

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070218\
 Data File : VF059402.D
 Acq On : 2 Jul 2018 22:14
 Operator : VA/AP
 Sample : J3802-08RE
 Misc : 6.32g/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CF-8(5.0)

Quant Time: Jul 03 01:12:13 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	5.01	168	194703	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.74	114	293320	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.89	117	275670	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	172681	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	105369	41.89	ug/l	-0.02
Spiked Amount			Recovery	=	83.78%	
35) Dibromofluoromethane	4.26	113	90107	42.04	ug/l	-0.02
Spiked Amount			Recovery	=	84.08%	
50) Toluene-d8	7.68	98	211713	39.90	ug/l	-0.02
Spiked Amount			Recovery	=	79.80%	
62) 4-Bromofluorobenzene	11.50	95	109450	36.57	ug/l	0.00
Spiked Amount			Recovery	=	73.14%	

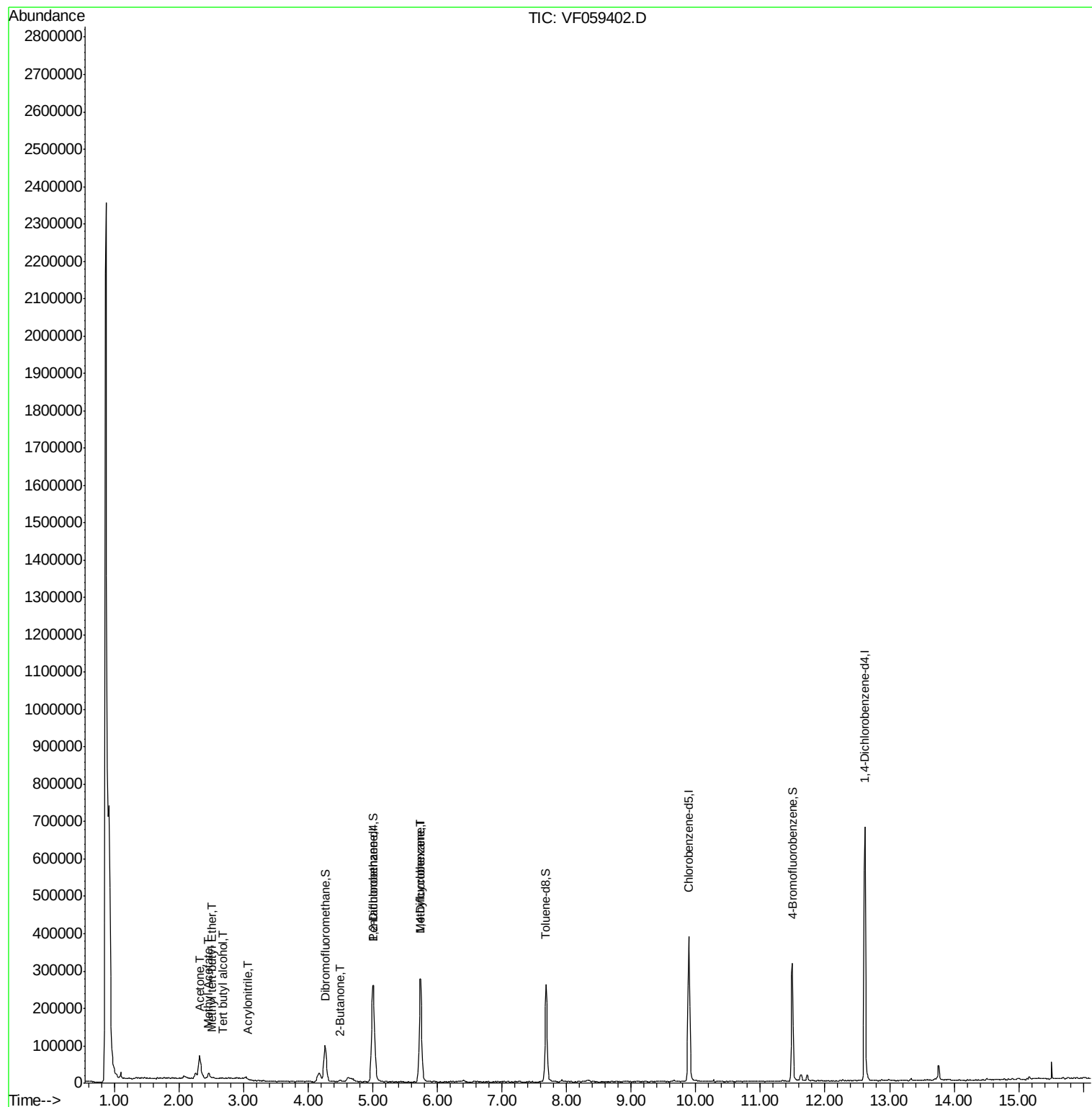
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.22	94	290	Below Cal		95
11) Tert butyl alcohol	2.67	59	1899	11.34	ug/l #	71
13) Acrolein	2.08	56	495	Below Cal	#	27
15) Acrylonitrile	3.07	53	367	1.24	ug/l #	91
16) Acetone	2.32	43	105813	164.96	ug/l	98
18) Methyl Acetate	2.47	43	4397	2.77	ug/l #	78
19) Methyl tert-butyl Ether	2.51	73	4630	1.08	ug/l #	18
20) Methylene Chloride	2.30	84	5824	Below Cal		90
25) 2-Butanone	4.50	43	9119	9.34	ug/l	97
28) Bromochloromethane	3.82	49	93	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	1166	Below Cal	#	52
37) Ethyl Acetate	4.29	43	233	Below Cal	#	26
39) Methylcyclohexane	5.73	83	3592	1.58	ug/l #	47
49) 1,4-Dioxane	6.61	88	69	Below Cal	#	1
59) 2-Hexanone	9.62	43	655	Below Cal	#	30
87) 1,3-Dichlorobenzene	12.53	146	88	Below Cal	#	71

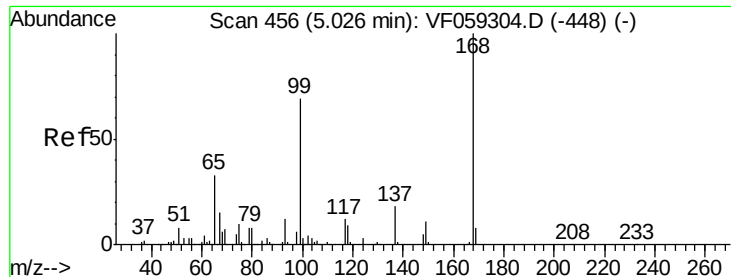
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

MSVOA_F

ClientSampleId :

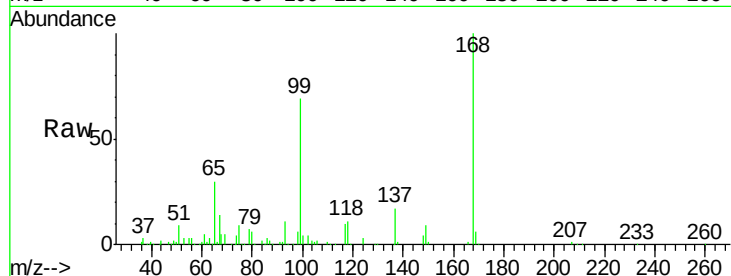
CF-8(5.0)

Tot Ion:168 Resp: 194703

Ion Ratio Lower Upper

168 100

99 68.9 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.01

60000

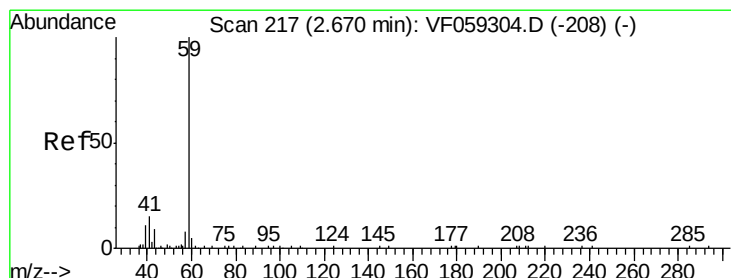
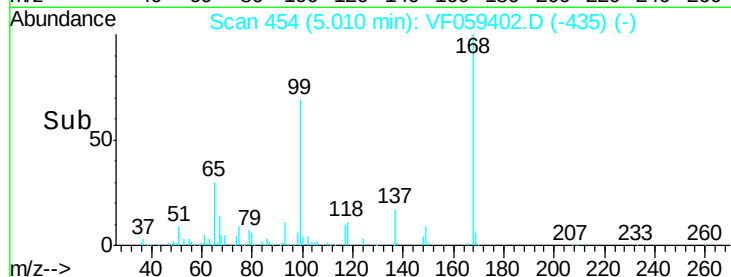
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 11.34 ug/l

RT: 2.67 min Scan# 217

Delta R.T. 0.00 min

Lab File: VF059402.D

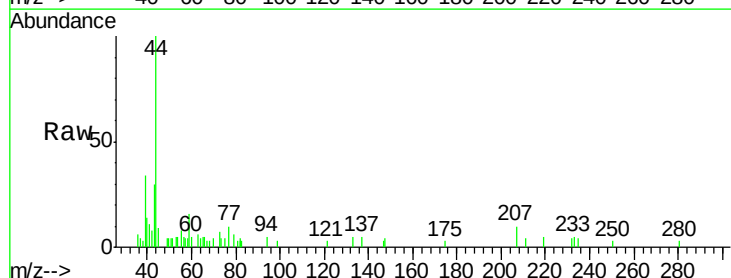
Acq: 2 Jul 2018 22:14

Tgt Ion: 59 Resp: 1899

Ion Ratio Lower Upper

59 100

57 25.3 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

800

600

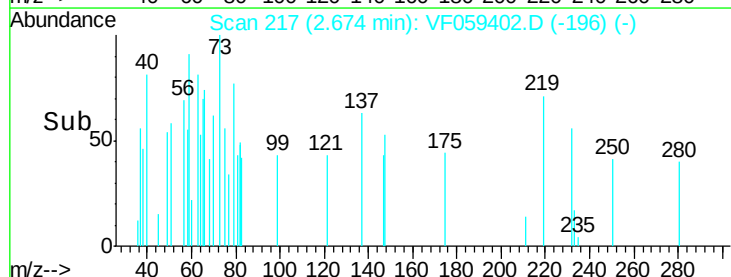
400

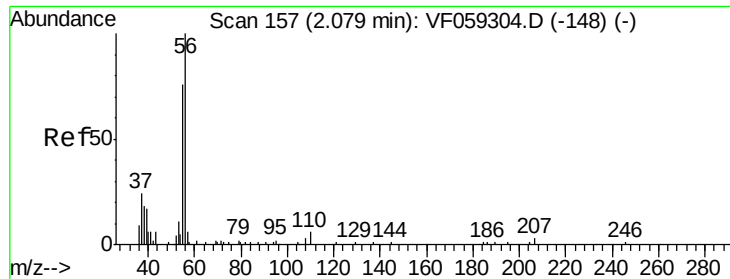
200

0

2.60 2.70

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.08 min Scan# 157

Delta R.T. 0.00 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

MSVOA_F

ClientSampled :

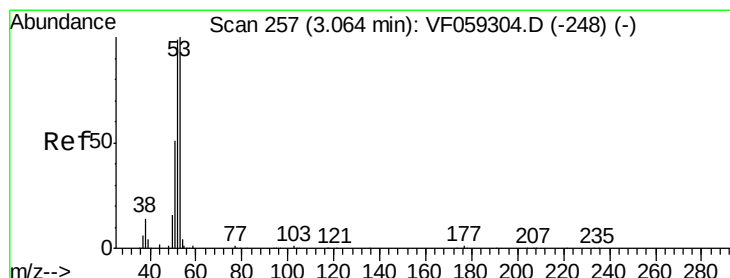
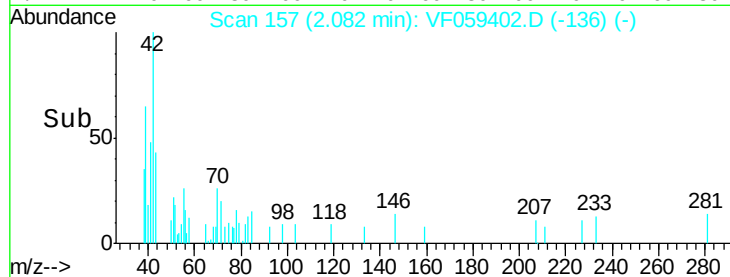
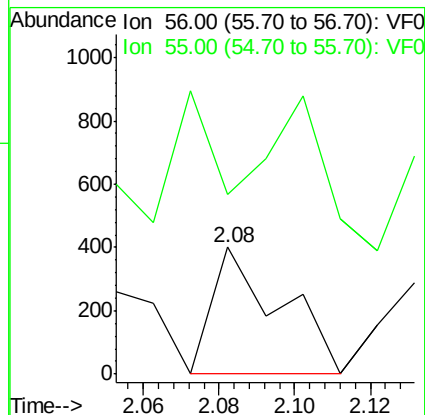
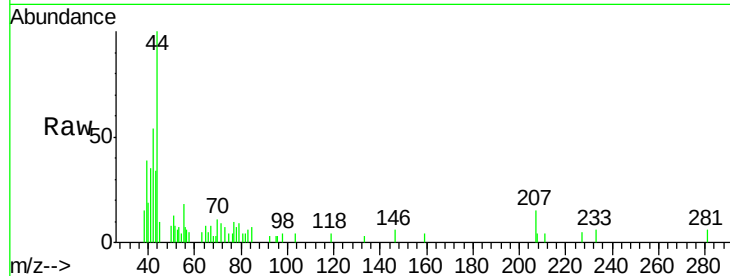
CF-8(5.0)

Tot Ion: 56 Resp: 495

Ion Ratio Lower Upper

56 100

55 141.4 62.4 93.6#



#15

Acrylonitrile

Concen: 1.24 ug/l

RT: 3.07 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

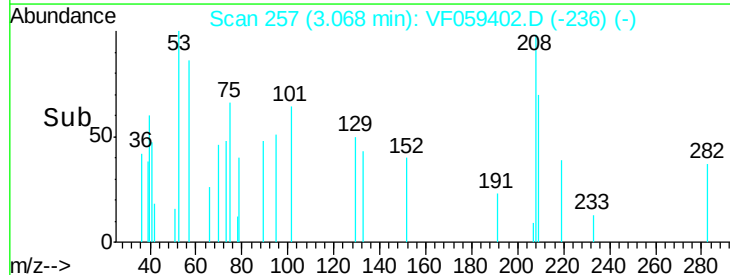
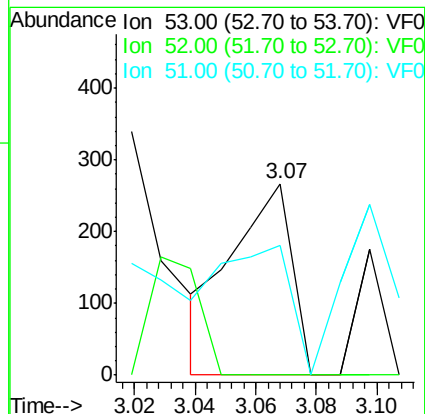
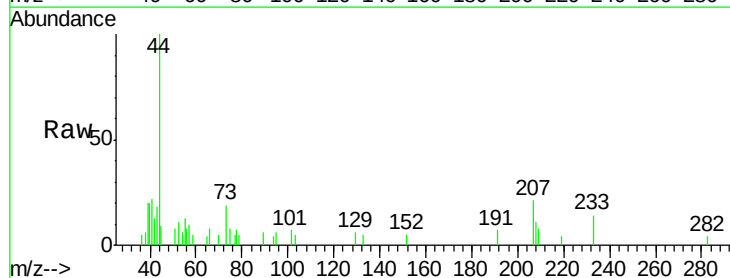
Tgt Ion: 53 Resp: 367

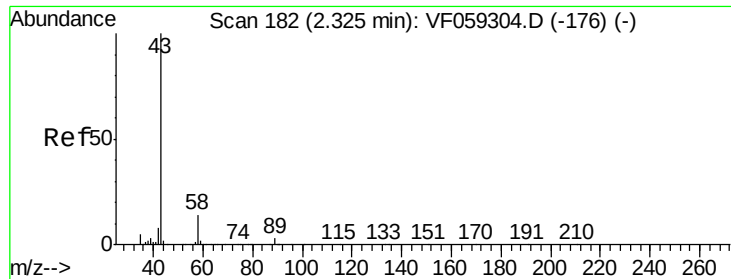
Ion Ratio Lower Upper

53 100

52 100.0 79.2 118.8

51 67.4 40.9 61.3#

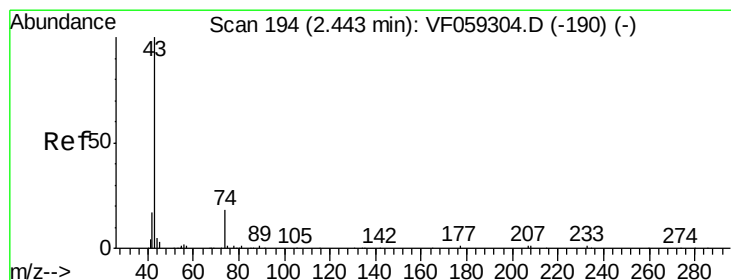
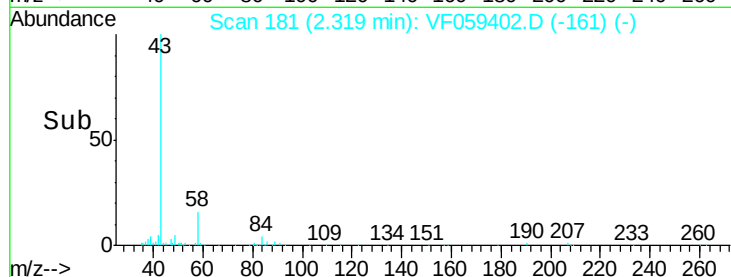
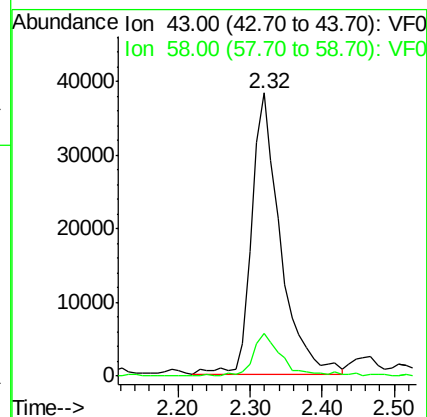
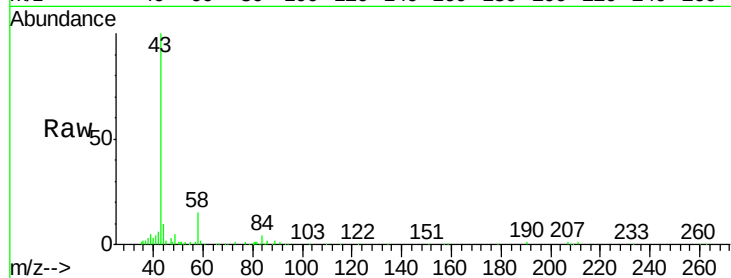




#16
Acetone
Concen: 164.96 ug/l
RT: 2.32 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

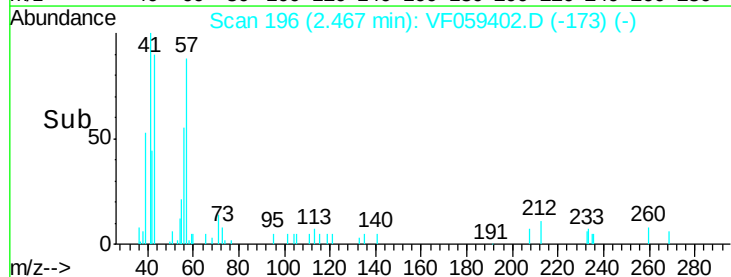
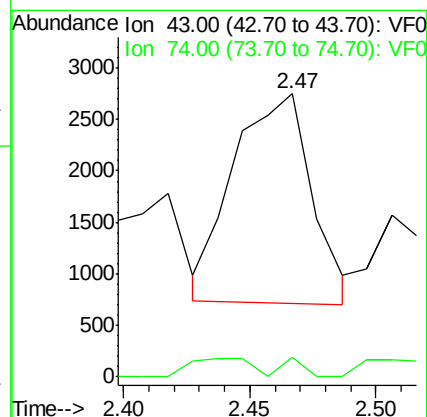
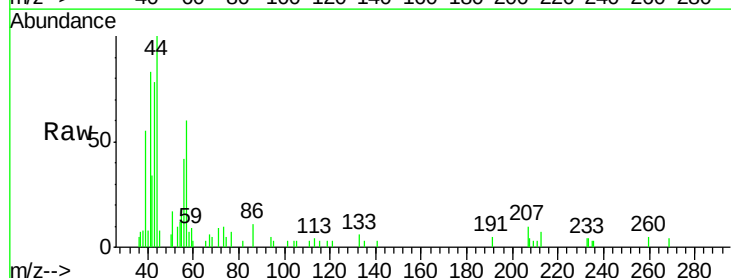
Instrument :
MSVOA_F
ClientSampleId :
CF-8(5.0)

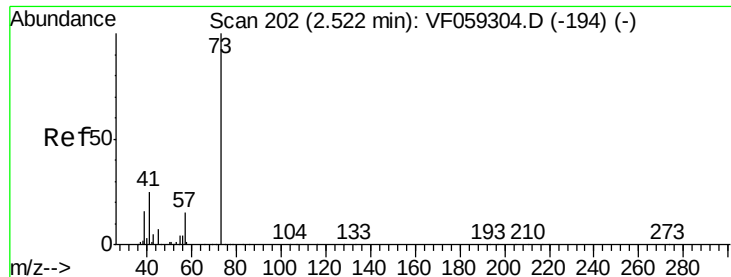
Tot Ion: 43 Resp: 105813
Ion Ratio Lower Upper
43 100
58 15.1 11.4 17.0



#18
Methyl Acetate
Concen: 2.77 ug/l
RT: 2.47 min Scan# 196
Delta R.T. 0.02 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

Tgt Ion: 43 Resp: 4397
Ion Ratio Lower Upper
43 100
74 7.0 13.3 19.9#





#19

Methyl tert-butyl Ether

Concen: 1.08 ug/l

RT: 2.51 min Scan# 200

Delta R.T. -0.02 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

MSVOA_F

ClientSampleId :

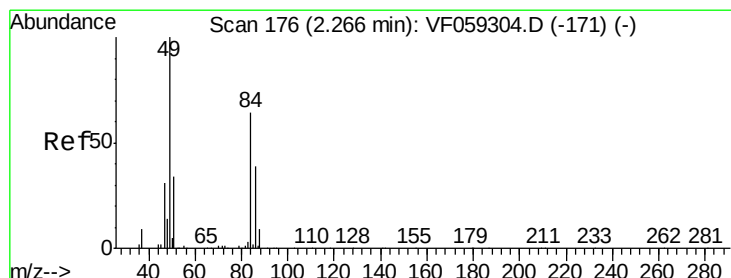
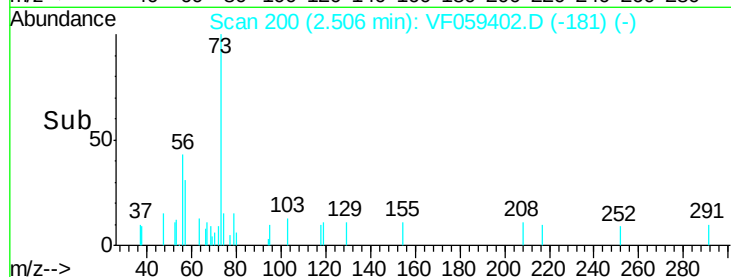
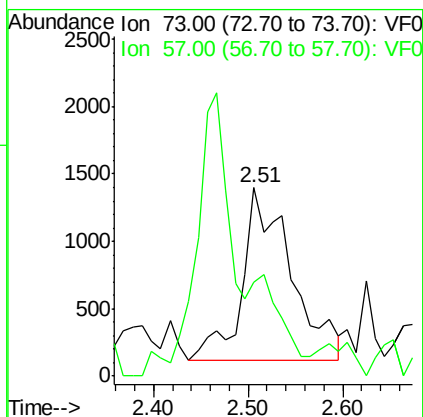
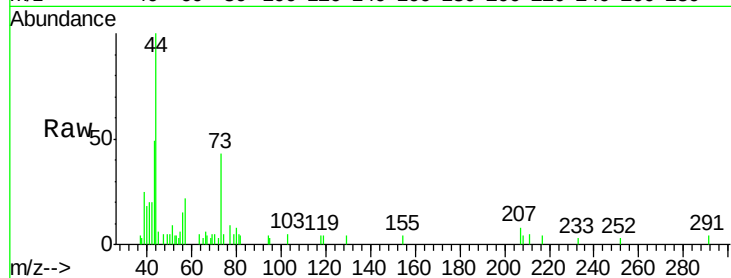
CF-8(5.0)

Tot Ion: 73 Resp: 4630

Ion Ratio Lower Upper

73 100

57 49.7 12.3 18.5#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.30 min Scan# 179

Delta R.T. 0.03 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Tgt Ion: 84 Resp: 5824

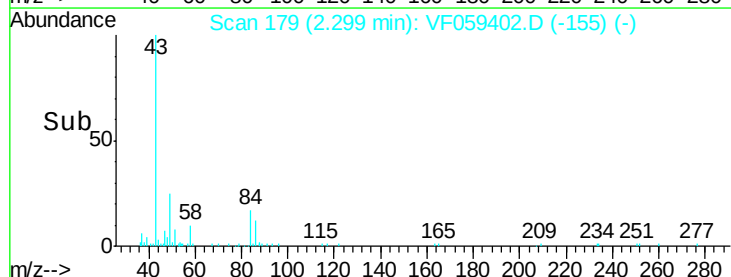
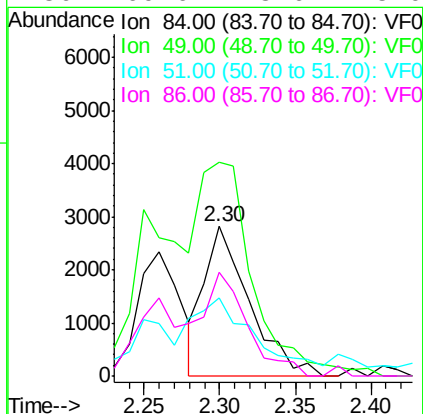
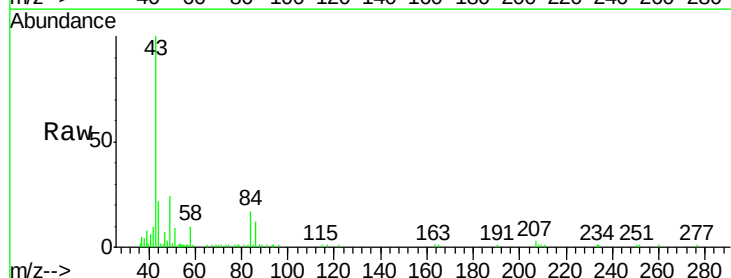
Ion Ratio Lower Upper

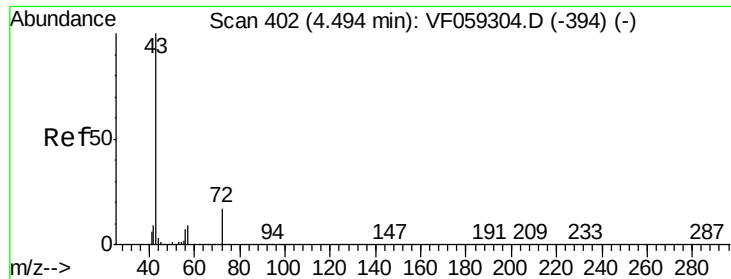
84 100

49 142.9 126.5 189.7

51 51.8 42.9 64.3

86 69.6 48.6 73.0





#25

2-Butanone

Concen: 9.34 ug/l

RT: 4.50 min Scan# 402

Delta R.T. 0.00 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

MSVOA_F

ClientSampled :

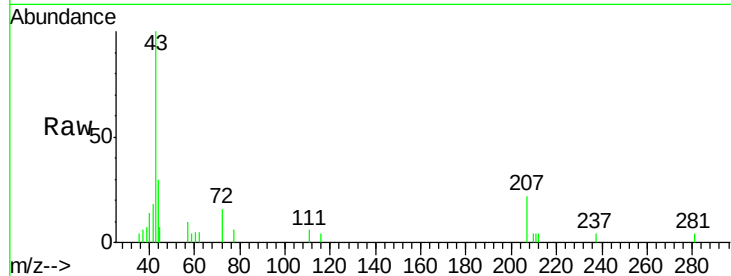
CF-8(5.0)

Tot Ion: 43 Resp: 9119

Ion Ratio Lower Upper

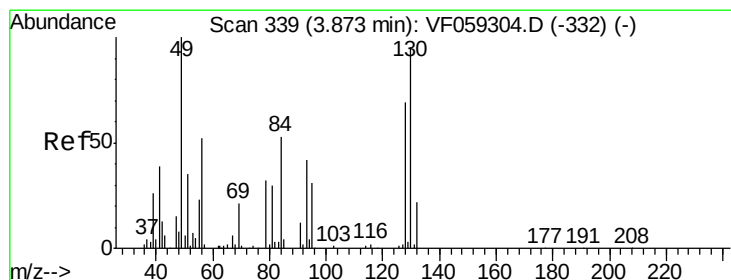
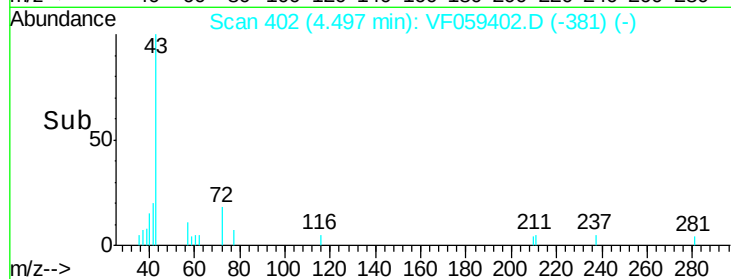
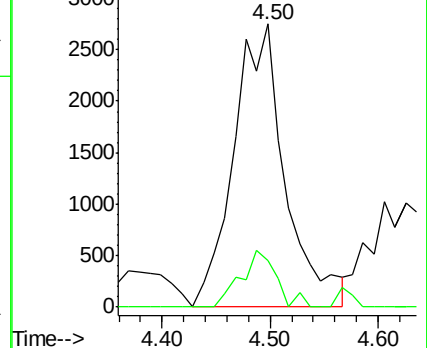
43 100

72 16.5 14.4 21.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#28

Bromochloromethane

Concen: Below Cal

RT: 3.82 min Scan# 333

Delta R.T. -0.05 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

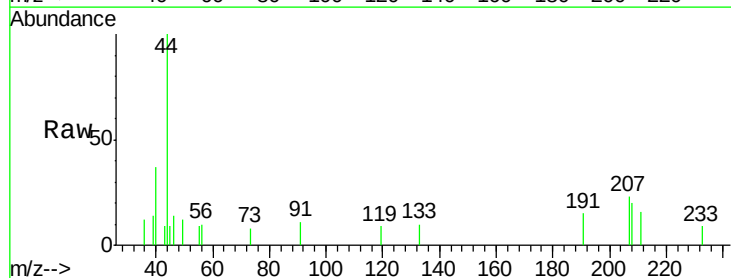
Tgt Ion: 49 Resp: 93

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

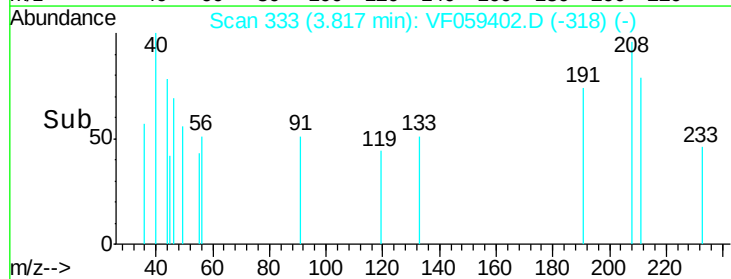
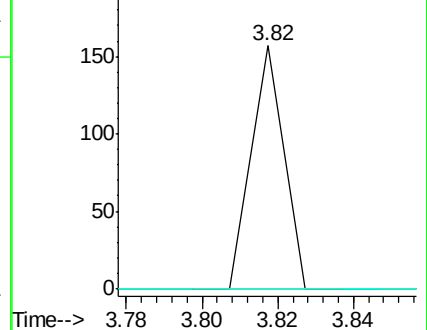
130 0.0 75.1 112.7#

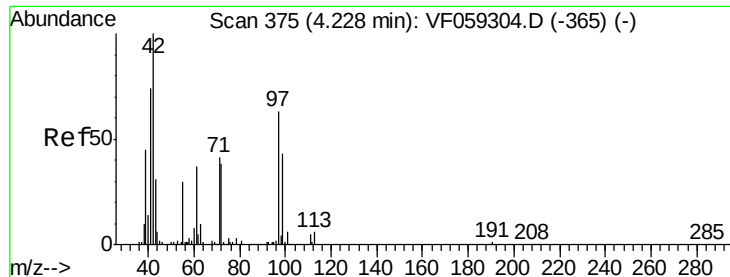


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.24 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

MSVOA_F

ClientSampled :

CF-8(5.0)

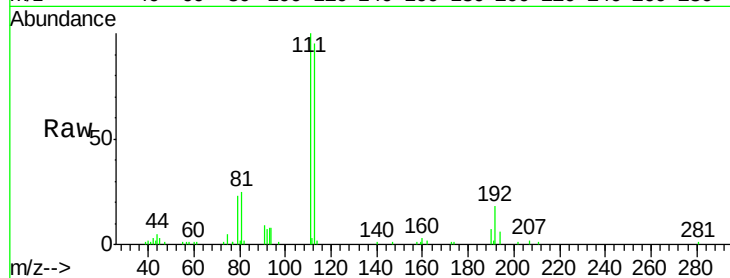
Tot Ion: 42 Resp: 1166

Ion Ratio Lower Upper

42 100

72 10.7 30.5 45.7#

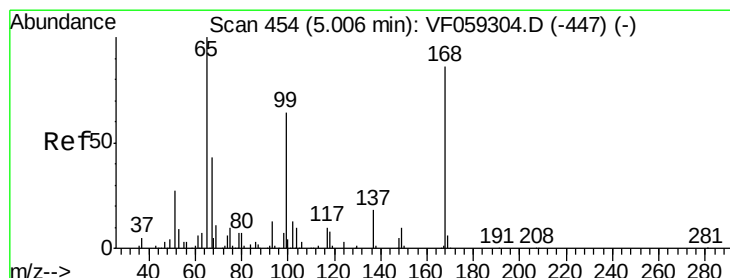
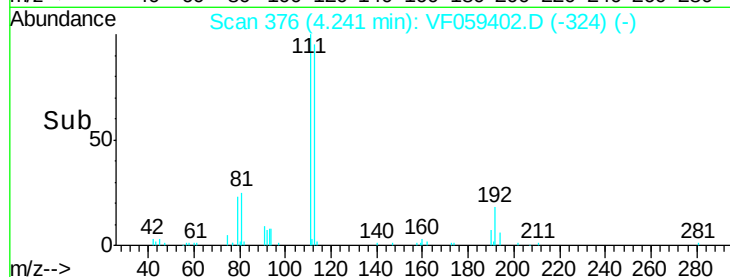
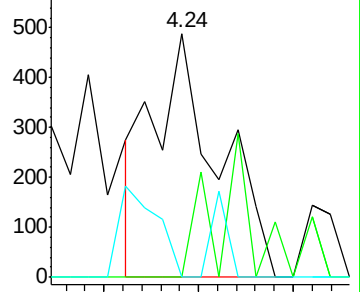
71 8.7 32.5 48.7#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 41.89 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059402.D

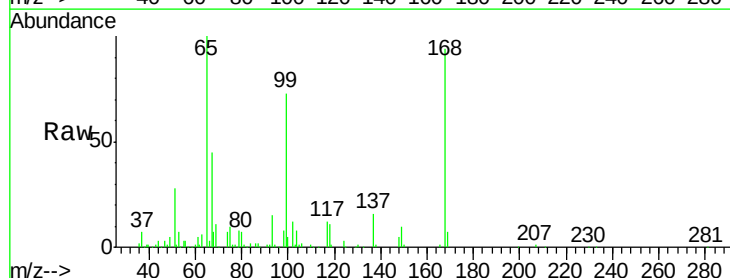
Acq: 2 Jul 2018 22:14

Tgt Ion: 65 Resp: 105369

Ion Ratio Lower Upper

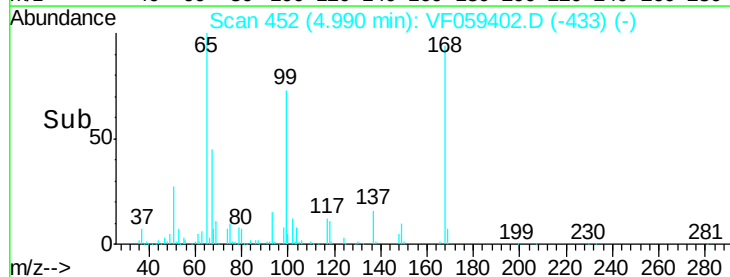
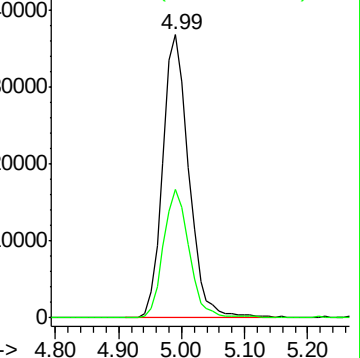
65 100

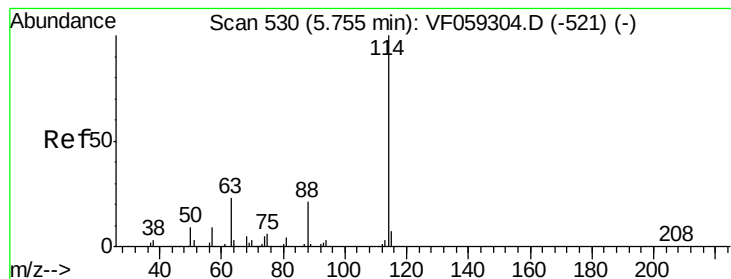
67 45.3 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.74 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

MSVOA_F

ClientSampleId :

CF-8(5.0)

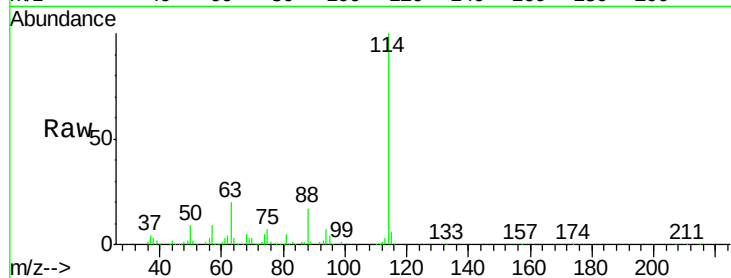
Tot Ion:114 Resp: 293320

Ion Ratio Lower Upper

114 100

63 19.5 0.0 45.8

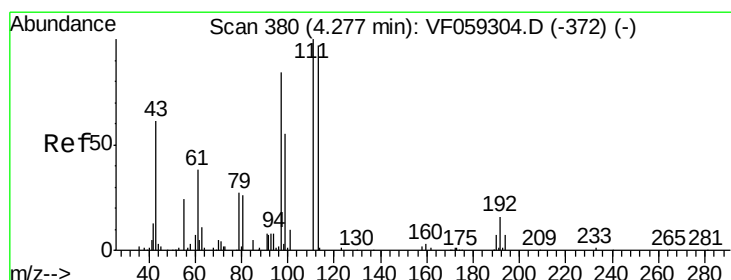
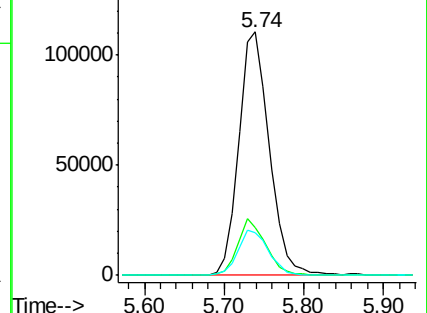
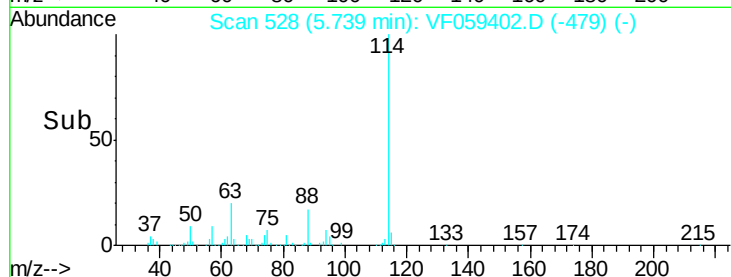
88 17.4 0.0 41.2



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: 42.04 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

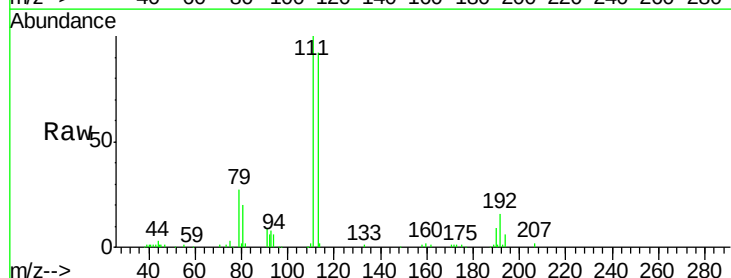
Tgt Ion:113 Resp: 90107

Ion Ratio Lower Upper

113 100

111 106.0 82.1 123.1

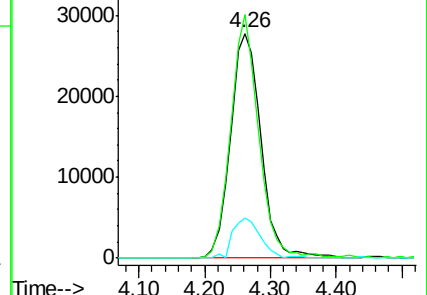
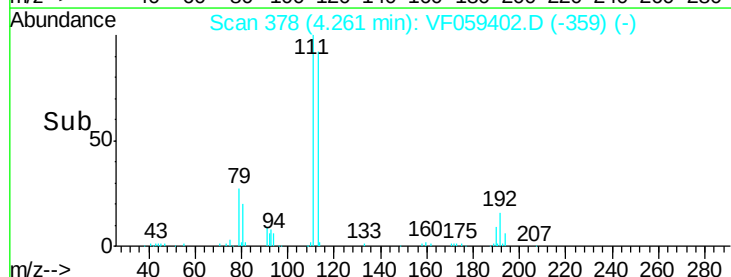
192 17.4 13.0 19.6

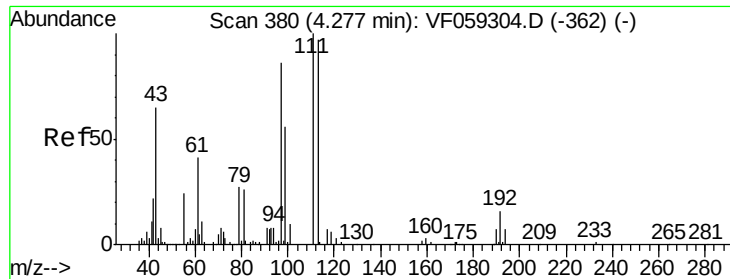


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 381

Delta R.T. 0.01 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

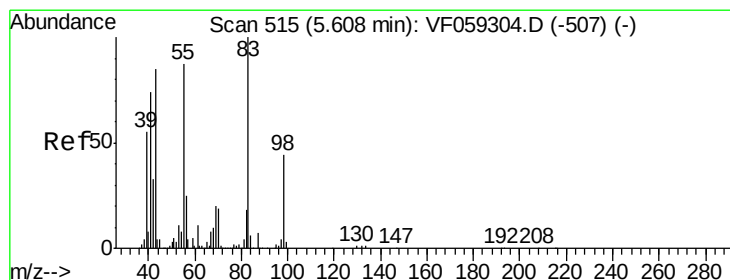
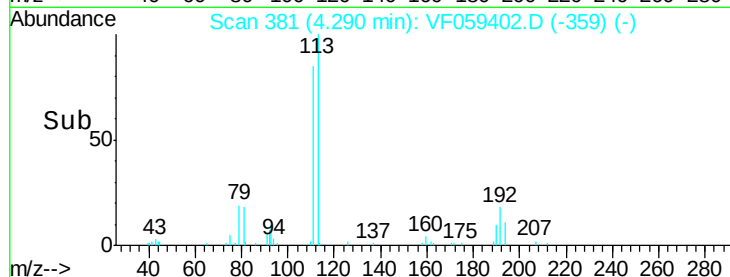
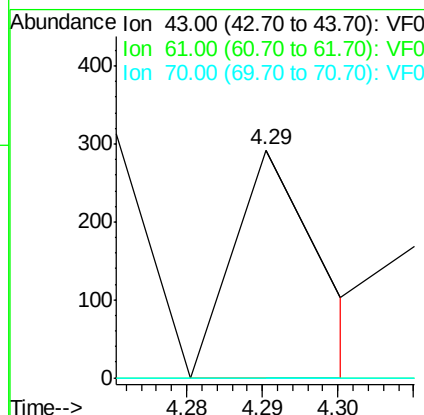
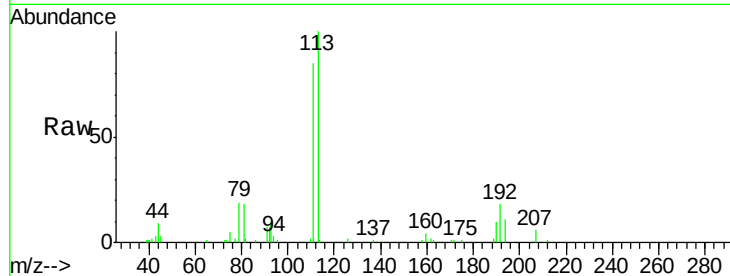
MSVOA_F

ClientSampled :

CF-8(5.0)

Tot Ion: 43 Resp: 233

Ion	Ratio	Lower	Upper
43	100		
61	0.0	50.1	75.1#
70	0.0	6.2	9.4#



#39

Methylcyclohexane

Concen: 1.58 ug/l

RT: 5.73 min Scan# 527

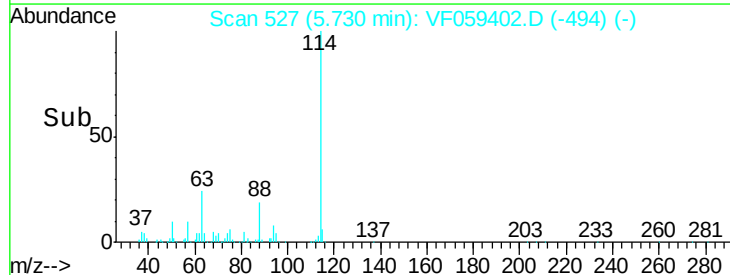
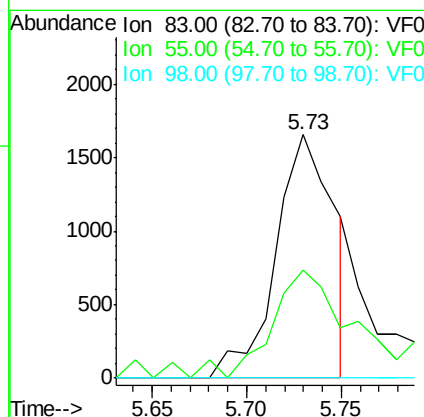
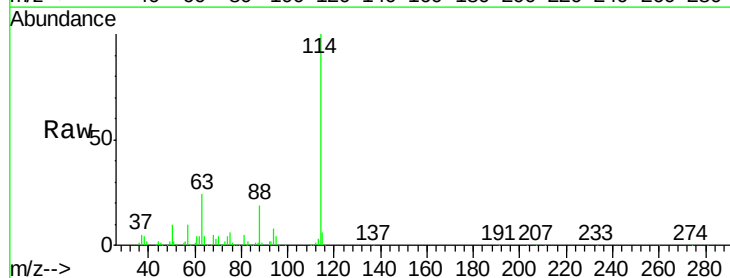
Delta R.T. 0.12 min

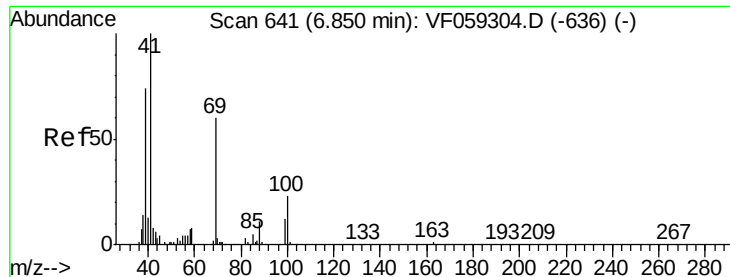
Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Tgt Ion: 83 Resp: 3592

Ion	Ratio	Lower	Upper
83	100		
55	44.5	69.2	103.8#
98	0.0	35.0	52.6#

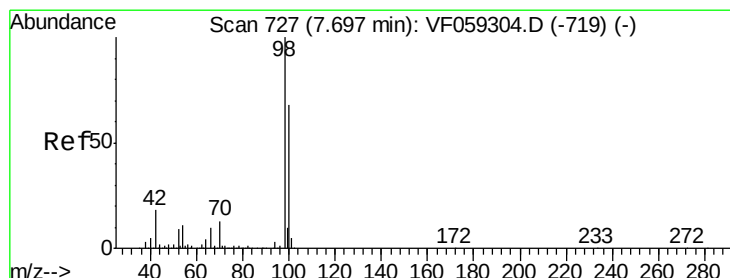
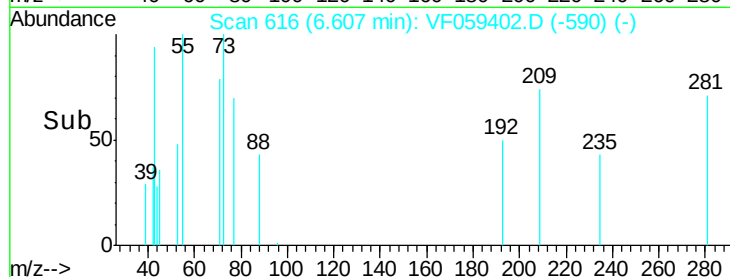
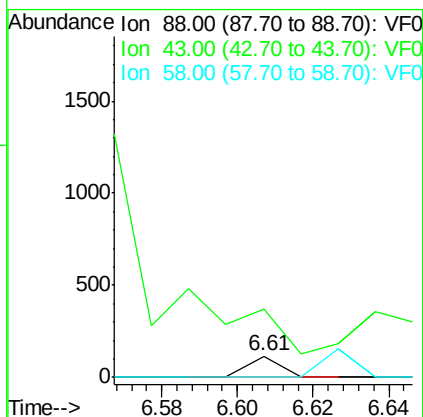
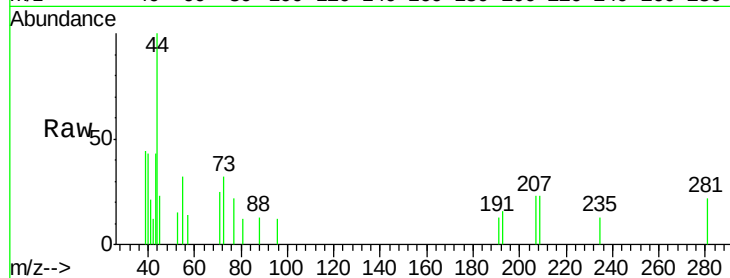




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.61 min Scan# 616
Delta R.T. -0.24 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

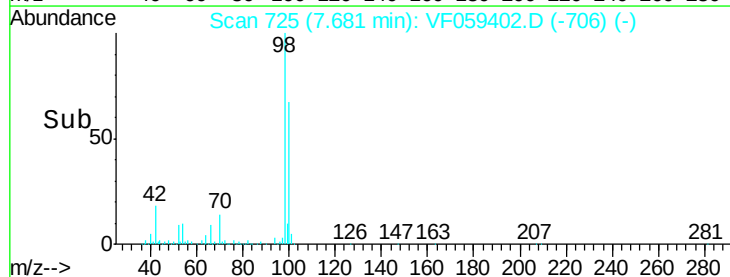
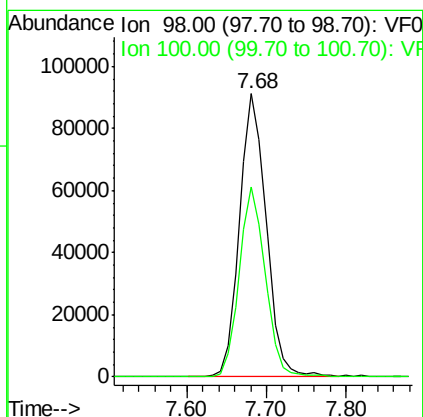
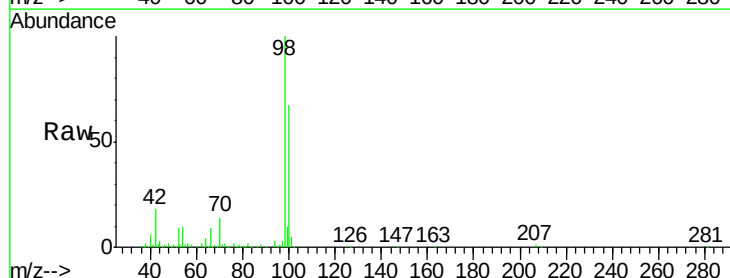
Instrument :
MSVOA_F
ClientSampleId :
CF-8(5.0)

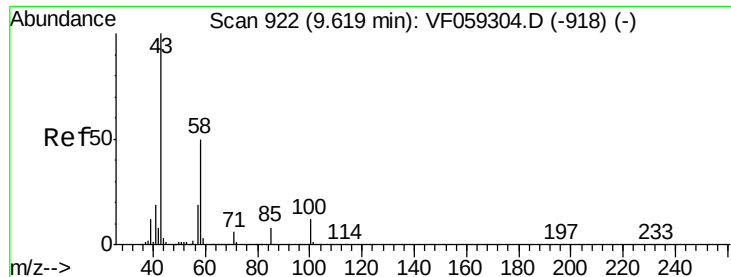
Tot Ion: 88 Resp: 69
Ion Ratio Lower Upper
88 100
43 316.4 50.6 75.8#
58 0.0 46.6 69.8#



#50
Toluene-d8
Concen: 39.90 ug/l
RT: 7.68 min Scan# 725
Delta R.T. -0.02 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

Tgt Ion: 98 Resp: 211713
Ion Ratio Lower Upper
98 100
100 67.0 54.6 82.0

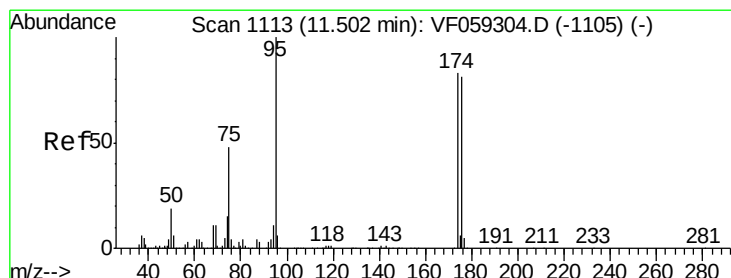
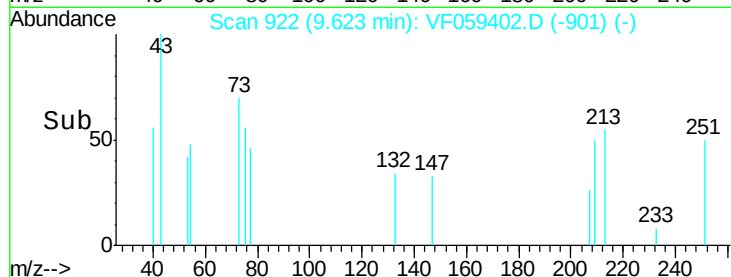
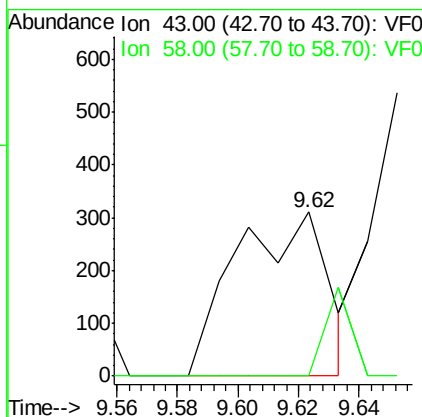
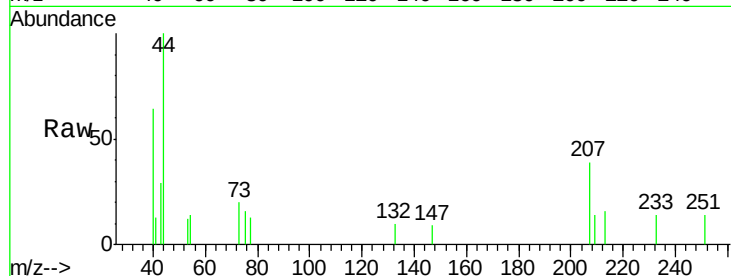




#59
2-Hexanone
Concen: Below Cal
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

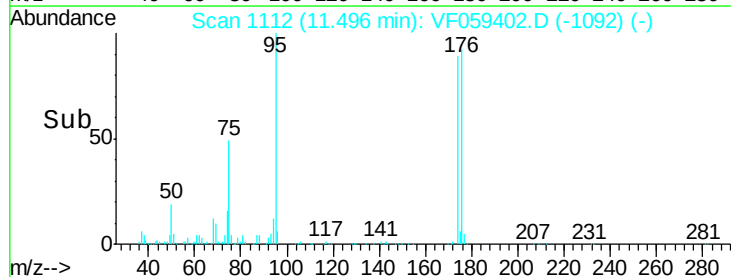
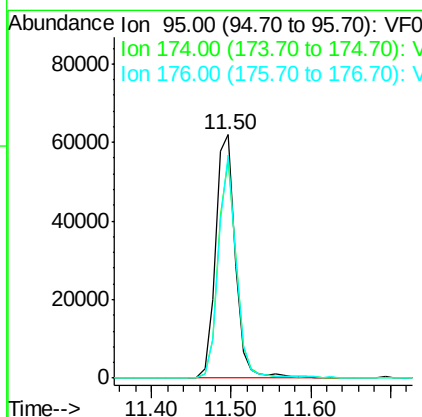
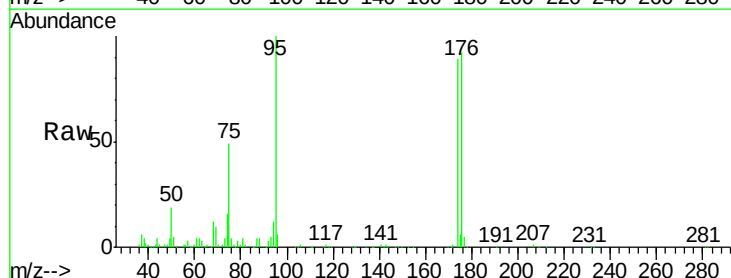
Instrument :
MSVOA_F
ClientSampled :
CF-8(5.0)

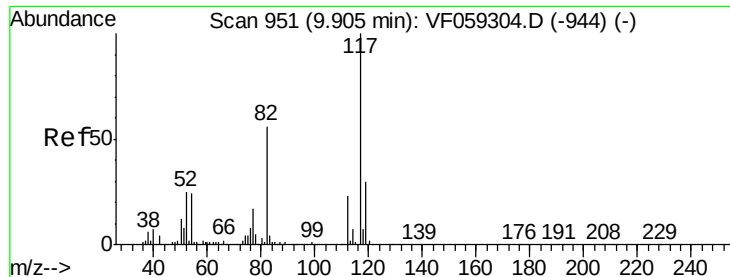
Tot Ion: 43 Resp: 655
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 36.57 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

Tgt Ion: 95 Resp: 109450
Ion Ratio Lower Upper
95 100
174 89.5 0.0 165.2
176 91.9 0.0 161.0

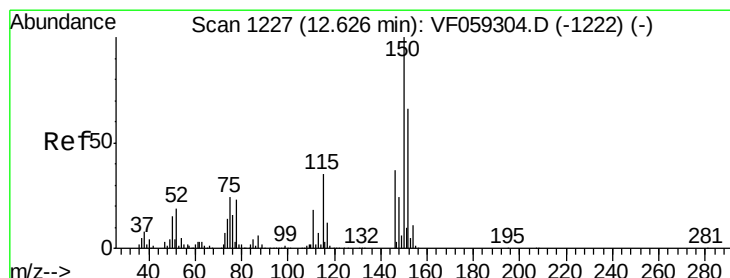
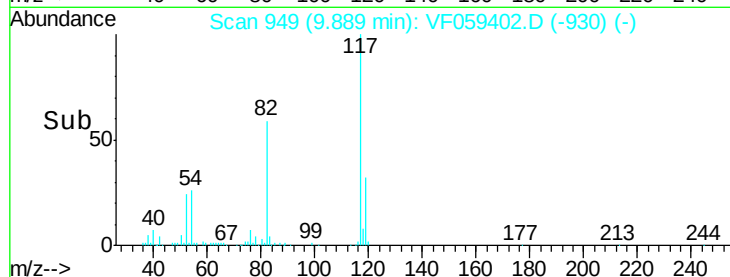
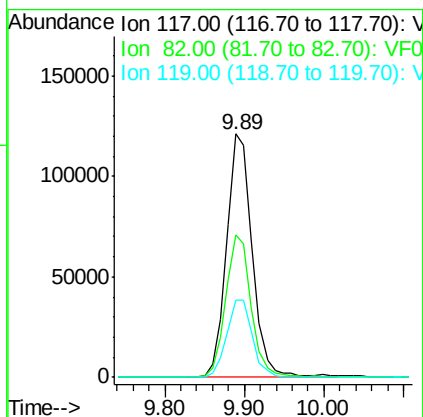
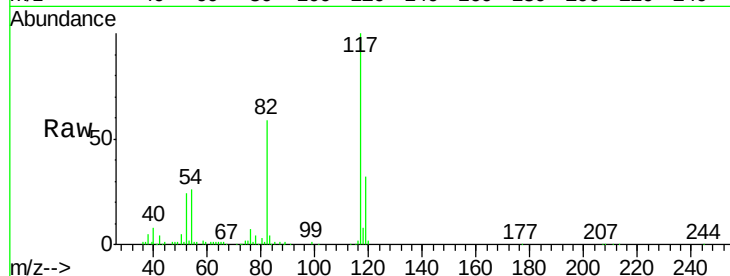




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.89 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

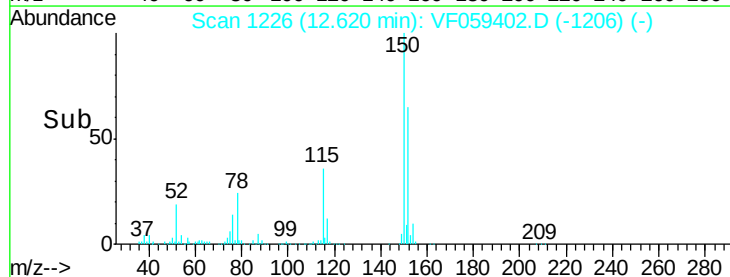
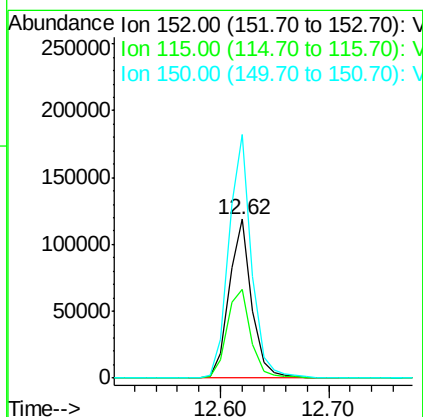
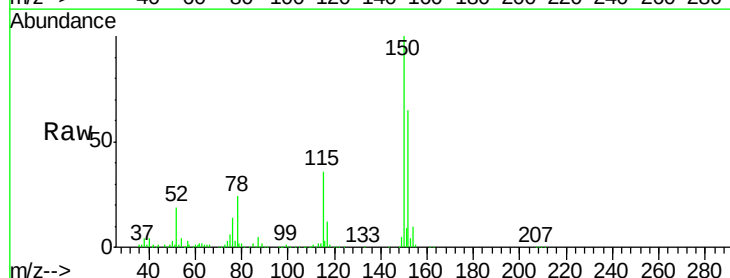
Instrument :
MSVOA_F
ClientSampleId :
CF-8(5.0)

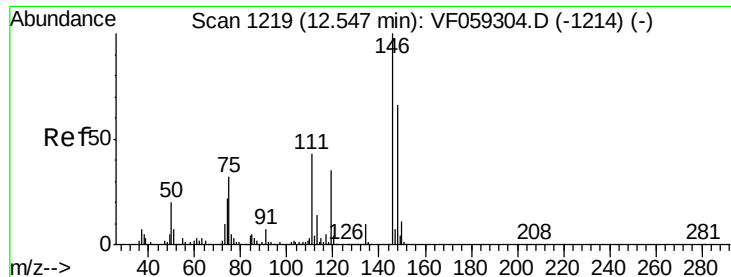
Tot Ion:117 Resp: 275670
Ion Ratio Lower Upper
117 100
82 58.7 44.6 66.8
119 31.7 24.1 36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059402.D
Acq: 2 Jul 2018 22:14

Tgt Ion:152 Resp: 172681
Ion Ratio Lower Upper
152 100
115 55.7 27.1 81.3
150 153.6 0.0 305.2





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.53 min Scan# 1217

Delta R.T. -0.02 min

Lab File: VF059402.D

Acq: 2 Jul 2018 22:14

Instrument :

MSVOA_F

ClientSampleId :

CF-8(5.0)

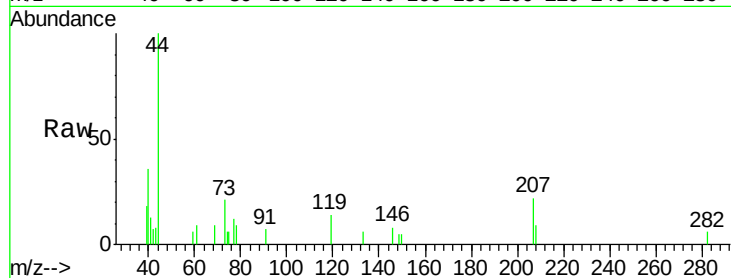
Tot Ion:146 Resp: 88

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

148 68.9 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

12.53

150

100

50

0

12.50 12.52 12.54 12.56

Time-->

