

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062718\
 Data File : VF059339.D
 Acq On : 27 Jun 2018 15:18
 Operator : VA/AP
 Sample : J3629-15
 Misc : 6.40g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 27 16:04:57 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	204437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	334913	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	294677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	139618	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	113092	42.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	85.64%	
35) Dibromofluoromethane	4.28	113	106424	43.49	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.98%	
50) Toluene-d8	7.70	98	225916	37.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.58%	
62) 4-Bromofluorobenzene	11.50	95	110846	32.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	64.86%	

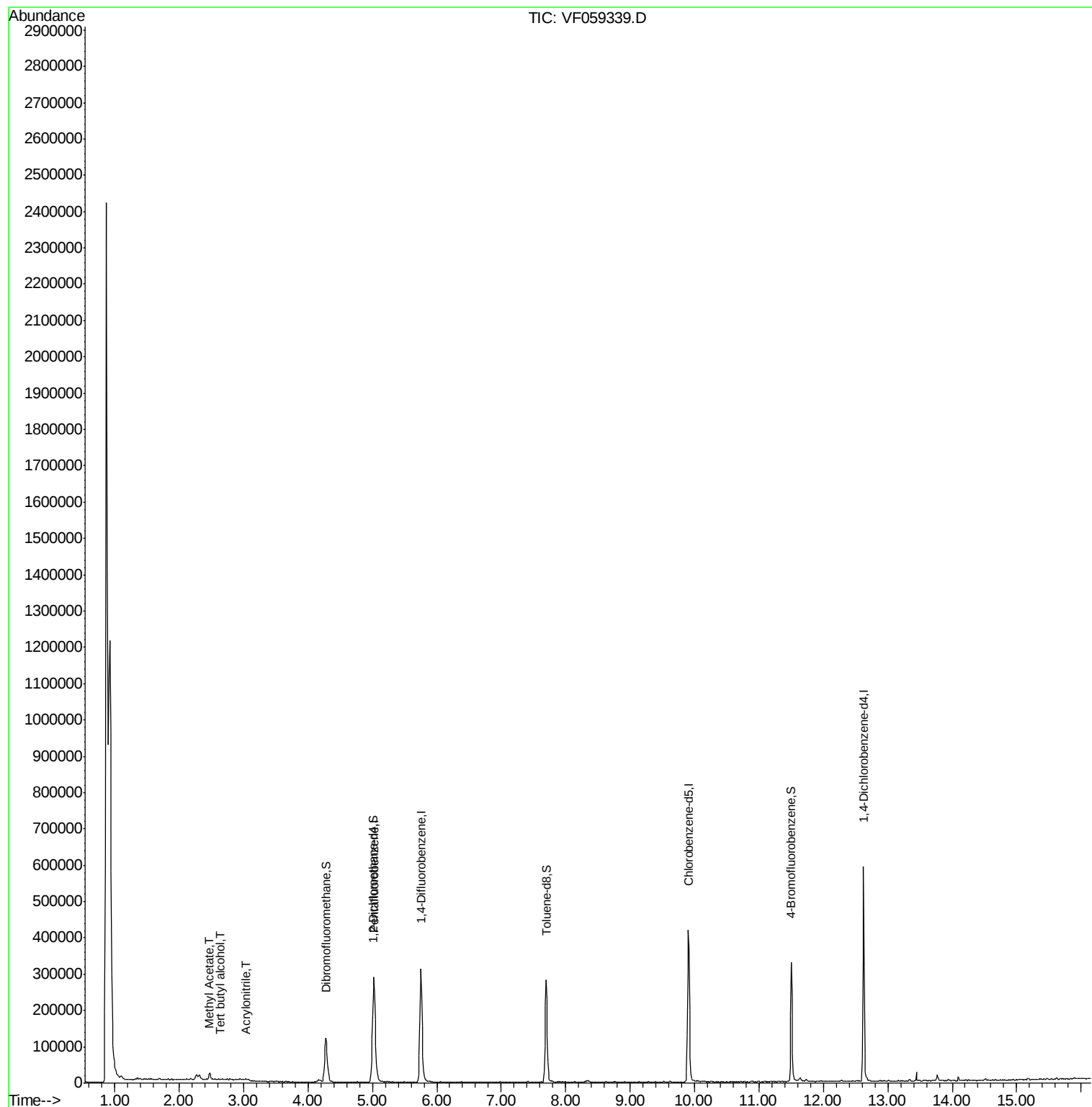
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.34	94	276	Below Cal	#	73
11) Tert butyl alcohol	2.64	59	1313	7.47	ug/l	# 13
13) Acrolein	2.03	56	605	Below Cal	#	75
15) Acrylonitrile	3.05	53	445	1.44	ug/l	# 26
16) Acetone	2.32	43	2187	Below Cal	#	65
18) Methyl Acetate	2.47	43	8816	6.38	ug/l	# 61
20) Methylene Chloride	2.27	84	6007	Below Cal		95
25) 2-Butanone	4.49	43	289	Below Cal	#	59
28) Bromochloromethane	3.76	49	61	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	474	Below Cal	#	57
37) Ethyl Acetate	4.27	43	723	Below Cal	#	26
49) 1,4-Dioxane	7.05	88	64	Below Cal	#	28
59) 2-Hexanone	9.64	43	1031	Below Cal		91
87) 1,3-Dichlorobenzene	12.55	146	312	Below Cal		96

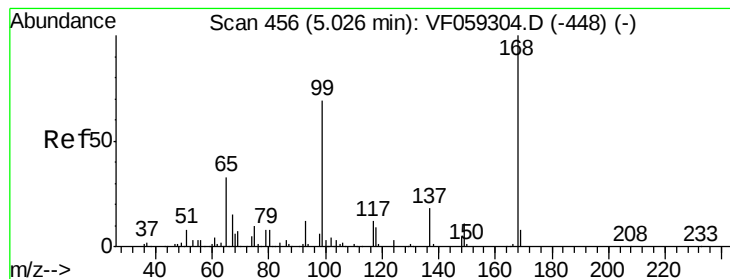
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF059339.D

Acq: 27 Jun 2018 15:18

Instrument :

MSVOA_F

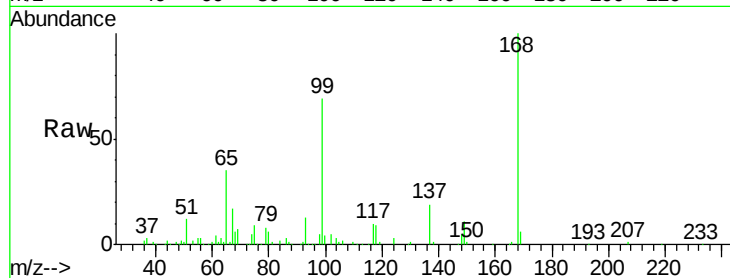
ClientSampleId :

Tot Ion:168 Resp: 204437

Ion Ratio Lower Upper

168 100

99 69.0 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

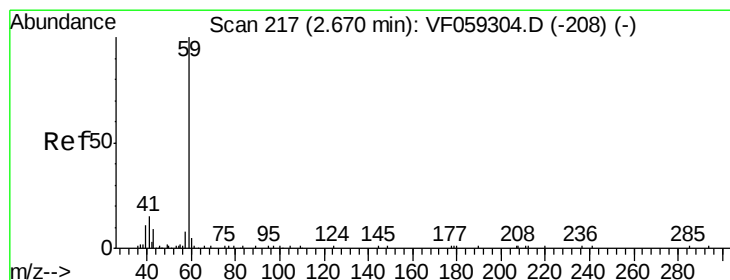
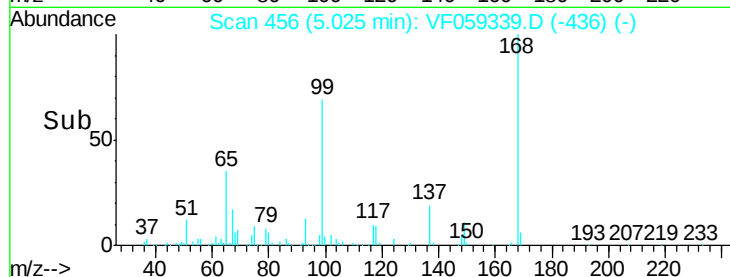
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#11

Tert butyl alcohol

Concen: 7.47 ug/l

RT: 2.64 min Scan# 214

Delta R.T. -0.03 min

Lab File: VF059339.D

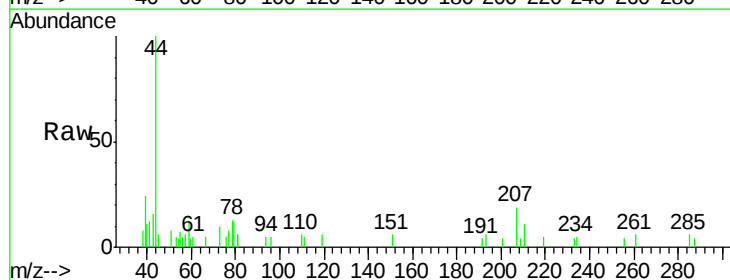
Acq: 27 Jun 2018 15:18

Tgt Ion: 59 Resp: 1313

Ion Ratio Lower Upper

59 100

57 48.9 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.64

300

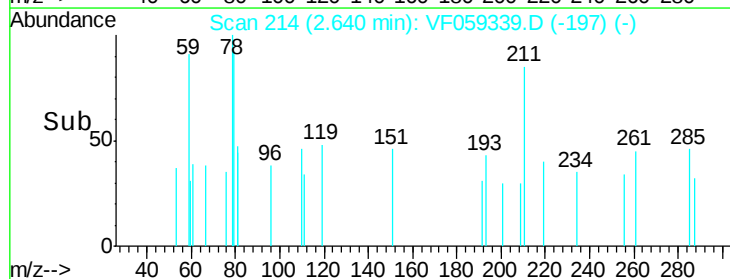
200

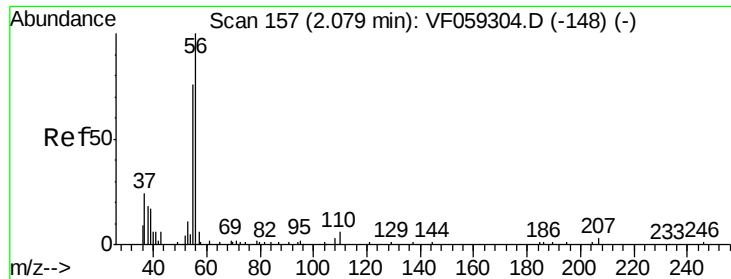
100

0

2.60 2.65 2.70 2.75

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.03 min Scan# 152

Delta R.T. -0.05 min

Lab File: VF059339.D

Acq: 27 Jun 2018 15:18

Instrument :

MSVOA_F

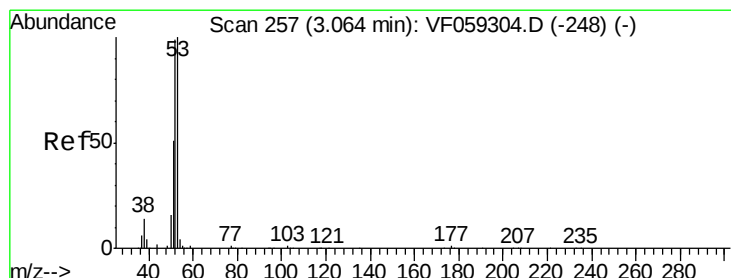
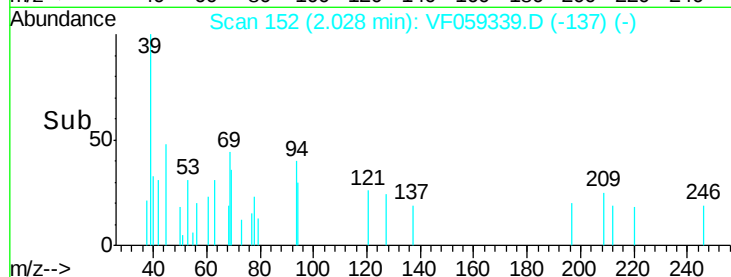
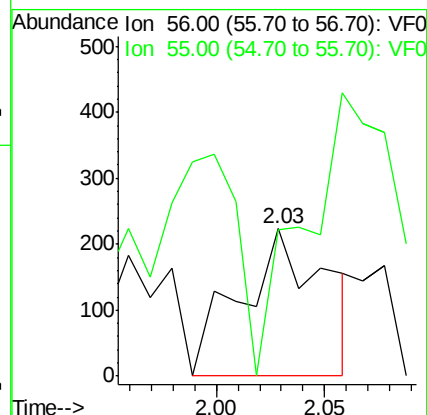
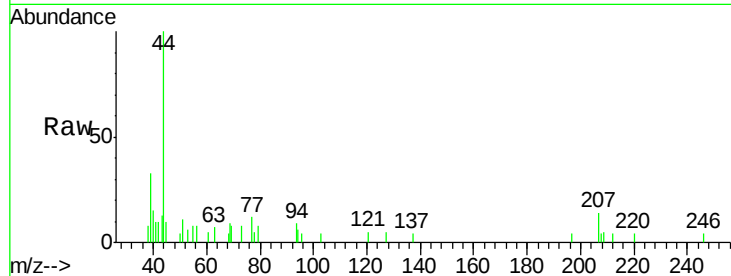
ClientSampled :

Tot Ion: 56 Resp: 605

Ion Ratio Lower Upper

56 100

55 99.6 62.4 93.6#



#15

Acrylonitrile

Concen: 1.44 ug/l

RT: 3.05 min Scan# 256

Delta R.T. -0.01 min

Lab File: VF059339.D

Acq: 27 Jun 2018 15:18

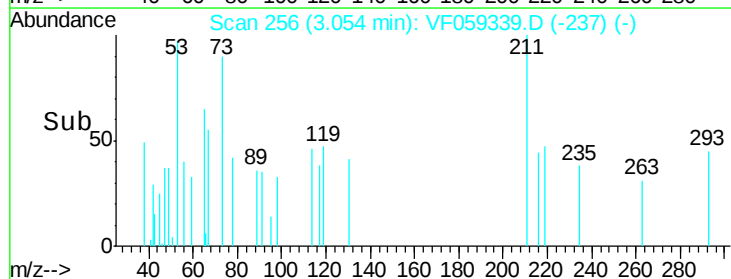
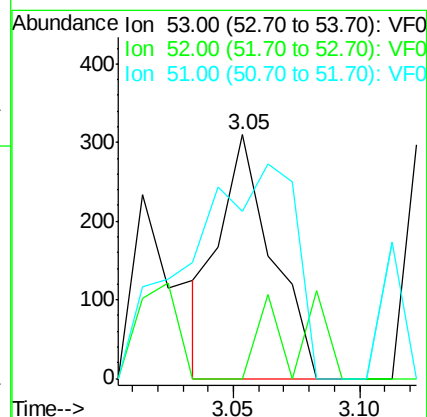
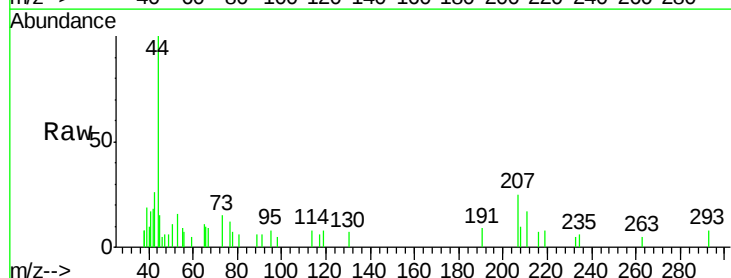
Tgt Ion: 53 Resp: 445

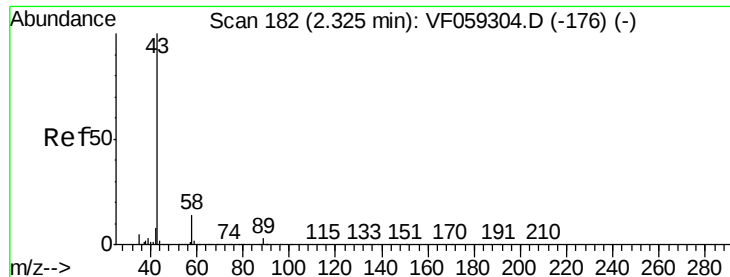
Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

51 68.7 40.9 61.3#





#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059339.D

Acq: 27 Jun 2018 15:18

Instrument :

MSVOA_F

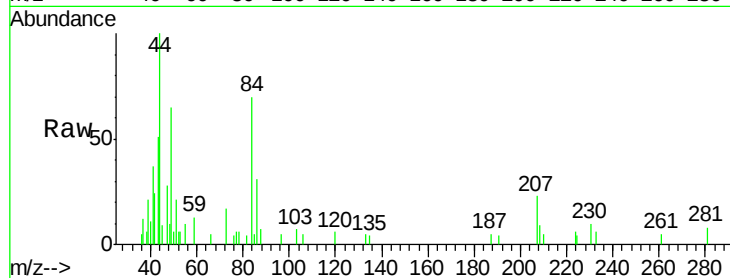
ClientSampleId :

Tot Ion: 43 Resp: 2187

Ion Ratio Lower Upper

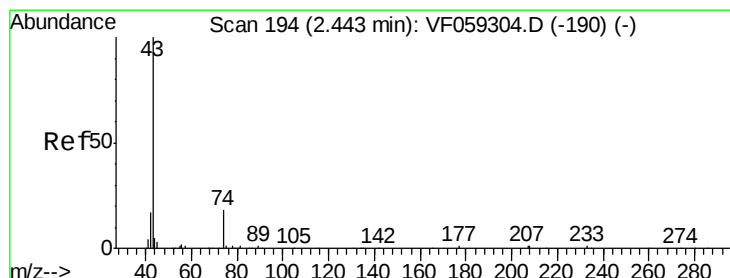
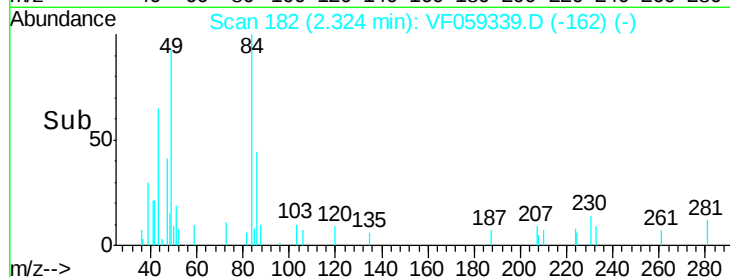
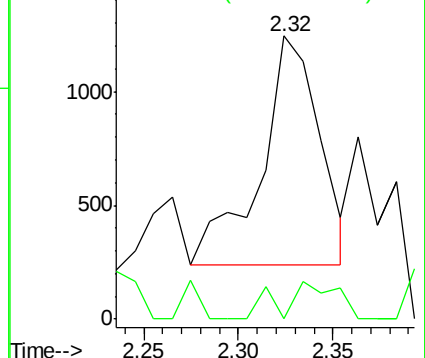
43 100

58 0.0 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 6.38 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.03 min

Lab File: VF059339.D

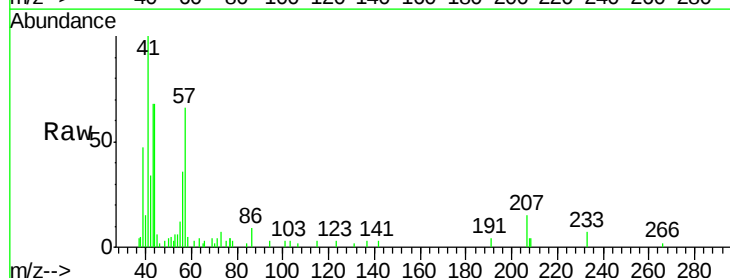
Acq: 27 Jun 2018 15:18

Tgt Ion: 43 Resp: 8816

Ion Ratio Lower Upper

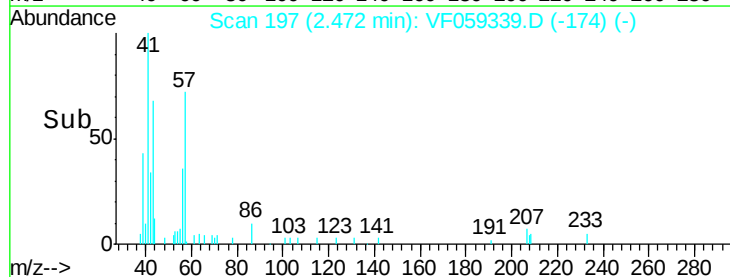
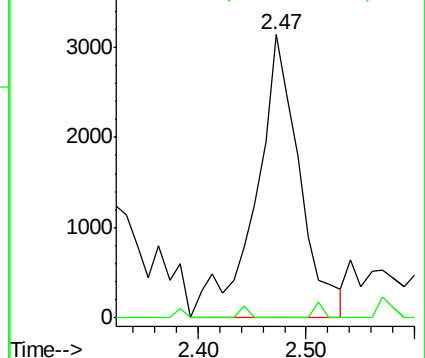
43 100

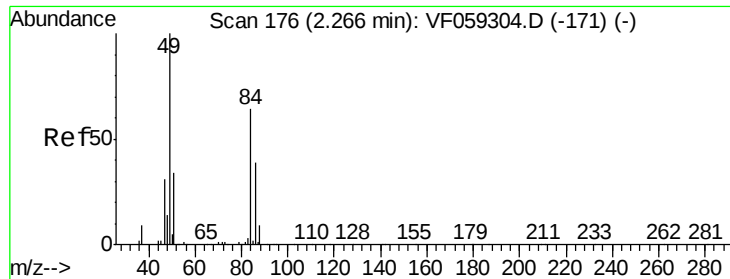
74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

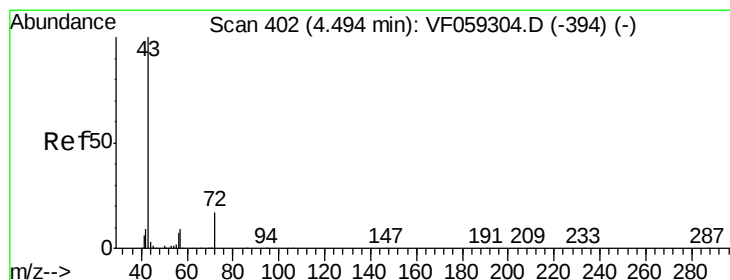
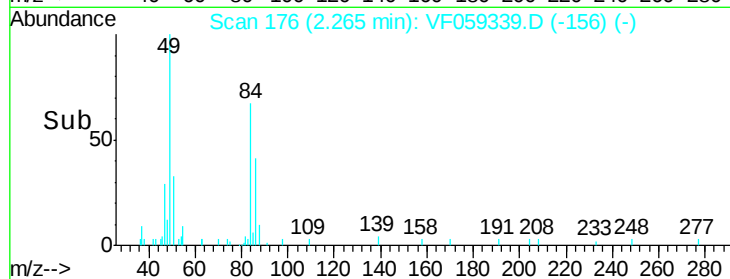
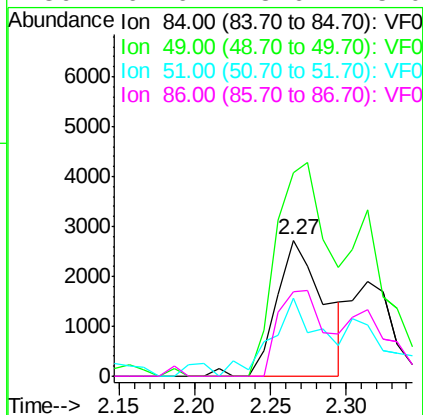
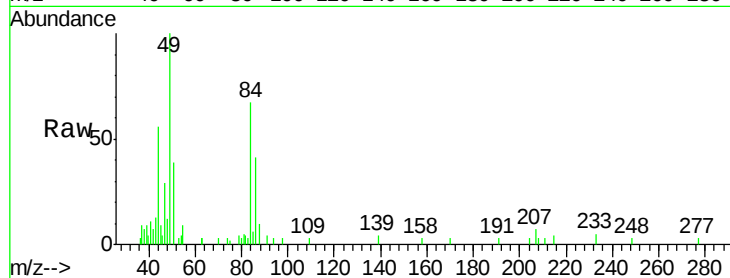




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

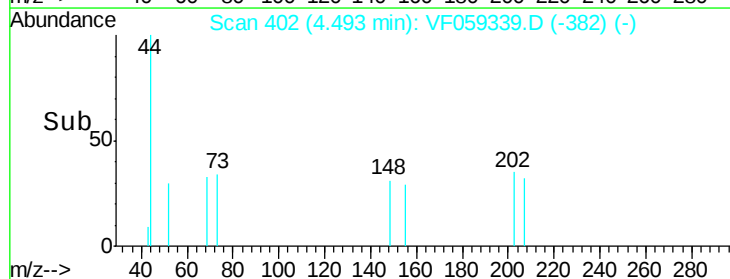
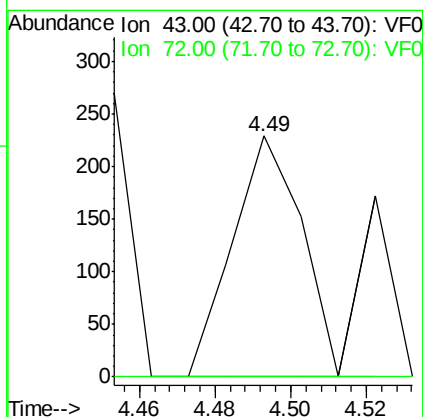
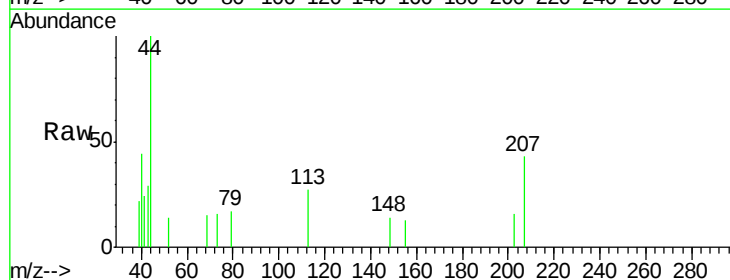
Instrument :
MSVOA_F
ClientSampleId :

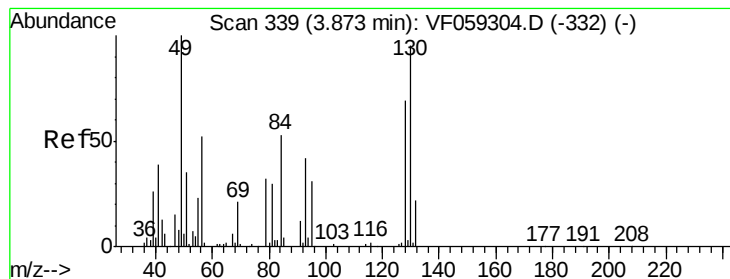
Tot Ion: 84 Resp: 6007
Ion Ratio Lower Upper
84 100
49 148.9 126.5 189.7
51 57.4 42.9 64.3
86 61.6 48.6 73.0



#25
2-Butanone
Concen: Below Cal
RT: 4.49 min Scan# 402
Delta R.T. -0.00 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

Tgt Ion: 43 Resp: 289
Ion Ratio Lower Upper
43 100
72 0.0 14.4 21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.76 min Scan# 328

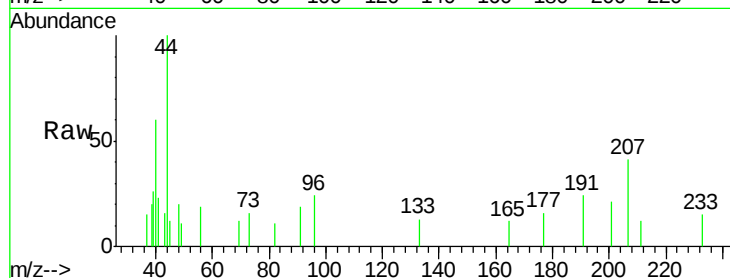
Delta R.T. -0.11 min

Lab File: VF059339.D

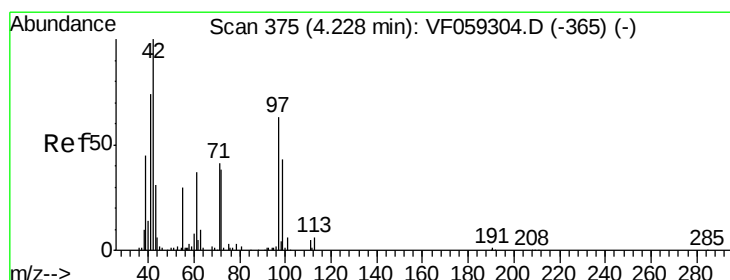
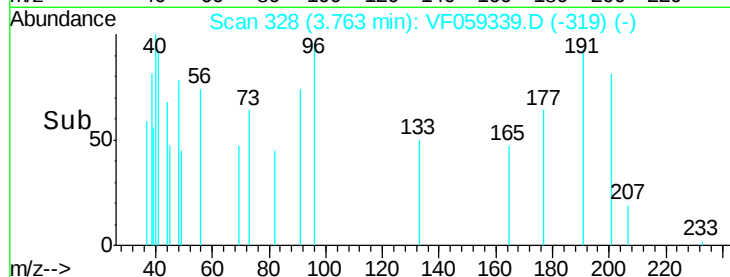
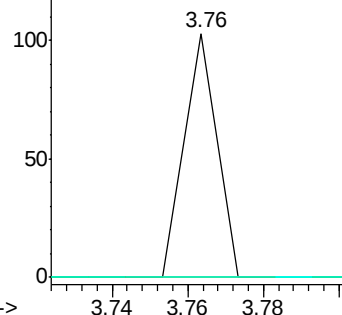
Acq: 27 Jun 2018 15:18

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 49 Resp: 61
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

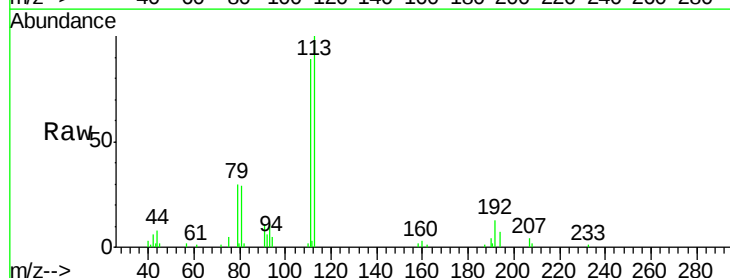
RT: 4.25 min Scan# 377

Delta R.T. 0.02 min

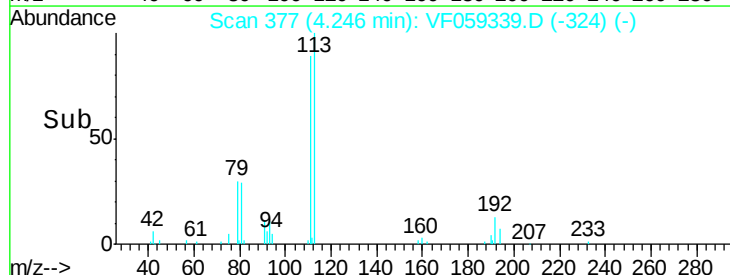
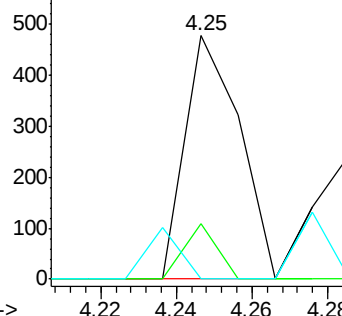
Lab File: VF059339.D

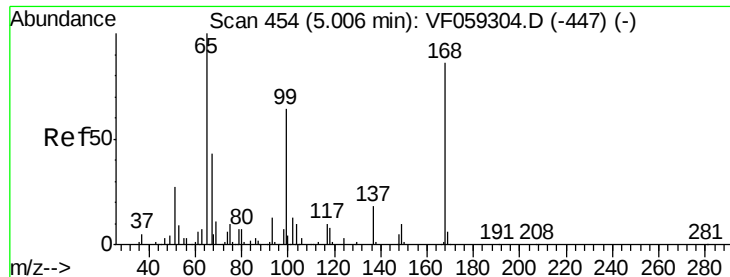
Acq: 27 Jun 2018 15:18

Tgt Ion: 42 Resp: 474
Ion Ratio Lower Upper
42 100
72 13.7 30.5 45.7#
71 12.7 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: 42.82 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059339.D

Acq: 27 Jun 2018 15:18

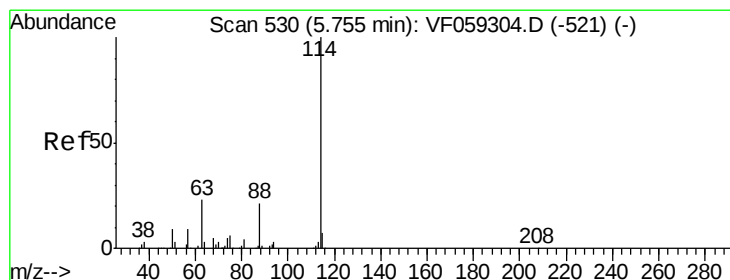
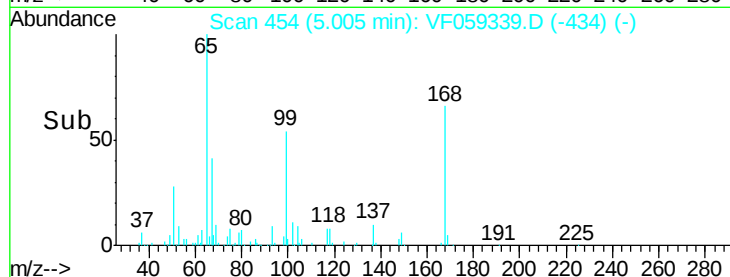
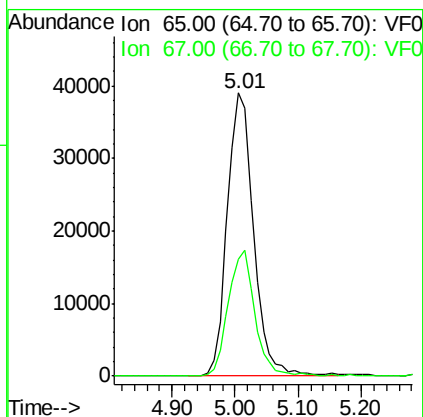
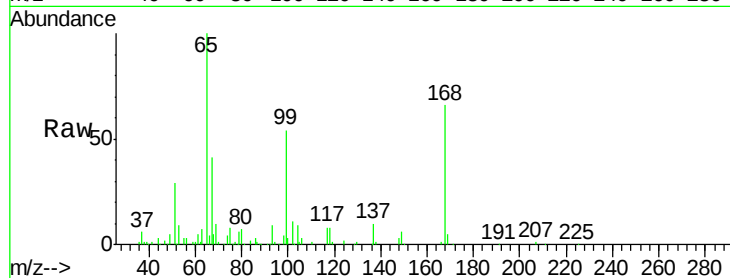
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 113092

Ion Ratio Lower Upper

65 100

67 41.4 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.75 min Scan# 530

Delta R.T. -0.00 min

Lab File: VF059339.D

Acq: 27 Jun 2018 15:18

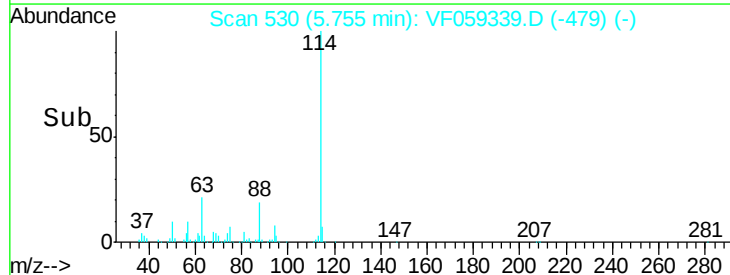
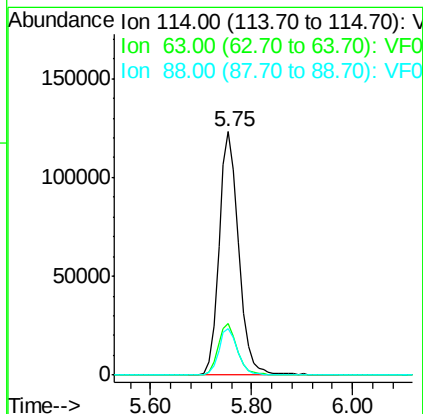
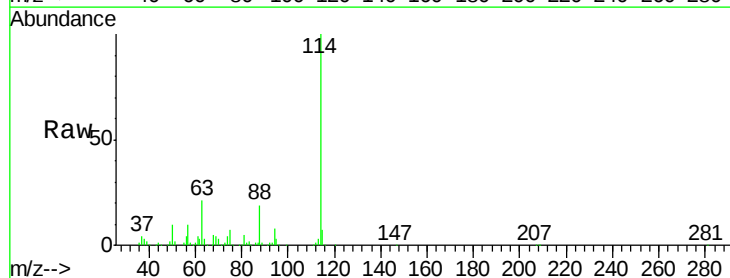
Tgt Ion: 114 Resp: 334913

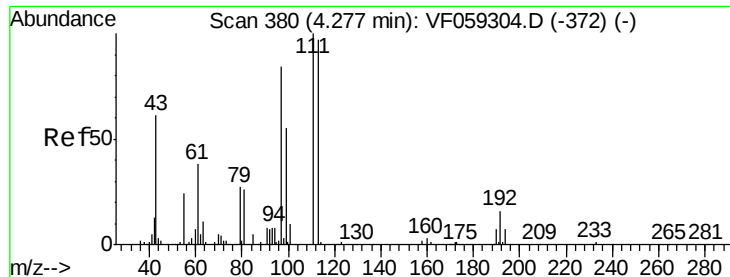
Ion Ratio Lower Upper

114 100

63 21.2 0.0 45.8

88 19.3 0.0 41.2

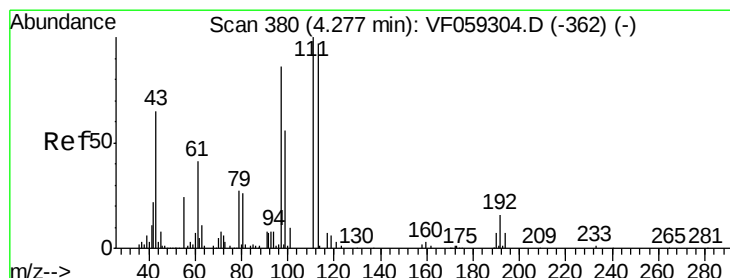
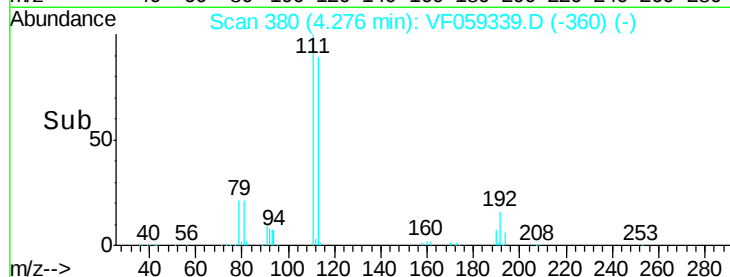
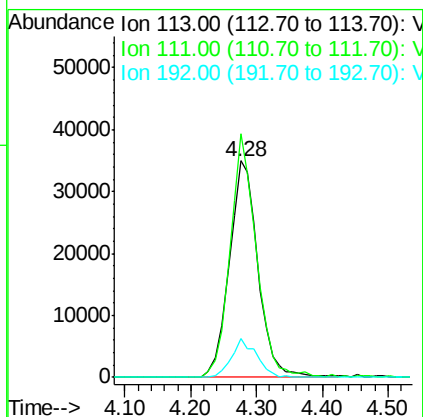
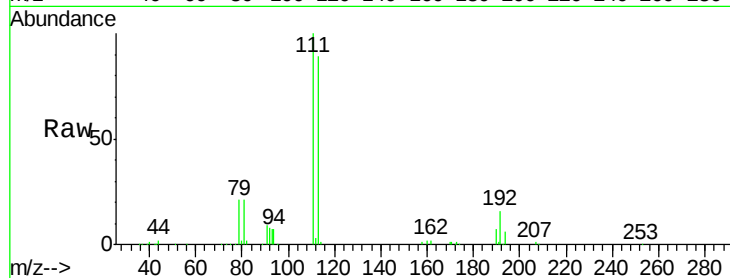




#35
 Dibromofluoromethane
 Concen: 43.49 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VF059339.D
 Acq: 27 Jun 2018 15:18

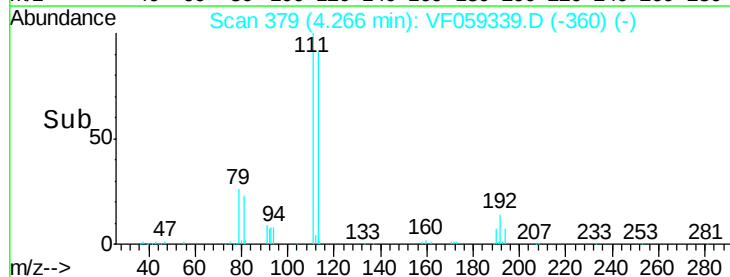
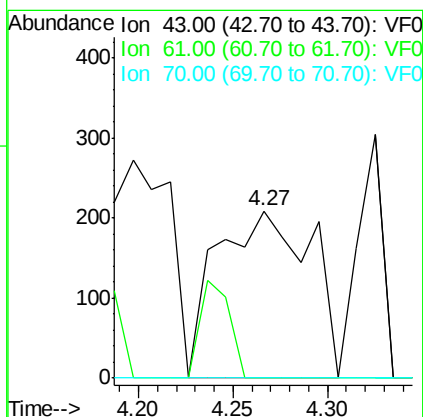
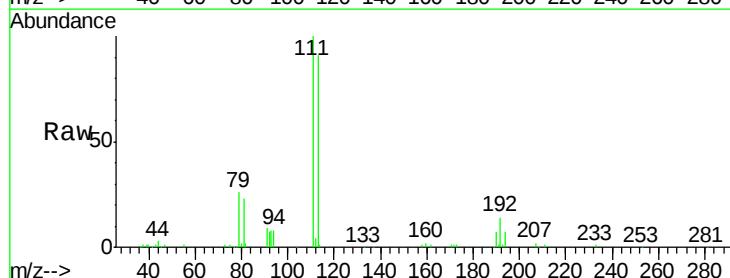
Instrument :
 MSVOA_F
 ClientSampleId :

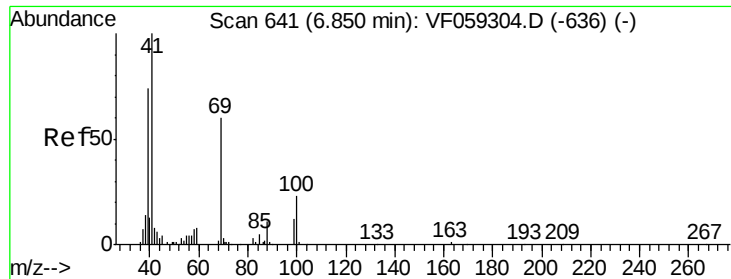
Tot Ion:113 Resp: 106424
 Ion Ratio Lower Upper
 113 100
 111 112.6 82.1 123.1
 192 17.8 13.0 19.6



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.27 min Scan# 379
 Delta R.T. -0.01 min
 Lab File: VF059339.D
 Acq: 27 Jun 2018 15:18

Tgt Ion: 43 Resp: 723
 Ion Ratio Lower Upper
 43 100
 61 0.0 50.1 75.1#
 70 0.0 6.2 9.4#

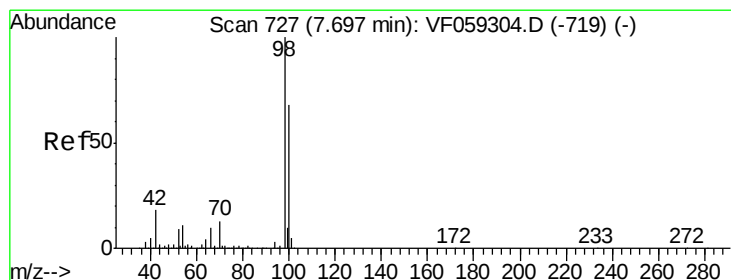
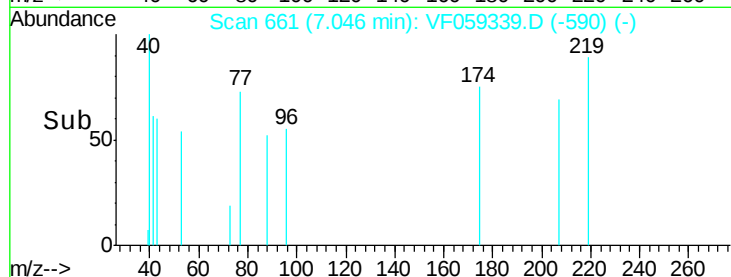
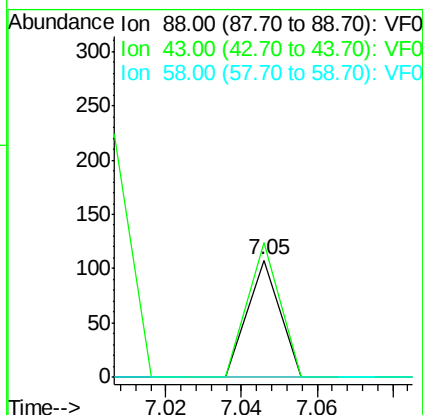
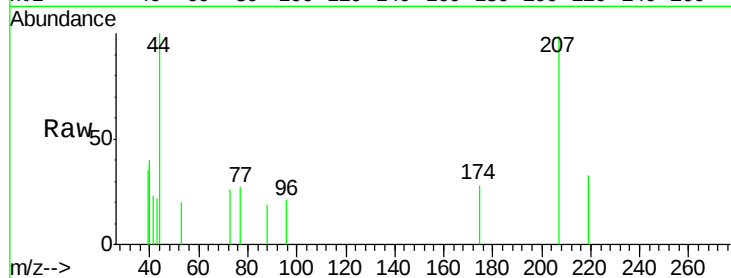




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.05 min Scan# 661
Delta R.T. 0.20 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

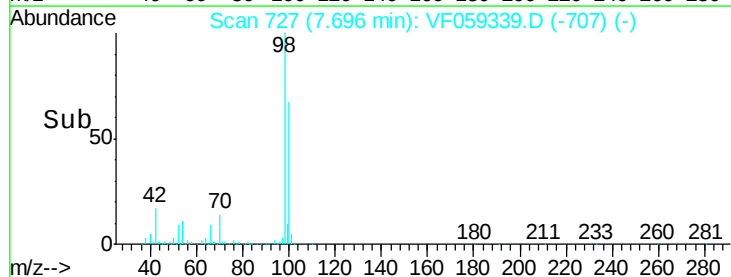
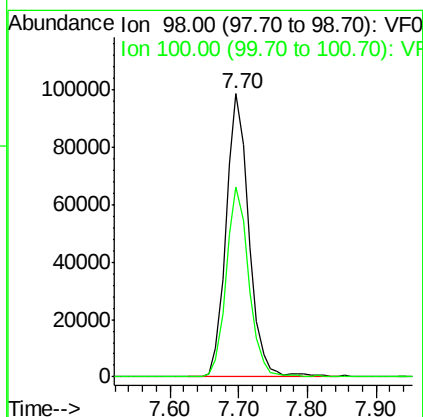
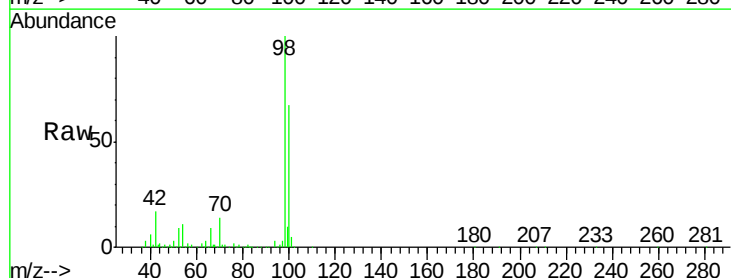
Instrument :
MSVOA_F
ClientSampleId :

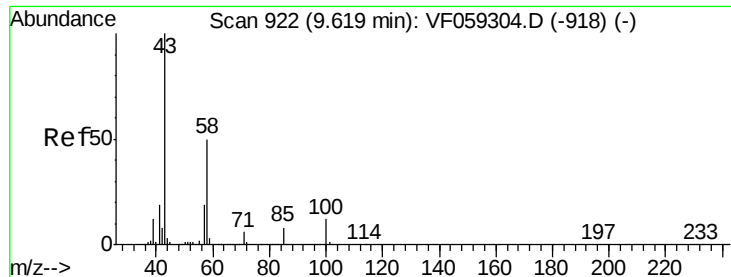
Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 114.8 50.6 75.8#
58 0.0 46.6 69.8#



#50
Toluene-d8
Concen: 37.29 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

Tgt Ion: 98 Resp: 225916
Ion Ratio Lower Upper
98 100
100 67.3 54.6 82.0

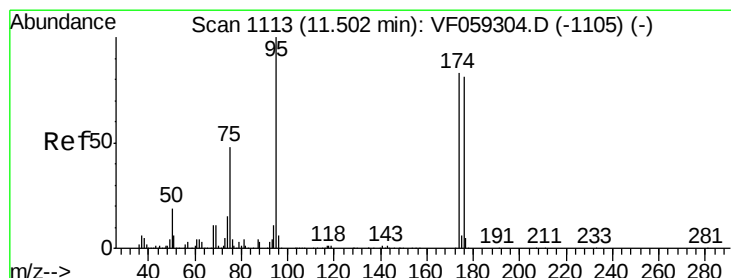
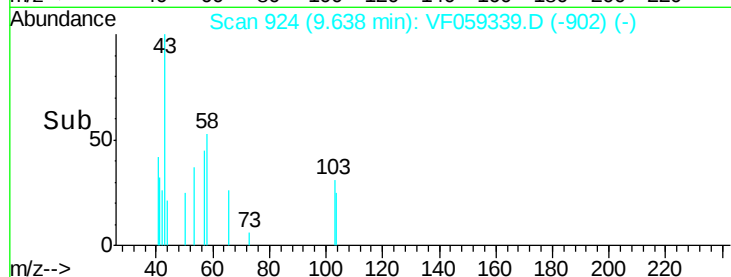
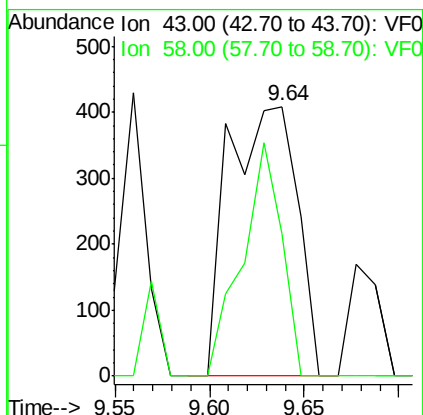
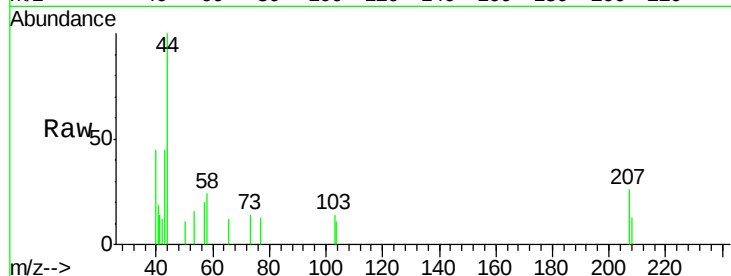




#59
2-Hexanone
Concen: Below Cal
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

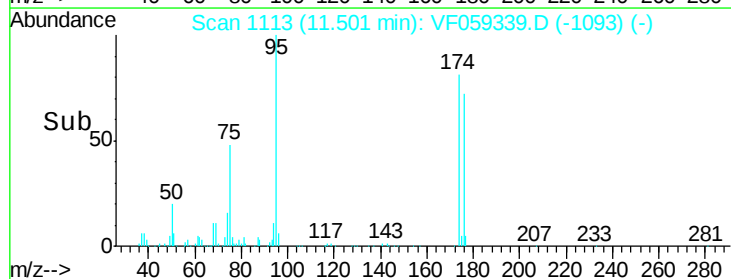
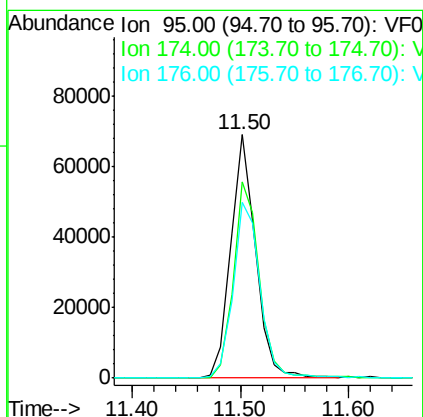
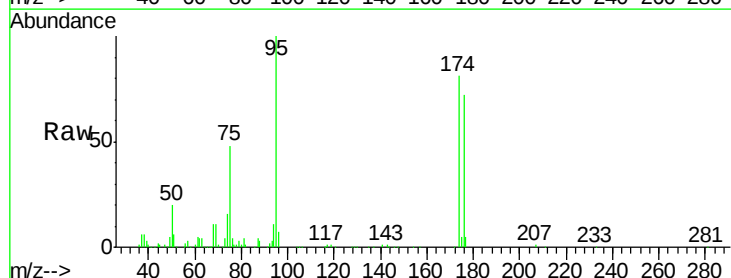
Instrument :
MSVOA_F
ClientSampled :

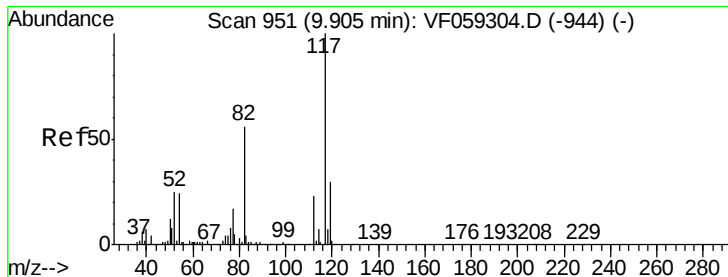
Tot Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
58 52.8 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 32.43 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

Tgt Ion: 95 Resp: 110846
Ion Ratio Lower Upper
95 100
174 80.6 0.0 165.2
176 72.3 0.0 161.0

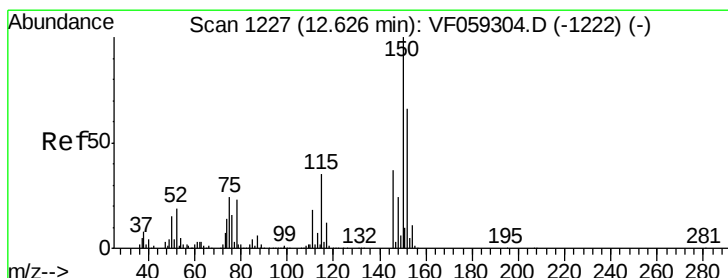
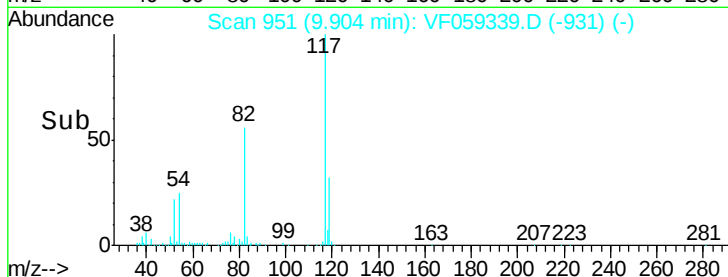
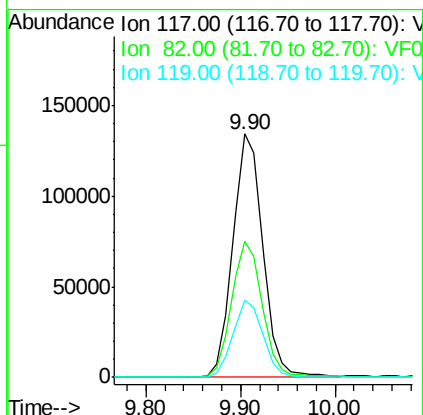
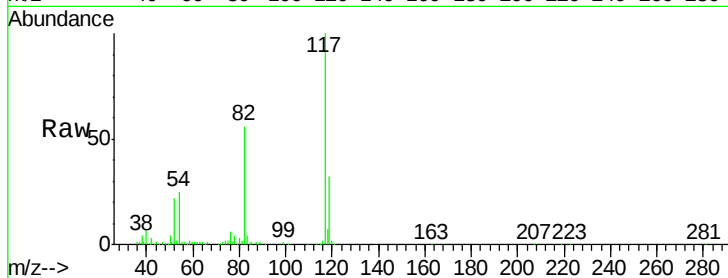




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

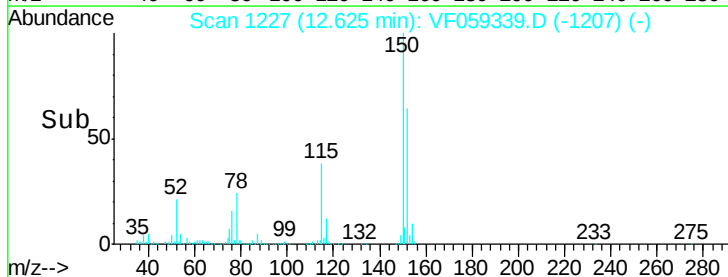
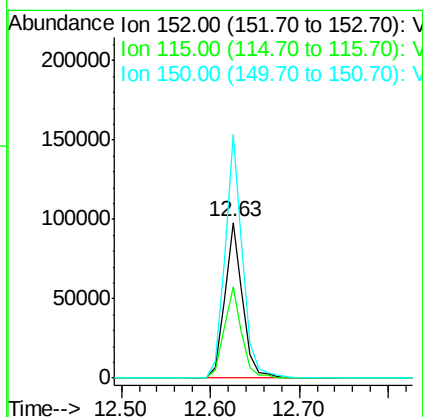
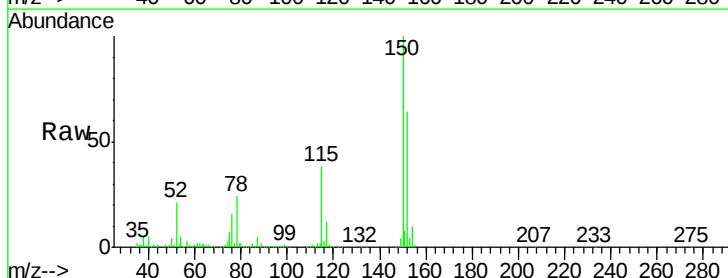
Instrument :
MSVOA_F
ClientSampleId :

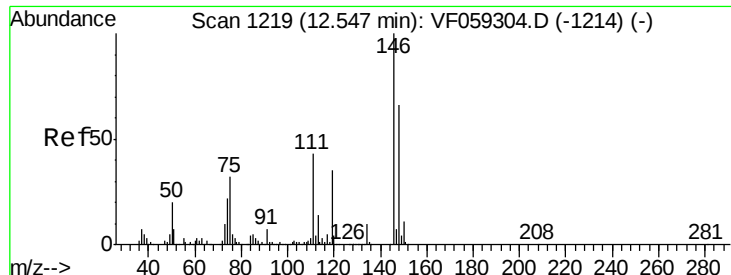
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.8	44.6	66.8
119	31.7	24.1	36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059339.D
Acq: 27 Jun 2018 15:18

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.8	27.1	81.3
150	156.1	0.0	305.2





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059339.D

Acq: 27 Jun 2018 15:18

Instrument :

MSVOA_F

ClientSampleId :

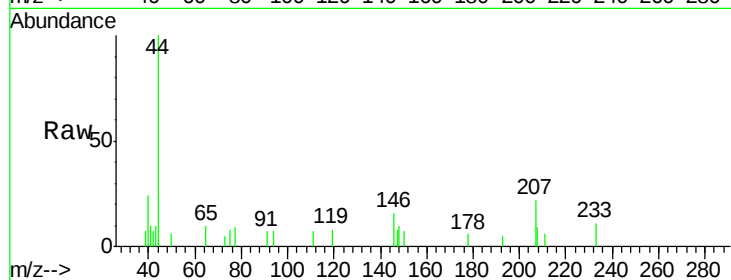
Tot Ion:146 Resp: 312

Ion Ratio Lower Upper

146 100

111 43.8 21.4 64.2

148 61.2 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

