

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059467.D
 Acq On : 6 Jul 2018 23:20
 Operator : VA/AP
 Sample : J3874-01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 2018-NYSEG-MCMaster-PH4-5(0-

Quant Time: Jul 07 01:53:04 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	0.00	168	0	0.00	ug/l	-5.03
34) 1,4-Difluorobenzene	5.96	114	64	50.00	ug/l	0.20
63) Chlorobenzene-d5	0.00	117	0	0.00	ug/l	-9.91
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.63

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	76	0.00	ug/l	-0.02
Spiked Amount 50.000			Recovery =	0.00%		
35) Dibromofluoromethane	4.40	113	74	158.25	ug/l	0.12
Spiked Amount 50.000			Recovery =	316.50%		
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery =	0.00%		
62) 4-Bromofluorobenzene	11.85	95	73	111.77	ug/l	0.35
Spiked Amount 50.000			Recovery =	223.54%		

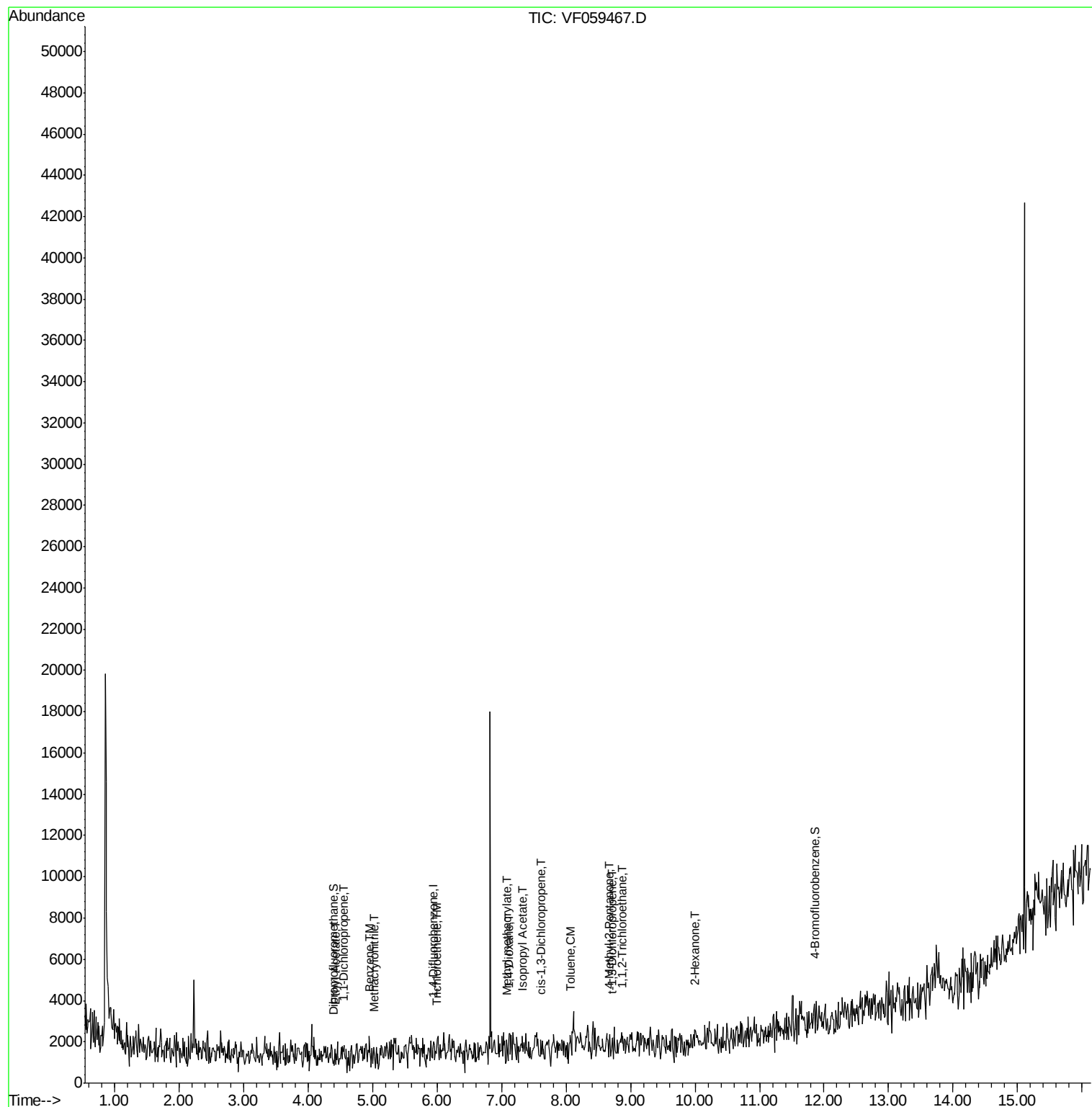
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.55	75	70	125.203	ug/l #	44
37) Ethyl Acetate	4.43	43	79	226.102	ug/l #	26
40) Benzene	4.96	78	66	53.242	ug/l #	51
41) Methacrylonitrile	5.04	41	125	655.433	ug/l #	31
43) Isopropyl Acetate	7.33	43	172	369.340	ug/l #	52
44) Trichloroethene	5.99	130	60	141.095	ug/l	1
48) Methyl methacrylate	7.09	41	166	531.849	ug/l #	11
49) 1,4-Dioxane	7.11	88	63	39466.801	ug/l #	1
51) 4-Methyl-2-Pentanone	8.67	43	63	182.603	ug/l #	39
52) Toluene	8.06	92	67	72.231	ug/l #	1
53) t-1,3-Dichloropropene	8.71	75	93	137.112	ug/l #	43
54) cis-1,3-Dichloropropene	7.61	75	81	109.941	ug/l #	23
55) 1,1,2-Trichloroethane	8.87	97	171	474.801	ug/l #	13
59) 2-Hexanone	9.99	43	60	230.146	ug/l #	30

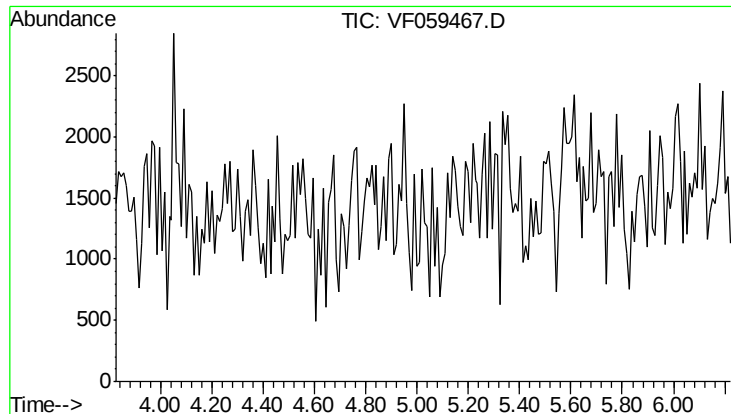
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.03 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Tot Ion: 168

Sig Exp Ratio

168 100

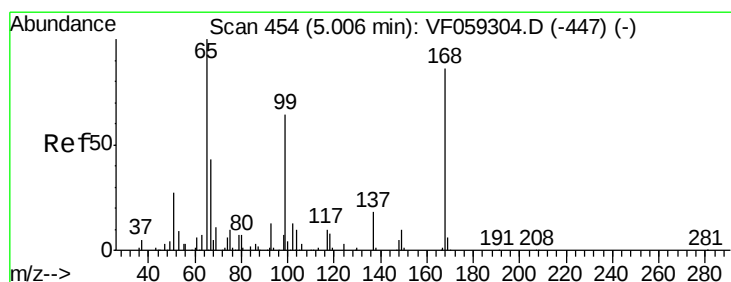
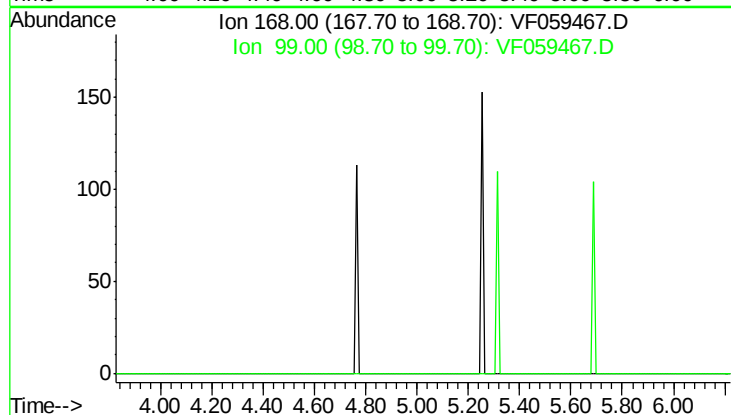
99 68.6

Instrument :

MSVOA_F

ClientSampleId :

2018-NYSEG-MCMaster-PH4-5(0-



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.99 min Scan# 452

Delta R.T. -0.02 min

Lab File: VF059467.D

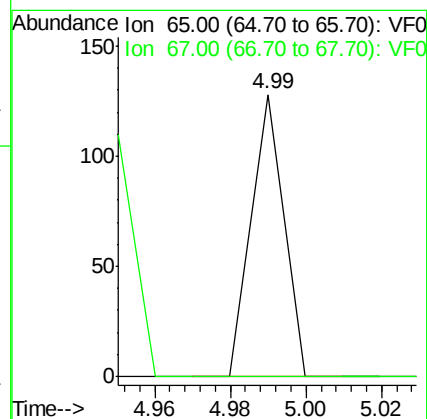
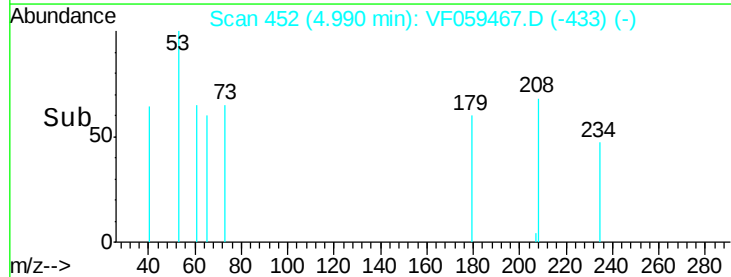
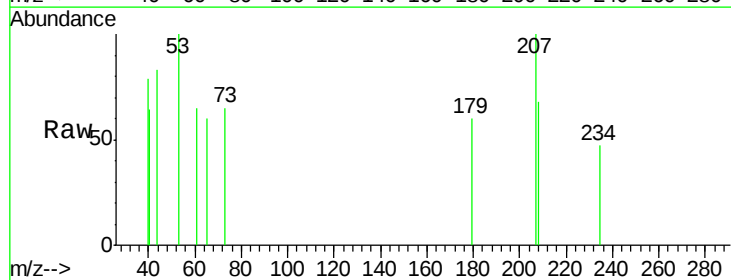
Acq: 6 Jul 2018 23:20

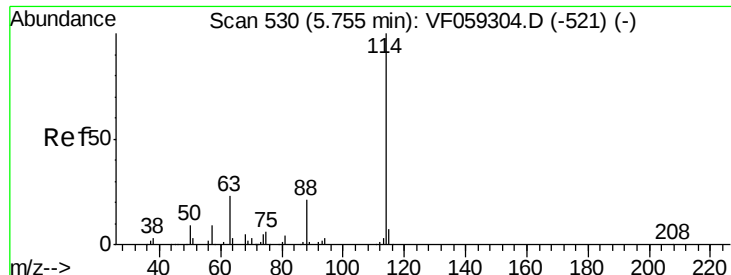
Tgt Ion: 65 Resp: 76

Ion Ratio Lower Upper

65 100

67 0.0 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.96 min Scan# 550

Delta R.T. 0.20 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Instrument :

MSVOA_F

ClientSampleId :

2018-NYSEG-MCMaster-PH4-5(0-

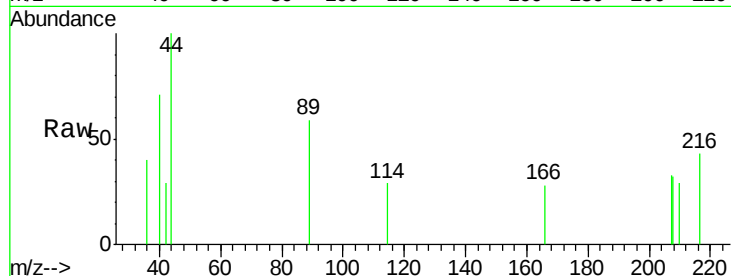
Tot Ion:114 Resp: 64

Ion Ratio Lower Upper

114 100

63 0.0 0.0 45.8

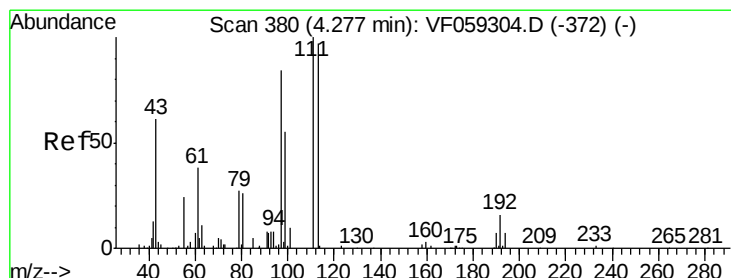
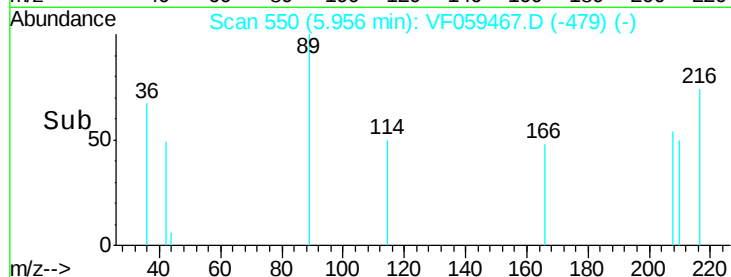
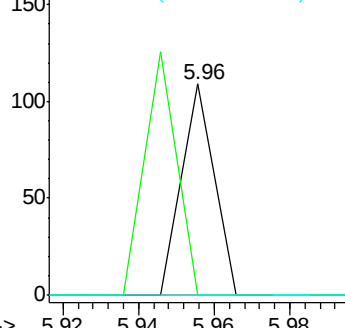
88 0.0 0.0 41.2



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: 158.246 ug/l

RT: 4.40 min Scan# 392

Delta R.T. 0.12 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

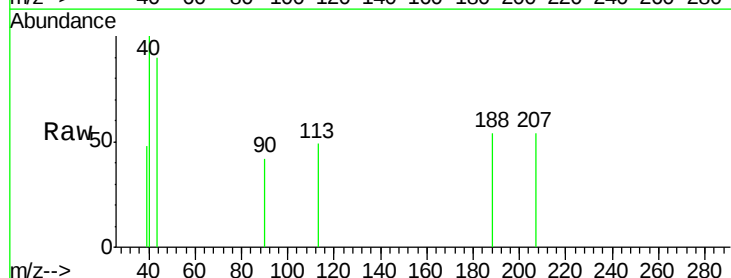
Tgt Ion:113 Resp: 74

Ion Ratio Lower Upper

113 100

111 0.0 82.1 123.1#

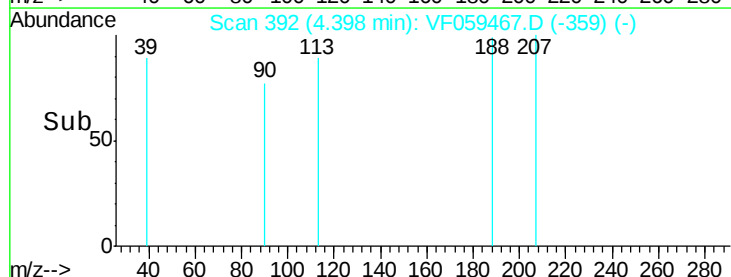
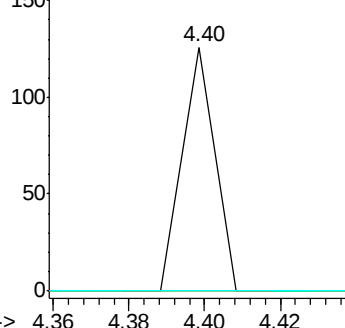
192 0.0 13.0 19.6#

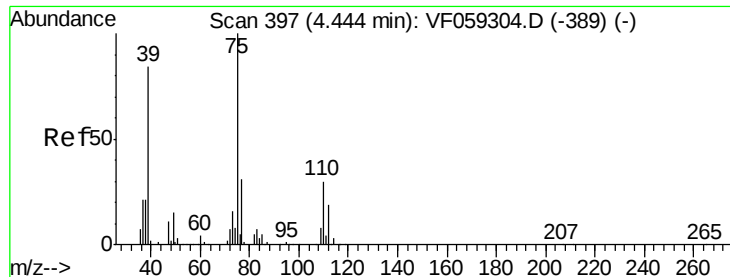


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 125.203 ug/l

RT: 4.55 min Scan# 407

Delta R.T. 0.10 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Instrument :

MSVOA_F

ClientSampleId :

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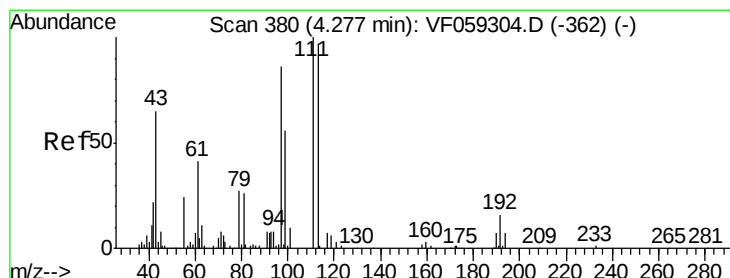
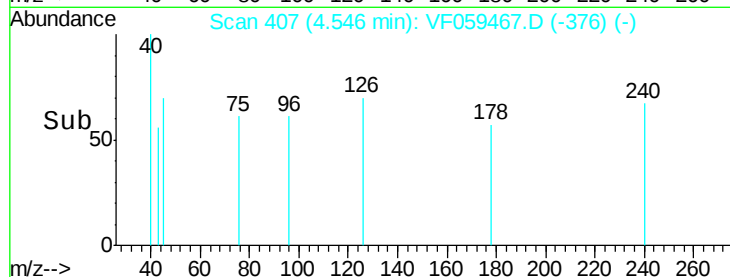
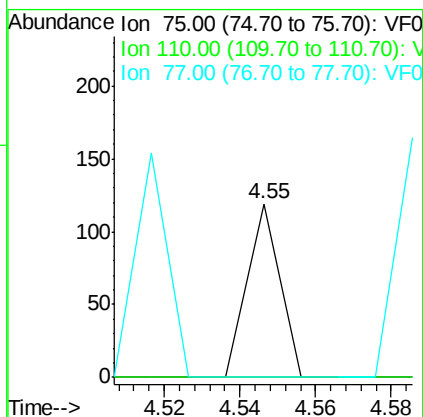
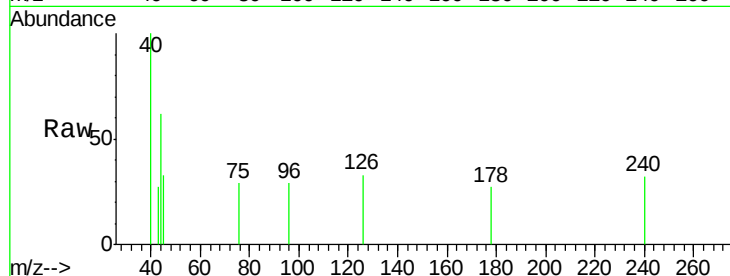
Tot Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

110 0.0 14.8 44.4#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 226.102 ug/l

RT: 4.43 min Scan# 395

Delta R.T. 0.15 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

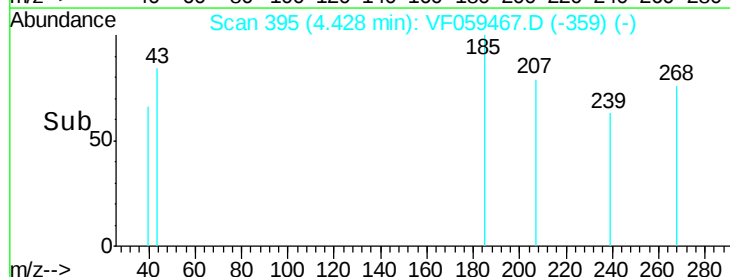
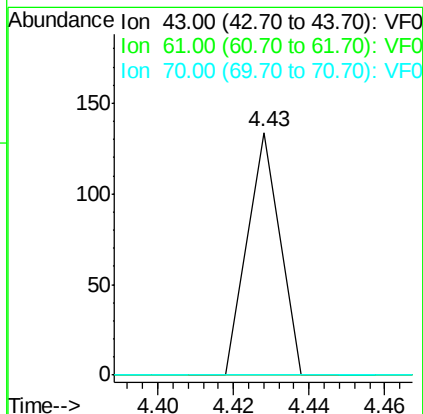
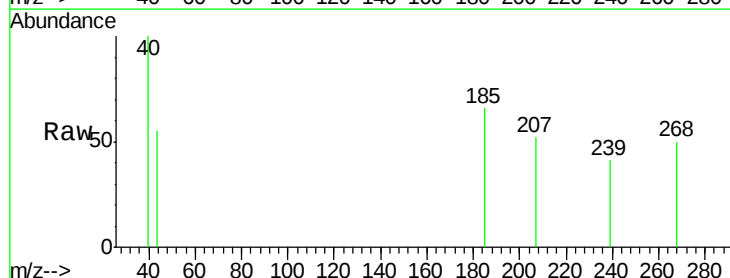
Tgt Ion: 43 Resp: 79

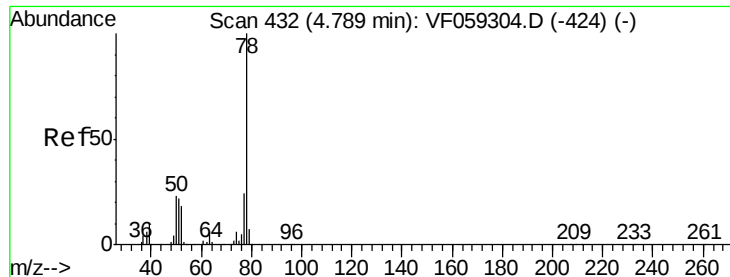
Ion Ratio Lower Upper

43 100

61 0.0 50.1 75.1#

70 0.0 6.2 9.4#





#40

Benzene

Concen: 53.242 ug/l

RT: 4.96 min Scan# 449

Delta R.T. 0.17 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Instrument :

MSVOA_F

ClientSampleId :

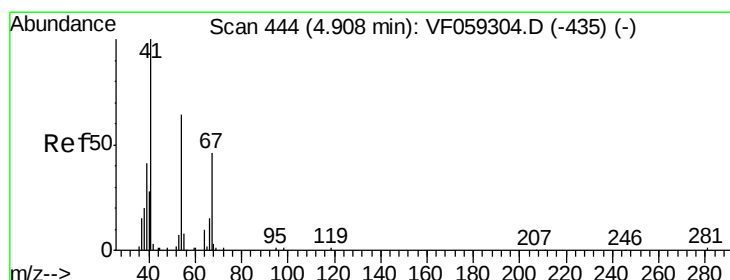
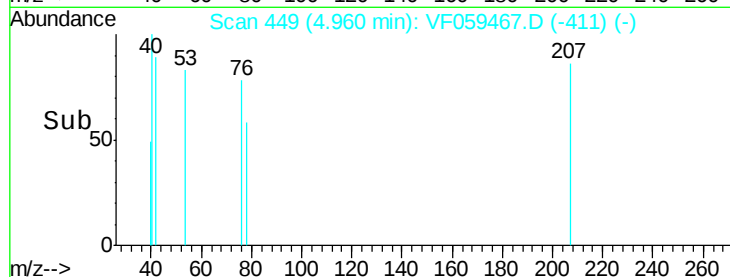
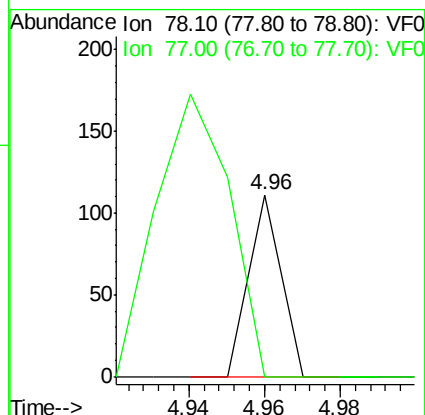
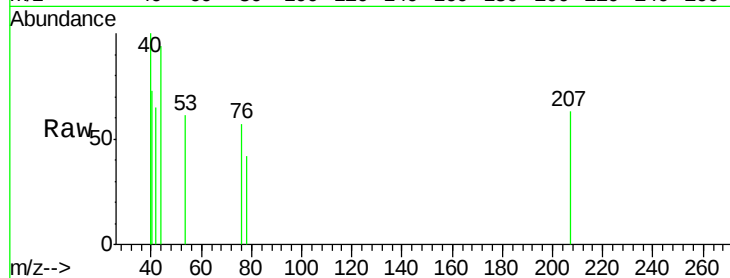
2018-NYSEG-MCMaster-PH4-5(0-

Tot Ion: 78 Resp: 66

Ion Ratio Lower Upper

78 100

77 0.0 19.6 29.4#



#41

Methacrylonitrile

Concen: 655.433 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.13 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Tgt Ion: 41 Resp: 125

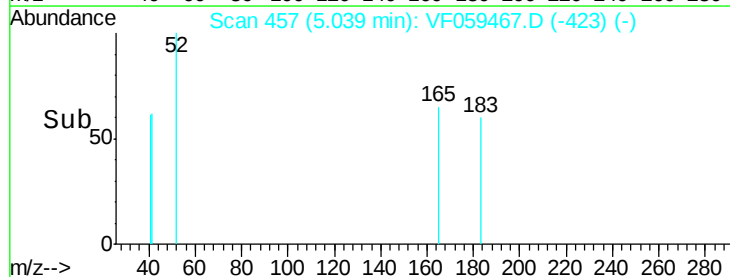
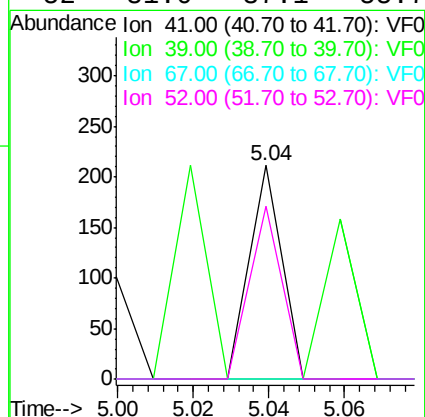
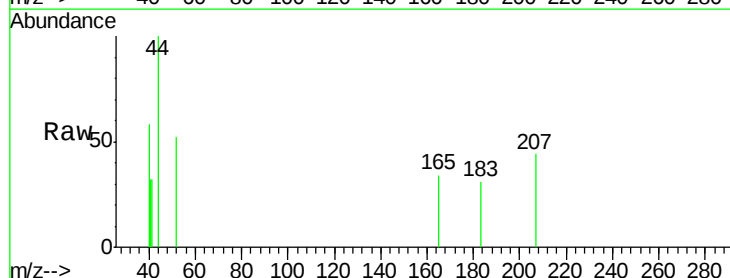
Ion Ratio Lower Upper

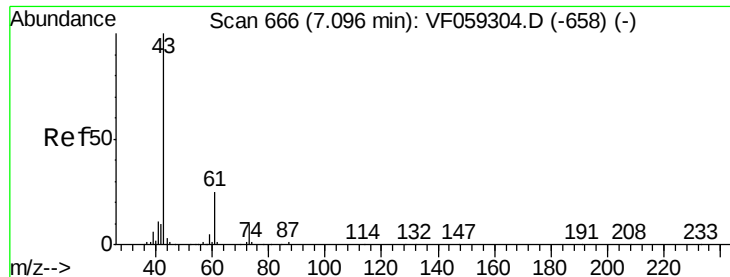
41 100

39 0.0 50.0 75.0#

67 0.0 37.0 55.6#

52 81.0 37.1 55.7#





#43

Isopropyl Acetate

Concen: 369.340 ug/l

RT: 7.33 min Scan# 689

Delta R.T. 0.23 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Instrument :

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ClientSampleId :

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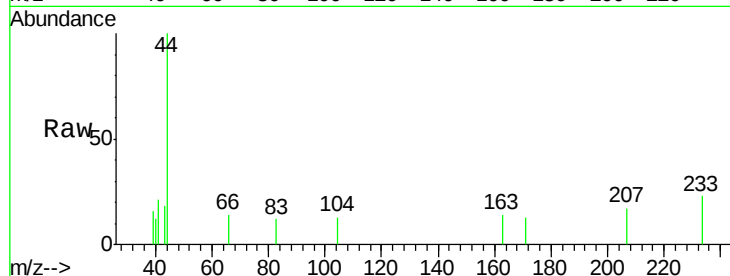
Tot Ion: 43 Resp: 172

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

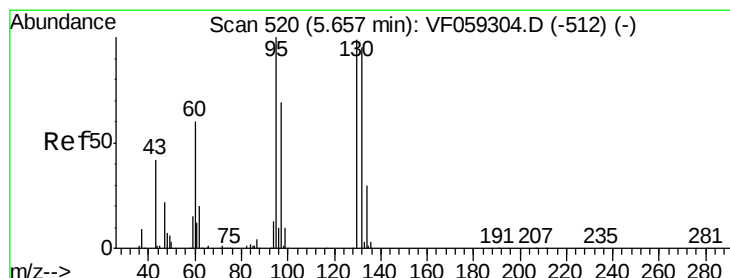
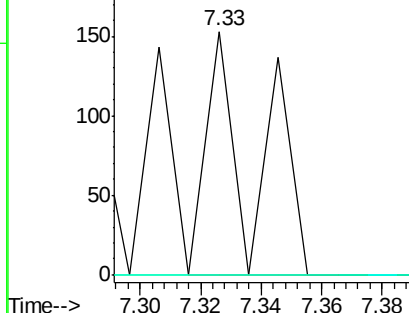
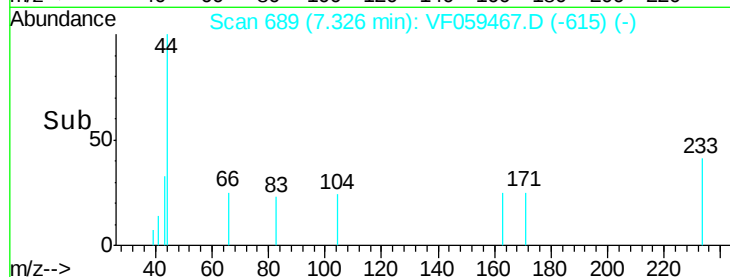
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 141.095 ug/l

RT: 5.99 min Scan# 553

Delta R.T. 0.33 min

Lab File: VF059467.D

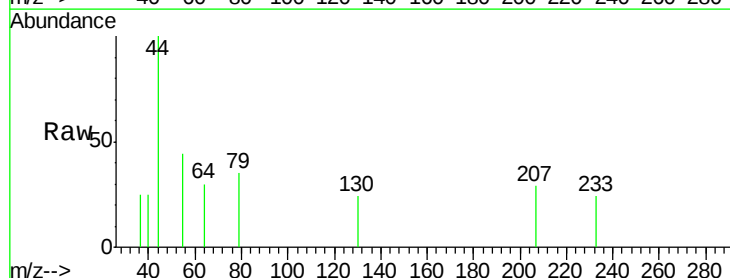
Acq: 6 Jul 2018 23:20

Tgt Ion: 130 Resp: 60

Ion Ratio Lower Upper

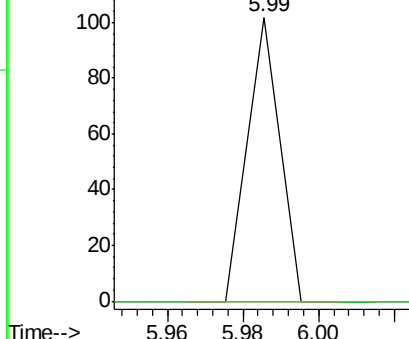
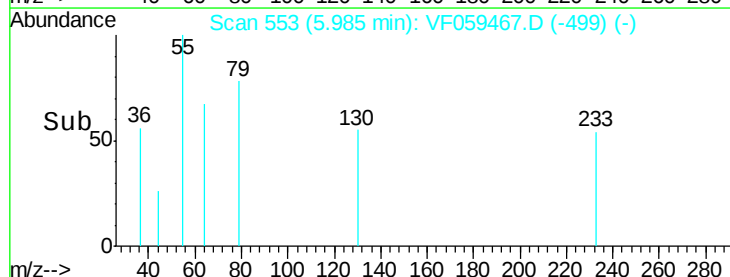
130 100

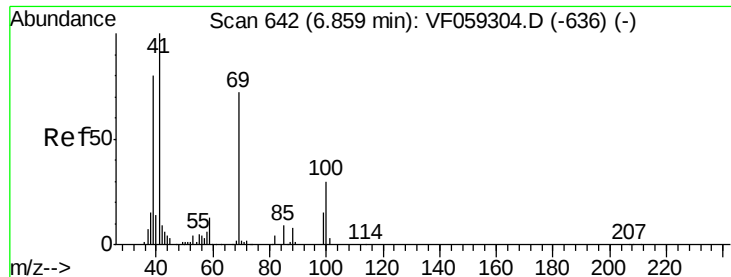
95 0.0 0.0 202.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

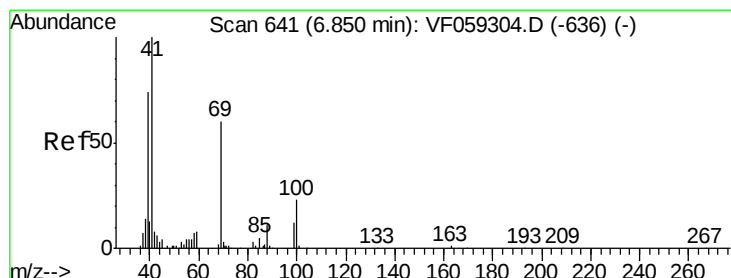
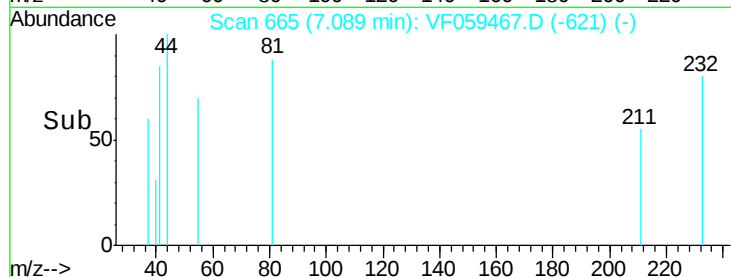
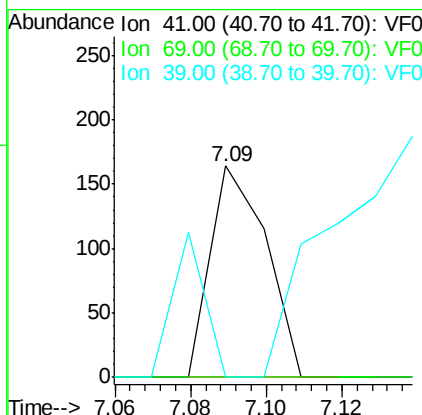
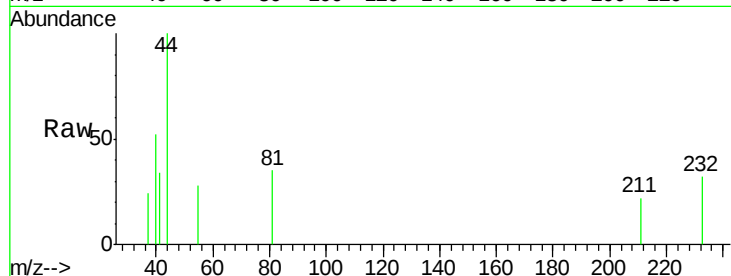




#48
Methyl methacrylate
Concen: 531.849 ug/l
RT: 7.09 min Scan# 665
Delta R.T. 0.23 min
Lab File: VF059467.D
Acq: 6 Jul 2018 23:20

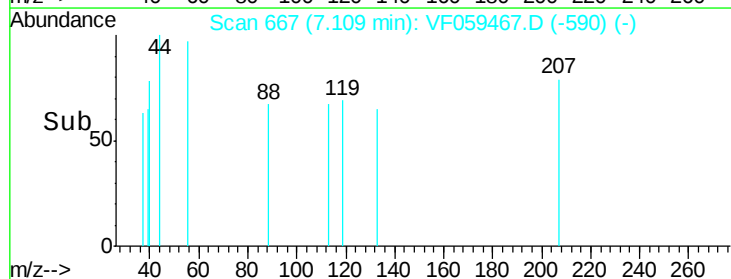
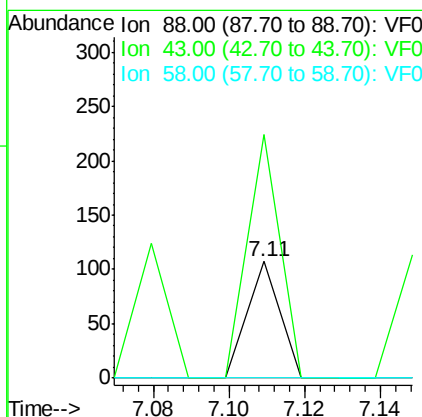
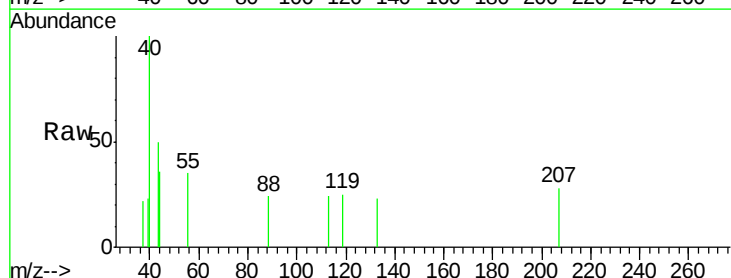
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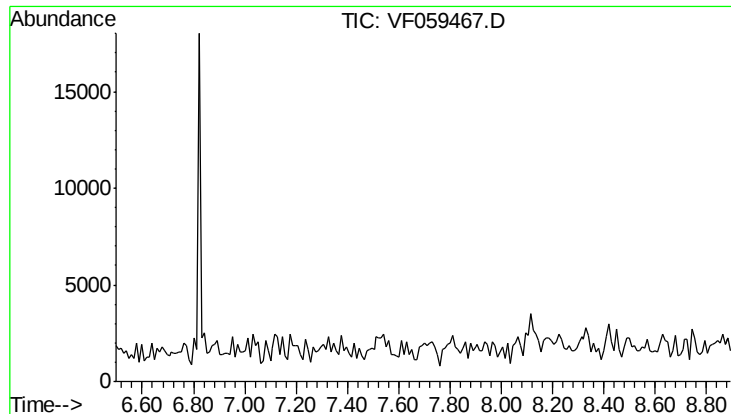
Tot Ion: 41 Resp: 166
Ion Ratio Lower Upper
41 100
69 0.0 57.3 85.9#
39 0.0 64.4 96.6#



#49
1,4-Dioxane
Concen: 39466.801 ug/l
RT: 7.11 min Scan# 667
Delta R.T. 0.26 min
Lab File: VF059467.D
Acq: 6 Jul 2018 23:20

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 209.3 50.6 75.8#
58 0.0 46.6 69.8#

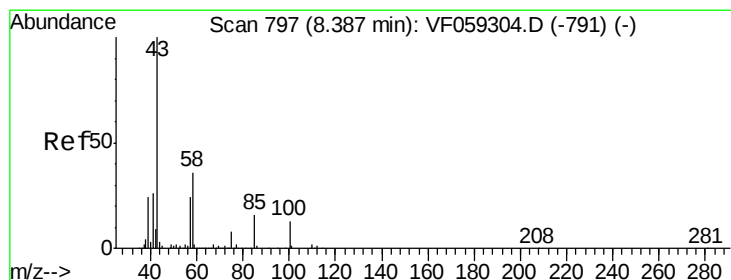
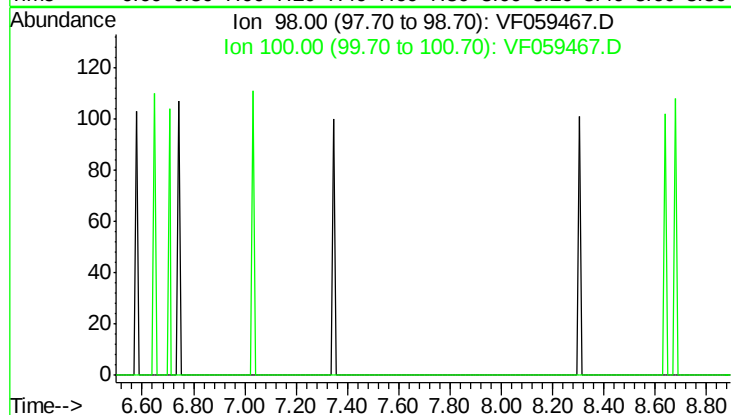




#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.70 min
Lab File: VF059467.D
Acq: 6 Jul 2018 23:20

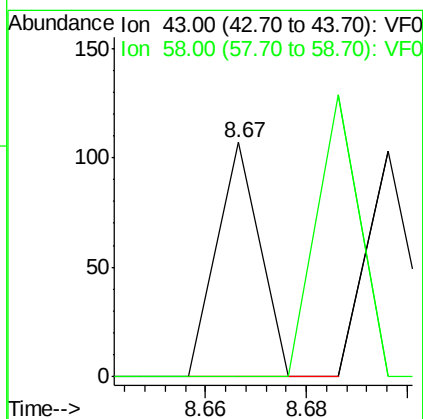
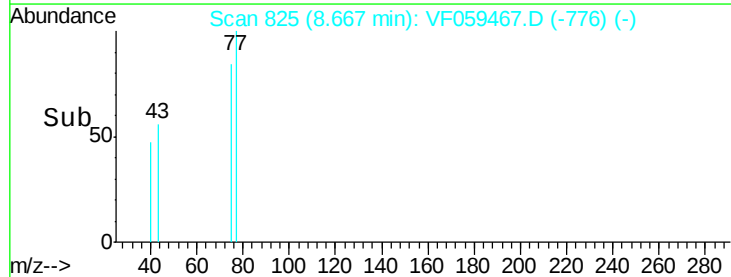
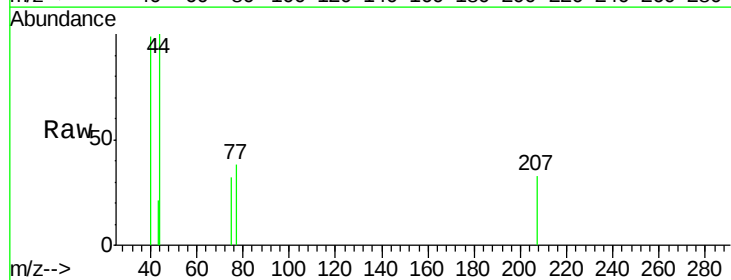
Instrument :
MSVOA_F
ClientSampleId :
2018-NYSEG-MCMaster-PH4-5(0-

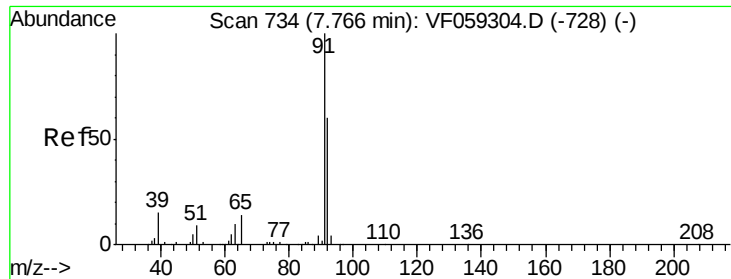
Tot Ion: 98
Sig Exp Ratio
98 100
100 68.3



#51
4-Methyl-2-Pentanone
Concen: 182.603 ug/l
RT: 8.67 min Scan# 825
Delta R.T. 0.28 min
Lab File: VF059467.D
Acq: 6 Jul 2018 23:20

Tgt Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
58 0.0 28.4 42.6#





#52

Toluene

Concen: 72.231 ug/l

RT: 8.06 min Scan# 763

Delta R.T. 0.29 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Instrument :

MSVOA_F

ClientSampleId :

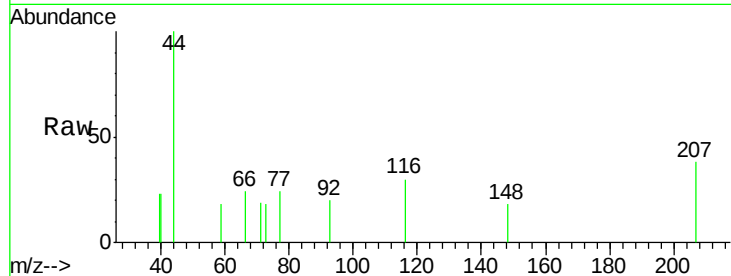
2018-NYSEG-MCMaster-PH4-5(0-

Tot Ion: 92 Resp: 67

Ion Ratio Lower Upper

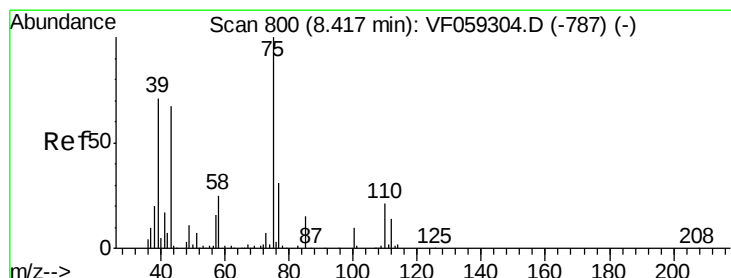
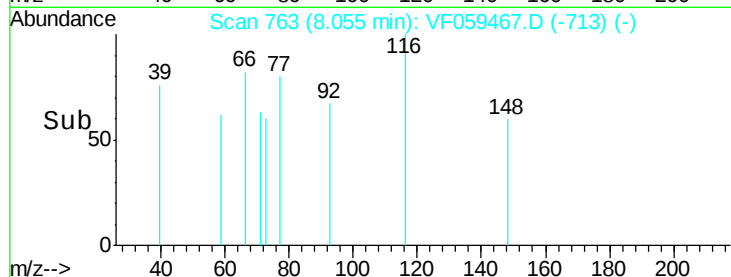
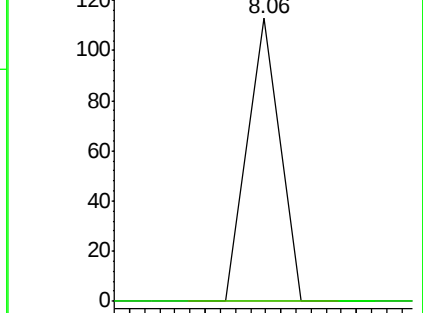
92 100

91 0.0 132.8 199.2#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 137.112 ug/l

RT: 8.71 min Scan# 829

Delta R.T. 0.29 min

Lab File: VF059467.D

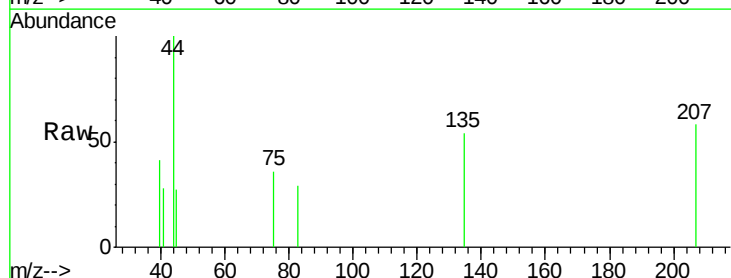
Acq: 6 Jul 2018 23:20

Tgt Ion: 75 Resp: 93

Ion Ratio Lower Upper

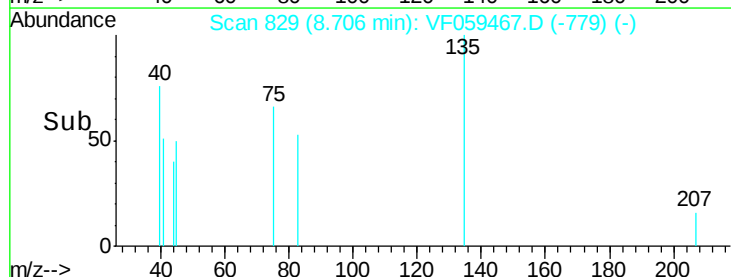
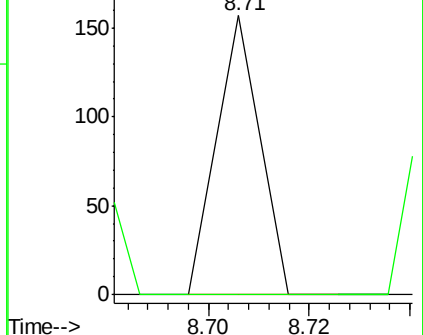
75 100

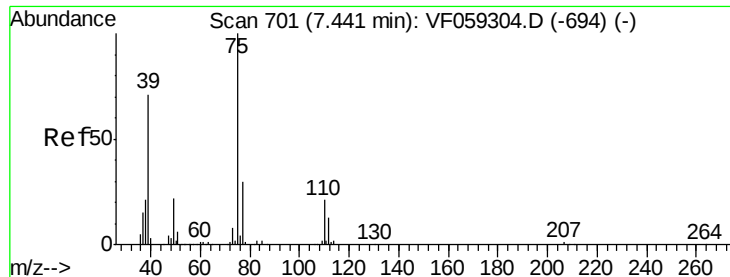
77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 109.941 ug/l

RT: 7.61 min Scan# 718

Delta R.T. 0.17 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Instrument :

MSVOA_F

ClientSampleId :

2018-NYSEG-MCMaster-PH4-5(0-

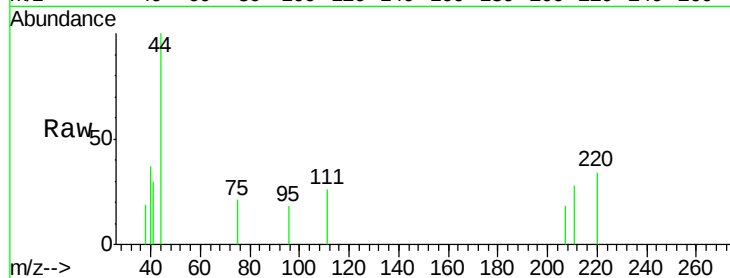
Tot Ion: 75 Resp: 81

Ion Ratio Lower Upper

75 100

77 0.0 24.3 36.5#

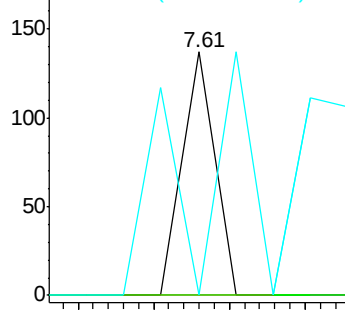
39 0.0 57.2 85.8#



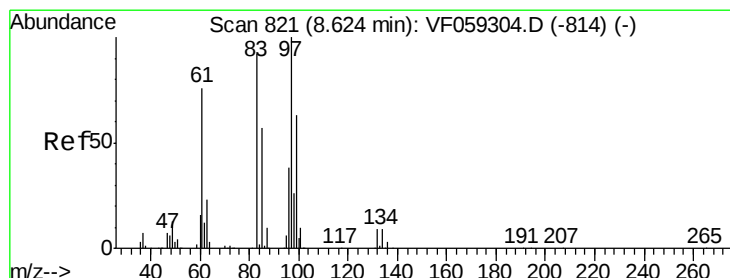
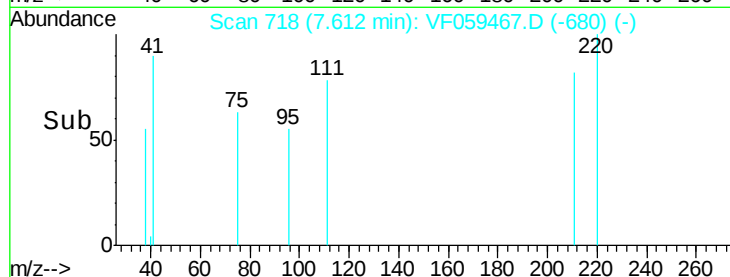
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#55

1,1,2-Trichloroethane

Concen: 474.801 ug/l

RT: 8.87 min Scan# 846

Delta R.T. 0.25 min

Lab File: VF059467.D

Acq: 6 Jul 2018 23:20

Tgt Ion: 97 Resp: 171

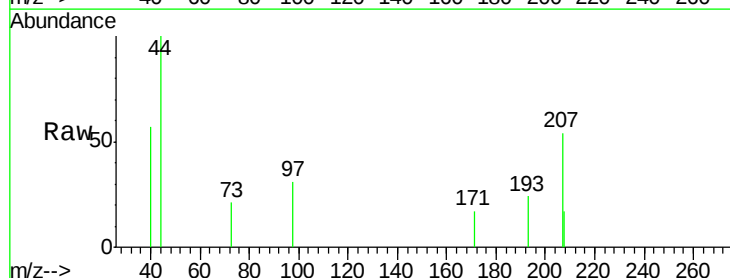
Ion Ratio Lower Upper

97 100

83 0.0 73.8 110.8#

85 0.0 45.5 68.3#

99 0.0 50.7 76.1#

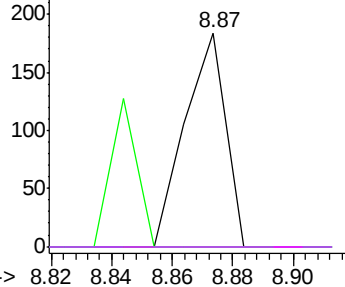


Abundance Ion 97.00 (96.70 to 97.70): VF0

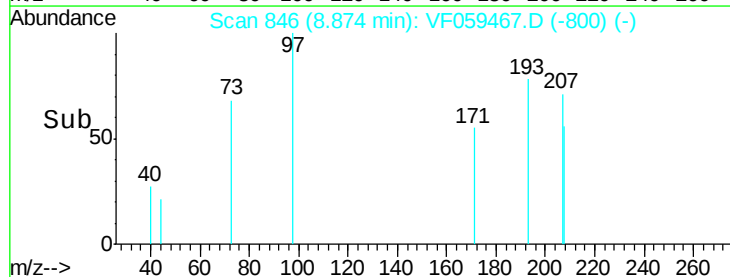
Ion 82.95 (82.65 to 83.65): VF0

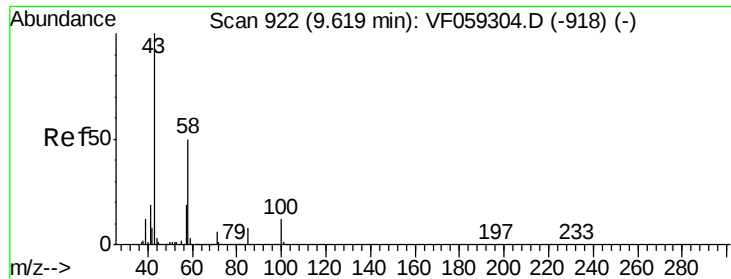
Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



Time-->

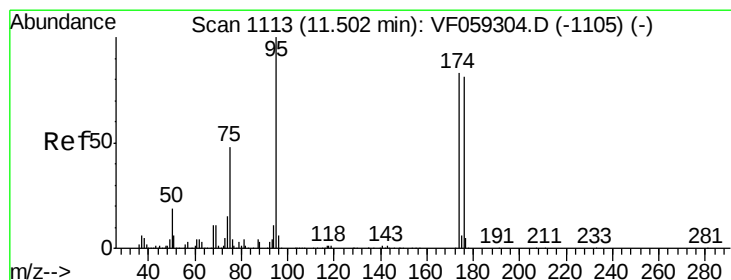
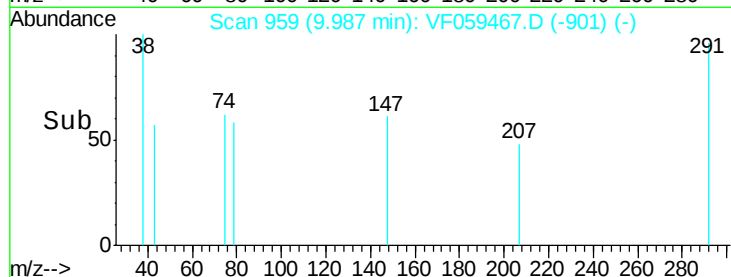
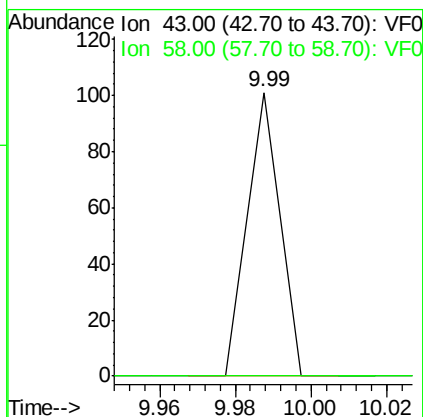
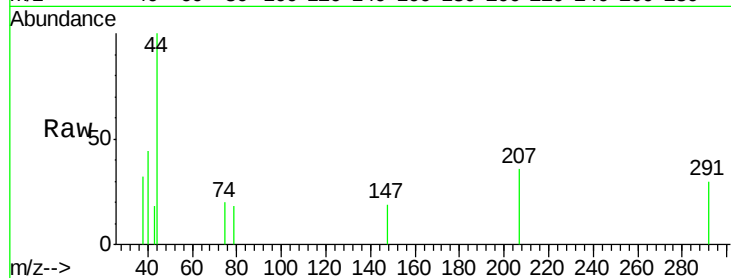




#59
2-Hexanone
Concen: 230.146 ug/l
RT: 9.99 min Scan# 959
Delta R.T. 0.37 min
Lab File: VF059467.D
Acq: 6 Jul 2018 23:20

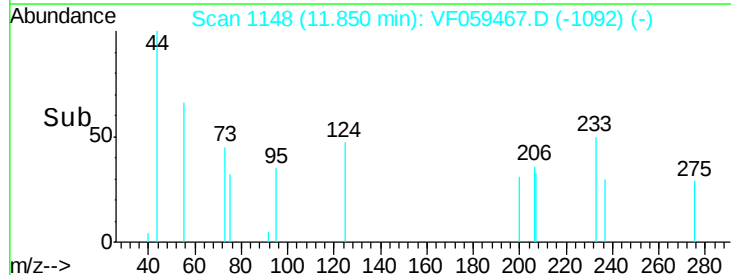
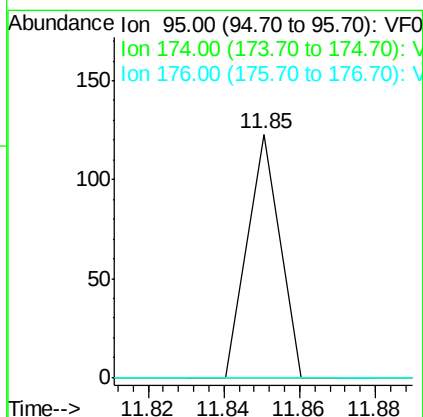
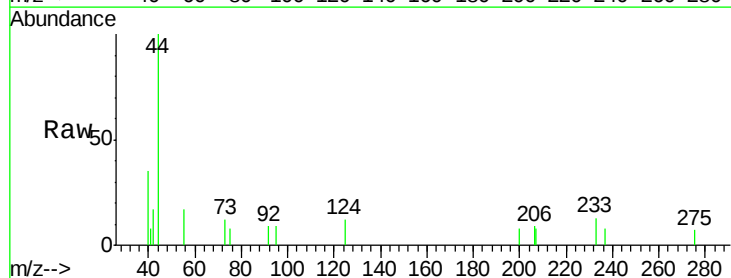
Instrument :
MSVOA_F
ClientSampleId :
2018-NYSEG-MCMaster-PH4-5(0-

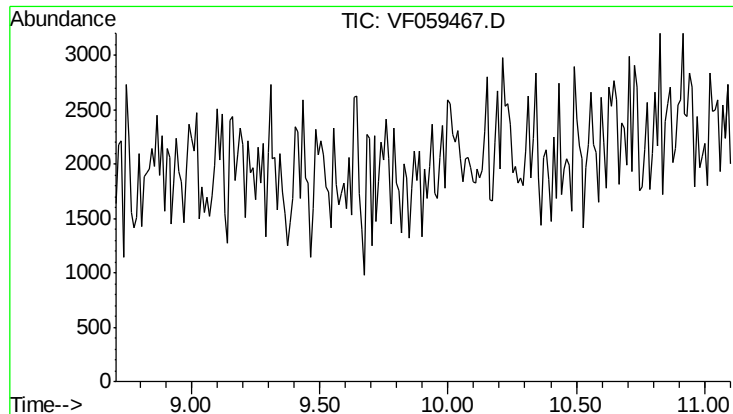
Tot Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 111.774 ug/l
RT: 11.85 min Scan# 1148
Delta R.T. 0.35 min
Lab File: VF059467.D
Acq: 6 Jul 2018 23:20

Tgt Ion: 95 Resp: 73
Ion Ratio Lower Upper
95 100
174 0.0 0.0 165.2
176 0.0 0.0 161.0

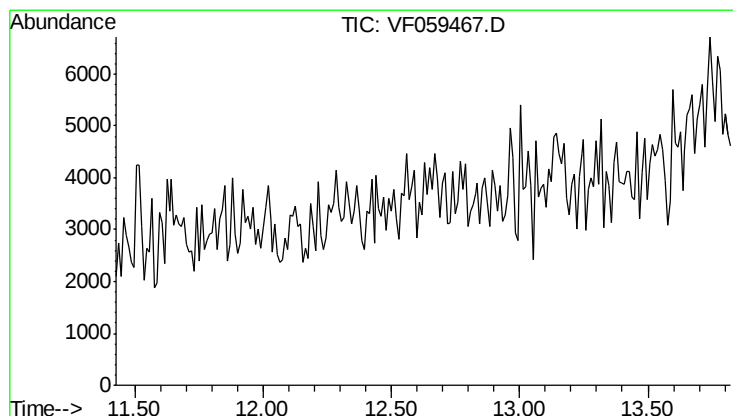
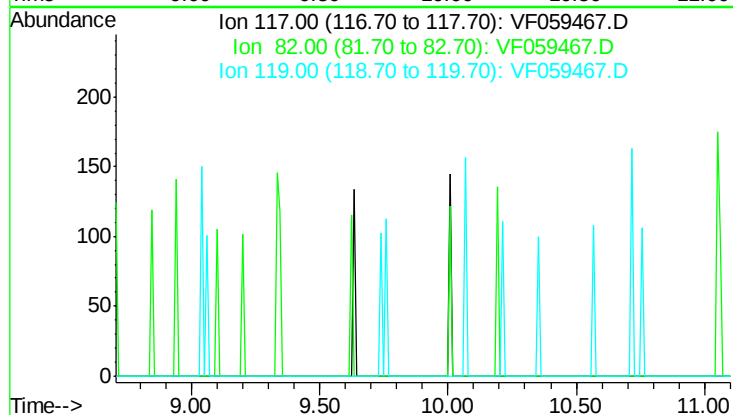




#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.91 min
 Lab File: VF059467.D
 Acq: 6 Jul 2018 23:20

Instrument :
 MSVOA_F
 ClientSampleId :
 2018-NYSEG-MCMaster-PH4-5(0-

Tot Ion	117
Sig	Exp Ratio
117	100
82	55.7
119	30.1



#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.63 min
 Lab File: VF059467.D
 Acq: 6 Jul 2018 23:20

Tgt Ion	152
Sig	Exp Ratio
152	100
115	54.2
150	152.6

