

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059873.D
 Acq On : 4 Aug 2018 9:19
 Operator : VA/AP
 Sample : J4318-07
 Misc : 4.50µ/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 06 02:17:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	165275	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	255359	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	190591	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	58242	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	147672	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	4.30	113	119641	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
50) Toluene-d8	7.72	98	204416	37.81	ug/l	0.00
Spiked Amount			Recovery	=	75.62%	
62) 4-Bromofluorobenzene	11.51	95	74749	24.61	ug/l	0.00
Spiked Amount			Recovery	=	49.22%	

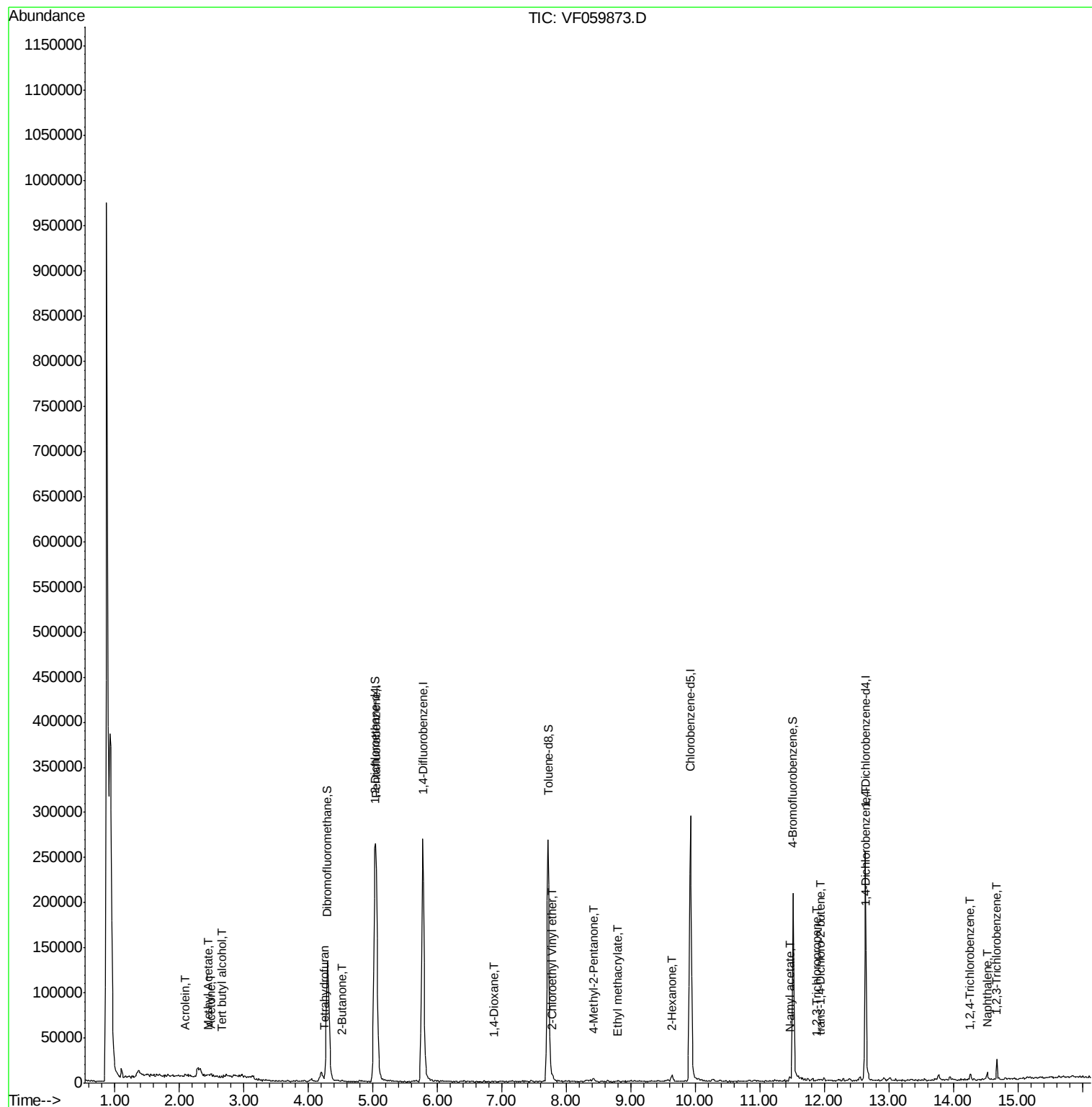
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.66	59	339	2.821	ug/l #	74
13) Acrolein	2.10	56	74	1.027	ug/l #	9
16) Acetone	2.49	43	571	1.038	ug/l	98
18) Methyl Acetate	2.45	43	1948	2.099	ug/l	92
20) Methylene Chloride	2.28	84	3829	Below Cal	#	74
25) 2-Butanone	4.51	43	1102	1.842	ug/l #	60
29) Tetrahydrofuran	4.25	42	484	2.198	ug/l #	78
40) Benzene	4.84	78	1398	Below Cal	#	49
49) 1,4-Dioxane	6.88	88	83	90.887	ug/l #	47
51) 4-Methyl-2-Pentanone	8.43	43	3017	2.260	ug/l	89
56) Ethyl methacrylate	8.78	69	267	3.526	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.78	63	260	1.463	ug/l	100
59) 2-Hexanone	9.64	43	6016	6.378	ug/l	80
74) N-amyl acetate	11.47	43	2940	6.040	ug/l #	95
76) 1,2,3-Trichloropropane	11.89	75	716	1.224	ug/l #	47
81) trans-1,4-Dichloro-2-buten	11.94	75	378	1.799	ug/l #	13
88) 1,4-Dichlorobenzene	12.65	146	2155	1.174	ug/l	72
93) 1,2,4-Trichlorobenzene	14.27	180	1757	1.286	ug/l	77
95) Naphthalene	14.53	128	5099	2.156	ug/l #	90
96) 1,2,3-Trichlorobenzene	14.67	180	1997	1.481	ug/l	96

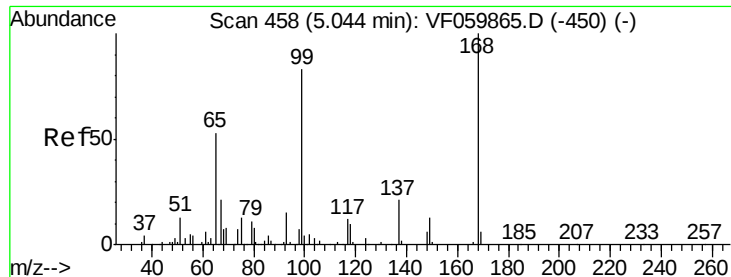
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 04 07:08:36 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

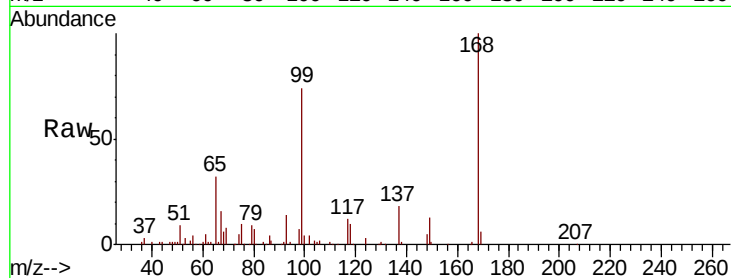
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 165275

Ion Ratio Lower Upper

168 100

99 73.6 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

60000

50000

40000

30000

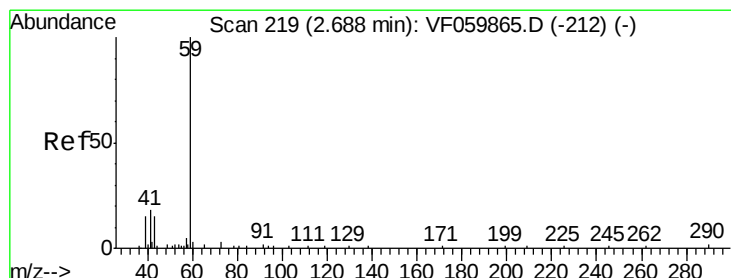
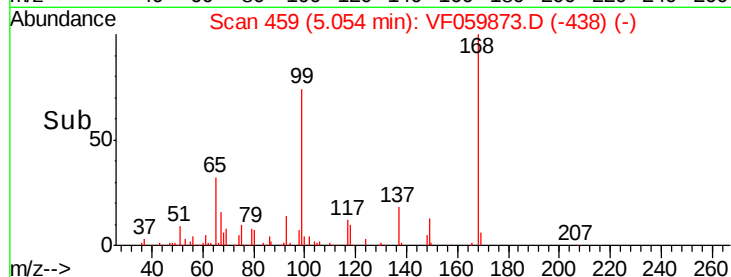
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 2.821 ug/l

RT: 2.66 min Scan# 216

Delta R.T. -0.03 min

Lab File: VF059873.D

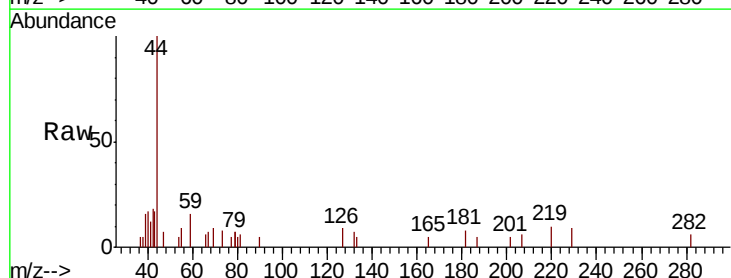
Acq: 4 Aug 2018 9:19

Tgt Ion: 59 Resp: 339

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.66

400

300

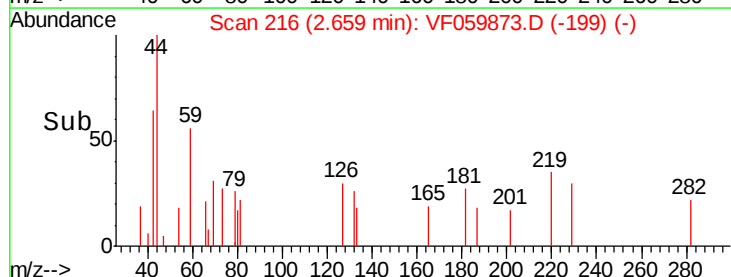
200

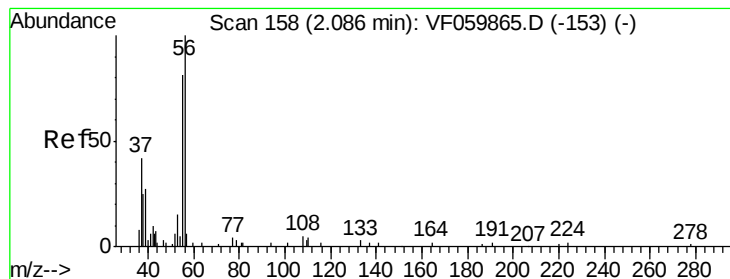
100

0

Time-->

2.64 2.66





#13

Acrolein

Concen: 1.027 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

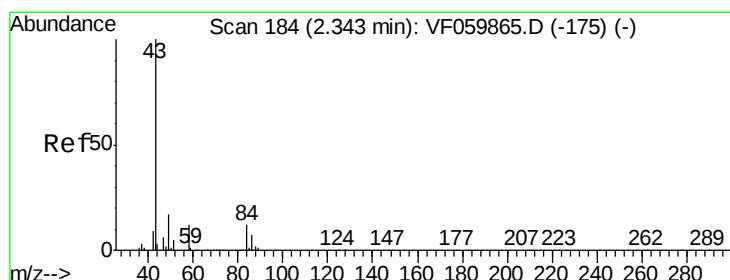
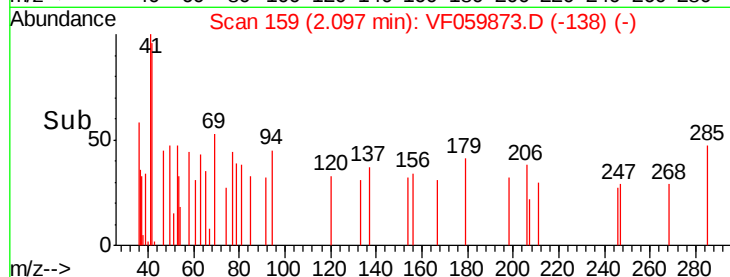
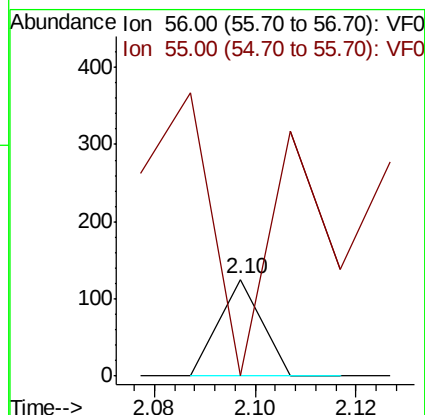
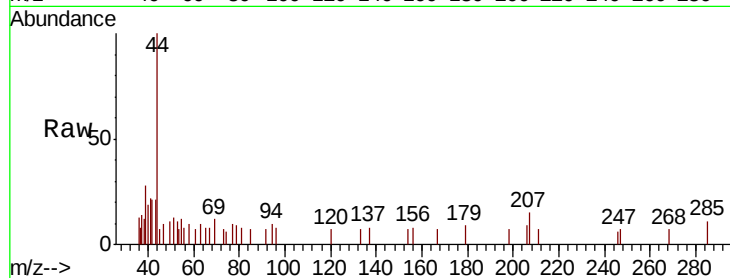
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 74

Ion Ratio Lower Upper

56 100

55 0.0 64.6 96.8#



#16

Acetone

Concen: 1.038 ug/l

RT: 2.49 min Scan# 199

Delta R.T. 0.15 min

Lab File: VF059873.D

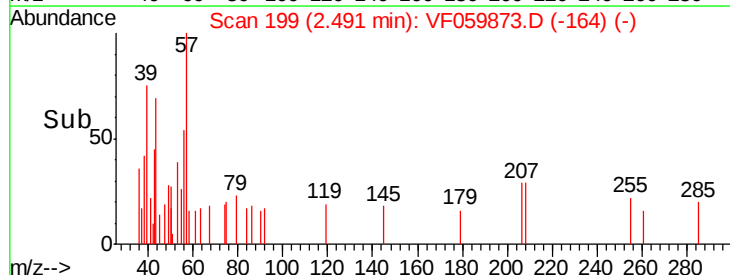
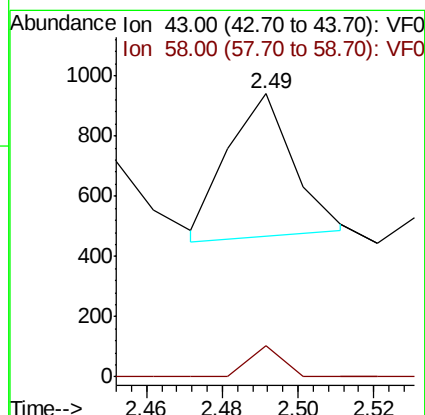
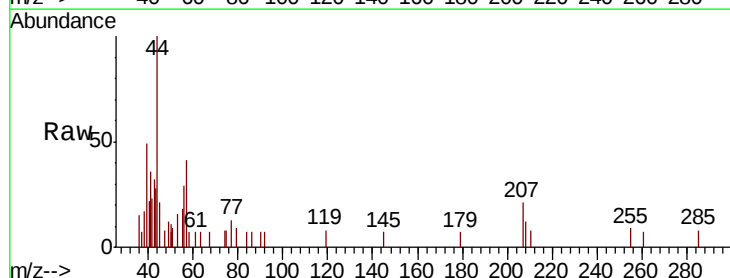
Acq: 4 Aug 2018 9:19

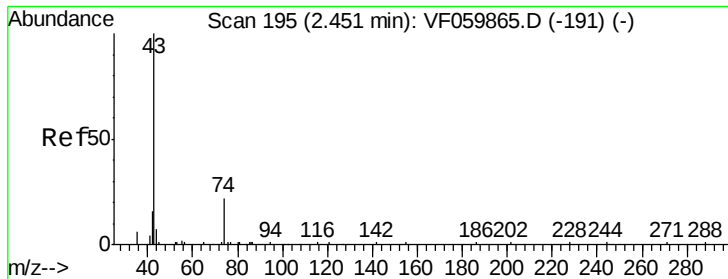
Tgt Ion: 43 Resp: 571

Ion Ratio Lower Upper

43 100

58 11.1 9.4 14.0

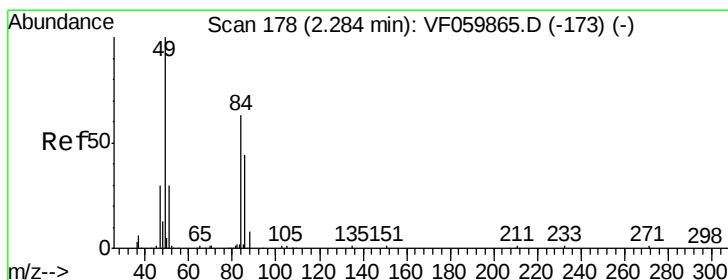
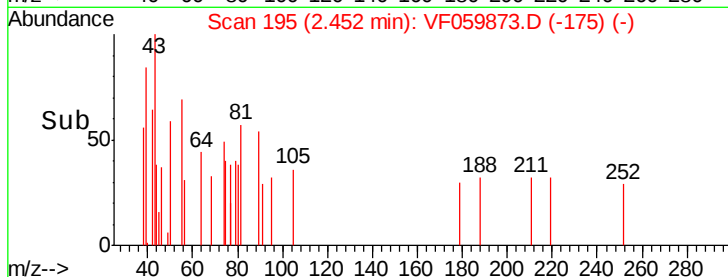
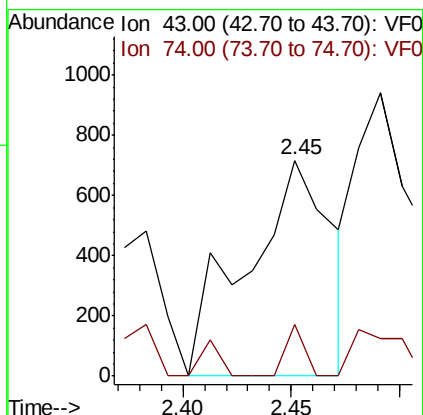
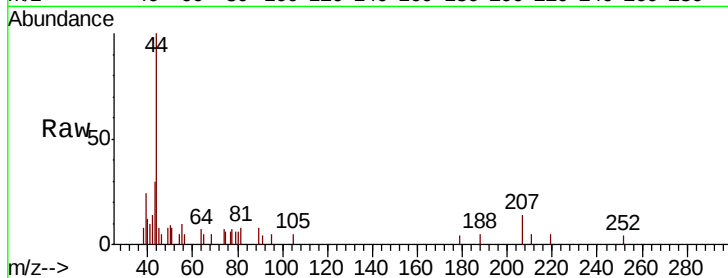




#18
Methyl Acetate
Concen: 2.099 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF059873.D
Acq: 4 Aug 2018 9:19

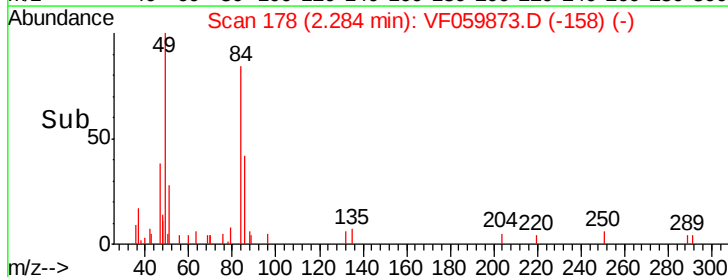
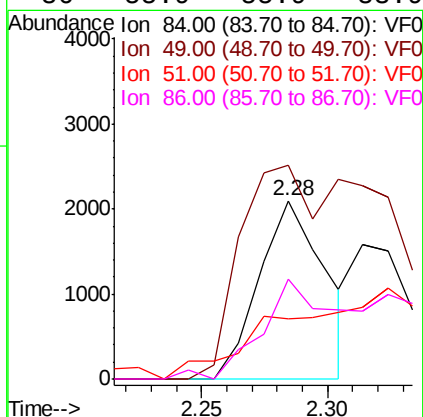
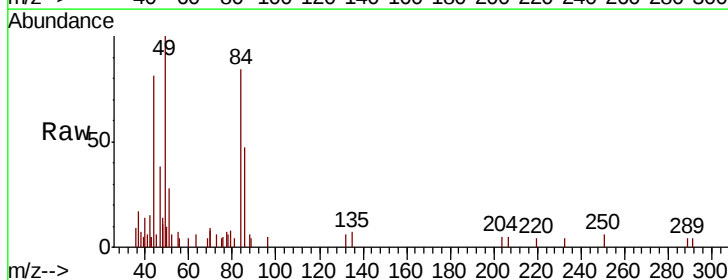
Instrument :
MSVOA_F
ClientSampleId :

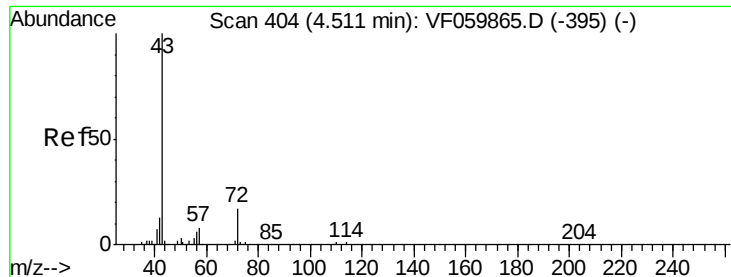
Tot Ion: 43 Resp: 1948
Ion Ratio Lower Upper
43 100
74 24.3 16.3 24.5



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 178
Delta R.T. 0.00 min
Lab File: VF059873.D
Acq: 4 Aug 2018 9:19

Tgt Ion: 84 Resp: 3829
Ion Ratio Lower Upper
84 100
49 119.7 128.7 193.1#
51 33.5 39.3 58.9#
86 55.9 55.9 83.9#





#25

2-Butanone

Concen: 1.842 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

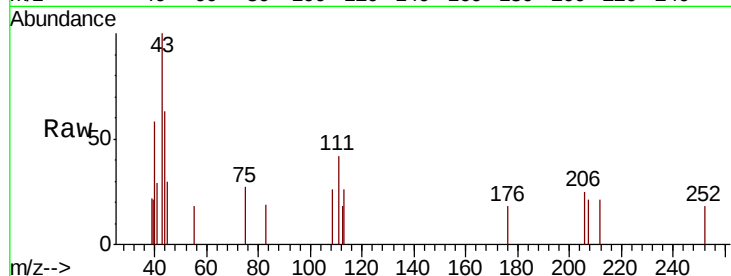
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1102

Ion Ratio Lower Upper

43 100

72 0.0 13.9 20.9#

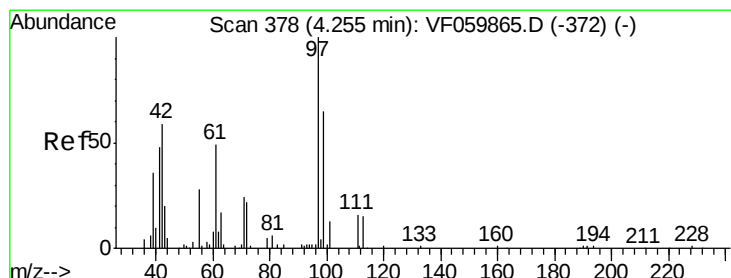
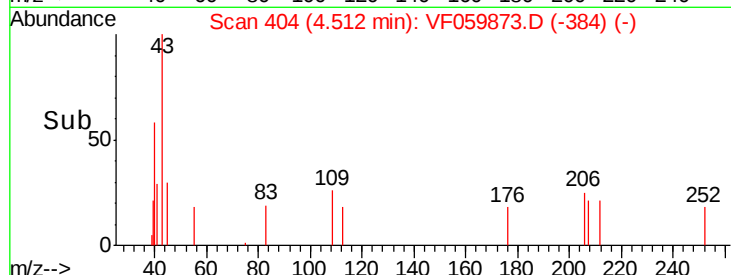
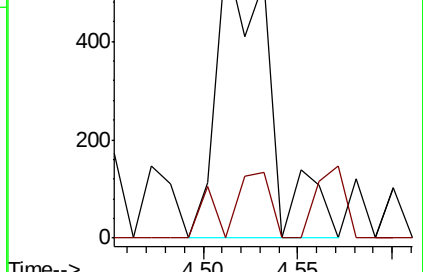


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.51

4.55



#29

Tetrahydrofuran

Concen: 2.198 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.01 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

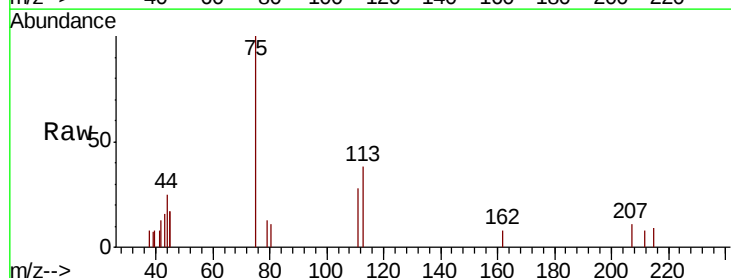
Tgt Ion: 42 Resp: 484

Ion Ratio Lower Upper

42 100

72 37.8 29.3 43.9

71 13.2 30.0 45.0#



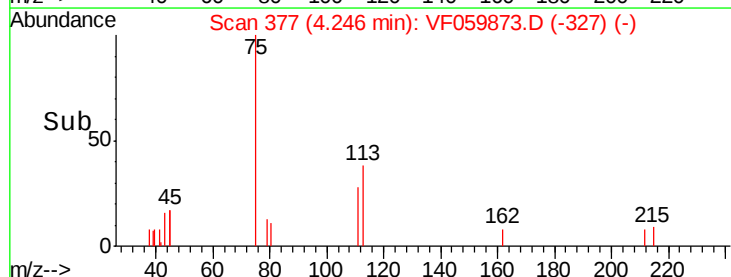
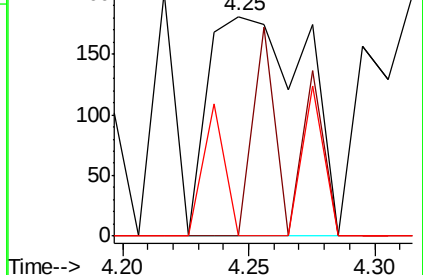
Abundance Ion 42.00 (41.70 to 42.70): VF0

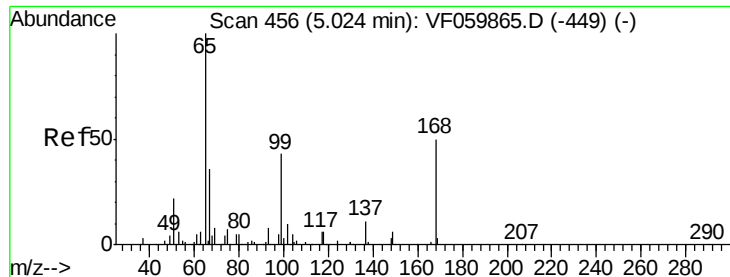
Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

4.25

4.30





#33

1,2-Dichloroethane-d4

Concen: 49.560 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

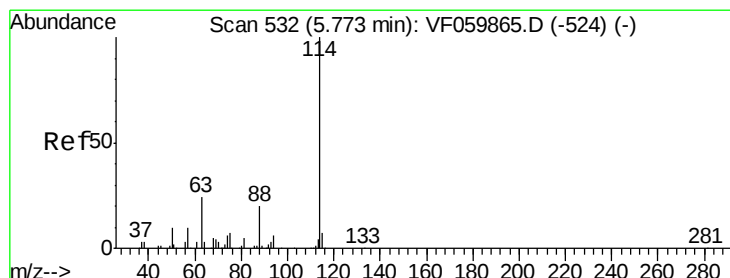
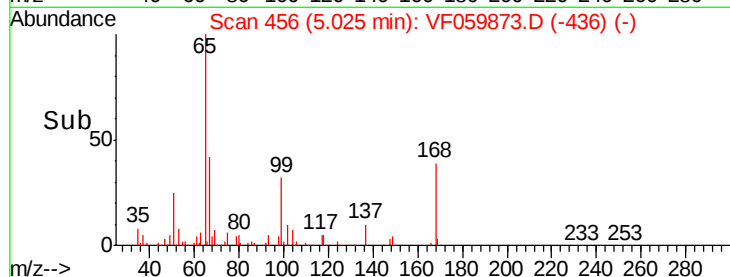
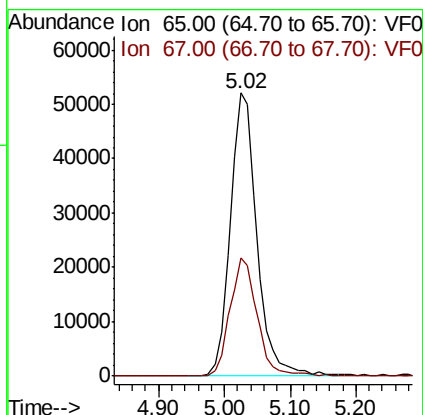
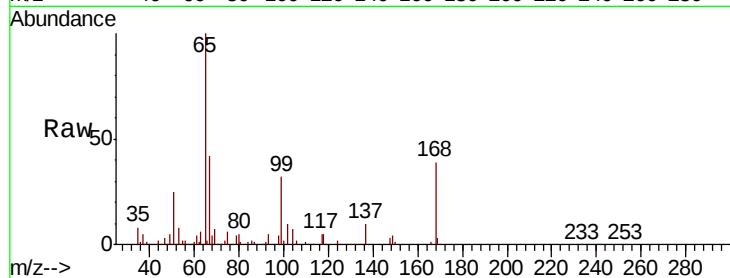
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 147672

Ion Ratio Lower Upper

65 100

67 41.9 0.0 77.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

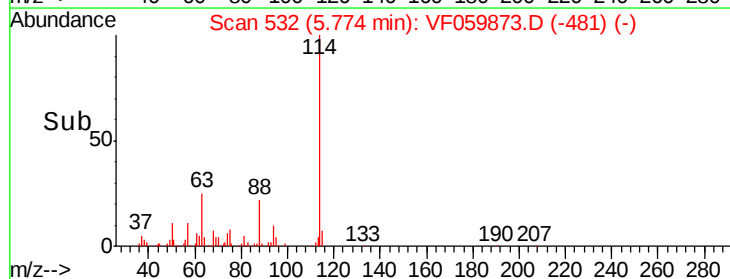
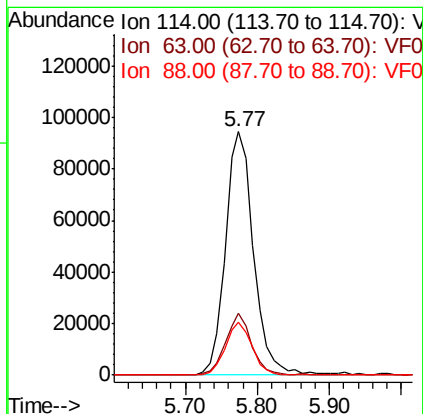
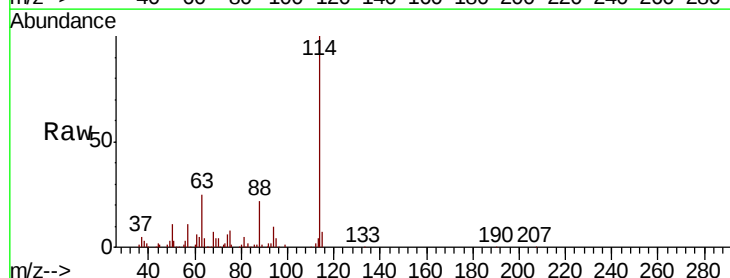
Tgt Ion: 114 Resp: 255359

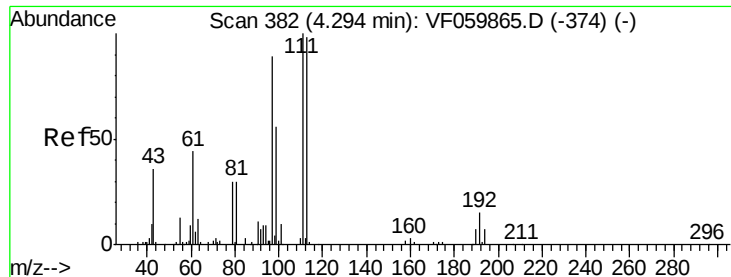
Ion Ratio Lower Upper

114 100

63 25.3 0.0 48.0

88 21.9 0.0 39.4

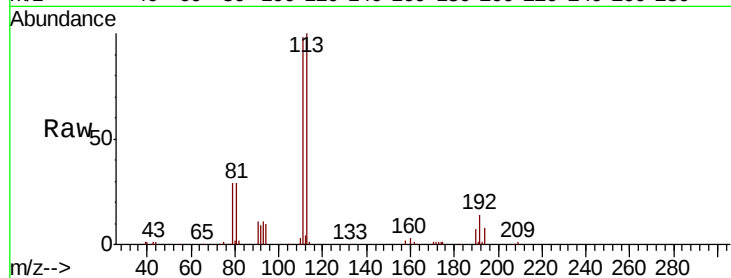




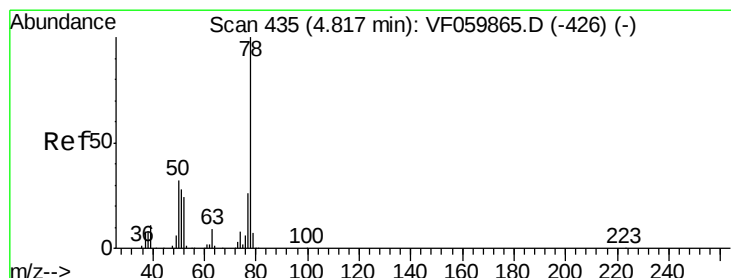
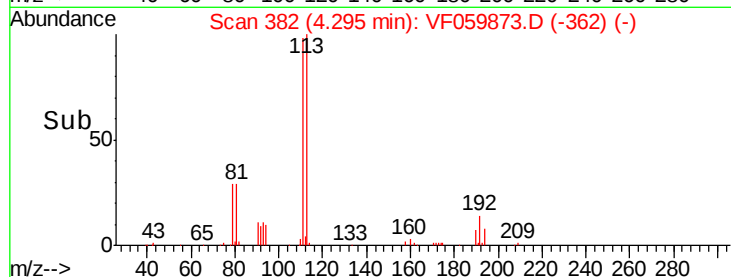
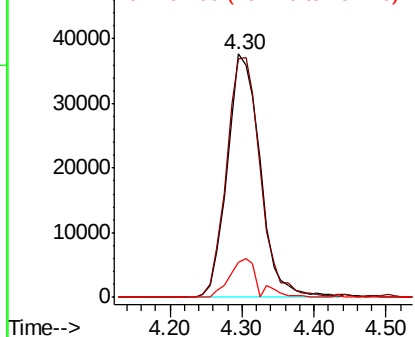
#35
Dibromofluoromethane
Concen: 47.090 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF059873.D
Acq: 4 Aug 2018 9:19

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 119641
Ion Ratio Lower Upper
113 100
111 98.0 81.8 122.8
192 14.2 12.4 18.6

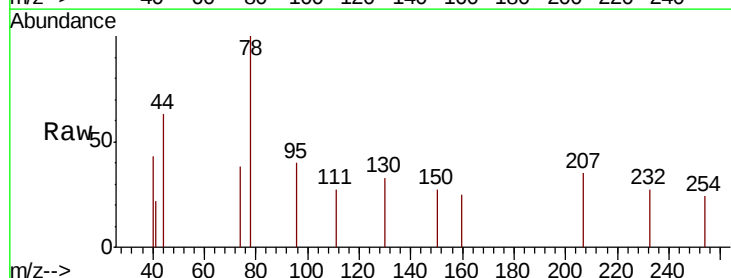


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

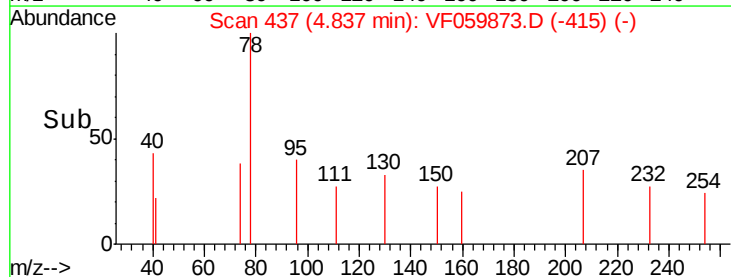
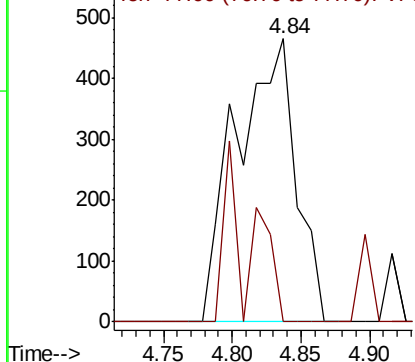


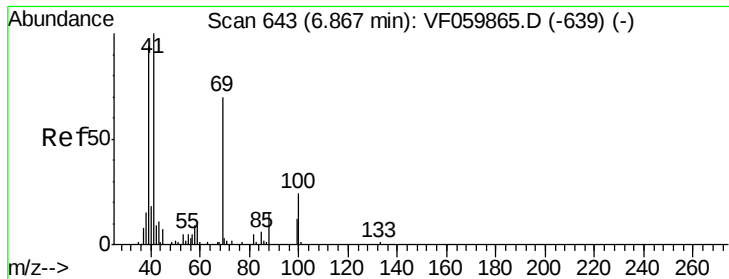
#40
Benzene
Concen: Below Cal
RT: 4.84 min Scan# 437
Delta R.T. 0.02 min
Lab File: VF059873.D
Acq: 4 Aug 2018 9:19

Tgt Ion: 78 Resp: 1398
Ion Ratio Lower Upper
78 100
77 0.0 20.7 31.1#



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0





#49

1,4-Dioxane

Concen: 90.887 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

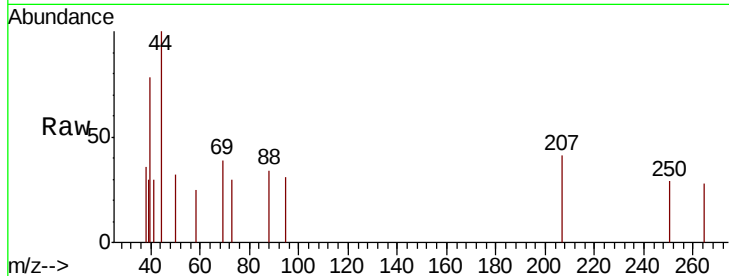
Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 83

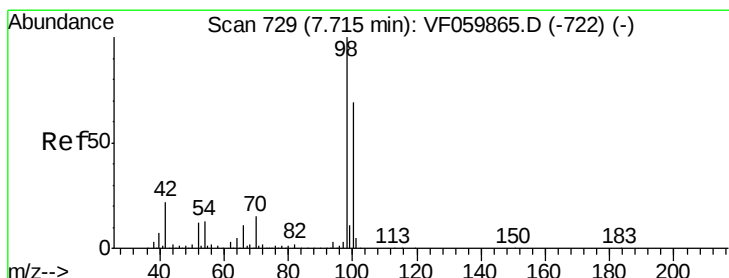
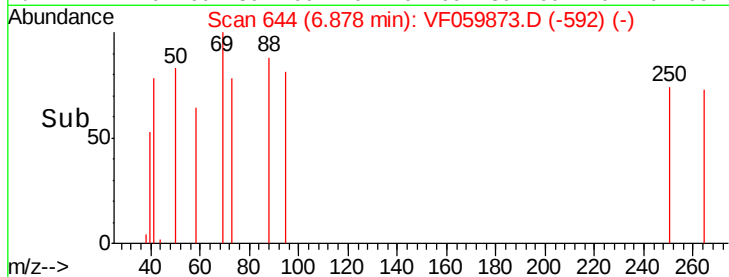
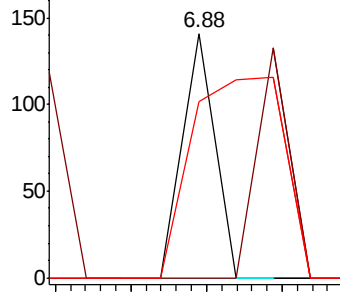
Ion	Ratio	Lower	Upper
88	100		
43	0.0	58.3	87.5#
58	72.3	49.4	74.2



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: 37.814 ug/l

RT: 7.72 min Scan# 729

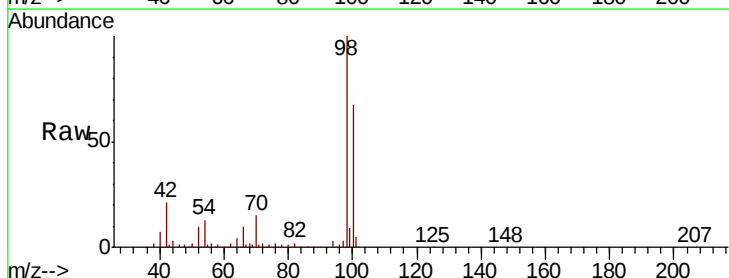
Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

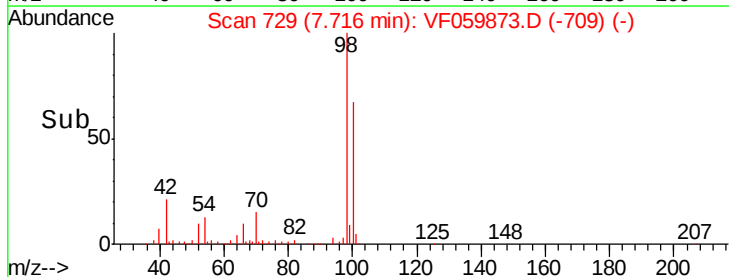
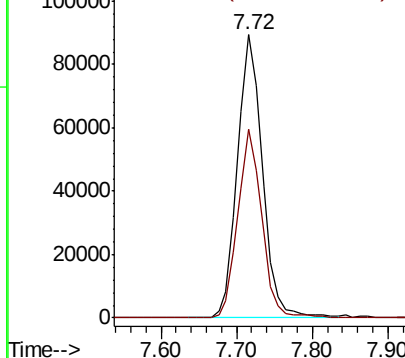
Tgt Ion: 98 Resp: 204416

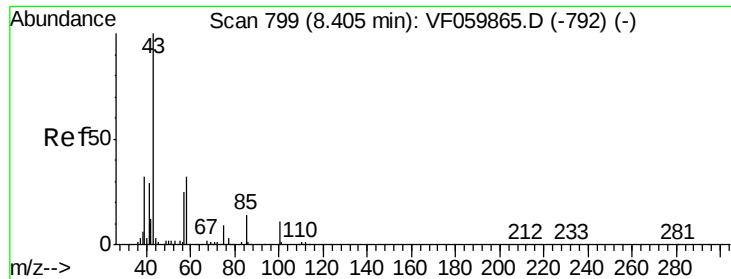
Ion	Ratio	Lower	Upper
98	100		
100	66.7	55.0	82.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.260 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

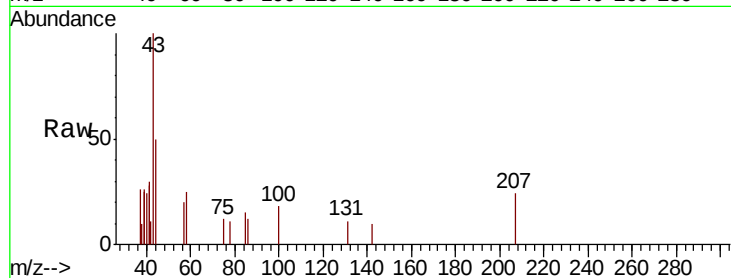
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3017

Ion Ratio Lower Upper

43 100

58 25.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.43

1200

1000

800

600

400

200

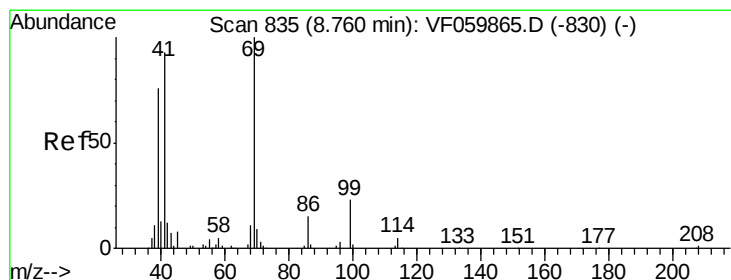
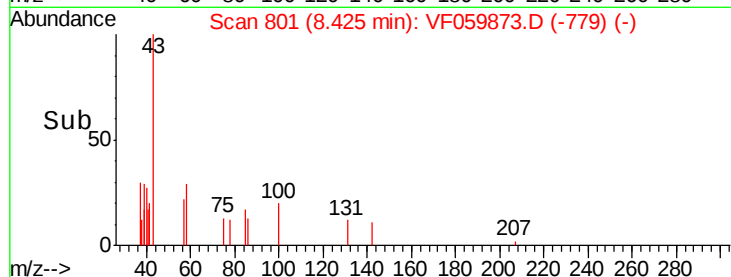
0

Time-->

8.30

8.40

8.50



#56

Ethyl methacrylate

Concen: 3.526 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.02 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

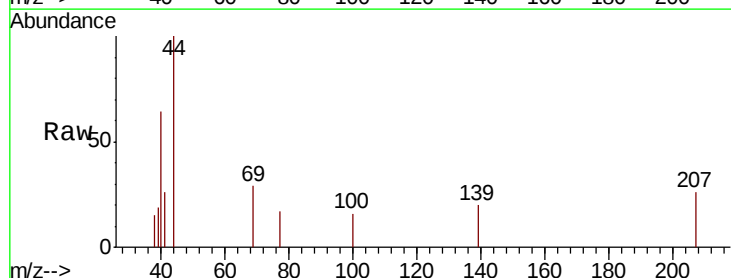
Tgt Ion: 69 Resp: 267

Ion Ratio Lower Upper

69 100

41 88.7 74.7 112.1

39 65.1 61.1 91.7



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

400

300

200

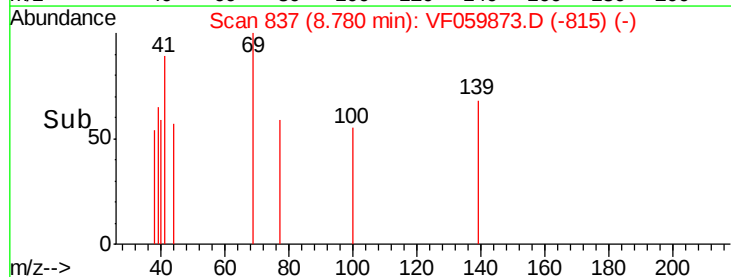
100

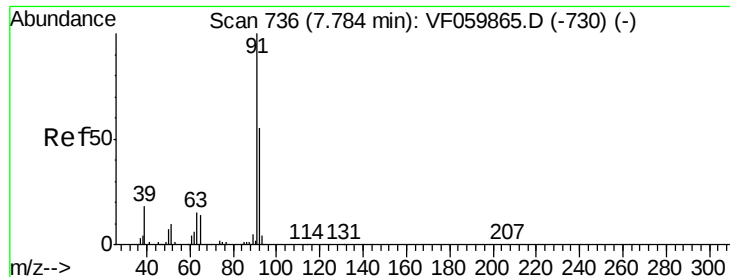
0

Time-->

8.75

8.80





#58

2-Chloroethyl Vinyl ether

Concen: 1.463 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

Instrument :

MSVOA_F

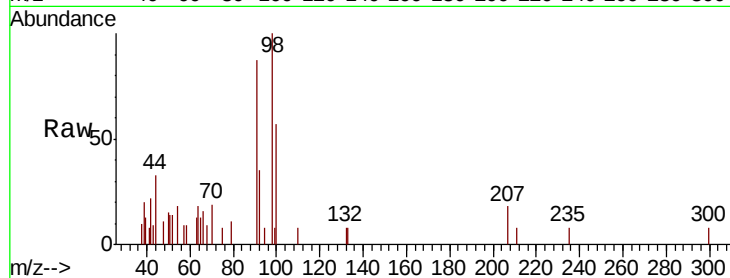
ClientSampleId :

Tot Ion: 63 Resp: 260

Ion Ratio Lower Upper

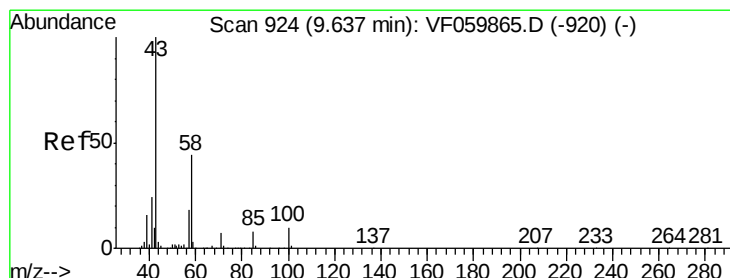
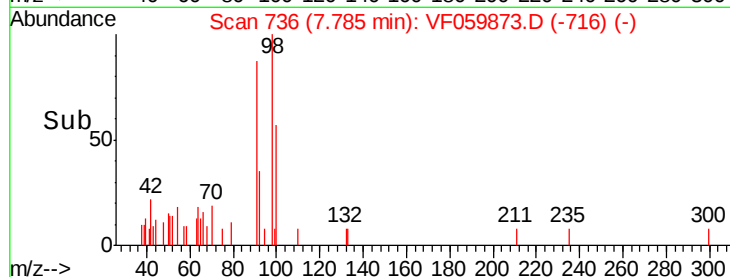
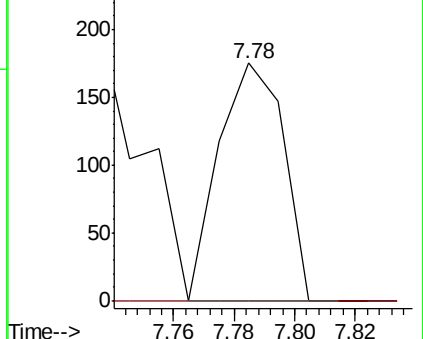
63 100

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



#59

2-Hexanone

Concen: 6.378 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.00 min

Lab File: VF059873.D

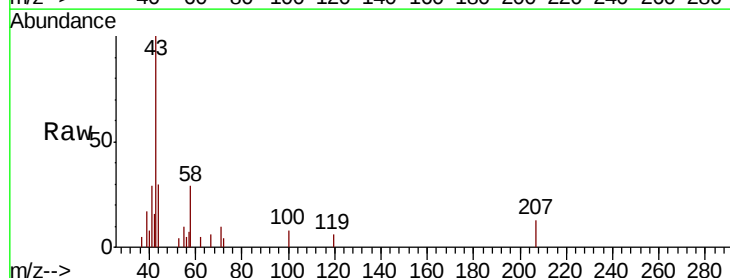
Acq: 4 Aug 2018 9:19

Tgt Ion: 43 Resp: 6016

Ion Ratio Lower Upper

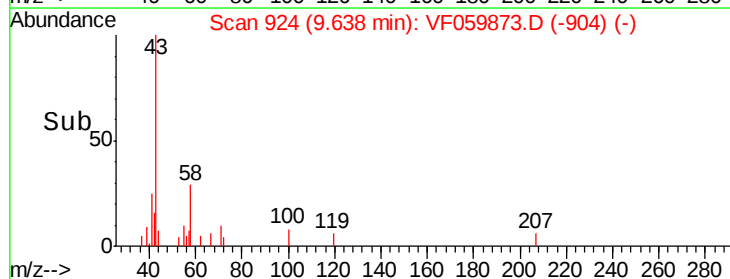
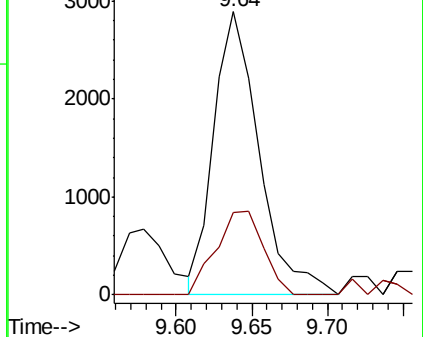
43 100

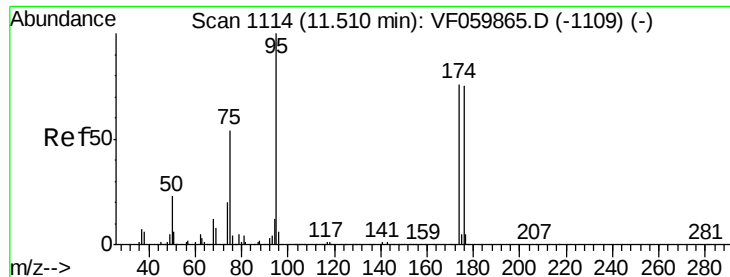
58 29.0 20.8 62.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 24.607 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

Instrument :

MSVOA_F

ClientSampled :

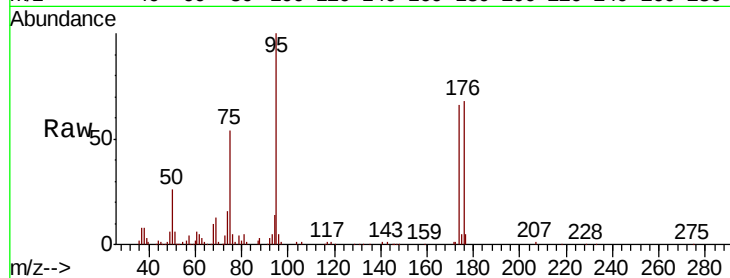
Tot Ion: 95 Resp: 74749

Ion Ratio Lower Upper

95 100

174 65.6 0.0 151.6

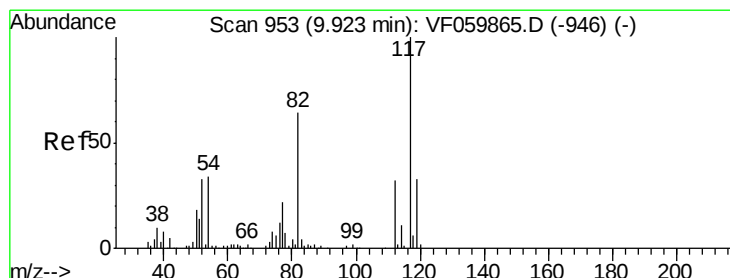
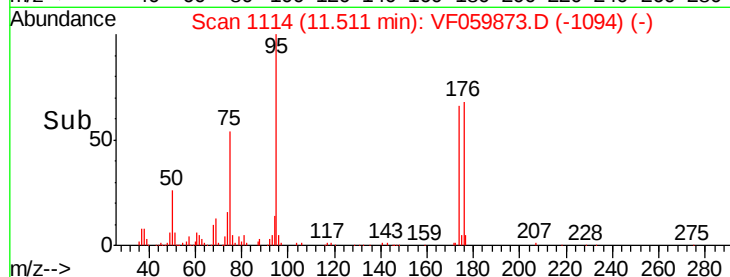
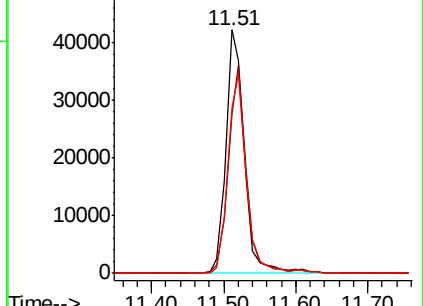
176 68.1 0.0 149.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

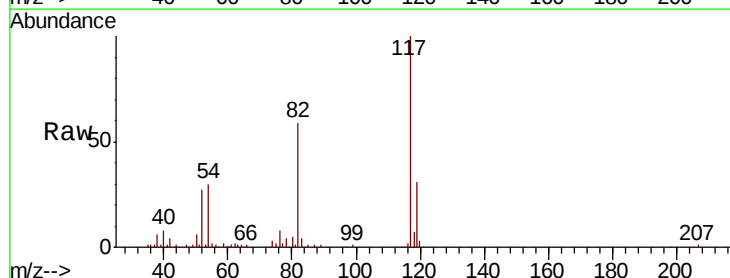
Tgt Ion: 117 Resp: 190591

Ion Ratio Lower Upper

117 100

82 59.5 51.3 76.9

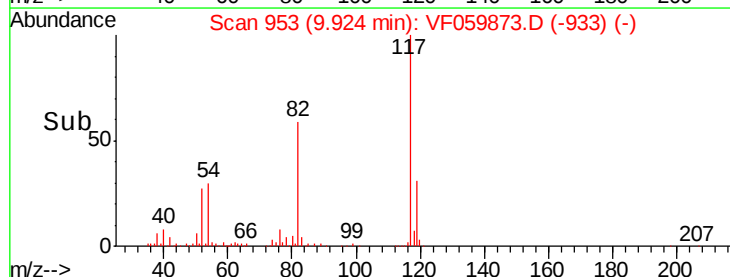
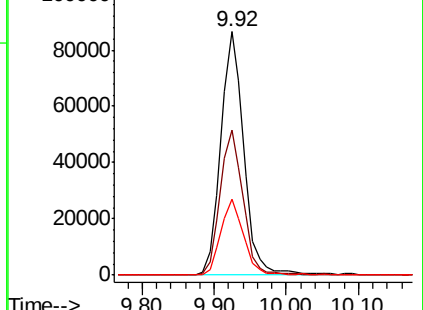
119 31.0 26.4 39.6

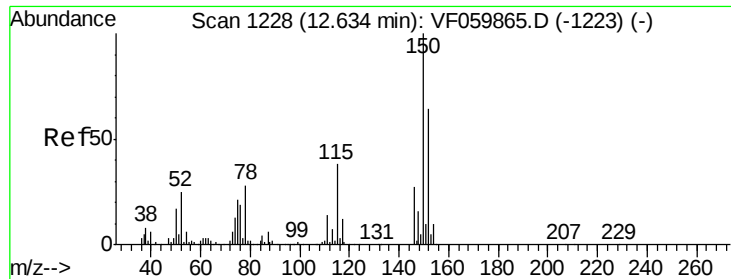


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.63 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

Instrument :

MSVOA_F

ClientSampleId :

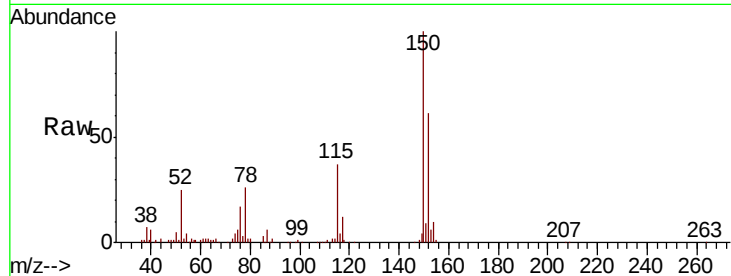
Tot Ion:152 Resp: 58242

Ion Ratio Lower Upper

152 100

115 61.6 29.8 89.4

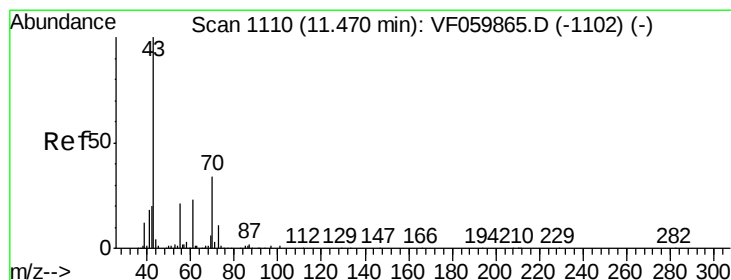
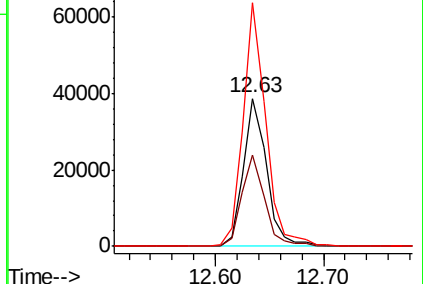
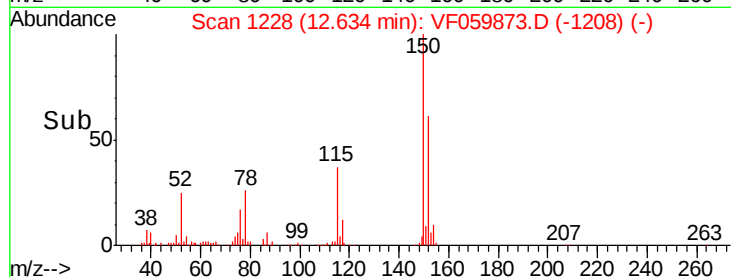
150 164.4 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: 6.040 ug/l

RT: 11.47 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

Tgt Ion: 43 Resp: 2940

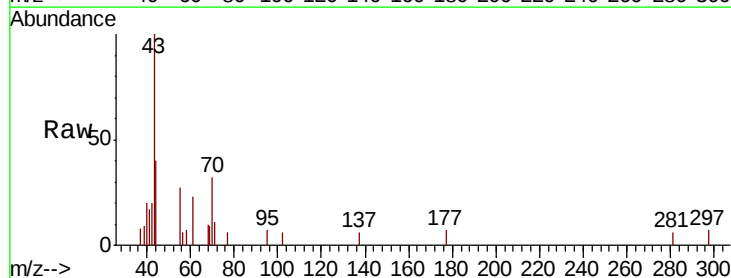
Ion Ratio Lower Upper

43 100

70 32.4 27.5 41.3

55 27.1 16.6 25.0#

61 22.9 18.2 27.4

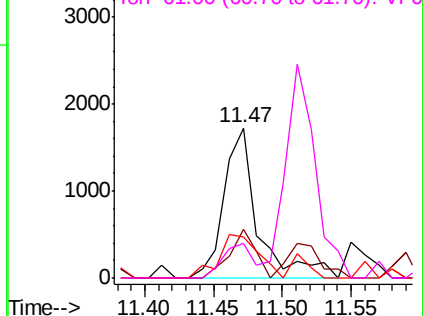
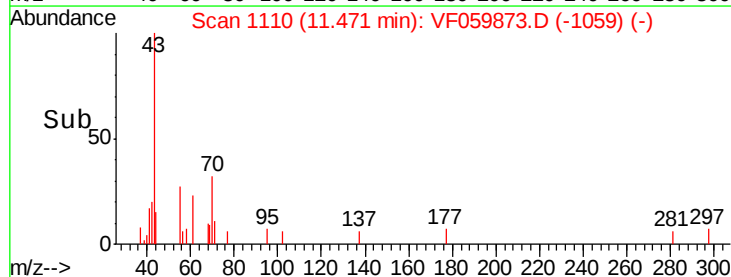


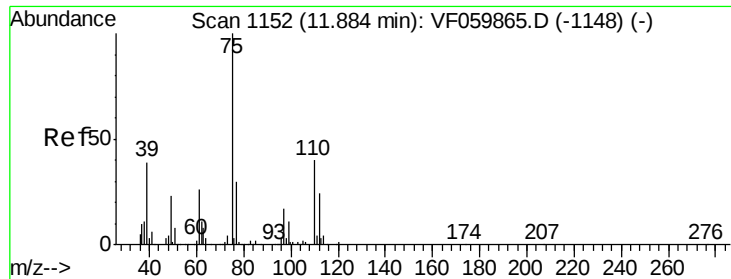
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#76

1,2,3-Trichloropropane

Concen: 1.224 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

Instrument :

MSVOA_F

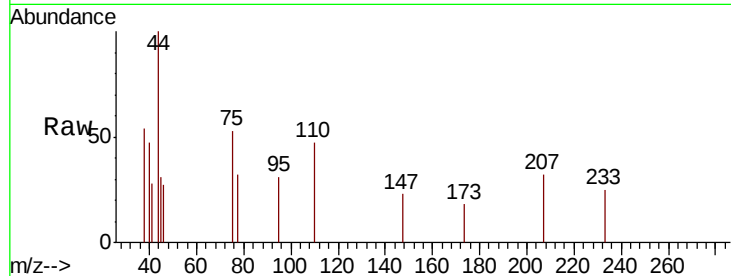
ClientSampled :

Tot Ion: 75 Resp: 716

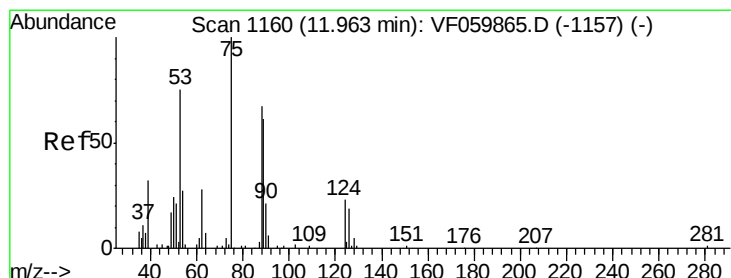
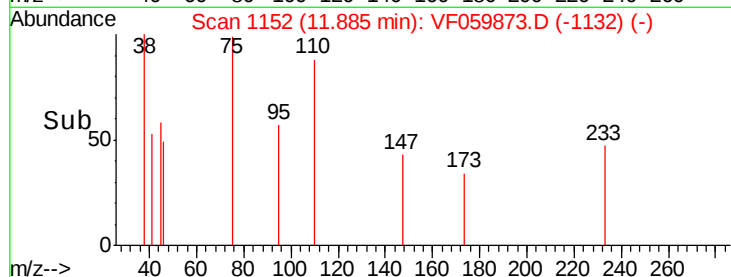
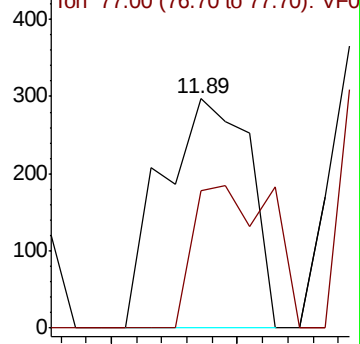
Ion Ratio Lower Upper

75 100

77 59.9 15.4 46.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.799 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VF059873.D

Acq: 4 Aug 2018 9:19

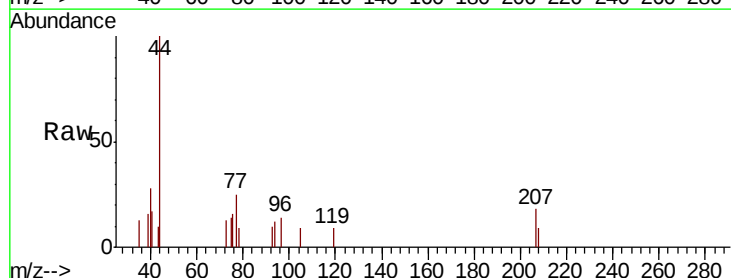
Tgt Ion: 75 Resp: 378

Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

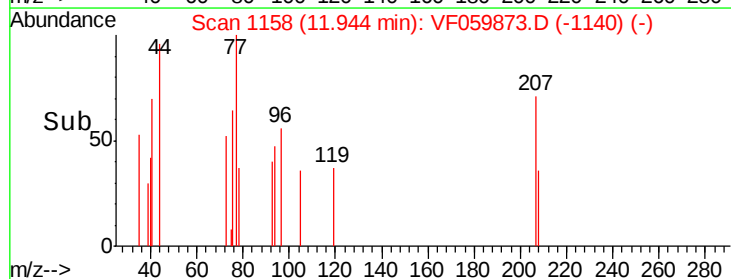
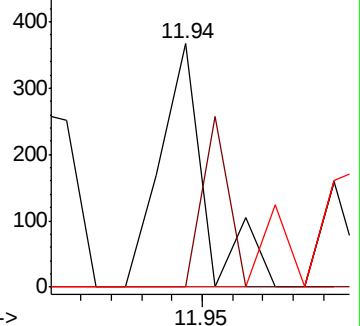
89 0.0 50.6 76.0#

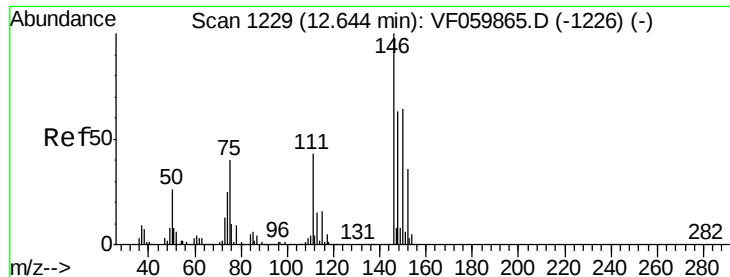


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

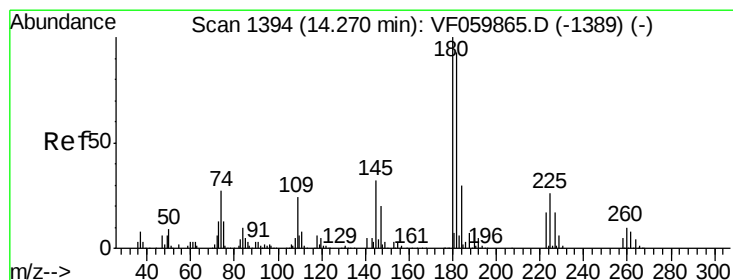
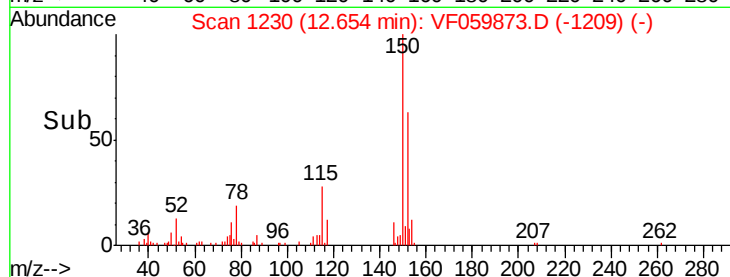
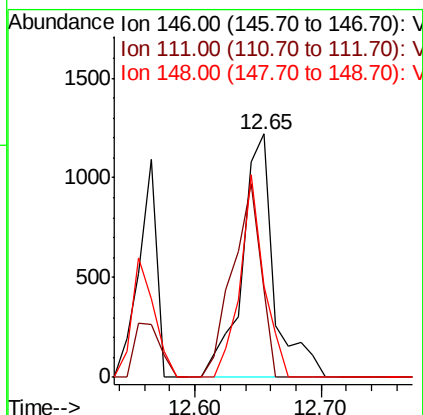
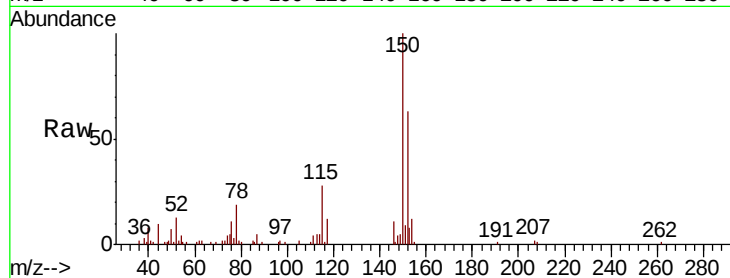




#88
 1,4-Dichlorobenzene
 Concen: 1.174 ug/l
 RT: 12.65 min Scan# 1230
 Delta R.T. 0.01 min
 Lab File: VF059873.D
 Acq: 4 Aug 2018 9:19

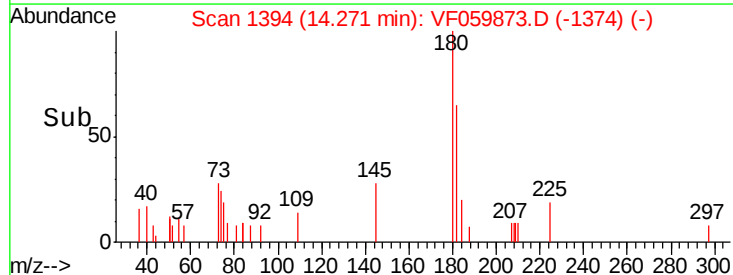
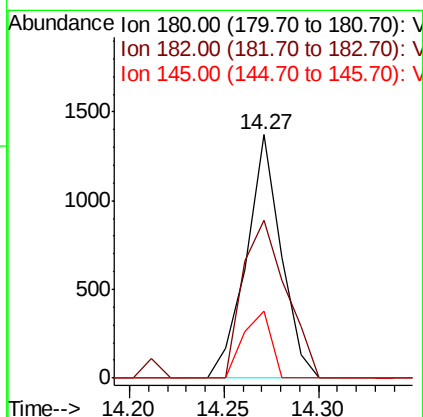
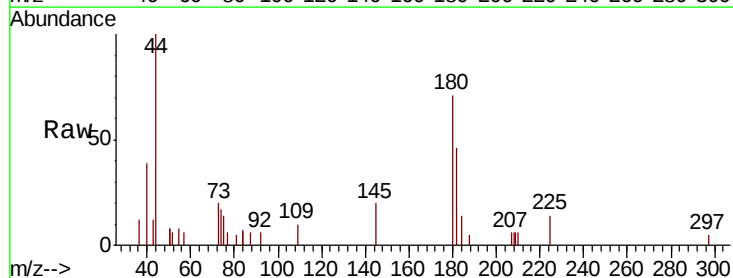
Instrument :
 MSVOA_F
 ClientSampleId :

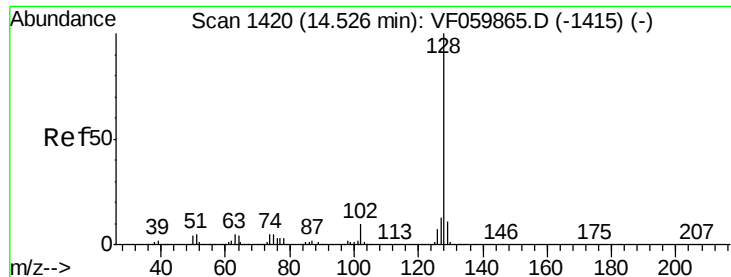
Tot Ion	Ratio	Lower	Upper
146	100		
111	33.2	21.4	64.2
148	34.6	31.6	94.7



#93
 1,2,4-Trichlorobenzene
 Concen: 1.286 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. 0.00 min
 Lab File: VF059873.D
 Acq: 4 Aug 2018 9:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	65.0	46.4	139.2
145	27.7	15.9	47.7

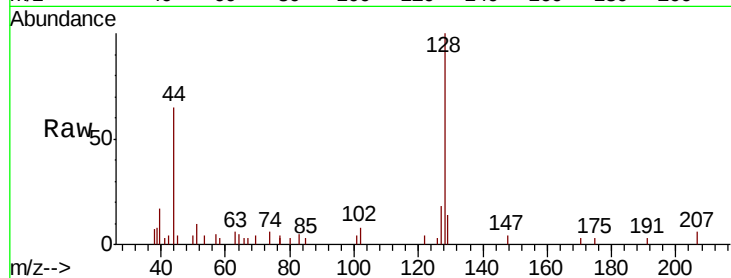




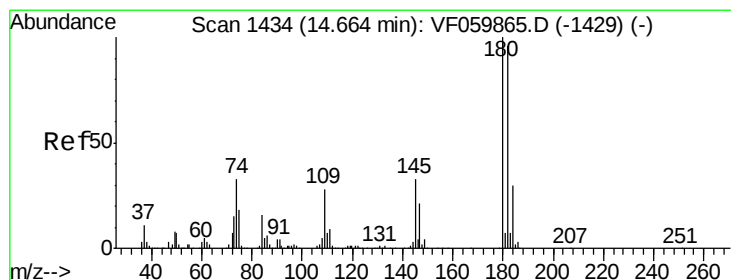
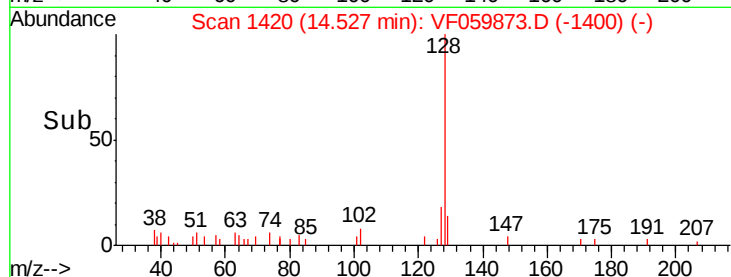
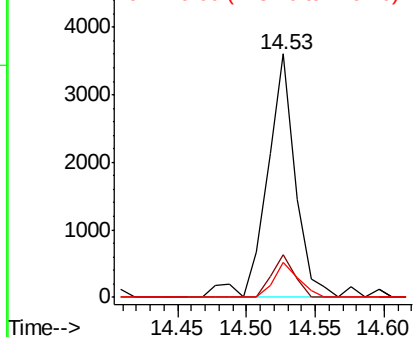
#95
Naphthalene
Concen: 2.156 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. 0.00 min
Lab File: VF059873.D
Acq: 4 Aug 2018 9:19

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 5099
Ion Ratio Lower Upper
128 100
127 17.7 10.4 15.6#
129 14.4 9.0 13.6#

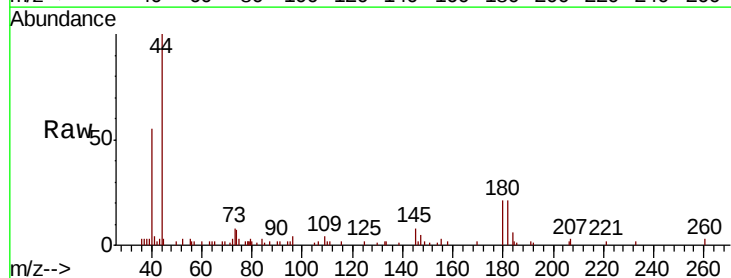


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.481 ug/l
RT: 14.67 min Scan# 1435
Delta R.T. 0.01 min
Lab File: VF059873.D
Acq: 4 Aug 2018 9:19

Tgt Ion:180 Resp: 1997
Ion Ratio Lower Upper
180 100
182 99.0 48.1 144.3
145 36.5 16.6 49.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

