

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012819\
 Data File : VF061539.D
 Acq On : 28 Jan 2019 14:10
 Operator : VA/AP
 Sample : K1011-11
 Misc : 6.68g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jan 29 03:55:51 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	221312	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	390288	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	328474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	143774	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	121593	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	
35) Dibromofluoromethane	4.11	113	147267	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
50) Toluene-d8	7.54	98	340736	40.38	ug/l	0.00
Spiked Amount			Recovery	=	80.76%	
62) 4-Bromofluorobenzene	11.41	95	144536	36.66	ug/l	0.00
Spiked Amount			Recovery	=	73.32%	

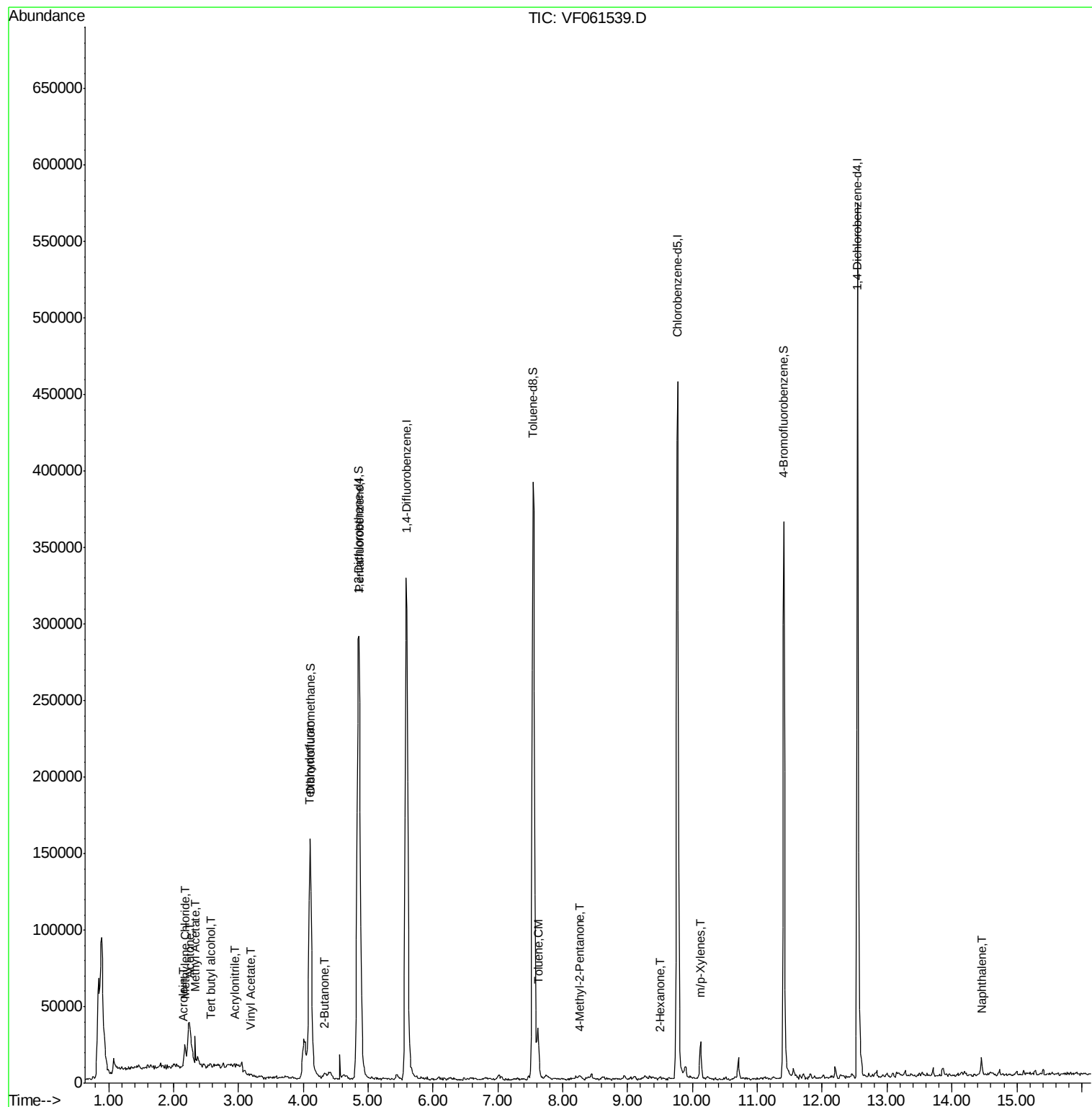
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	418	3.614	ug/l #	64
13) Acrolein	2.14	56	272	12.954	ug/l	95
14) Allyl chloride	2.03	41	1051	Below Cal	#	69
15) Acrylonitrile	2.96	53	774	2.613	ug/l #	22
16) Acetone	2.24	43	36623	66.812	ug/l	94
18) Methyl Acetate	2.33	43	1612	1.483	ug/l #	61
20) Methylene Chloride	2.18	84	6472	1.784	ug/l #	77
23) Vinyl Acetate	3.18	43	1912	3.806	ug/l #	78
25) 2-Butanone	4.33	43	6070	6.659	ug/l	95
29) Tetrahydrofuran	4.09	42	1013	2.581	ug/l #	58
49) 1,4-Dioxane	6.49	88	62	Below Cal	#	13
51) 4-Methyl-2-Pentanone	8.26	43	2967	1.778	ug/l #	79
52) Toluene	7.61	92	17333	2.614	ug/l	83
59) 2-Hexanone	9.50	43	1203	1.034	ug/l #	62
68) m/p-Xylenes	10.13	106	7356	1.676	ug/l	100
95) Naphthalene	14.46	128	8437	1.372	ug/l #	86

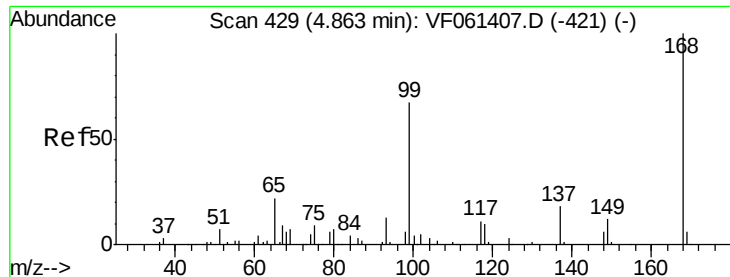
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012819\
Data File : VF061539.D
Acq On : 28 Jan 2019 14:10
Operator : VA/AP
Sample : K1011-11
Misc : 6.68g/5mL/MSVOA-F/SOIL
ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Jan 29 03:55:51 2019
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: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

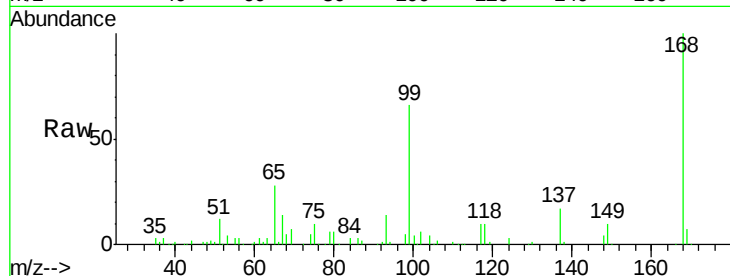
OR-01-012519-B

Tot Ion:168 Resp: 221312

Ion Ratio Lower Upper

168 100

99 66.4 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

80000

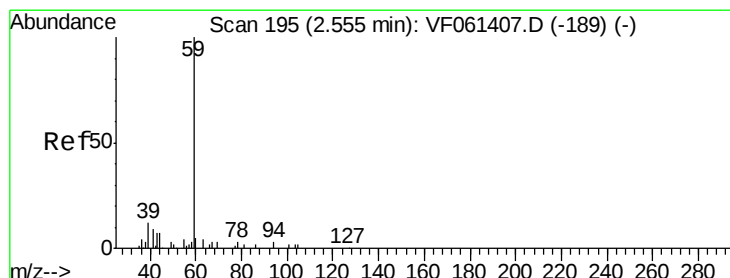
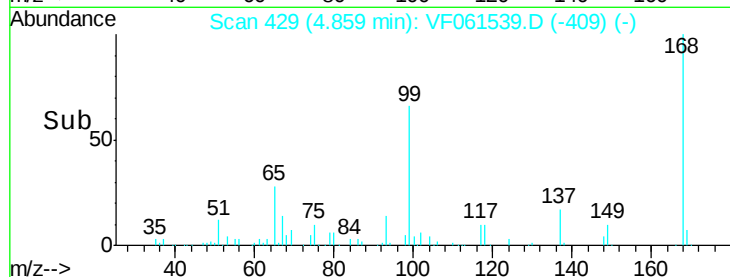
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.614 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061539.D

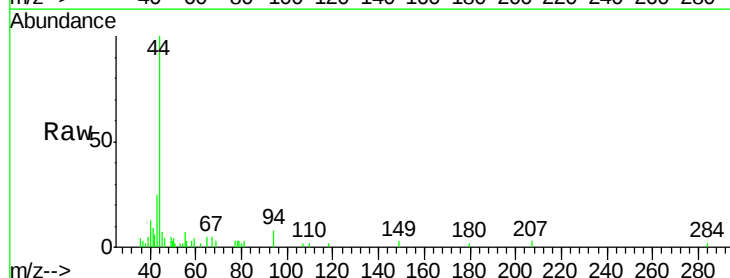
Acq: 28 Jan 2019 14:10

Tgt Ion: 59 Resp: 418

Ion Ratio Lower Upper

59 100

57 0.0 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

300

250

200

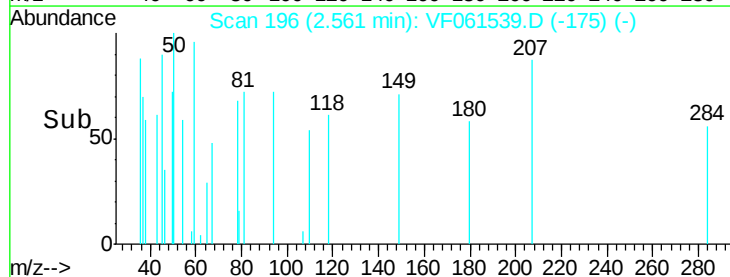
150

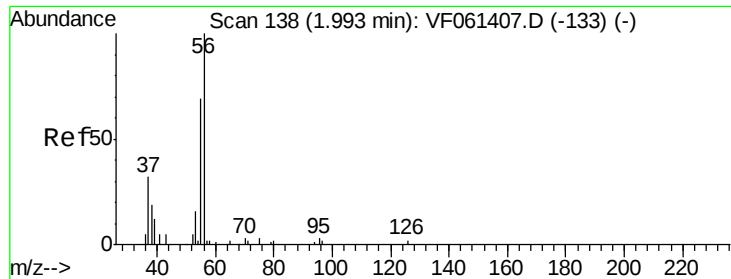
100

50

0

Time-->





#13

Acrolein

Concen: 12.954 ug/l

RT: 2.14 min Scan# 153

Delta R.T. 0.14 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

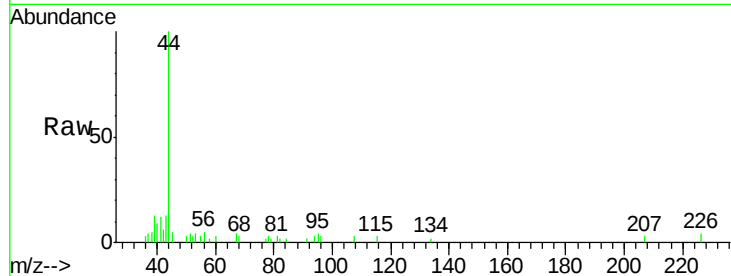
OR-01-012519-B

Tot Ion: 56 Resp: 272

Ion Ratio Lower Upper

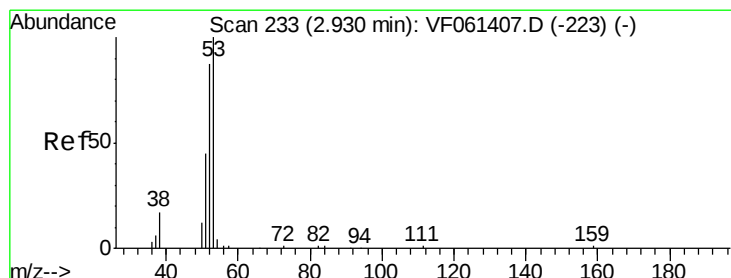
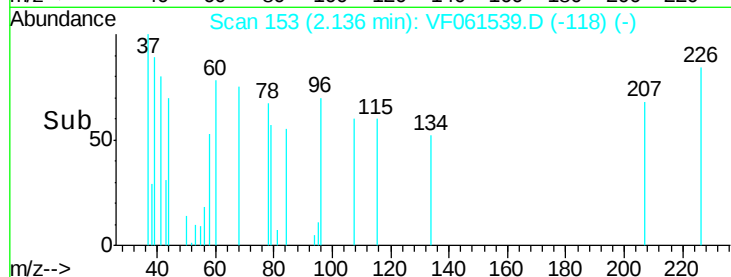
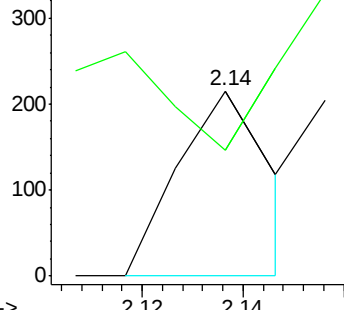
56 100

55 67.9 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 2.613 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.03 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

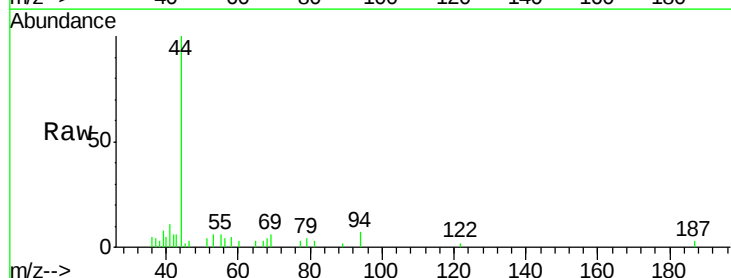
Tgt Ion: 53 Resp: 774

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

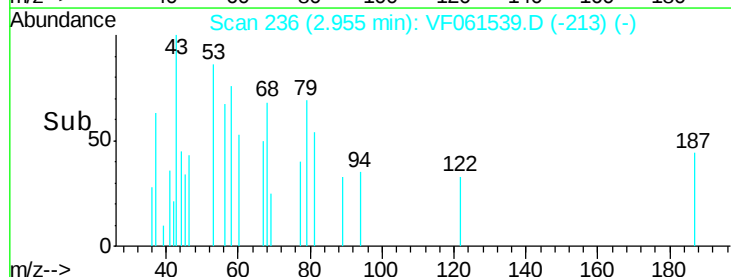
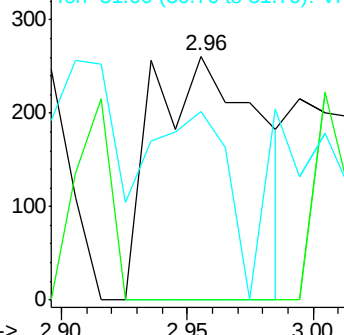
51 77.4 36.8 55.2#

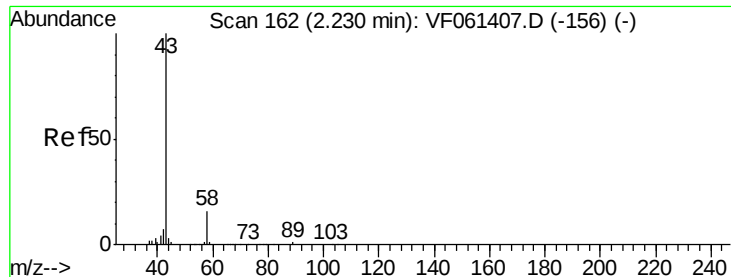


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 66.812 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

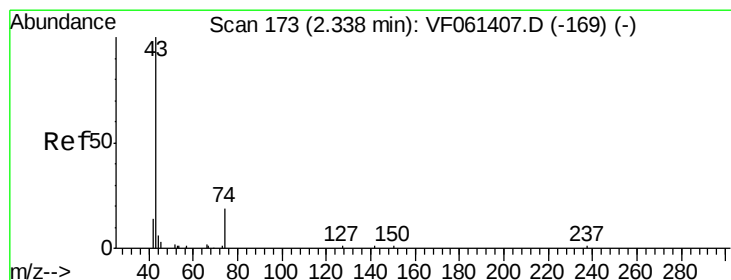
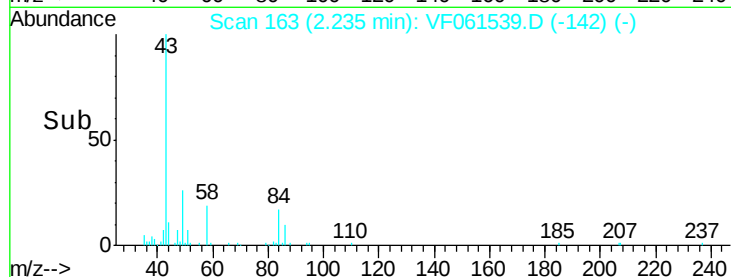
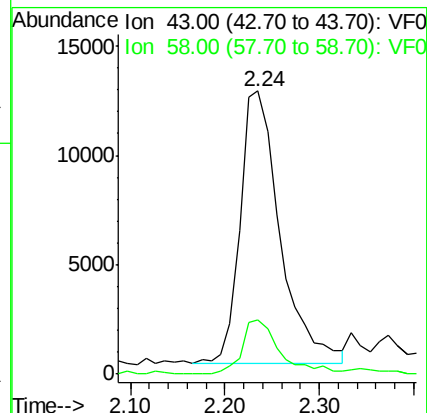
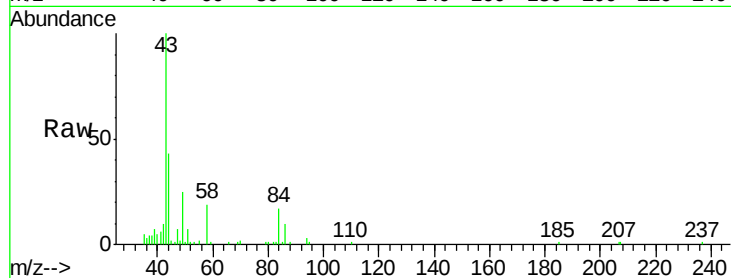
OR-01-012519-B

Tot Ion: 43 Resp: 36623

Ion Ratio Lower Upper

43 100

58 19.0 13.3 19.9



#18

Methyl Acetate

Concen: 1.483 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF061539.D

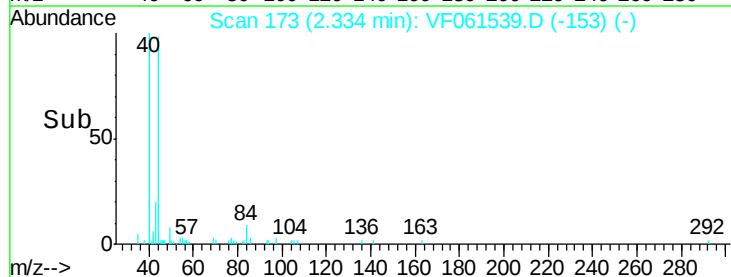
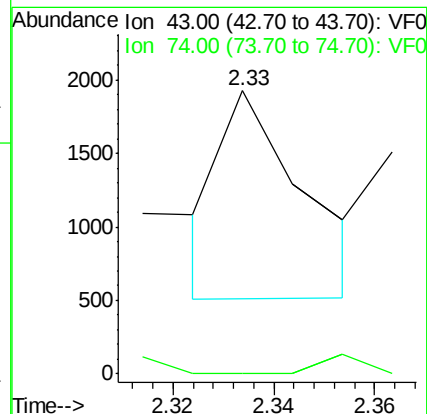
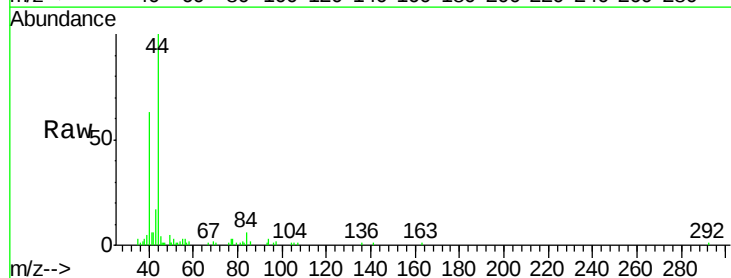
Acq: 28 Jan 2019 14:10

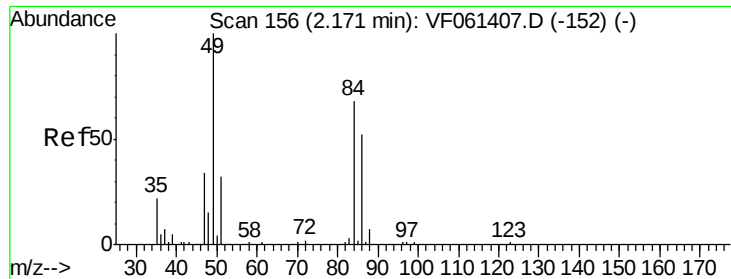
Tgt Ion: 43 Resp: 1612

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#

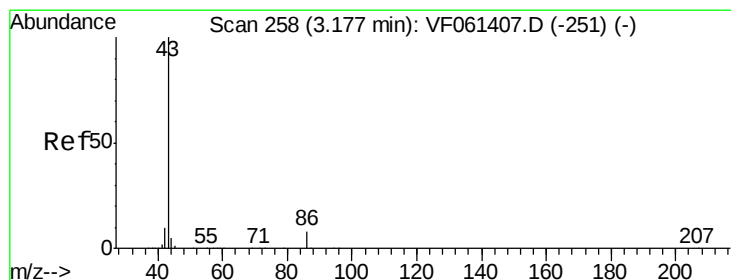
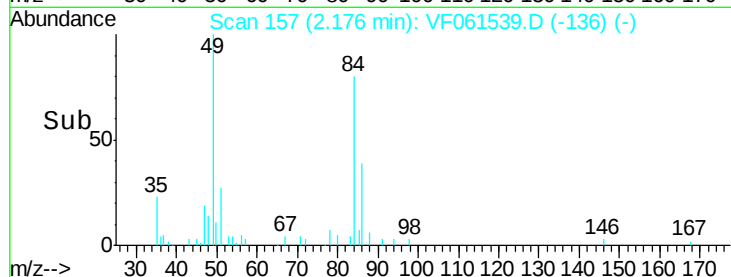
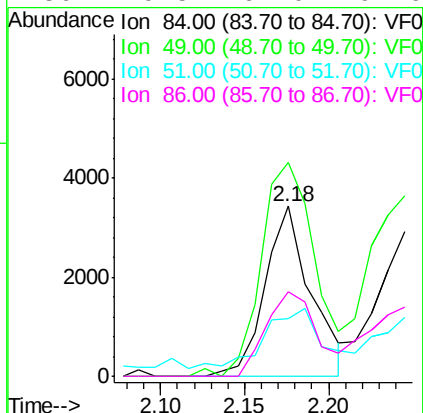
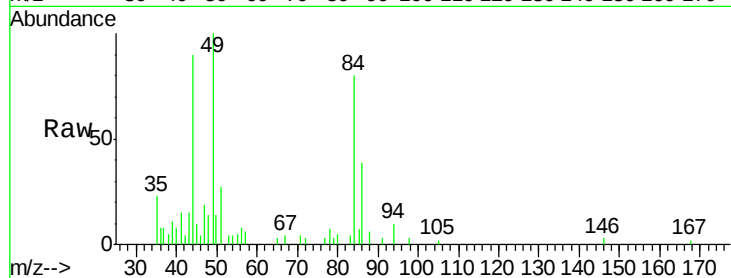




#20
Methvlene Chloride
Concen: 1.784 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061539.D
Acq: 28 Jan 2019 14:10

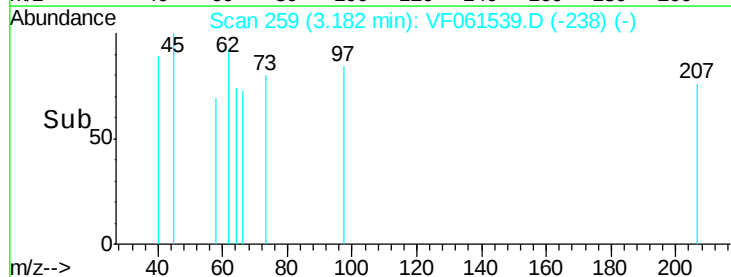
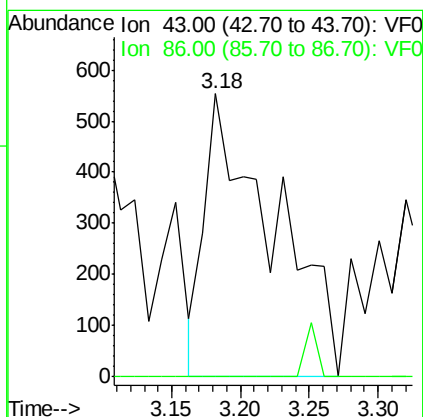
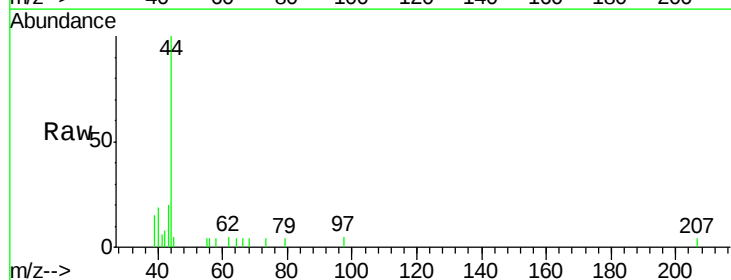
Instrument :
MSVOA_F
ClientSampleId :
OR-01-012519-B

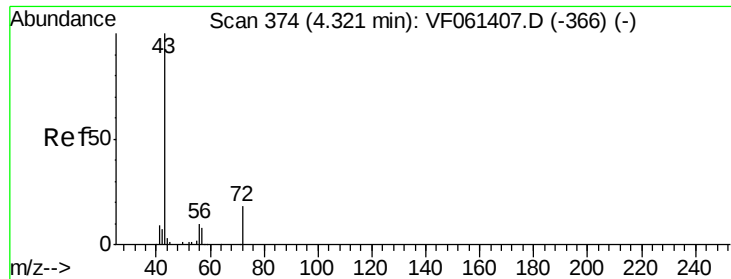
Tot Ion: 84 Resp: 6472
Ion Ratio Lower Upper
84 100
49 125.6 120.0 180.0
51 34.0 38.6 58.0#
86 49.5 61.0 91.6#



#23
Vinyl Acetate
Concen: 3.806 ug/l
RT: 3.18 min Scan# 259
Delta R.T. 0.01 min
Lab File: VF061539.D
Acq: 28 Jan 2019 14:10

Tgt Ion: 43 Resp: 1912
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#

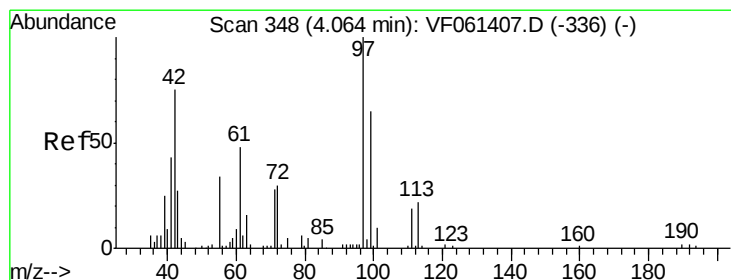
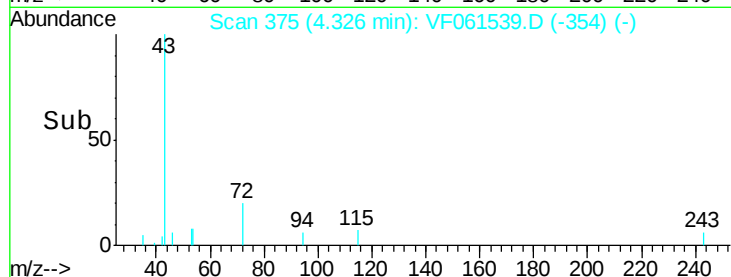
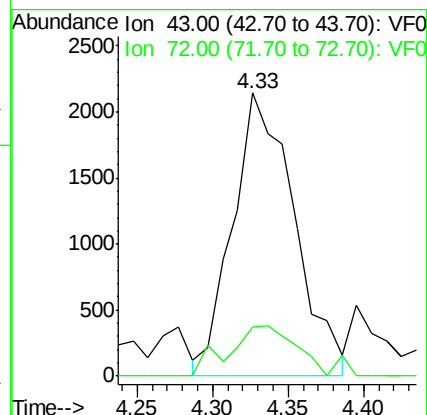
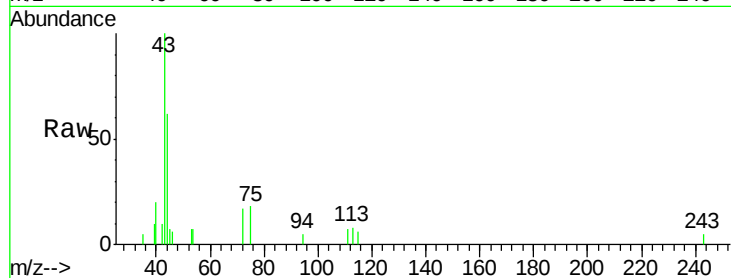




#25
2-Butanone
Concen: 6.659 ug/l
RT: 4.33 min Scan# 375
Delta R.T. 0.01 min
Lab File: VF061539.D
Acq: 28 Jan 2019 14:10

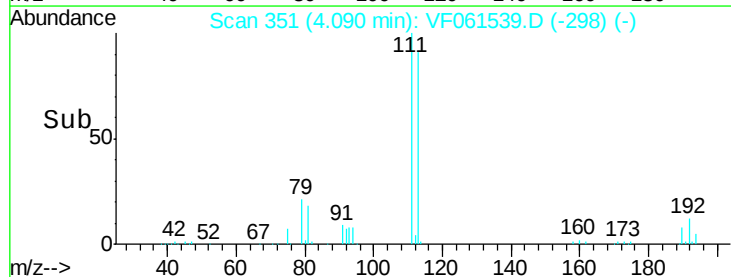
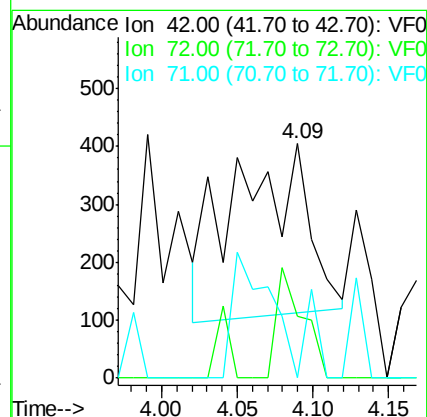
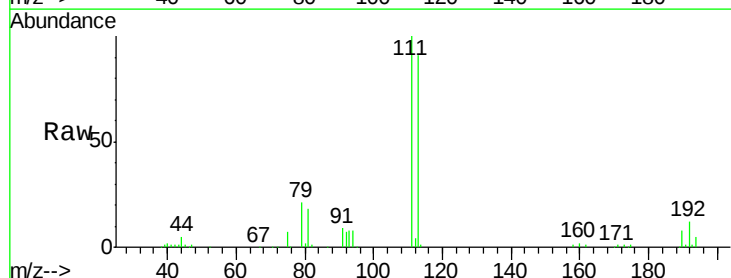
Instrument :
MSVOA_F
ClientSampleId :
OR-01-012519-B

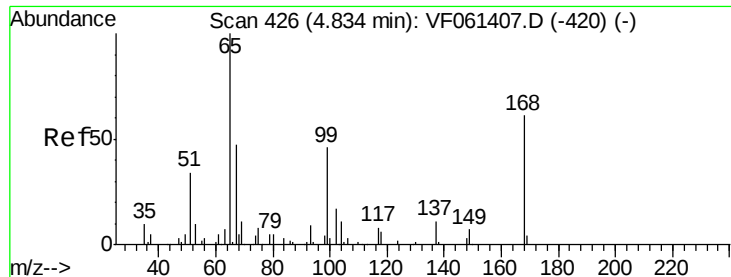
Tot Ion: 43 Resp: 6070
Ion Ratio Lower Upper
43 100
72 17.2 15.8 23.6



#29
Tetrahydrofuran
Concen: 2.581 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.03 min
Lab File: VF061539.D
Acq: 28 Jan 2019 14:10

Tgt Ion: 42 Resp: 1013
Ion Ratio Lower Upper
42 100
72 23.2 28.9 43.3#
71 0.0 29.6 44.4#





#33

1,2-Dichloroethane-d4

Concen: 44.501 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

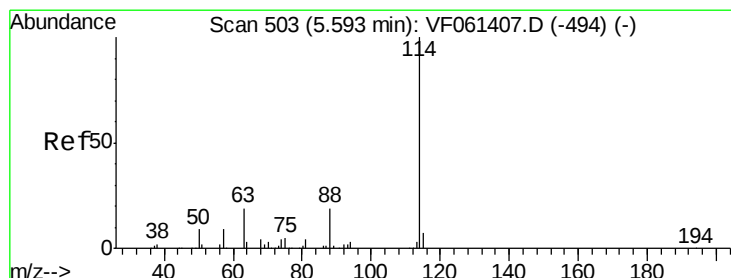
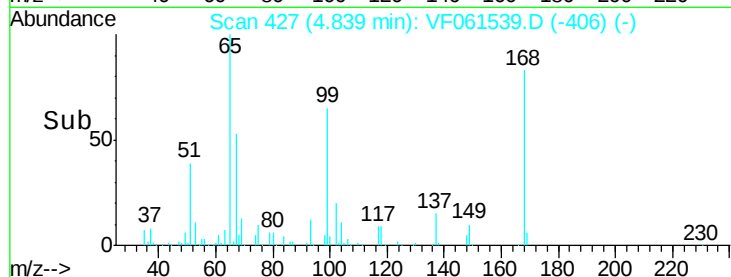
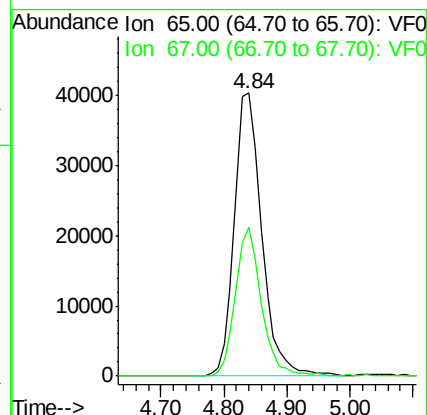
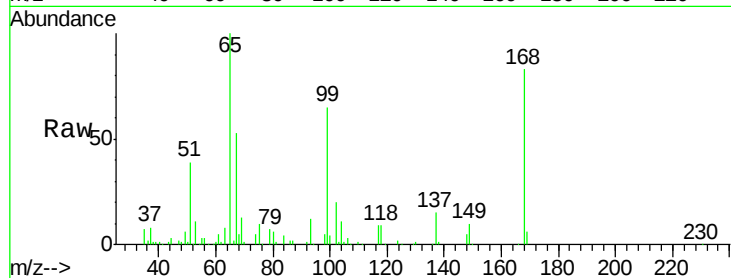
OR-01-012519-B

Tot Ion: 65 Resp: 121593

Ion Ratio Lower Upper

65 100

67 52.8 0.0 99.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

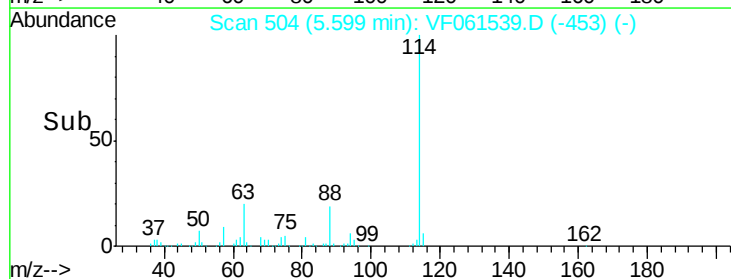
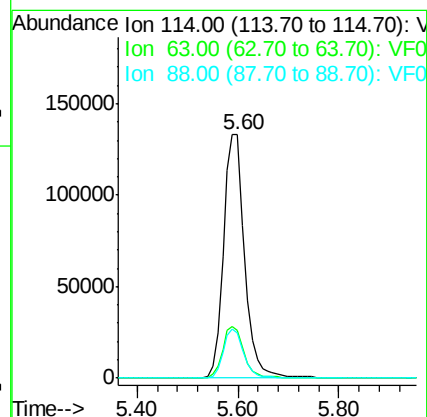
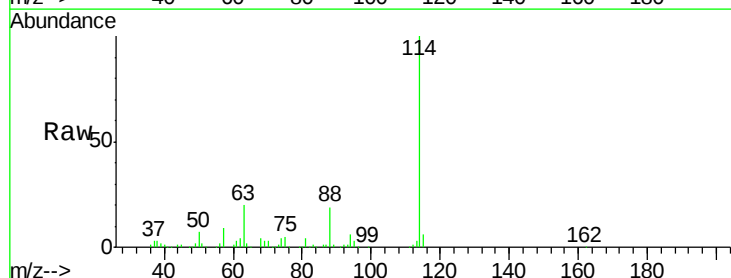
Tgt Ion:114 Resp: 390288

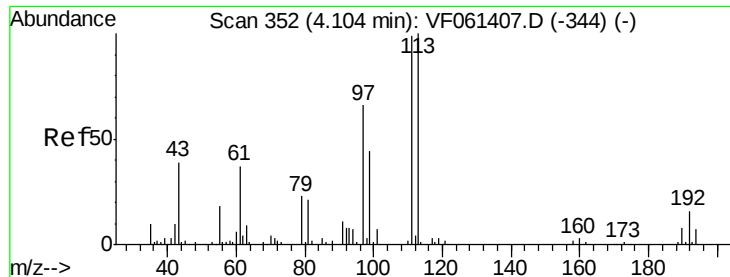
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

88 18.7 0.0 37.4



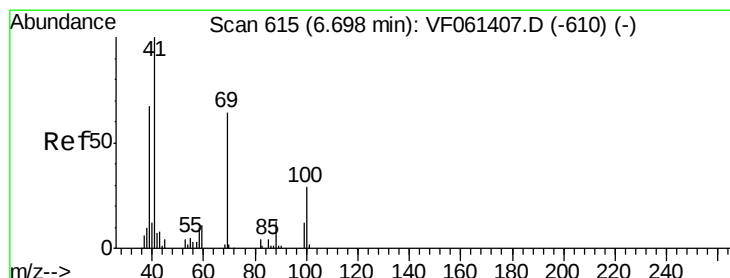
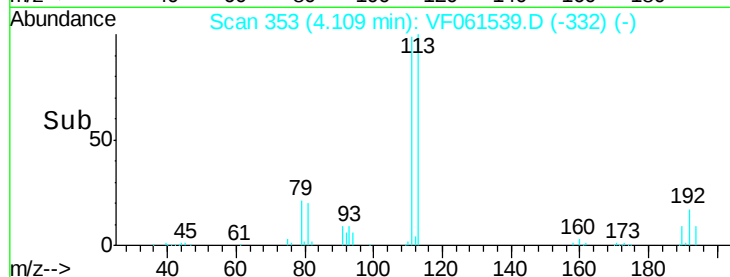
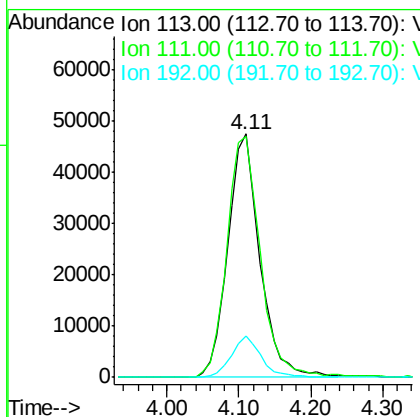
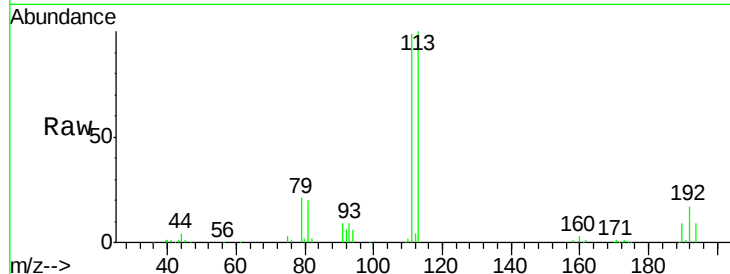


#35
Dibromofluoromethane
Concen: 47.818 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061539.D
Acq: 28 Jan 2019 14:10

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

Tot Ion:113 Resp: 147267

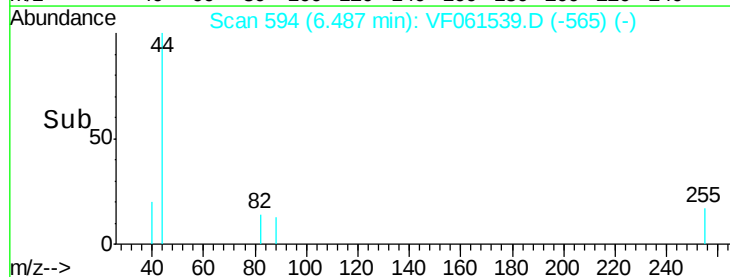
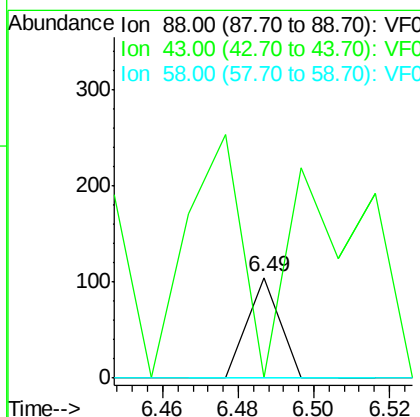
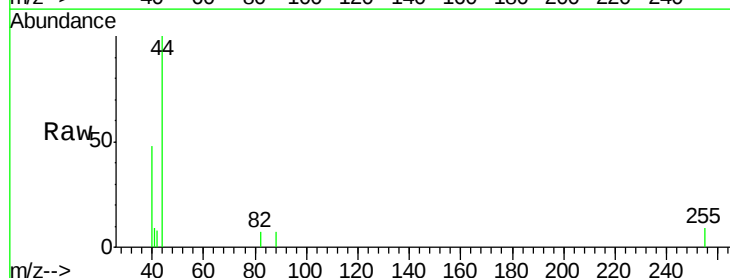
Ion	Ratio	Lower	Upper
113	100		
111	98.8	79.4	119.0
192	17.0	12.4	18.6

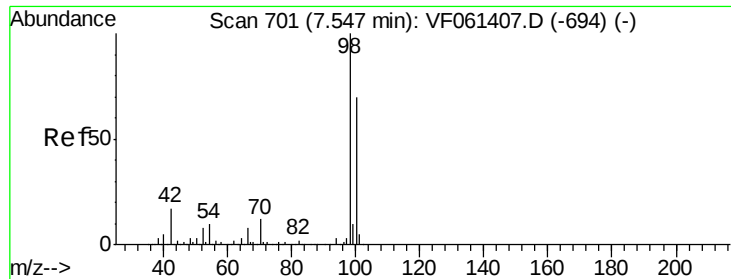


#49
1,4-Dioxane
Concen: Below Cal
RT: 6.49 min Scan# 594
Delta R.T. -0.21 min
Lab File: VF061539.D
Acq: 28 Jan 2019 14:10

Tgt Ion: 88 Resp: 62

Ion	Ratio	Lower	Upper
88	100		
43	0.0	55.5	83.3#
58	0.0	59.9	89.9#





#50

Toluene-d8

Concen: 40.382 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

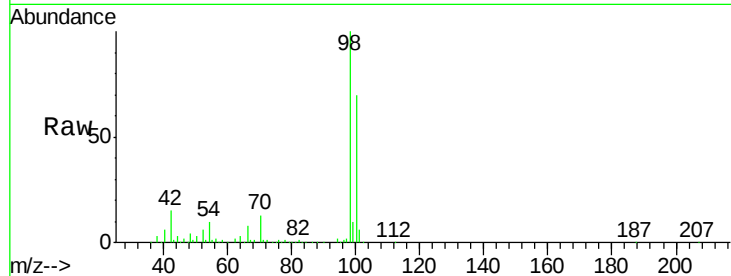
OR-01-012519-B

Tot Ion: 98 Resp: 340736

Ion Ratio Lower Upper

98 100

100 70.5 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.54

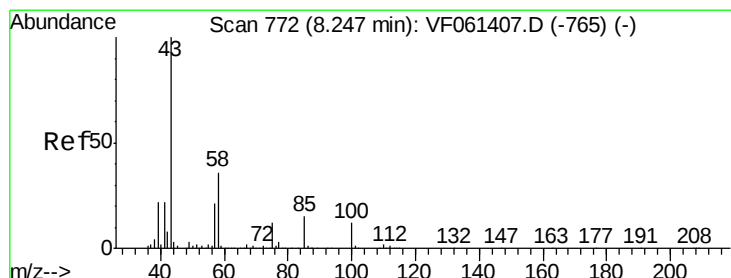
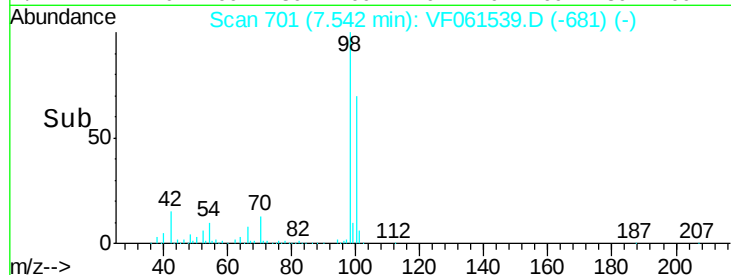
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.778 ug/l

RT: 8.26 min Scan# 774

Delta R.T. 0.02 min

Lab File: VF061539.D

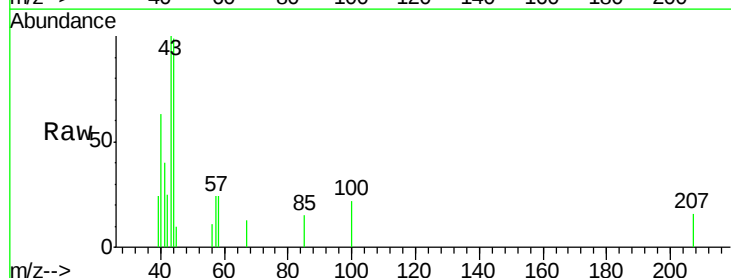
Acq: 28 Jan 2019 14:10

Tgt Ion: 43 Resp: 2967

Ion Ratio Lower Upper

43 100

58 23.5 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

1200

1000

800

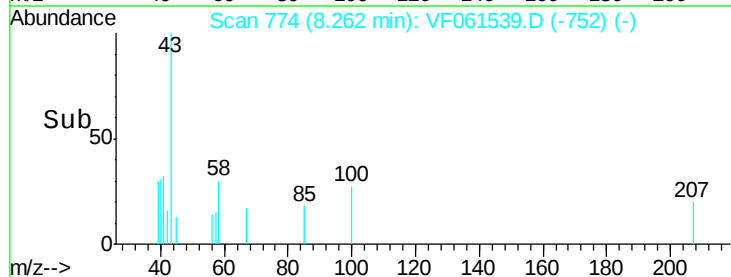
600

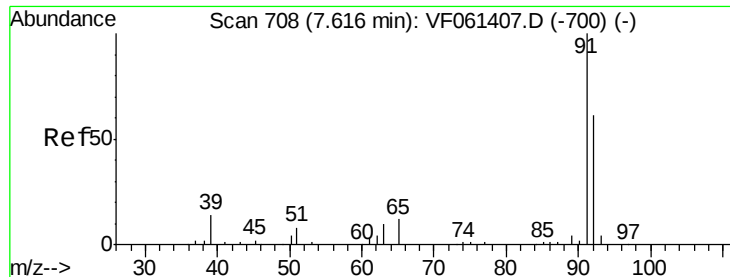
400

200

0

Time-->





#52

Toluene

Concen: 2.614 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

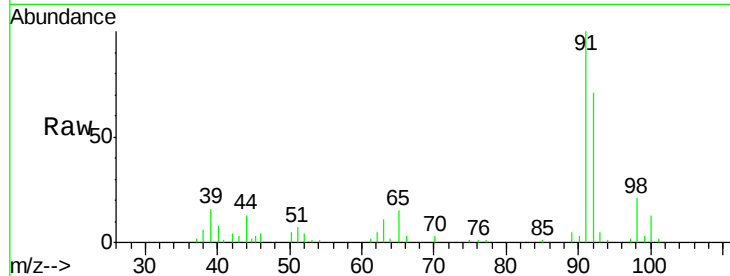
OR-01-012519-B

Tot Ion: 92 Resp: 17333

Ion Ratio Lower Upper

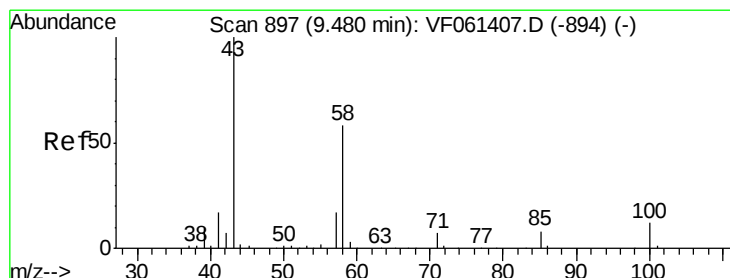
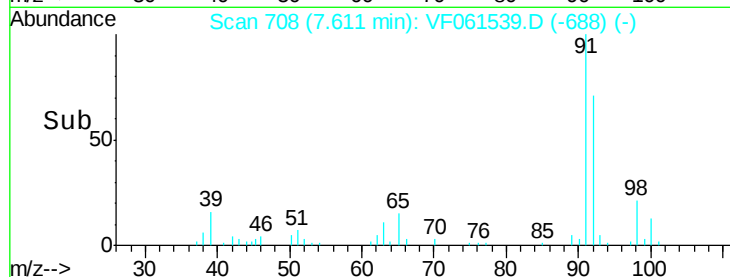
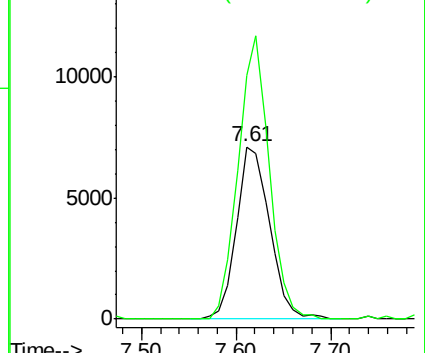
92 100

91 141.5 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.034 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061539.D

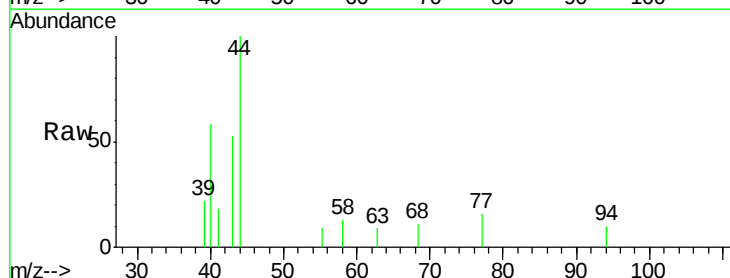
Acq: 28 Jan 2019 14:10

Tgt Ion: 43 Resp: 1203

Ion Ratio Lower Upper

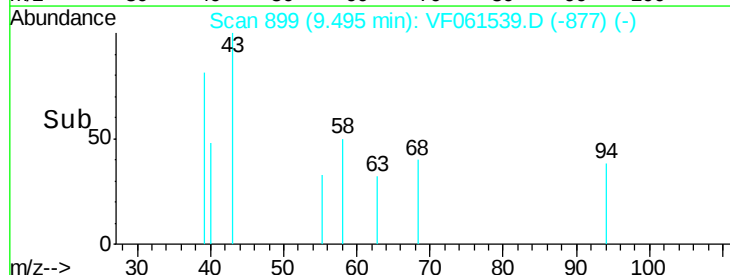
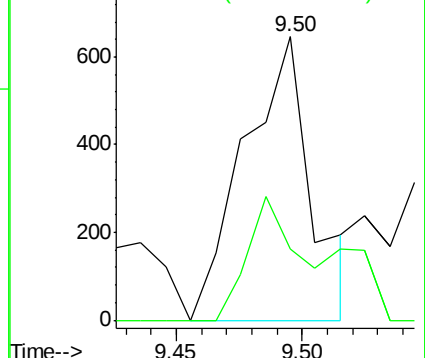
43 100

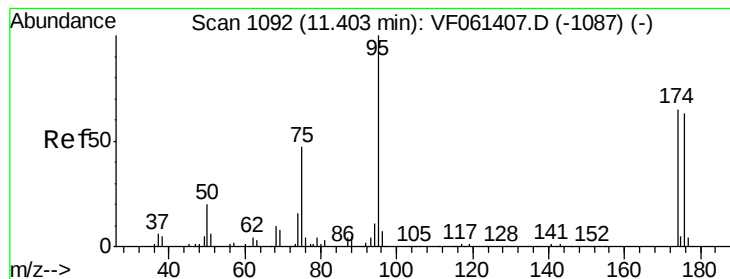
58 25.2 25.9 77.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 36.662 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

OR-01-012519-B

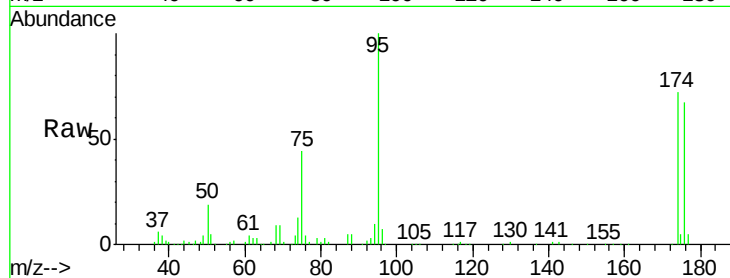
Tot Ion: 95 Resp: 144536

Ion Ratio Lower Upper

95 100

174 72.1 0.0 130.4

176 67.0 0.0 126.2

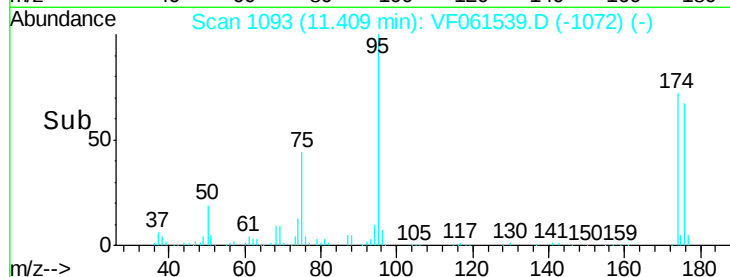


Abundance Ion 95.00 (94.70 to 95.70): VF061407.D (-1087) (-)

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

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

Time-->

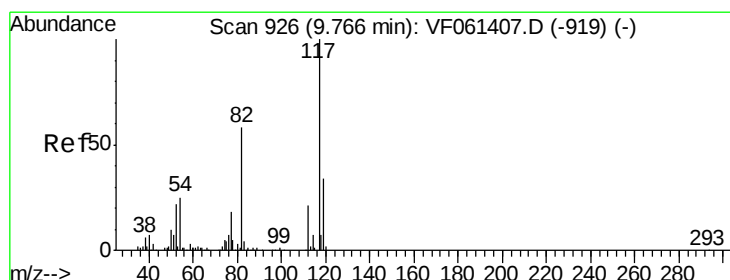


Abundance Ion 95.00 (94.70 to 95.70): VF061539.D (-1072) (-)

Ion 174.00 (173.70 to 174.70): VF061539.D (-1072) (-)

Ion 176.00 (175.70 to 176.70): VF061539.D (-1072) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

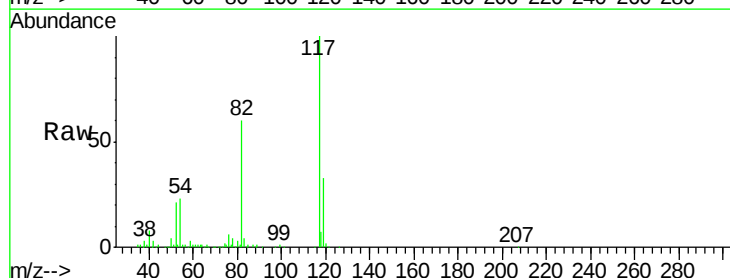
Tgt Ion: 117 Resp: 328474

Ion Ratio Lower Upper

117 100

82 59.7 46.4 69.6

119 33.0 27.2 40.8

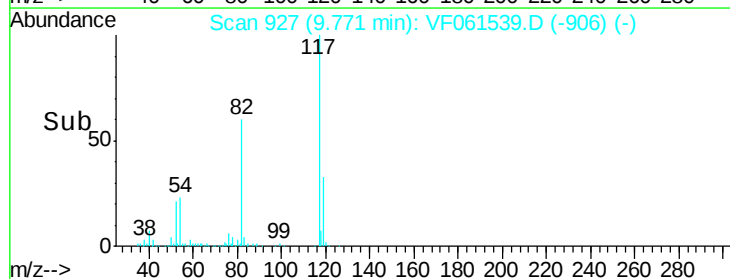


Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

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

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

Time-->

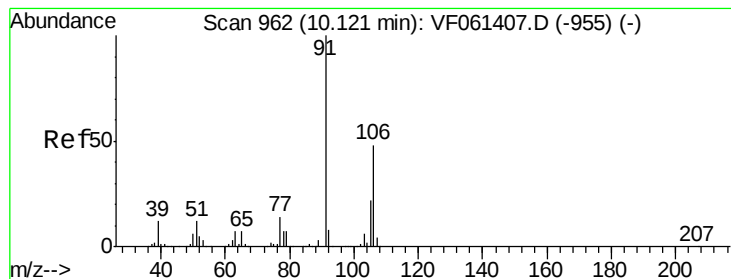


Abundance Ion 117.00 (116.70 to 117.70): VF061539.D (-906) (-)

Ion 82.00 (81.70 to 82.70): VF061539.D (-906) (-)

Ion 119.00 (118.70 to 119.70): VF061539.D (-906) (-)

Time-->



#68

m/p-Xvlenes

Concen: 1.676 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.01 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

Instrument :

MSVOA_F

ClientSampleId :

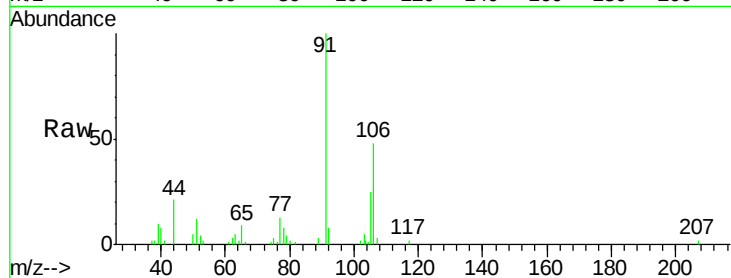
OR-01-012519-B

Tot Ion:106 Resp: 7356

Ion Ratio Lower Upper

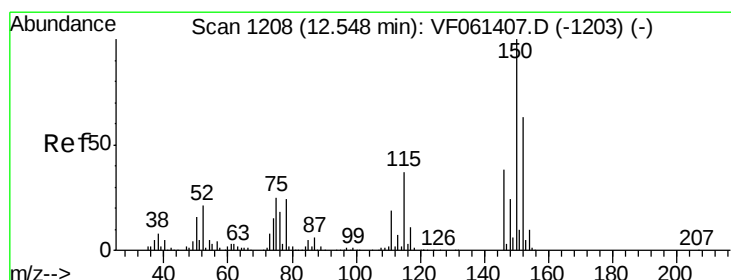
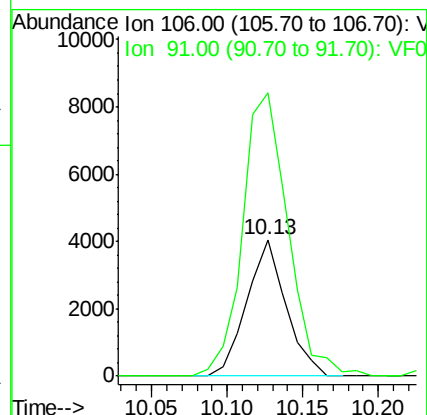
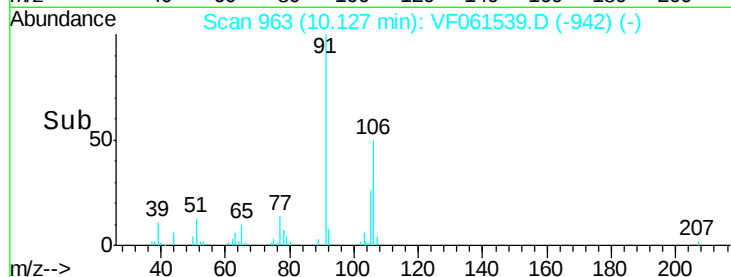
106 100

91 207.6 166.2 249.4



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: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061539.D

Acq: 28 Jan 2019 14:10

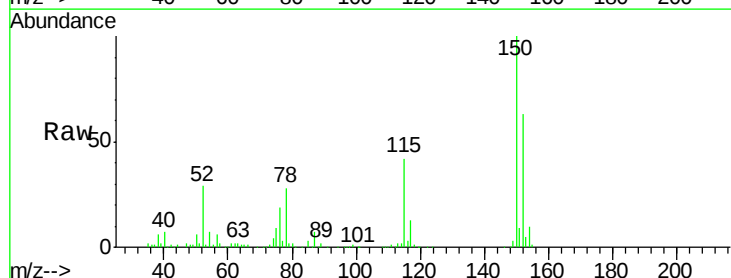
Tgt Ion:152 Resp: 143774

Ion Ratio Lower Upper

152 100

115 66.1 30.0 90.0

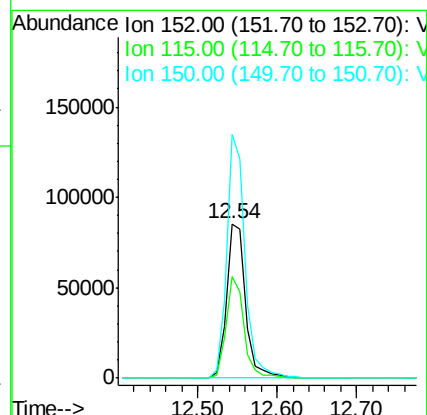
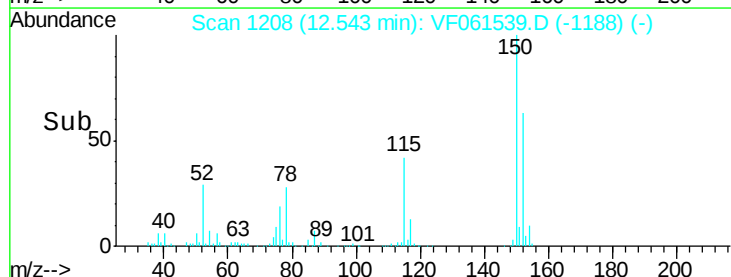
150 157.9 0.0 321.4

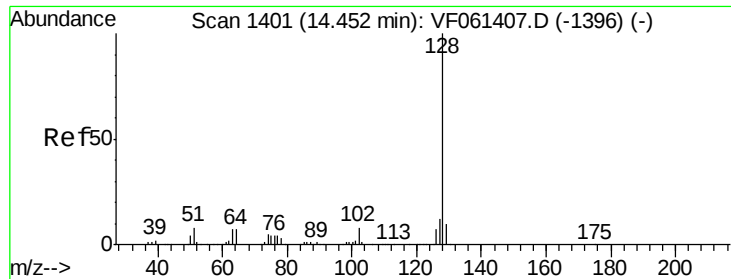


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

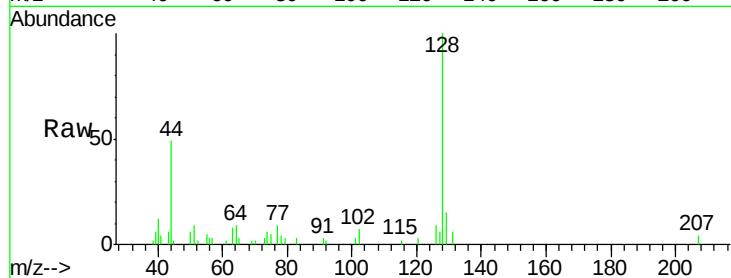




#95
 Naphthalene
 Concen: 1.372 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061539.D
 Acq: 28 Jan 2019 14:10

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

Tot Ion	Ratio	Lower	Upper
128	100		
127	6.0	9.5	14.3#
129	15.4	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

