

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059468.D
 Acq On : 6 Jul 2018 23:48
 Operator : VA/AP
 Sample : J3874-02
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 2018-M-NYSEG-MCMaster-PH4-50

Quant Time: Jul 07 01:53:17 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	141993	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.73	114	217406	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.89	117	181848	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	85413	50.00	ug/l	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.99	65	113857	62.06	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	124.12%	
35) Dibromofluoromethane	4.26	113	97635	61.46	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	122.92%	
50) Toluene-d8	7.68	98	168137	42.75	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	85.50%	
62) 4-Bromofluorobenzene	11.48	95	77518	34.94	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	69.88%	

Target Compounds

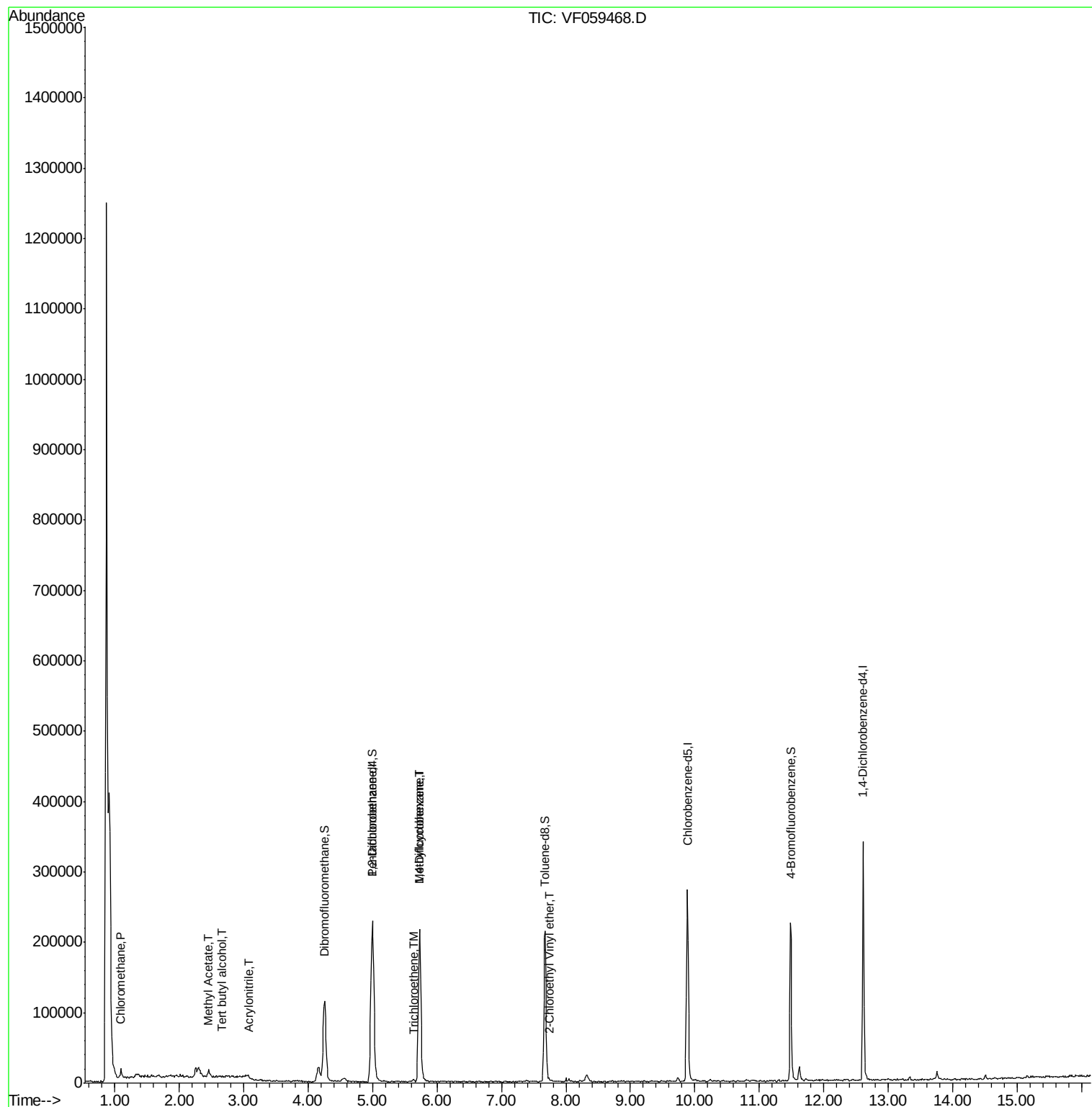
					Qvalue	
3) Chloromethane	1.10	50	1486	1.705 ug/l	93	
5) Bromomethane	1.32	94	485	Below Cal	#	4
11) Tert butyl alcohol	2.67	59	648	5.306 ug/l	#	66
13) Acrolein	2.09	56	257	Below Cal		96
15) Acrylonitrile	3.09	53	332	1.544 ug/l		96
16) Acetone	2.32	43	1715	Below Cal	#	70
18) Methyl Acetate	2.44	43	3875	3.600 ug/l	#	86
20) Methylene Chloride	2.26	84	4228	Below Cal	#	86
25) 2-Butanone	4.47	43	288	Below Cal	#	59
28) Bromochloromethane	3.90	49	71	Below Cal	#	1
29) Tetrahydrofuran	4.25	42	1034	Below Cal	#	36
37) Ethyl Acetate	4.26	43	233	Below Cal	#	16
39) Methylcyclohexane	5.73	83	3842	2.283 ug/l	#	33
44) Trichloroethene	5.64	130	1658	1.148 ug/l		69
49) 1,4-Dioxane	6.79	88	59	Below Cal	#	1
58) 2-Chloroethyl Vinyl ether	7.75	63	186	1.636 ug/l		100
59) 2-Hexanone	9.53	43	209	Below Cal		75
87) 1,3-Dichlorobenzene	12.54	146	219	Below Cal	#	23

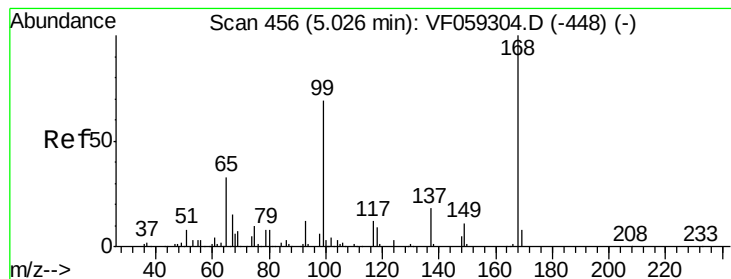
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VF059468.D
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MSVOA_F
ClientSampleId :
2018-M-NYSEG-MCMaster-PH4-5

Quant Time: Jul 07 01:53:17 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
Quant Title : SW846 8260
QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

Instrument :

MSVOA_F

ClientSampleId :

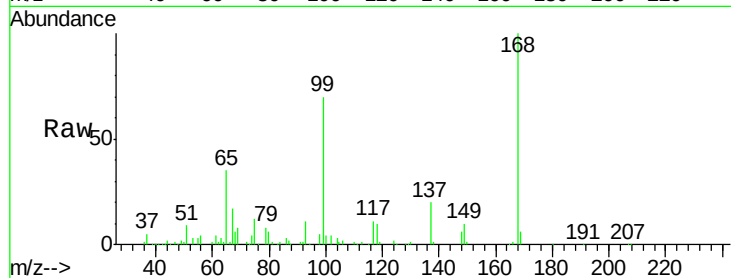
2018-M-NYSEG-MCMaster-PH4-5(

Tot Ion:168 Resp: 141993

Ion Ratio Lower Upper

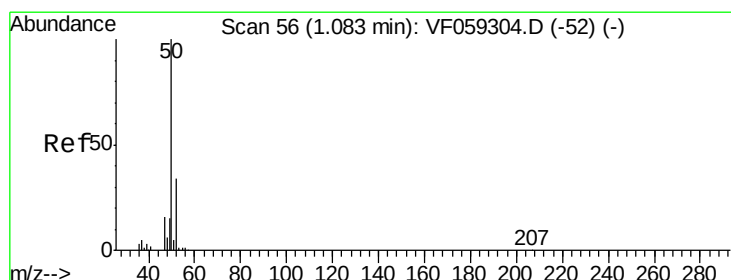
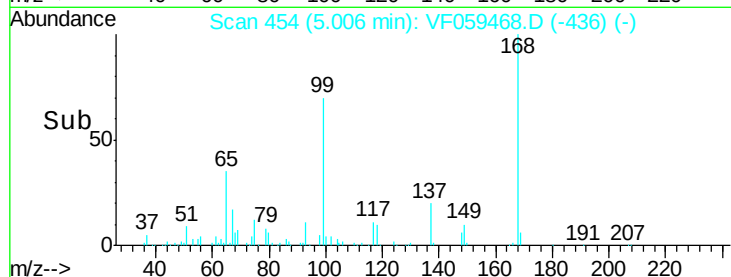
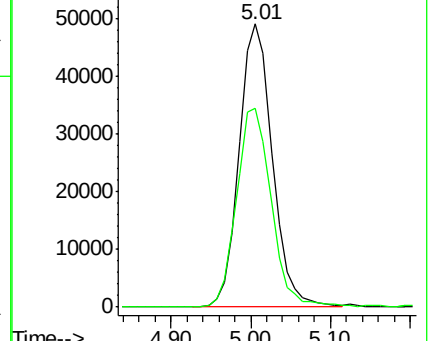
168 100

99 70.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 1.705 ug/l

RT: 1.10 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF059468.D

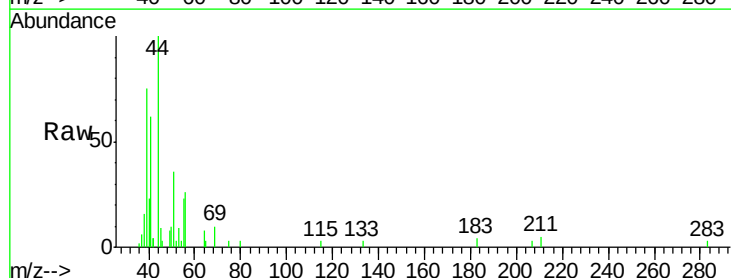
Acq: 6 Jul 2018 23:48

Tgt Ion: 50 Resp: 1486

Ion Ratio Lower Upper

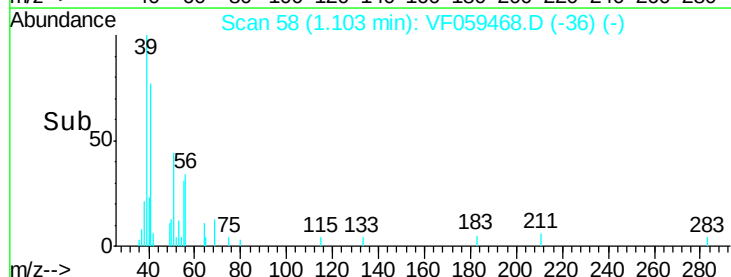
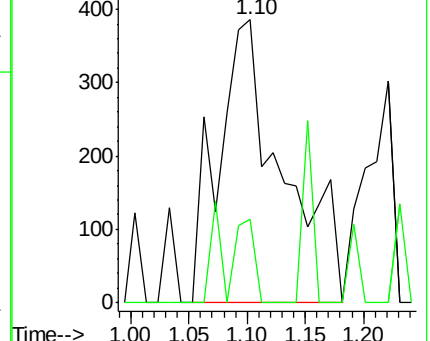
50 100

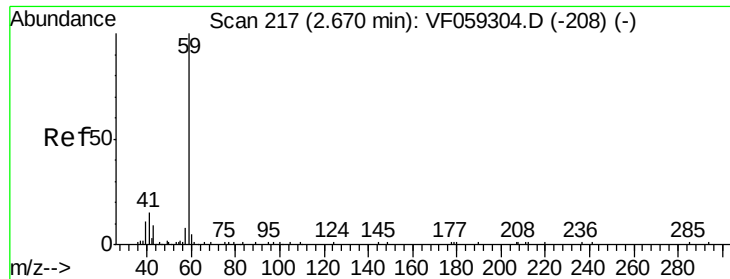
52 29.3 26.7 40.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



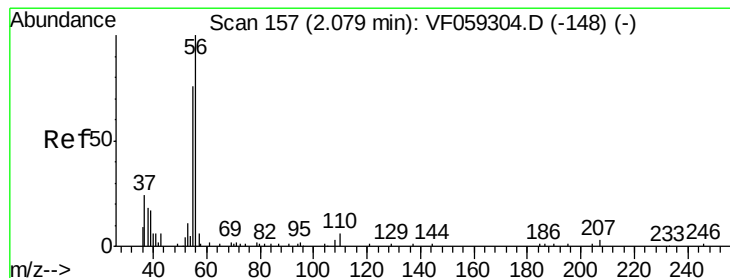
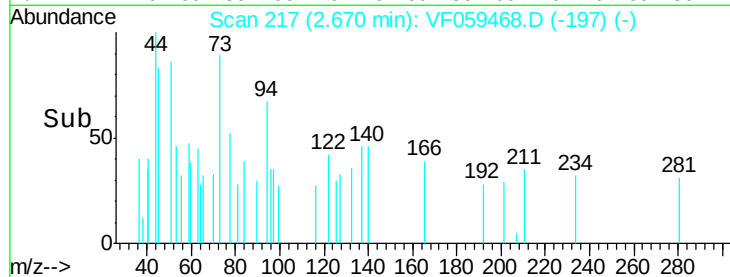
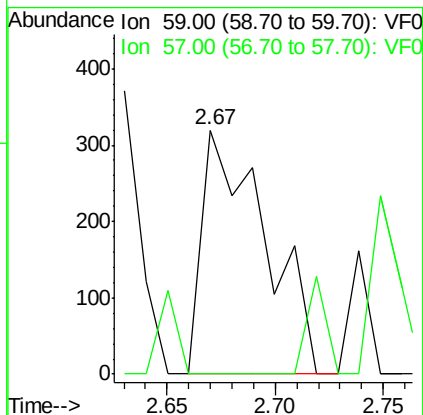
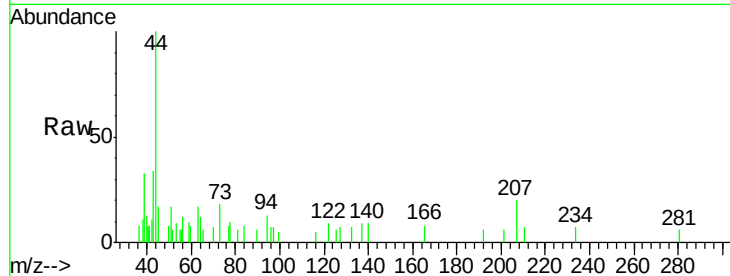


#11

Tert butyl alcohol
 Concen: 5.306 ug/l
 RT: 2.67 min Scan# 217
 Delta R.T. -0.00 min
 Lab File: VF059468.D
 Acq: 6 Jul 2018 23:48

Instrument :
 MSVOA_F
 ClientSampleId :
 2018-M-NYSEG-MCMaster-PH4-50

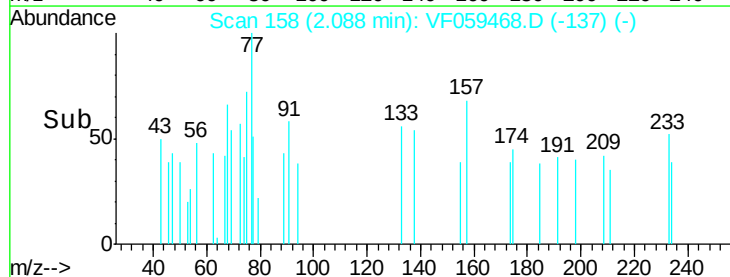
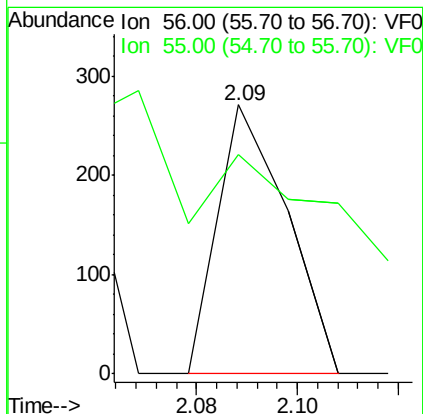
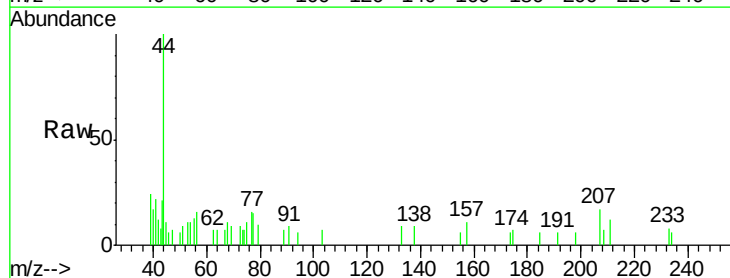
Tot Ion: 59 Resp: 648
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.0 16.4#

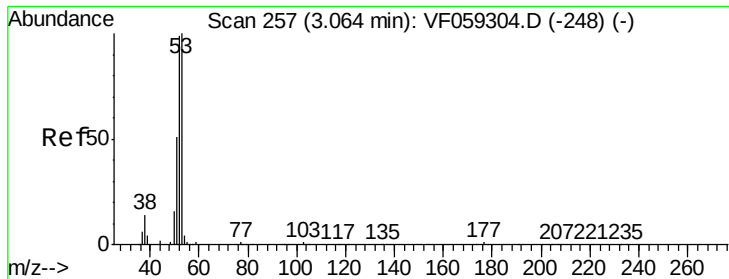


#13

Acrolein
 Concen: Below Cal
 RT: 2.09 min Scan# 158
 Delta R.T. 0.01 min
 Lab File: VF059468.D
 Acq: 6 Jul 2018 23:48

Tgt Ion: 56 Resp: 257
 Ion Ratio Lower Upper
 56 100
 55 81.5 62.4 93.6





#15

Acrylonitrile

Concen: 1.544 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.03 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

Instrument :

MSVOA_F

ClientSampleId :

2018-M-NYSEG-MCMaster-PH4-5

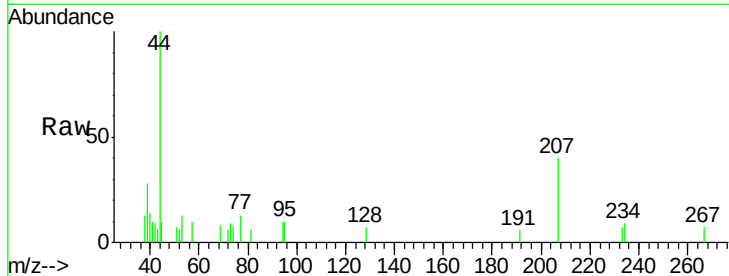
Tot Ion: 53 Resp: 332

Ion Ratio Lower Upper

53 100

52 95.1 79.2 118.8

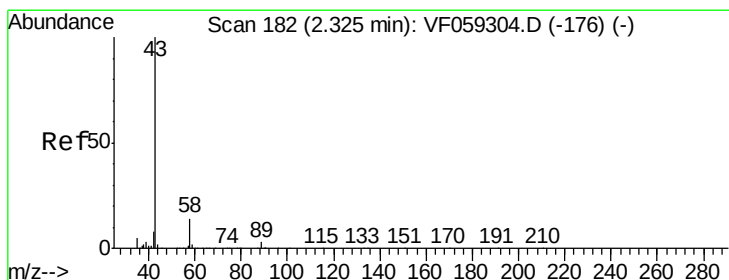
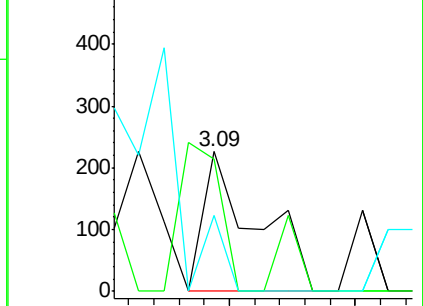
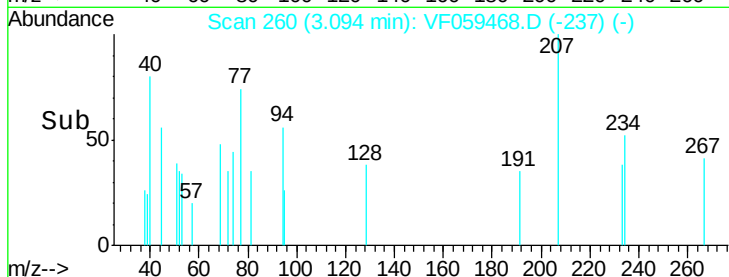
51 54.4 40.9 61.3



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059468.D

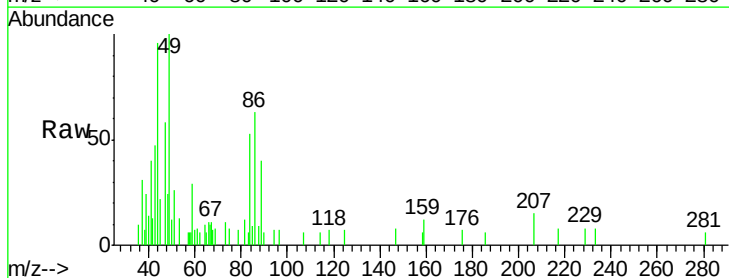
Acq: 6 Jul 2018 23:48

Tgt Ion: 43 Resp: 1715

Ion Ratio Lower Upper

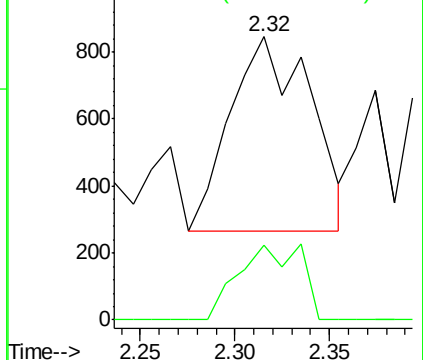
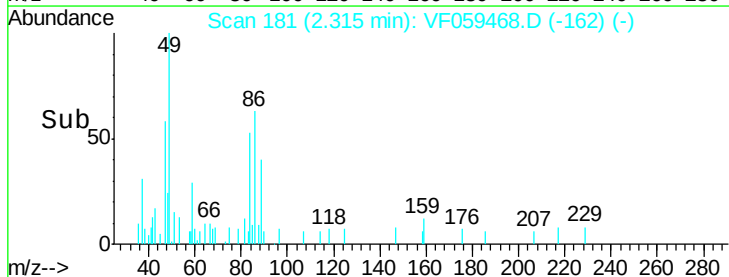
43 100

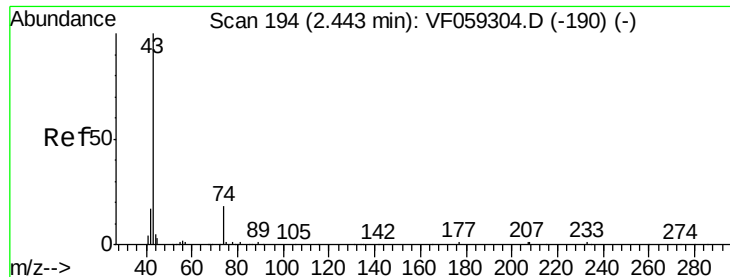
58 26.5 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

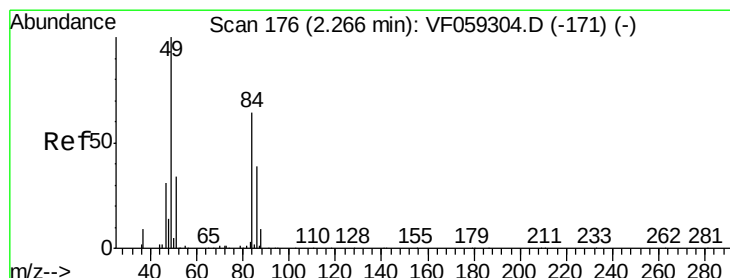
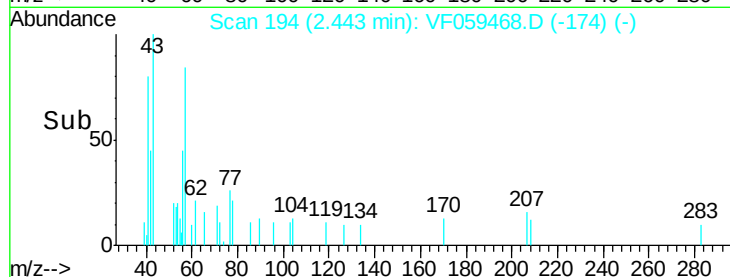
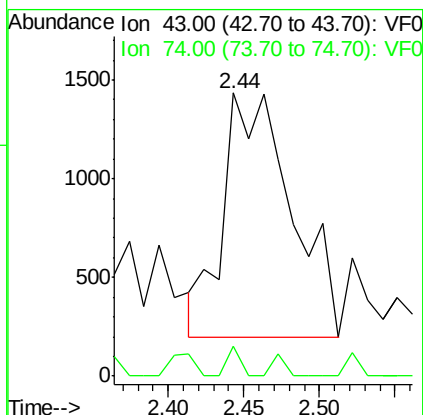
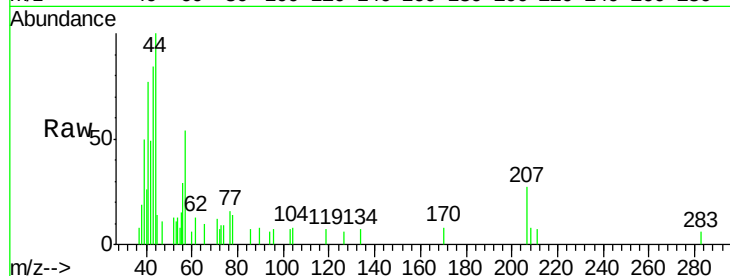




#18
Methyl Acetate
Concen: 3.600 ug/l
RT: 2.44 min Scan# 194
Delta R.T. 0.00 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

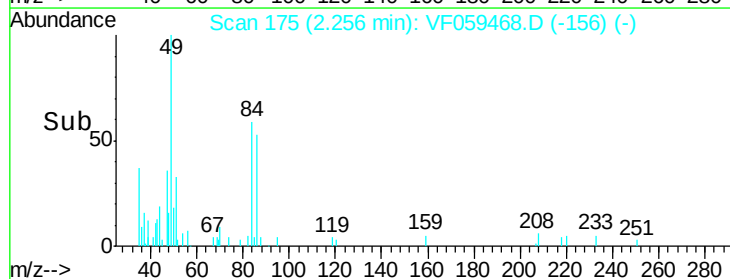
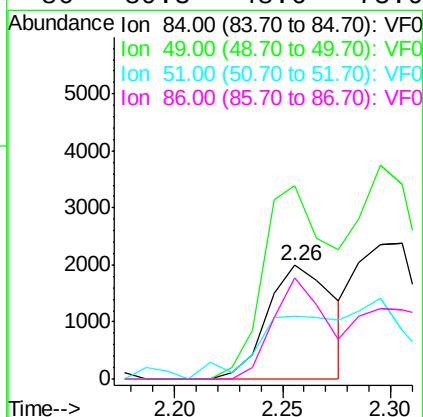
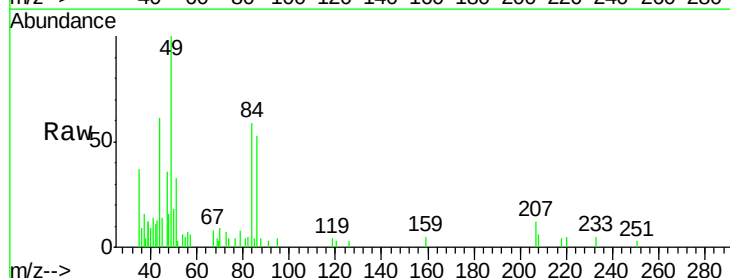
Instrument :
MSVOA_F
ClientSampleId :
2018-M-NYSEG-MCMaster-PH4-5(

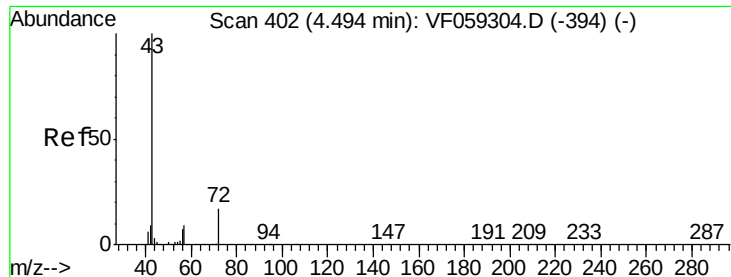
Tot Ion: 43 Resp: 3875
Ion Ratio Lower Upper
43 100
74 10.6 13.3 19.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 175
Delta R.T. -0.01 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

Tgt Ion: 84 Resp: 4228
Ion Ratio Lower Upper
84 100
49 170.1 126.5 189.7
51 55.5 42.9 64.3
86 89.3 48.6 73.0#





#25

2-Butanone

Concen: Below Cal

RT: 4.47 min Scan# 400

Delta R.T. -0.02 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

Instrument :

MSVOA_F

ClientSampleId :

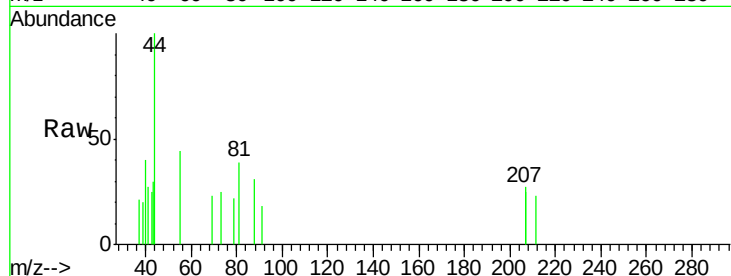
2018-M-NYSEG-MCMaster-PH4-5(

Tot Ion: 43 Resp: 288

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.47

300

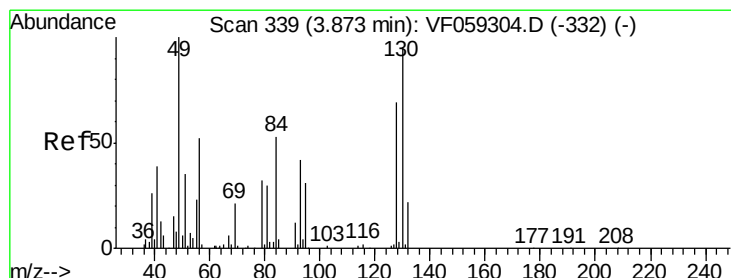
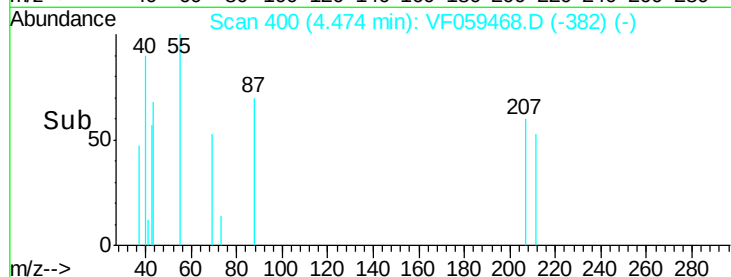
200

100

0

4.44 4.46 4.48 4.50

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 3.90 min Scan# 342

Delta R.T. 0.03 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

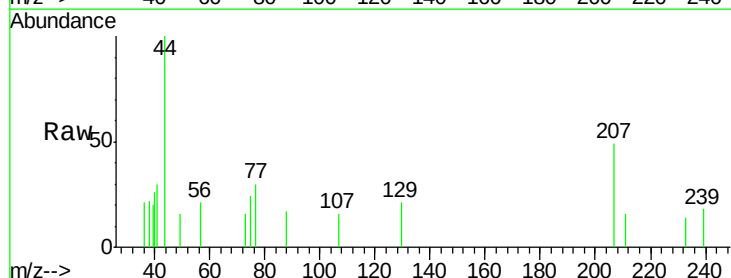
Tgt Ion: 49 Resp: 71

Ion Ratio Lower Upper

49 100

129 129.2 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

200

150

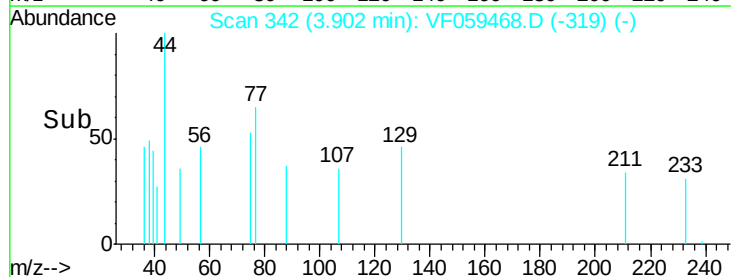
100

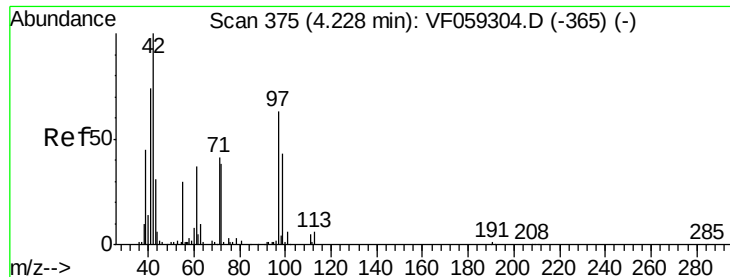
50

0

3.88 3.90 3.92

Time-->

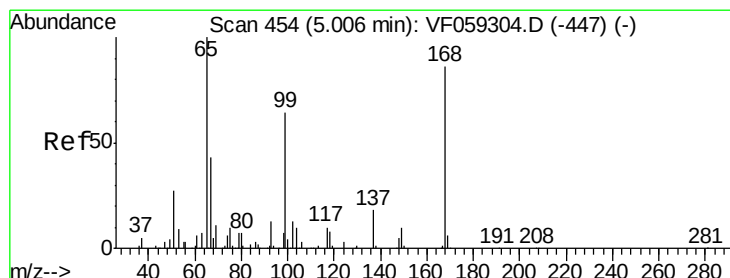
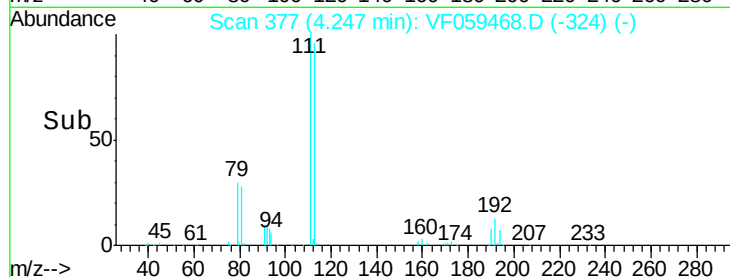
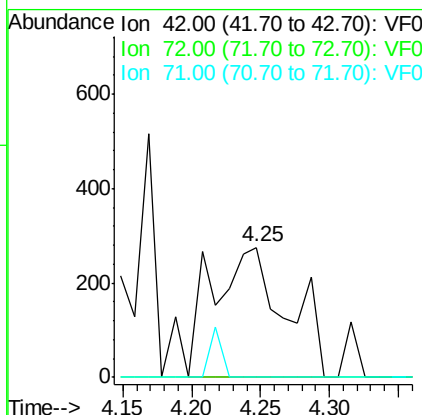
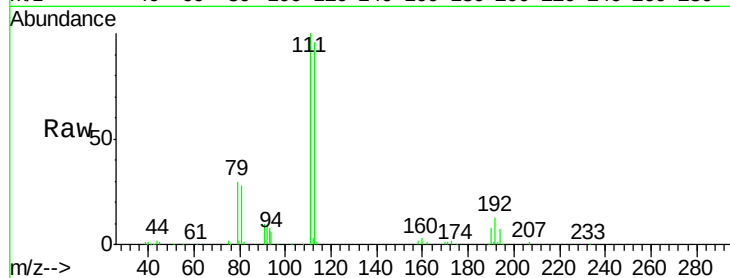




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.25 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

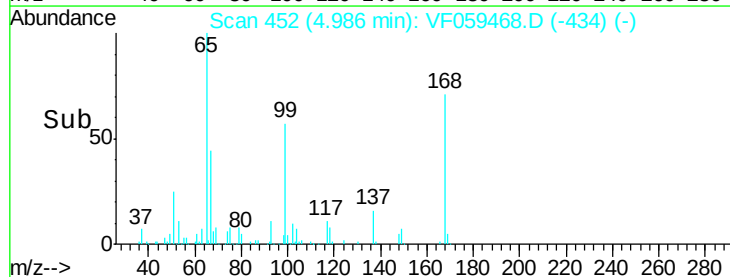
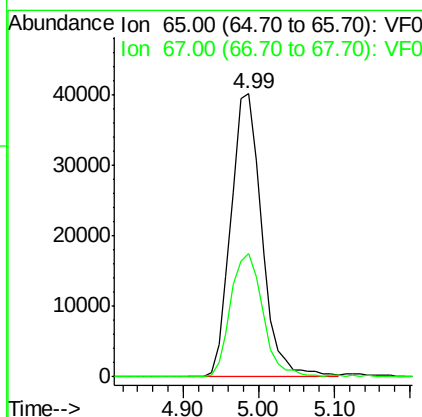
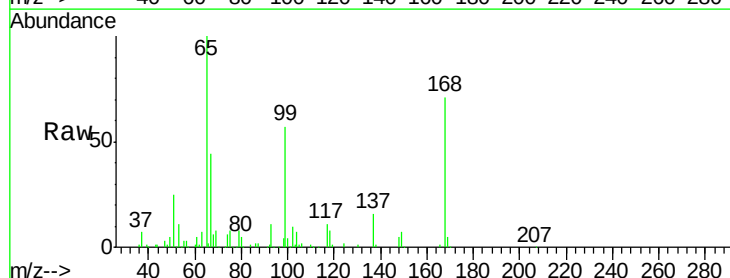
Instrument :
MSVOA_F
ClientSampleId :
2018-M-NYSEG-MCMaster-PH4-5

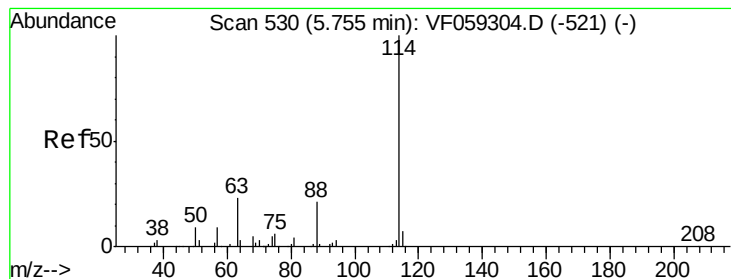
Tot Ion: 42 Resp: 1034
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 0.0 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 62.063 ug/l
RT: 4.99 min Scan# 452
Delta R.T. -0.02 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

Tgt Ion: 65 Resp: 113857
Ion Ratio Lower Upper
65 100
67 43.5 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 527

Delta R.T. -0.03 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

Instrument :

MSVOA_F

ClientSampleId :

2018-M-NYSEG-MCMaster-PH4-5(

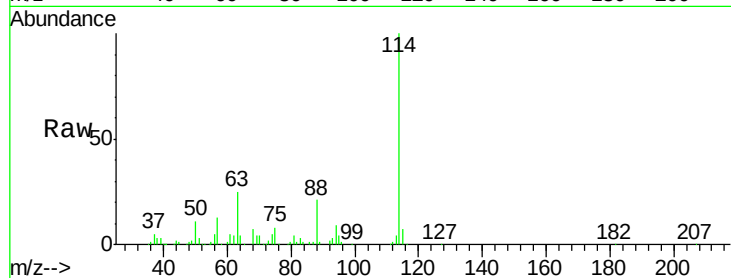
Tot Ion:114 Resp: 217406

Ion Ratio Lower Upper

114 100

63 25.4 0.0 45.8

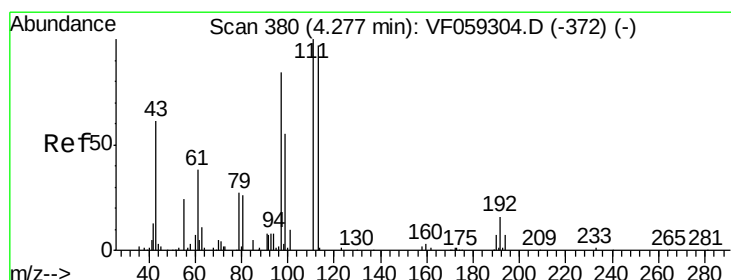
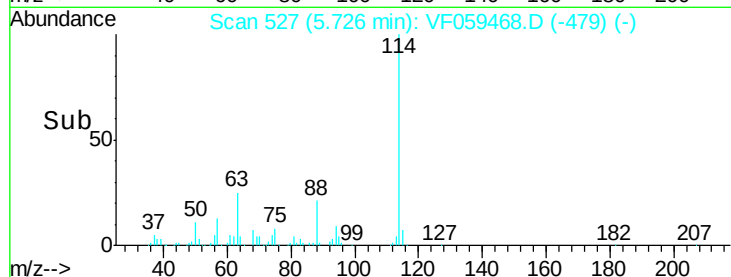
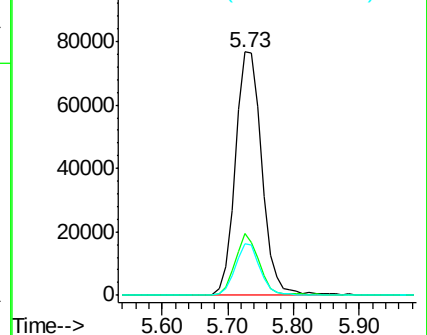
88 21.2 0.0 41.2



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: 61.463 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

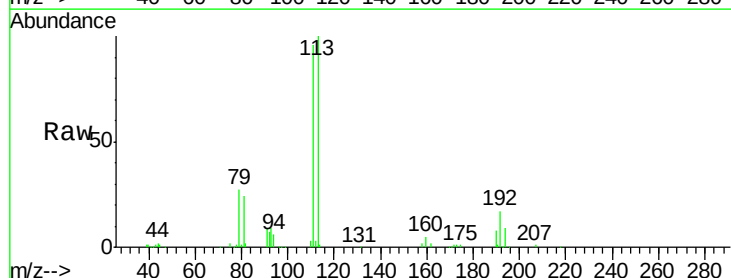
Tgt Ion:113 Resp: 97635

Ion Ratio Lower Upper

113 100

111 96.4 82.1 123.1

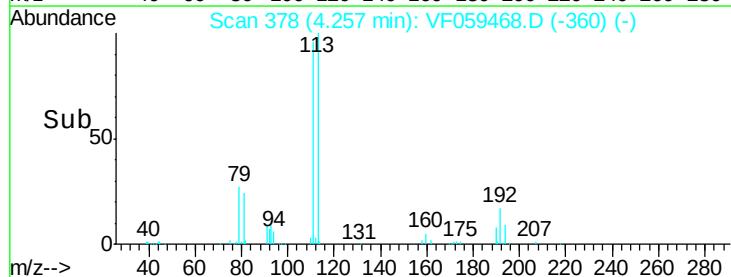
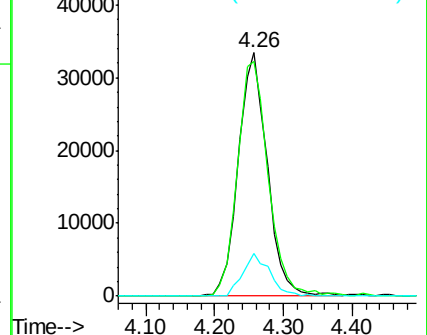
192 17.5 13.0 19.6

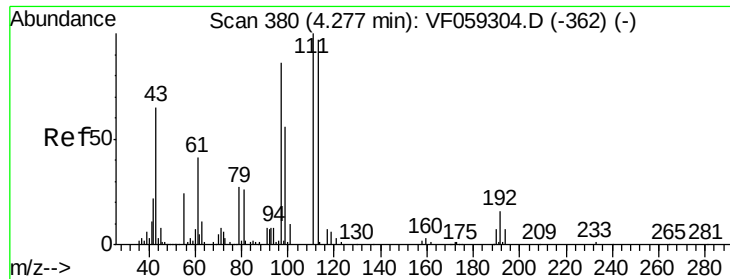


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

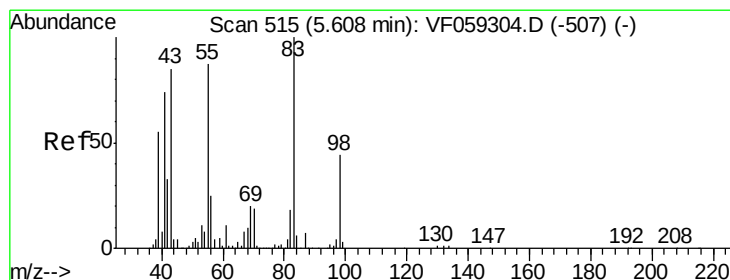
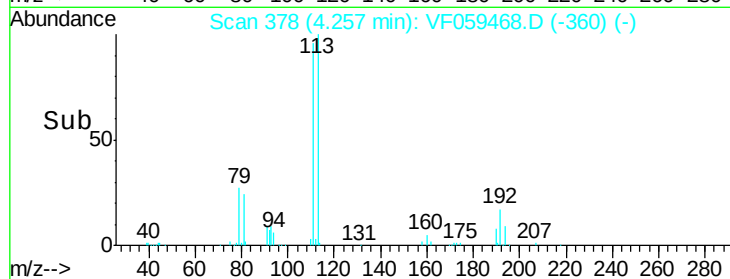
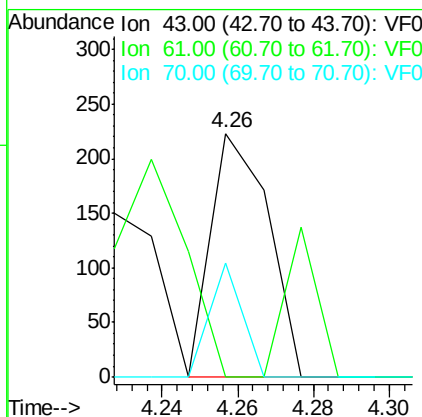
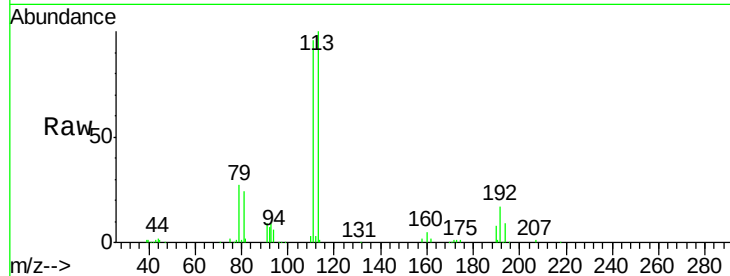




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.26 min Scan# 378
Delta R.T. -0.02 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

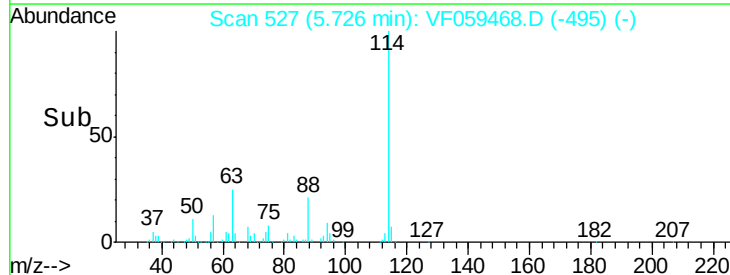
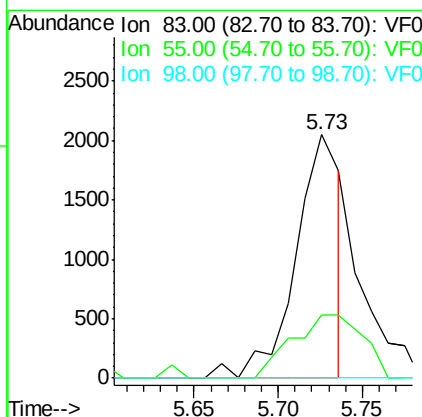
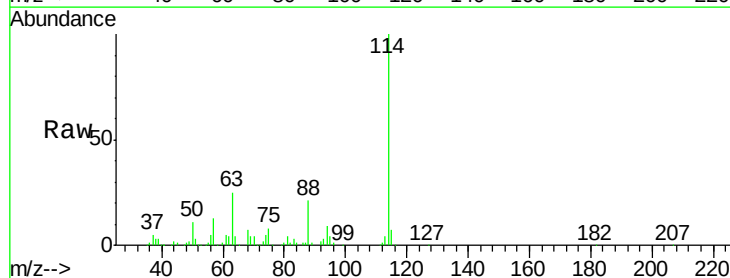
Instrument :
MSVOA_F
ClientSampleId :
2018-M-NYSEG-MCMaster-PH4-50

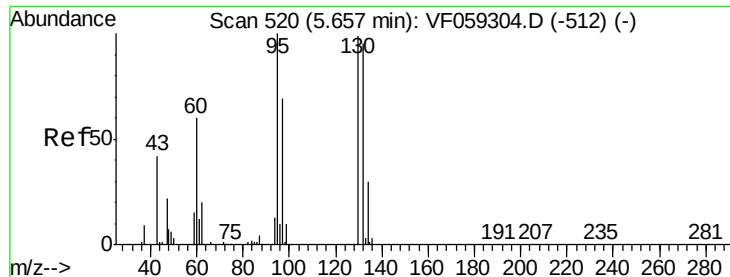
Tot Ion: 43 Resp: 233
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 46.6 6.2 9.4#



#39
Methylcyclohexane
Concen: 2.283 ug/l
RT: 5.73 min Scan# 527
Delta R.T. 0.12 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

Tgt Ion: 83 Resp: 3842
Ion Ratio Lower Upper
83 100
55 25.8 69.2 103.8#
98 0.0 35.0 52.6#





#44

Trichloroethene

Concen: 1.148 ug/l

RT: 5.64 min Scan# 518

Delta R.T. -0.02 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

Instrument :

MSVOA_F

ClientSampleId :

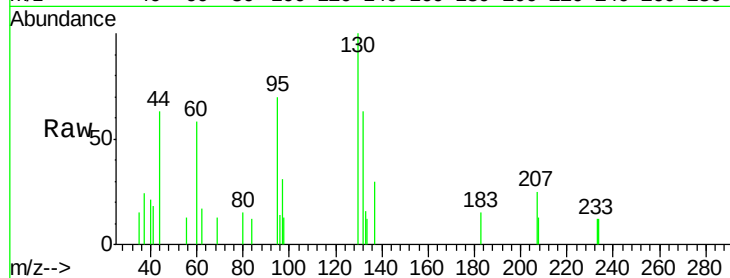
2018-M-NYSEG-MCMaster-PH4-50

Tot Ion:130 Resp: 1658

Ion Ratio Lower Upper

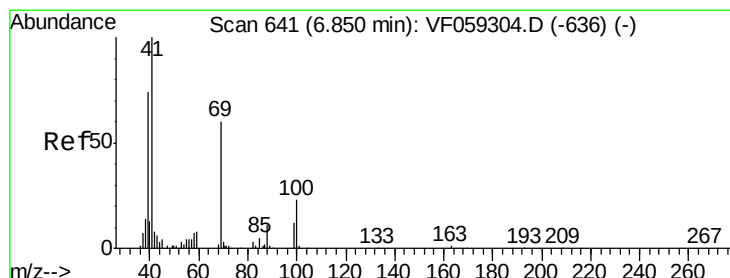
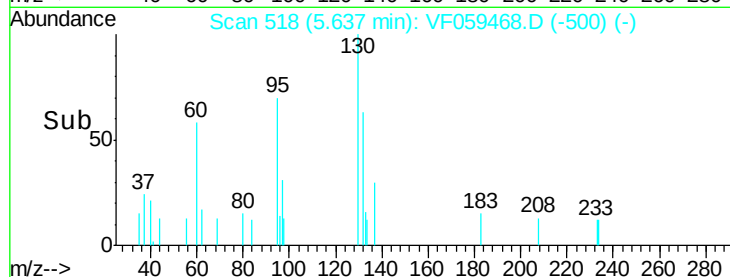
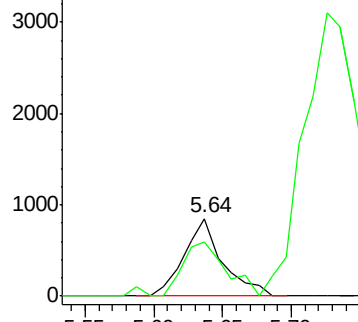
130 100

95 69.9 0.0 202.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.79 min Scan# 635

Delta R.T. -0.06 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

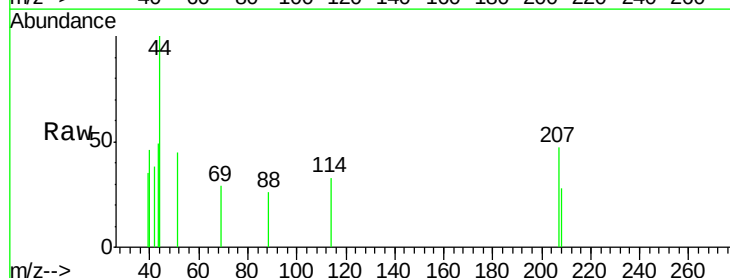
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 192.0 50.6 75.8#

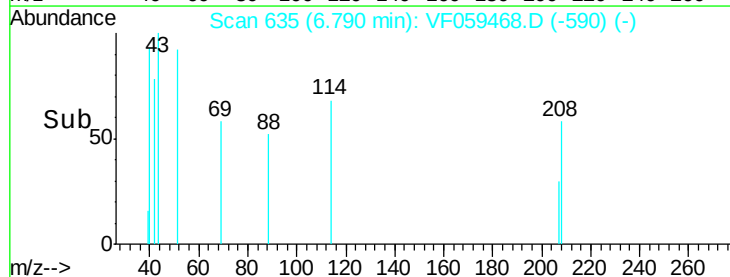
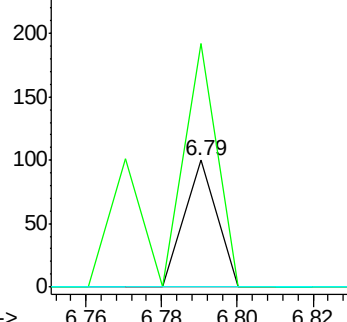
58 0.0 46.6 69.8#

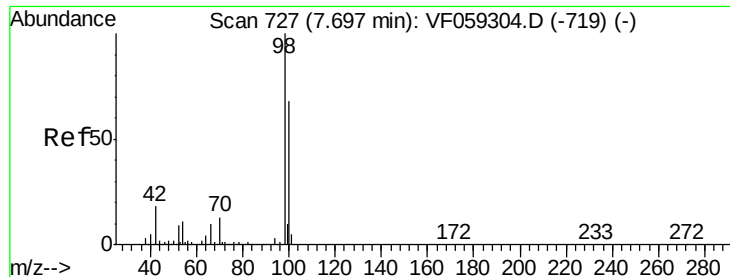


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 42.750 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

Instrument :

MSVOA_F

ClientSampleId :

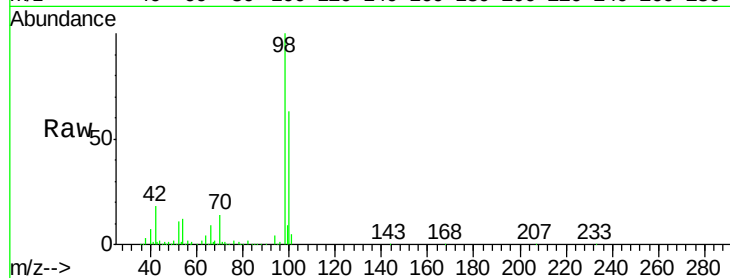
2018-M-NYSEG-MCMaster-PH4-5(

Tot Ion: 98 Resp: 168137

Ion Ratio Lower Upper

98 100

100 62.8 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.68

80000

60000

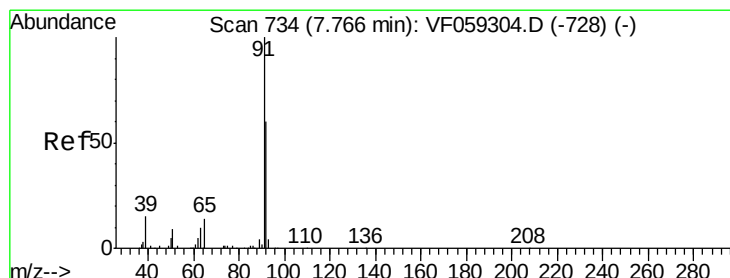
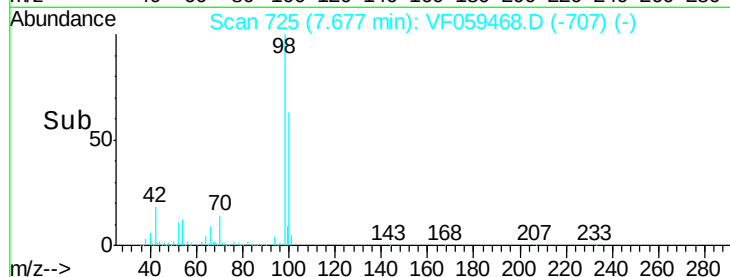
40000

20000

0

Time-->

7.60 7.70 7.80



#58

2-Chloroethyl Vinyl ether

Concen: 1.636 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059468.D

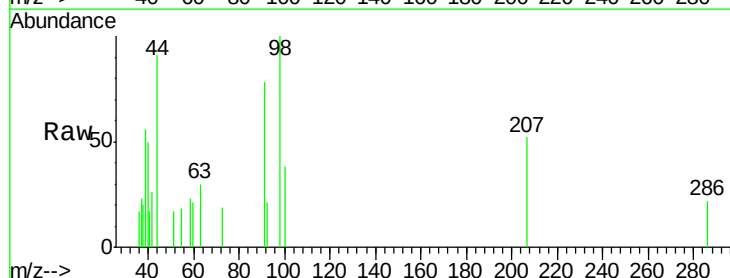
Acq: 6 Jul 2018 23:48

Tgt Ion: 63 Resp: 186

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.75

200

150

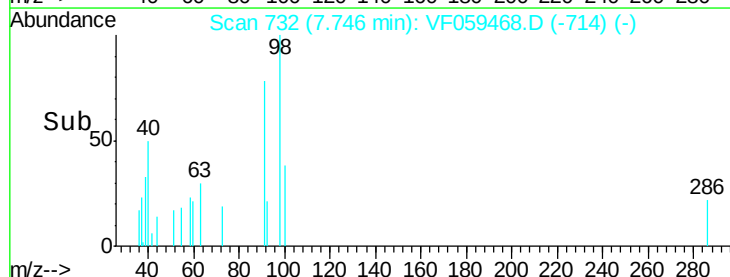
100

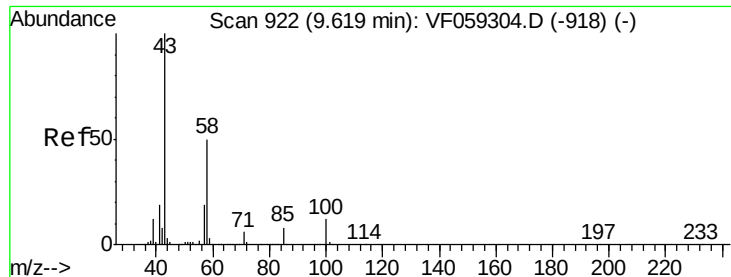
50

0

Time-->

7.70 7.72 7.74 7.76 7.78

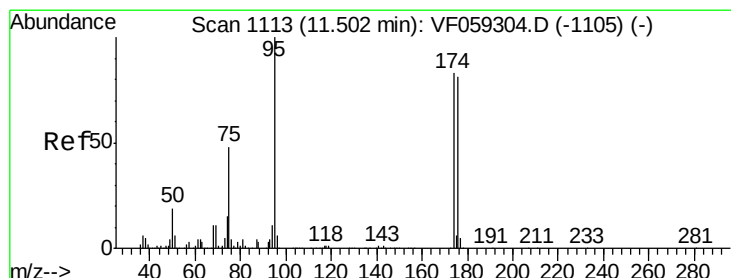
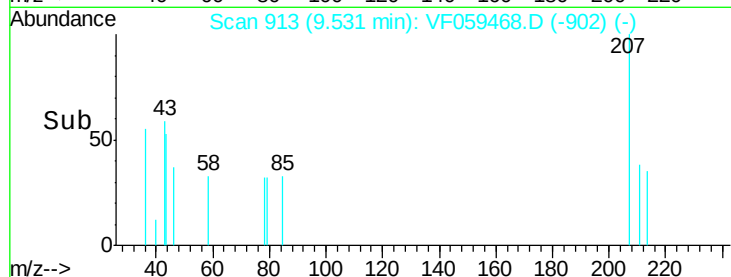
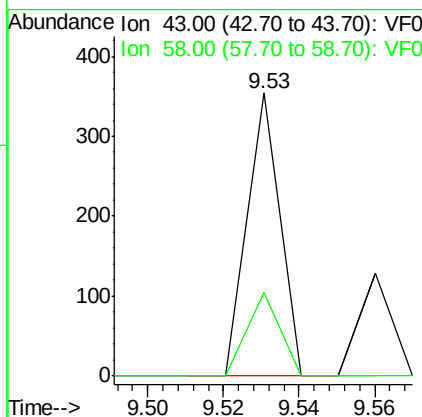
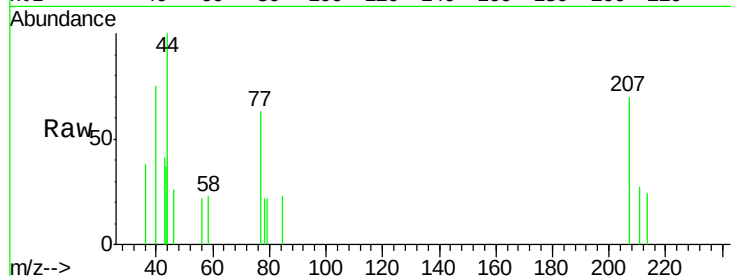




#59
2-Hexanone
Concen: Below Cal
RT: 9.53 min Scan# 913
Delta R.T. -0.09 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

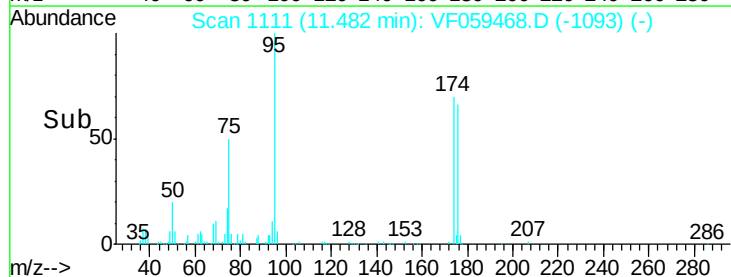
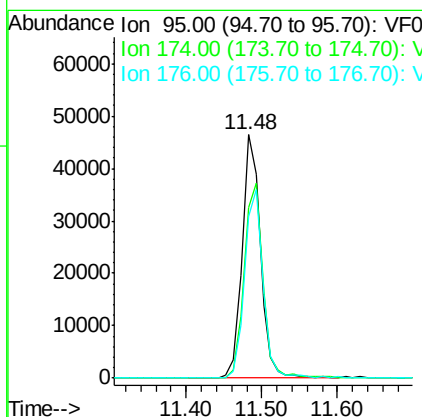
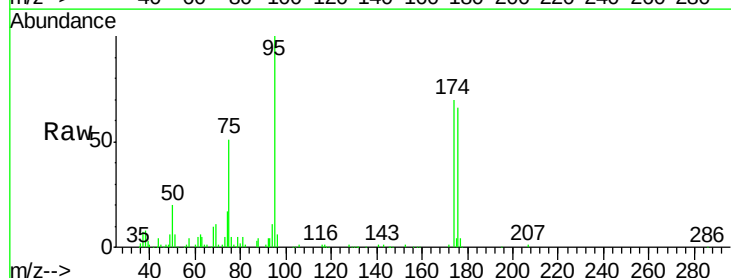
Instrument :
MSVOA_F
ClientSampleId :
2018-M-NYSEG-MCMaster-PH4-5(

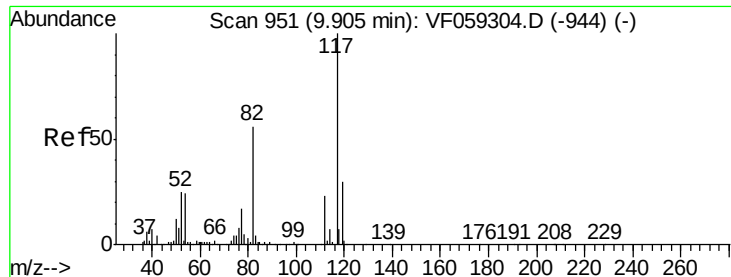
Tot Ion: 43 Resp: 209
Ion Ratio Lower Upper
43 100
58 29.7 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 34.940 ug/l
RT: 11.48 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

Tgt Ion: 95 Resp: 77518
Ion Ratio Lower Upper
95 100
174 70.3 0.0 165.2
176 66.3 0.0 161.0

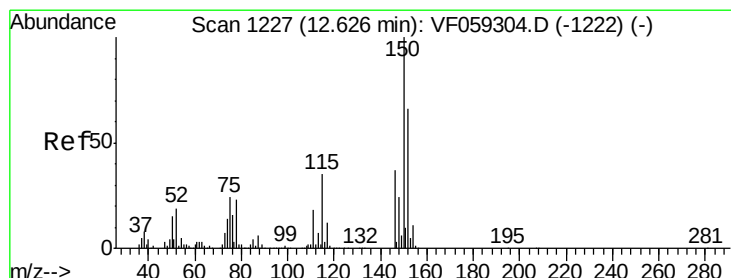
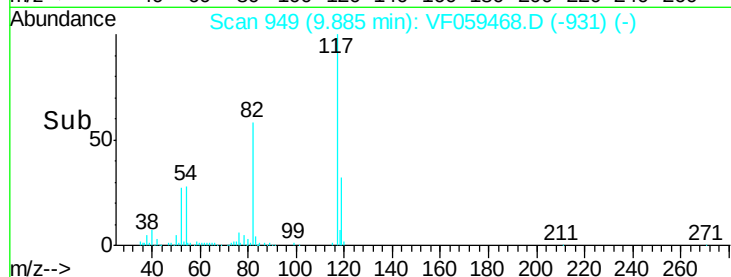
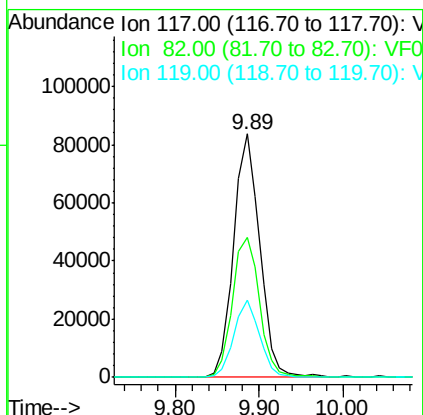
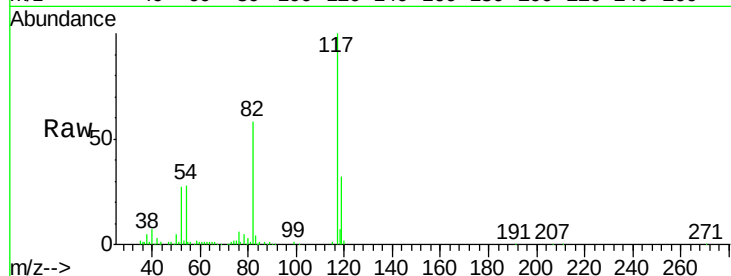




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

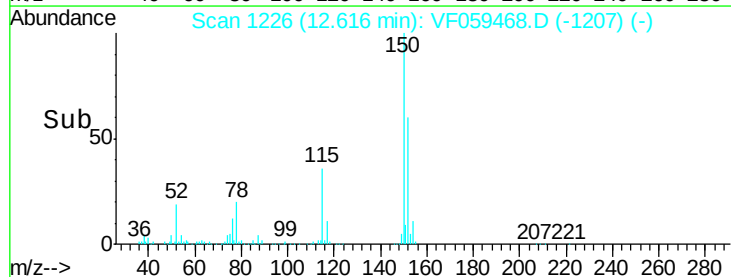
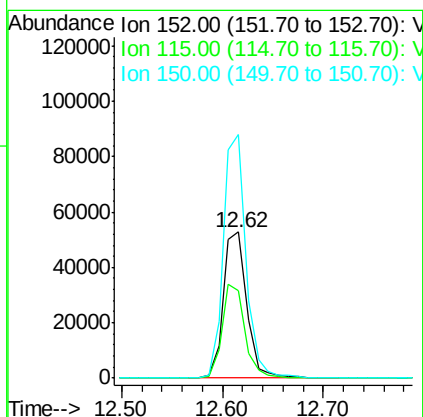
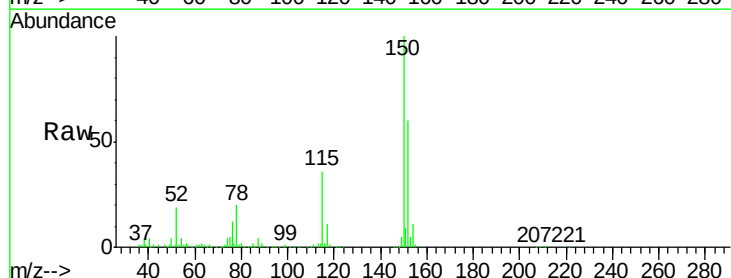
Instrument :
MSVOA_F
ClientSampleId :
2018-M-NYSEG-MCMaster-PH4-5

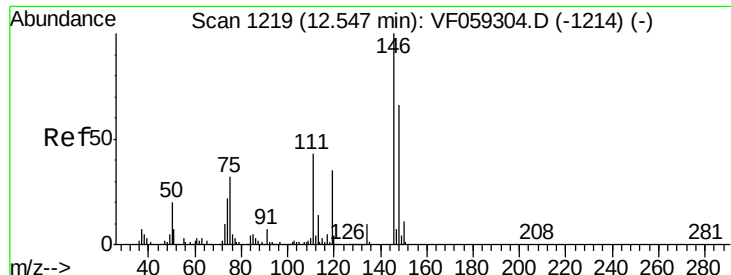
Tot Ion:117 Resp: 181848
Ion Ratio Lower Upper
117 100
82 57.5 44.6 66.8
119 31.6 24.1 36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF059468.D
Acq: 6 Jul 2018 23:48

Tgt Ion:152 Resp: 85413
Ion Ratio Lower Upper
152 100
115 59.6 27.1 81.3
150 166.9 0.0 305.2





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059468.D

Acq: 6 Jul 2018 23:48

Instrument :

MSVOA_F

ClientSampleId :

2018-M-NYSEG-MCMaster-PH4-5(

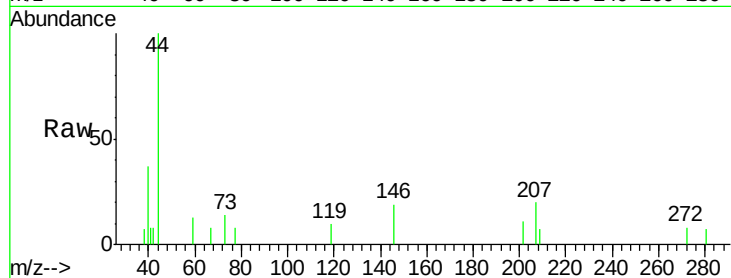
Tot Ion:146 Resp: 219

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

148 0.0 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

