

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF012319\
 Data File : VF061479.D
 Acq On : 23 Jan 2019 12:24
 Operator : VA/AP
 Sample : VF0123SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBL01

Quant Time: Jan 24 02:53:31 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	4.85	168	197134	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	333360	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	289885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	166545	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	115680	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
35) Dibromofluoromethane	4.09	113	138064	52.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.98%	
50) Toluene-d8	7.54	98	351996	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.40	95	165041	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	

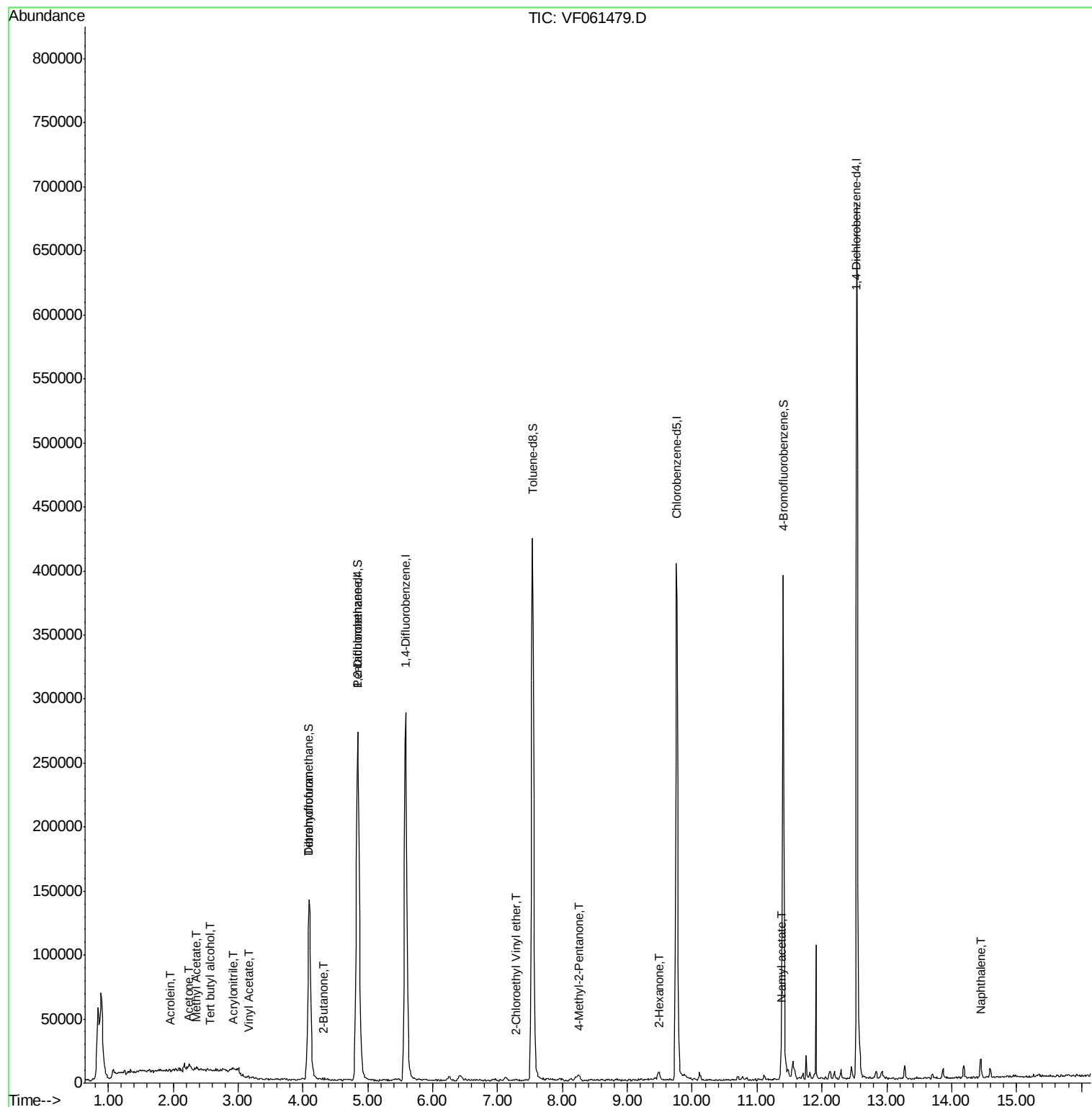
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	167	1.621	ug/l #	1
13) Acrolein	1.96	56	143	11.882	ug/l	98
14) Allyl chloride	2.11	41	349	Below Cal	#	75
15) Acrylonitrile	2.94	53	1694	6.419	ug/l #	69
16) Acetone	2.23	43	3466	7.099	ug/l #	86
18) Methyl Acetate	2.36	43	1453	1.501	ug/l #	61
20) Methylene Chloride	2.17	84	2009	Below Cal	#	55
23) Vinyl Acetate	3.18	43	911	3.521	ug/l #	78
25) 2-Butanone	4.31	43	1749	2.154	ug/l #	57
29) Tetrahydrofuran	4.08	42	1460	4.176	ug/l #	48
51) 4-Methyl-2-Pentanone	8.25	43	4656	3.266	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.30	63	95	27.949	ug/l #	47
59) 2-Hexanone	9.49	43	5311	5.343	ug/l	96
74) N-amyl acetate	11.36	43	5744	1.793	ug/l #	91
95) Naphthalene	14.45	128	11338	1.592	ug/l #	95

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

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Quant Time: Jan 24 02:53:31 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: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

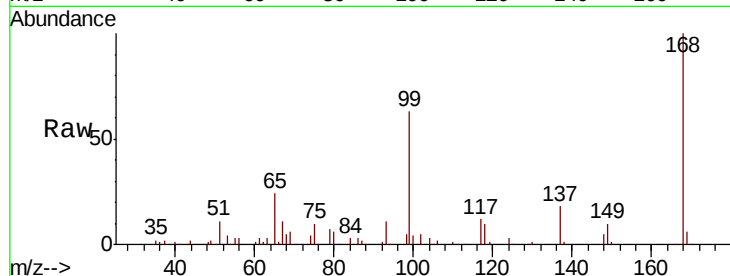
VF0123SBL01

Tgt Ion:168 Resp: 197134

Ion Ratio Lower Upper

168 100

99 62.7 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

60000

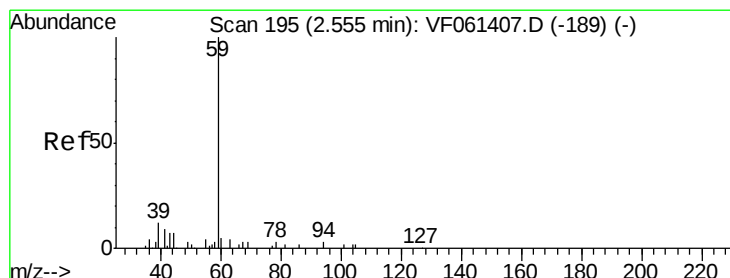
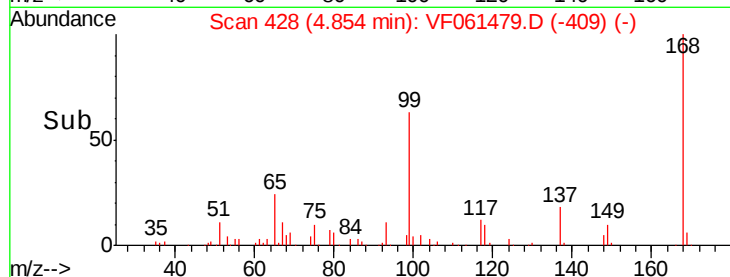
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.621 ug/l

RT: 2.56 min Scan# 195

Delta R.T. 0.00 min

Lab File: VF061479.D

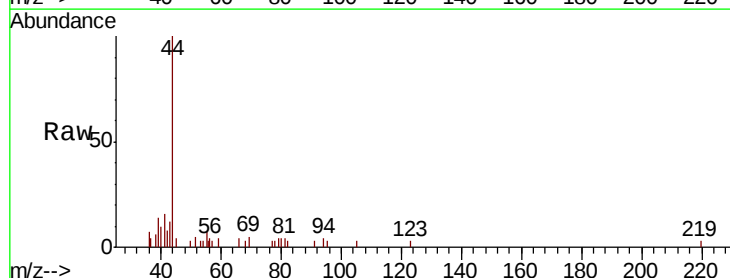
Acq: 23 Jan 2019 12:24

Tgt Ion: 59 Resp: 167

Ion Ratio Lower Upper

59 100

57 72.7 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

150

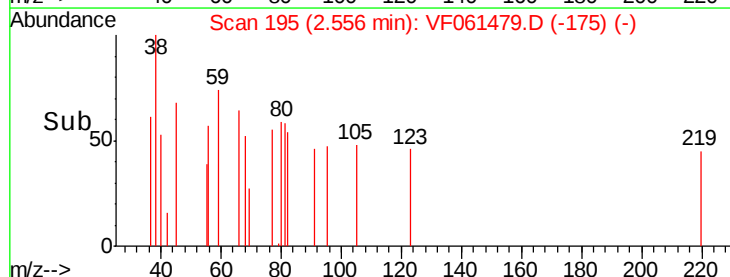
100

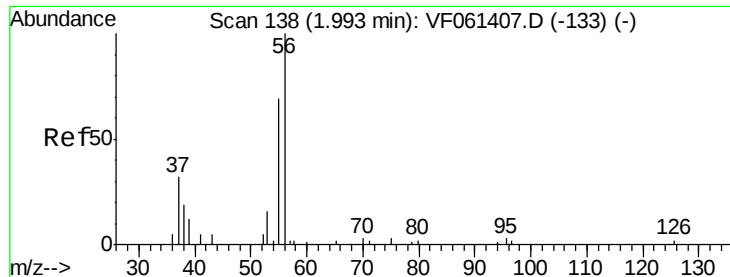
50

0

Time-->

2.52 2.54 2.56 2.58





#13

Acrolein

Concen: 11.882 ug/l

RT: 1.96 min Scan# 135

Delta R.T. -0.03 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

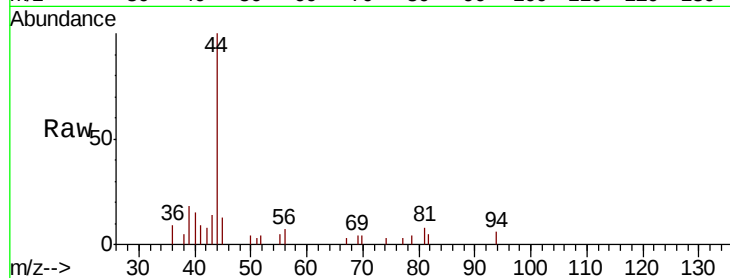
VF0123SBL01

Tgt Ion: 56 Resp: 143

Ion Ratio Lower Upper

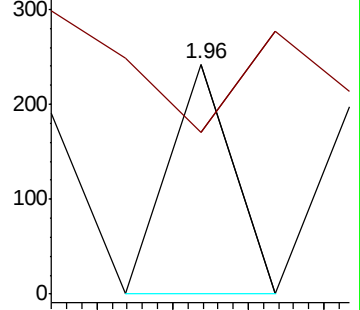
56 100

55 70.2 57.5 86.3

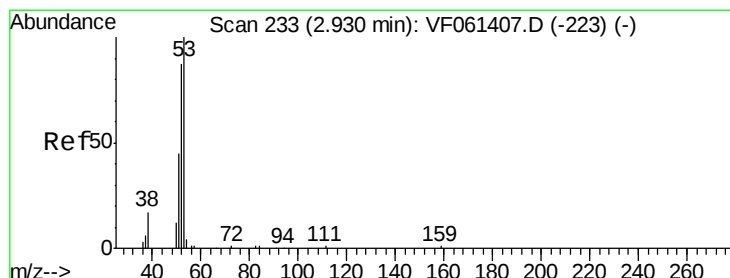
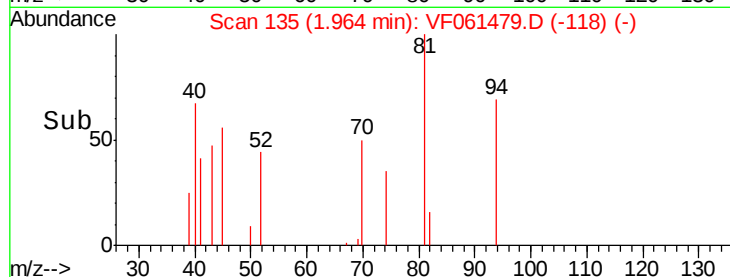


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#15

Acrylonitrile

Concen: 6.419 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

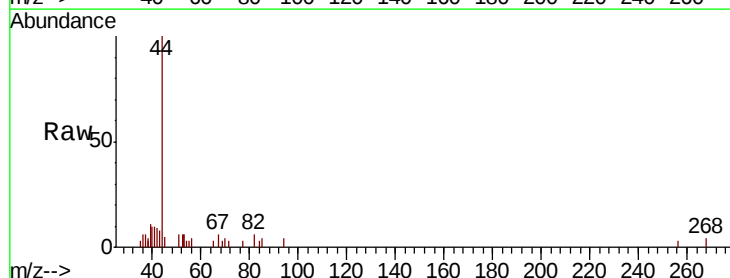
Tgt Ion: 53 Resp: 1694

Ion Ratio Lower Upper

53 100

52 46.6 69.6 104.4#

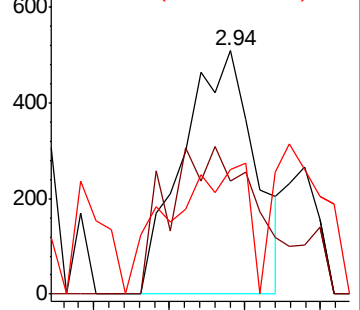
51 51.1 36.8 55.2



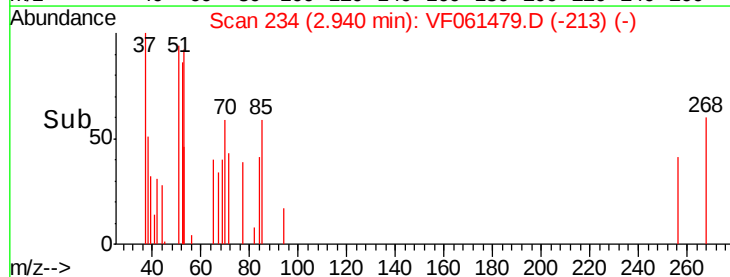
Abundance Ion 53.00 (52.70 to 53.70): VF0

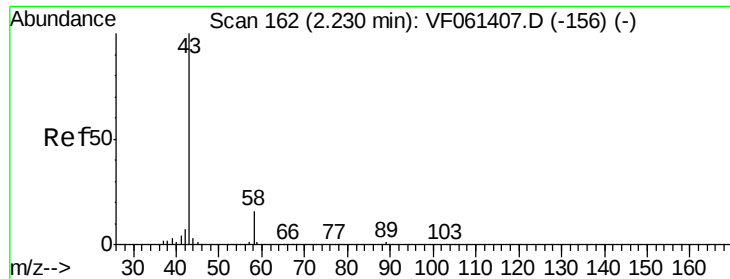
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->





#16

Acetone

Concen: 7.099 ug/l

RT: 2.23 min Scan# 162

Delta R.T. 0.00 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

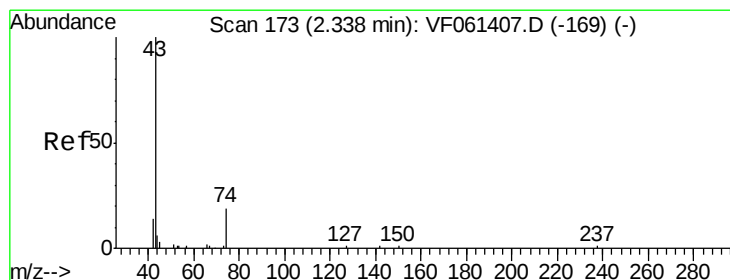
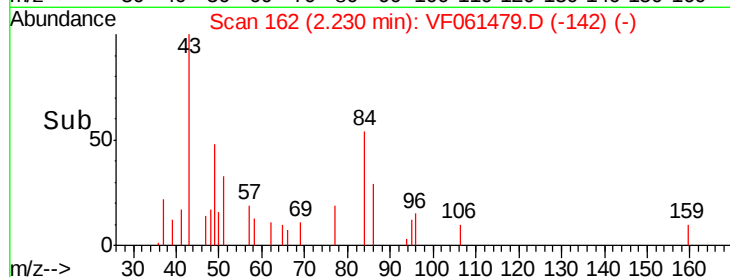
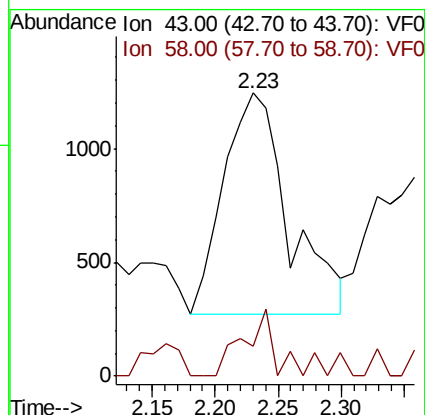
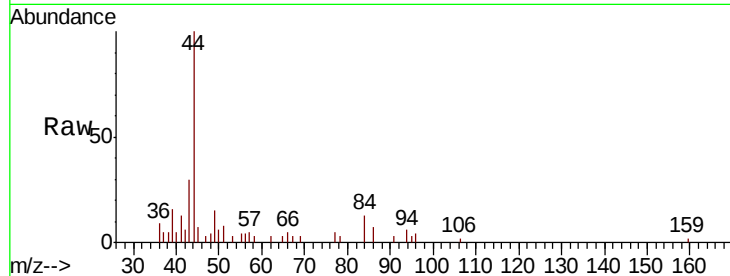
VF0123SBL01

Tgt Ion: 43 Resp: 3466

Ion Ratio Lower Upper

43 100

58 10.5 13.3 19.9#



#18

Methyl Acetate

Concen: 1.501 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.02 min

Lab File: VF061479.D

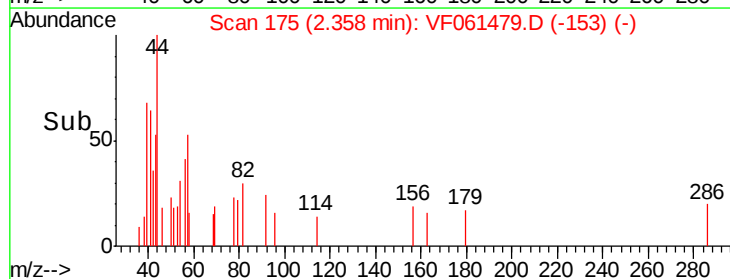
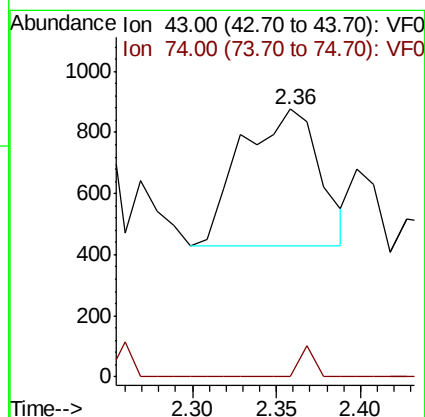
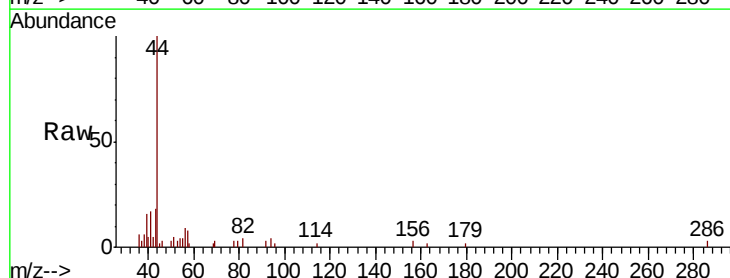
Acq: 23 Jan 2019 12:24

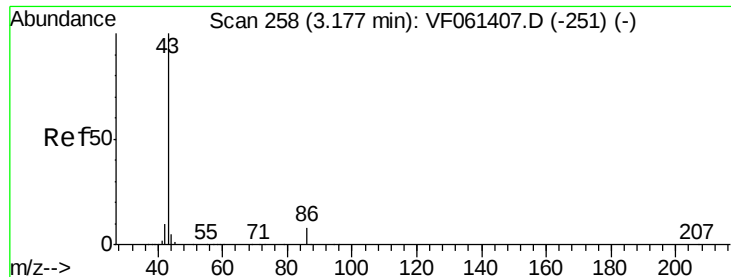
Tgt Ion: 43 Resp: 1453

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.521 ug/l

RT: 3.18 min Scan# 258

Delta R.T. 0.00 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

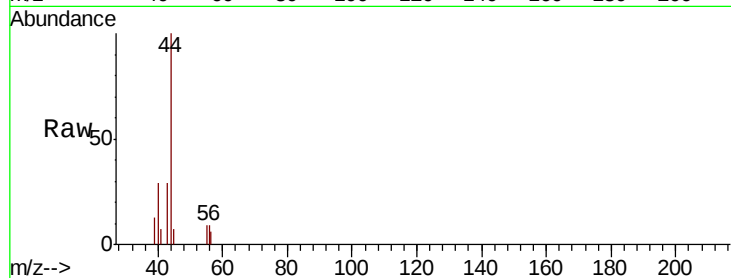
VF0123SBL01

Tgt Ion: 43 Resp: 911

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

3.18

600

500

400

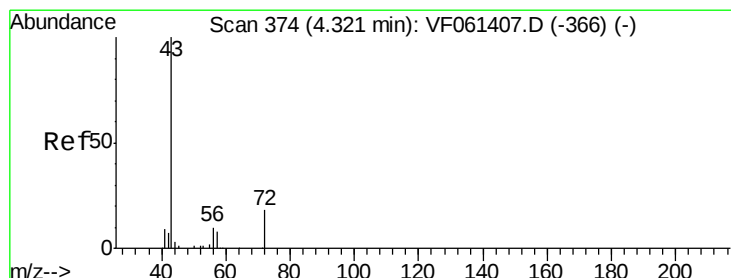
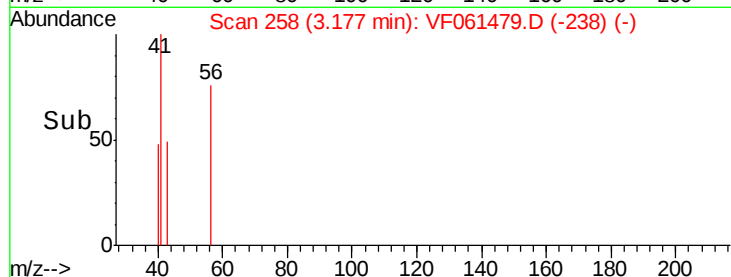
300

200

100

0

Time-->



#25

2-Butanone

Concen: 2.154 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.01 min

Lab File: VF061479.D

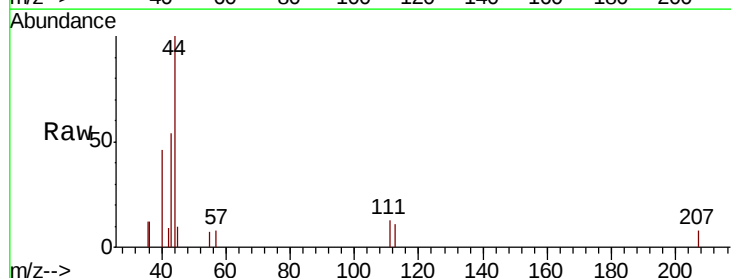
Acq: 23 Jan 2019 12:24

Tgt Ion: 43 Resp: 1749

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

4.31

800

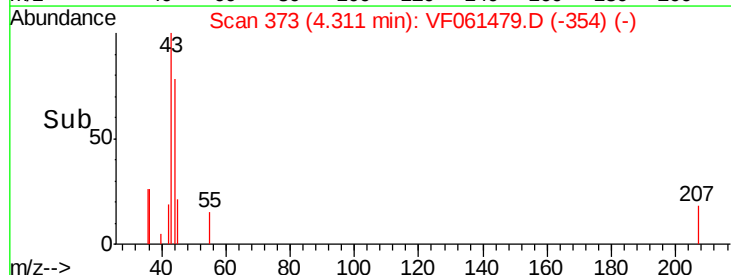
600

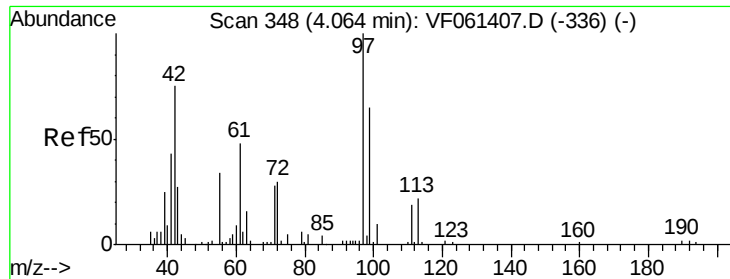
400

200

0

Time-->





#29

Tetrahydrofuran

Concen: 4.176 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.02 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBL01

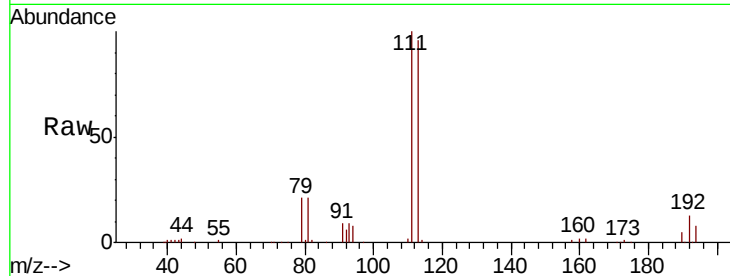
Tgt Ion: 42 Resp: 1460

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

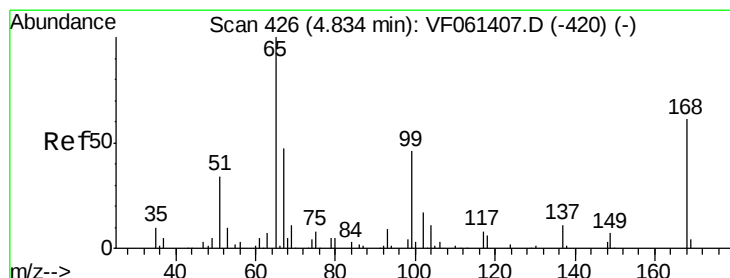
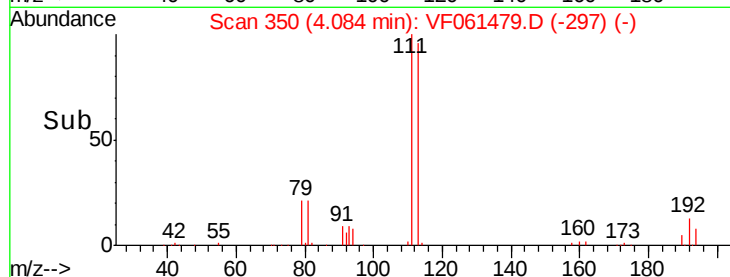
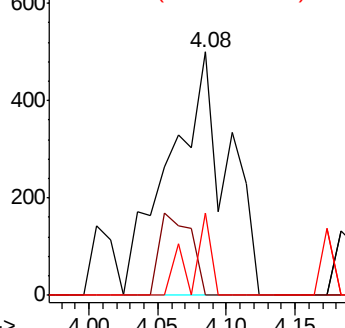
71 11.2 29.6 44.4#



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: 47.529 ug/l

RT: 4.83 min Scan# 426

Delta R.T. 0.00 min

Lab File: VF061479.D

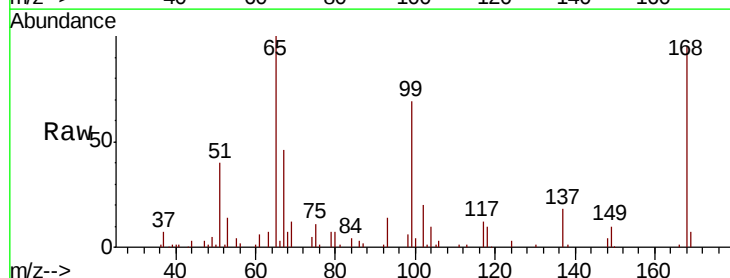
Acq: 23 Jan 2019 12:24

Tgt Ion: 65 Resp: 115680

Ion Ratio Lower Upper

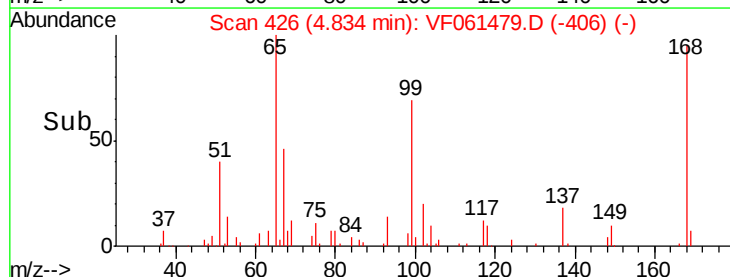
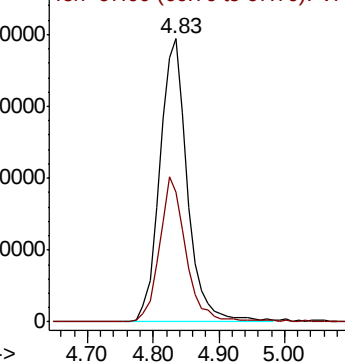
65 100

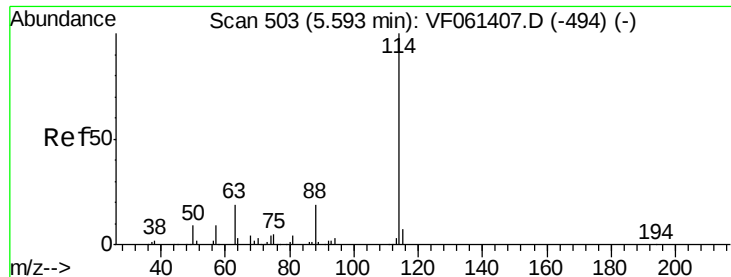
67 45.7 0.0 99.8



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: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBL01

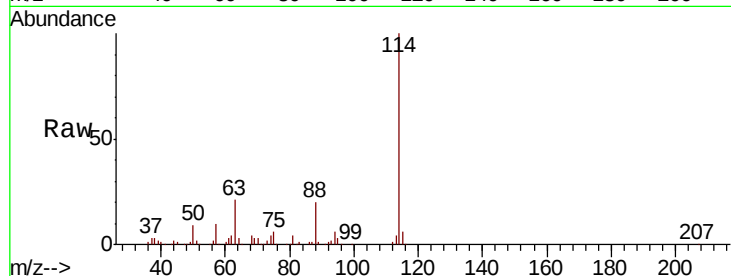
Tgt Ion:114 Resp: 333360

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.0

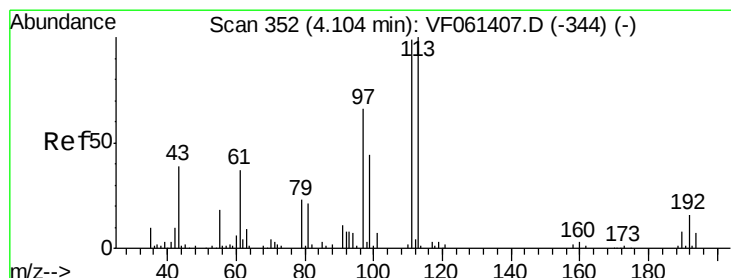
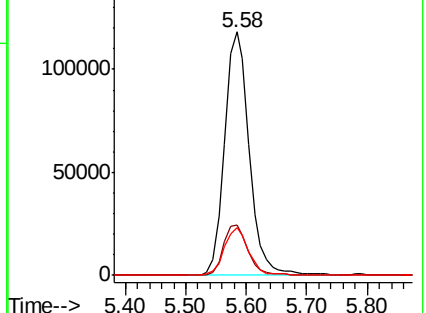
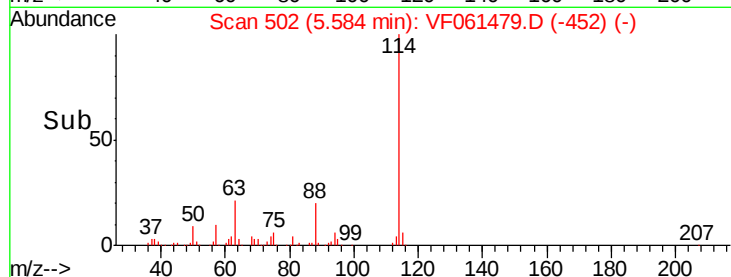
88 19.7 0.0 37.4



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: 52.486 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.01 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

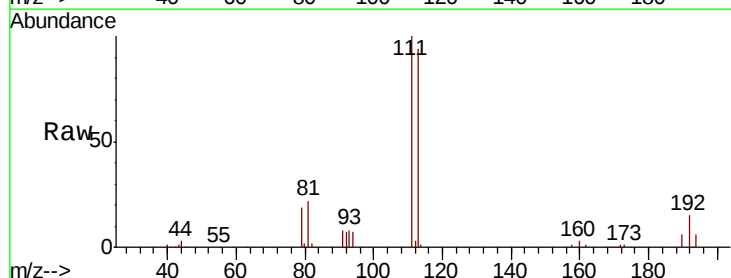
Tgt Ion:113 Resp: 138064

Ion Ratio Lower Upper

113 100

111 106.1 79.4 119.0

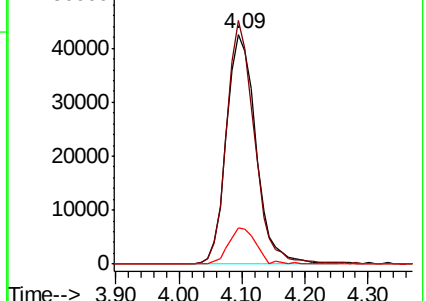
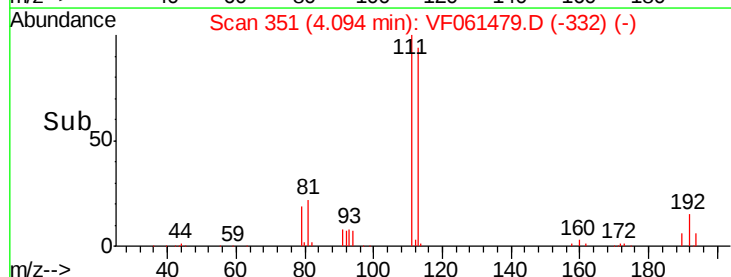
192 15.9 12.4 18.6

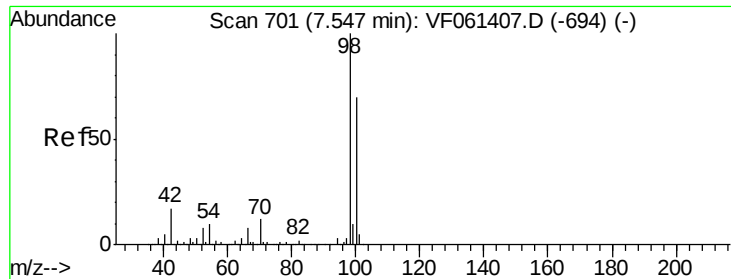


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 48.840 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.01 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

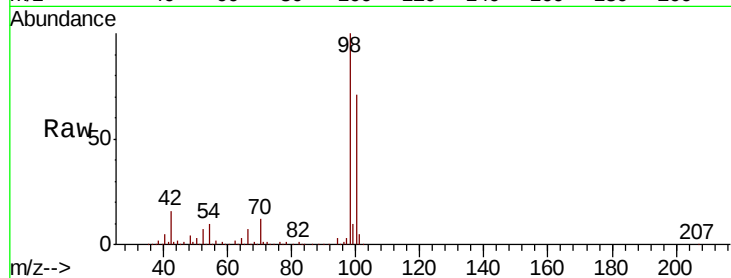
VF0123SBL01

Tgt Ion: 98 Resp: 351996

Ion Ratio Lower Upper

98 100

100 71.1 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

150000

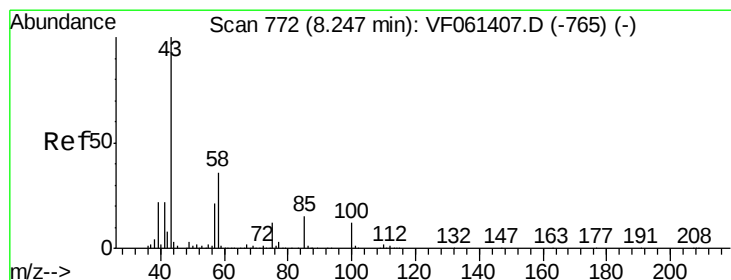
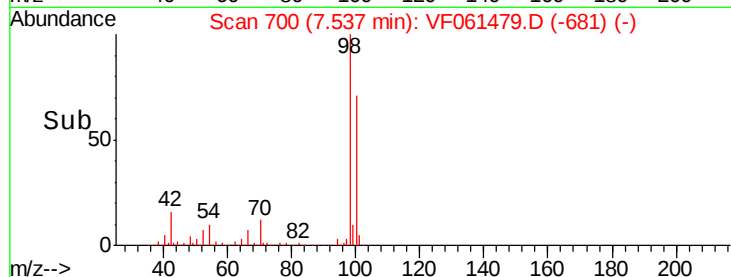
100000

50000

0

7.40 7.50 7.60 7.70

Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.266 ug/l

RT: 8.25 min Scan# 772

Delta R.T. 0.00 min

Lab File: VF061479.D

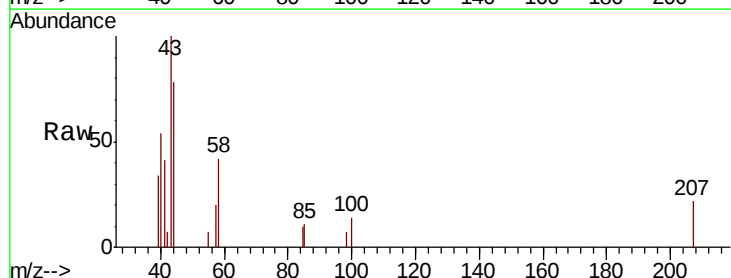
Acq: 23 Jan 2019 12:24

Tgt Ion: 43 Resp: 4656

Ion Ratio Lower Upper

43 100

58 41.8 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1500

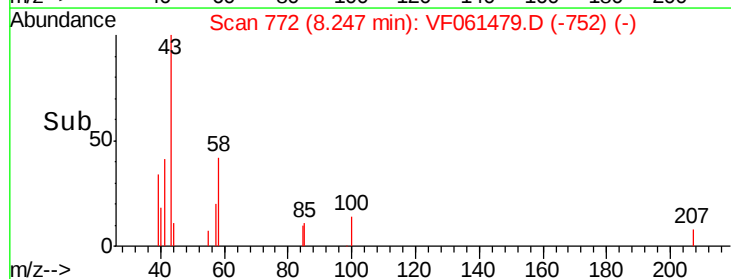
1000

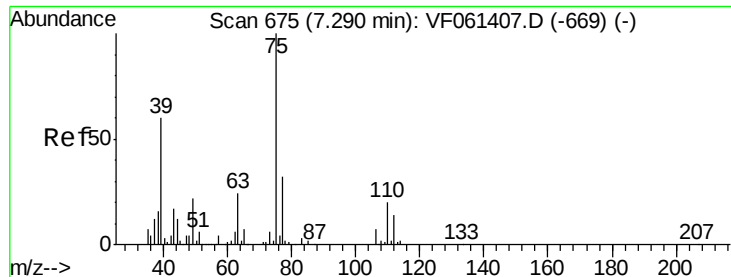
500

0

8.20 8.30 8.40

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 27.949 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

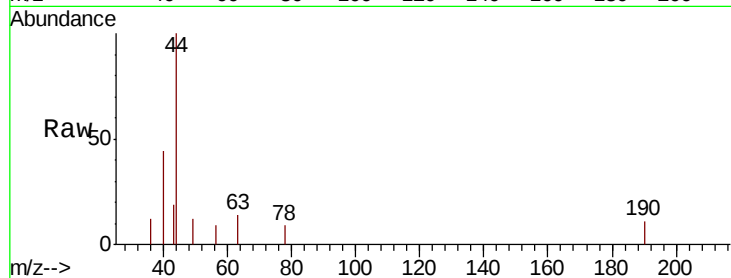
VF0123SBL01

Tgt Ion: 63 Resp: 95

Ion Ratio Lower Upper

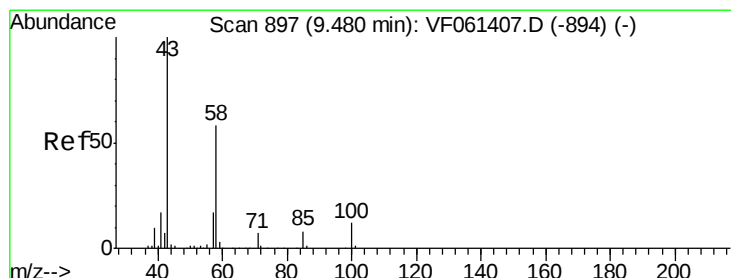
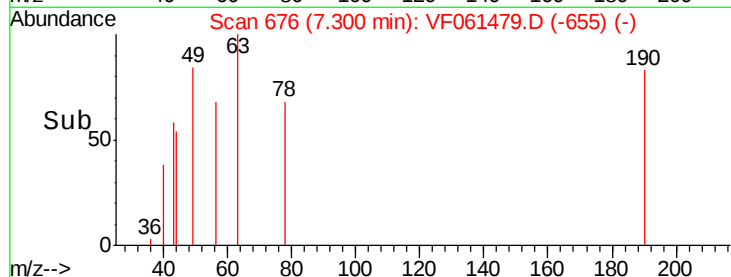
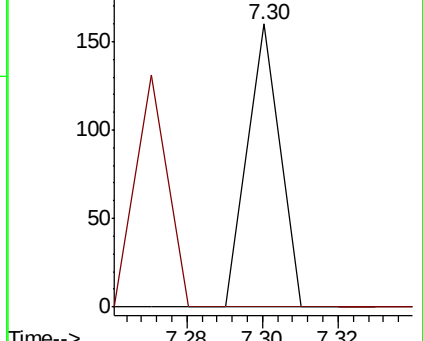
63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 5.343 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061479.D

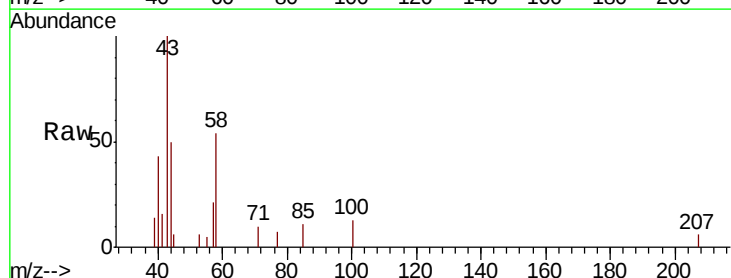
Acq: 23 Jan 2019 12:24

Tgt Ion: 43 Resp: 5311

Ion Ratio Lower Upper

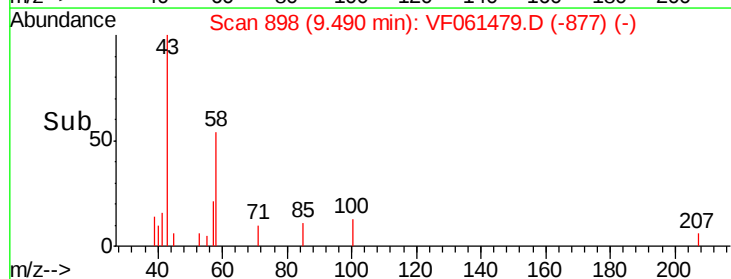
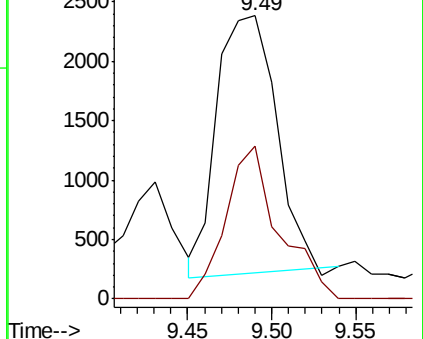
43 100

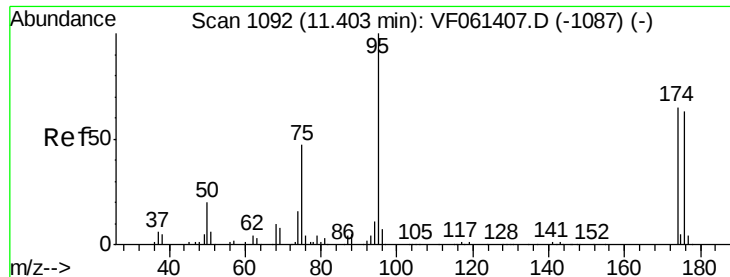
58 54.2 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 49.012 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. 0.00 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBL01

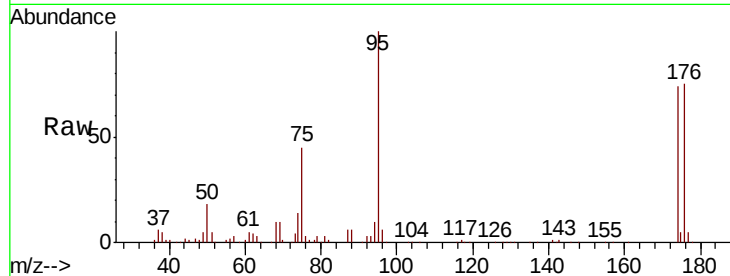
Tgt Ion: 95 Resp: 165041

Ion Ratio Lower Upper

95 100

174 73.6 0.0 130.4

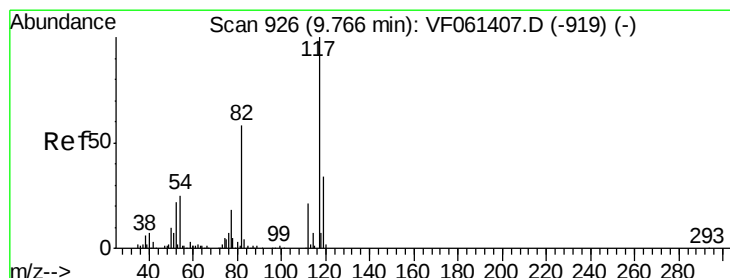
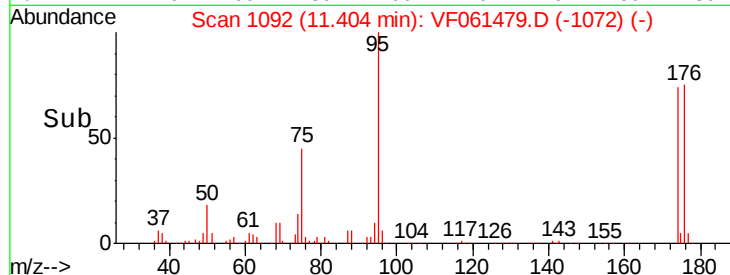
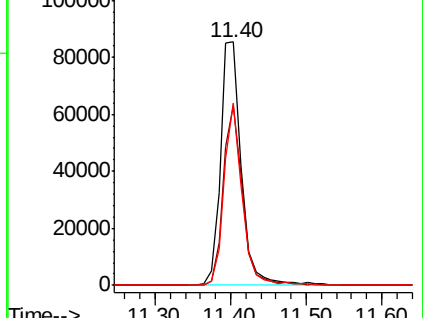
176 74.8 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 925

Delta R.T. -0.01 min

Lab File: VF061479.D

Acq: 23 Jan 2019 12:24

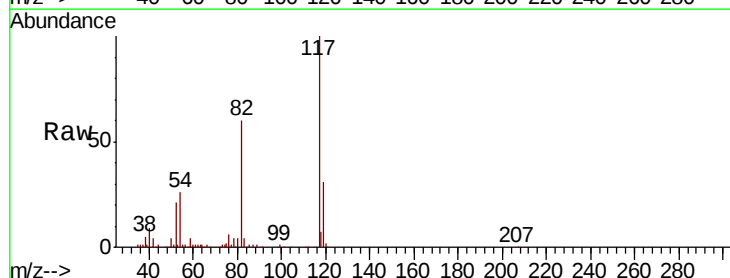
Tgt Ion: 117 Resp: 289885

Ion Ratio Lower Upper

117 100

82 59.9 46.4 69.6

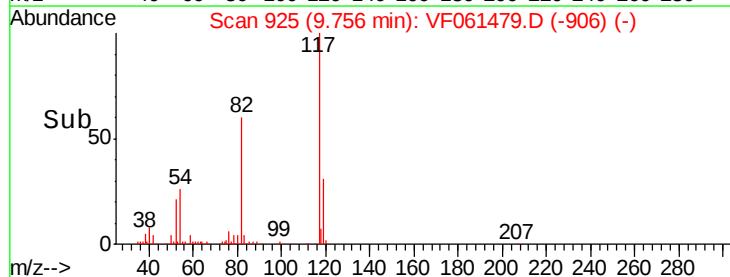
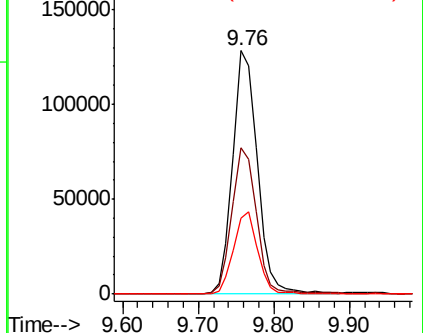
119 31.0 27.2 40.8

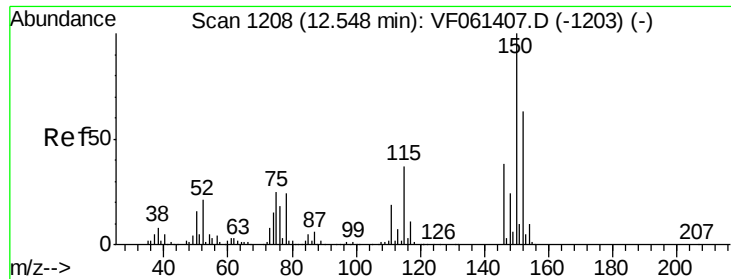


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



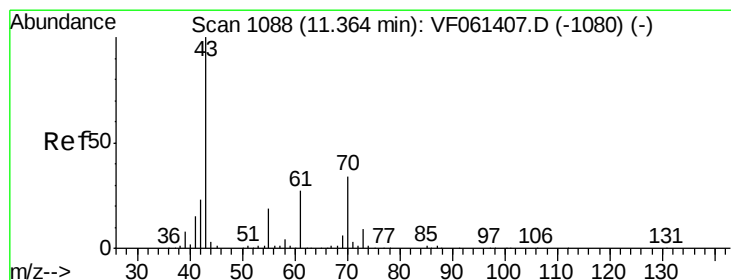
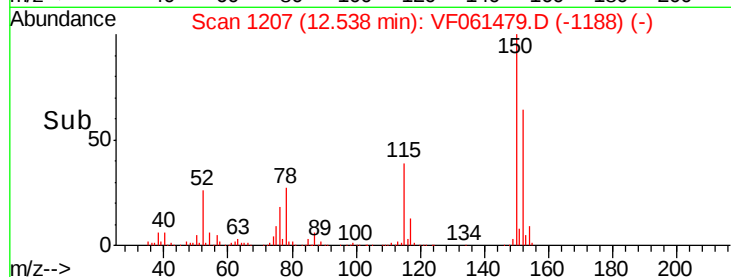
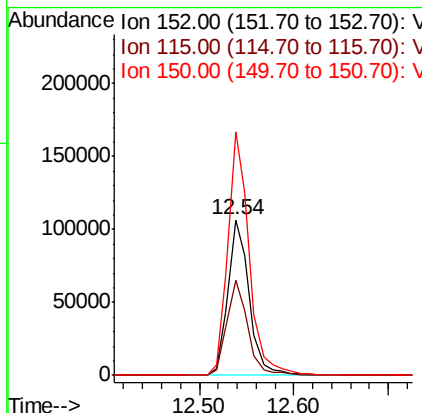
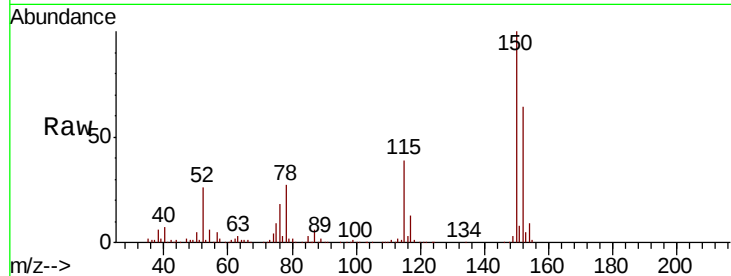


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.01 min
Lab File: VF061479.D
Acq: 23 Jan 2019 12:24

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBL01

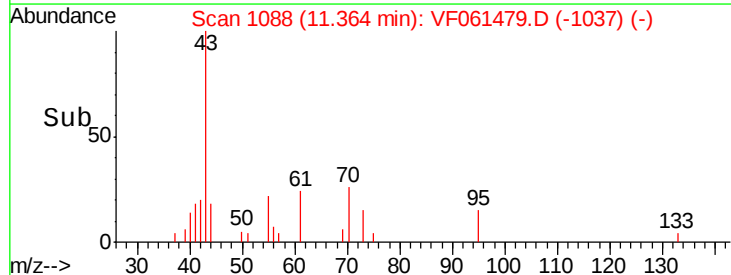
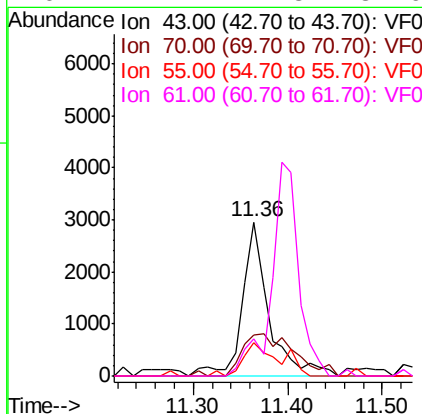
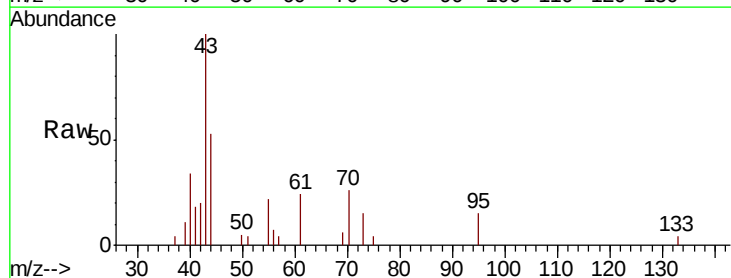
Tgt Ion:152 Resp: 166545
Ion Ratio Lower Upper
152 100
115 61.1 30.0 90.0
150 156.6 0.0 321.4

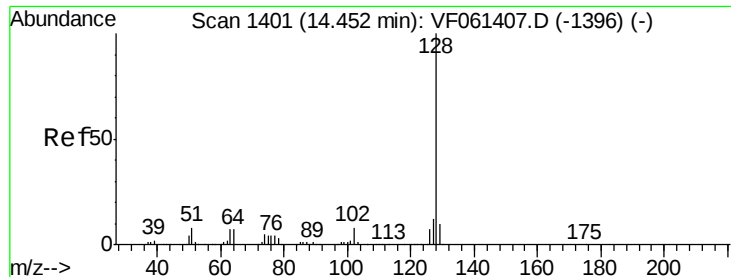


#74

N-ethyl acetate
Concen: 1.793 ug/l
RT: 11.36 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VF061479.D
Acq: 23 Jan 2019 12:24

Tgt Ion: 43 Resp: 5744
Ion Ratio Lower Upper
43 100
70 26.5 27.6 41.4#
55 21.7 15.4 23.2
61 24.4 21.8 32.6

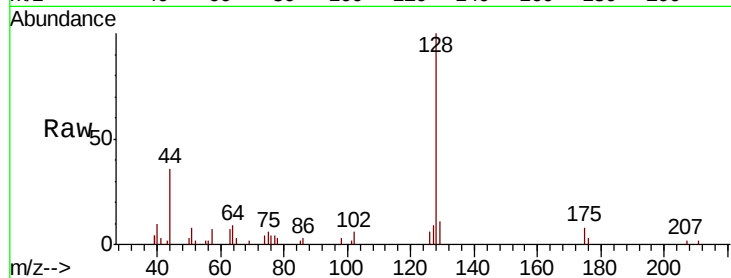




#95
Naphthalene
Concen: 1.592 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VF061479.D
Acq: 23 Jan 2019 12:24

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBL01

Tgt Ion:128 Resp: 11338
Ion Ratio Lower Upper
128 100
127 9.1 9.5 14.3#
129 11.5 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

