

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012519\
 Data File : VF061522.D
 Acq On : 25 Jan 2019 15:52
 Operator : VA/AP
 Sample : K1238-01RE
 Misc : 7.19g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jan 28 00:08:51 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	4.87	168	197254	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.59	114	354023	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	313186	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	160932	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	100087	41.10	ug/l	0.01
Spiked Amount	50.000		Recovery	=	82.20%	
35) Dibromofluoromethane	4.11	113	113238	40.54	ug/l	0.01
Spiked Amount	50.000		Recovery	=	81.08%	
50) Toluene-d8	7.56	98	271160	35.43	ug/l	0.01
Spiked Amount	50.000		Recovery	=	70.86%	
62) 4-Bromofluorobenzene	11.41	95	132775	37.13	ug/l	0.01
Spiked Amount	50.000		Recovery	=	74.26%	

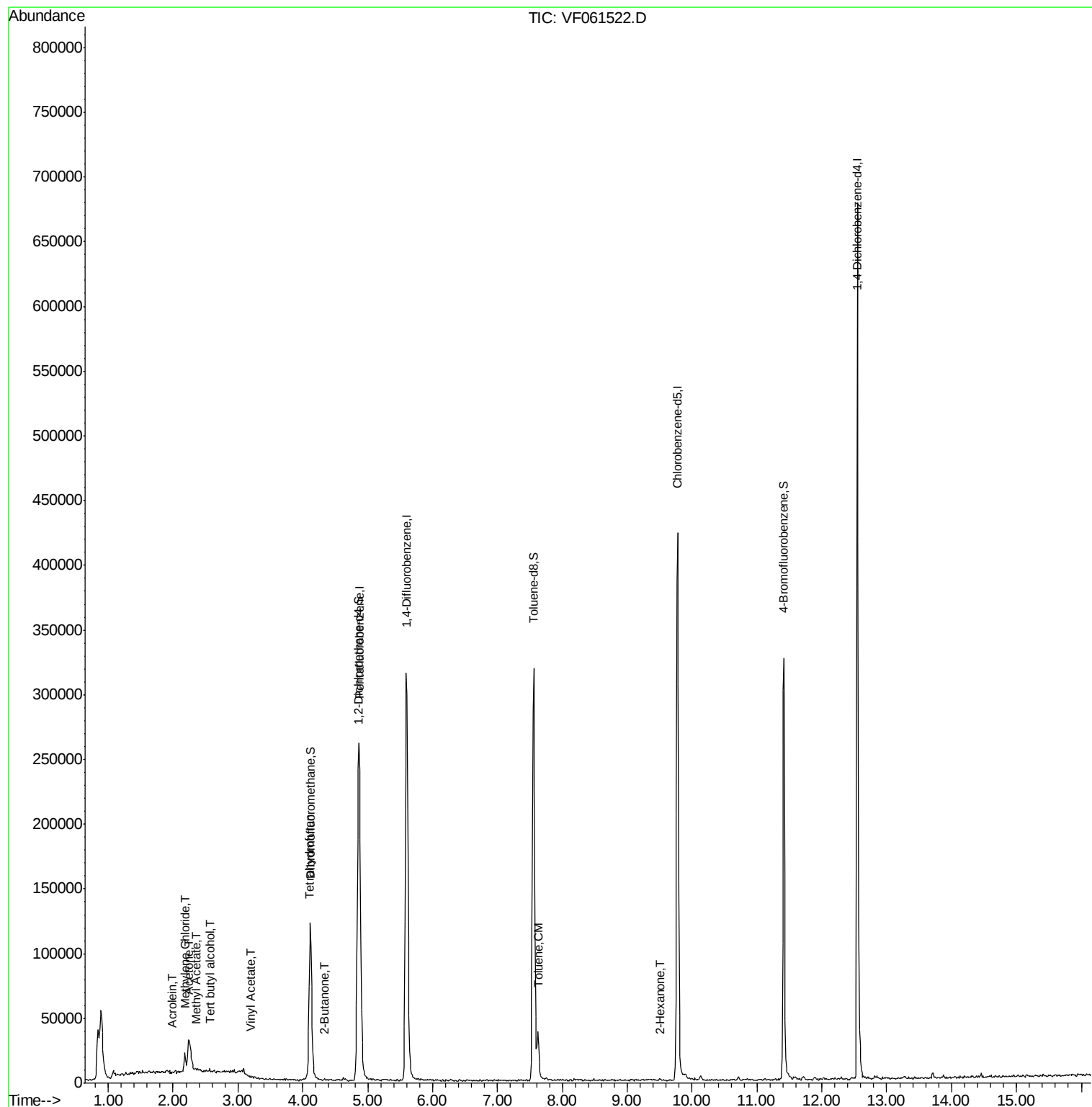
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	509	4.938	ug/l #	64
13) Acrolein	1.98	56	378	14.418	ug/l	89
14) Allyl chloride	2.07	41	486	Below Cal	#	45
16) Acetone	2.24	43	25231	51.644	ug/l	94
18) Methyl Acetate	2.35	43	1037	1.070	ug/l #	61
20) Methylene Chloride	2.18	84	5620	1.691	ug/l #	90
23) Vinyl Acetate	3.20	43	635	3.422	ug/l #	78
25) 2-Butanone	4.34	43	1429	1.759	ug/l #	57
29) Tetrahydrofuran	4.10	42	1329	3.799	ug/l #	64
49) 1,4-Dioxane	6.34	88	62	Below Cal	#	13
52) Toluene	7.63	92	18826	3.130	ug/l	78
59) 2-Hexanone	9.51	43	1216	1.152	ug/l	82

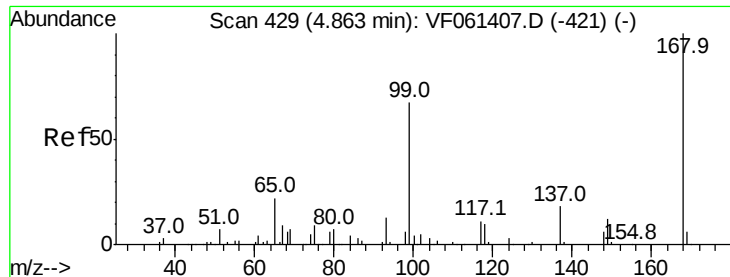
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF012519\
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MSVOA_F
ClientSampleId :

Quant Time: Jan 28 00:08:51 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: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

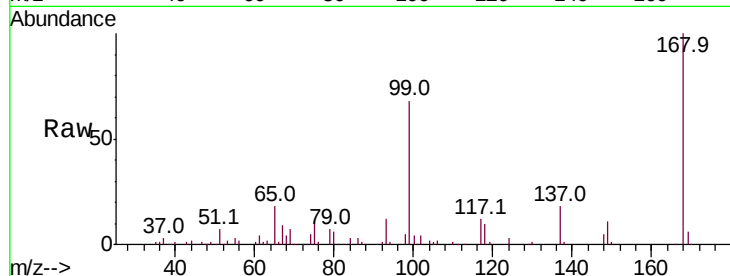
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 197254

Ion Ratio Lower Upper

168 100

99 68.0 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF061407.D (-421) (-)

Ion 99.00 (98.70 to 99.70): VF061407.D (-421) (-)

4.87

60000

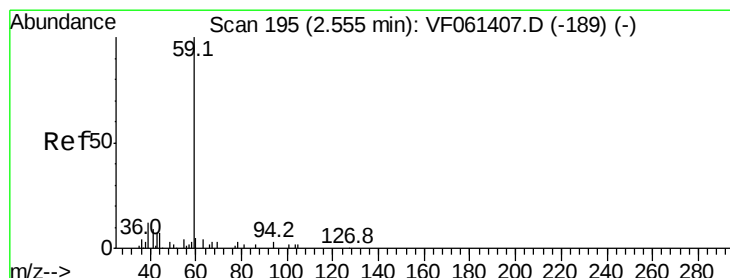
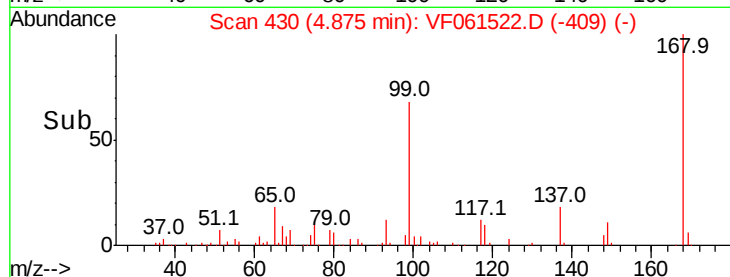
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 4.938 ug/l

RT: 2.57 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF061522.D

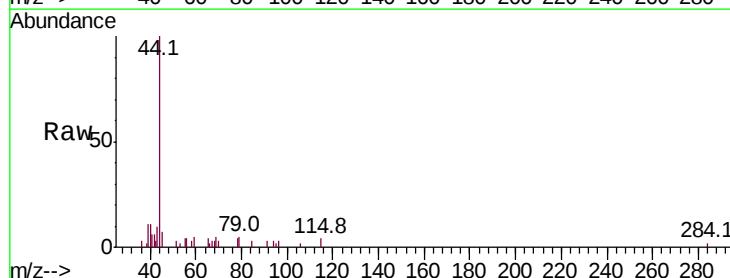
Acq: 25 Jan 2019 15:52

Tgt Ion: 59 Resp: 509

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF061407.D (-189) (-)

Ion 57.00 (56.70 to 57.70): VF061407.D (-189) (-)

2.57

250

200

150

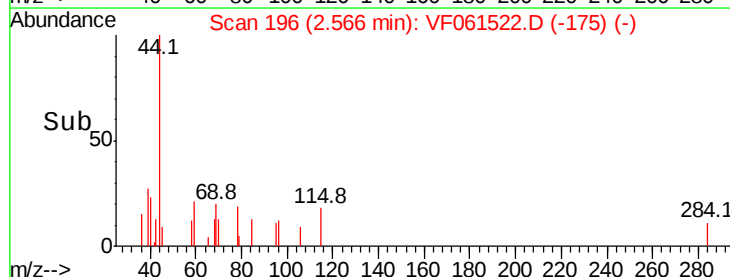
100

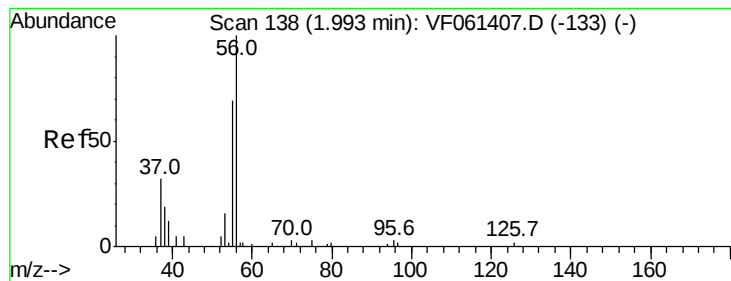
50

0

Time-->

2.55 2.56 2.57 2.58 2.59





#13

Acrolein

Concen: 14.418 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

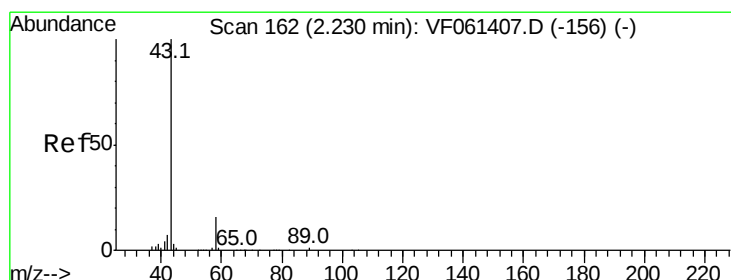
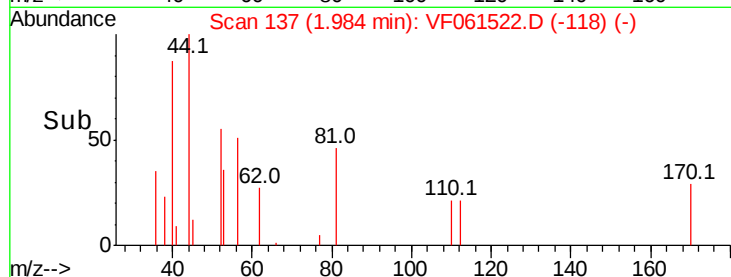
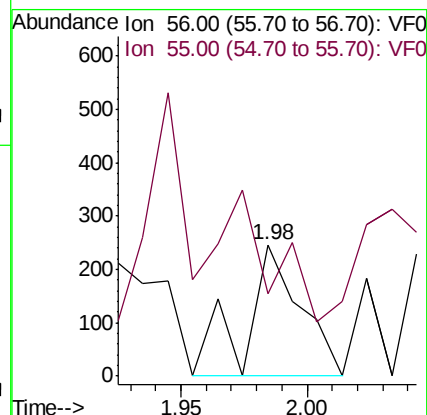
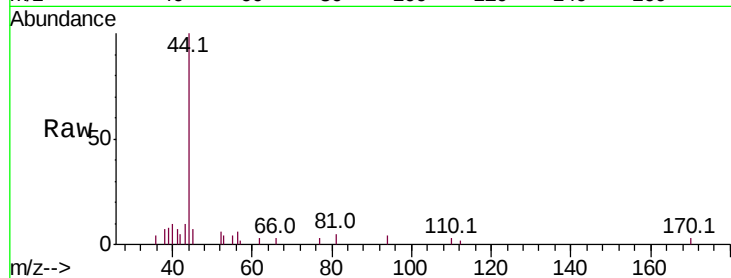
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 378

Ion Ratio Lower Upper

56 100

55 62.6 57.5 86.3



#16

Acetone

Concen: 51.644 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061522.D

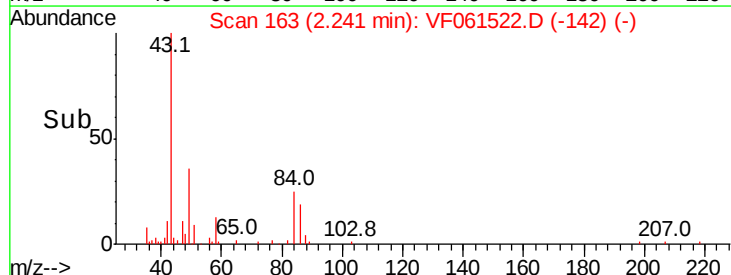
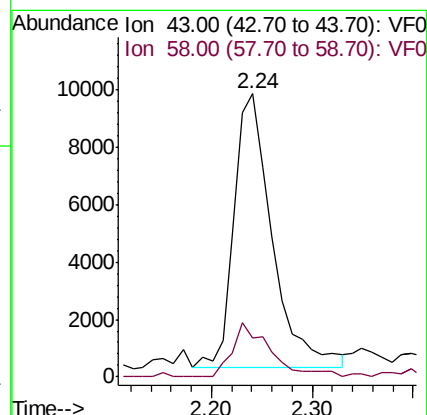
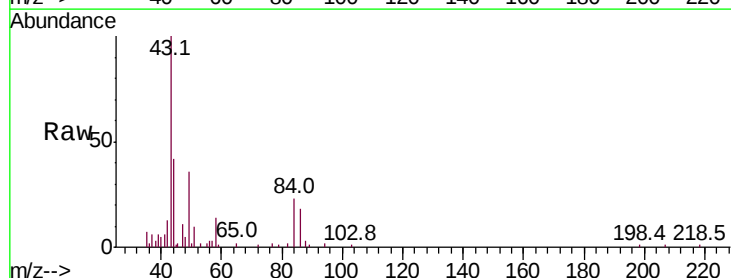
Acq: 25 Jan 2019 15:52

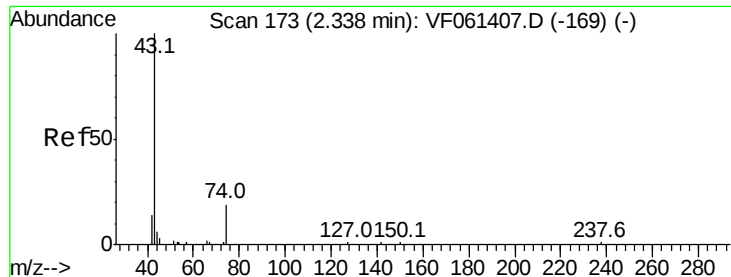
Tgt Ion: 43 Resp: 25231

Ion Ratio Lower Upper

43 100

58 13.9 13.3 19.9

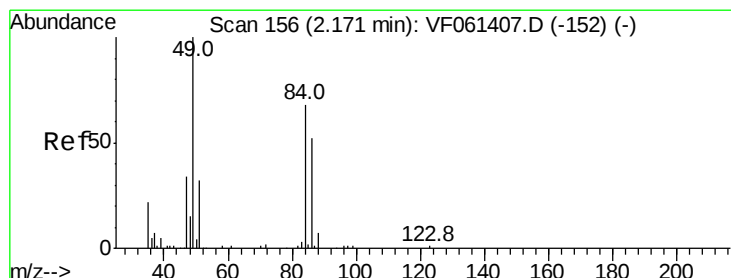
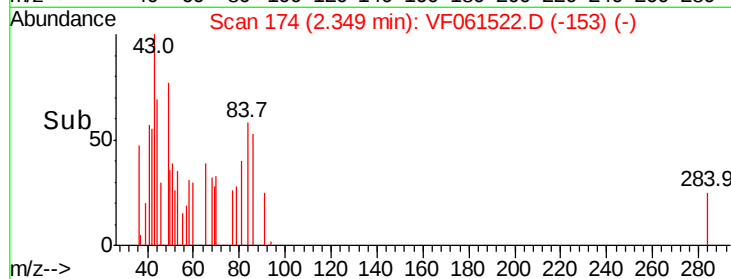
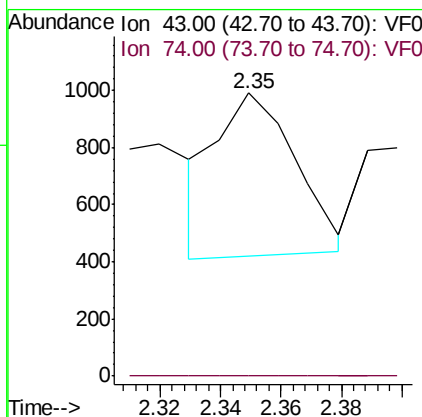
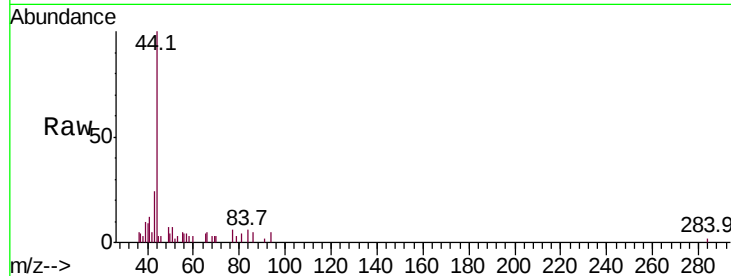




#18
Methyl Acetate
Concen: 1.070 ug/l
RT: 2.35 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061522.D
Acq: 25 Jan 2019 15:52

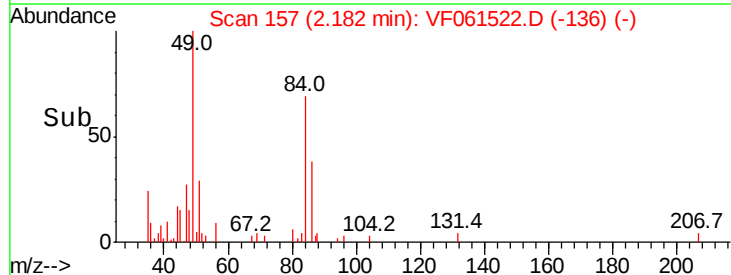
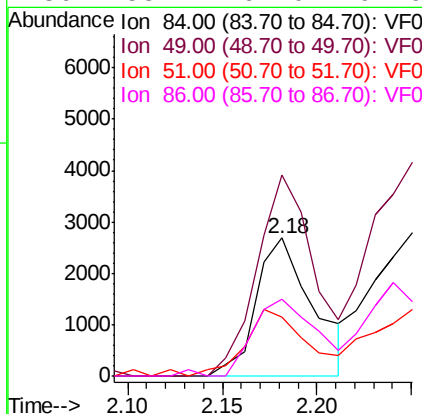
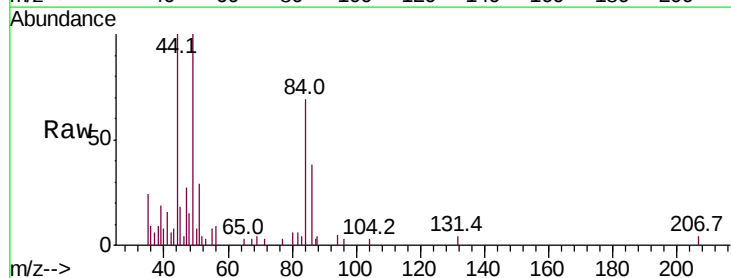
Instrument :
MSVOA_F
ClientSampled :

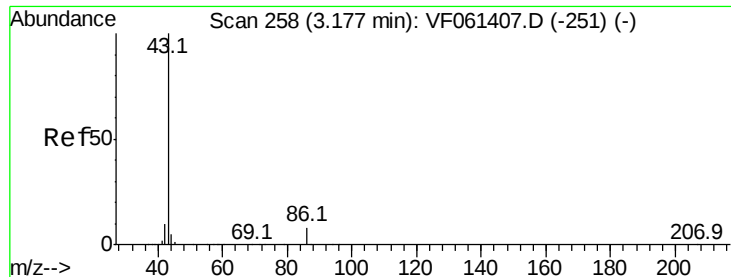
Tot Ion: 43 Resp: 1037
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#20
Methylene Chloride
Concen: 1.691 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061522.D
Acq: 25 Jan 2019 15:52

Tgt Ion: 84 Resp: 5620
Ion Ratio Lower Upper
84 100
49 146.0 120.0 180.0
51 42.3 38.6 58.0
86 55.7 61.0 91.6#





#23

Vinyl Acetate

Concen: 3.422 ug/l

RT: 3.20 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

Instrument :

MSVOA_F

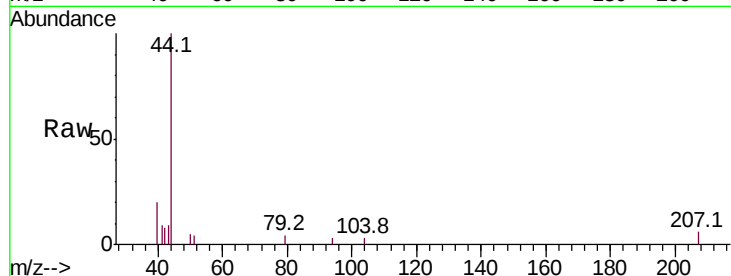
ClientSampleId :

Tot Ion: 43 Resp: 635

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

500

400

300

200

100

0

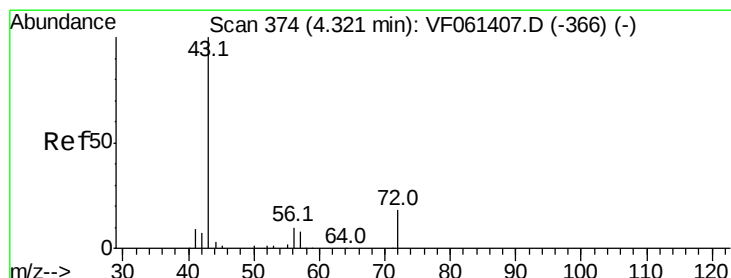
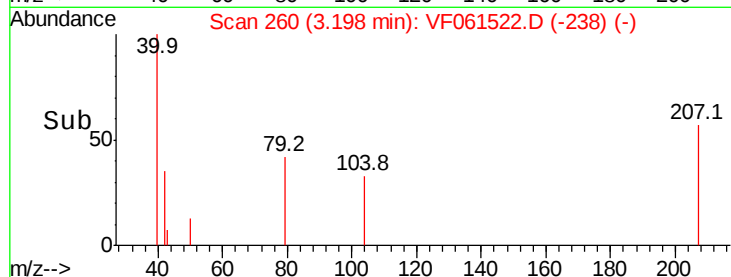
3.16

3.18

3.20

3.22

Time-->



#25

2-Butanone

Concen: 1.759 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061522.D

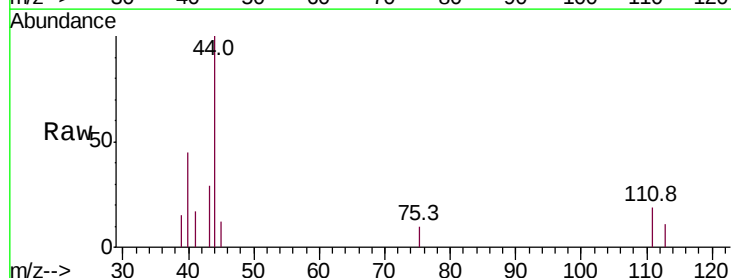
Acq: 25 Jan 2019 15:52

Tgt Ion: 43 Resp: 1429

Ion Ratio Lower Upper

43 100

72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

300

200

100

0

4.25

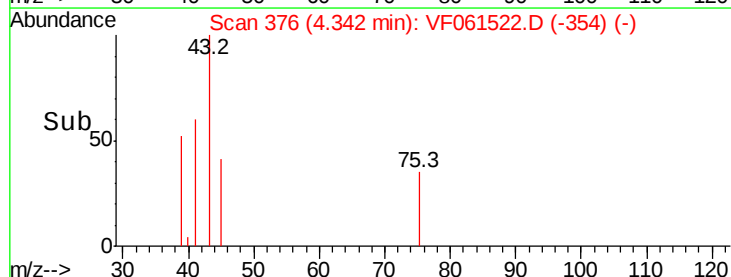
4.30

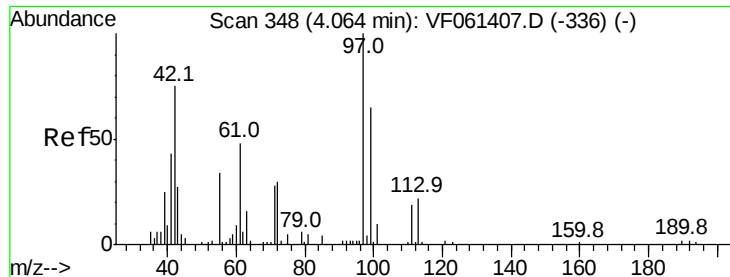
4.34

4.40

4.45

Time-->





#29

Tetrahydrofuran

Concen: 3.799 ug/l

RT: 4.10 min Scan# 351

Delta R.T. 0.03 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

Instrument :
MSVOA_F
ClientSampleId :

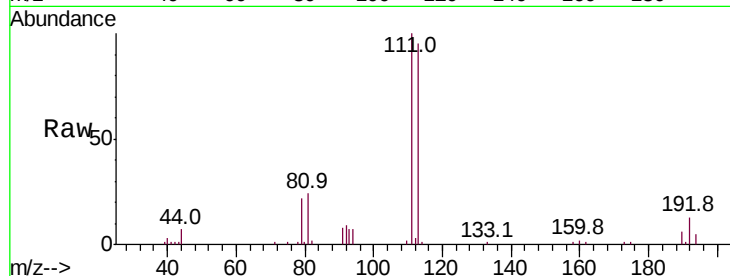
Tot Ion: 42 Resp: 1329

Ion Ratio Lower Upper

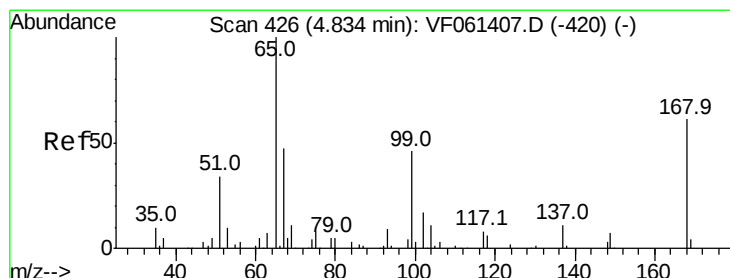
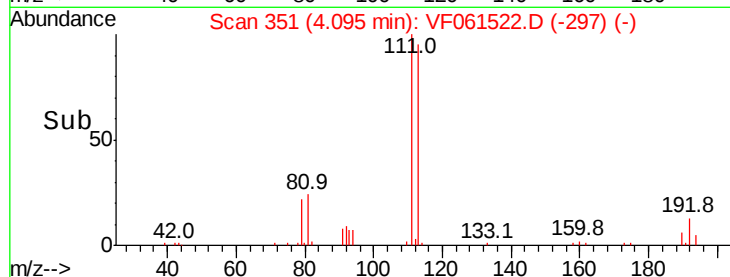
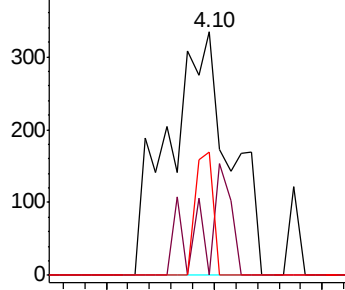
42 100

72 16.2 28.9 43.3#

71 14.6 29.6 44.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 41.097 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061522.D

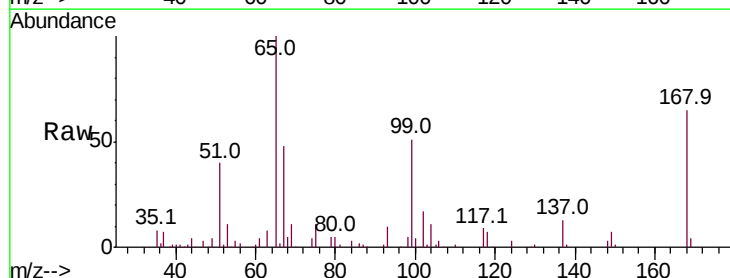
Acq: 25 Jan 2019 15:52

Tgt Ion: 65 Resp: 100087

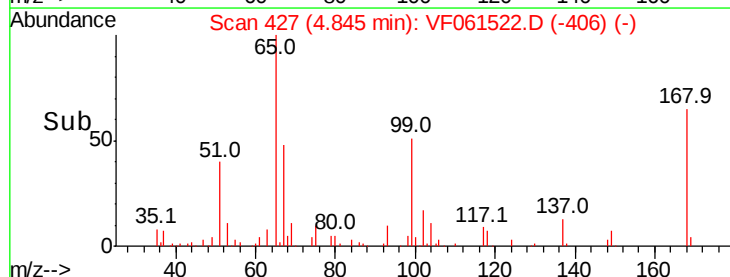
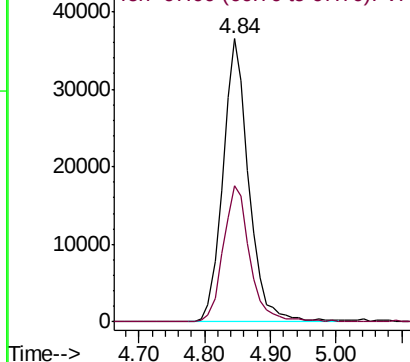
Ion Ratio Lower Upper

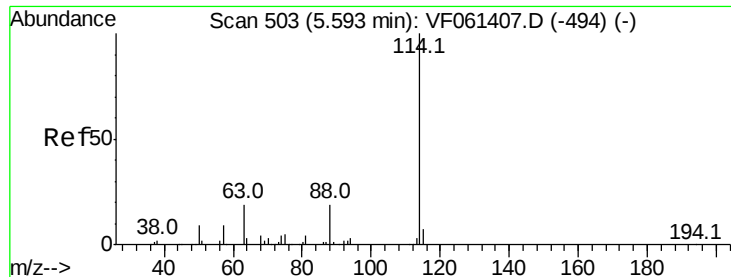
65 100

67 48.1 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. 0.00 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

Instrument :
MSVOA_F
ClientSampleId :

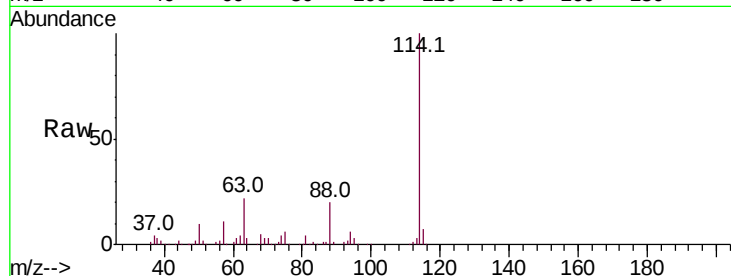
Tot Ion:114 Resp: 354023

Ion Ratio Lower Upper

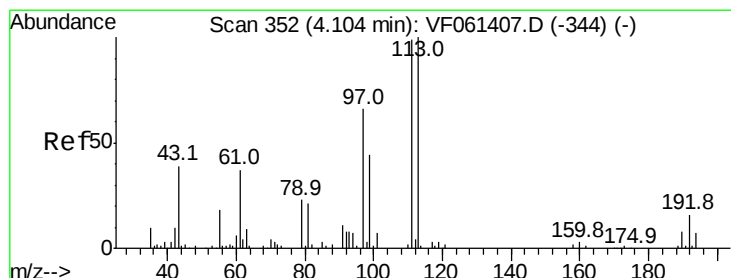
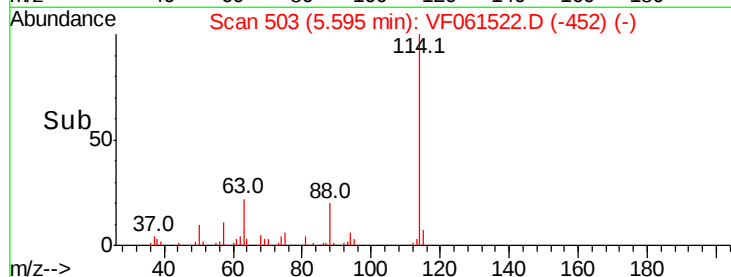
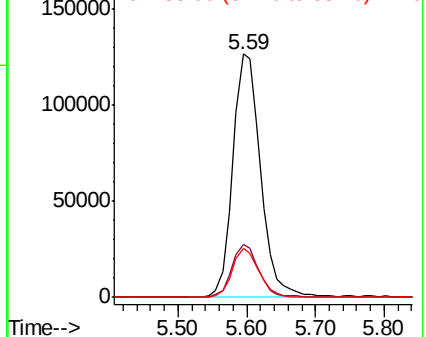
114 100

63 21.7 0.0 39.0

88 20.1 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: 40.536 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

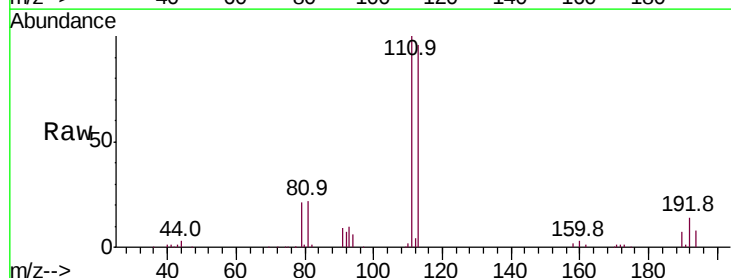
Tgt Ion:113 Resp: 113238

Ion Ratio Lower Upper

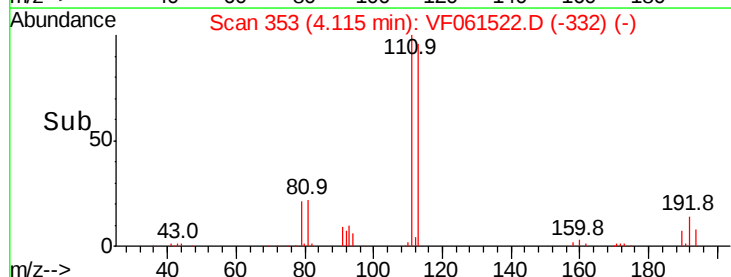
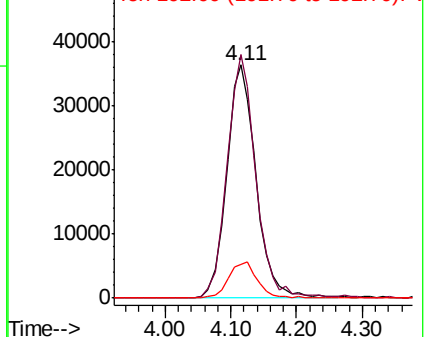
113 100

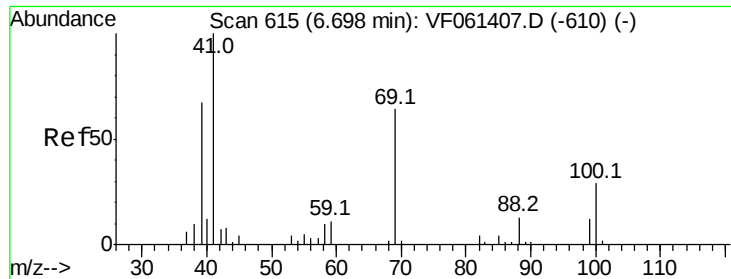
111 104.3 79.4 119.0

192 14.3 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





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.34 min Scan# 579

Delta R.T. -0.35 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

Instrument :
MSVOA_F
ClientSampled :

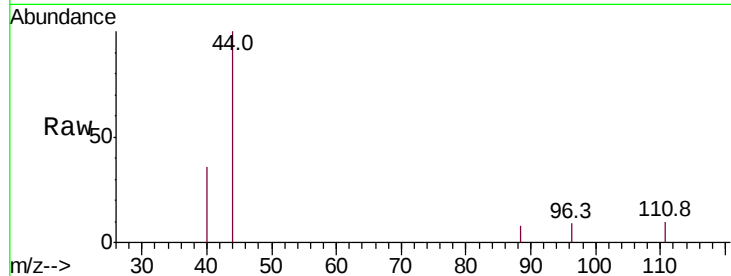
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

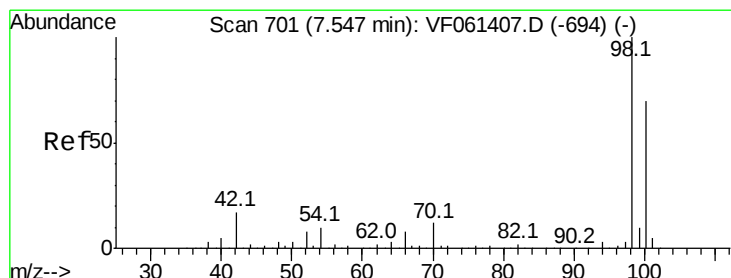
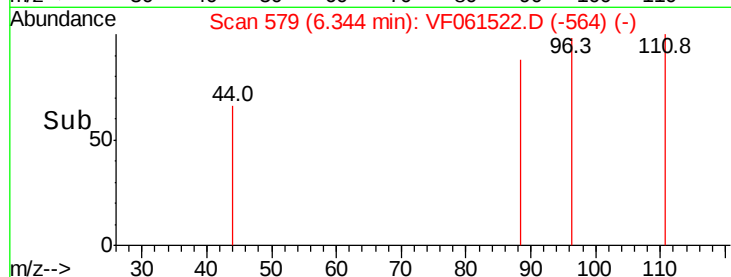
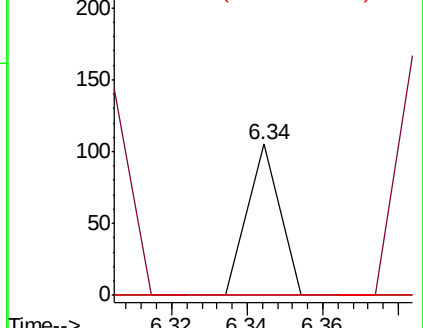
58 0.0 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 35.428 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.01 min

Lab File: VF061522.D

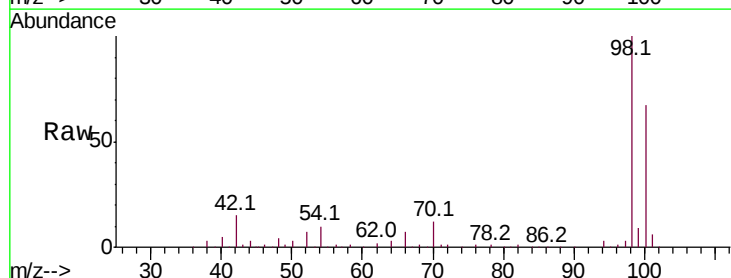
Acq: 25 Jan 2019 15:52

Tgt Ion: 98 Resp: 271160

Ion Ratio Lower Upper

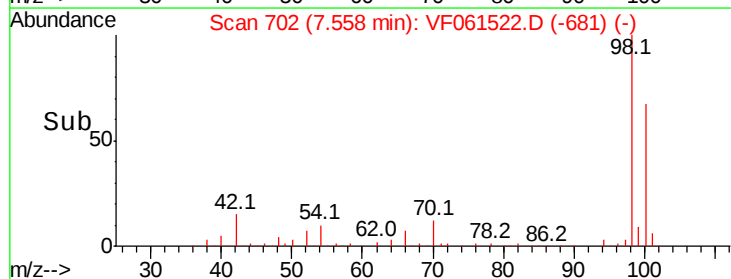
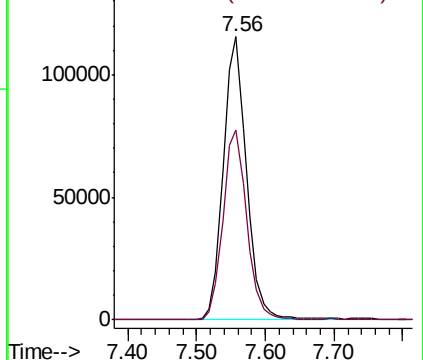
98 100

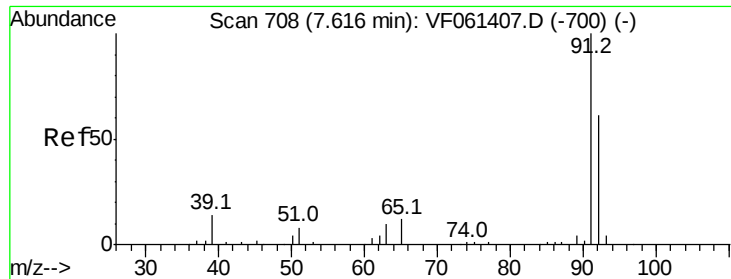
100 67.2 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 3.130 ug/l

RT: 7.63 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

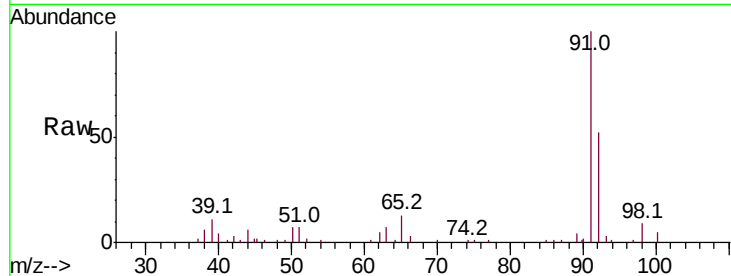
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 92 Resp: 18826

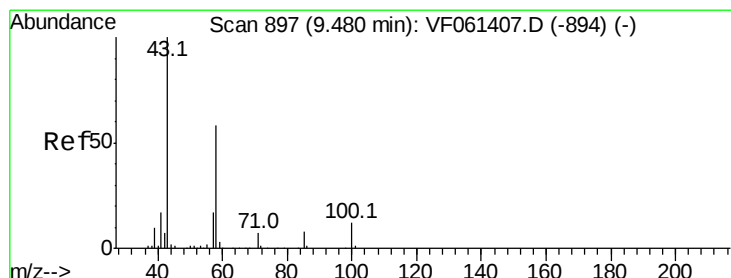
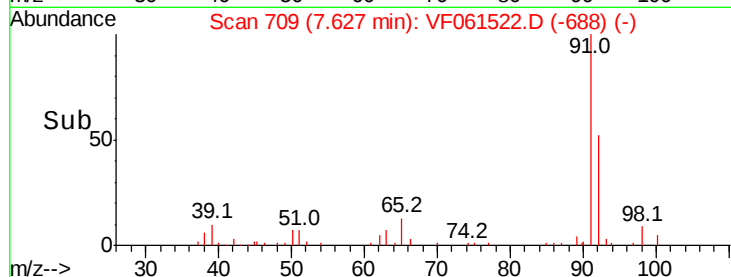
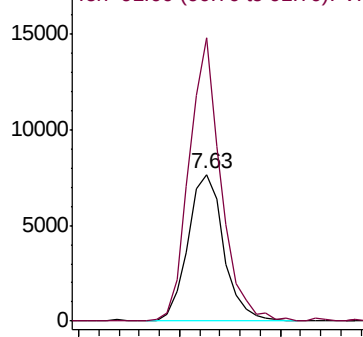
Ion Ratio Lower Upper

92 100

91 192.9 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0
Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.152 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.03 min

Lab File: VF061522.D

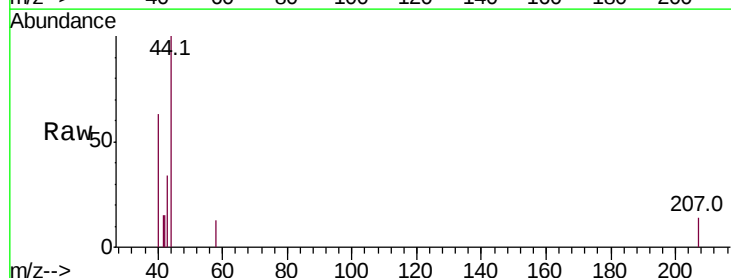
Acq: 25 Jan 2019 15:52

Tgt Ion: 43 Resp: 1216

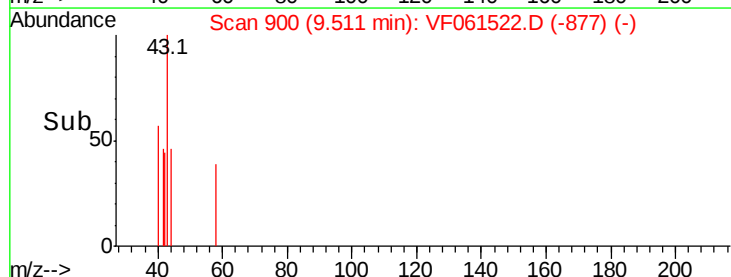
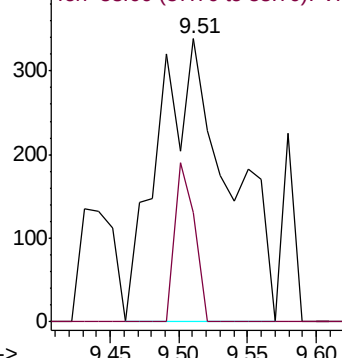
Ion Ratio Lower Upper

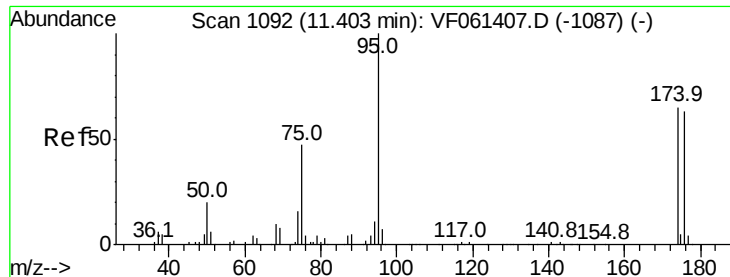
43 100

58 38.8 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: 37.129 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

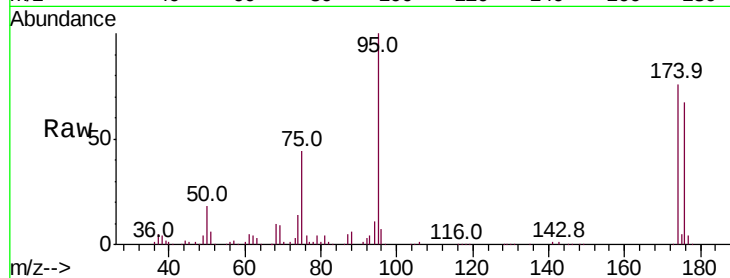
Tot Ion: 95 Resp: 132775

Ion Ratio Lower Upper

95 100

174 75.8 0.0 130.4

176 67.1 0.0 126.2

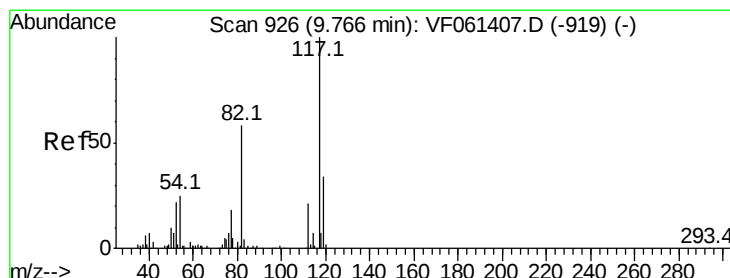
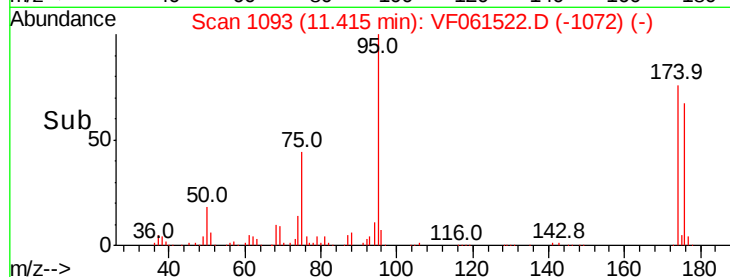


Abundance Ion 95.00 (94.70 to 95.70): VF061407.D (-1087) (-)

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: 9.78 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

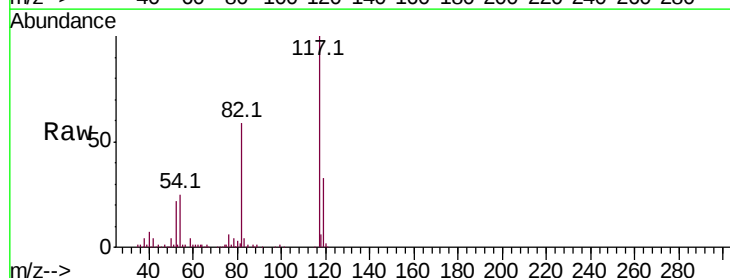
Tgt Ion: 117 Resp: 313186

Ion Ratio Lower Upper

117 100

82 59.0 46.4 69.6

119 32.9 27.2 40.8

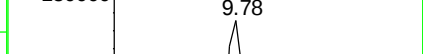
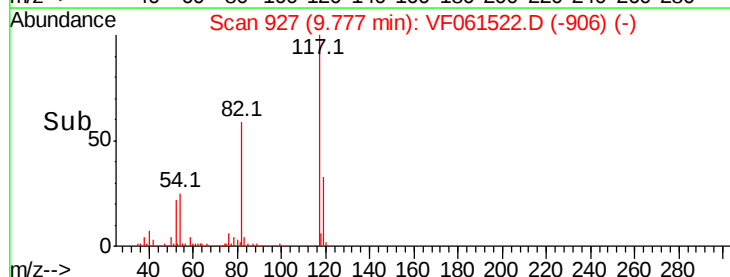


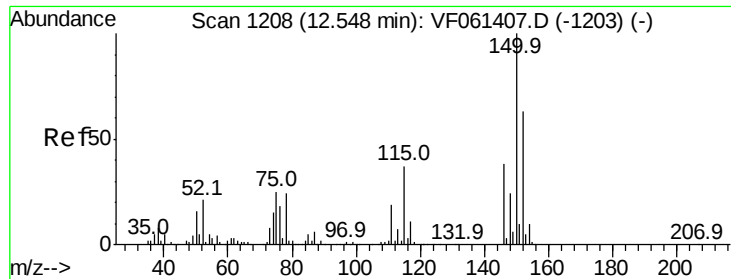
Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

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

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

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061522.D

Acq: 25 Jan 2019 15:52

Instrument :

MSVOA_F

ClientSampleId :

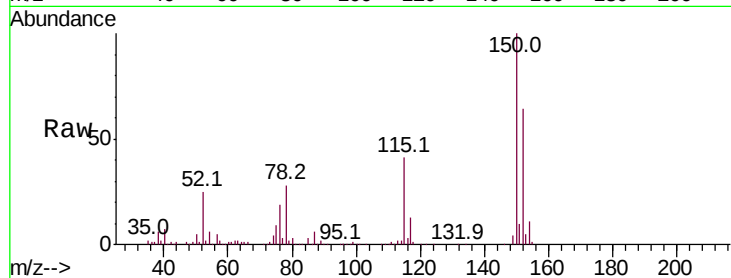
Tot Ion:152 Resp: 160932

Ion Ratio Lower Upper

152 100

115 64.9 30.0 90.0

150 156.8 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

