

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059392.D
 Acq On : 2 Jul 2018 17:36
 Operator : VA/AP
 Sample : J3802-06
 Misc : 6.32g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-6(2.0)

Quant Time: Jul 03 01:09:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	138507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	219248	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	126639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	92489	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	110481	61.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.48%	
35) Dibromofluoromethane	4.28	113	93210	58.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.36%	
50) Toluene-d8	7.70	98	121130	30.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	61.08%	
62) 4-Bromofluorobenzene	11.49	95	100636	44.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.96%	

Target Compounds

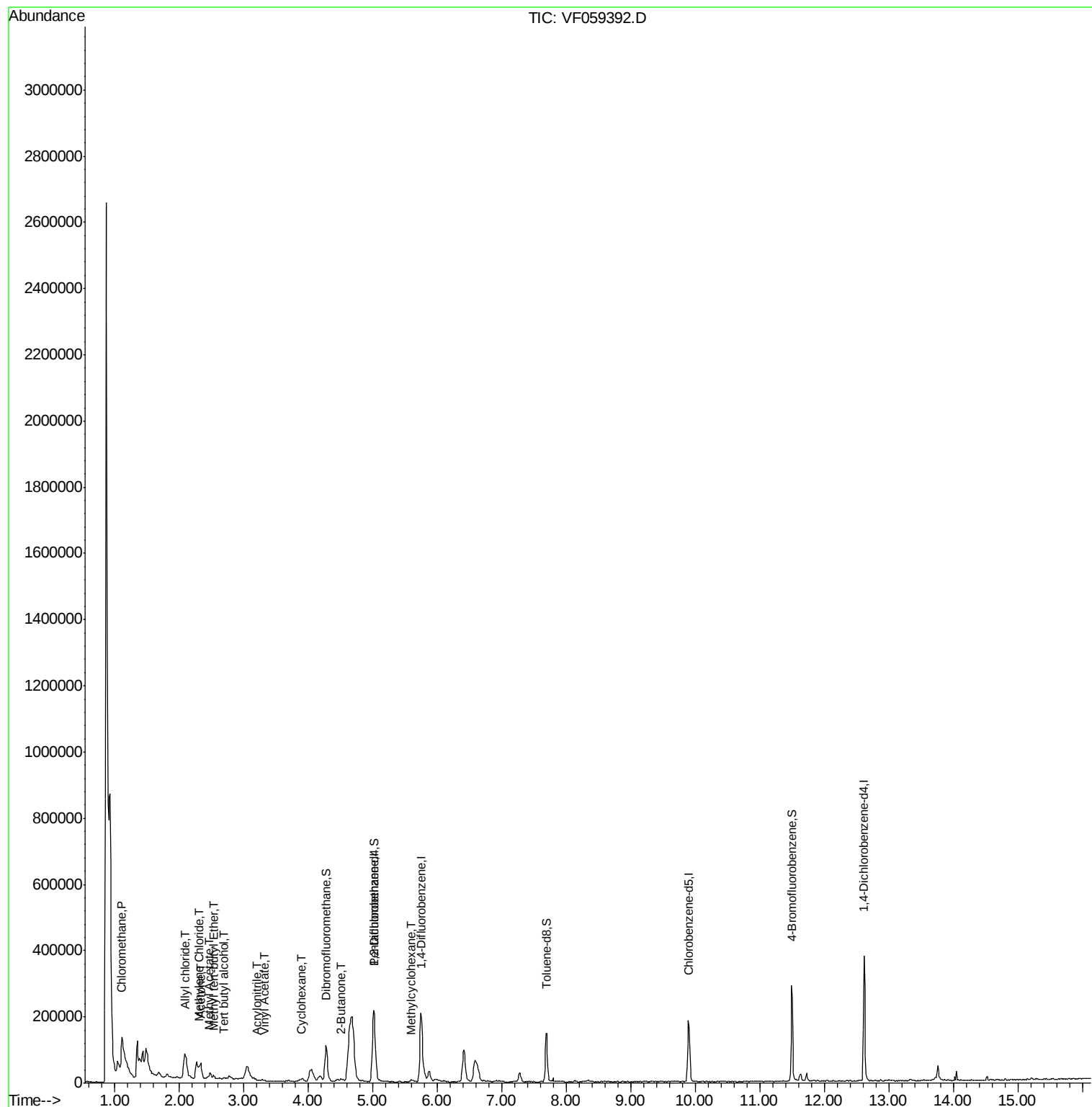
						Qvalue
3) Chloromethane	1.11	50	5878	6.91	ug/l	# 66
5) Bromomethane	1.30	94	284	Below	Cal	# 4
11) Tert butyl alcohol	2.69	59	1566	13.14	ug/l	# 66
13) Acrolein	2.02	56	748	Below	Cal	# 91
14) Allyl chloride	2.08	41	46856	30.57	ug/l	# 45
15) Acrylonitrile	3.21	53	322	1.53	ug/l	# 95
16) Acetone	2.34	43	59004	127.01	ug/l	# 98
18) Methyl Acetate	2.45	43	3517	3.27	ug/l	# 96
19) Methyl tert-butyl Ether	2.53	73	8791	2.89	ug/l	# 96
20) Methylene Chloride	2.31	84	11386	4.64	ug/l	# 90
23) Vinyl Acetate	3.32	43	2268	1.05	ug/l	# 79
25) 2-Butanone	4.50	43	9618	15.19	ug/l	# 88
28) Bromochloromethane	3.88	49	77	Below	Cal	# 6
29) Tetrahydrofuran	4.24	42	499	Below	Cal	# 47
31) Cyclohexane	3.88	56	5308	3.85	ug/l	# 45
37) Ethyl Acetate	4.26	43	1670	Below	Cal	# 20
39) Methylcyclohexane	5.60	83	2719	1.60	ug/l	# 89
49) 1,4-Dioxane	6.88	88	69	Below	Cal	# 1
59) 2-Hexanone	9.62	43	597	Below	Cal	# 53
87) 1,3-Dichlorobenzene	12.56	146	333	Below	Cal	# 67

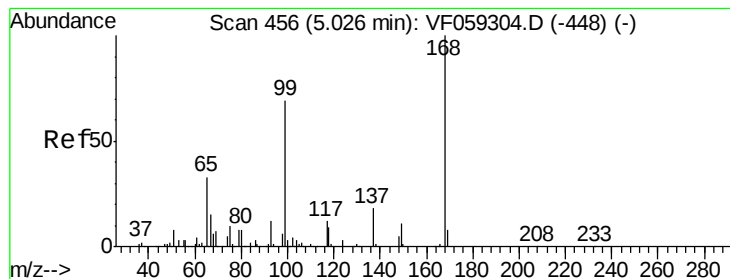
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

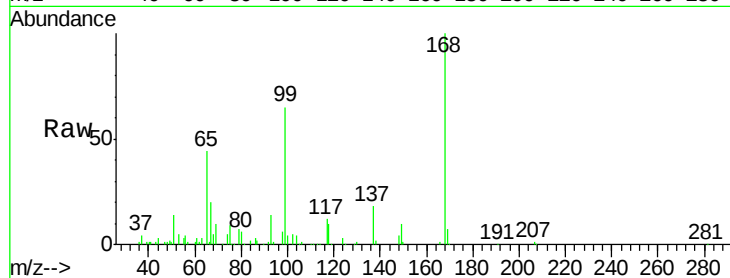
CF-6(2.0)

Tot Ion:168 Resp: 138507

Ion Ratio Lower Upper

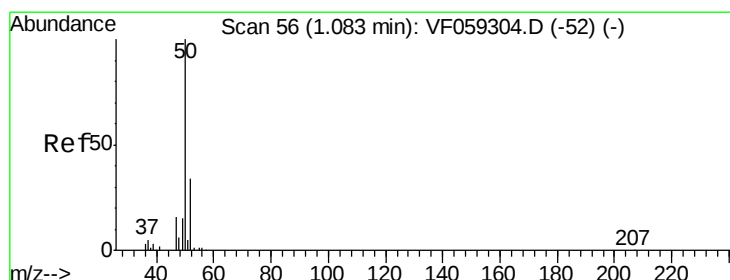
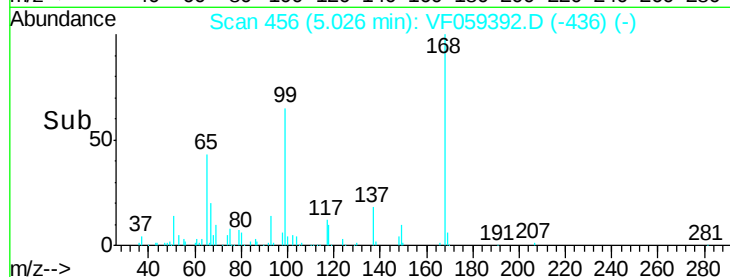
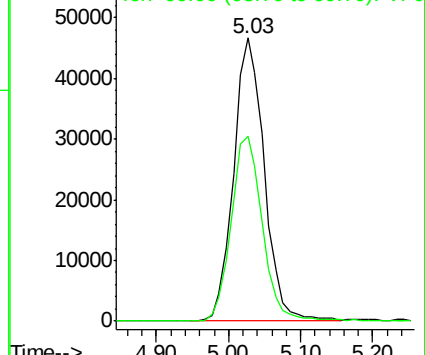
168 100

99 65.5 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 6.91 ug/l

RT: 1.11 min Scan# 59

Delta R.T. 0.03 min

Lab File: VF059392.D

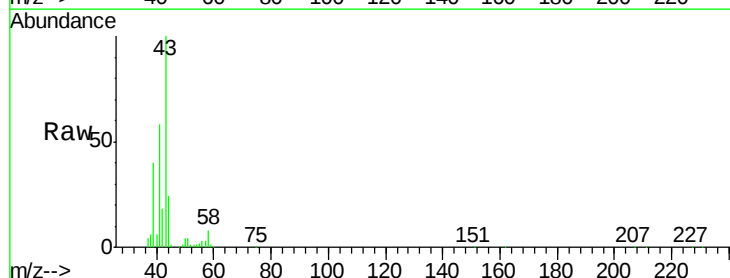
Acq: 2 Jul 2018 17:36

Tgt Ion: 50 Resp: 5878

Ion Ratio Lower Upper

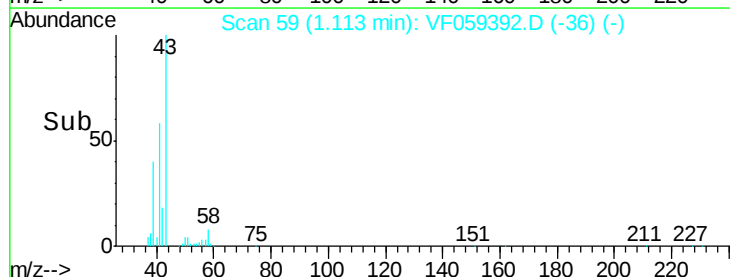
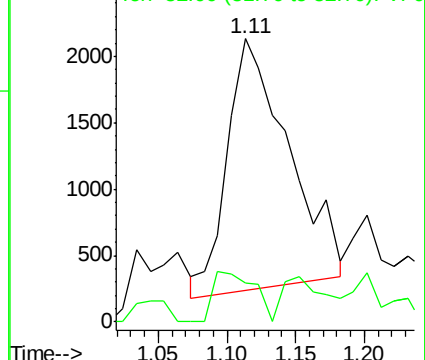
50 100

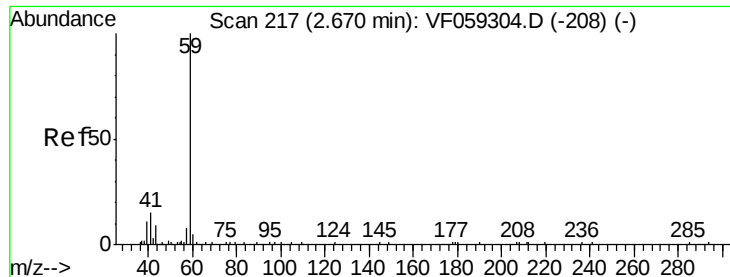
52 13.9 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#11

Tert butyl alcohol

Concen: 13.14 ug/l

RT: 2.69 min Scan# 219

Delta R.T. 0.02 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampled :

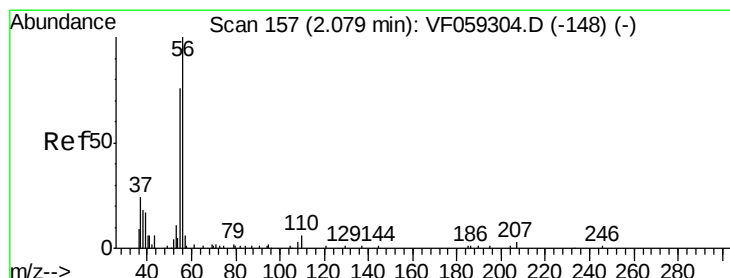
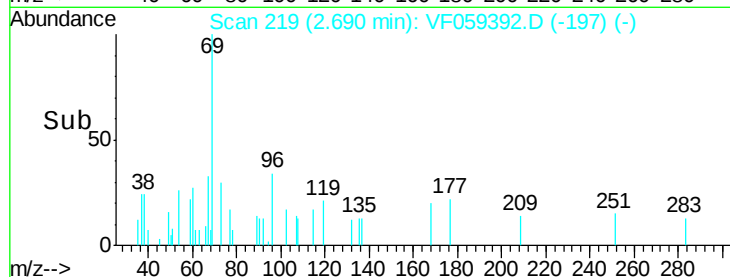
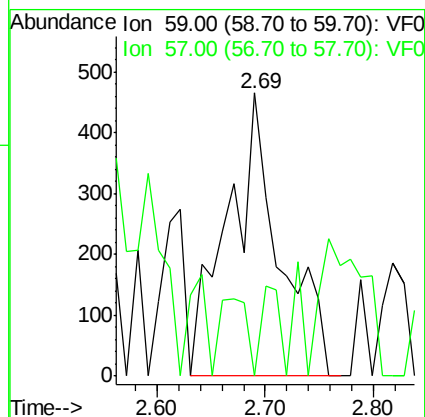
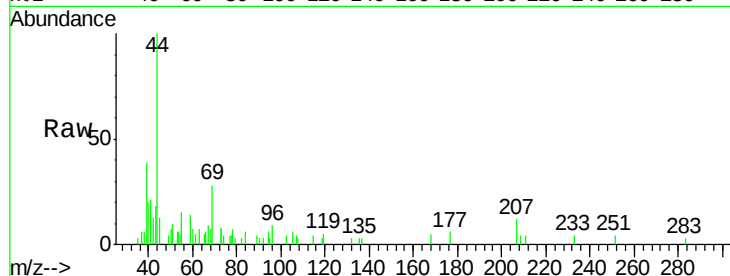
CF-6(2.0)

Tot Ion: 59 Resp: 1566

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



#13

Acrolein

Concen: Below Cal

RT: 2.02 min Scan# 151

Delta R.T. -0.06 min

Lab File: VF059392.D

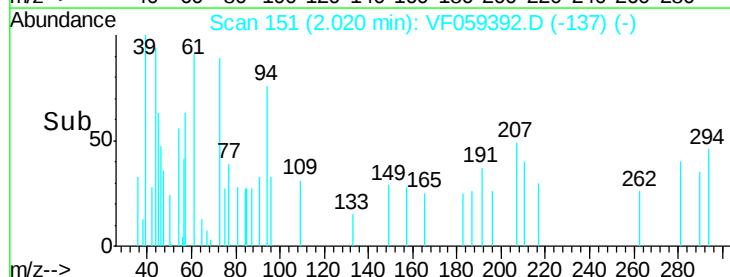
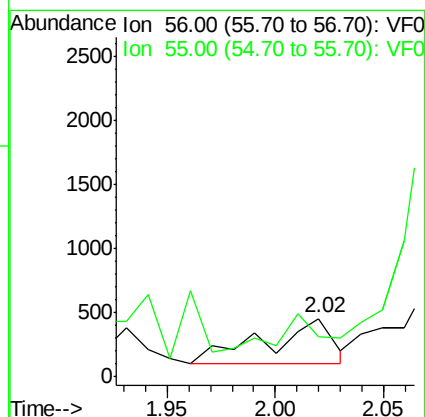
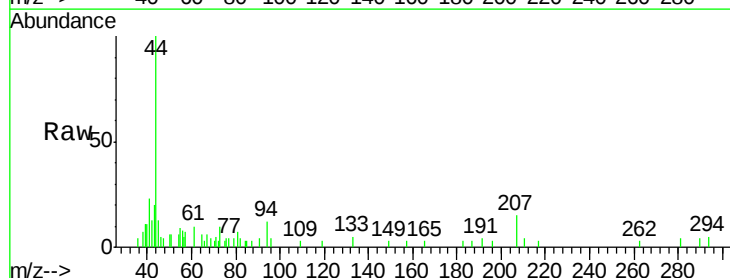
Acq: 2 Jul 2018 17:36

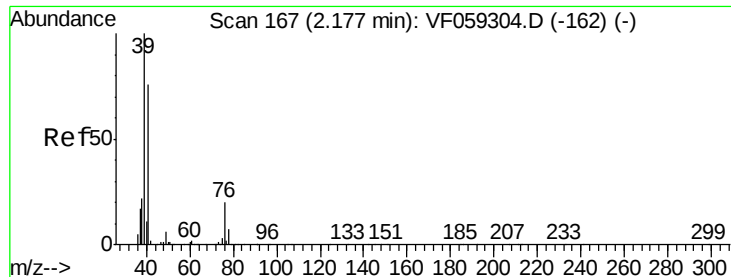
Tgt Ion: 56 Resp: 748

Ion Ratio Lower Upper

56 100

55 69.9 62.4 93.6





#14

Allvl chloride

Concen: 30.57 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.10 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

CF-6(2.0)

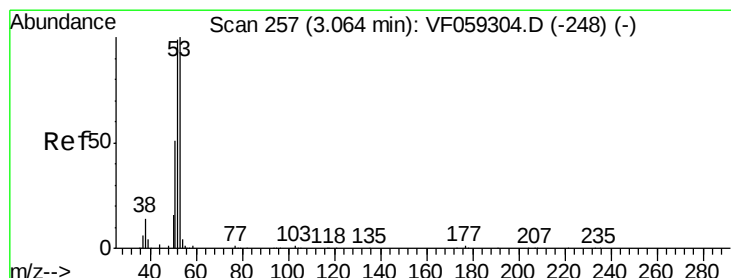
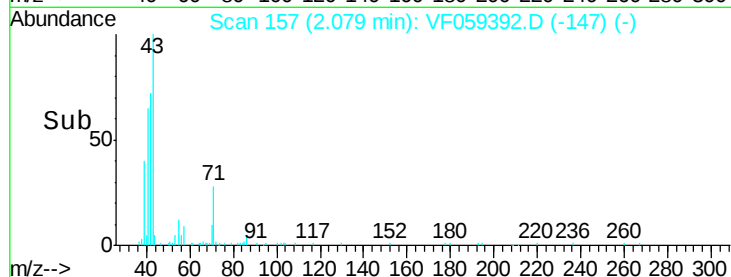
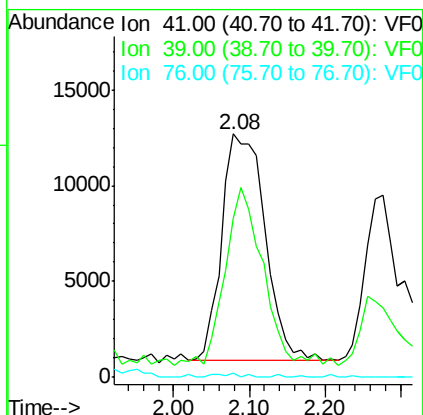
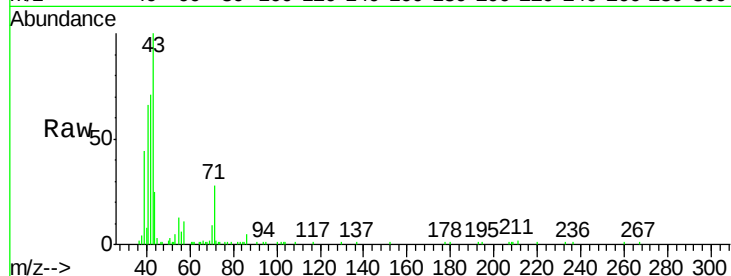
Tot Ion: 41 Resp: 46856

Ion Ratio Lower Upper

41 100

39 65.5 105.6 158.4#

76 1.5 21.6 32.4#



#15

Acrylonitrile

Concen: 1.53 ug/l

RT: 3.21 min Scan# 272

Delta R.T. 0.15 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

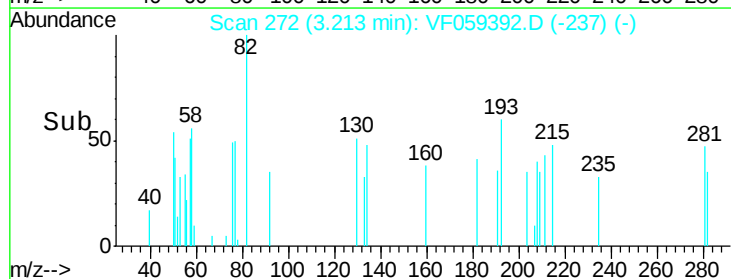
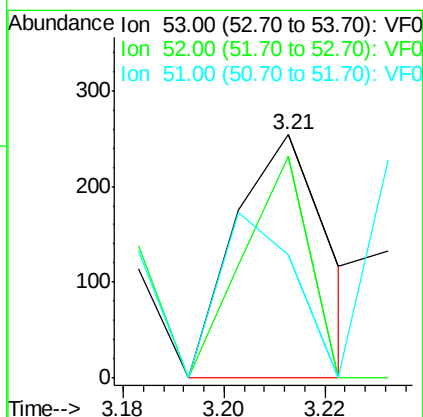
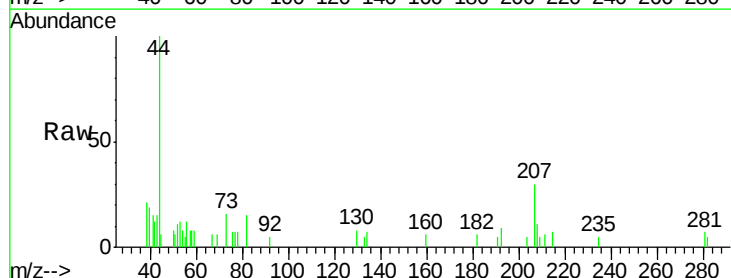
Tgt Ion: 53 Resp: 322

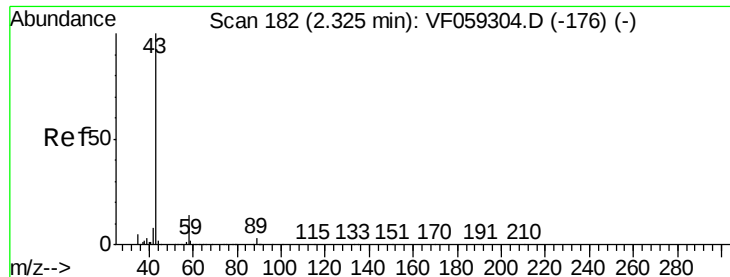
Ion Ratio Lower Upper

53 100

52 90.9 79.2 118.8

51 50.8 40.9 61.3

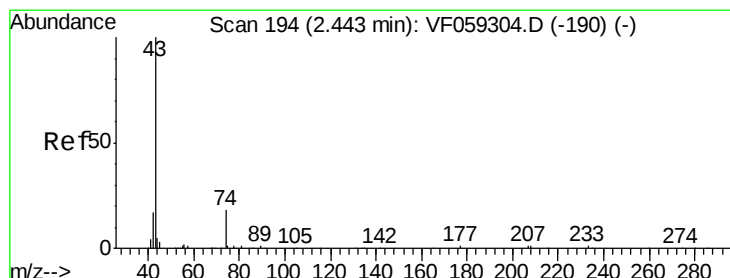
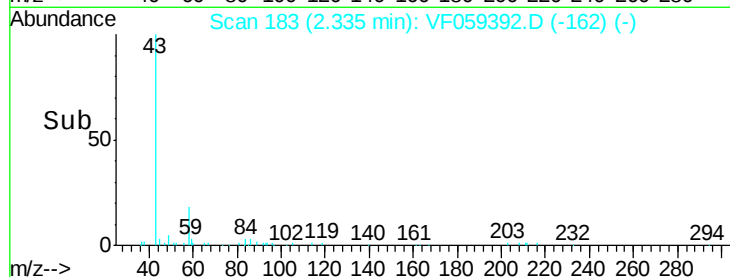
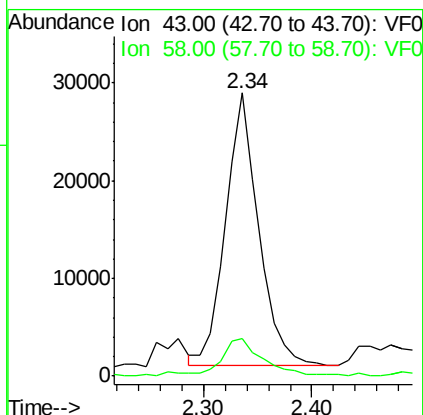
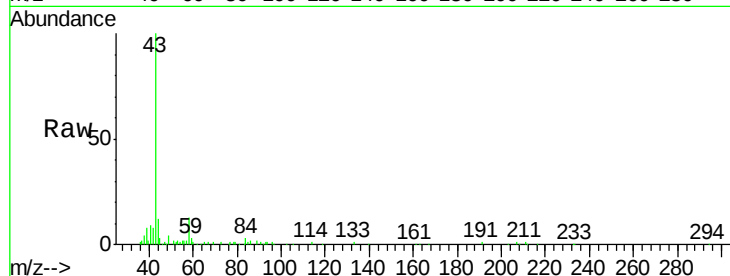




#16
Acetone
Concen: 127.01 ug/l
RT: 2.34 min Scan# 183
Delta R.T. 0.01 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

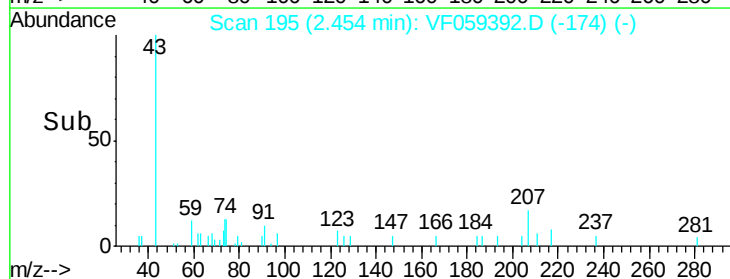
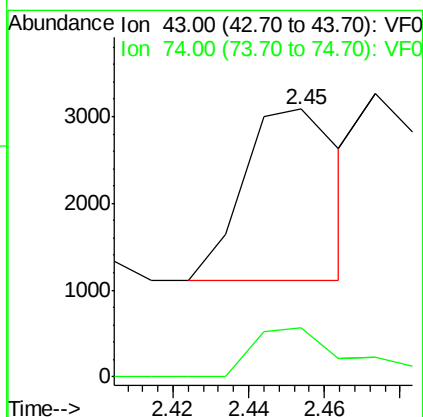
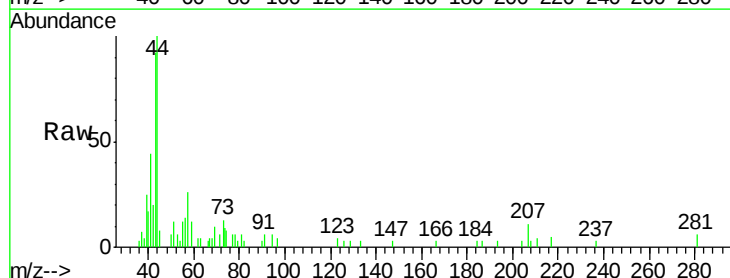
Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)

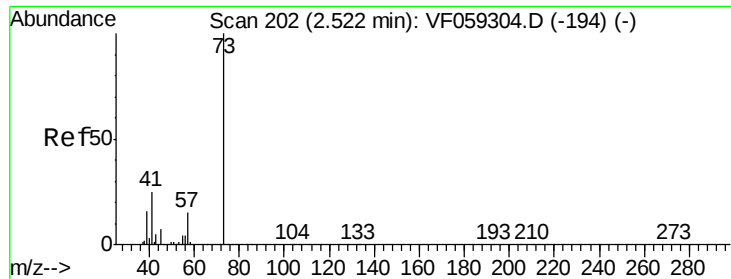
Tot Ion: 43 Resp: 59004
Ion Ratio Lower Upper
43 100
58 13.4 11.4 17.0



#18
Methyl Acetate
Concen: 3.27 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

Tgt Ion: 43 Resp: 3517
Ion Ratio Lower Upper
43 100
74 18.3 13.3 19.9

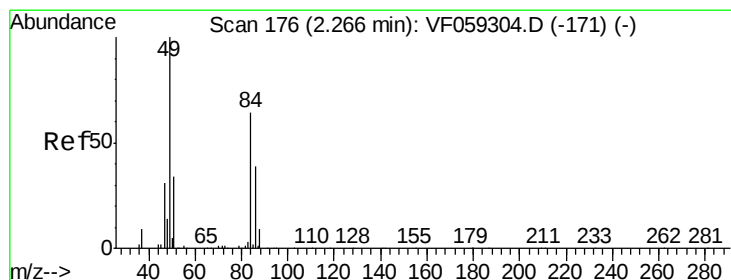
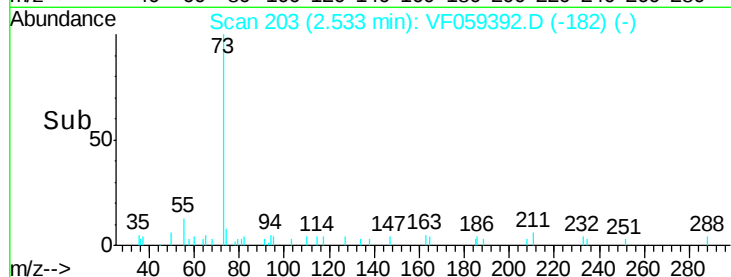
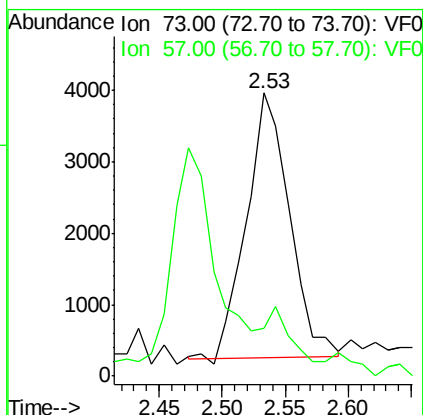
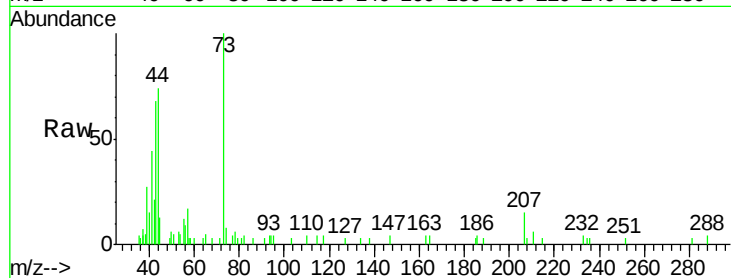




#19
Methvl tert-butvl Ether
Concen: 2.89 ug/l
RT: 2.53 min Scan# 203
Delta R.T. 0.01 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

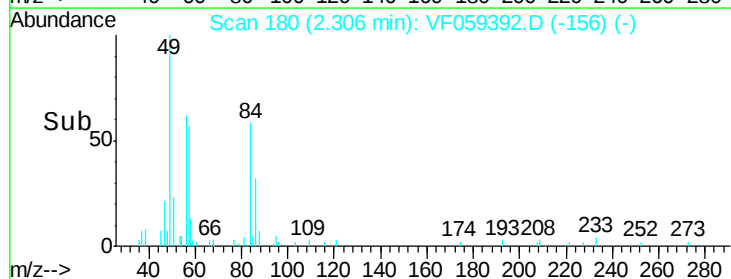
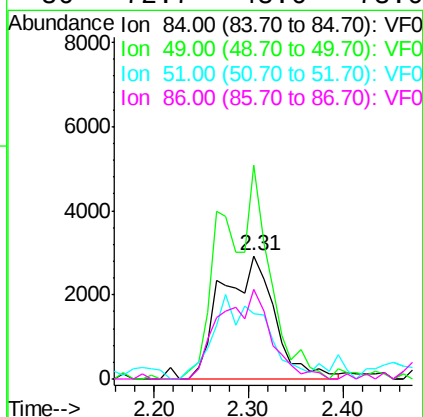
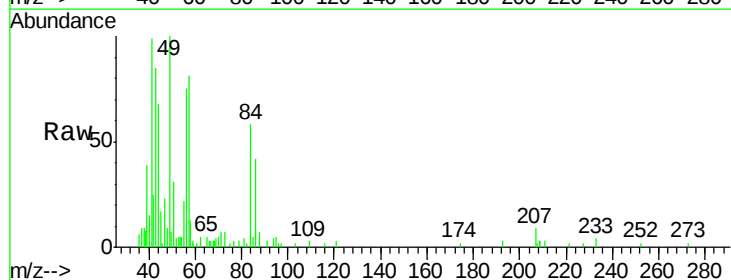
Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)

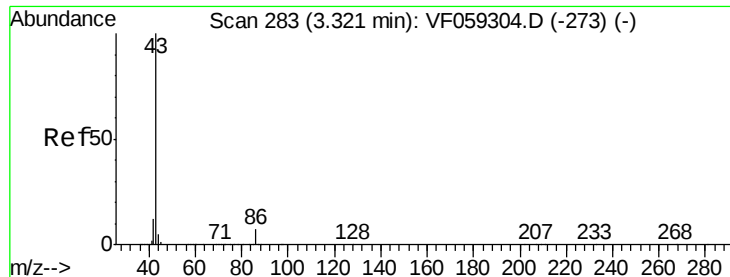
Tot Ion: 73 Resp: 8791
Ion Ratio Lower Upper
73 100
57 16.9 12.3 18.5



#20
Methylene Chloride
Concen: 4.64 ug/l
RT: 2.31 min Scan# 180
Delta R.T. 0.04 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

Tgt Ion: 84 Resp: 11386
Ion Ratio Lower Upper
84 100
49 173.5 126.5 189.7
51 53.5 42.9 64.3
86 72.7 48.6 73.0





#23

Vinyl Acetate

Concen: 1.05 ug/l

RT: 3.32 min Scan# 283

Delta R.T. 0.00 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

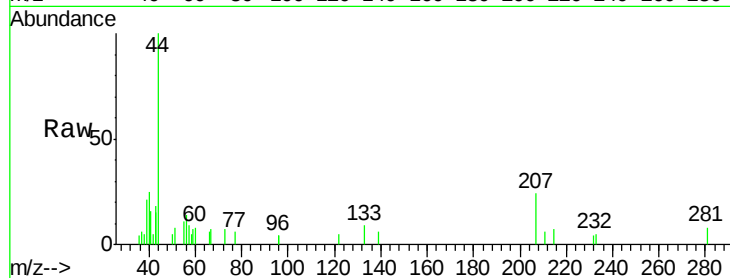
CF-6(2.0)

Tot Ion: 43 Resp: 2268

Ion Ratio Lower Upper

43 100

86 0.0 5.8 8.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.32

800

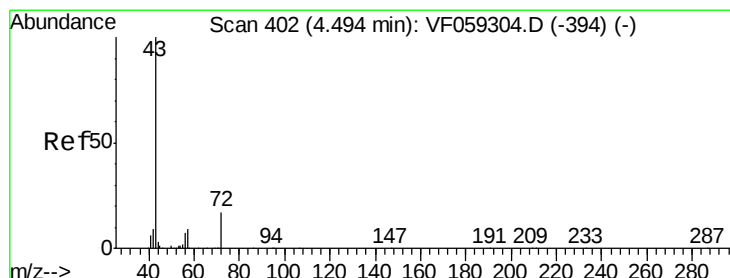
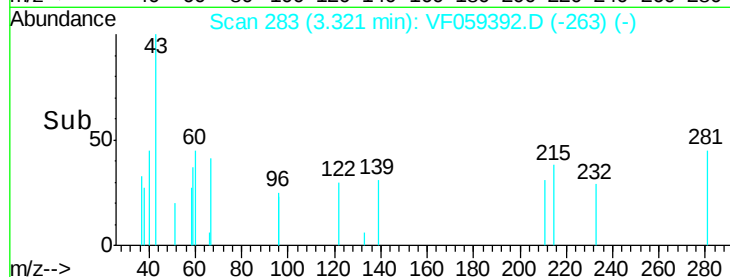
600

400

200

0

Time-->



#25

2-Butanone

Concen: 15.19 ug/l

RT: 4.50 min Scan# 403

Delta R.T. 0.01 min

Lab File: VF059392.D

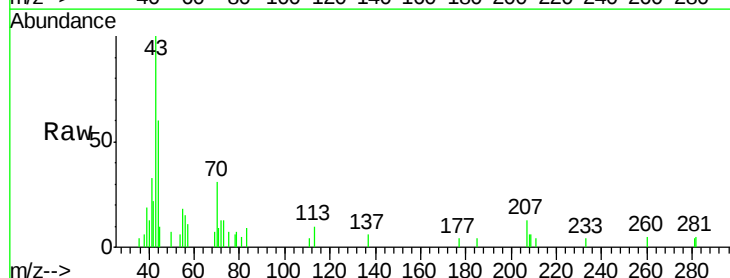
Acq: 2 Jul 2018 17:36

Tgt Ion: 43 Resp: 9618

Ion Ratio Lower Upper

43 100

72 12.8 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

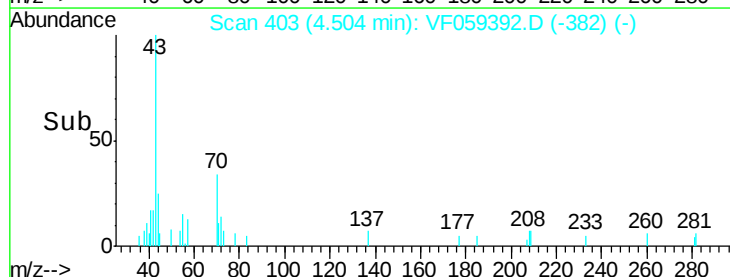
15000

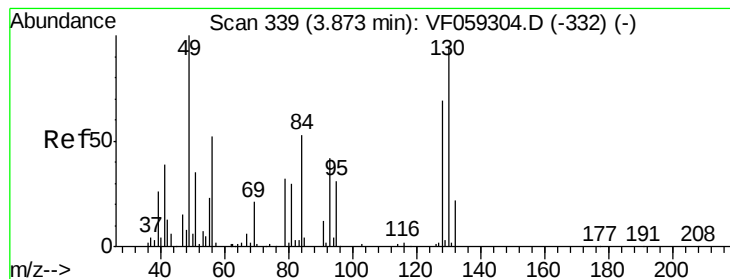
10000

5000

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 3.88 min Scan# 340

Delta R.T. 0.01 min

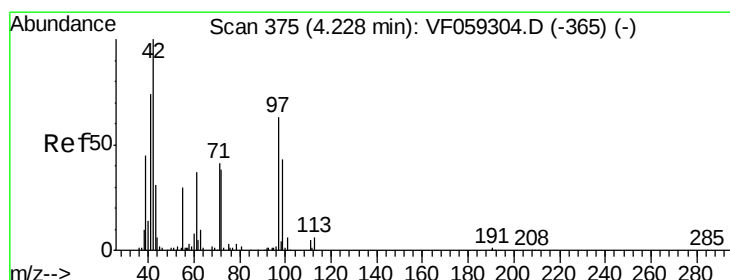
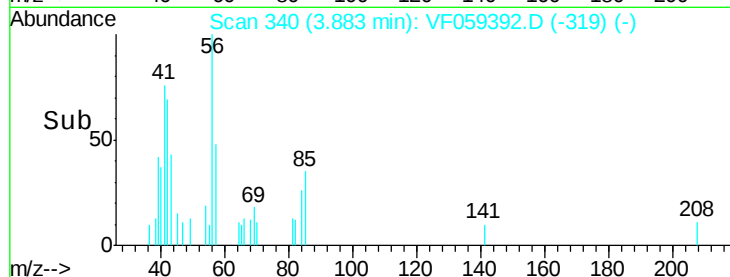
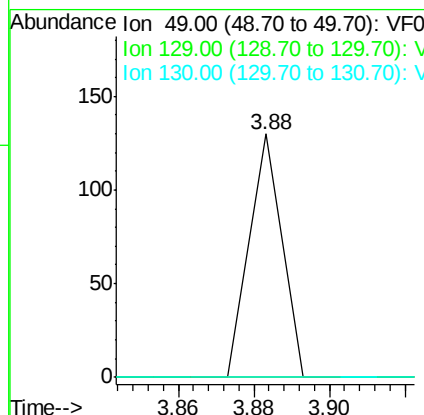
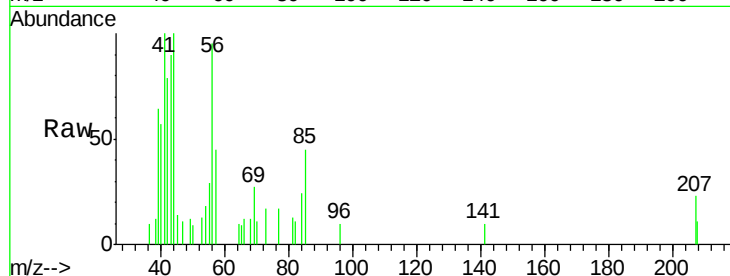
Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)

Tot Ion: 49 Resp: 77

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	6.4
130	0.0	75.1	112.7#



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.24 min Scan# 376

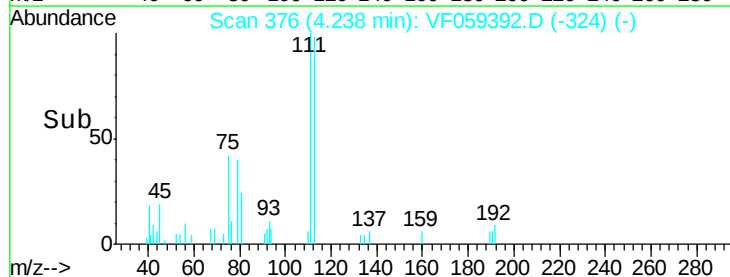
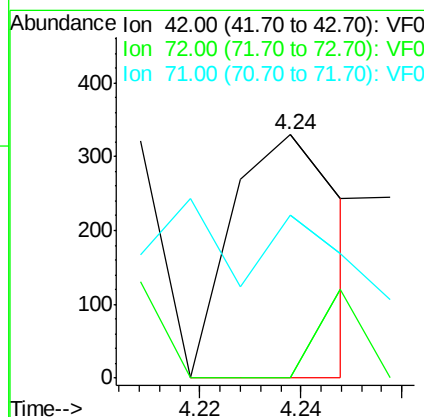
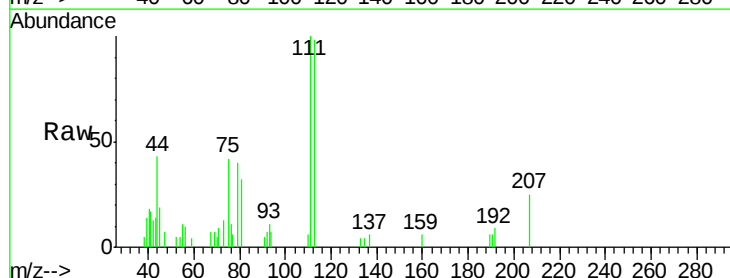
Delta R.T. 0.01 min

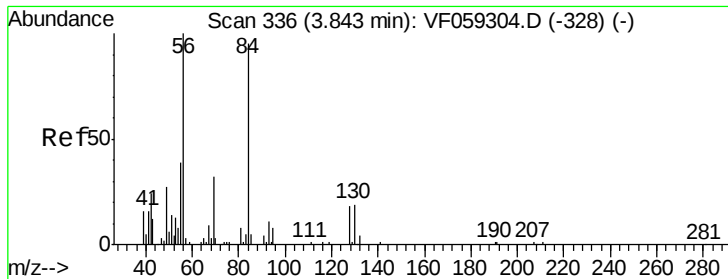
Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Tgt Ion: 42 Resp: 499

Ion	Ratio	Lower	Upper
42	100		
72	14.2	30.5	45.7#
71	0.0	32.5	48.7#

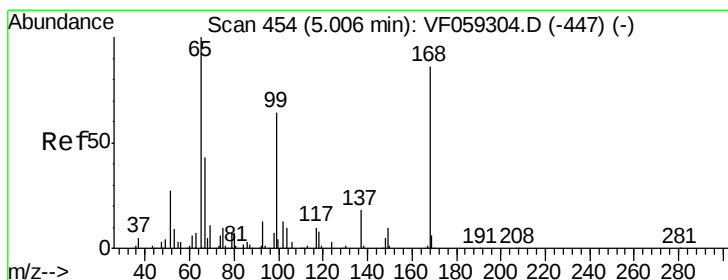
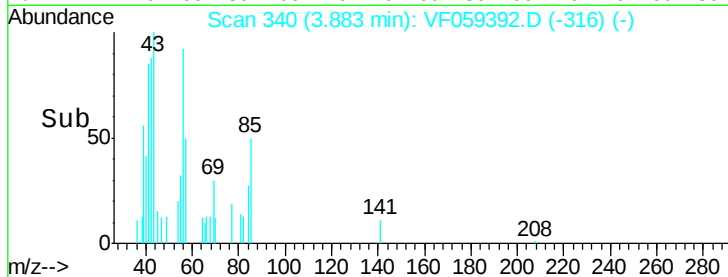
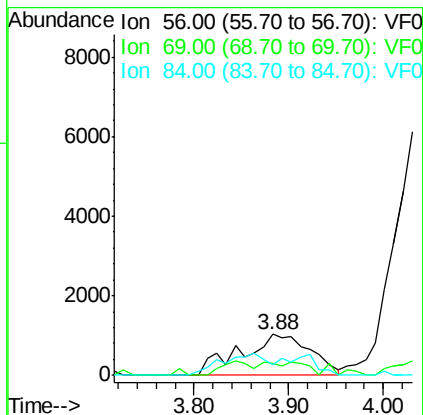
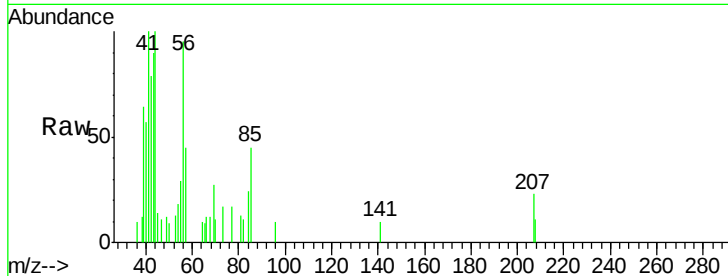




#31
Cvclohexane
Concen: 3.85 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.04 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

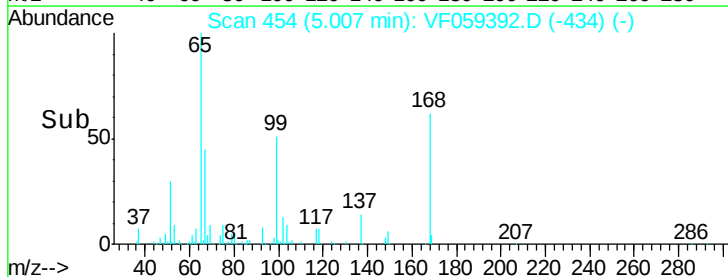
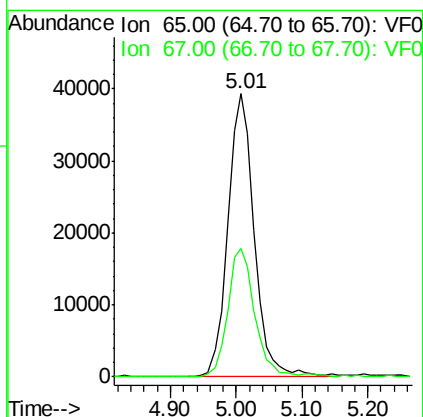
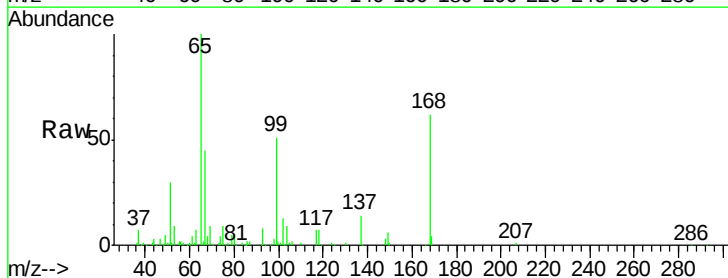
Instrument :
MSVOA_F
ClientSampleId :
CF-6(2.0)

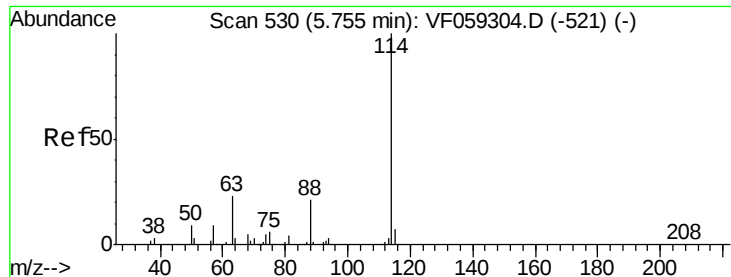
Tot Ion: 56 Resp: 5308
Ion Ratio Lower Upper
56 100
69 28.7 25.8 38.8
84 25.8 75.6 113.4#



#33
1,2-Dichloroethane-d4
Concen: 61.74 ug/l
RT: 5.01 min Scan# 454
Delta R.T. 0.00 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

Tgt Ion: 65 Resp: 110481
Ion Ratio Lower Upper
65 100
67 45.2 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.01 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

CF-6(2.0)

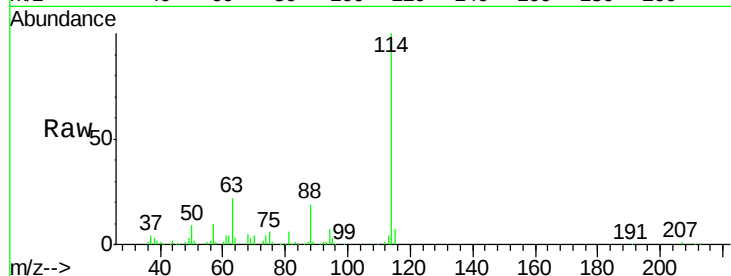
Tot Ion:114 Resp: 219248

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.8

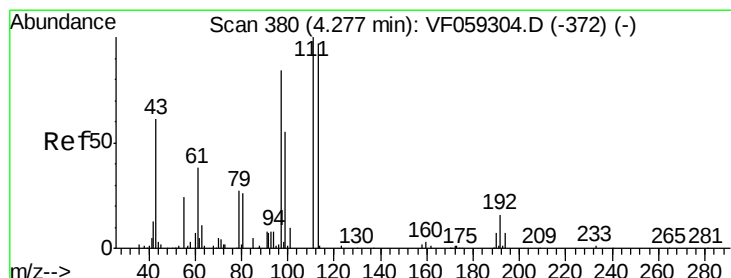
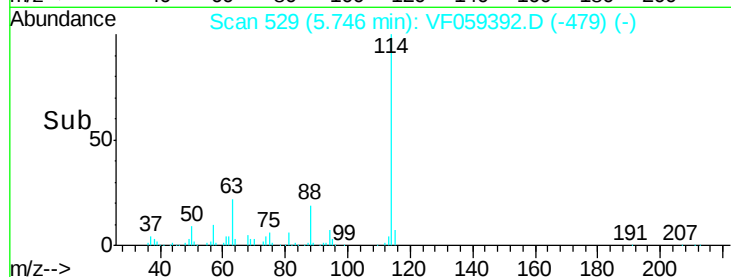
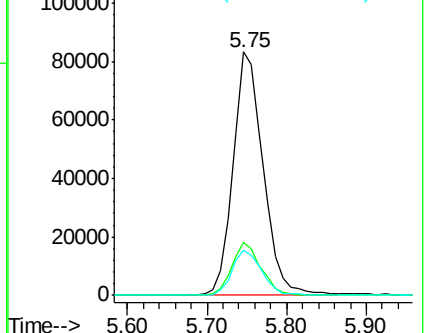
88 18.6 0.0 41.2



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: 58.18 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

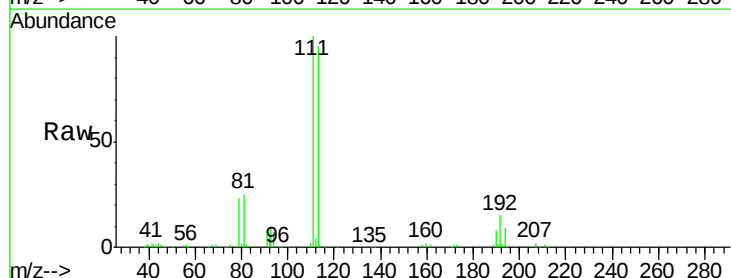
Tgt Ion:113 Resp: 93210

Ion Ratio Lower Upper

113 100

111 105.3 82.1 123.1

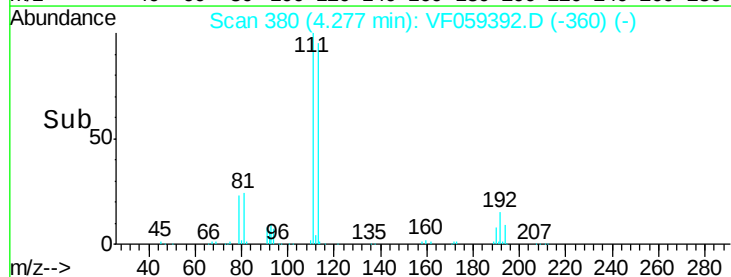
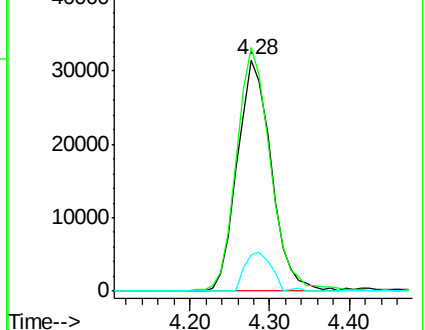
192 15.5 13.0 19.6

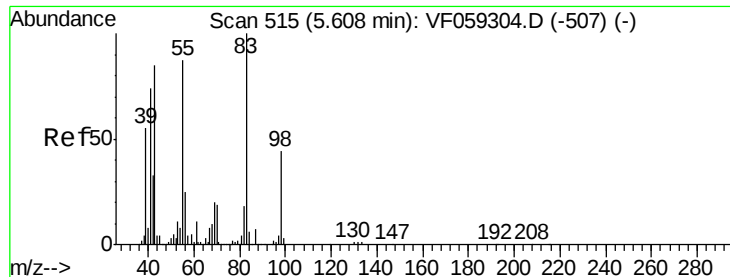


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

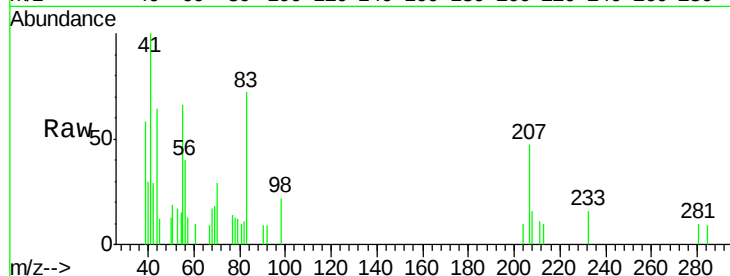




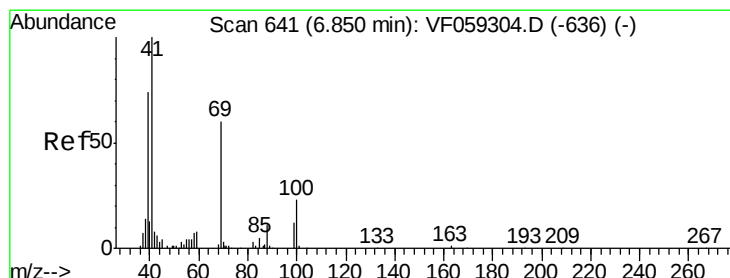
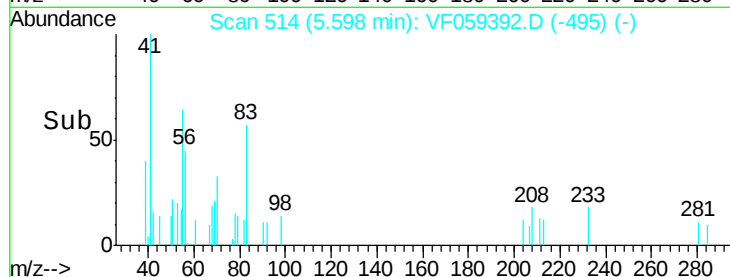
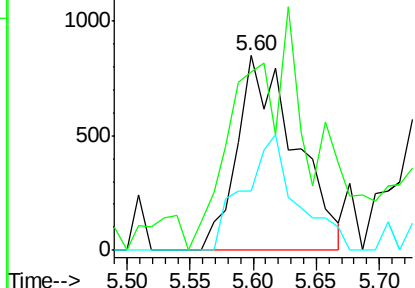
#39
Methylcyclohexane
Concen: 1.60 ug/l
RT: 5.60 min Scan# 514
Delta R.T. -0.01 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

Instrument :
MSVOA_F
ClientSampled :
CF-6(2.0)

Tot Ion: 83 Resp: 2719
Ion Ratio Lower Upper
83 100
55 91.6 69.2 103.8
98 30.5 35.0 52.6#

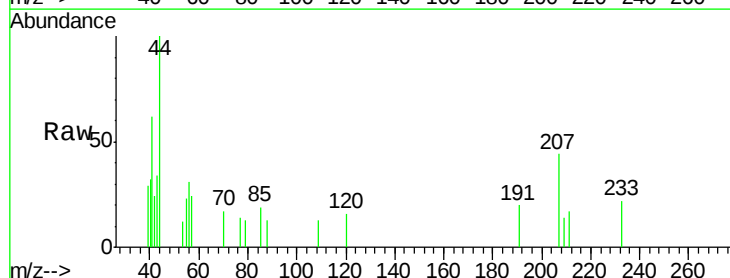


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

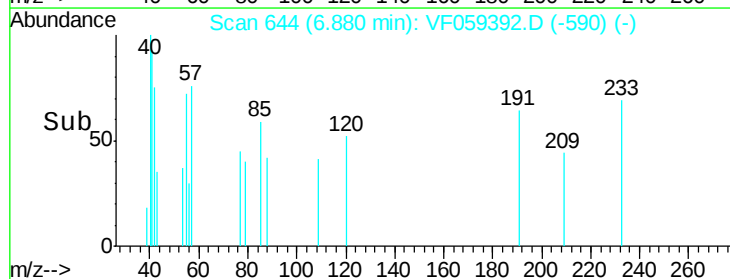
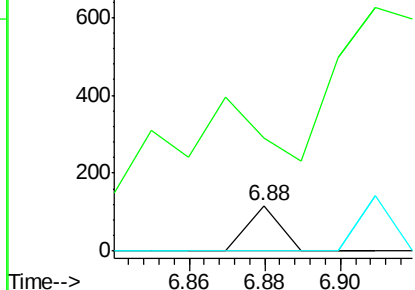


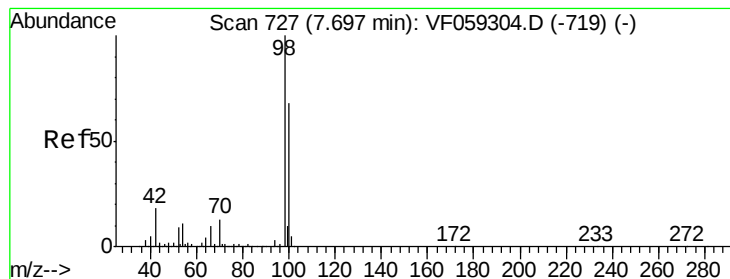
#49
1,4-Dioxane
Concen: Below Cal
RT: 6.88 min Scan# 644
Delta R.T. 0.03 min
Lab File: VF059392.D
Acq: 2 Jul 2018 17:36

Tgt Ion: 88 Resp: 69
Ion Ratio Lower Upper
88 100
43 250.9 50.6 75.8#
58 0.0 46.6 69.8#



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: 30.54 ug/l

RT: 7.70 min Scan# 727

Delta R.T. 0.00 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

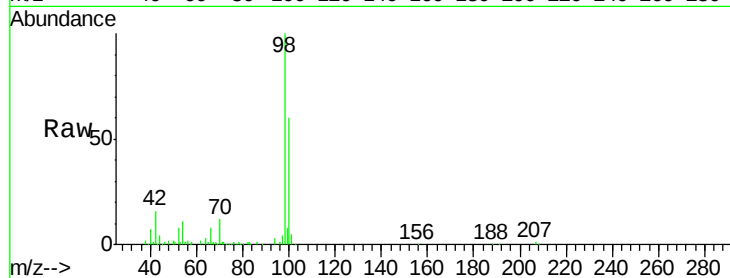
CF-6(2.0)

Tot Ion: 98 Resp: 121130

Ion Ratio Lower Upper

98 100

100 60.3 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.70

60000

50000

40000

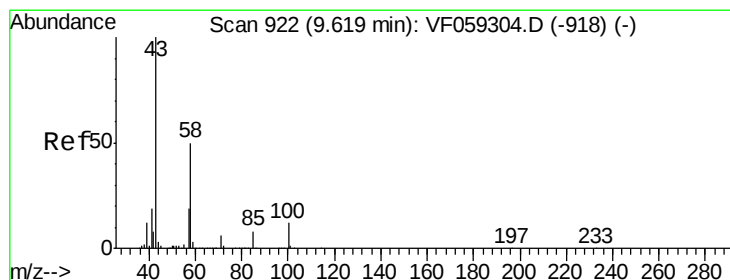
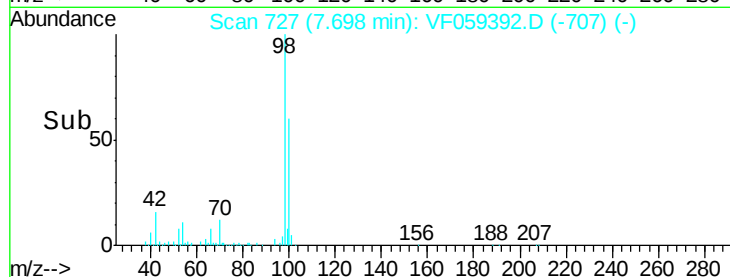
30000

20000

10000

0

Time-->



#59

2-Hexanone

Concen: Below Cal

RT: 9.62 min Scan# 922

Delta R.T. 0.00 min

Lab File: VF059392.D

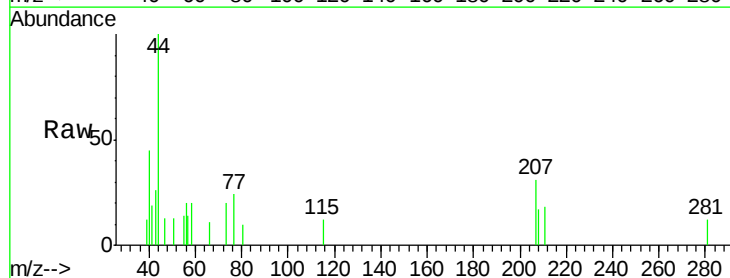
Acq: 2 Jul 2018 17:36

Tgt Ion: 43 Resp: 597

Ion Ratio Lower Upper

43 100

58 77.8 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.62

400

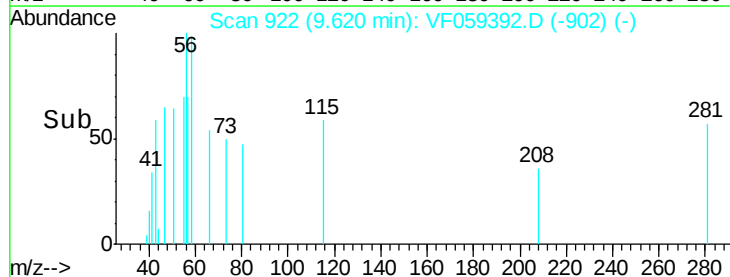
300

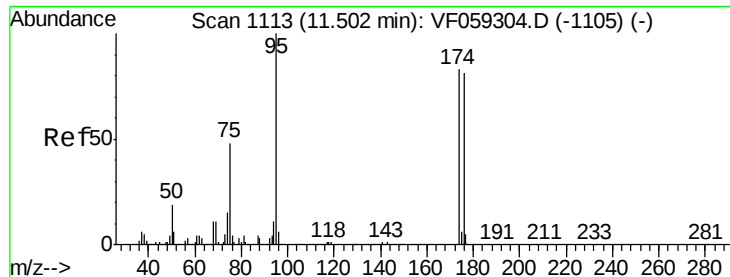
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: 44.98 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

CF-6(2.0)

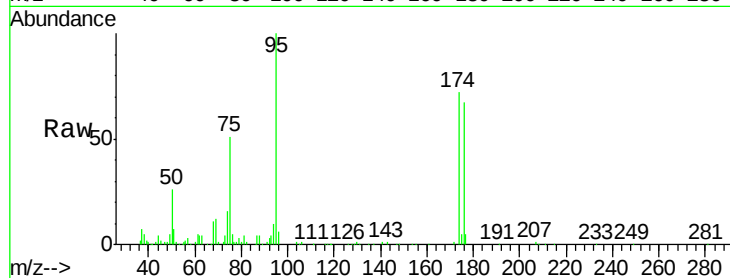
Tot Ion: 95 Resp: 100636

Ion Ratio Lower Upper

95 100

174 72.0 0.0 165.2

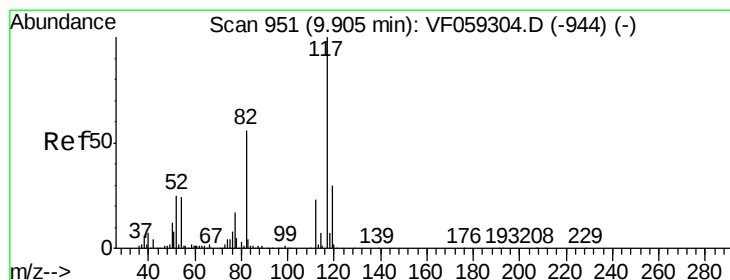
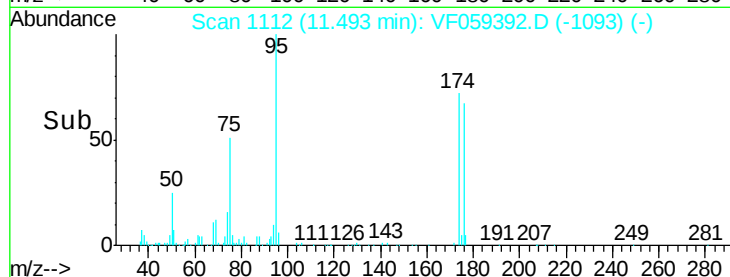
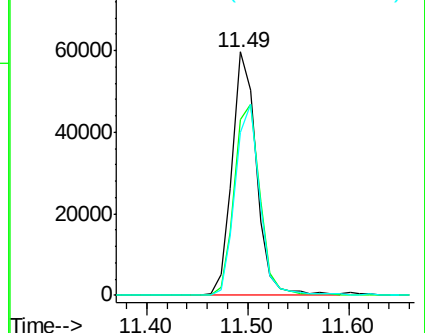
176 66.8 0.0 161.0



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: 50.00 ug/l

RT: 9.90 min Scan# 950

Delta R.T. -0.01 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

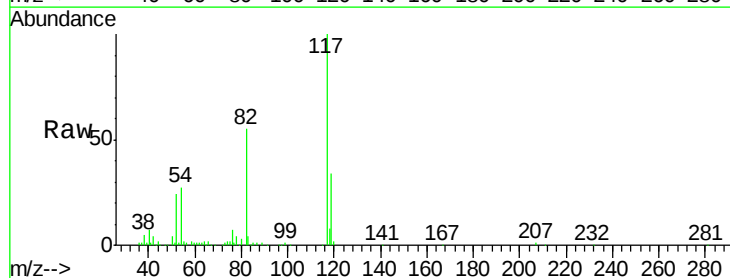
Tgt Ion: 117 Resp: 126639

Ion Ratio Lower Upper

117 100

82 55.0 44.6 66.8

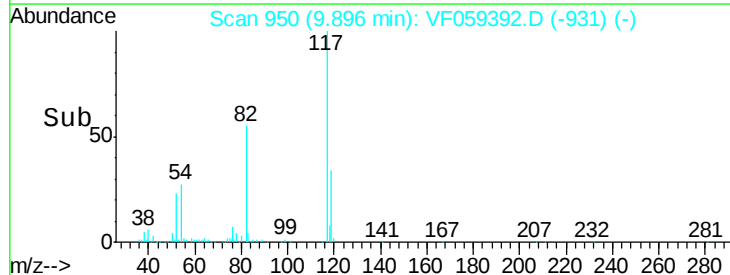
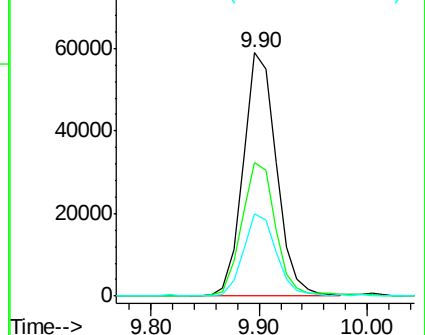
119 33.6 24.1 36.1

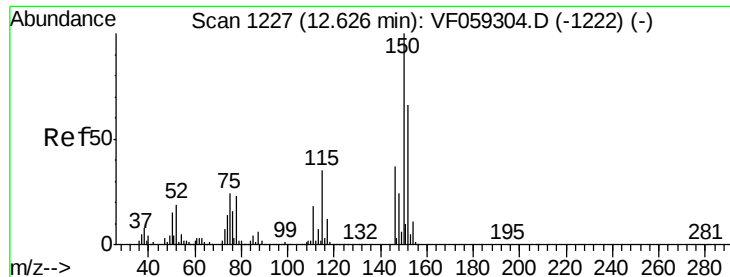


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

Instrument :

MSVOA_F

ClientSampleId :

CF-6(2.0)

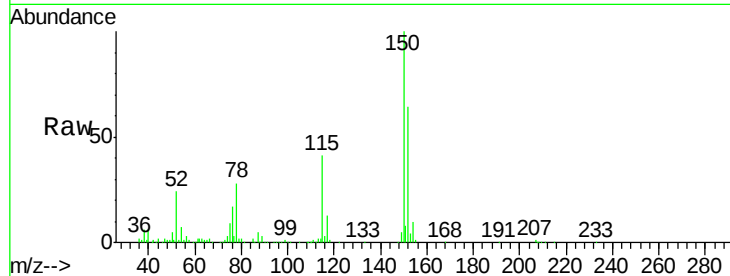
Tot Ion:152 Resp: 92489

Ion Ratio Lower Upper

152 100

115 63.6 27.1 81.3

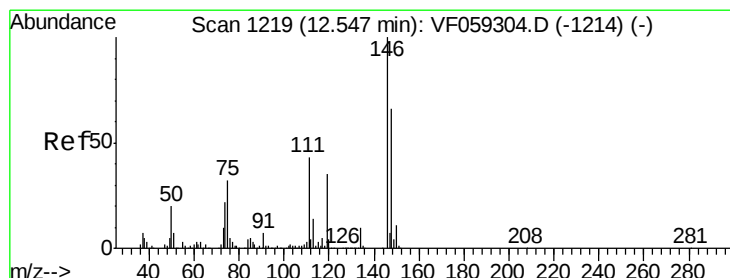
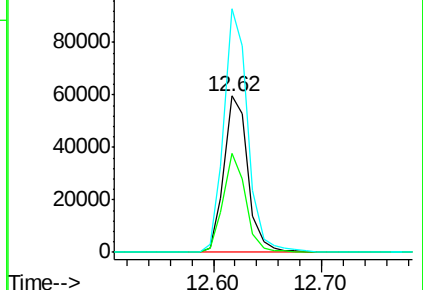
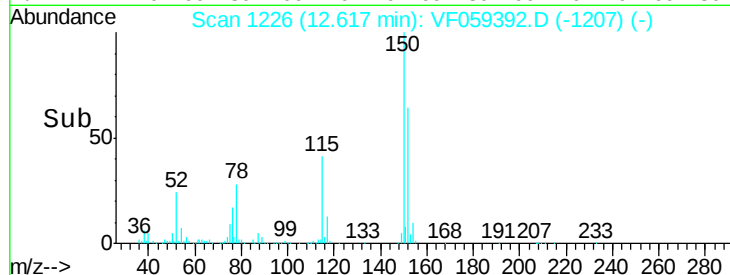
150 156.1 0.0 305.2



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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.56 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VF059392.D

Acq: 2 Jul 2018 17:36

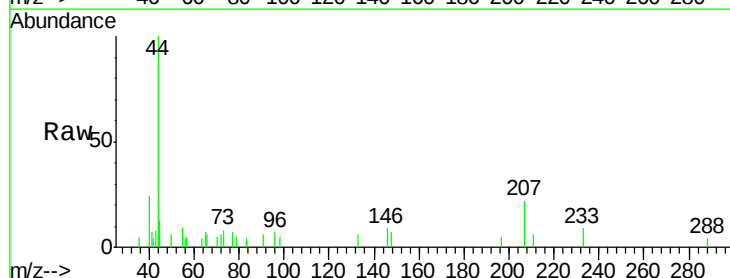
Tgt Ion:146 Resp: 333

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

148 74.0 32.8 98.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

