

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF062218\
 Data File : VF059289.D
 Acq On : 22 Jun 2018 22:23
 Operator : VA/AP
 Sample : J3632-02
 Misc : 6.76g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EPE-105-4(65-67)

Quant Time: Jun 23 04:38:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 22 05:22:31 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	-5.04
34) 1,4-Difluorobenzene	5.59	114	62	50.00	ug/l	-0.18
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						
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	11.09	95	68	92.42	ug/l	-0.42
Spiked Amount	50.000		Recovery	=	184.84%	

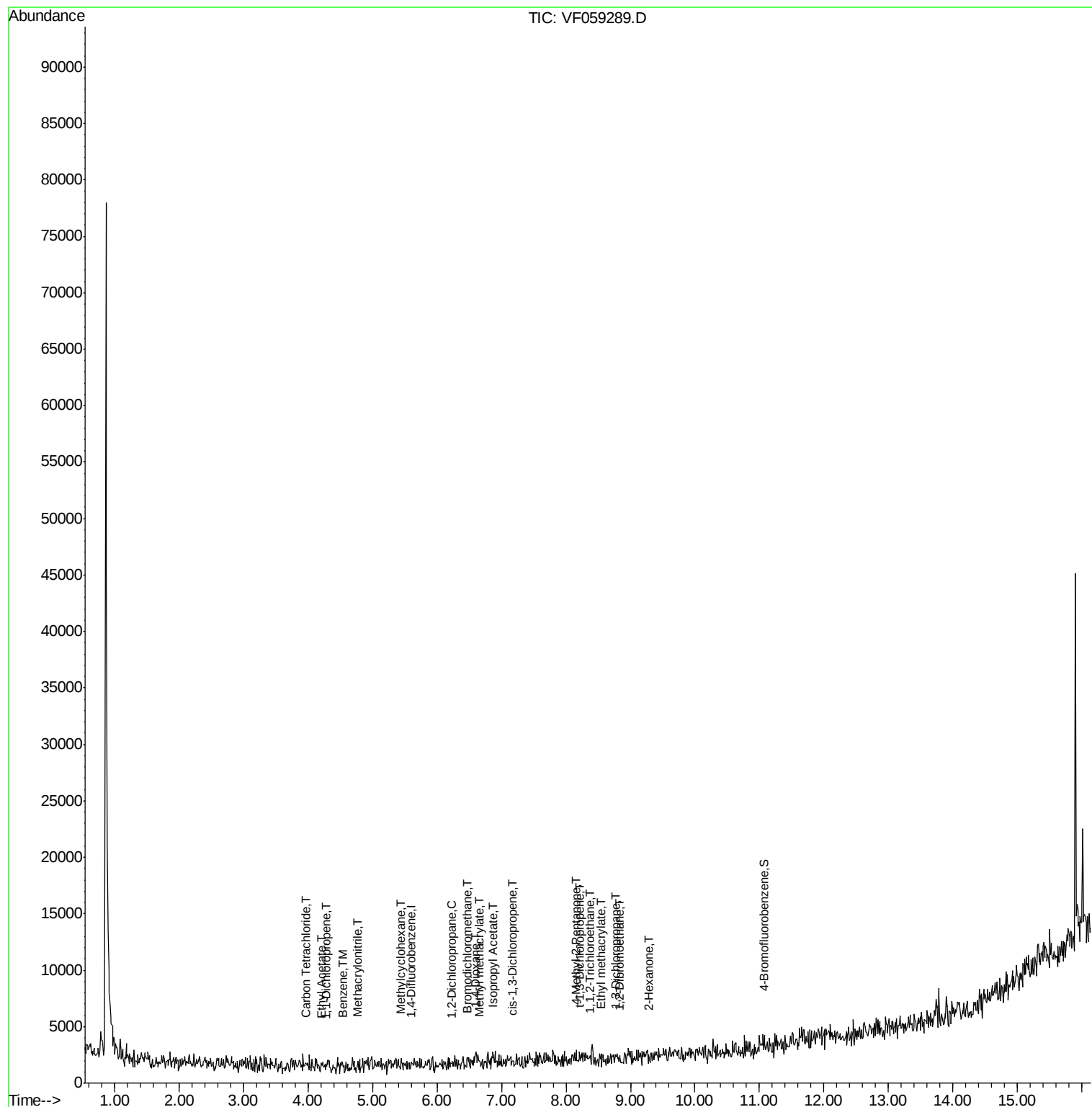
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.28	75	82	125.852	ug/l #	44
37) Ethyl Acetate	4.21	43	74	177.745	ug/l #	11
38) Carbon Tetrachloride	3.95	117	64	79.966	ug/l #	12
39) Methylcyclohexane	5.44	83	89	152.641	ug/l #	16
40) Benzene	4.52	78	67	48.462	ug/l #	50
41) Methacrylonitrile	4.77	41	213	1070.944	ug/l #	68
43) Isopropyl Acetate	6.88	43	113	221.499	ug/l #	47
45) 1,2-Dichloropropane	6.22	63	79	195.874	ug/l #	43
47) Bromodichloromethane	6.47	83	115	141.100	ug/l #	26
48) Methyl methacrylate	6.66	41	84	260.093	ug/l #	21
49) 1,4-Dioxane	6.61	88	100	53389.251	ug/l #	54
51) 4-Methyl-2-Pentanone	8.15	43	106	291.353	ug/l #	39
53) t-1,3-Dichloropropene	8.20	75	77	100.633	ug/l #	42
54) cis-1,3-Dichloropropene	7.16	75	70	86.648	ug/l #	3
55) 1,1,2-Trichloroethane	8.36	97	70	169.954	ug/l #	17
56) Ethyl methacrylate	8.54	69	70	148.642	ug/l #	1
57) 1,3-Dichloropropane	8.76	76	95	139.454	ug/l #	40
59) 2-Hexanone	9.28	43	66	228.817	ug/l #	30
61) 1,2-Dibromoethane	8.84	107	67	141.210	ug/l #	1

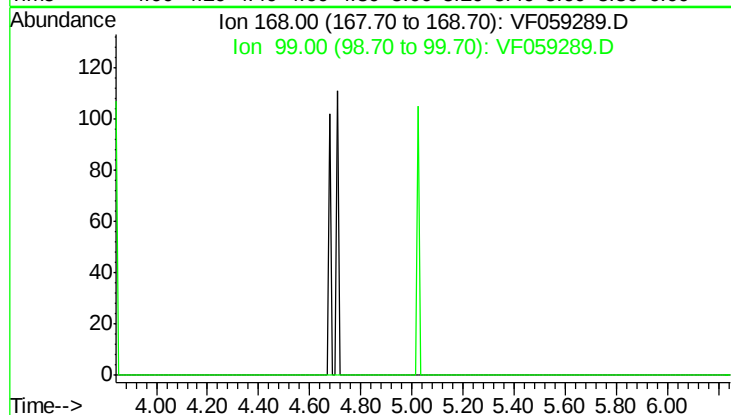
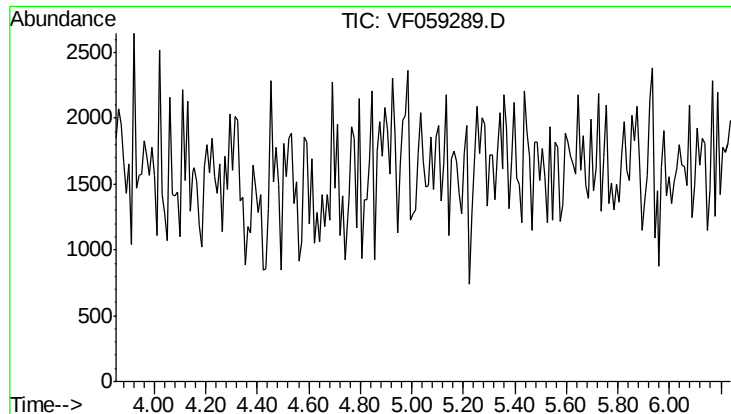
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.04 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Tgt Ion: 168

Sig Exp Ratio

168 100

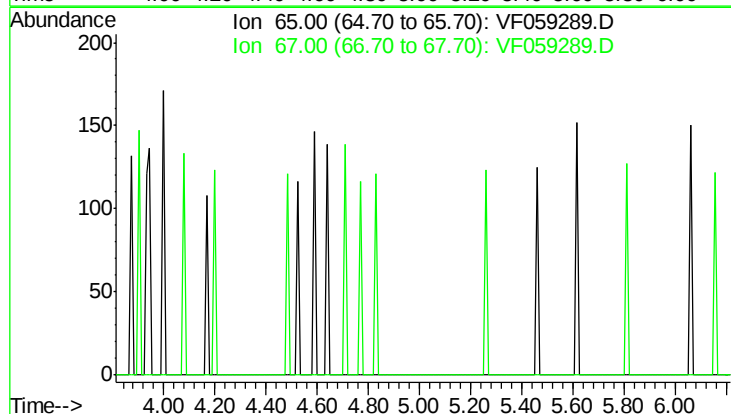
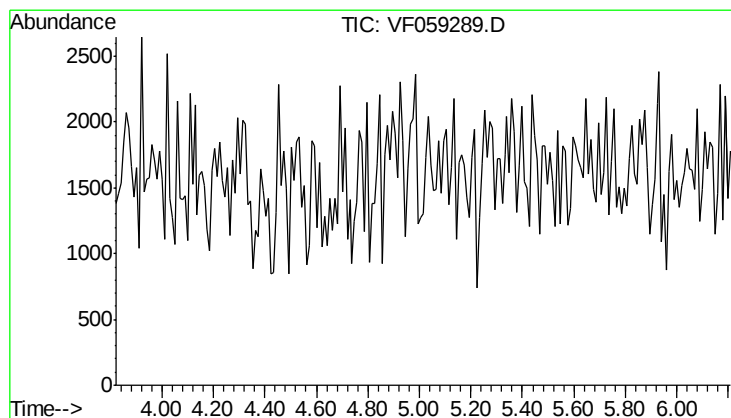
99 65.7

Instrument :

MSVOA_F

ClientSampleId :

EPE-105-4(65-67)



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.02 min

Lab File: VF059289.D

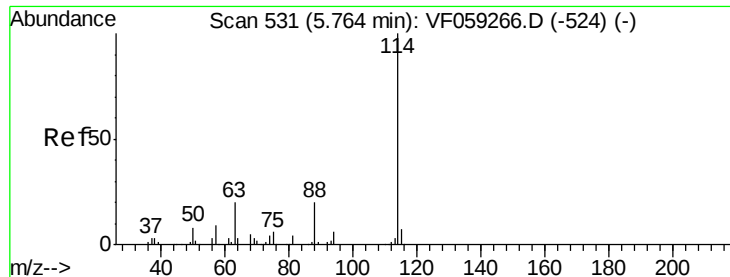
Acq: 22 Jun 2018 22:23

Tgt Ion: 65

Sig Exp Ratio

65 100

67 47.9



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 513

Delta R.T. -0.18 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

EPE-105-4(65-67)

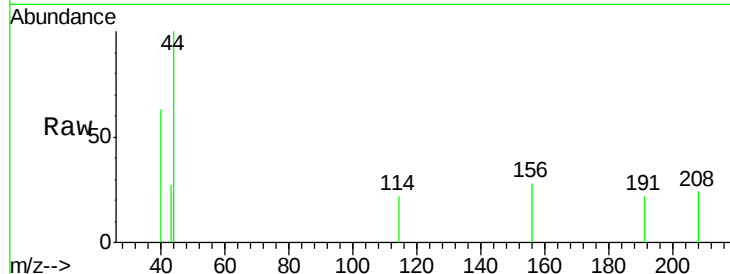
Tgt Ion:114 Resp: 62

Ion Ratio Lower Upper

114 100

63 0.0 0.0 41.0

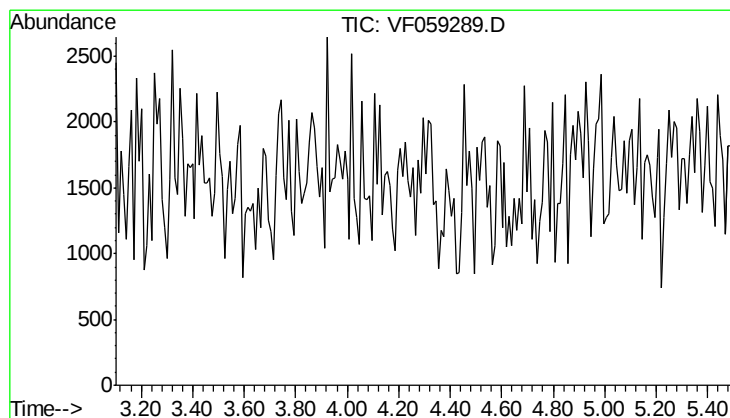
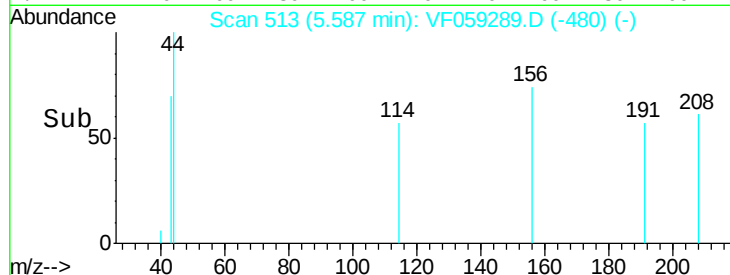
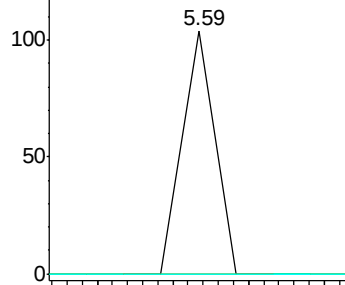
88 0.0 0.0 39.6



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: 0.000 ug/l

Expected RT: 4.30 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

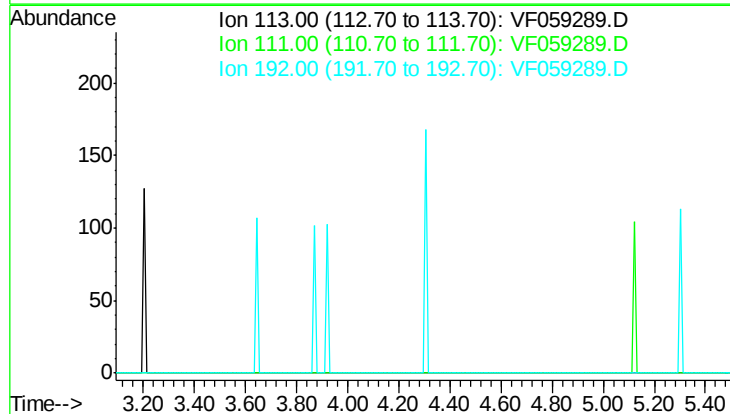
Tgt Ion: 113

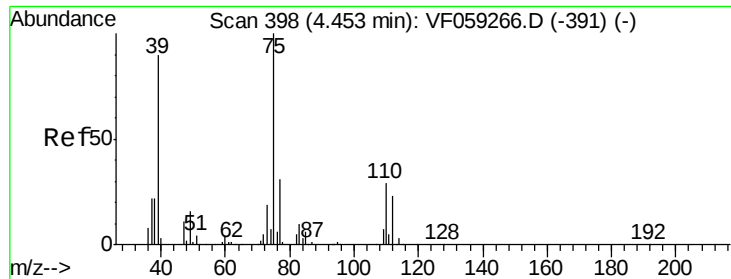
Sig Exp Ratio

113 100

111 91.4

192 17.4

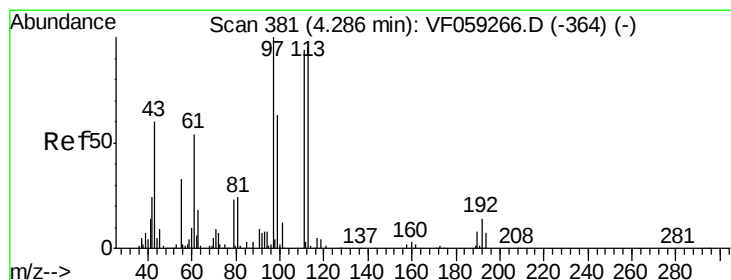
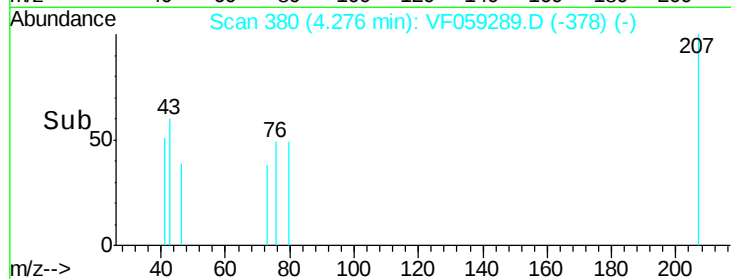
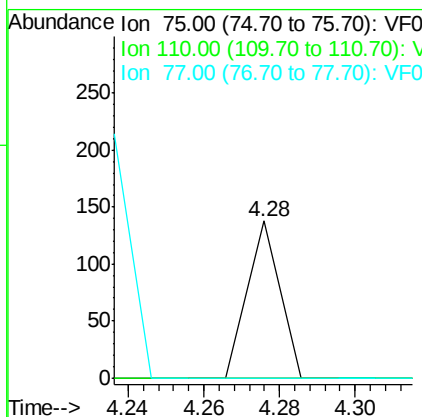
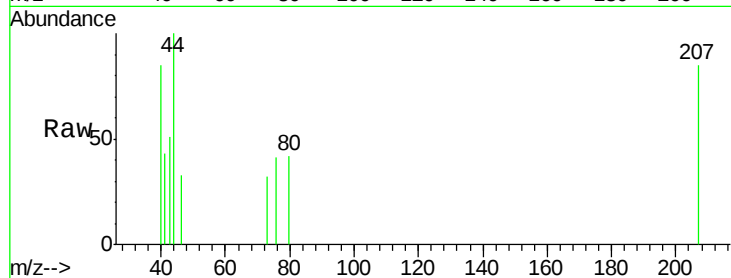




#36
1,1-Dichloropropene
Concen: 125.852 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.18 min
Lab File: VF059289.D
Acq: 22 Jun 2018 22:23

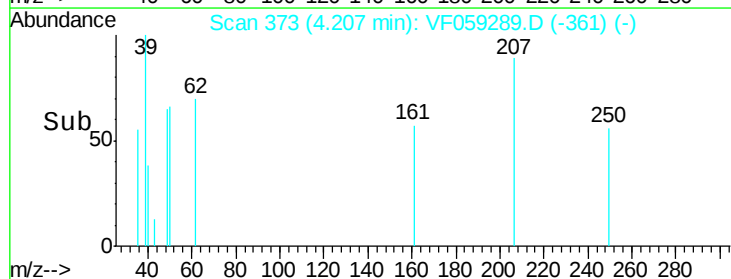
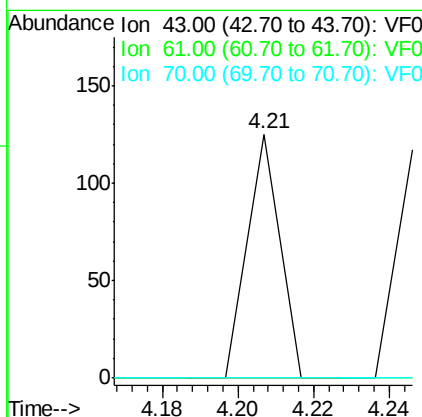
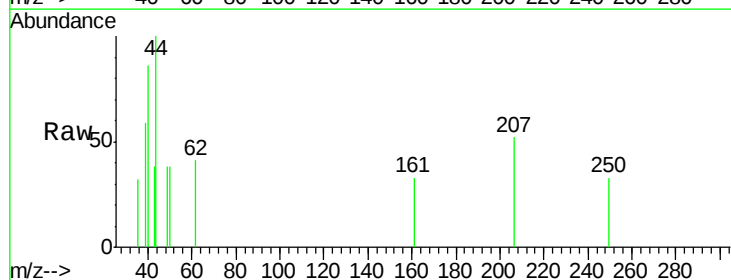
Instrument :
MSVOA_F
ClientSampleId :
EPE-105-4(65-67)

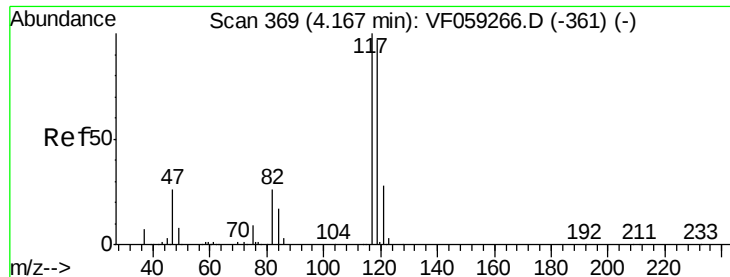
Tgt Ion: 75 Resp: 82
Ion Ratio Lower Upper
75 100
110 0.0 14.5 43.5#
77 0.0 25.0 37.6#



#37
Ethyl Acetate
Concen: 177.745 ug/l
RT: 4.21 min Scan# 373
Delta R.T. -0.08 min
Lab File: VF059289.D
Acq: 22 Jun 2018 22:23

Tgt Ion: 43 Resp: 74
Ion Ratio Lower Upper
43 100
61 0.0 71.6 107.4#
70 0.0 6.9 10.3#





#38

Carbon Tetrachloride

Concen: 79.966 ug/l

RT: 3.95 min Scan# 347

Delta R.T. -0.22 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

EPE-105-4(65-67)

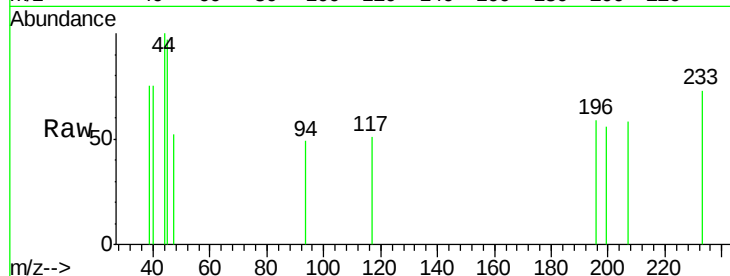
Tgt Ion: 117 Resp: 64

Ion Ratio Lower Upper

117 100

119 0.0 77.5 116.3#

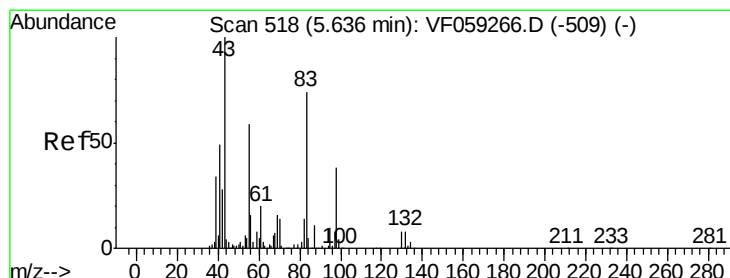
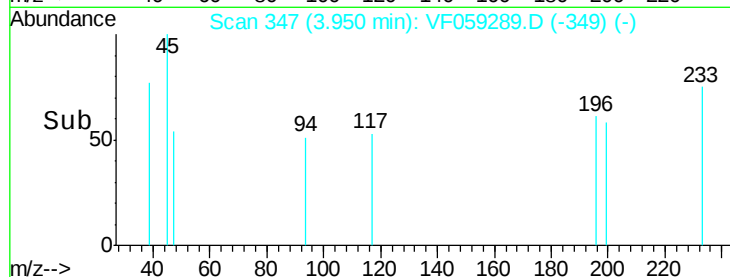
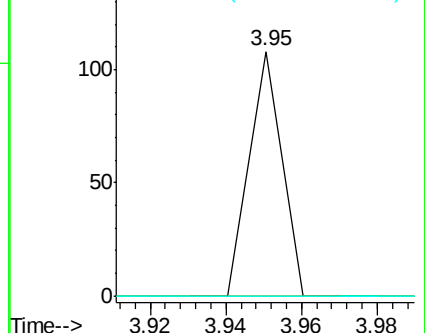
121 0.0 22.2 33.4#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

Methylcyclohexane

Concen: 152.641 ug/l

RT: 5.44 min Scan# 498

Delta R.T. -0.20 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

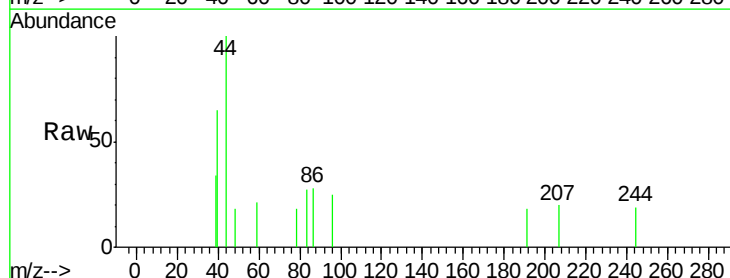
Tgt Ion: 83 Resp: 89

Ion Ratio Lower Upper

83 100

55 0.0 63.7 95.5#

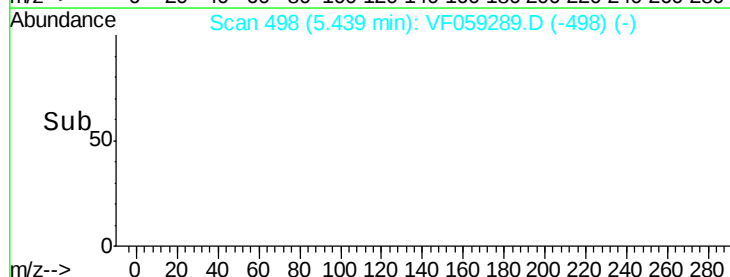
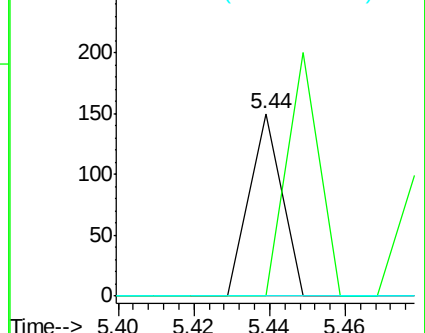
98 0.0 41.6 62.4#

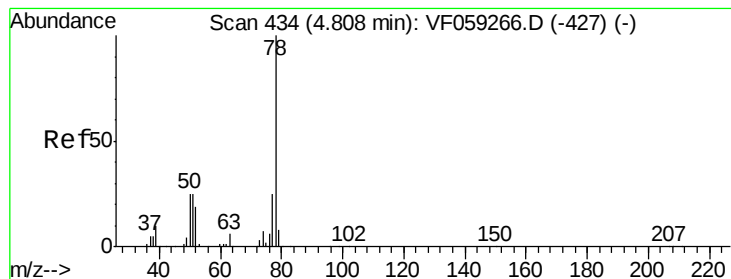


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 48.462 ug/l

RT: 4.52 min Scan# 405

Delta R.T. -0.29 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

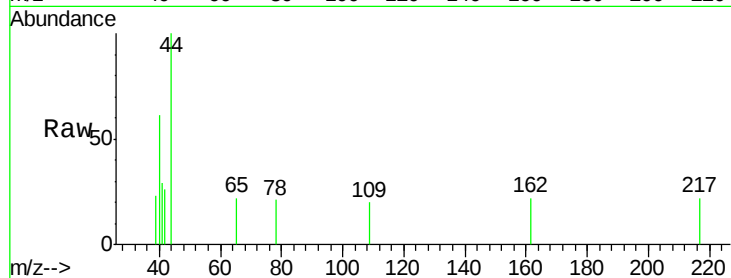
EPE-105-4(65-67)

Tgt Ion: 78 Resp: 67

Ion Ratio Lower Upper

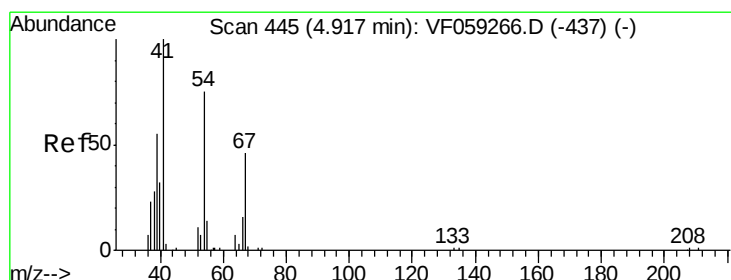
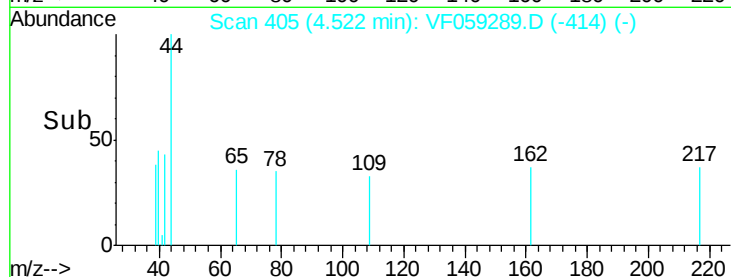
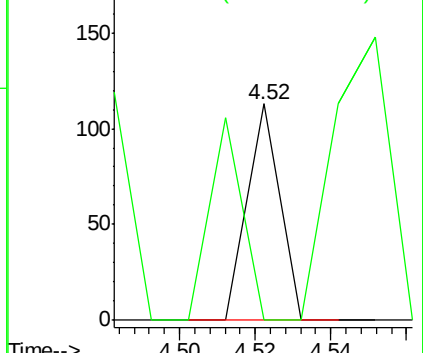
78 100

77 0.0 20.4 30.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#41

Methacrylonitrile

Concen: 1070.944 ug/l

RT: 4.77 min Scan# 430

Delta R.T. -0.15 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Tgt Ion: 41 Resp: 213

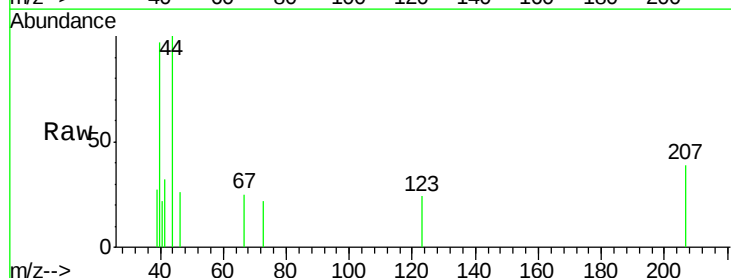
Ion Ratio Lower Upper

41 100

39 49.8 57.0 85.6#

67 46.2 36.8 55.2

52 0.0 37.7 56.5#

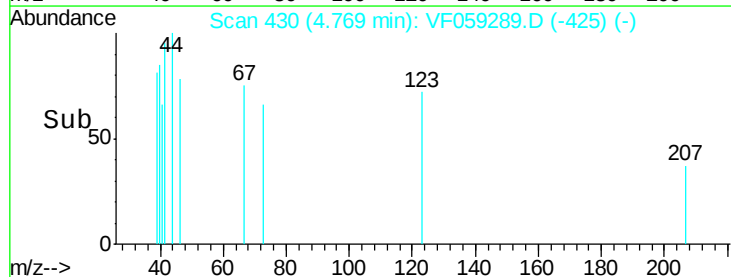
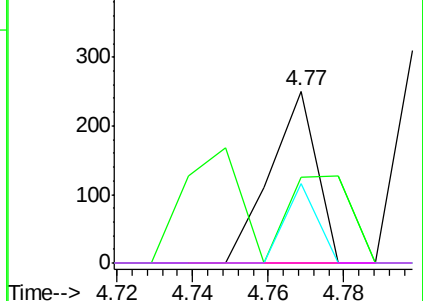


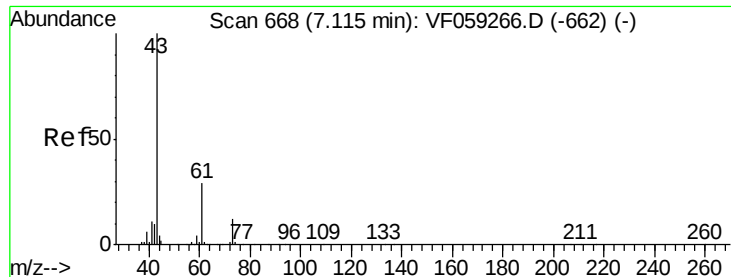
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#43

Isopropyl Acetate

Concen: 221.499 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.24 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

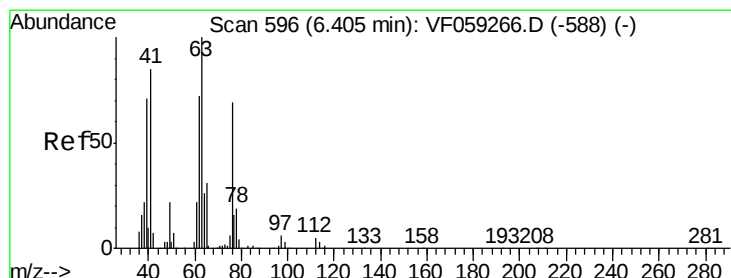
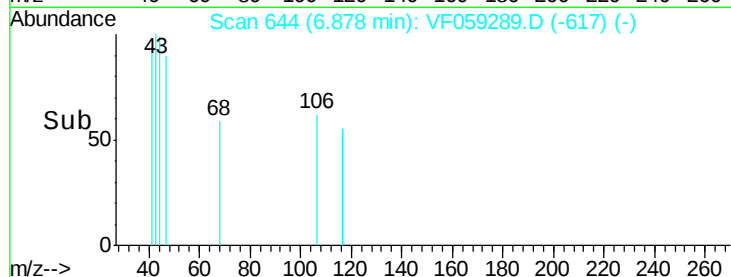
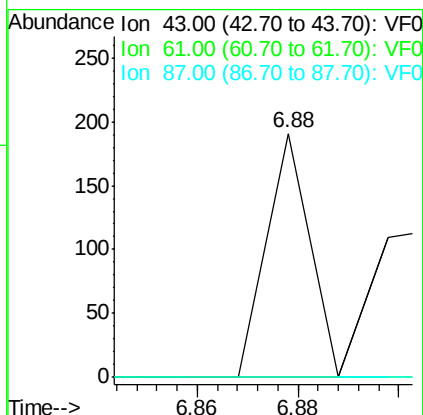
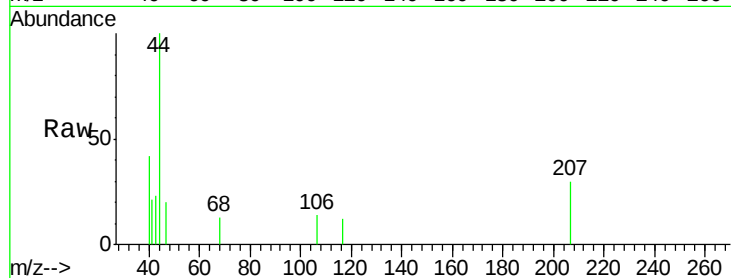
Instrument :

MSVOA_F

ClientSampleId :

EPE-105-4(65-67)

Tgt Ion:	43	Resp:	113
Ion	Ratio	Lower	Upper
43	100		
61	0.0	22.8	34.2#
87	0.0	0.3	0.5#



#45

1,2-Dichloropropane

Concen: 195.874 ug/l

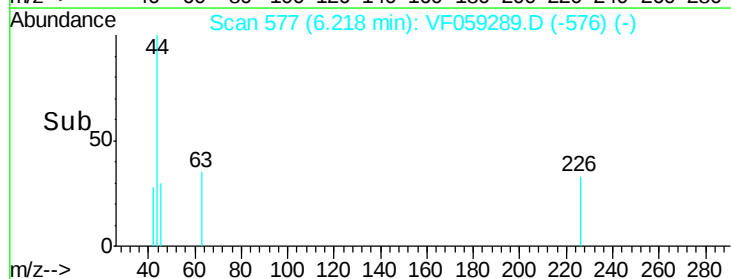
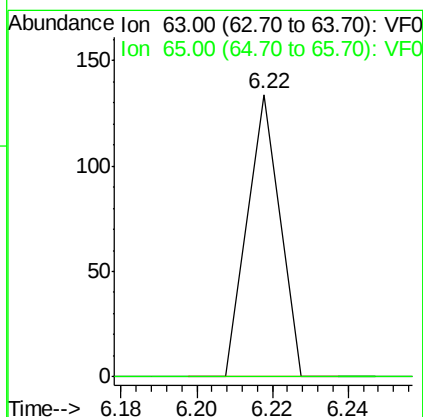
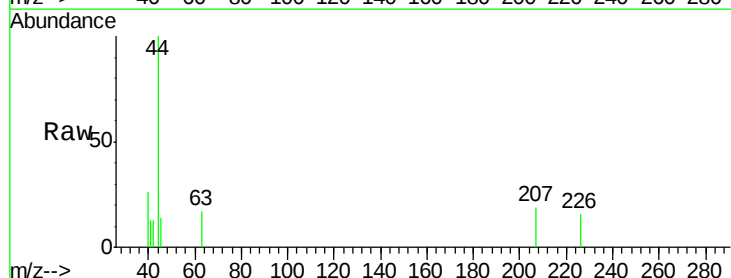
RT: 6.22 min Scan# 577

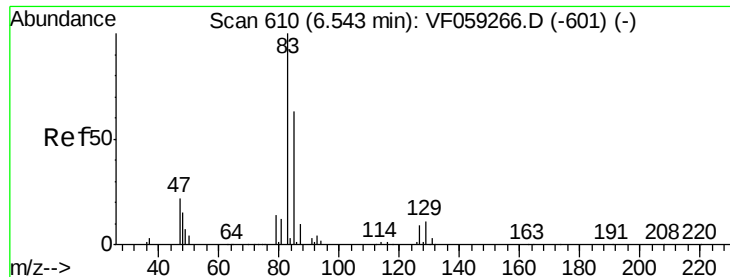
Delta R.T. -0.19 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Tgt Ion:	63	Resp:	79
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.3	37.9#





#47

Bromodichloromethane

Concen: 141.100 ug/l

RT: 6.47 min Scan# 603

Delta R.T. -0.07 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Instrument :

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ClientSampleId :

EPE-105-4(65-67)

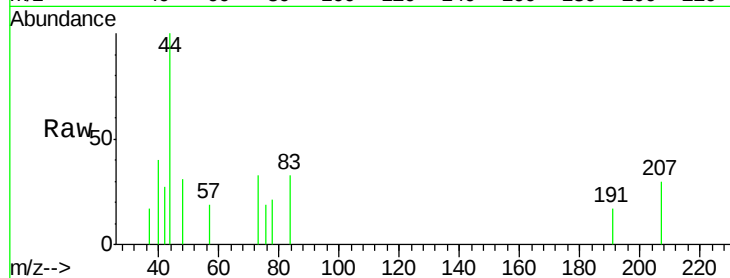
Tgt Ion: 83 Resp: 115

Ion Ratio Lower Upper

83 100

85 0.0 50.3 75.5#

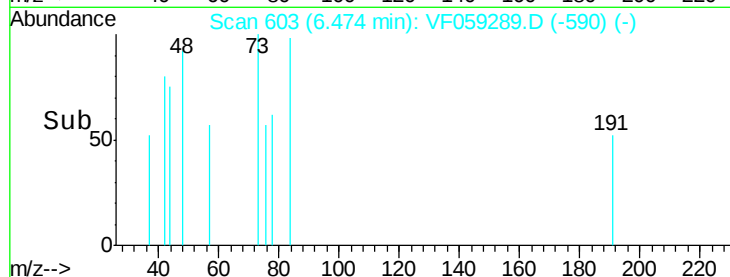
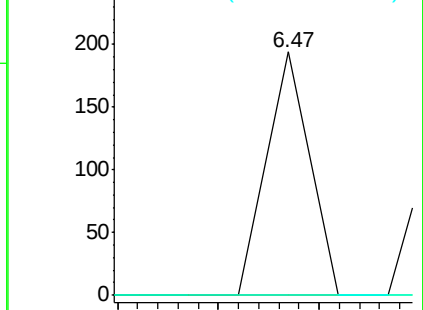
127 0.0 7.0 10.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 260.093 ug/l

RT: 6.66 min Scan# 622

Delta R.T. -0.21 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

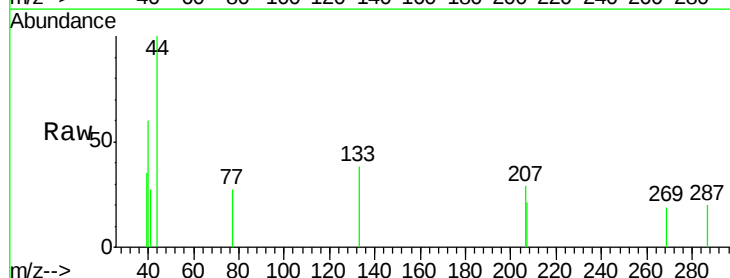
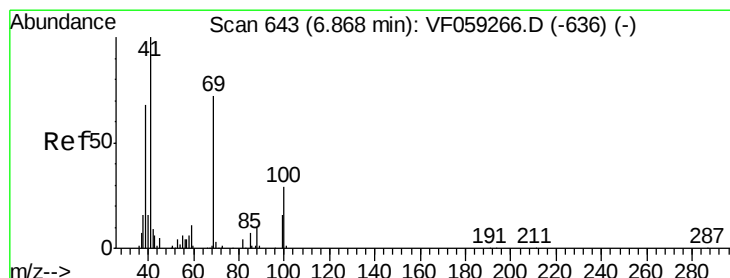
Tgt Ion: 41 Resp: 84

Ion Ratio Lower Upper

41 100

69 0.0 57.4 86.2#

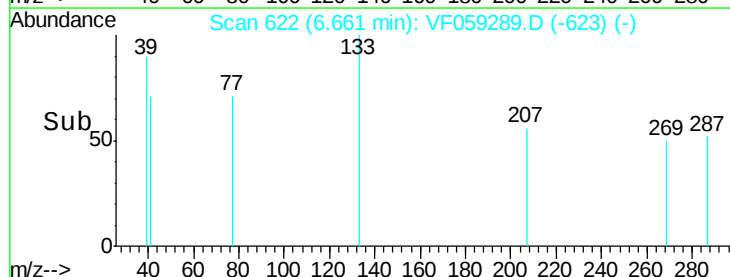
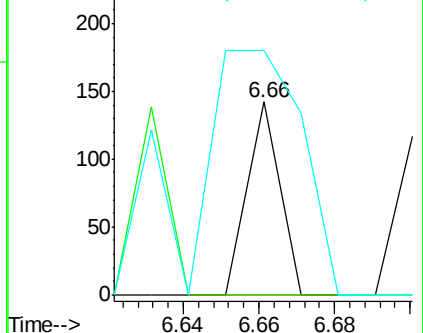
39 126.8 54.8 82.2#

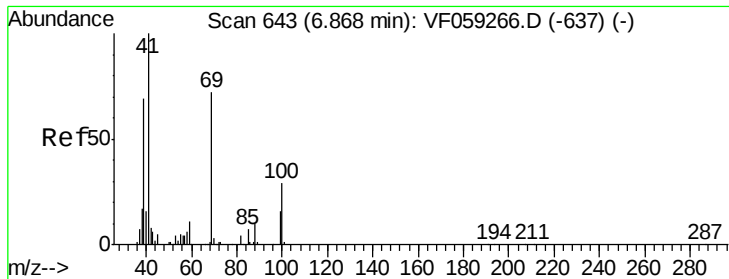


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 53389.251 ug/l

RT: 6.61 min Scan# 617

Delta R.T. -0.26 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

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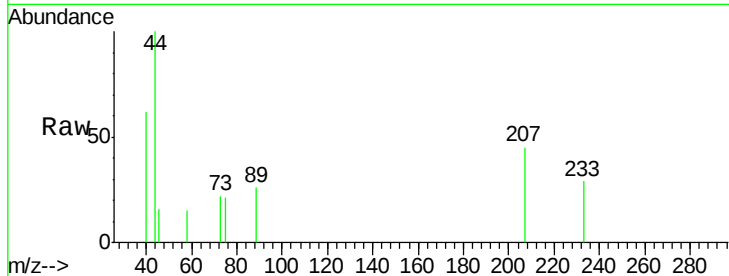
Tgt Ion: 88 Resp: 100

Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

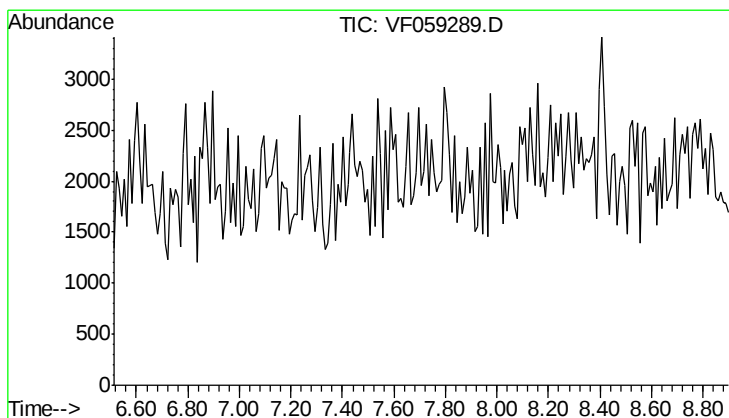
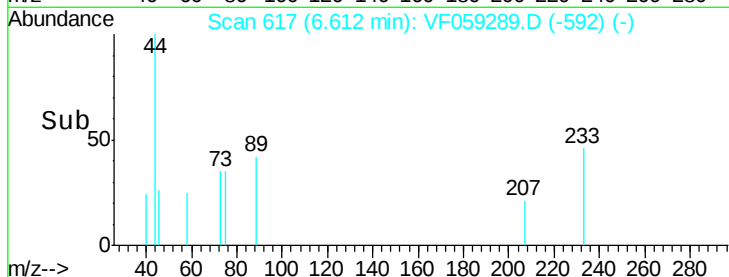
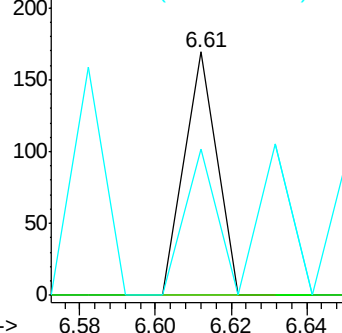
58 60.4 50.1 75.1



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: 0.000 ug/l

Expected RT: 7.71 min

Lab File: VF059289.D

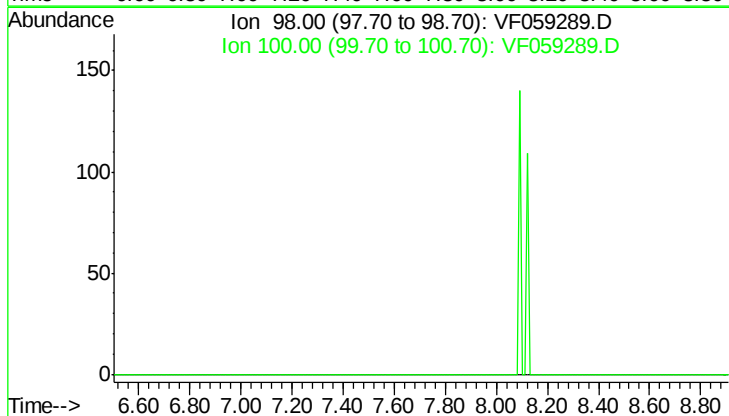
Acq: 22 Jun 2018 22:23

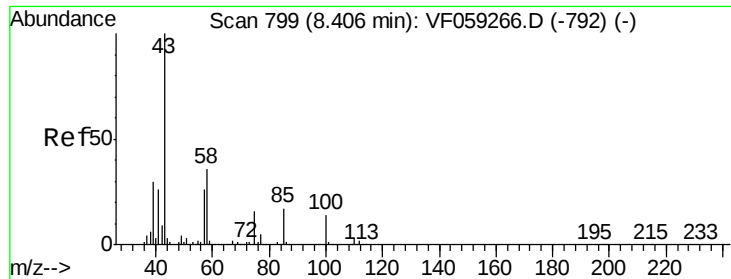
Tgt Ion: 98

Sig Exp Ratio

98 100

100 66.0





#51

4-Methyl-2-Pentanone

Concen: 291.353 ug/l

RT: 8.15 min Scan# 773

Delta R.T. -0.26 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

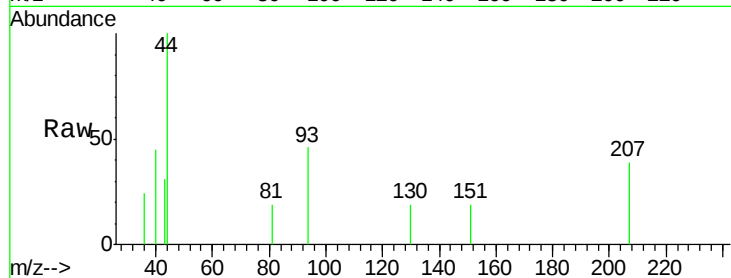
EPE-105-4(65-67)

Tgt Ion: 43 Resp: 106

Ion Ratio Lower Upper

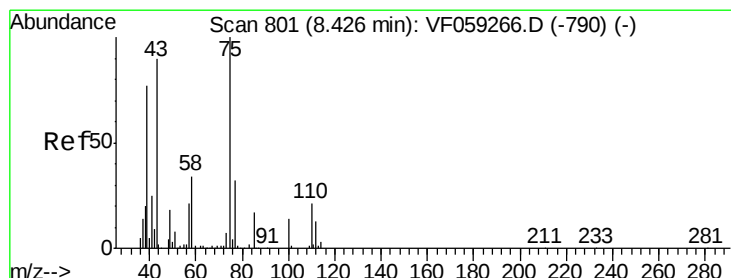
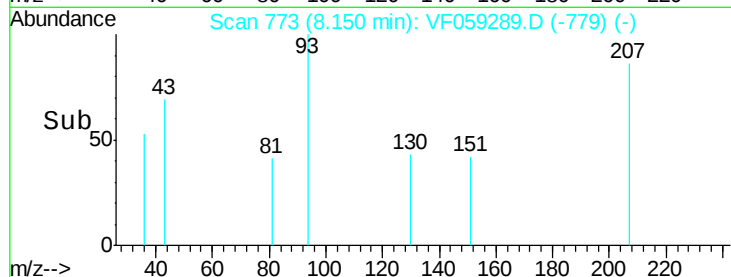
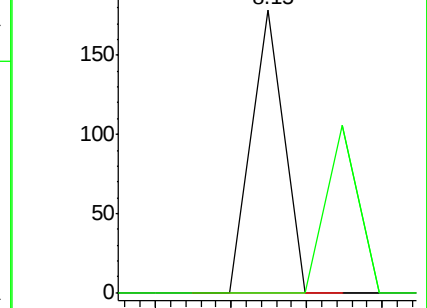
43 100

58 0.0 29.0 43.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#53

t-1,3-Dichloropropene

Concen: 100.633 ug/l

RT: 8.20 min Scan# 778

Delta R.T. -0.23 min

Lab File: VF059289.D

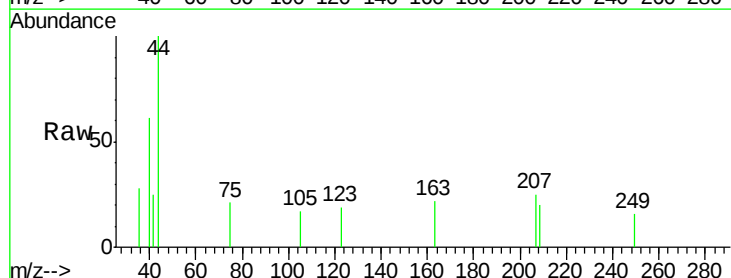
Acq: 22 Jun 2018 22:23

Tgt Ion: 75 Resp: 77

Ion Ratio Lower Upper

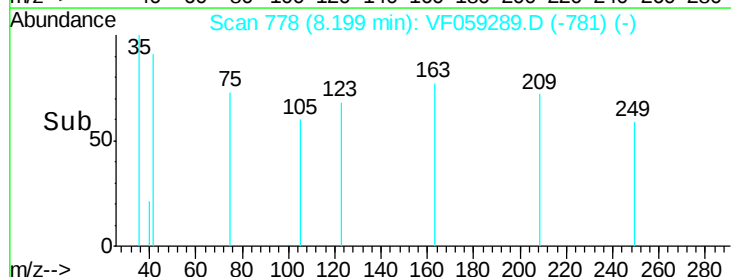
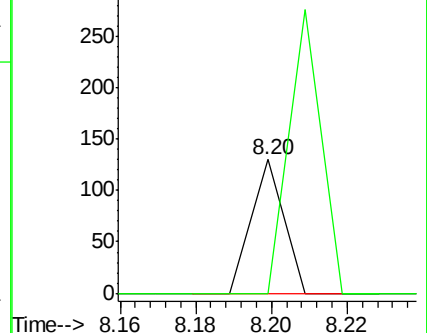
75 100

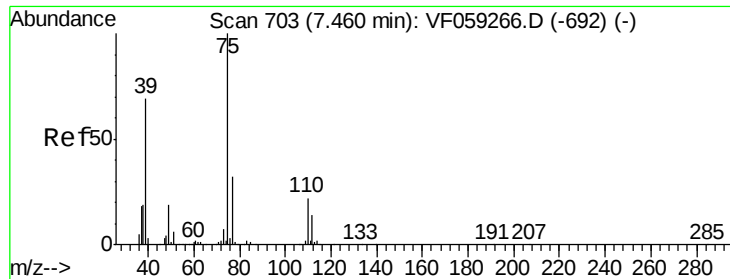
77 0.0 26.1 39.1#



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: 86.648 ug/l

RT: 7.16 min Scan# 673

Delta R.T. -0.30 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

EPE-105-4(65-67)

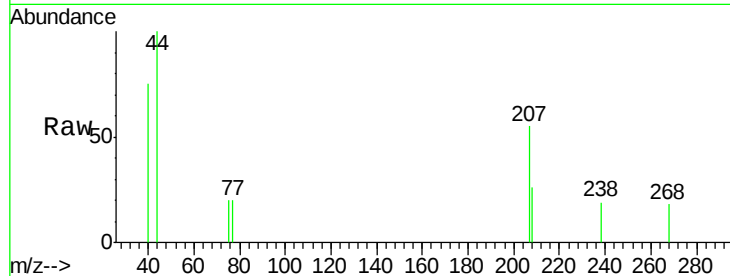
Tgt Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

77 100.8 26.0 39.0#

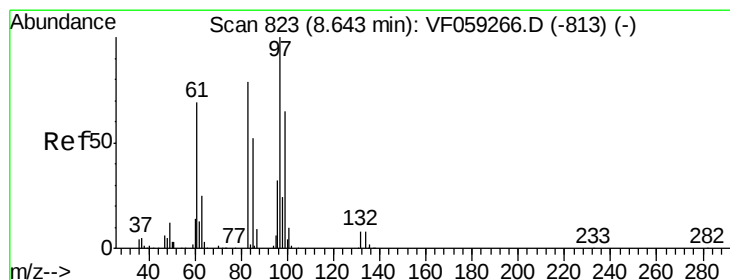
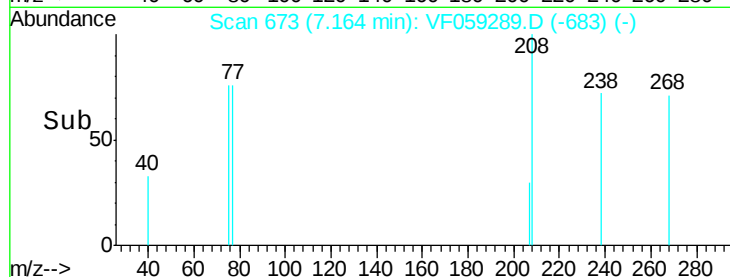
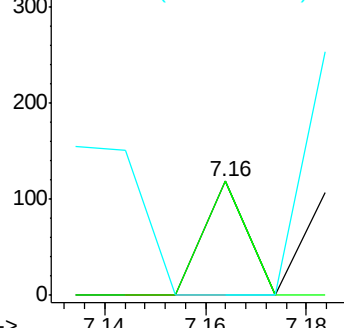
39 0.0 55.5 83.3#



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



#55

1,1,2-Trichloroethane

Concen: 169.954 ug/l

RT: 8.36 min Scan# 794

Delta R.T. -0.29 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Tgt Ion: 97 Resp: 70

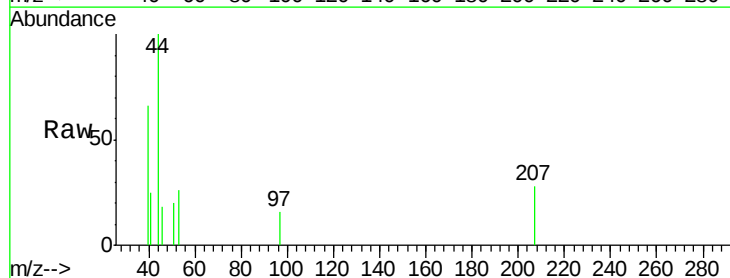
Ion Ratio Lower Upper

97 100

83 0.0 63.2 94.8#

85 0.0 41.8 62.6#

99 0.0 51.7 77.5#

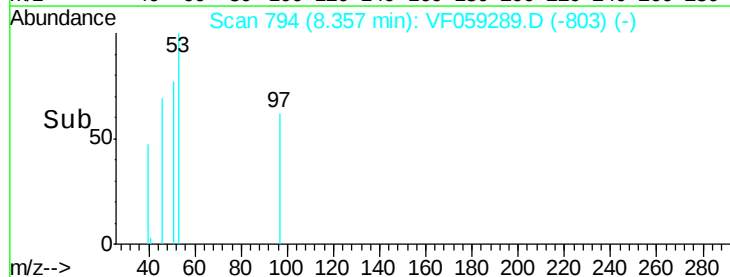
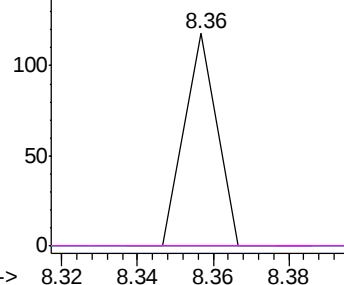


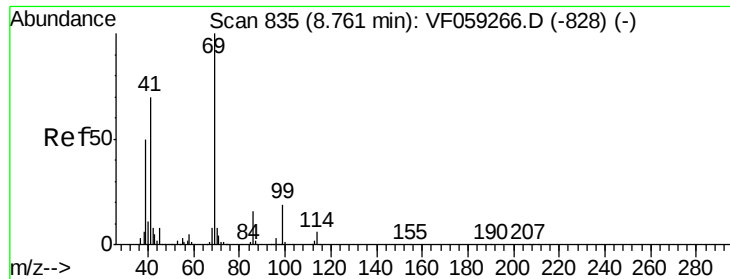
Abundance Ion 97.00 (96.70 to 97.70): VF0

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





#56

Ethyl methacrylate

Concen: 148.642 ug/l

RT: 8.54 min Scan# 813

Delta R.T. -0.22 min

Lab File: VF059289.D

Acq: 22 Jun 2018 22:23

Instrument :

MSVOA_F

ClientSampleId :

EPE-105-4(65-67)

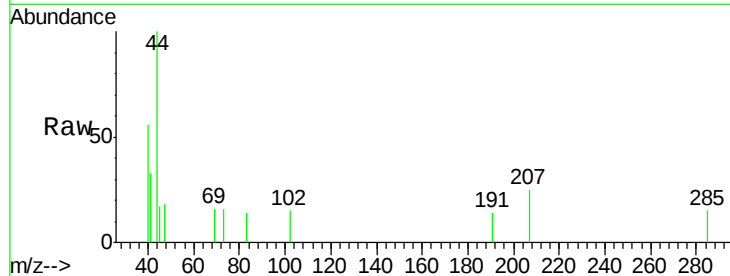
Tgt Ion: 69 Resp: 70

Ion Ratio Lower Upper

69 100

41 212.7 56.6 85.0#

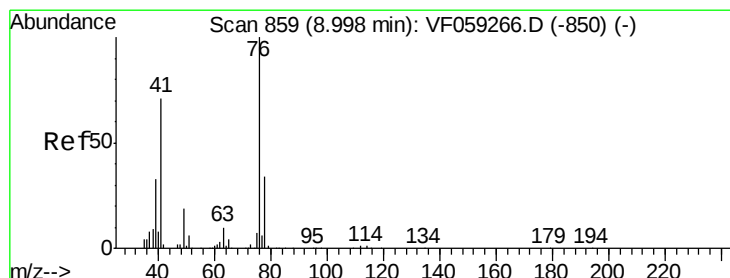
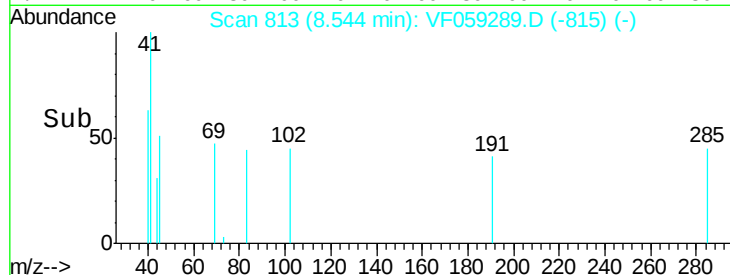
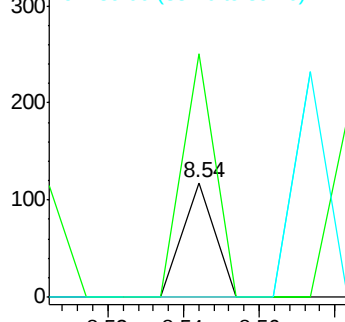
39 0.0 40.5 60.7#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 139.454 ug/l

RT: 8.76 min Scan# 835

Delta R.T. -0.24 min

Lab File: VF059289.D

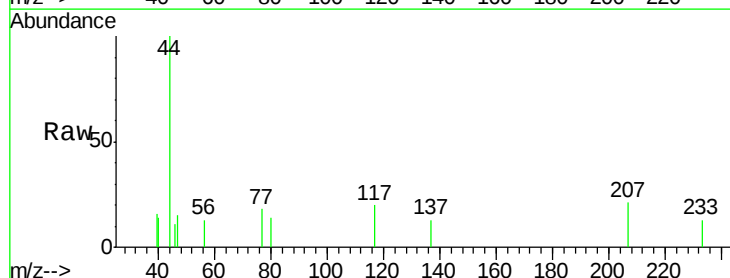
Acq: 22 Jun 2018 22:23

Tgt Ion: 76 Resp: 95

Ion Ratio Lower Upper

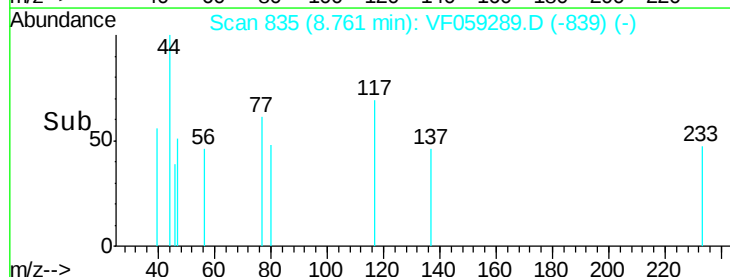
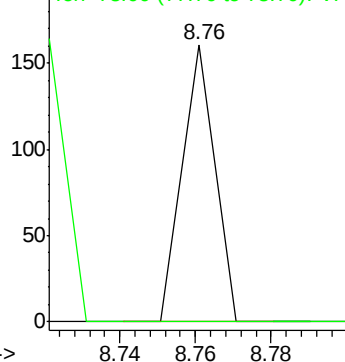
76 100

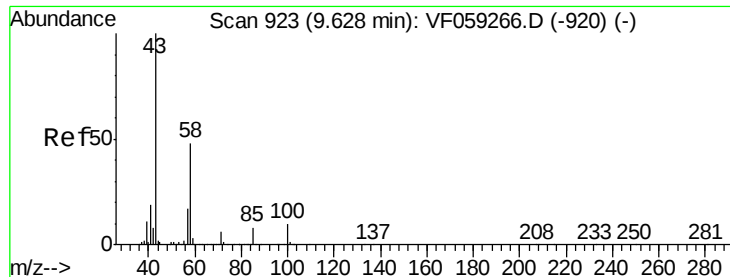
78 0.0 27.5 41.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

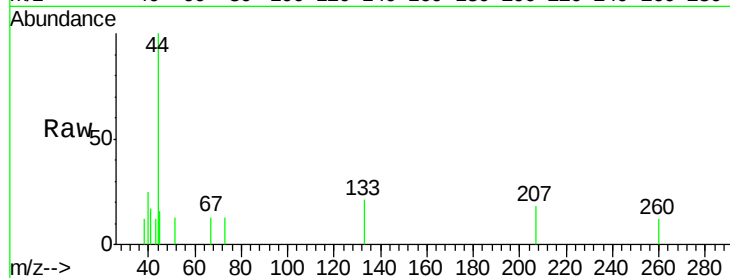




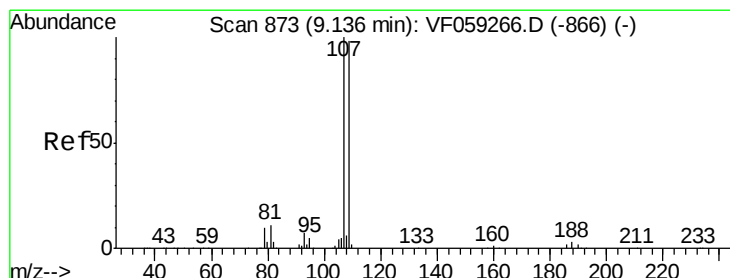
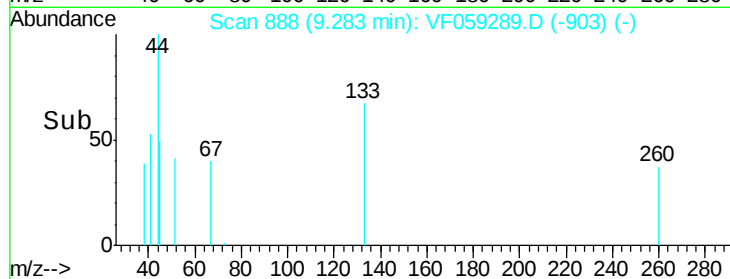
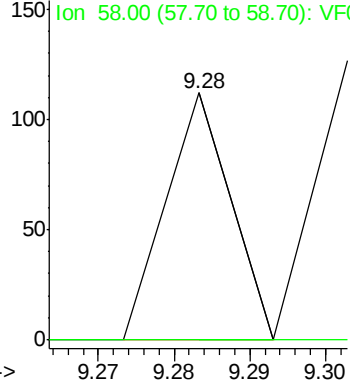
#59
2-Hexanone
Concen: 228.817 ug/l
RT: 9.28 min Scan# 888
Delta R.T. -0.35 min
Lab File: VF059289.D
Acq: 22 Jun 2018 22:23

Instrument :
MSVOA_F
ClientSampleId :
EPE-105-4(65-67)

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#

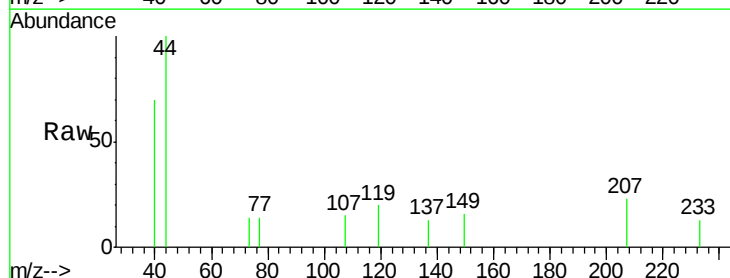


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

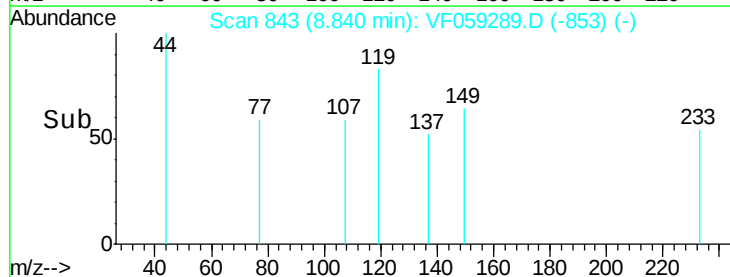
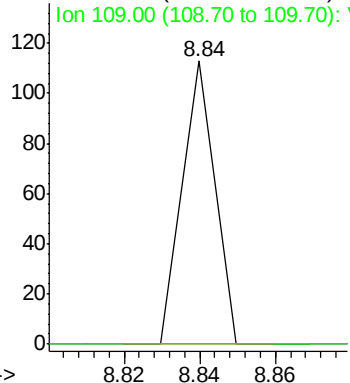


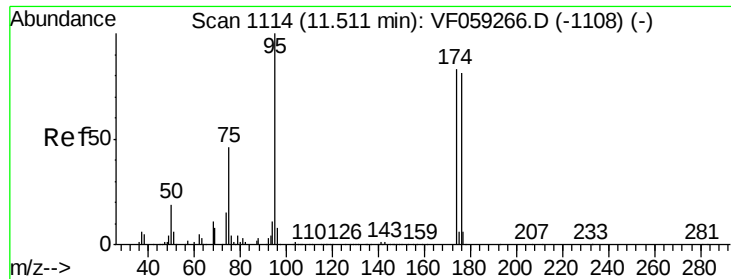
#61
1,2-Dibromoethane
Concen: 141.210 ug/l
RT: 8.84 min Scan# 843
Delta R.T. -0.30 min
Lab File: VF059289.D
Acq: 22 Jun 2018 22:23

Tgt Ion:107 Resp: 67
Ion Ratio Lower Upper
107 100
109 0.0 78.0 117.0#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V

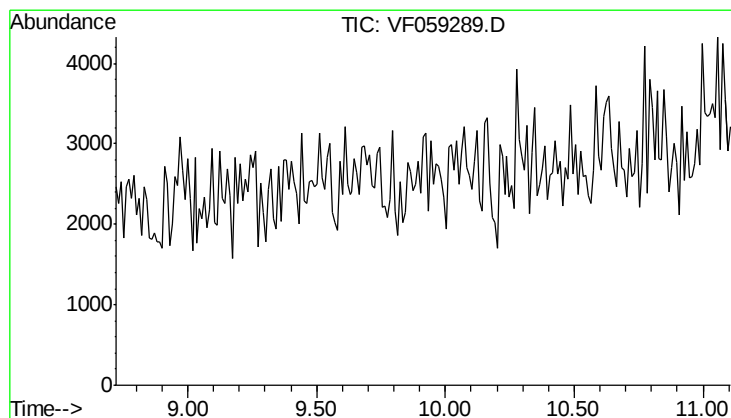
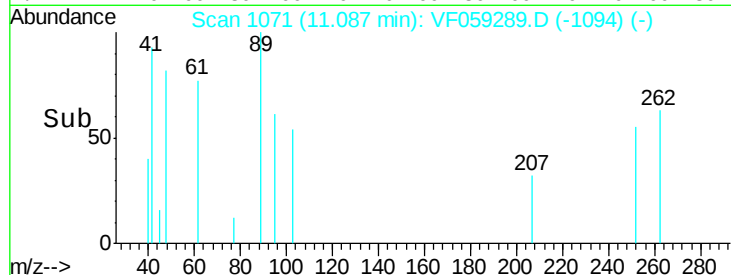
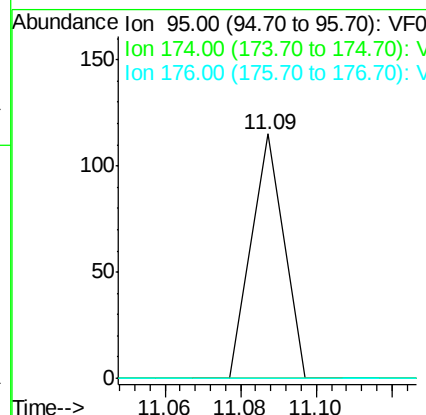
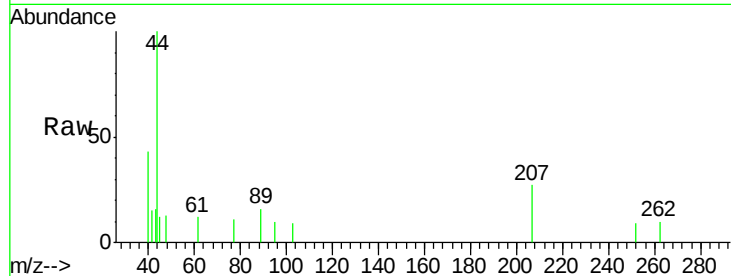




#62
4-Bromofluorobenzene
Concen: 92.421 ug/l
RT: 11.09 min Scan# 1071
Delta R.T. -0.42 min
Lab File: VF059289.D
Acq: 22 Jun 2018 22:23

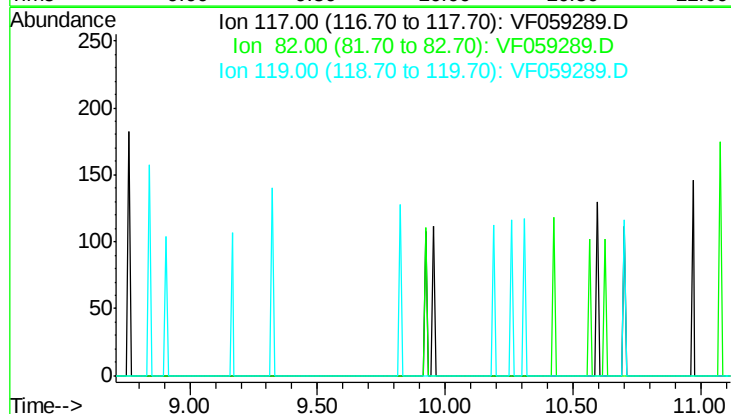
Instrument :
MSVOA_F
ClientSampleId :
EPE-105-4(65-67)

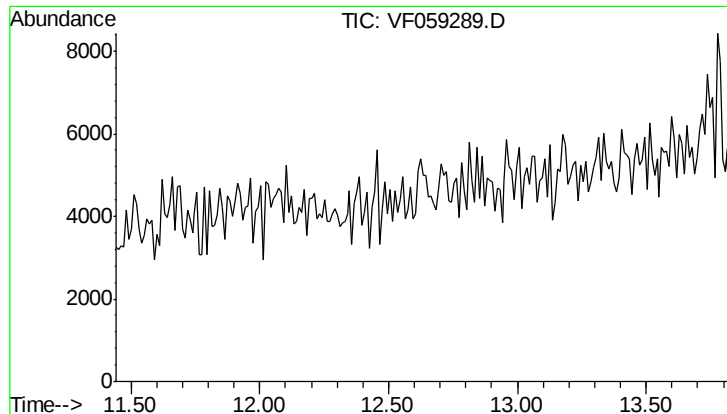
Tgt Ion: 95 Resp: 68
Ion Ratio Lower Upper
95 100
174 0.0 0.0 166.2
176 0.0 0.0 162.8



#63
Chlorobenzene-d5
Concen: 0.000 ug/l
Expected RT: 9.91 min
Lab File: VF059289.D
Acq: 22 Jun 2018 22:23

Tgt Ion: 117
Sig Exp Ratio
117 100
82 58.9
119 33.6





#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 12.63 min
Lab File: VF059289.D
Acq: 22 Jun 2018 22:23

Instrument :
MSVOA_F
ClientSampleId :
EPE-105-4(65-67)

Tgt Ion: 152
Sig Exp Ratio
152 100
115 55.5
150 156.9

