

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100518\
 Data File : VF060476.D
 Acq On : 6 Oct 2018 1:10
 Operator : VA/AP
 Sample : J5084-10
 Misc : 6.12/5mL/MSVOA F/SOIL
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 B-12(7-7.5)

Quant Time: Oct 06 04:41:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	333087	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.74	114	551942	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	448539	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	247391	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	168183	32.27	ug/l	0.00
Spiked Amount			Recovery	=	64.54%	
35) Dibromofluoromethane	4.27	113	202346	39.02	ug/l	0.00
Spiked Amount			Recovery	=	78.04%	
50) Toluene-d8	7.69	98	444842	34.83	ug/l	0.00
Spiked Amount			Recovery	=	69.66%	
62) 4-Bromofluorobenzene	11.50	95	186255	31.94	ug/l	0.00
Spiked Amount			Recovery	=	63.88%	

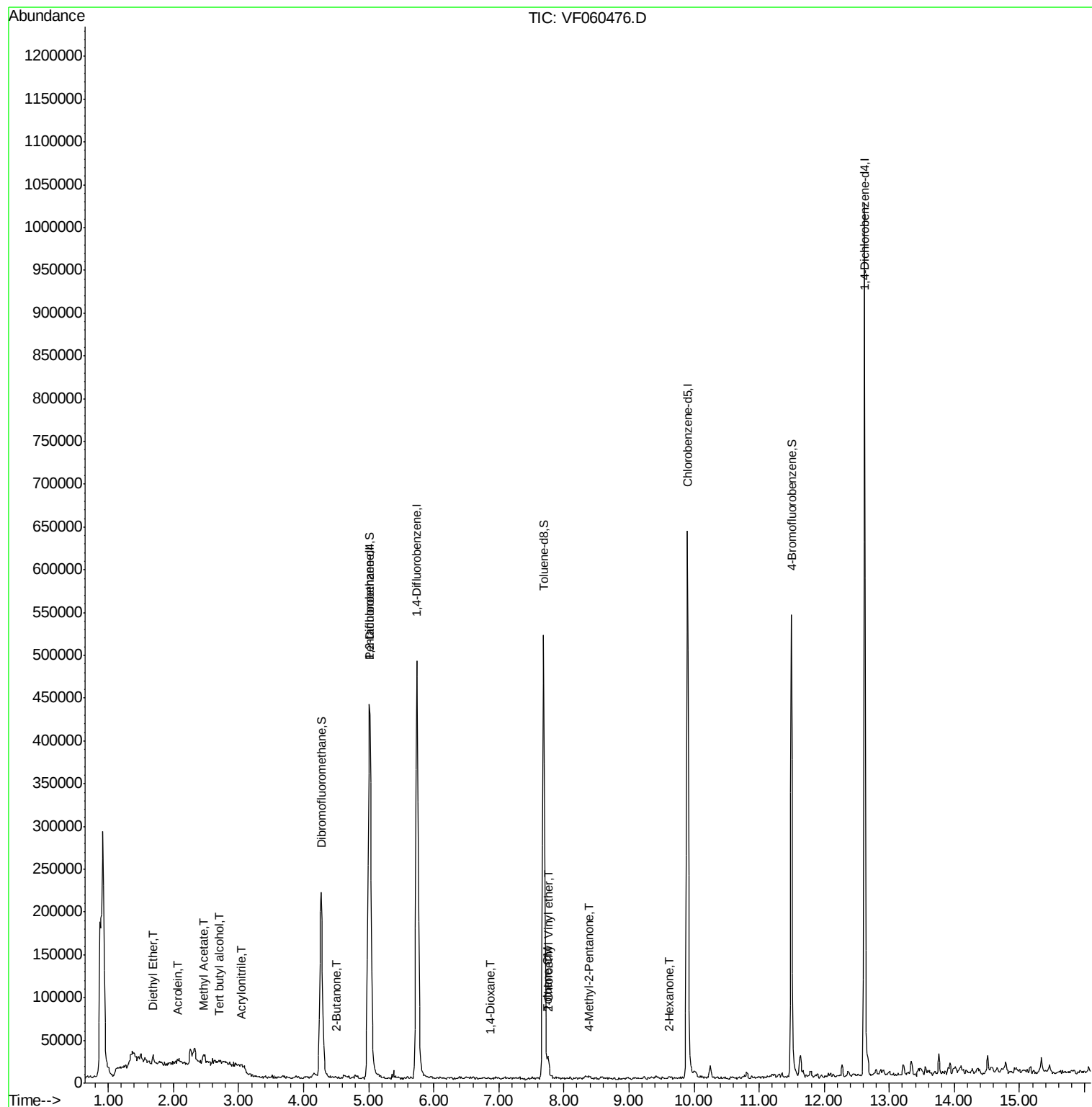
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.98	85	752	Below Cal	#	63
8) Diethyl Ether	1.69	74	1893	1.265	ug/l	52
11) Tert butyl alcohol	2.70	59	622	1.973	ug/l #	1
13) Acrolein	2.06	56	612	2.414	ug/l #	57
15) Acrylonitrile	3.05	53	1051	1.946	ug/l #	54
16) Acetone	2.33	43	11969	Below Cal	#	89
18) Methyl Acetate	2.47	43	6455	1.574	ug/l #	74
20) Methylene Chloride	2.26	84	7232	Below Cal	#	80
25) 2-Butanone	4.50	43	3594	2.663	ug/l #	90
29) Tetrahydrofuran	4.25	42	909	Below Cal		93
49) 1,4-Dioxane	6.87	88	85	4.361	ug/l #	25
51) 4-Methyl-2-Pentanone	8.39	43	2897	1.292	ug/l	99
52) Toluene	7.75	92	11187	1.219	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.77	63	1863	5.519	ug/l	100
59) 2-Hexanone	9.61	43	2588	1.574	ug/l	78

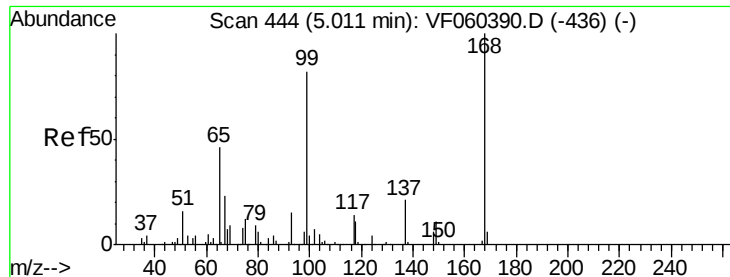
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF100518\
Data File : VF060476.D
Acq On : 6 Oct 2018 1:10
Operator : VA/AP
Sample : J5084-10
Misc : 6.12/5mL/MSVOA F/SOIL
ALS Vial : 49 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
B-12(7-7.5)

Quant Time: Oct 06 04:41:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 02 11:42:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 445

Delta R.T. 0.01 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

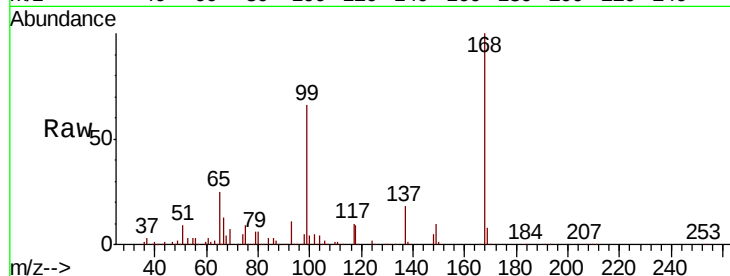
B-12(7-7.5)

Tot Ion:168 Resp: 333087

Ion Ratio Lower Upper

168 100

99 65.5 65.3 97.9



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

120000

100000

80000

60000

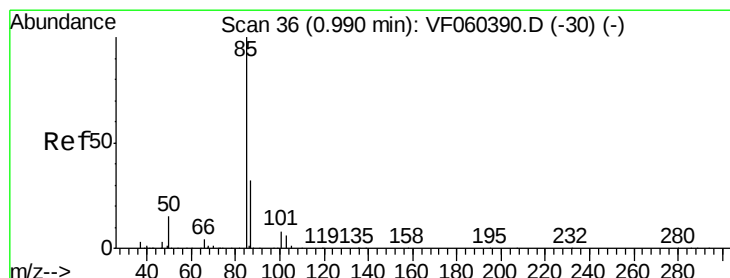
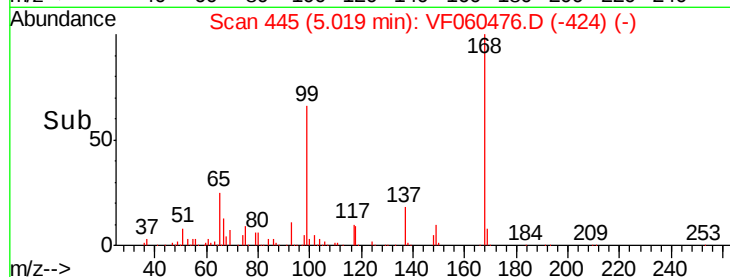
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 35

Delta R.T. -0.01 min

Lab File: VF060476.D

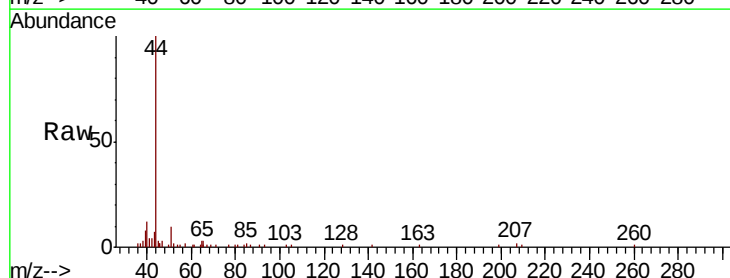
Acq: 6 Oct 2018 1:10

Tgt Ion: 85 Resp: 752

Ion Ratio Lower Upper

85 100

87 52.2 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

300

250

200

150

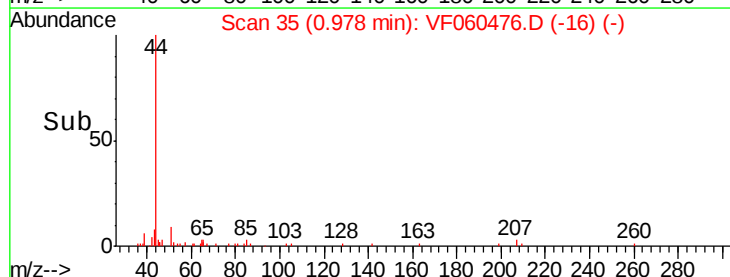
100

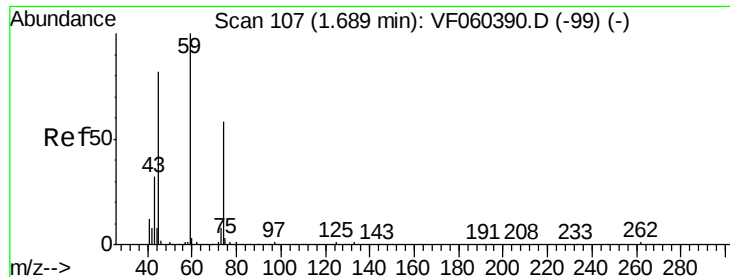
50

0

Time-->

0.95 1.00 1.05





#8

Diethyl Ether

Concen: 1.265 ug/l

RT: 1.69 min Scan# 107

Delta R.T. -0.00 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

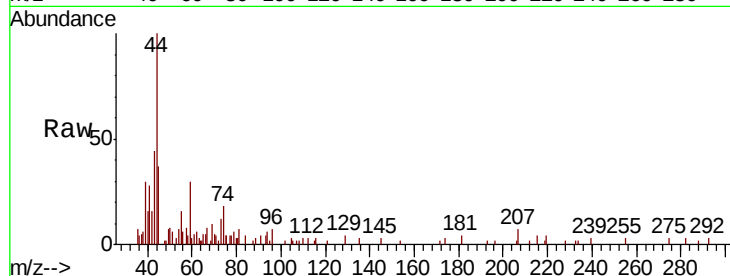
B-12(7-7.5)

Tot Ion: 74 Resp: 1893

Ion Ratio Lower Upper

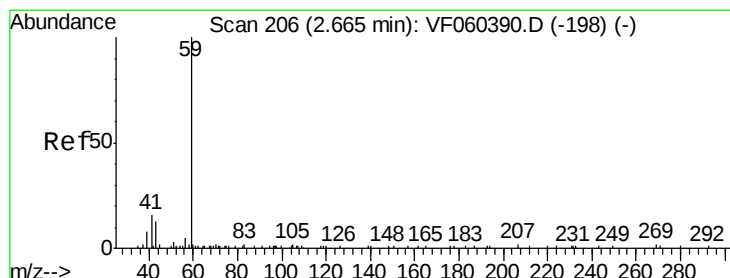
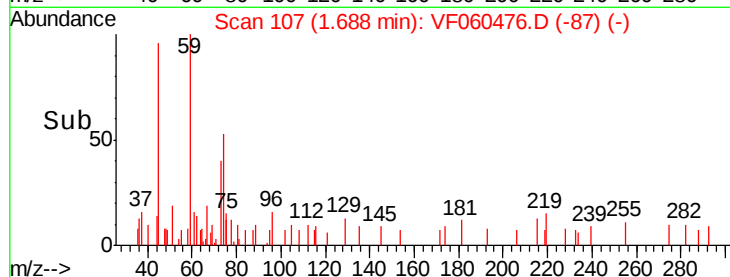
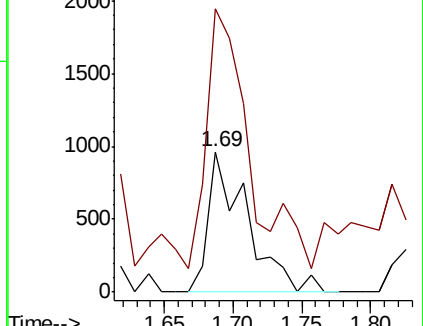
74 100

45 201.5 71.3 213.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 1.973 ug/l

RT: 2.70 min Scan# 210

Delta R.T. 0.04 min

Lab File: VF060476.D

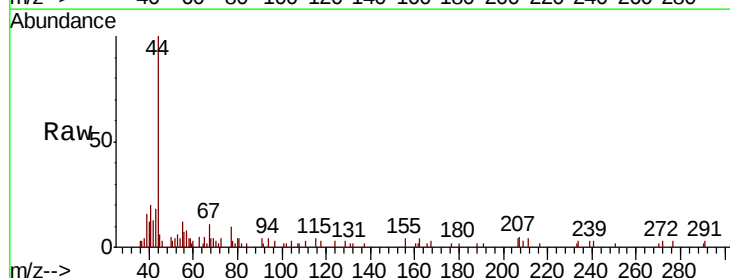
Acq: 6 Oct 2018 1:10

Tgt Ion: 59 Resp: 622

Ion Ratio Lower Upper

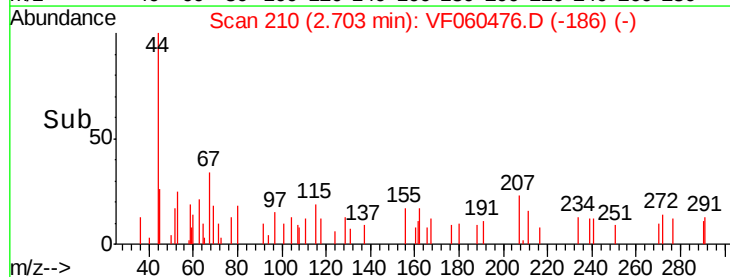
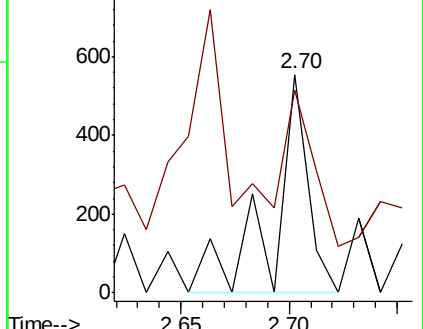
59 100

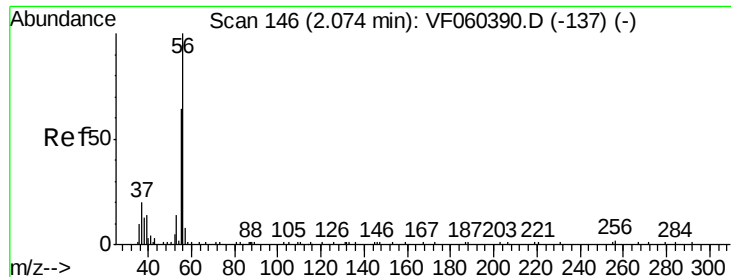
57 92.6 6.5 9.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

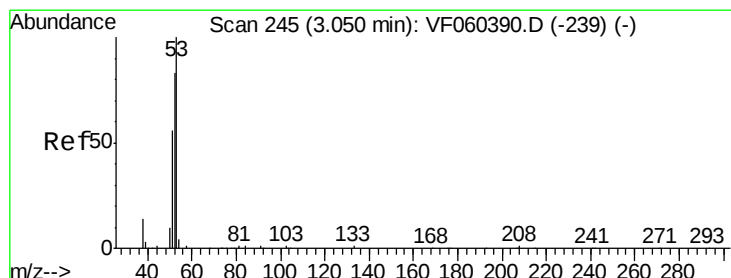
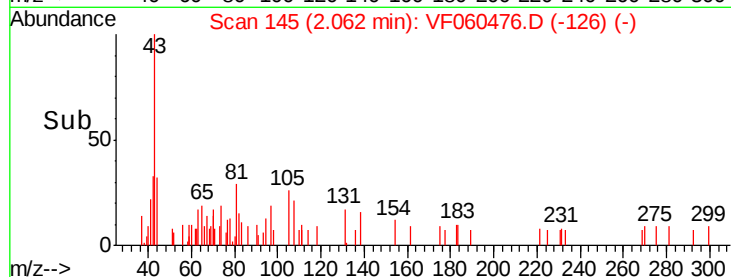
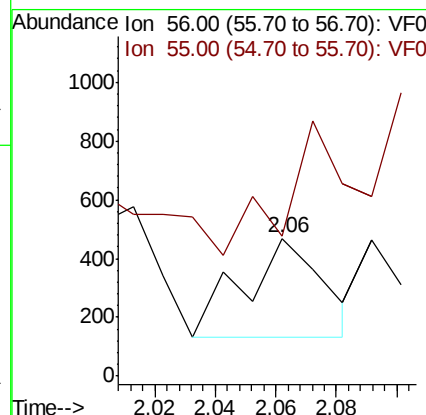
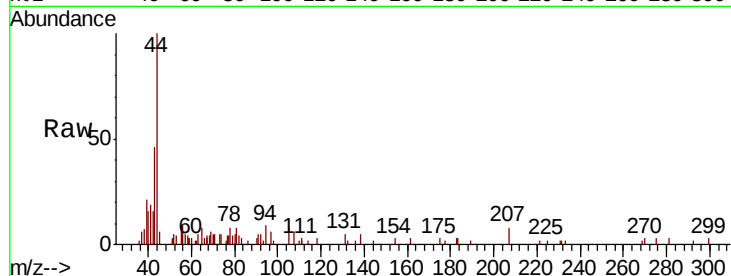




#13
Acrolein
Concen: 2.414 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.01 min
Lab File: VF060476.D
Acq: 6 Oct 2018 1:10

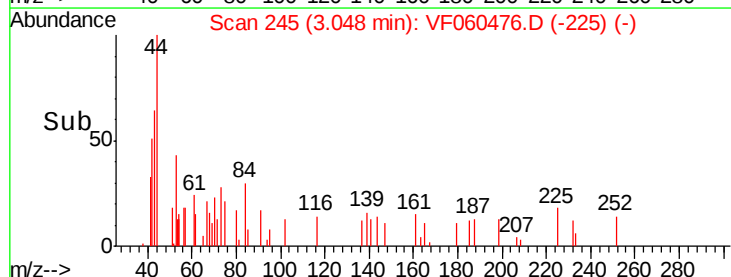
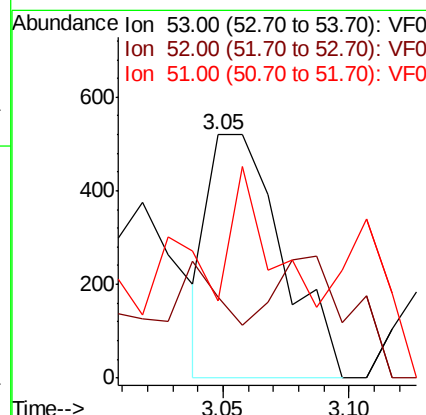
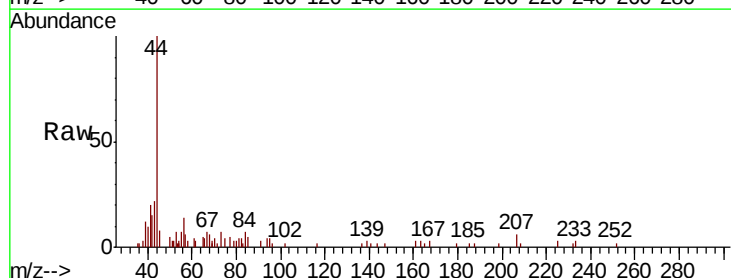
Instrument :
MSVOA_F
ClientSampled :
B-12(7-7.5)

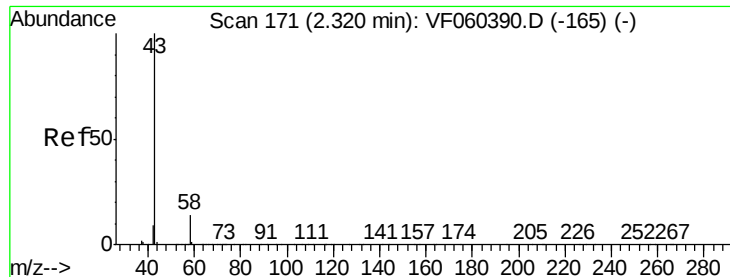
Tot Ion: 56 Resp: 612
Ion Ratio Lower Upper
56 100
55 101.9 53.9 80.9#



#15
Acrylonitrile
Concen: 1.946 ug/l
RT: 3.05 min Scan# 245
Delta R.T. -0.00 min
Lab File: VF060476.D
Acq: 6 Oct 2018 1:10

Tgt Ion: 53 Resp: 1051
Ion Ratio Lower Upper
53 100
52 33.3 66.0 99.0#
51 31.7 45.6 68.4#





#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 172

Delta R.T. 0.01 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

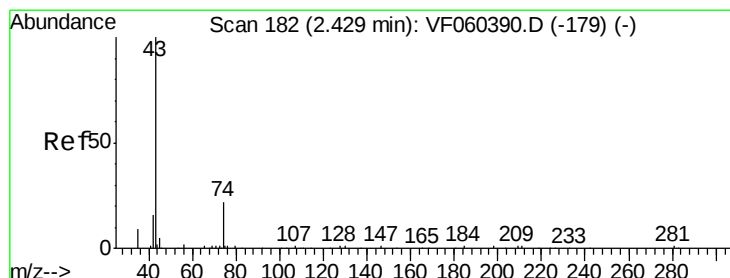
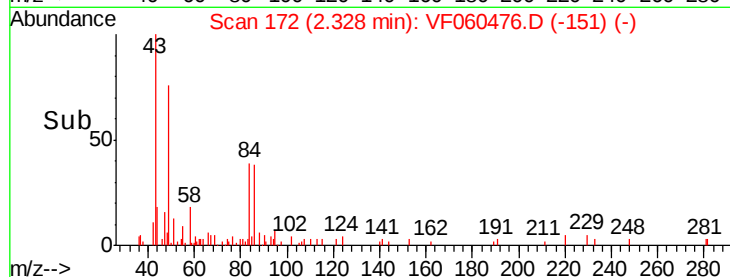
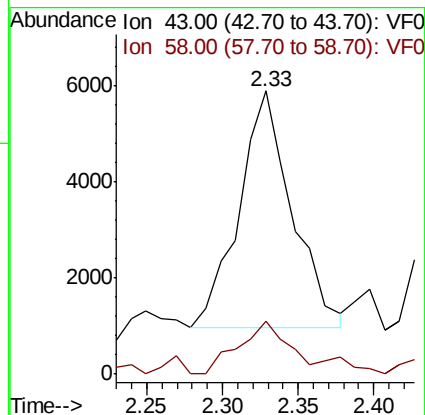
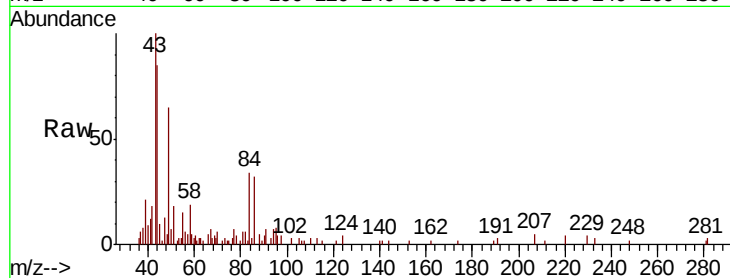
B-12(7-7.5)

Tot Ion: 43 Resp: 11969

Ion Ratio Lower Upper

43 100

58 18.6 11.2 16.8#



#18

Methyl Acetate

Concen: 1.574 ug/l

RT: 2.47 min Scan# 186

Delta R.T. 0.04 min

Lab File: VF060476.D

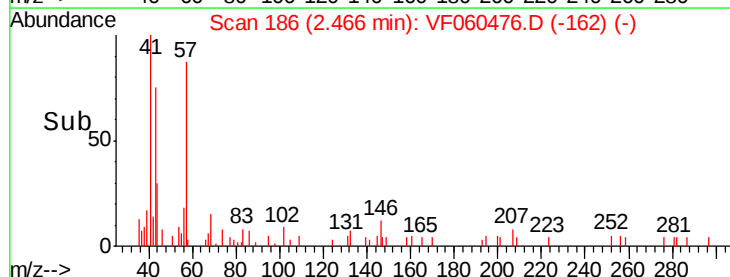
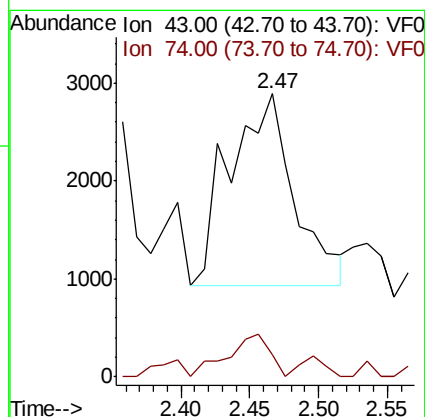
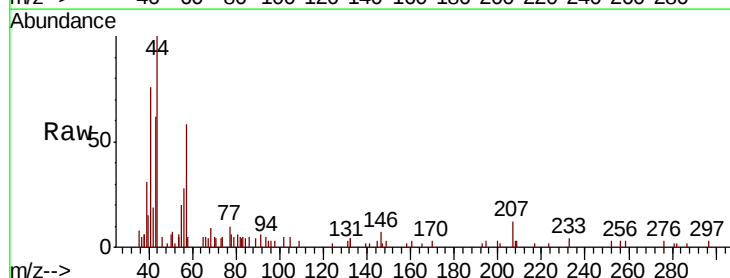
Acq: 6 Oct 2018 1:10

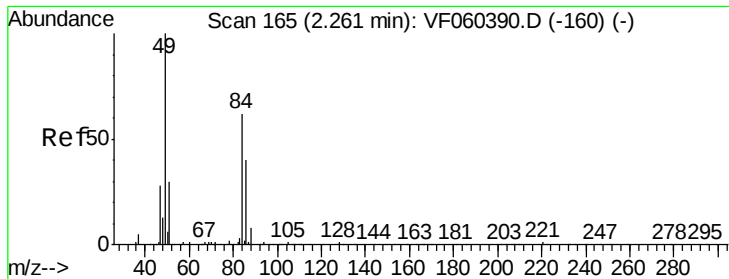
Tgt Ion: 43 Resp: 6455

Ion Ratio Lower Upper

43 100

74 7.9 15.8 23.8#



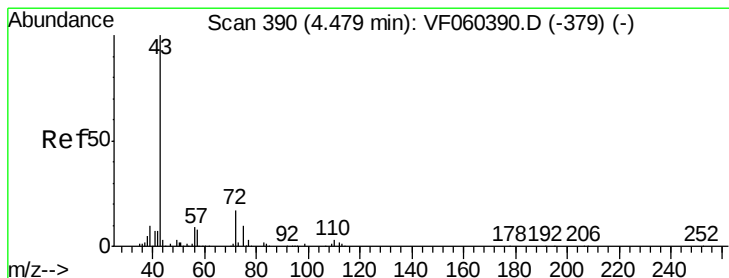
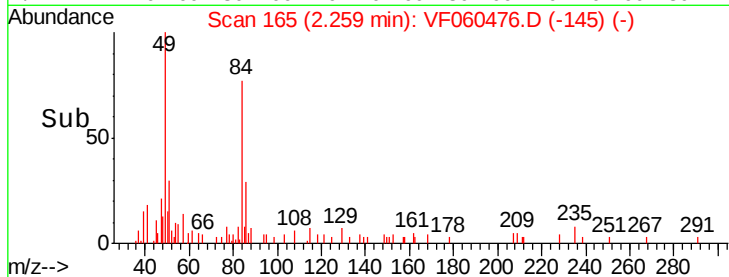
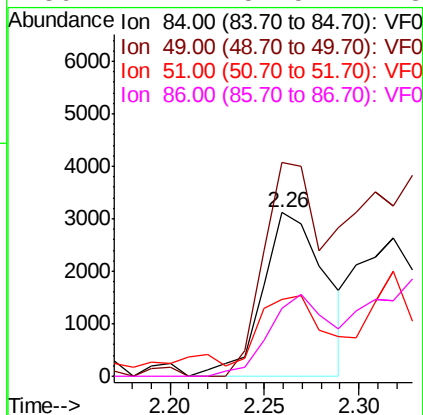
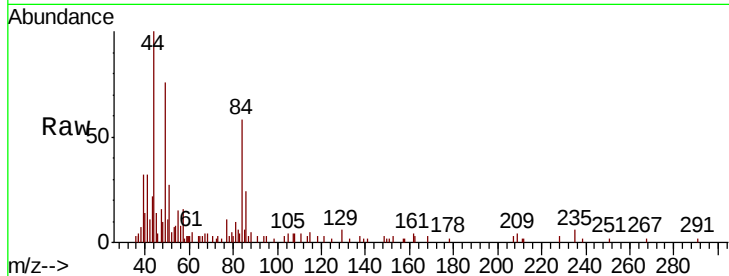


#20

Methvlene Chloride
 Concen: Below Cal
 RT: 2.26 min Scan# 165
 Delta R.T. -0.00 min
 Lab File: VF060476.D
 Acq: 6 Oct 2018 1:10

Instrument :
 MSVOA_F
 ClientSampleId :
 B-12(7-7.5)

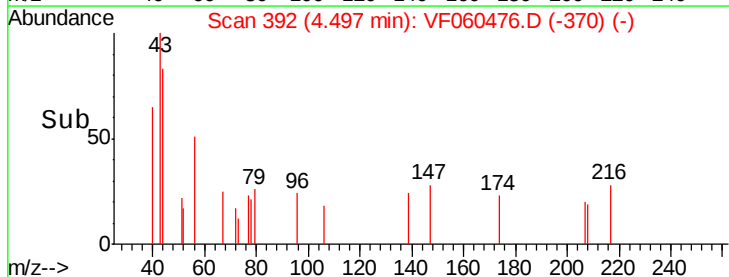
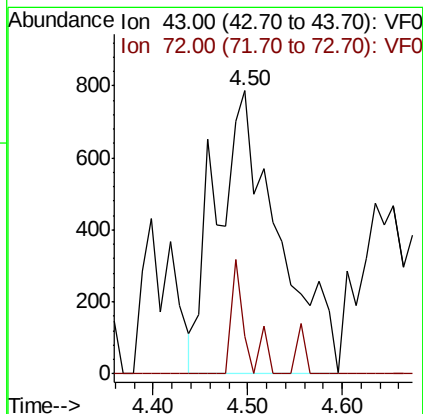
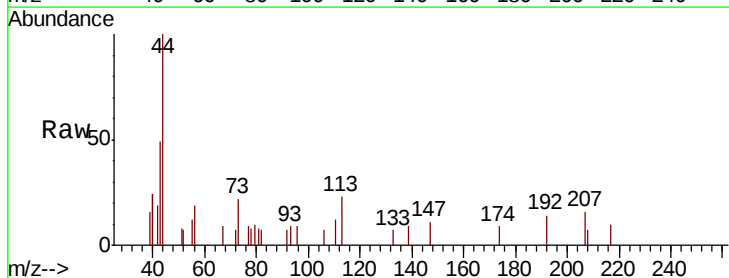
Tot Ion: 84 Resp: 7232
 Ion Ratio Lower Upper
 84 100
 49 130.6 130.2 195.2
 51 46.9 41.0 61.6
 86 47.7 51.5 77.3#

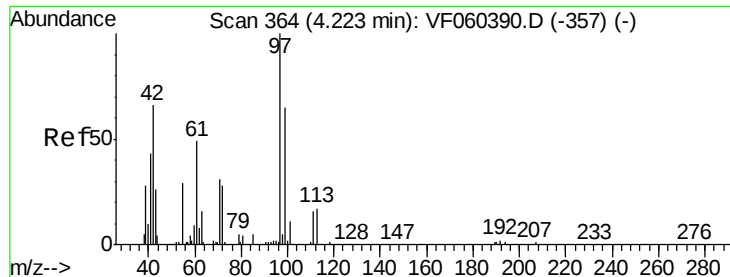


#25

2-Butanone
 Concen: 2.663 ug/l
 RT: 4.50 min Scan# 392
 Delta R.T. 0.02 min
 Lab File: VF060476.D
 Acq: 6 Oct 2018 1:10

Tgt Ion: 43 Resp: 3594
 Ion Ratio Lower Upper
 43 100
 72 13.2 14.1 21.1#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 367

Delta R.T. 0.03 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

B-12(7-7.5)

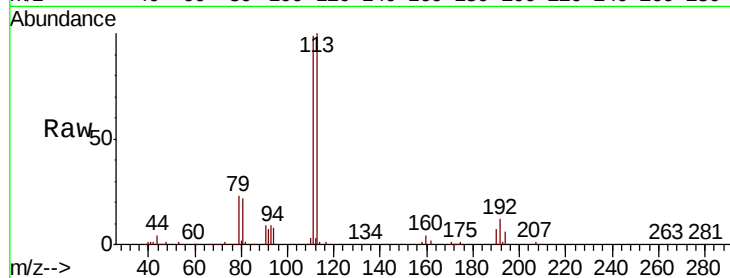
Tot Ion: 42 Resp: 909

Ion Ratio Lower Upper

42 100

72 45.7 33.6 50.4

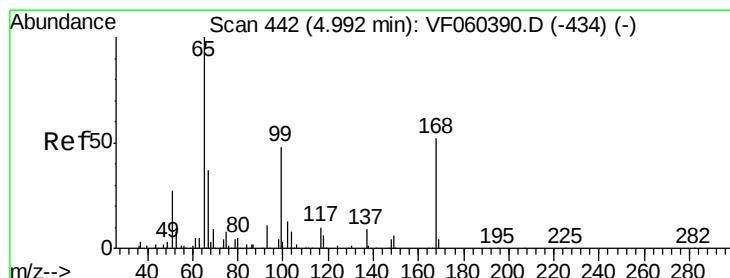
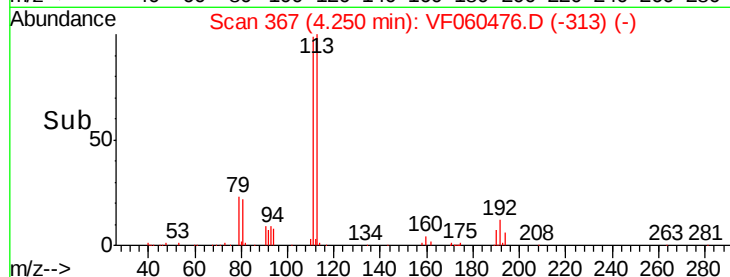
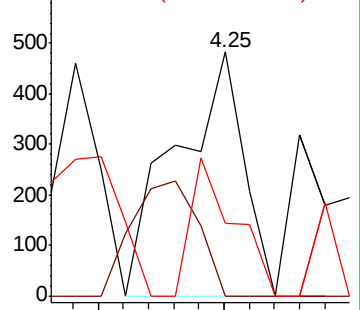
71 36.2 32.7 49.1



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: 32.268 ug/l

RT: 5.00 min Scan# 443

Delta R.T. 0.01 min

Lab File: VF060476.D

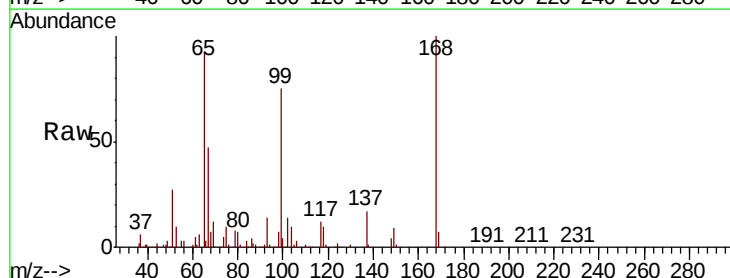
Acq: 6 Oct 2018 1:10

Tgt Ion: 65 Resp: 168183

Ion Ratio Lower Upper

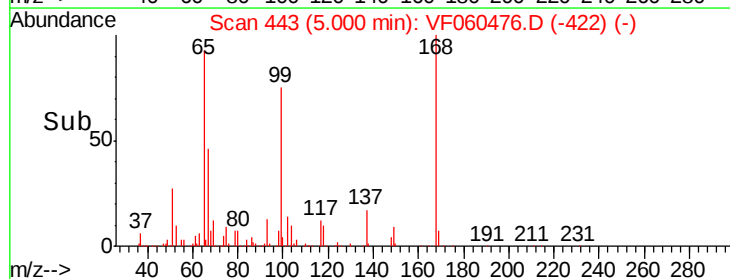
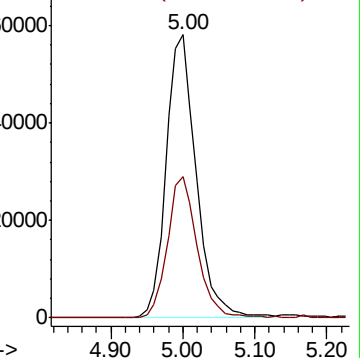
65 100

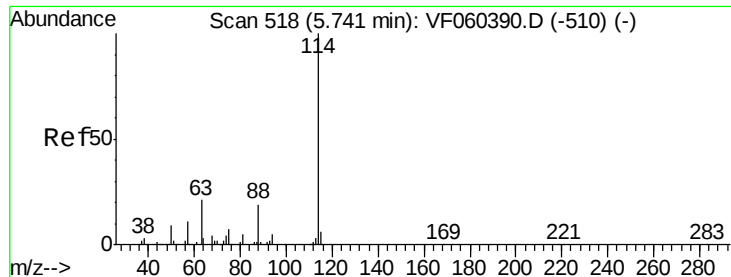
67 50.1 0.0 89.4



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: 5.74 min Scan# 518

Delta R.T. -0.00 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

B-12(7-7.5)

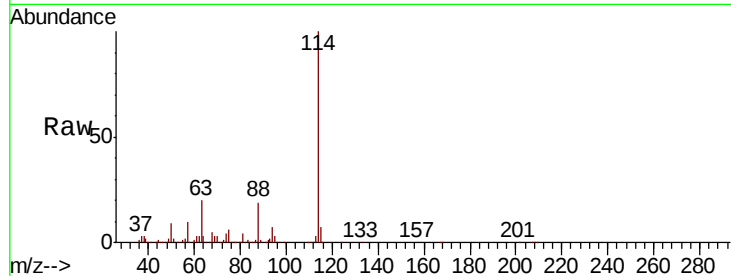
Tot Ion:114 Resp: 551942

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.2

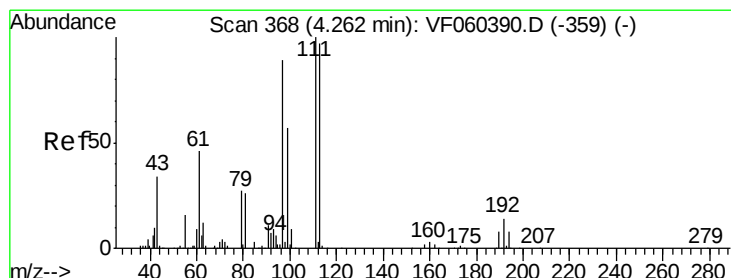
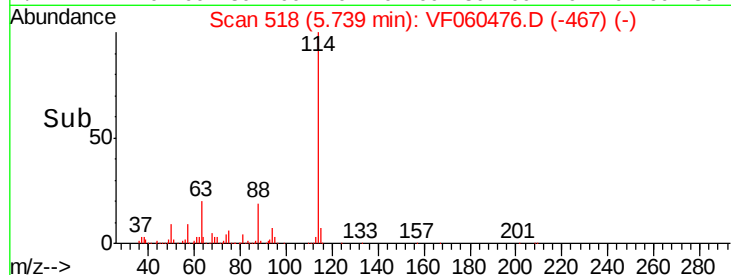
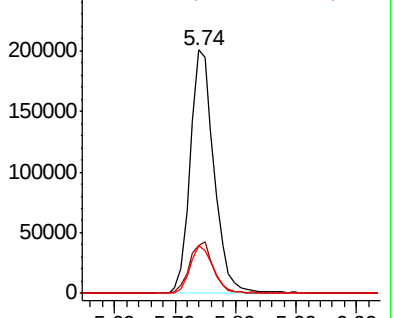
88 19.5 0.0 38.8



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: 39.024 ug/l

RT: 4.27 min Scan# 369

Delta R.T. 0.01 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

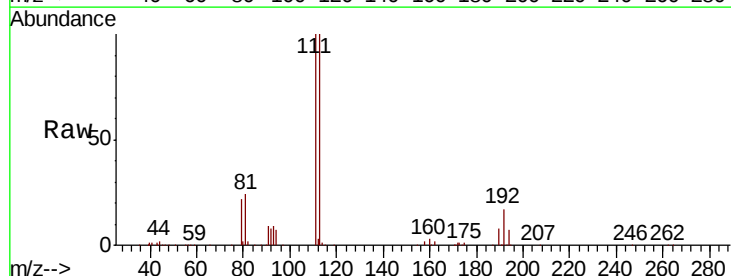
Tgt Ion:113 Resp: 202346

Ion Ratio Lower Upper

113 100

111 99.9 82.3 123.5

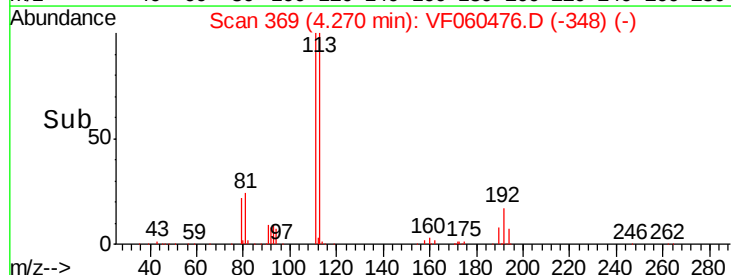
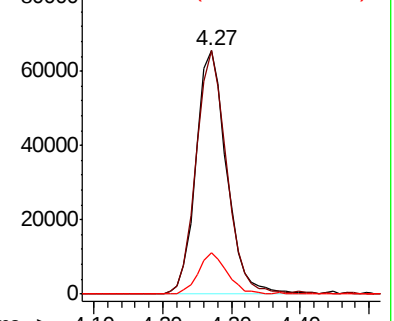
192 17.2 11.8 17.6

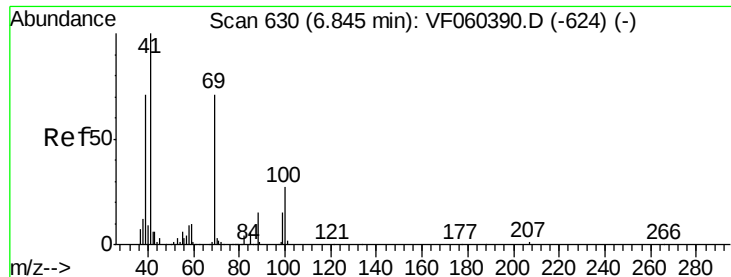


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

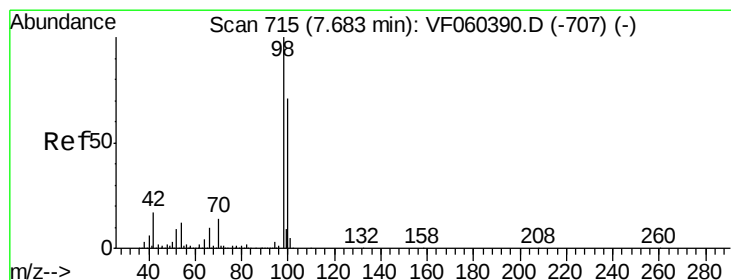
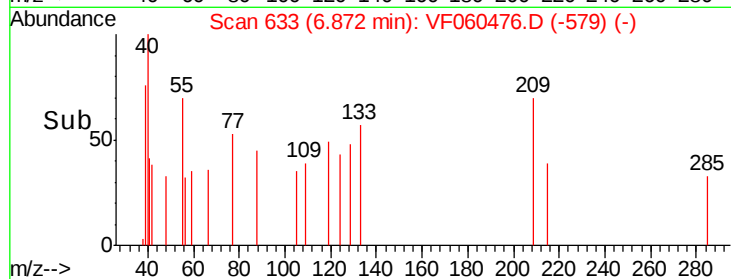
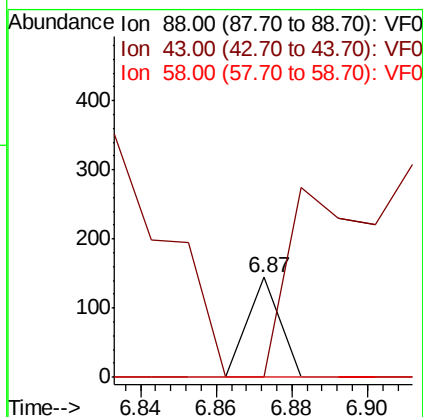
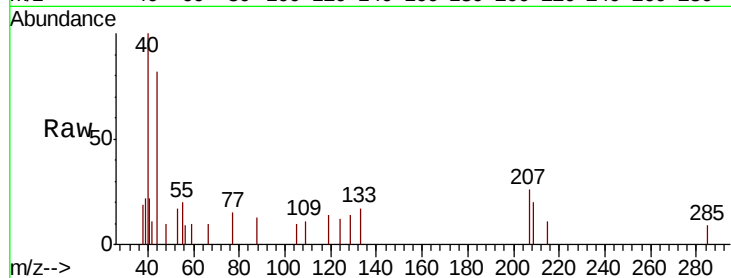




#49
 1,4-Dioxane
 Concen: 4.361 ug/l
 RT: 6.87 min Scan# 633
 Delta R.T. 0.03 min
 Lab File: VF060476.D
 Acq: 6 Oct 2018 1:10

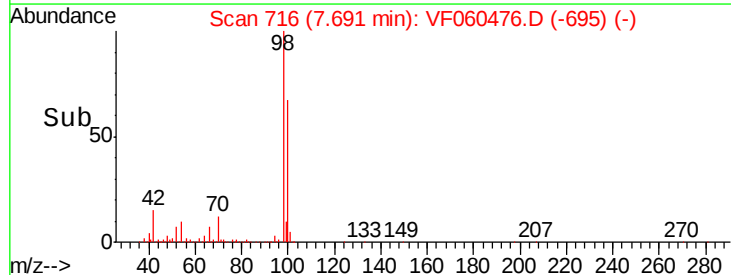
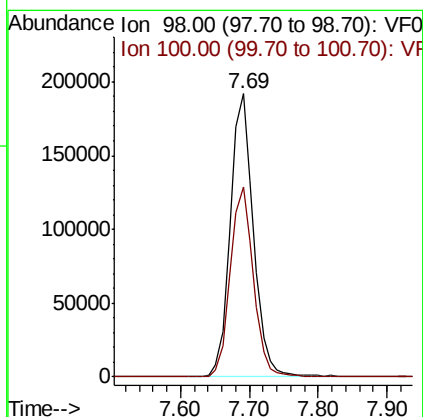
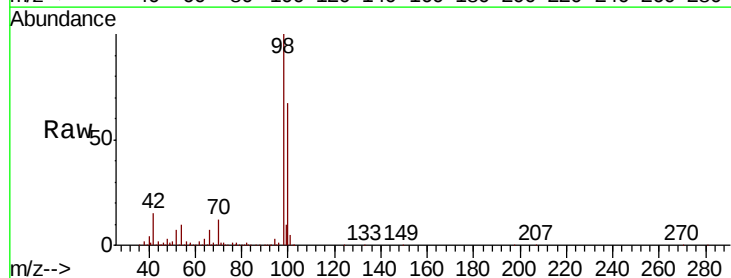
Instrument :
 MSVOA_F
 ClientSampleId :
 B-12(7-7.5)

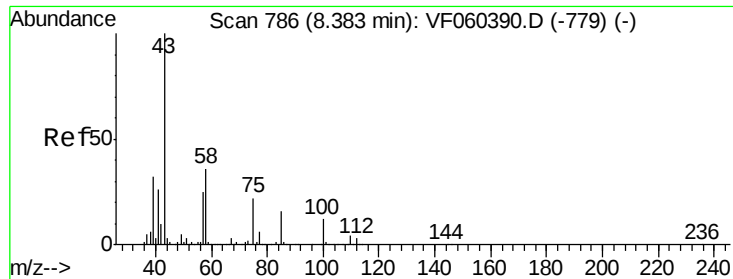
Tot Ion: 88 Resp: 85
 Ion Ratio Lower Upper
 88 100
 43 0.0 38.3 57.5#
 58 0.0 47.4 71.2#



#50
 Toluene-d8
 Concen: 34.835 ug/l
 RT: 7.69 min Scan# 716
 Delta R.T. 0.01 min
 Lab File: VF060476.D
 Acq: 6 Oct 2018 1:10

Tgt Ion: 98 Resp: 444842
 Ion Ratio Lower Upper
 98 100
 100 67.0 56.5 84.7





#51

4-Methyl-2-Pentanone

Concen: 1.292 ug/l

RT: 8.39 min Scan# 787

Delta R.T. 0.01 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

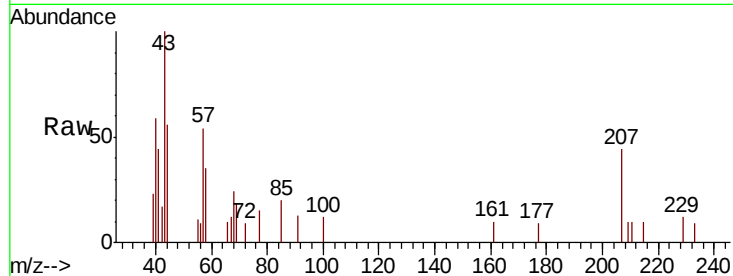
B-12(7-7.5)

Tot Ion: 43 Resp: 2897

Ion Ratio Lower Upper

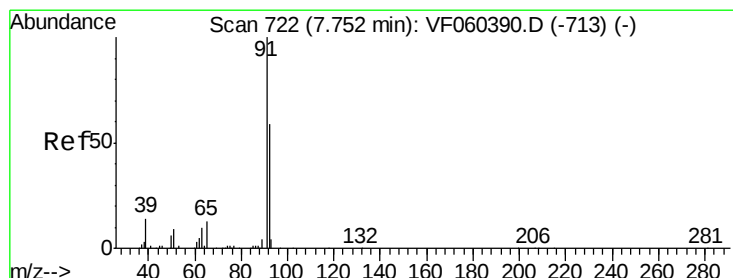
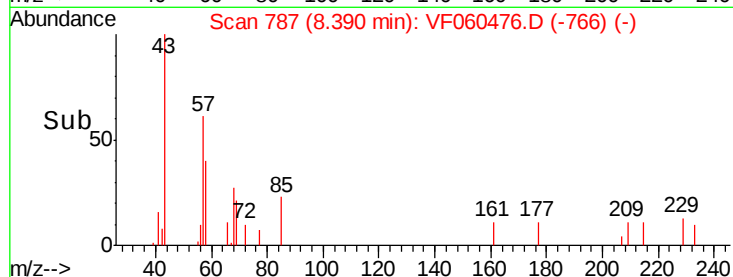
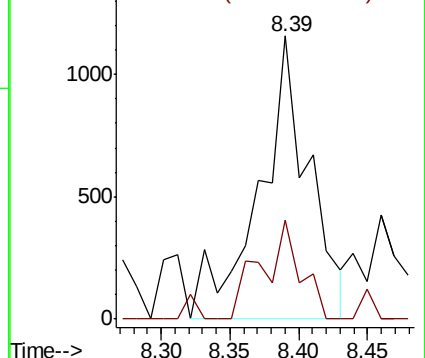
43 100

58 35.1 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.219 ug/l

RT: 7.75 min Scan# 722

Delta R.T. -0.00 min

Lab File: VF060476.D

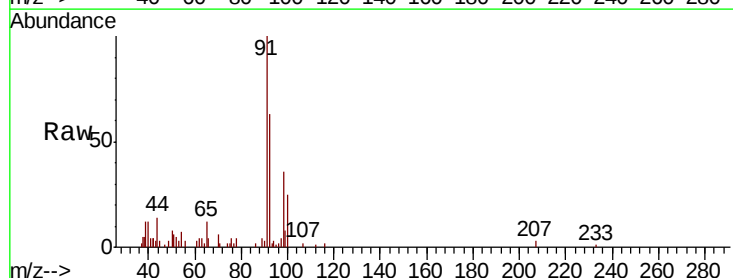
Acq: 6 Oct 2018 1:10

Tgt Ion: 92 Resp: 11187

Ion Ratio Lower Upper

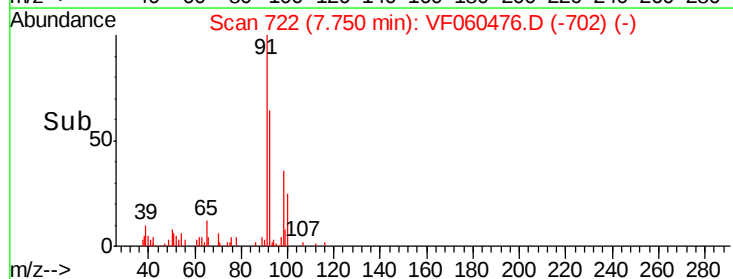
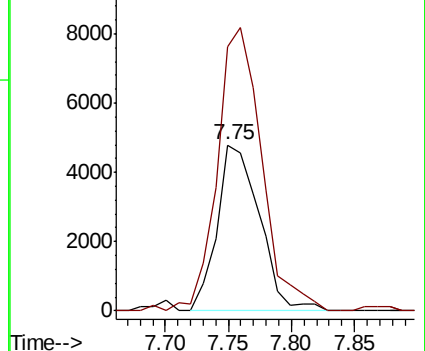
92 100

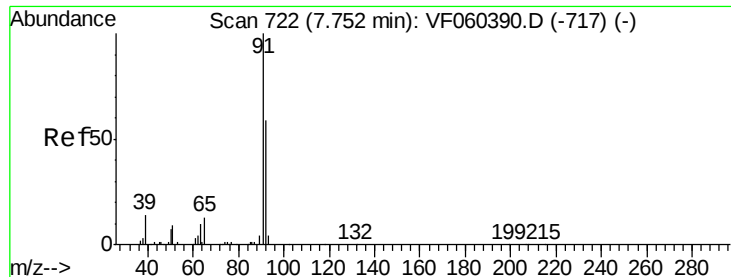
91 159.1 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 5.519 ug/l

RT: 7.77 min Scan# 724

Delta R.T. 0.02 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

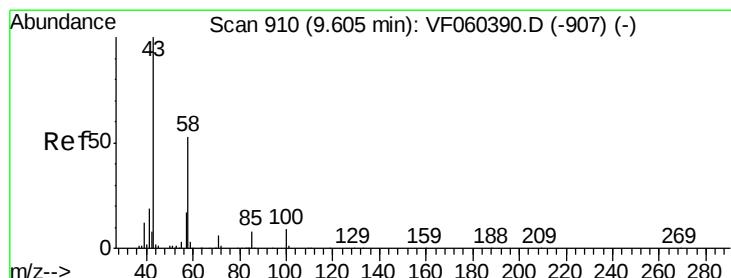
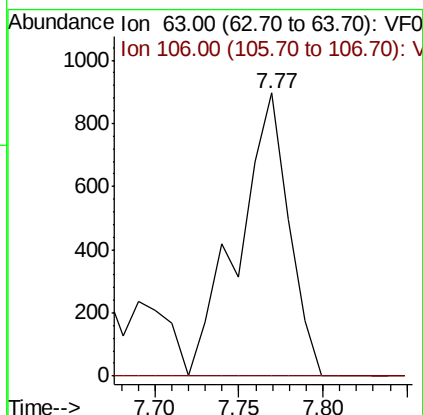
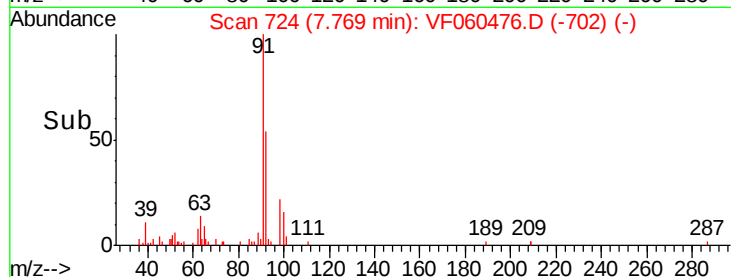
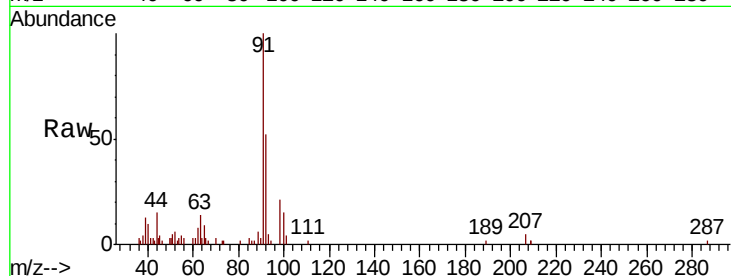
B-12(7-7.5)

Tot Ion: 63 Resp: 1863

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



#59

2-Hexanone

Concen: 1.574 ug/l

RT: 9.61 min Scan# 911

Delta R.T. 0.01 min

Lab File: VF060476.D

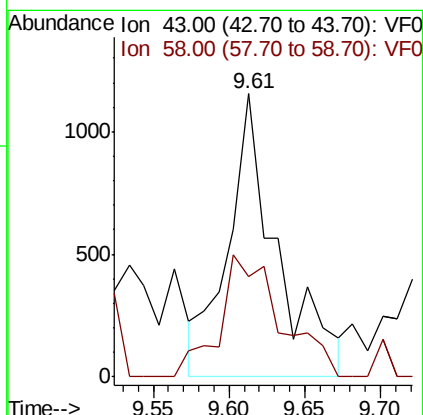
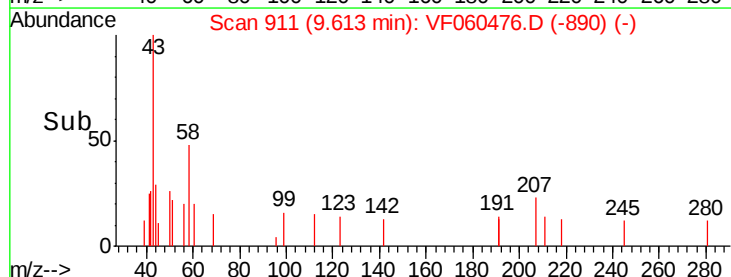
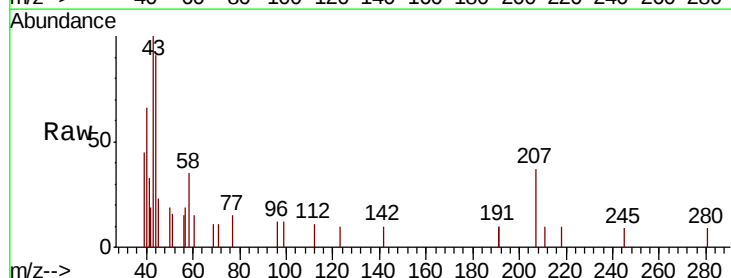
Acq: 6 Oct 2018 1:10

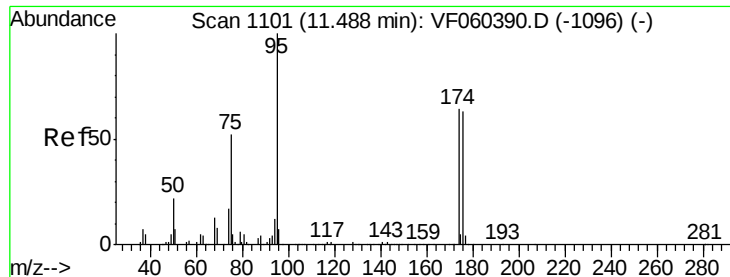
Tgt Ion: 43 Resp: 2588

Ion Ratio Lower Upper

43 100

58 35.5 25.6 76.6





#62

4-Bromofluorobenzene

Concen: 31.944 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

B-12(7-7.5)

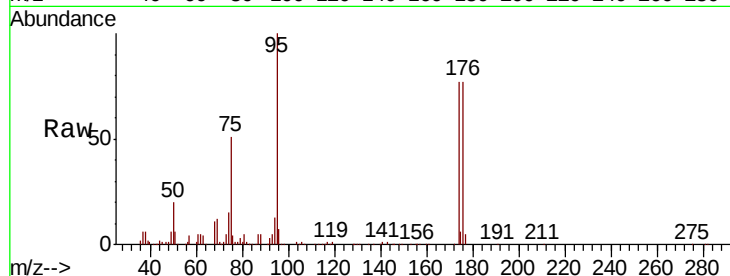
Tot Ion: 95 Resp: 186255

Ion Ratio Lower Upper

95 100

174 76.6 0.0 129.0

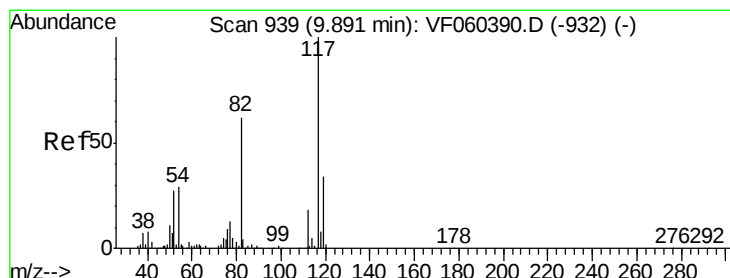
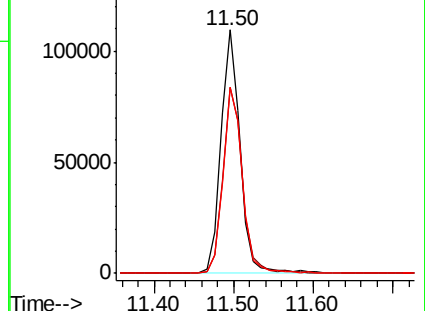
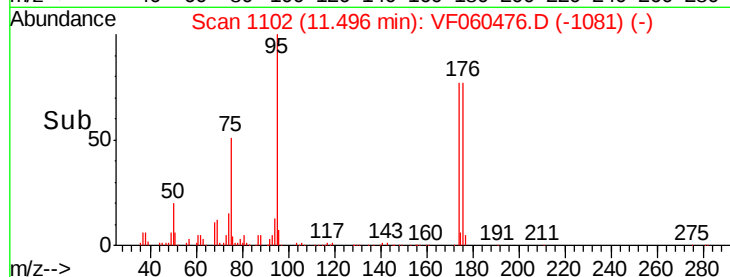
176 76.5 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

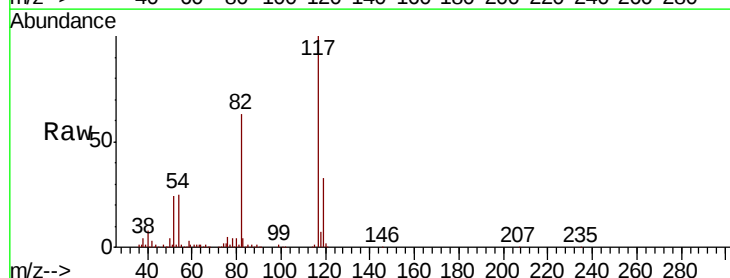
Tgt Ion: 117 Resp: 448539

Ion Ratio Lower Upper

117 100

82 62.5 49.5 74.3

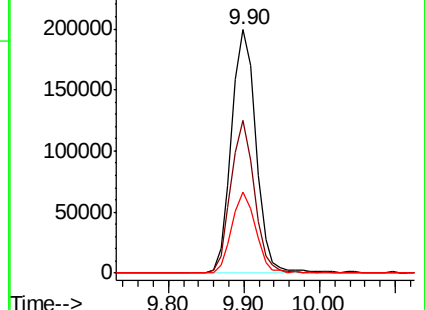
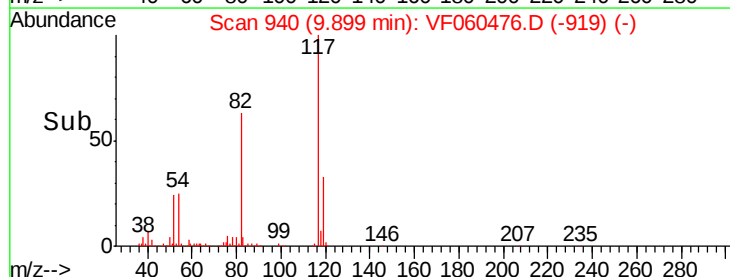
119 33.4 27.0 40.6

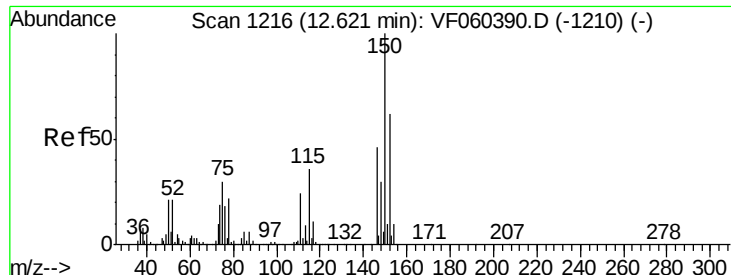


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1216

Delta R.T. -0.00 min

Lab File: VF060476.D

Acq: 6 Oct 2018 1:10

Instrument :

MSVOA_F

ClientSampleId :

B-12(7-7.5)

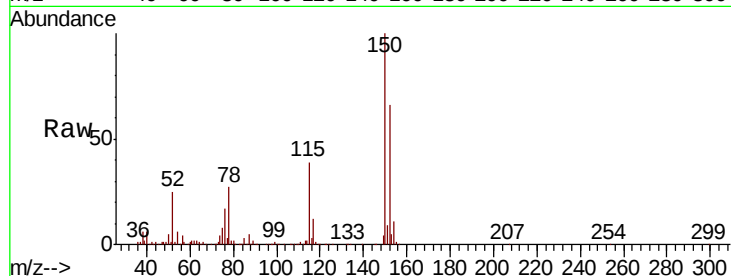
Tot Ion:152 Resp: 247391

Ion Ratio Lower Upper

152 100

115 58.4 28.6 85.8

150 150.7 0.0 324.6



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

