

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF111518\
 Data File : VF060751.D
 Acq On : 15 Nov 2018 17:19
 Operator : VA/AP
 Sample : J5767-15
 Misc : 6.22g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 16 04:37:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	77530	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	111628	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.77	117	101206	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	45532	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	23421	26.48	ug/l	-0.02
Spiked Amount			Recovery	=	52.96%	
35) Dibromofluoromethane	4.10	113	30590	36.46	ug/l	-0.03
Spiked Amount			Recovery	=	72.92%	
50) Toluene-d8	7.54	98	98067	45.19	ug/l	-0.03
Spiked Amount			Recovery	=	90.38%	
62) 4-Bromofluorobenzene	11.41	95	39498	38.88	ug/l	-0.01
Spiked Amount			Recovery	=	77.76%	

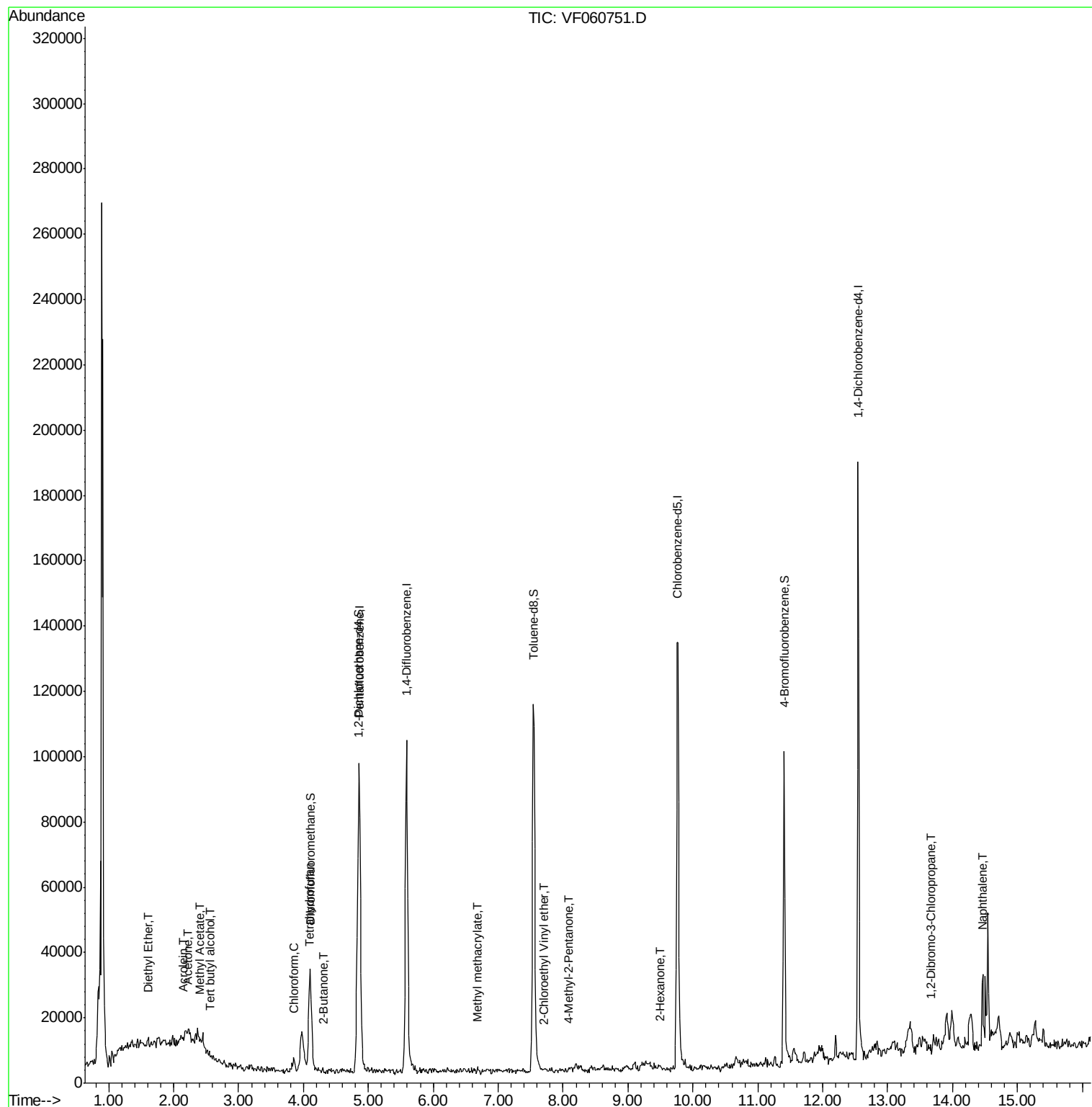
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.61	74	380	1.742	ug/l	54
11) Tert butyl alcohol	2.57	59	72	1.789	ug/l #	1
13) Acrolein	2.15	56	426	11.576	ug/l	99
16) Acetone	2.23	43	5315	28.119	ug/l	98
18) Methyl Acetate	2.41	43	4252	13.700	ug/l #	64
25) 2-Butanone	4.32	43	1095	3.522	ug/l #	56
29) Tetrahydrofuran	4.08	42	594	4.632	ug/l #	46
30) Chloroform	3.86	83	3668	1.765	ug/l #	73
41) Methacrylonitrile	4.75	41	194	Below Cal	#	56
48) Methyl methacrylate	6.69	41	457	1.082	ug/l #	72
51) 4-Methyl-2-Pentanone	8.09	43	971	2.104	ug/l	94
58) 2-Chloroethyl Vinyl ether	7.70	63	67	1.169	ug/l	100
59) 2-Hexanone	9.48	43	1759	5.423	ug/l	85
92) 1,2-Dibromo-3-Chloropropan	13.66	75	230	2.020	ug/l #	37
95) Naphthalene	14.46	128	2298	1.226	ug/l #	72

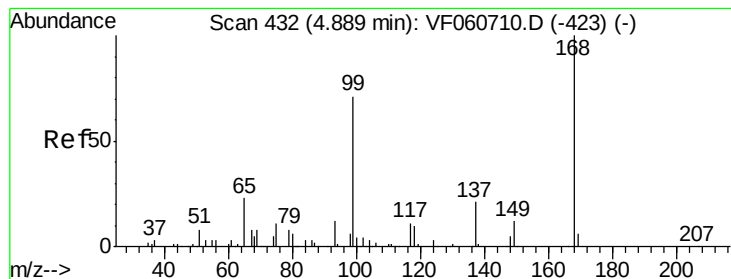
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 14 03:11:14 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

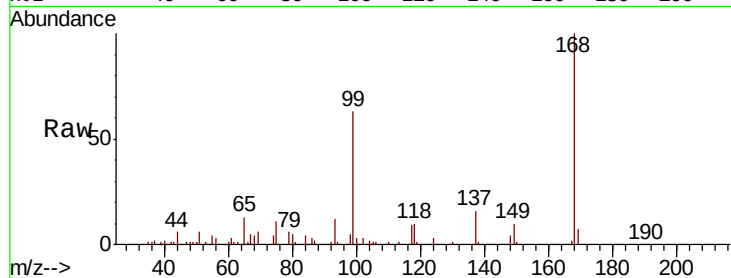
ClientSampleId :

Tot Ion:168 Resp: 77530

Ion Ratio Lower Upper

168 100

99 62.5 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

30000

25000

20000

15000

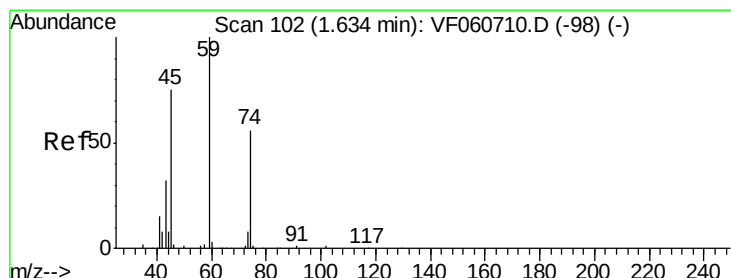
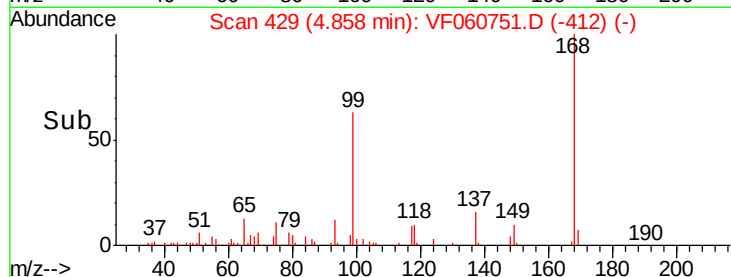
10000

5000

0

Time-->

4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 1.742 ug/l

RT: 1.61 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF060751.D

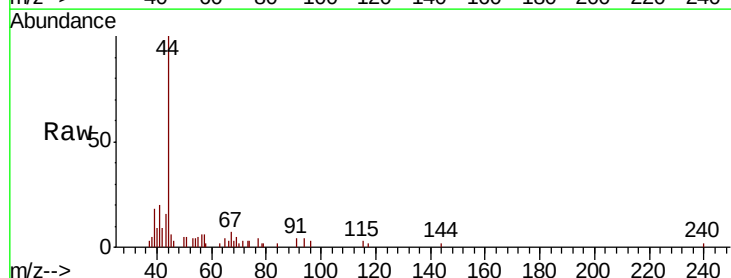
Acq: 15 Nov 2018 17:19

Tgt Ion: 74 Resp: 380

Ion Ratio Lower Upper

74 100

45 190.1 67.7 203.1



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

600

500

400

300

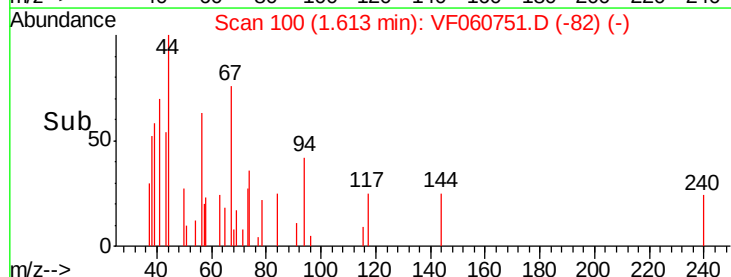
200

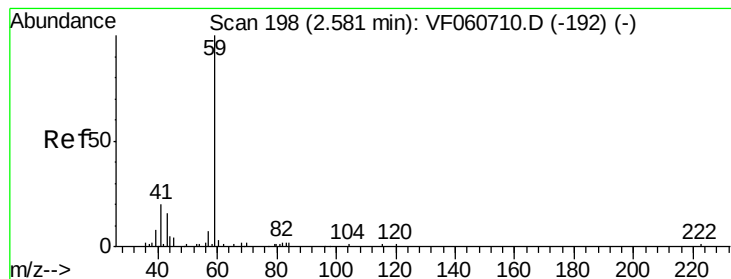
100

0

Time-->

1.55 1.60 1.65





#11

Tert butyl alcohol

Concen: 1.789 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

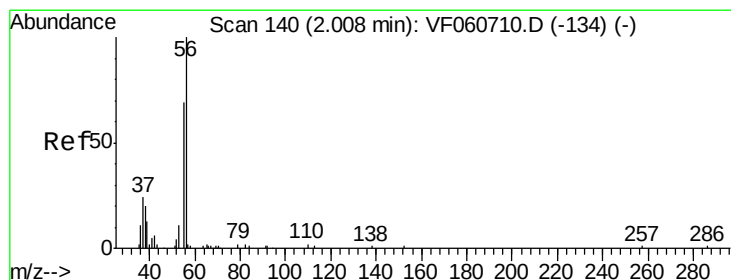
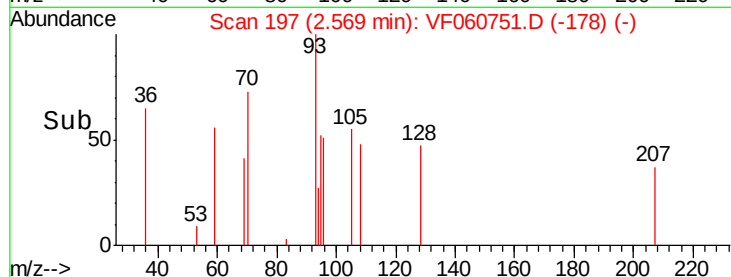
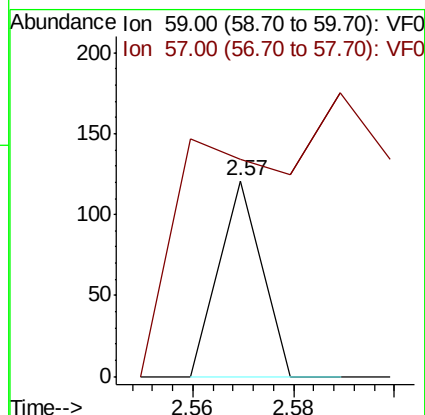
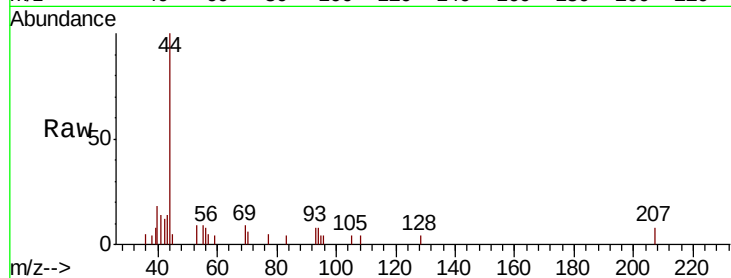
ClientSampleId :

Tot Ion: 59 Resp: 72

Ion Ratio Lower Upper

59 100

57 110.7 10.5 15.7#



#13

Acrolein

Concen: 11.576 ug/l

RT: 2.15 min Scan# 154

Delta R.T. 0.14 min

Lab File: VF060751.D

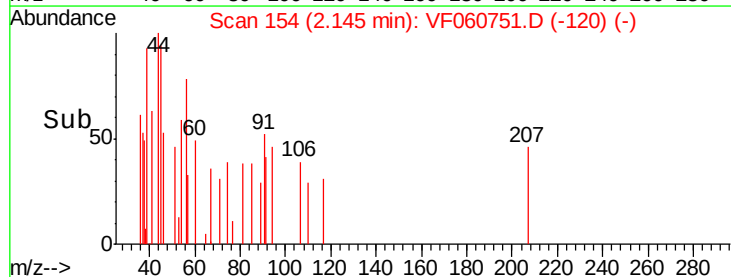
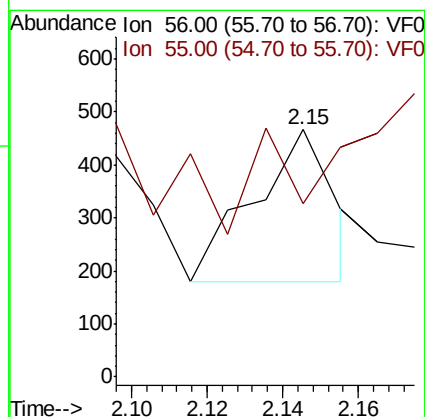
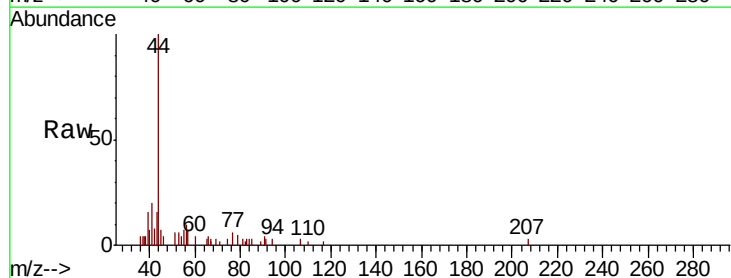
Acq: 15 Nov 2018 17:19

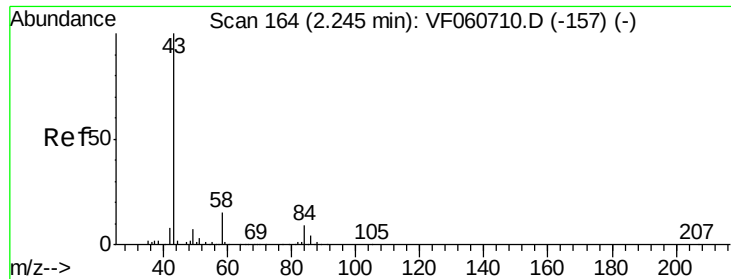
Tgt Ion: 56 Resp: 426

Ion Ratio Lower Upper

56 100

55 69.8 56.6 85.0

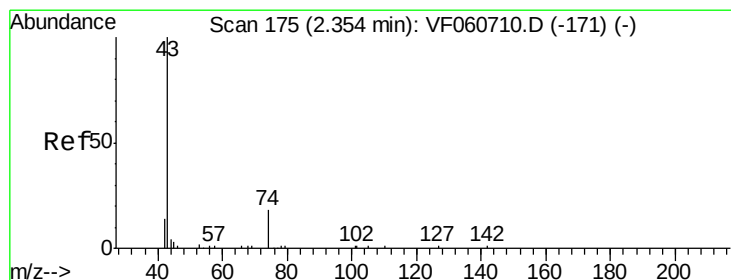
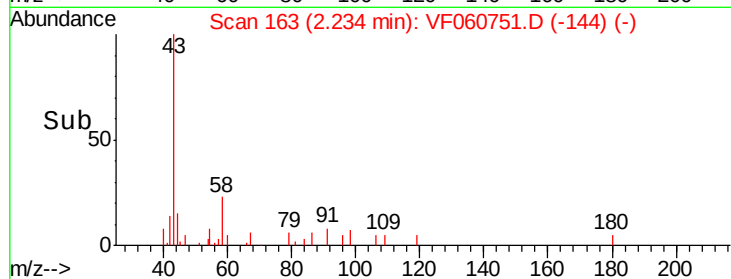
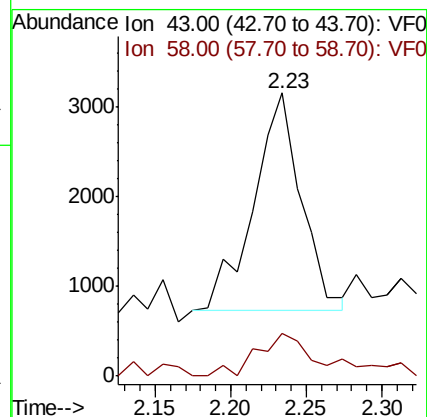
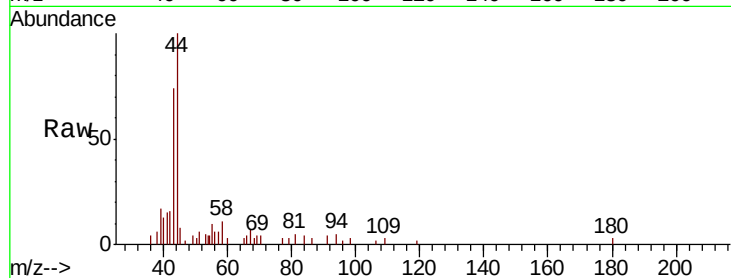




#16
Acetone
Concen: 28.119 ug/l
RT: 2.23 min Scan# 163
Delta R.T. -0.01 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

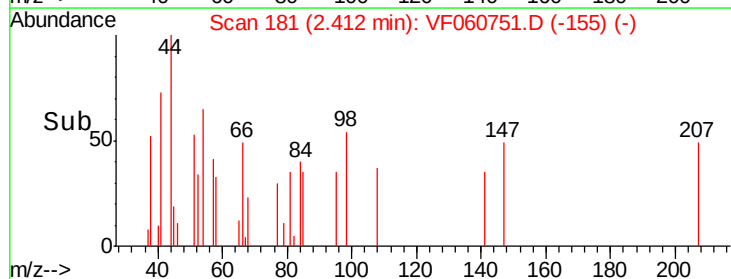
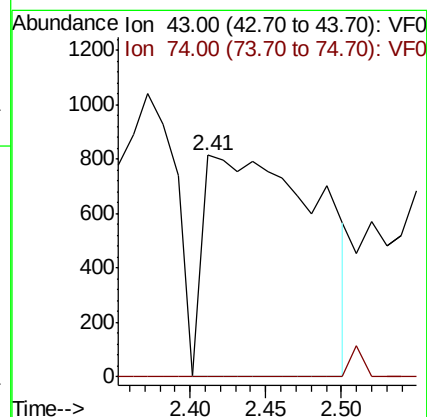
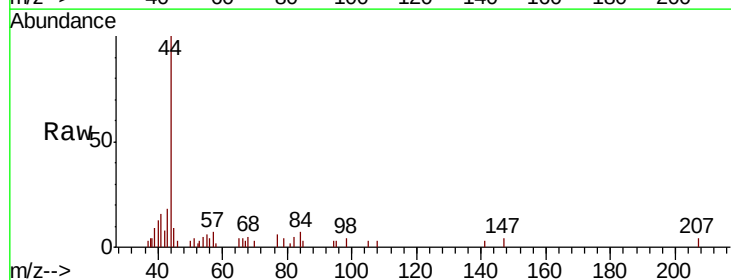
Instrument :
MSVOA_F
ClientSampleId :

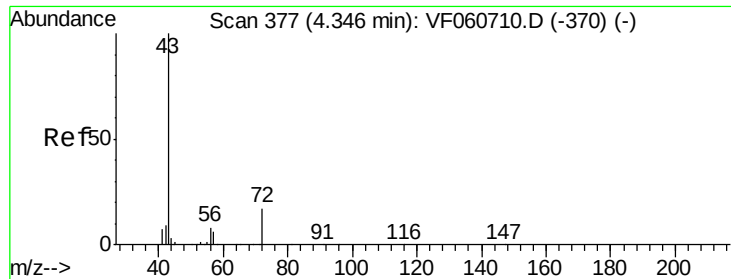
Tot Ion: 43 Resp: 5315
Ion Ratio Lower Upper
43 100
58 15.3 11.6 17.4



#18
Methyl Acetate
Concen: 13.700 ug/l
RT: 2.41 min Scan# 181
Delta R.T. 0.06 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

Tgt Ion: 43 Resp: 4252
Ion Ratio Lower Upper
43 100
74 0.0 11.8 17.8#

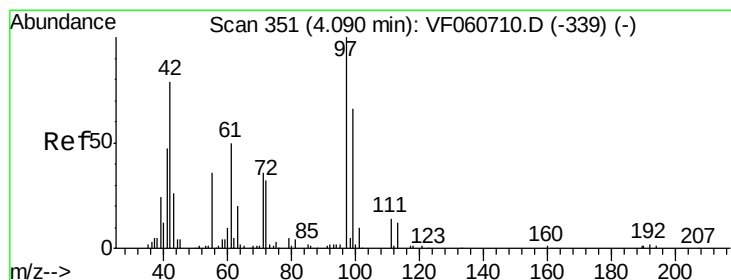
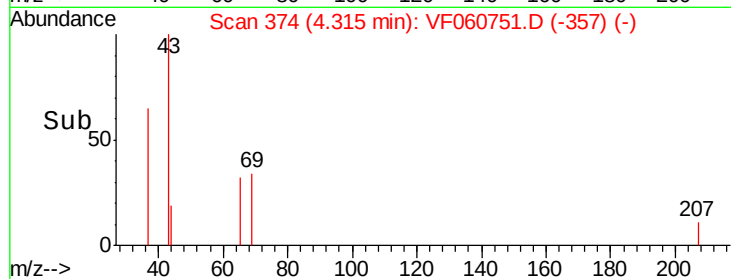
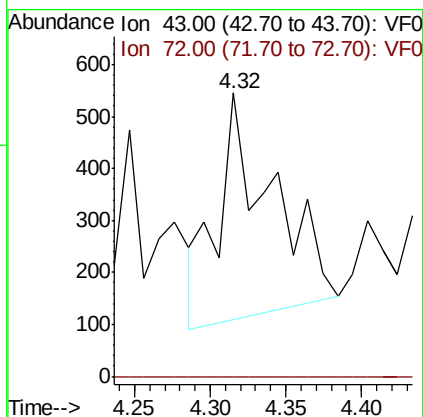
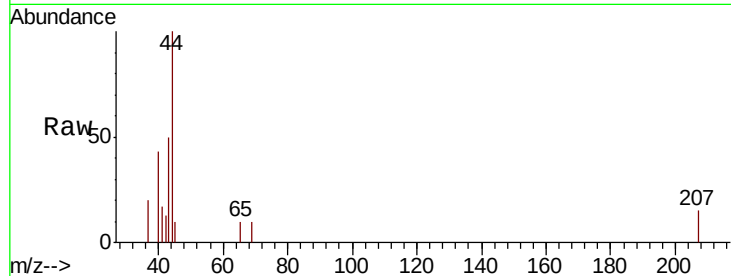




#25
2-Butanone
Concen: 3.522 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.03 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

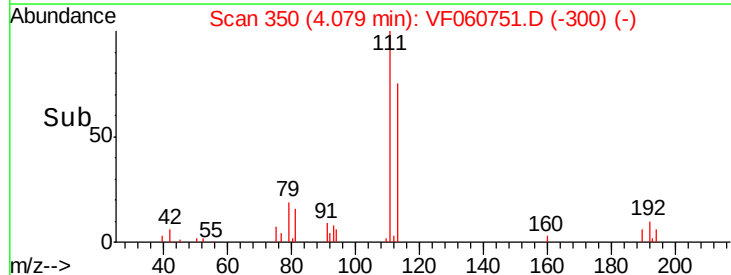
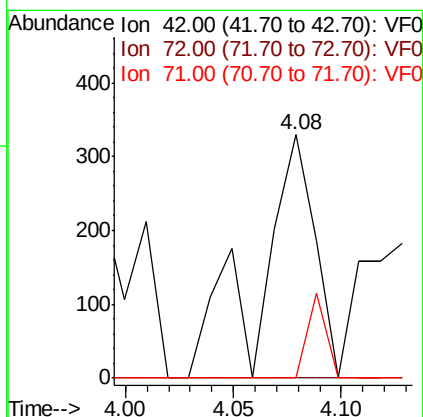
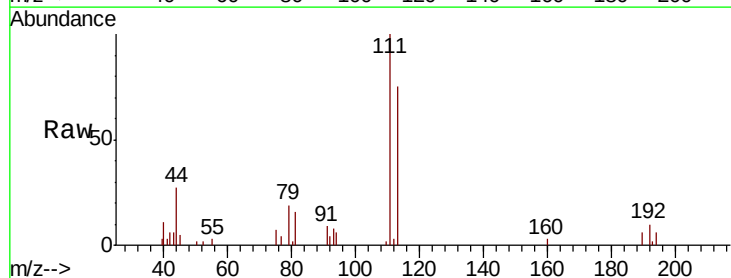
Instrument :
MSVOA_F
ClientSampled :

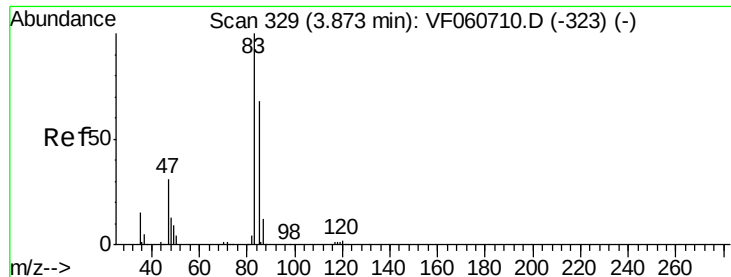
Tot Ion: 43 Resp: 1095
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#



#29
Tetrahydrofuran
Concen: 4.632 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

Tgt Ion: 42 Resp: 594
Ion Ratio Lower Upper
42 100
72 0.0 30.3 45.5#
71 11.4 32.2 48.2#





#30

Chloroform

Concen: 1.765 ug/l

RT: 3.86 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

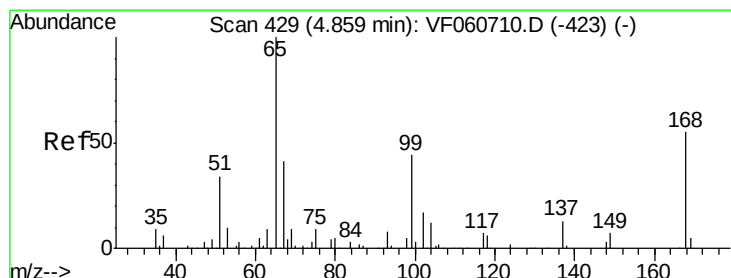
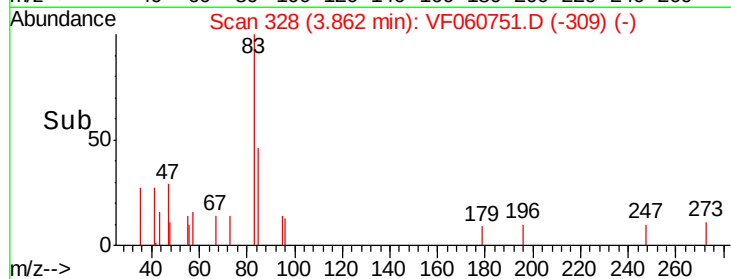
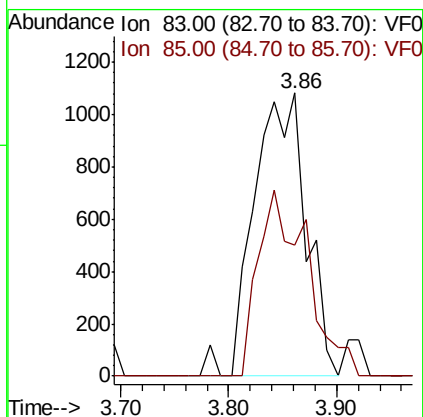
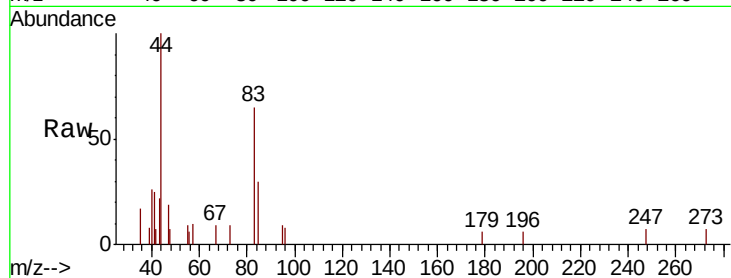
ClientSampled :

Tot Ion: 83 Resp: 3668

Ion Ratio Lower Upper

83 100

85 46.3 54.6 82.0#



#33

1,2-Dichloroethane-d4

Concen: 26.485 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.02 min

Lab File: VF060751.D

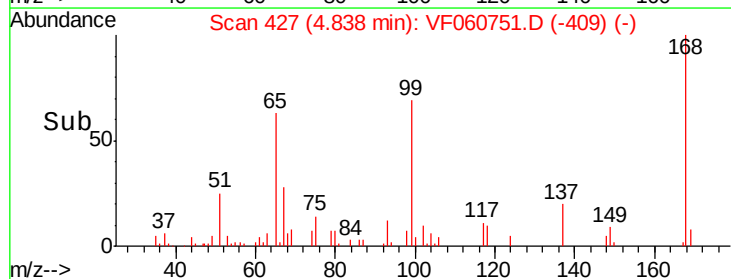
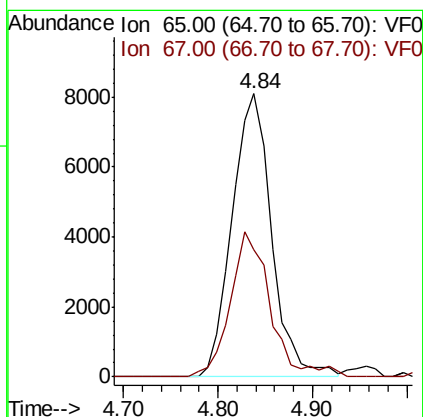
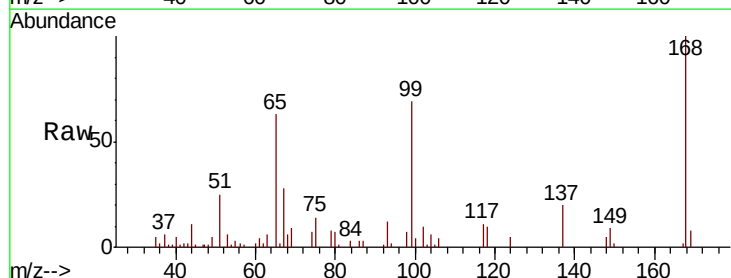
Acq: 15 Nov 2018 17:19

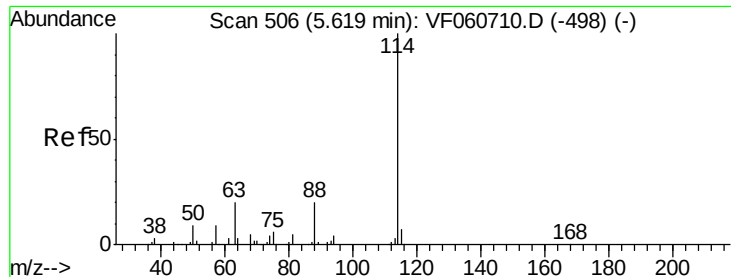
Tgt Ion: 65 Resp: 23421

Ion Ratio Lower Upper

65 100

67 44.8 0.0 90.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.03 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

ClientSampleId :

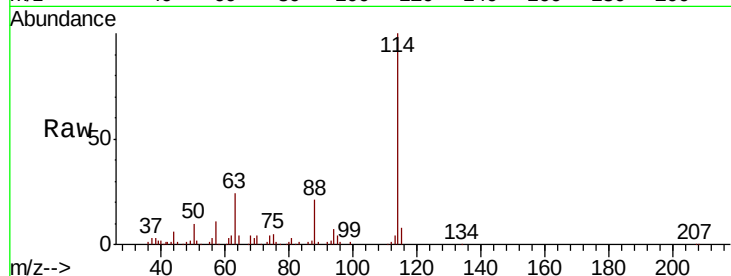
Tot Ion:114 Resp: 111628

Ion Ratio Lower Upper

114 100

63 23.7 0.0 40.8

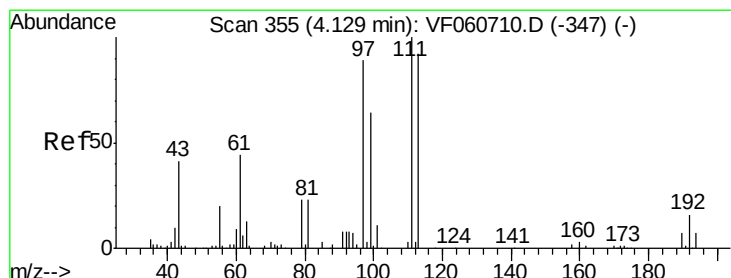
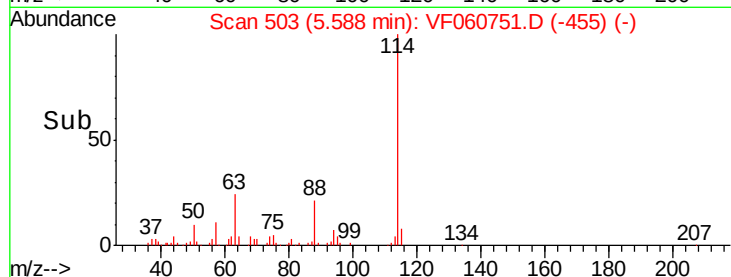
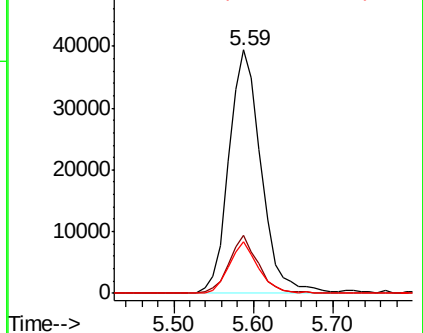
88 21.5 0.0 39.6



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: 36.456 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.03 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

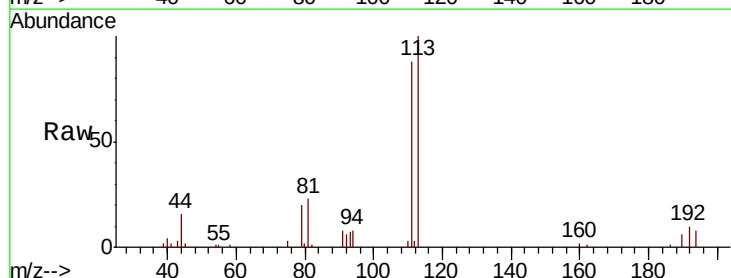
Tgt Ion:113 Resp: 30590

Ion Ratio Lower Upper

113 100

111 90.1 87.1 130.7

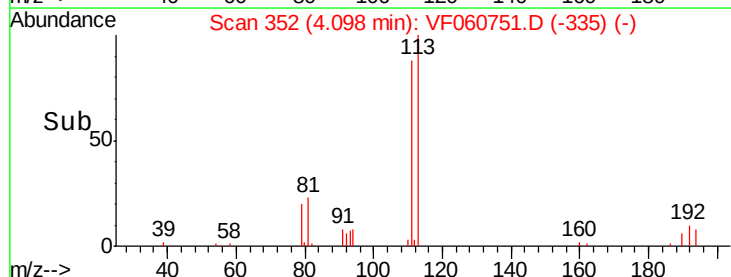
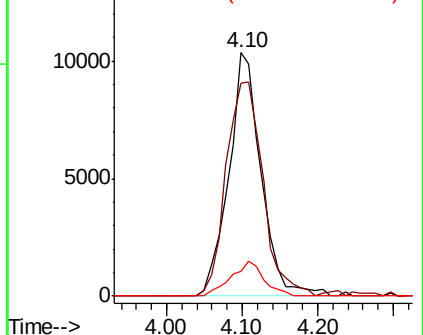
192 10.2 13.8 20.6#

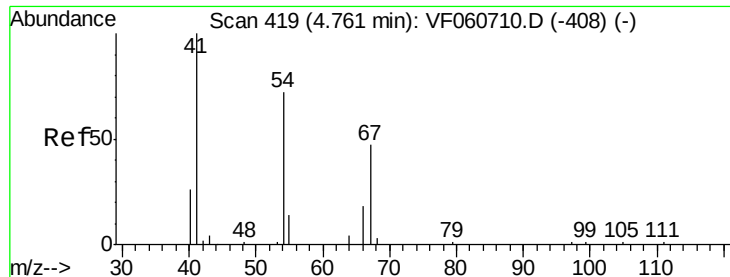


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

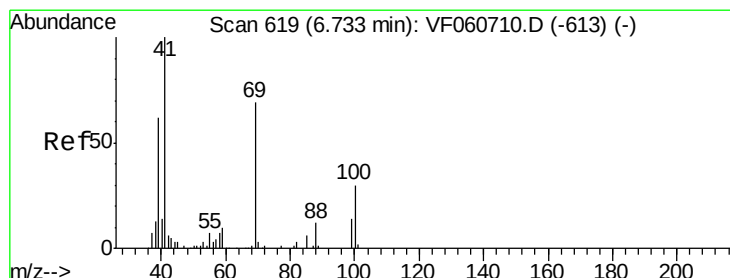
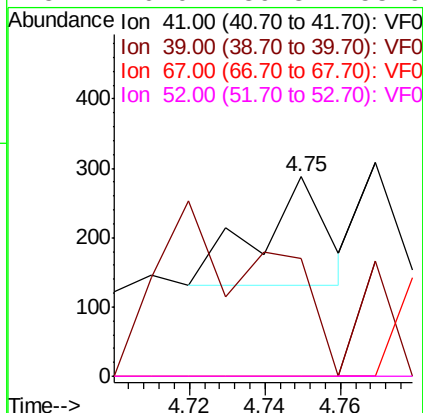
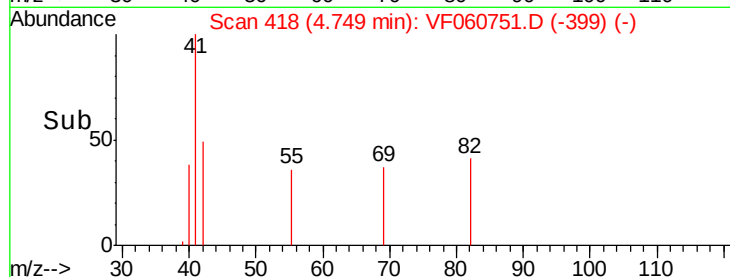
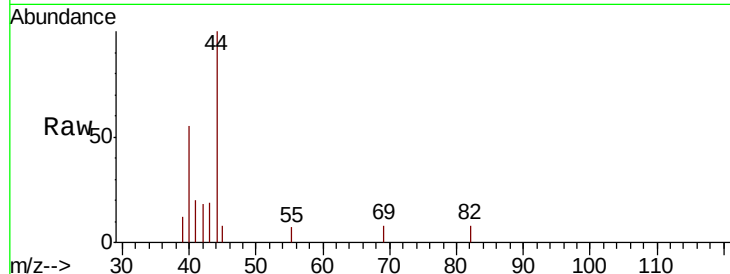




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

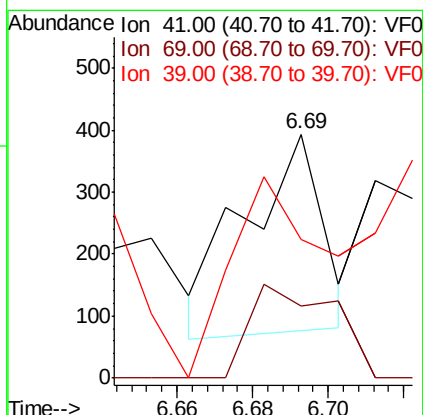
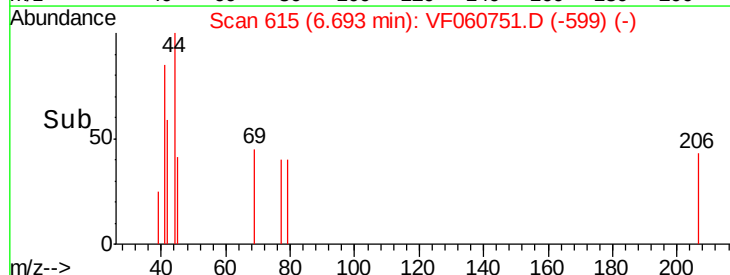
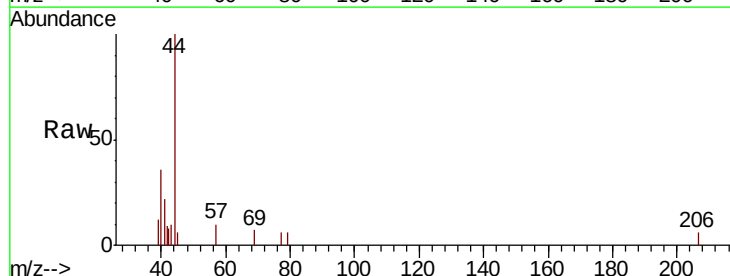
Instrument :
MSVOA_F
ClientSampled :

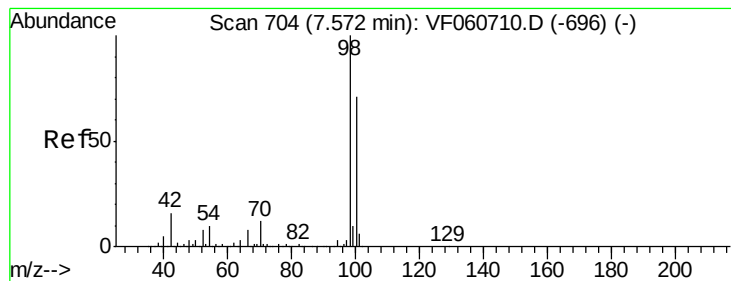
Tot Ion: 41 Resp: 194
Ion Ratio Lower Upper
41 100
39 59.4 47.1 70.7
67 0.0 37.1 55.7#
52 0.0 39.3 58.9#



#48
Methyl methacrylate
Concen: 1.082 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.04 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

Tgt Ion: 41 Resp: 457
Ion Ratio Lower Upper
41 100
69 29.8 54.9 82.3#
39 56.7 49.6 74.4





#50

Toluene-d8

Concen: 45.191 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.03 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

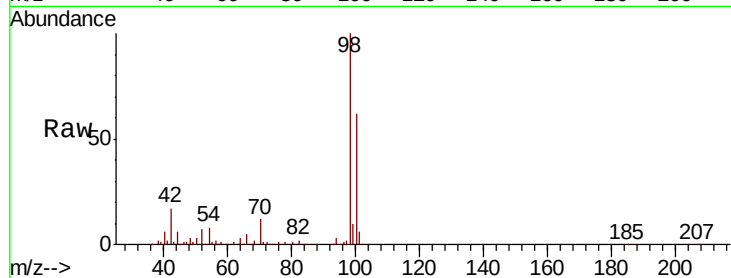
ClientSampleId :

Tot Ion: 98 Resp: 98067

Ion Ratio Lower Upper

98 100

100 62.3 56.5 84.7

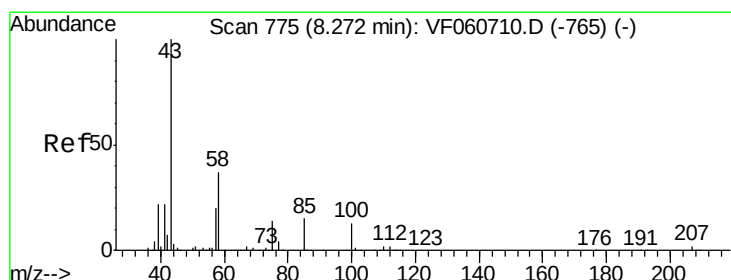
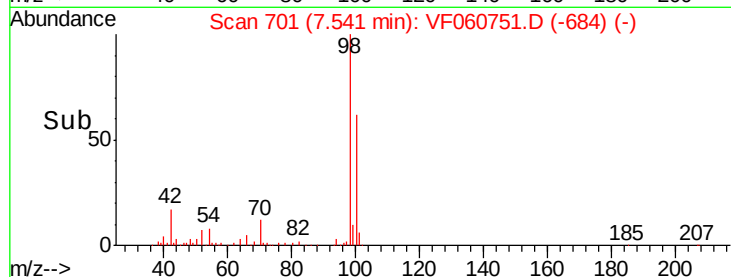


Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.54

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.104 ug/l

RT: 8.09 min Scan# 757

Delta R.T. -0.18 min

Lab File: VF060751.D

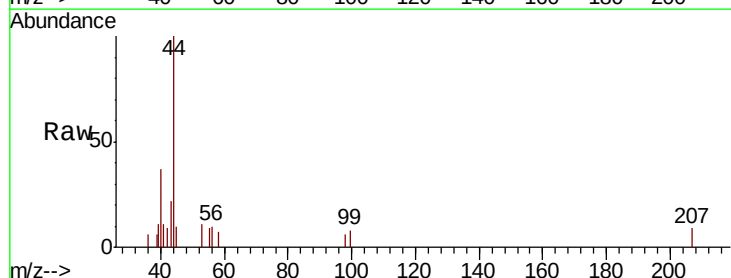
Acq: 15 Nov 2018 17:19

Tgt Ion: 43 Resp: 971

Ion Ratio Lower Upper

43 100

58 32.7 29.2 43.8

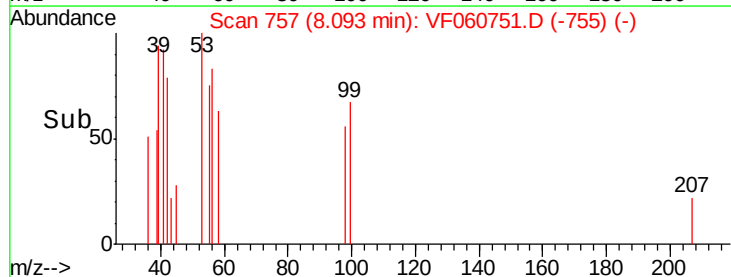


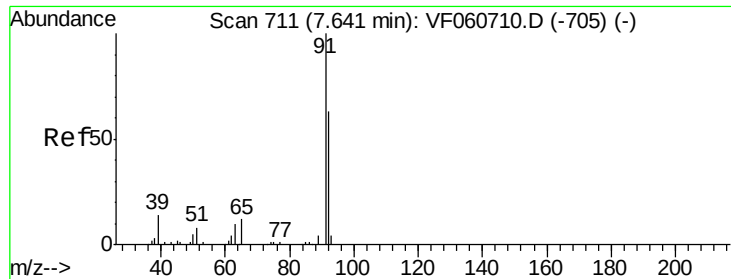
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.09

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 1.169 ug/l

RT: 7.70 min Scan# 717

Delta R.T. 0.06 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

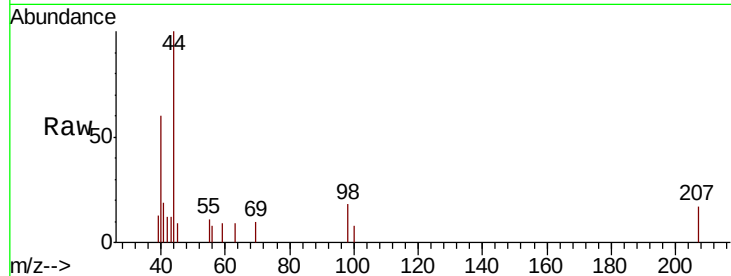
ClientSampled :

Tot Ion: 63 Resp: 67

Ion Ratio Lower Upper

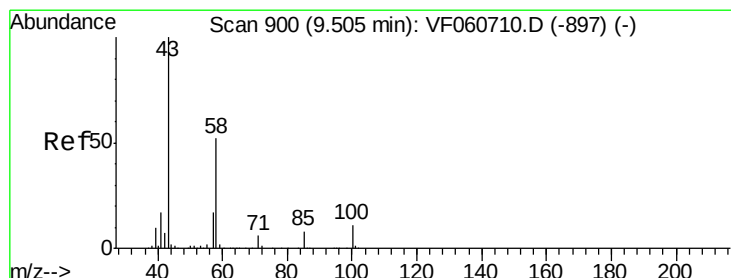
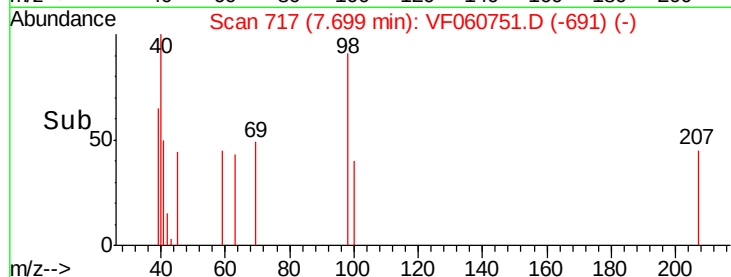
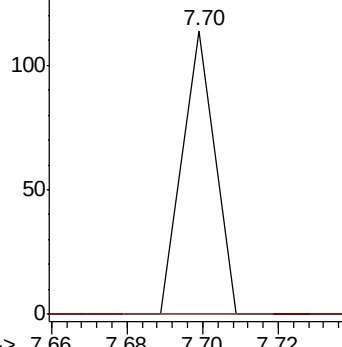
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 5.423 ug/l

RT: 9.48 min Scan# 898

Delta R.T. -0.02 min

Lab File: VF060751.D

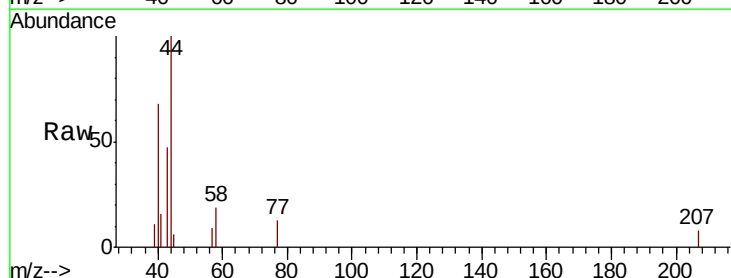
Acq: 15 Nov 2018 17:19

Tgt Ion: 43 Resp: 1759

Ion Ratio Lower Upper

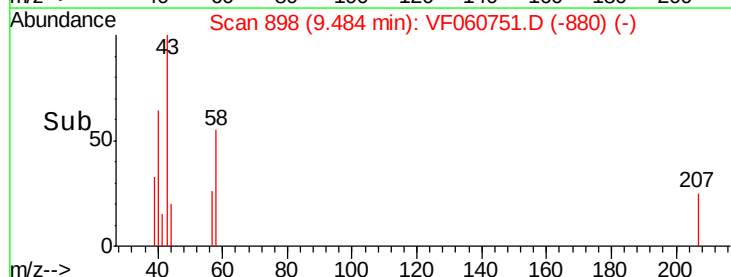
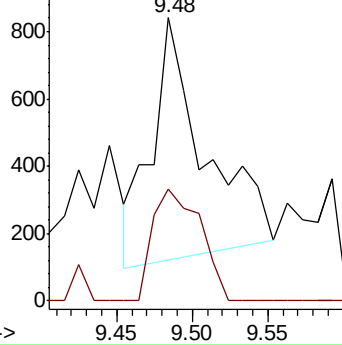
43 100

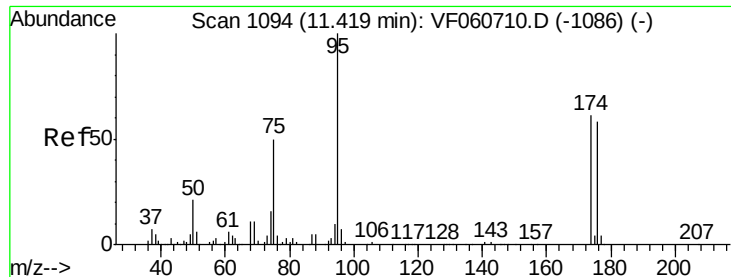
58 39.4 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

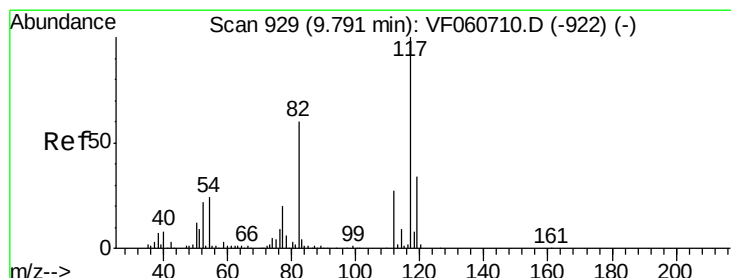
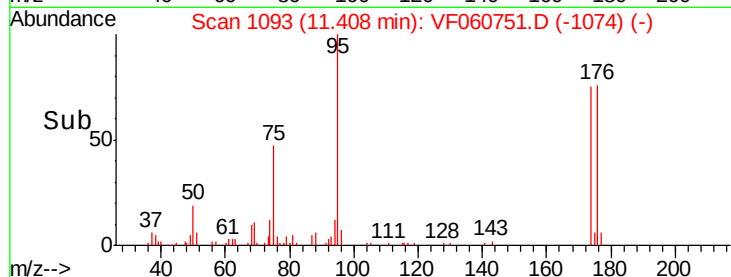
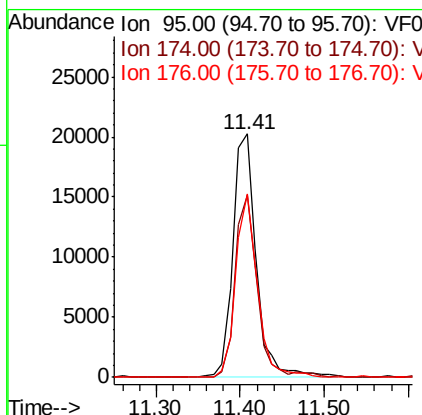
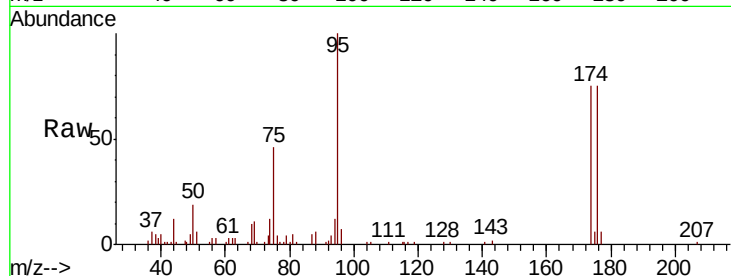




#62
4-Bromofluorobenzene
Concen: 38.878 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

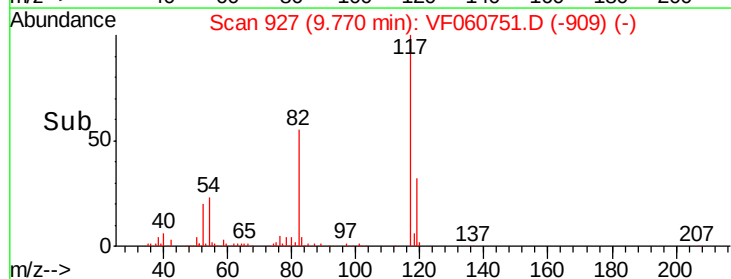
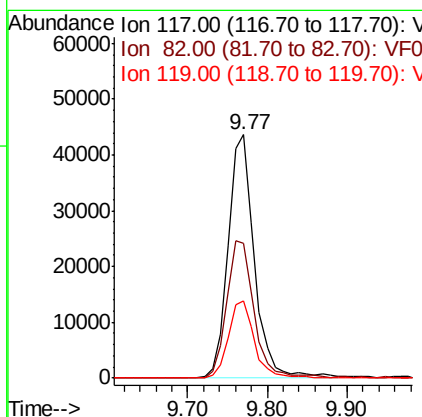
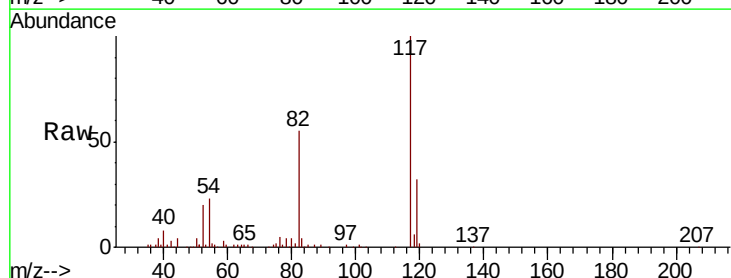
Instrument :
MSVOA_F
ClientSampled :

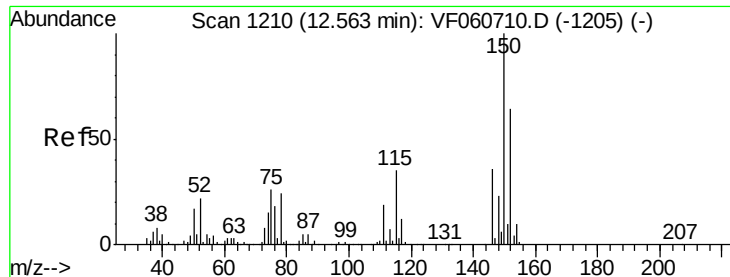
Tot Ion: 95 Resp: 39498
Ion Ratio Lower Upper
95 100
174 75.0 0.0 121.6
176 75.3 0.0 115.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF060751.D
Acq: 15 Nov 2018 17:19

Tgt Ion: 117 Resp: 101206
Ion Ratio Lower Upper
117 100
82 55.5 47.9 71.9
119 31.5 26.8 40.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.02 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

ClientSampled :

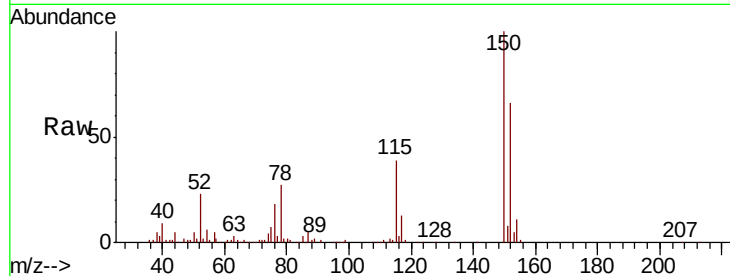
Tot Ion:152 Resp: 45532

Ion Ratio Lower Upper

152 100

115 59.4 27.9 83.7

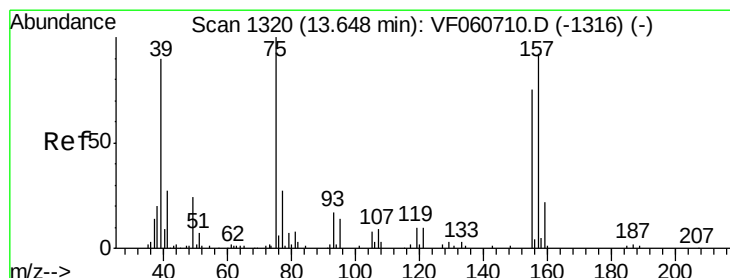
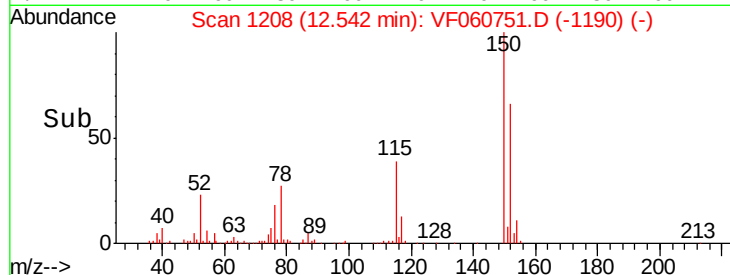
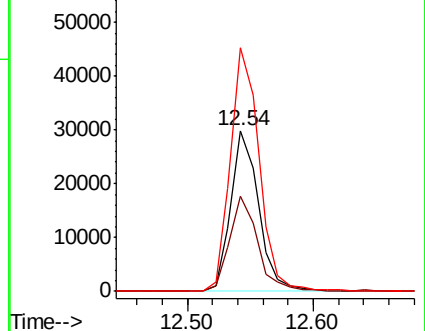
150 151.4 0.0 316.4



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.020 ug/l

RT: 13.66 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

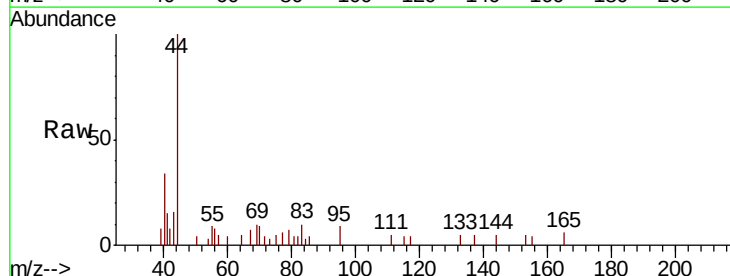
Tgt Ion: 75 Resp: 230

Ion Ratio Lower Upper

75 100

155 93.5 37.4 112.2

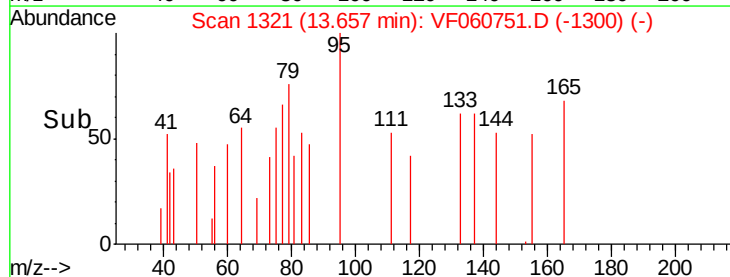
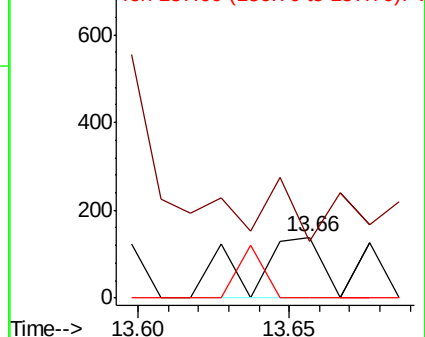
157 0.0 46.0 138.0#

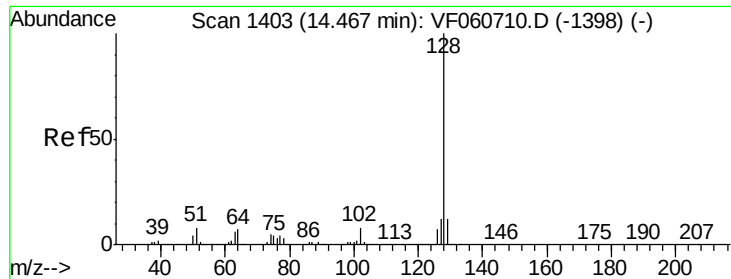


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#95

Napthalene

Concen: 1.226 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF060751.D

Acq: 15 Nov 2018 17:19

Instrument :

MSVOA_F

ClientSampleId :

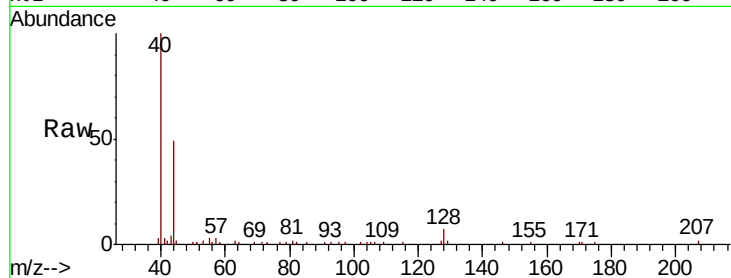
Tot Ion:128 Resp: 2298

Ion Ratio Lower Upper

128 100

127 24.4 9.8 14.6#

129 20.9 9.3 13.9#



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

