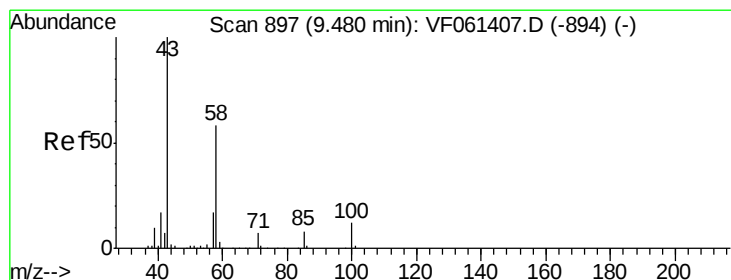
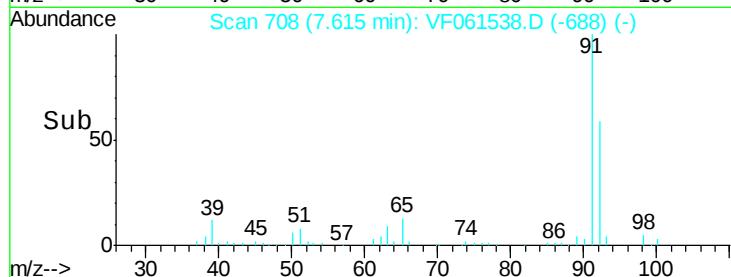
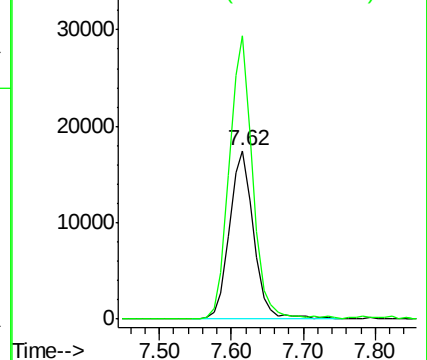
92 100

91 168.3 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 3.129 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.00 min

Lab File: VF061538.D

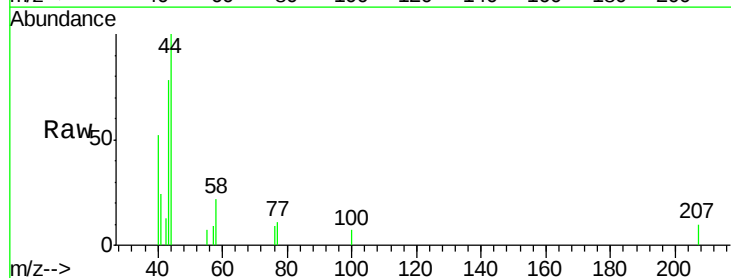
Acq: 28 Jan 2019 13:42

Tgt Ion: 43 Resp: 3783

Ion Ratio Lower Upper

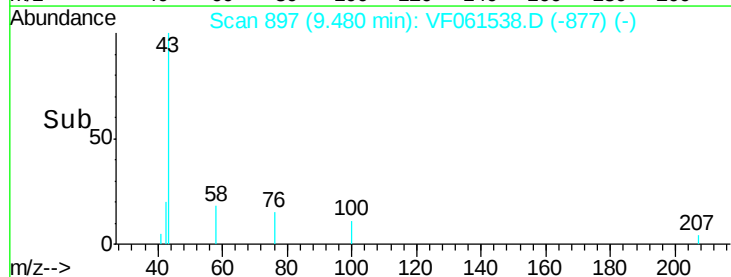
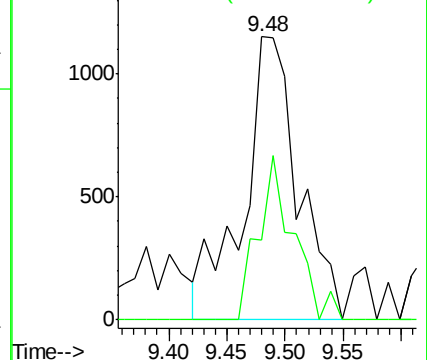
43 100

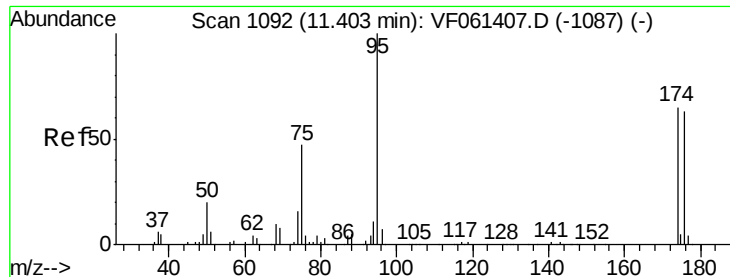
58 28.2 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 29.814 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

OR-01-012519-A

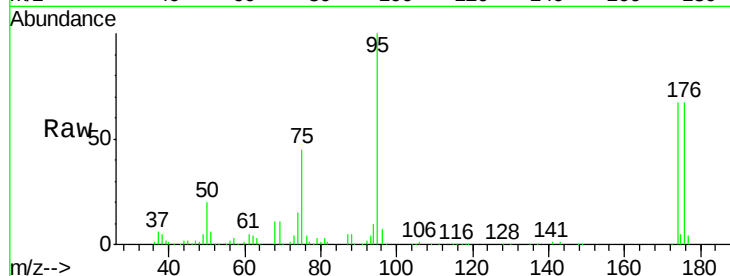
Tot Ion: 95 Resp: 122107

Ion Ratio Lower Upper

95 100

174 66.9 0.0 130.4

176 66.8 0.0 126.2

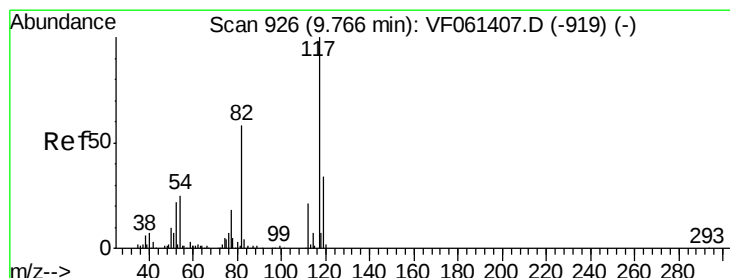
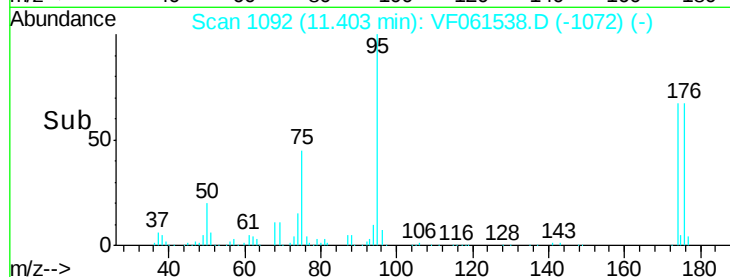


Abundance Ion 95.00 (94.70 to 95.70): VF061407.D (-1087) (-)

Ion 174.00 (173.70 to 174.70): VF061407.D (-1087) (-)

Ion 176.00 (175.70 to 176.70): VF061407.D (-1087) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

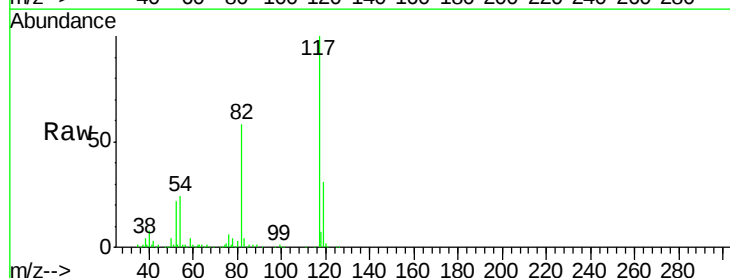
Tgt Ion: 117 Resp: 295051

Ion Ratio Lower Upper

117 100

82 58.3 46.4 69.6

119 31.3 27.2 40.8

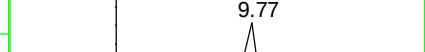
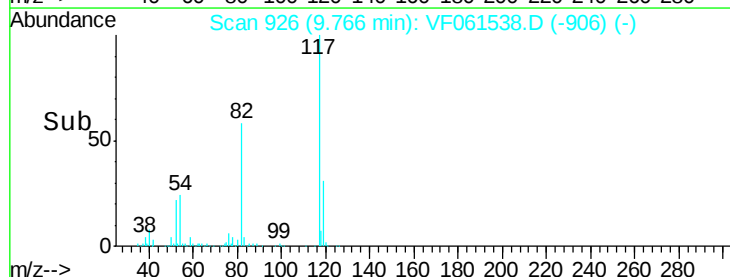


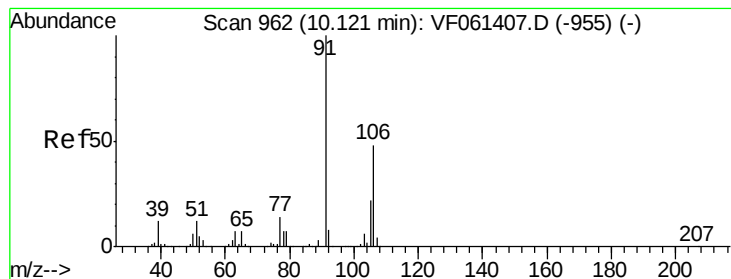
Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

Ion 82.00 (81.70 to 82.70): VF061407.D (-919) (-)

Ion 119.00 (118.70 to 119.70): VF061407.D (-919) (-)

Time-->





#68

m/p-Xylenes

Concen: 3.020 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

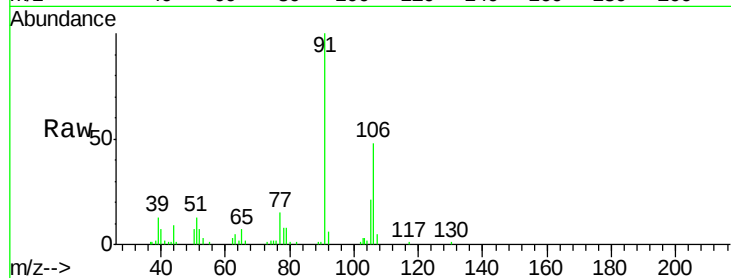
OR-01-012519-A

Tot Ion:106 Resp: 11906

Ion Ratio Lower Upper

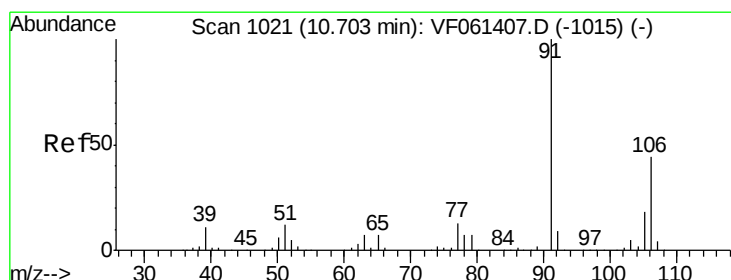
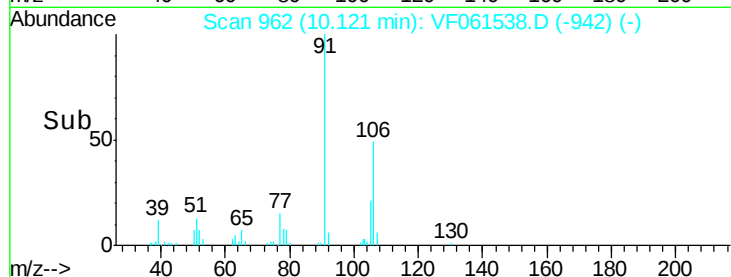
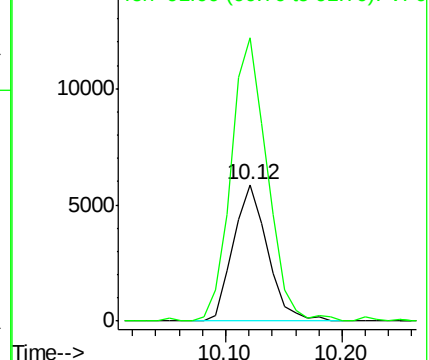
106 100

91 207.8 166.2 249.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 1.948 ug/l

RT: 10.70 min Scan# 1021

Delta R.T. -0.00 min

Lab File: VF061538.D

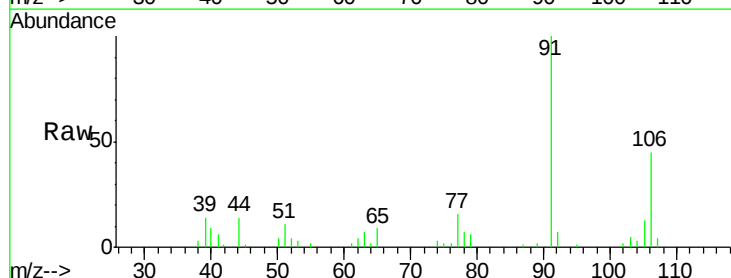
Acq: 28 Jan 2019 13:42

Tgt Ion:106 Resp: 8324

Ion Ratio Lower Upper

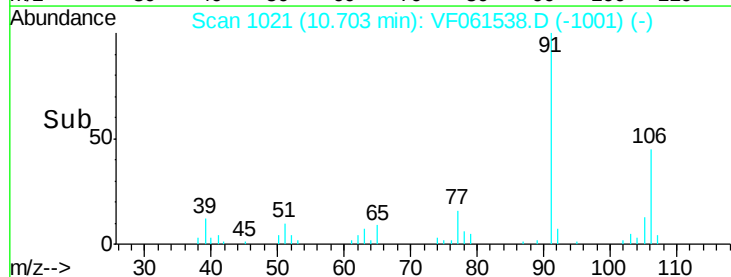
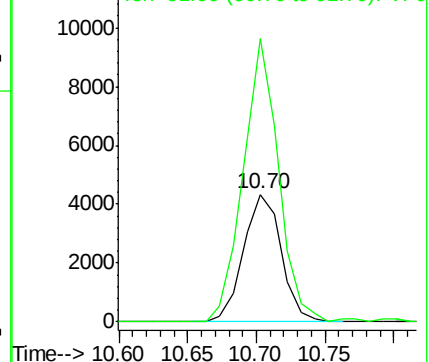
106 100

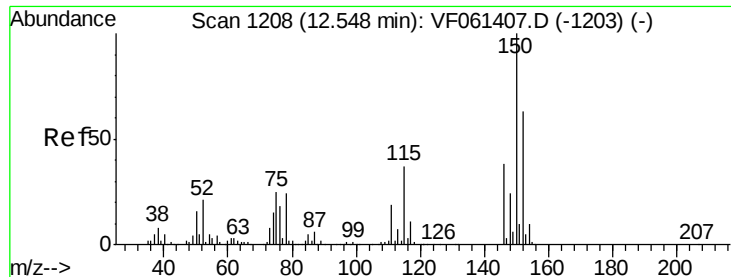
91 222.2 113.3 339.8



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: 12.55 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

Instrument :

MSVOA_F

ClientSampleId :

OR-01-012519-A

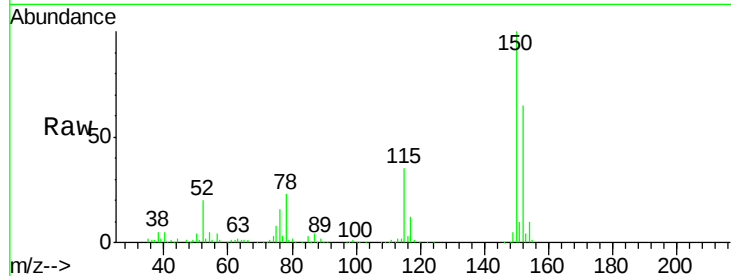
Tot Ion:152 Resp: 117001

Ion Ratio Lower Upper

152 100

115 54.5 30.0 90.0

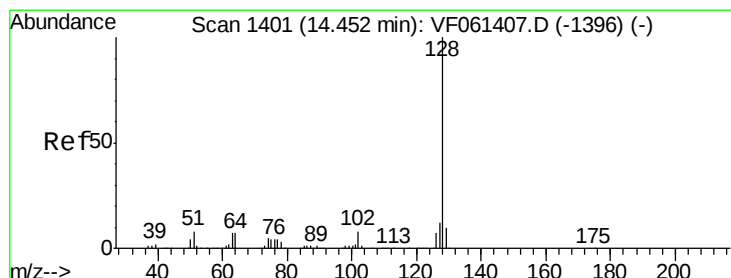
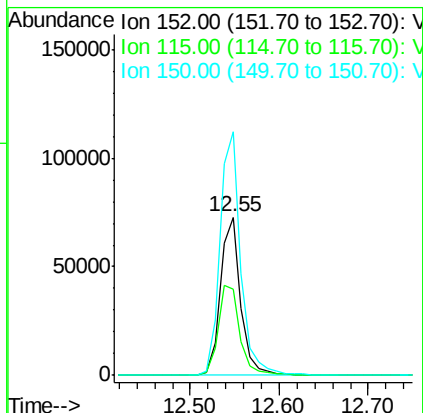
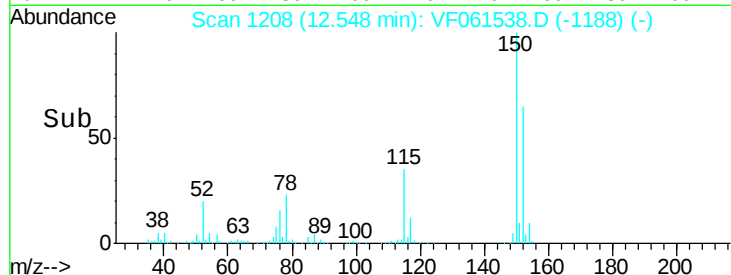
150 153.8 0.0 321.4



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



#95

Naphthalene

Concen: 1.876 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061538.D

Acq: 28 Jan 2019 13:42

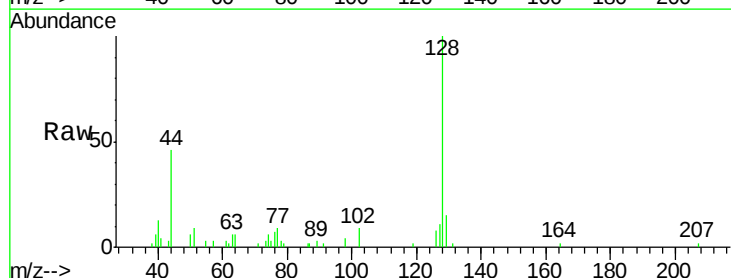
Tgt Ion:128 Resp: 9388

Ion Ratio Lower Upper

128 100

127 11.4 9.5 14.3

129 15.0 8.4 12.6#



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

