

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF070318\
 Data File : VF059411.D
 Acq On : 3 Jul 2018 14:50
 Operator : VA/AP
 Sample : J3774-07RE
 Misc : 5.62g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-6(4-6)RE

Quant Time: Jul 04 00:11:11 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	5.00	168	26707	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.72	114	34821	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.88	117	27473	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.60	152	10429	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.97	65	7898	22.89	ug/l	-0.03
Spiked Amount			Recovery	=	45.78%	
35) Dibromofluoromethane	4.25	113	9824	38.61	ug/l	-0.03
Spiked Amount			Recovery	=	77.22%	
50) Toluene-d8	7.68	98	29332	46.56	ug/l	-0.02
Spiked Amount			Recovery	=	93.12%	
62) 4-Bromofluorobenzene	11.48	95	10363	29.16	ug/l	-0.02
Spiked Amount			Recovery	=	58.32%	

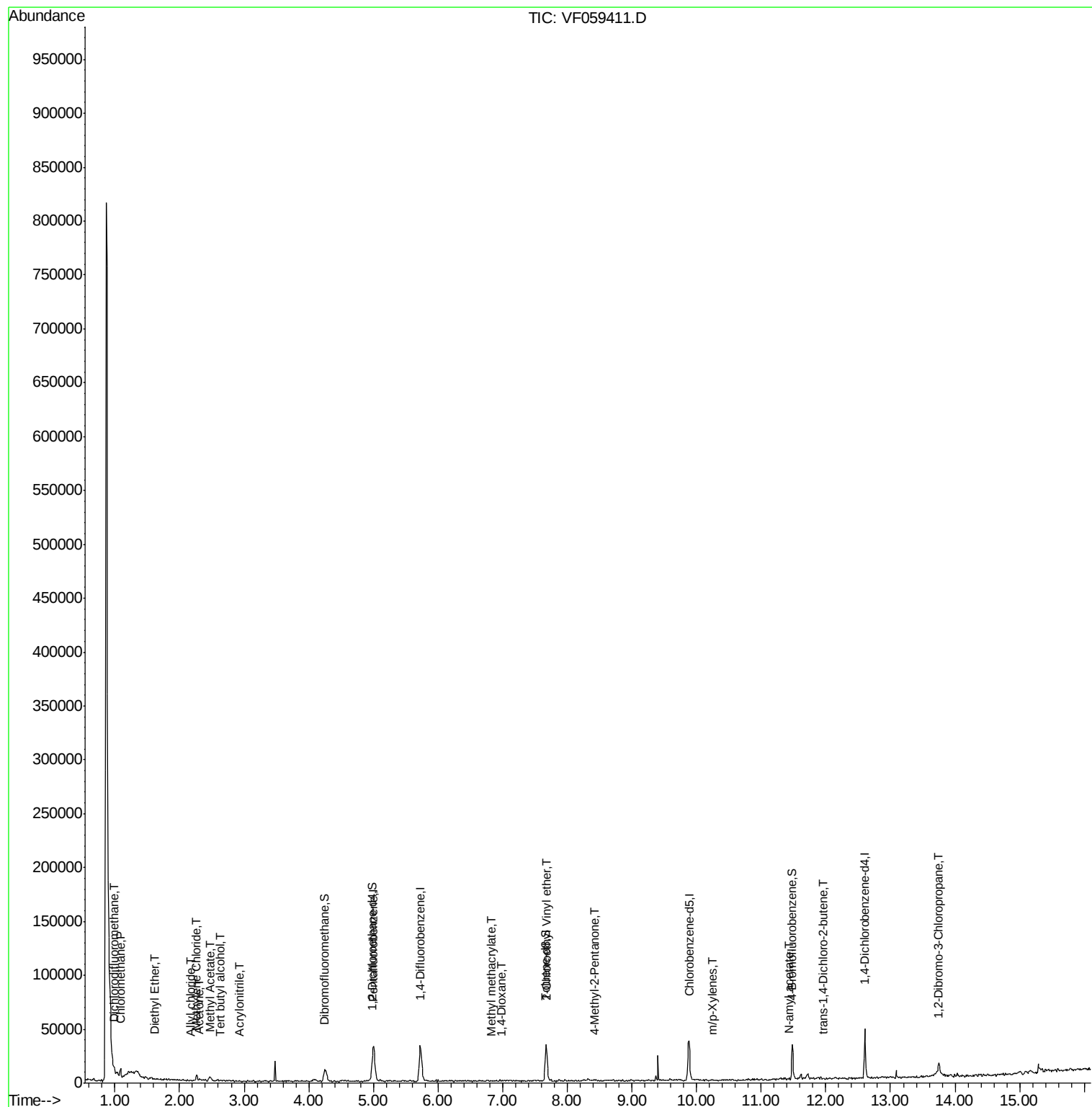
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	468	1.918	ug/l #	40
3) Chloromethane	1.09	50	504	3.075	ug/l #	41
5) Bromomethane	1.32	94	561	Below Cal	#	4
8) Diethyl Ether	1.62	74	155	1.895	ug/l	48
11) Tert butyl alcohol	2.62	59	123	5.355	ug/l #	66
13) Acrolein	2.10	56	77	Below Cal	#	10
14) Allyl chloride	2.17	41	444	1.502	ug/l #	68
15) Acrylonitrile	2.92	53	64	1.582	ug/l #	9
16) Acetone	2.31	43	1268	4.707	ug/l #	65
18) Methyl Acetate	2.46	43	502	2.109	ug/l #	61
20) Methylene Chloride	2.26	84	1612	1.104	ug/l #	78
25) 2-Butanone	4.49	43	187	Below Cal	#	59
28) Bromochloromethane	3.84	49	86	Below Cal	#	6
29) Tetrahydrofuran	4.24	42	183	Below Cal	#	36
37) Ethyl Acetate	4.26	43	226	Below Cal	#	26
48) Methyl methacrylate	6.82	41	227	1.337	ug/l #	50
49) 1,4-Dioxane	6.98	88	82	50.085	ug/l #	20
51) 4-Methyl-2-Pentanone	8.41	43	390	2.078	ug/l #	39
58) 2-Chloroethyl Vinyl ether	7.69	63	61	3.351	ug/l	100
59) 2-Hexanone	9.61	43	936	Below Cal	#	30
68) m/p-Xylenes	10.25	106	323	1.051	ug/l #	2
74) N-amyl acetate	11.43	43	353	1.601	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.95	75	83	1.205	ug/l #	65
92) 1,2-Dibromo-3-Chloropropan	13.74	75	81	2.381	ug/l #	23

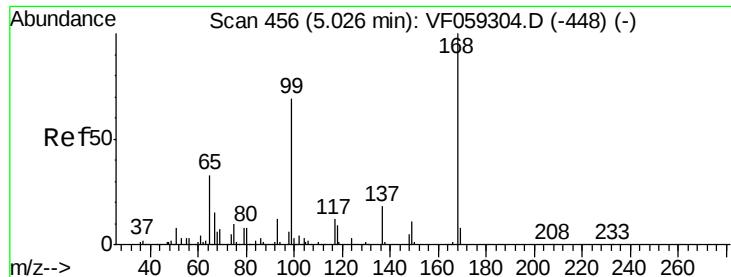
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.00 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

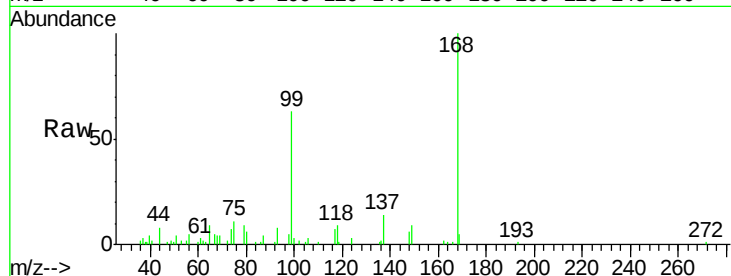
SB-6(4-6)RE

Tgt Ion:168 Resp: 26707

Ion Ratio Lower Upper

168 100

99 62.9 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.00

10000

8000

6000

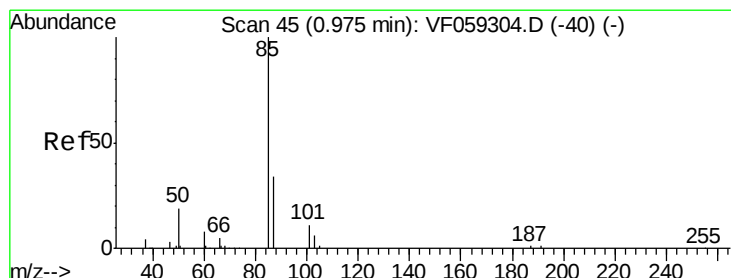
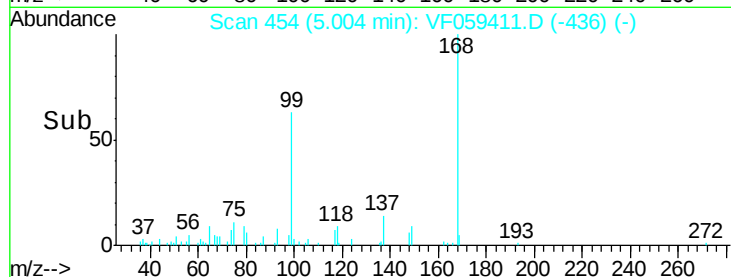
4000

2000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 1.918 ug/l

RT: 0.99 min Scan# 47

Delta R.T. 0.02 min

Lab File: VF059411.D

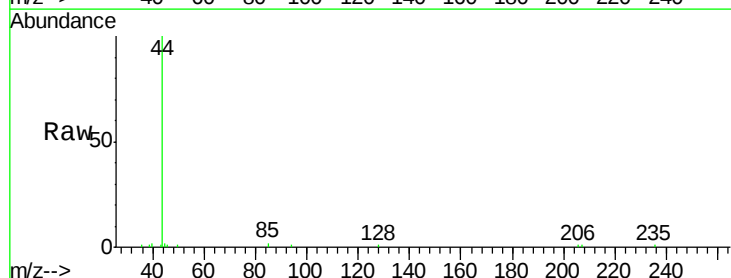
Acq: 3 Jul 2018 14:50

Tgt Ion: 85 Resp: 468

Ion Ratio Lower Upper

85 100

87 0.0 17.1 51.3#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

300

250

200

150

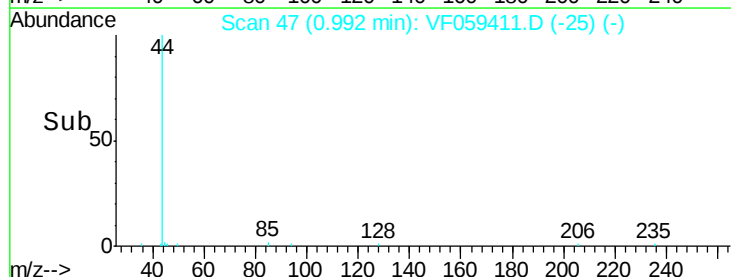
100

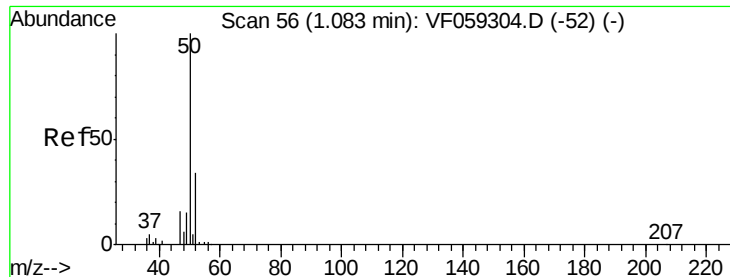
50

0

Time-->

0.95 1.00





#3

Chloromethane

Concen: 3.075 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

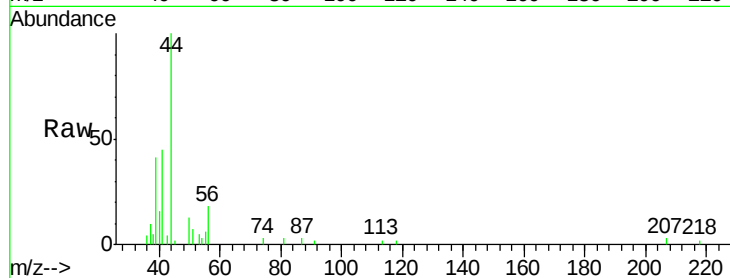
SB-6(4-6)RE

Tgt Ion: 50 Resp: 504

Ion Ratio Lower Upper

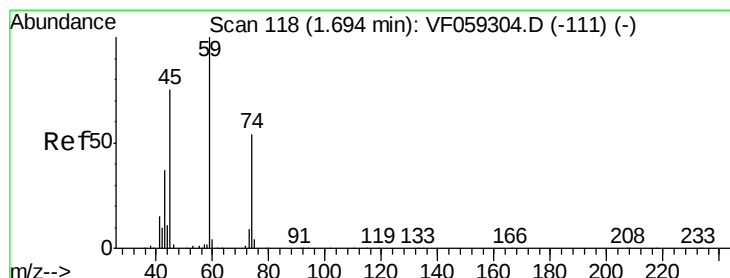
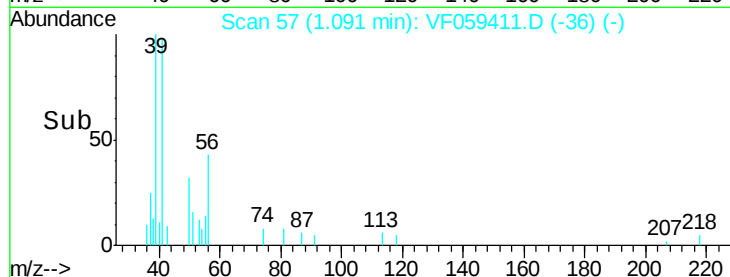
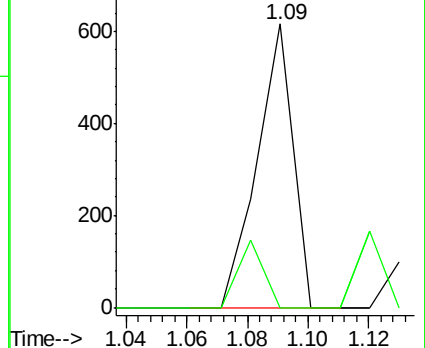
50 100

52 0.0 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#8

Diethyl Ether

Concen: 1.895 ug/l

RT: 1.62 min Scan# 111

Delta R.T. -0.07 min

Lab File: VF059411.D

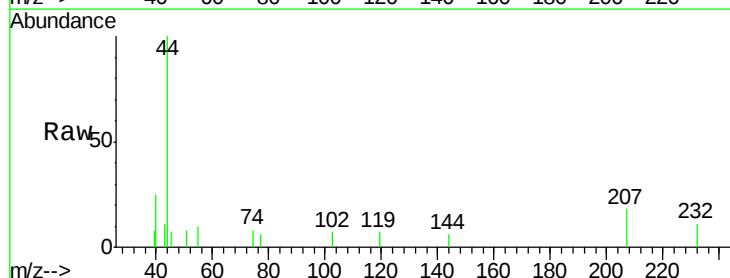
Acq: 3 Jul 2018 14:50

Tgt Ion: 74 Resp: 155

Ion Ratio Lower Upper

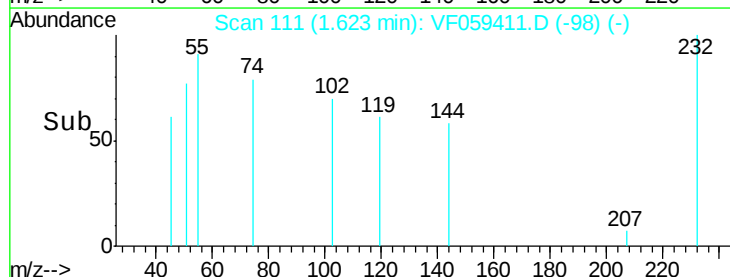
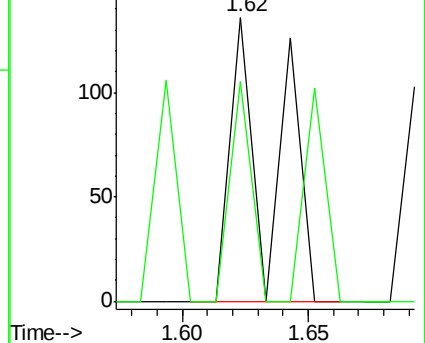
74 100

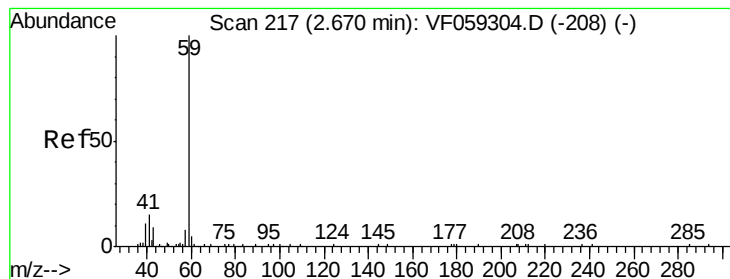
45 77.2 70.0 210.0



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#11

Tert butyl alcohol

Concen: 5.355 ug/l

RT: 2.62 min Scan# 212

Delta R.T. -0.05 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

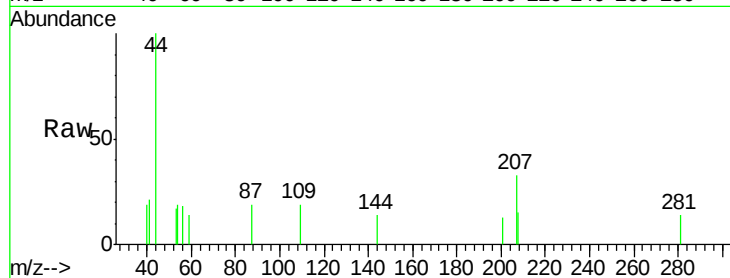
SB-6(4-6)RE

Tgt Ion: 59 Resp: 123

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.62

100

80

60

40

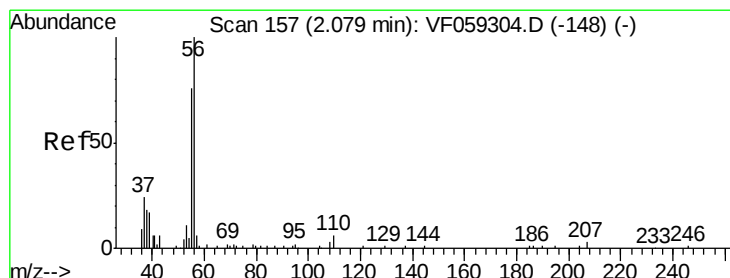
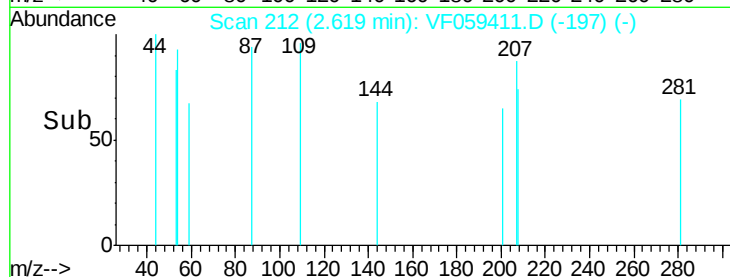
20

0

Time-->

2.60

2.65



#13

Acrolein

Concen: Below Cal

RT: 2.10 min Scan# 159

Delta R.T. 0.02 min

Lab File: VF059411.D

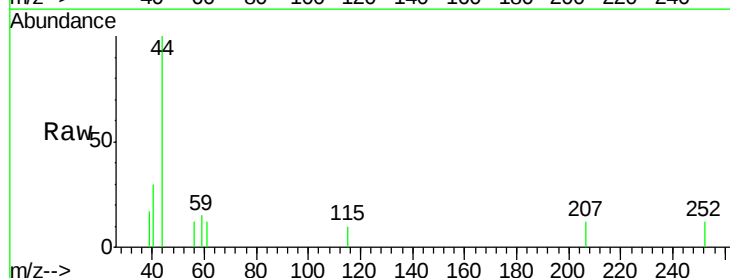
Acq: 3 Jul 2018 14:50

Tgt Ion: 56 Resp: 77

Ion Ratio Lower Upper

56 100

55 0.0 62.4 93.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.10

150

100

50

0

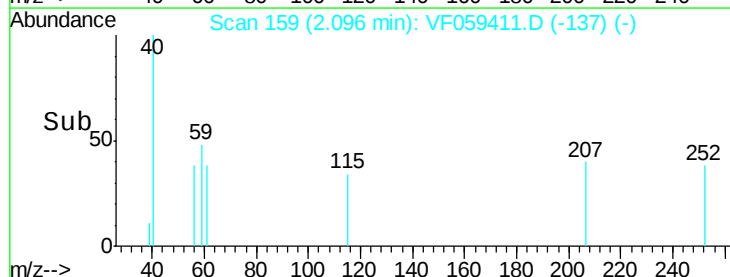
Time-->

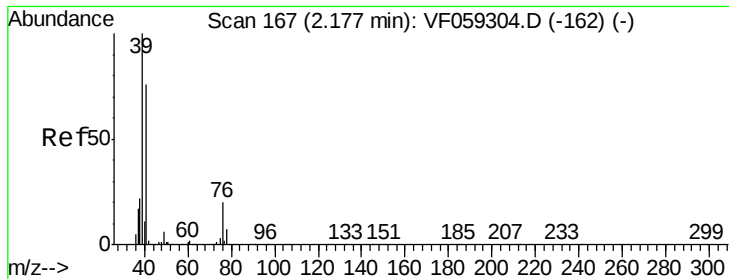
2.06

2.08

2.10

2.12





#14

Allyl chloride

Concen: 1.502 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.01 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

SB-6(4-6)RE

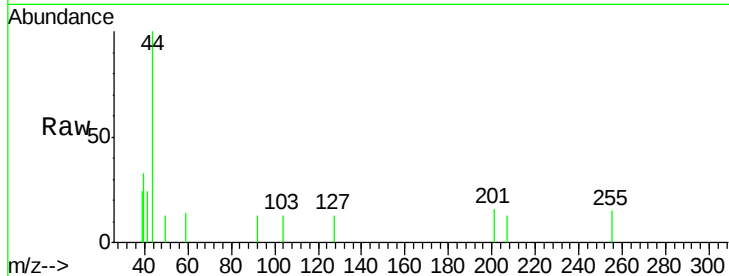
Tgt Ion: 41 Resp: 444

Ion Ratio Lower Upper

41 100

39 99.5 105.6 158.4#

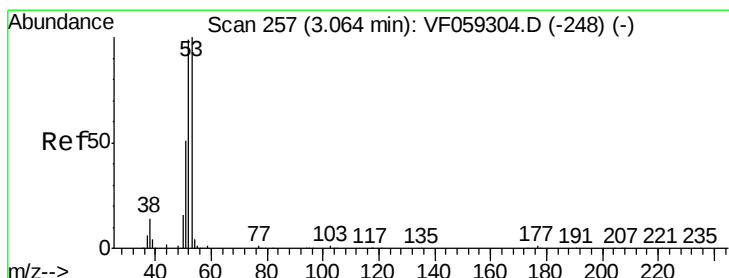
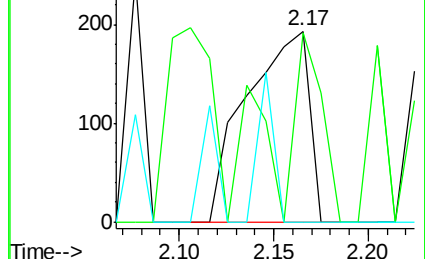
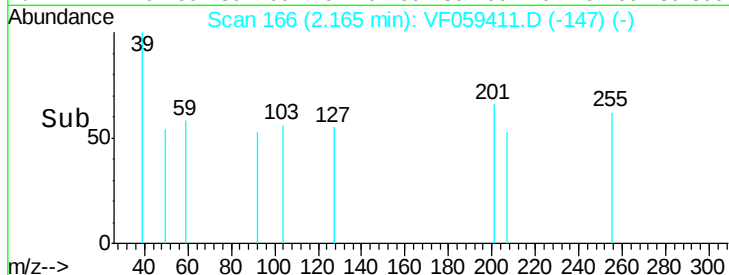
76 0.0 21.6 32.4#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



#15

Acrylonitrile

Concen: 1.582 ug/l

RT: 2.92 min Scan# 243

Delta R.T. -0.14 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

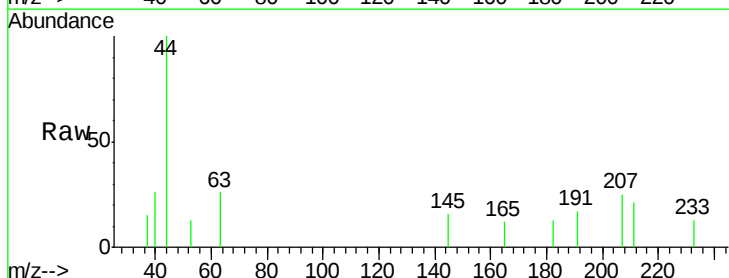
Tgt Ion: 53 Resp: 64

Ion Ratio Lower Upper

53 100

52 0.0 79.2 118.8#

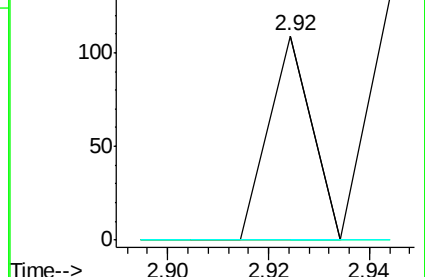
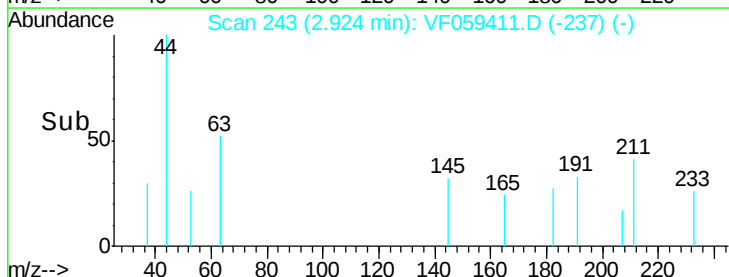
51 0.0 40.9 61.3#

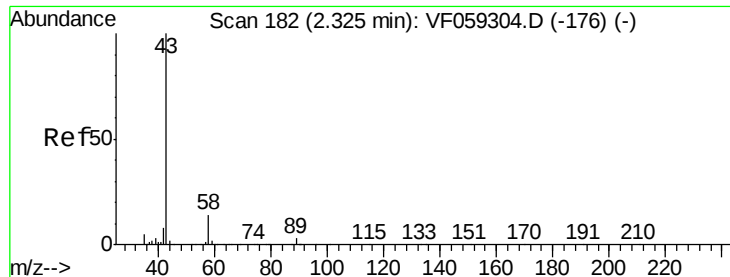


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 4.707 ug/l

RT: 2.31 min Scan# 181

Delta R.T. -0.01 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

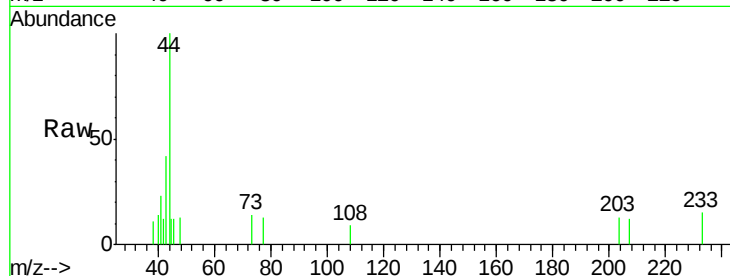
SB-6(4-6)RE

Tgt Ion: 43 Resp: 1268

Ion Ratio Lower Upper

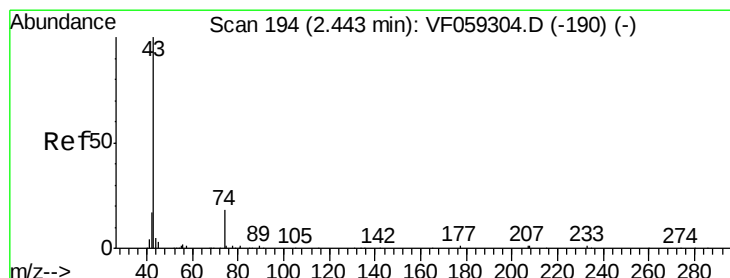
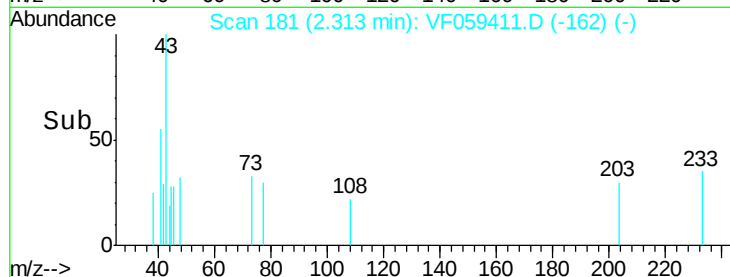
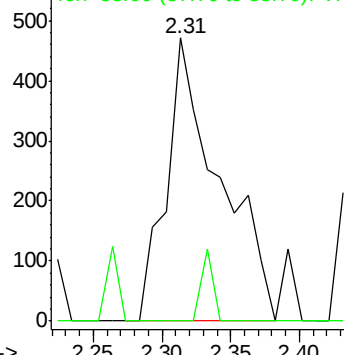
43 100

58 0.0 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 2.109 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.02 min

Lab File: VF059411.D

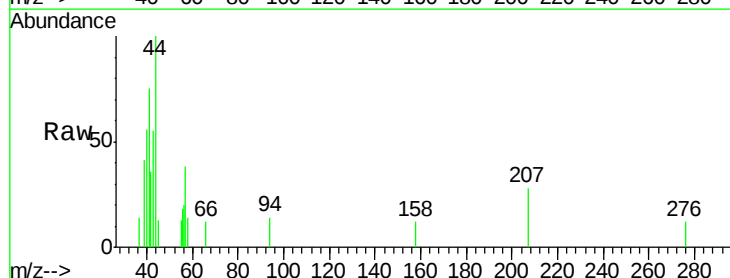
Acq: 3 Jul 2018 14:50

Tgt Ion: 43 Resp: 502

Ion Ratio Lower Upper

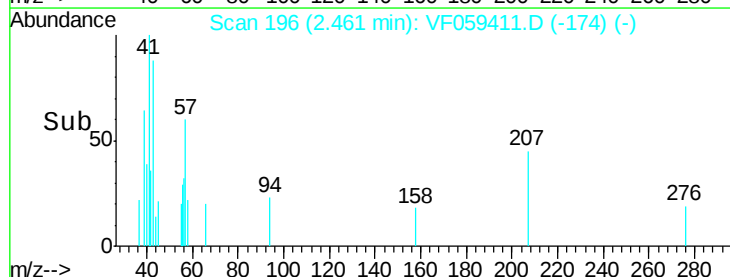
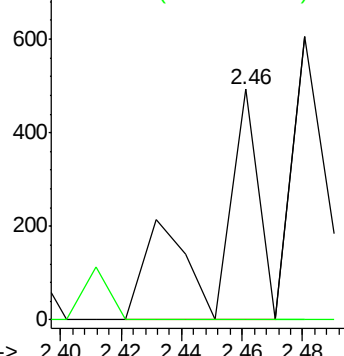
43 100

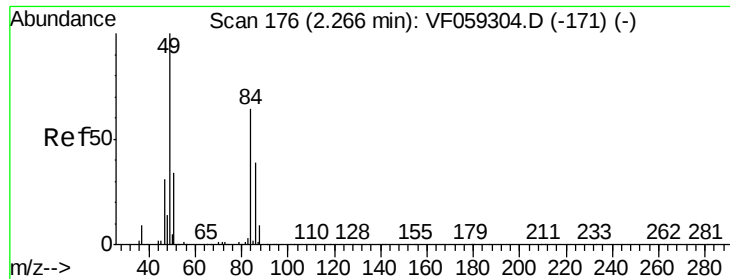
74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

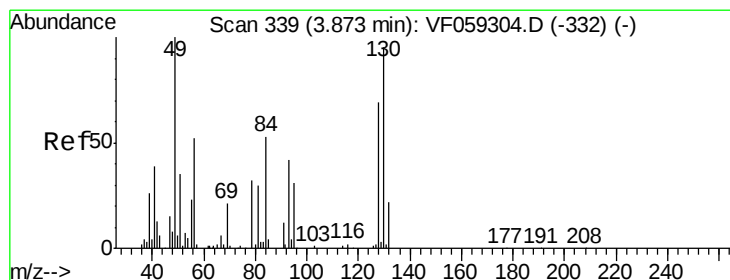
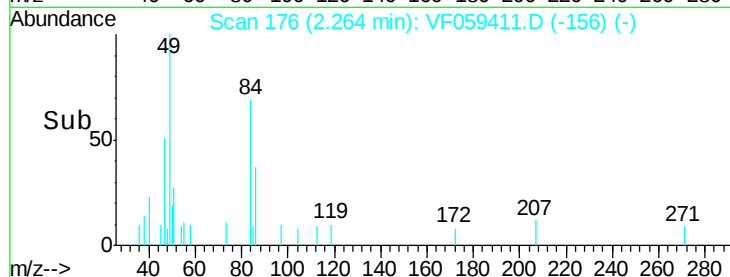
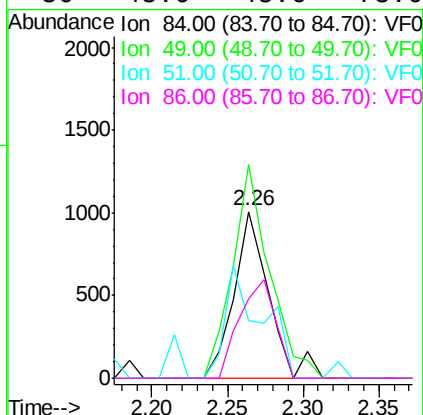
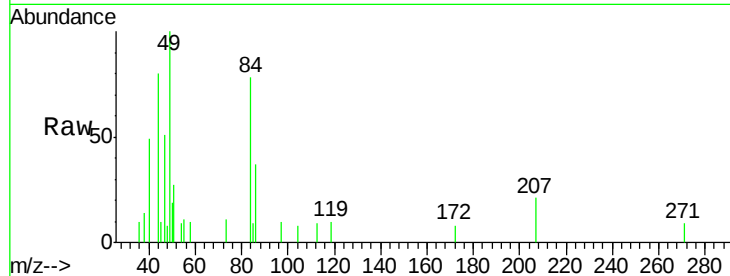




#20
Methylene Chloride
Concen: 1.104 ug/l
RT: 2.26 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

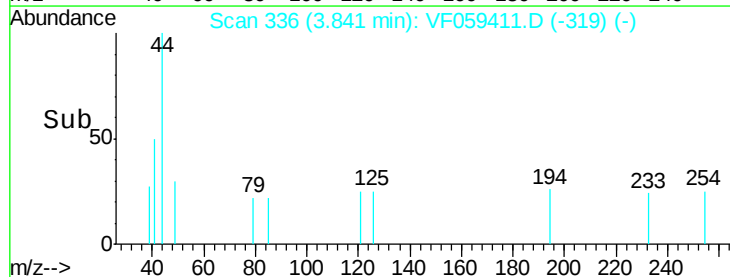
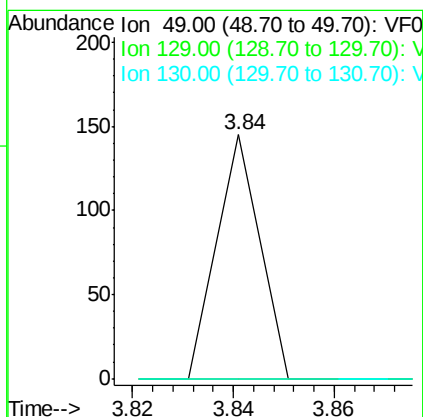
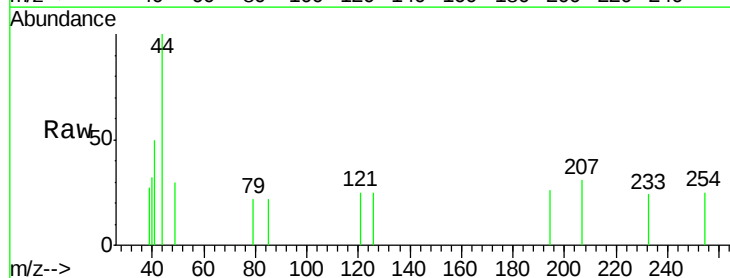
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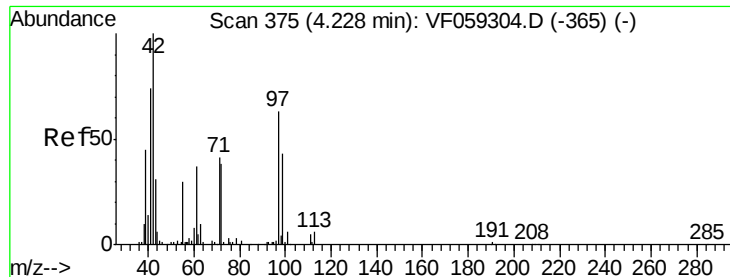
Tgt Ion:	84	Resp:	1612
Ion	Ratio	Lower	Upper
84	100		
49	128.2	126.5	189.7
51	34.9	42.9	64.3#
86	48.0	48.6	73.0#



#28
Bromochloromethane
Concen: Below Cal
RT: 3.84 min Scan# 336
Delta R.T. -0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion:	49	Resp:	86
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	6.4
130	0.0	75.1	112.7#

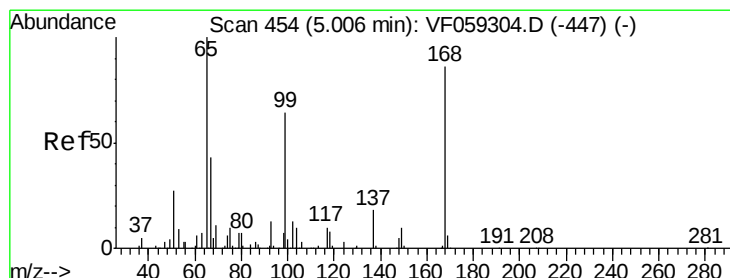
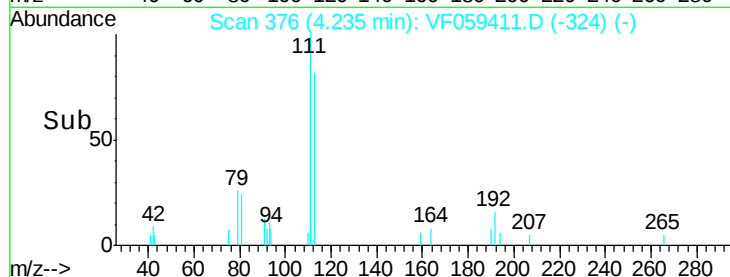
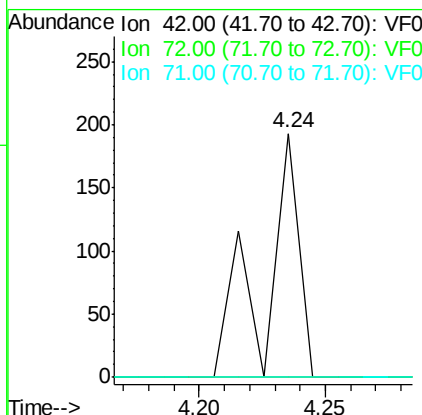
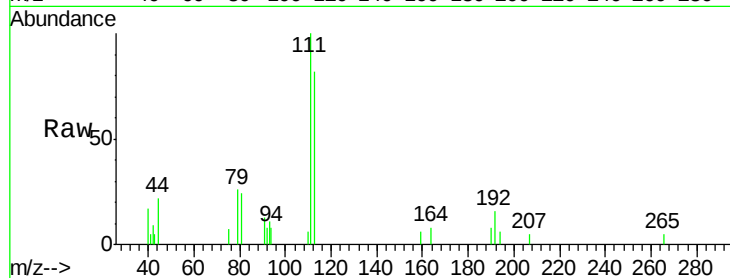




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.24 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

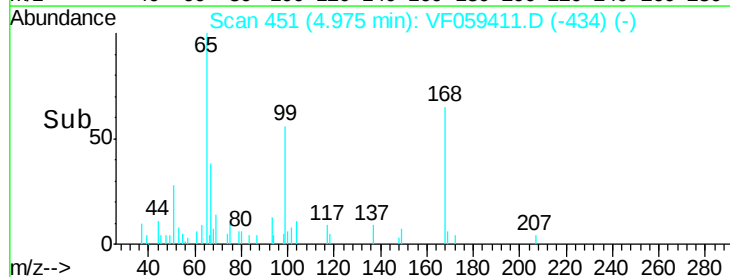
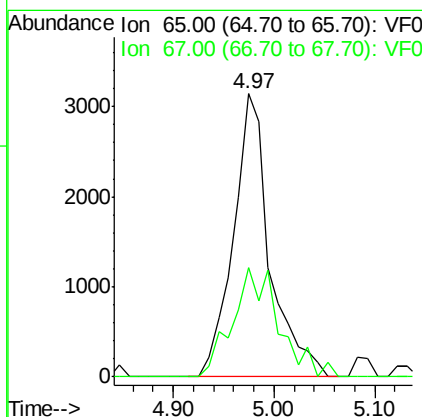
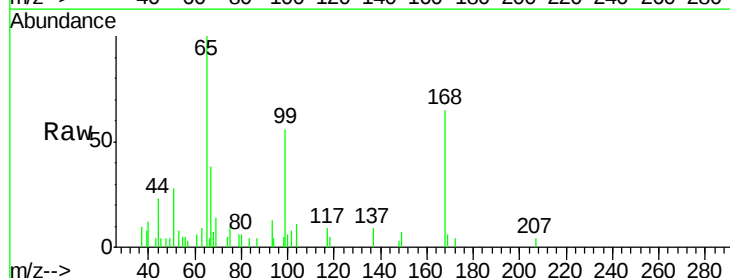
Instrument :
MSVOA_F
ClientSampleId :
SB-6(4-6)RE

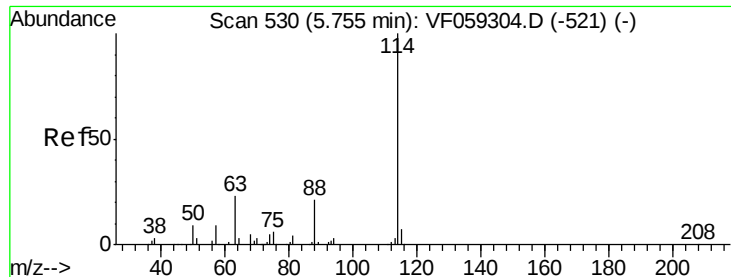
Tgt Ion: 42 Resp: 183
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 0.0 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 22.889 ug/l
RT: 4.97 min Scan# 451
Delta R.T. -0.03 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 65 Resp: 7898
Ion Ratio Lower Upper
65 100
67 38.4 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.72 min Scan# 527

Delta R.T. -0.03 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

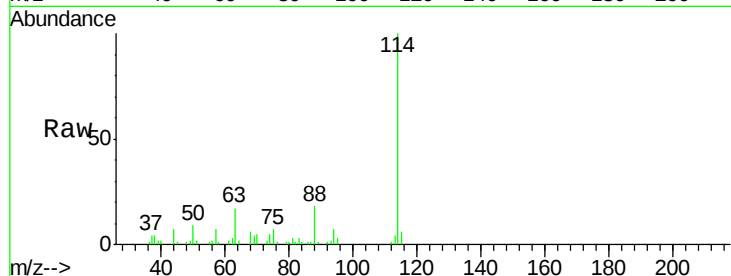
Instrument :

MSVOA_F

ClientSampleId :

SB-6(4-6)RE

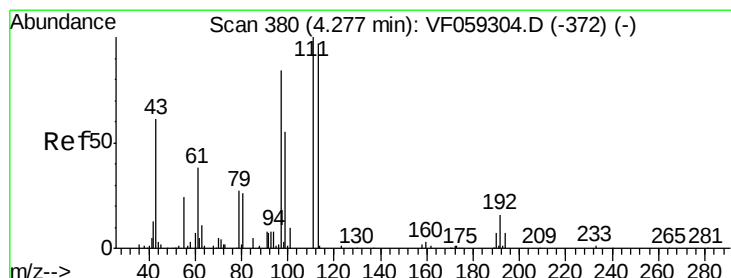
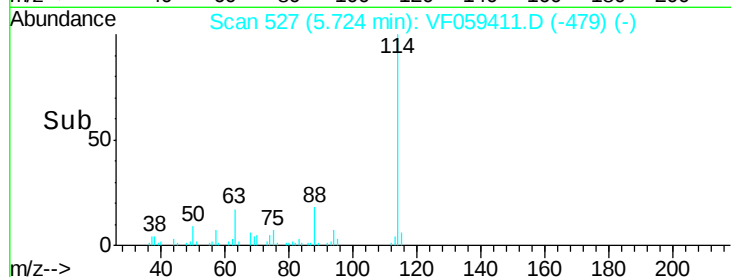
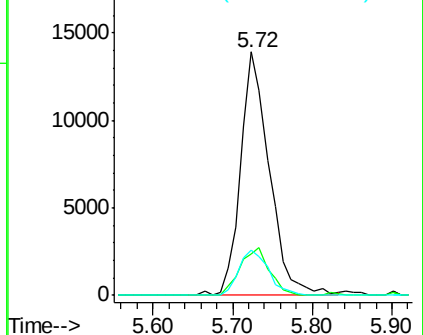
Tgt Ion:	114	Resp:	34821
Ion	Ratio	Lower	Upper
114	100		
63	16.9	0.0	45.8
88	18.4	0.0	41.2



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: 38.612 ug/l

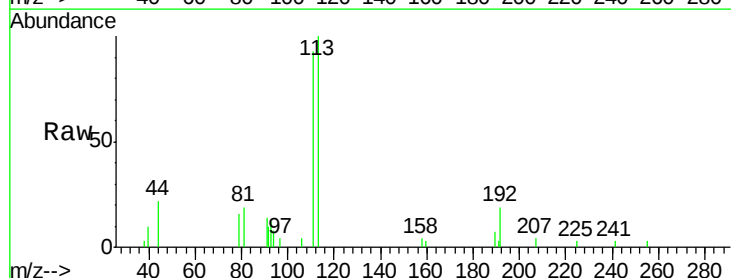
RT: 4.25 min Scan# 377

Delta R.T. -0.03 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

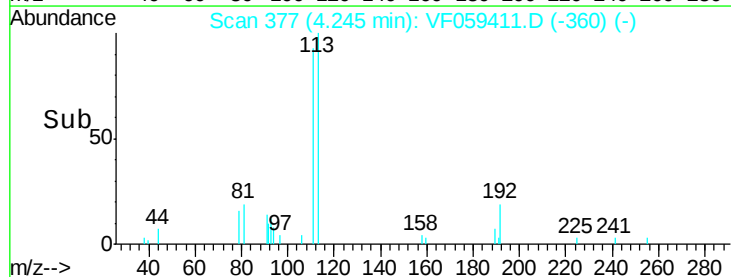
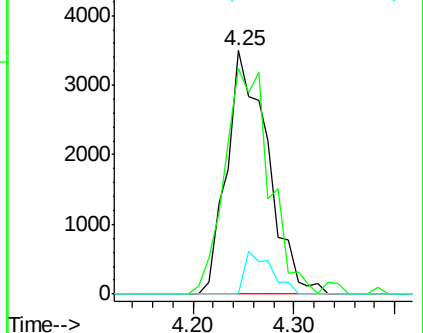
Tgt Ion:	113	Resp:	9824
Ion	Ratio	Lower	Upper
113	100		
111	92.9	82.1	123.1
192	0.0	13.0	19.6#

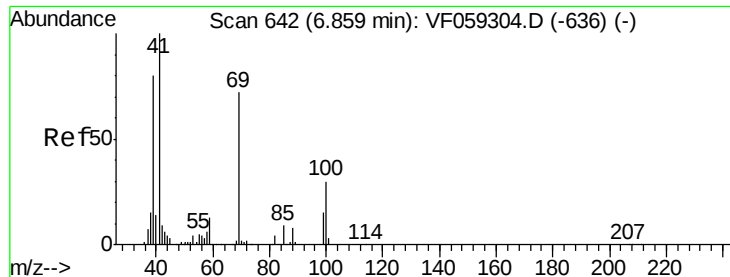


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

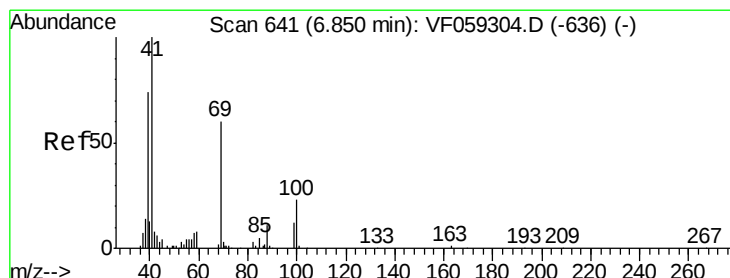
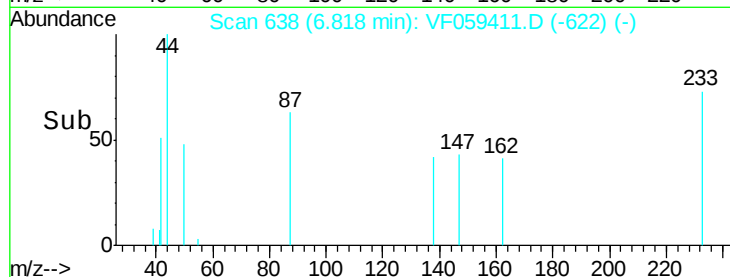
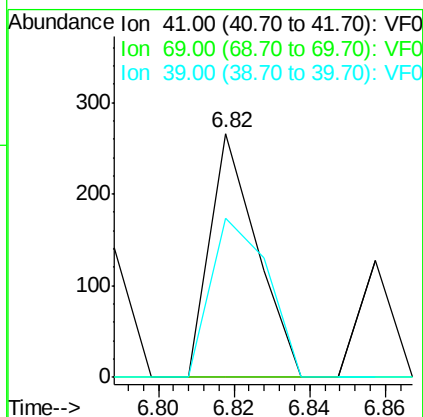
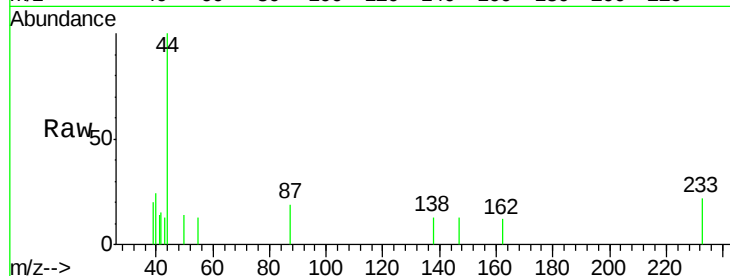




#48
Methyl methacrylate
Concen: 1.337 ug/l
RT: 6.82 min Scan# 638
Delta R.T. -0.04 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

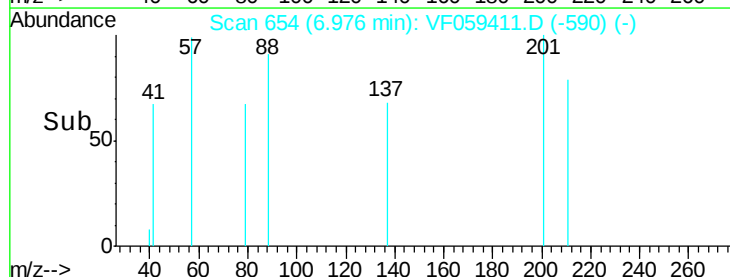
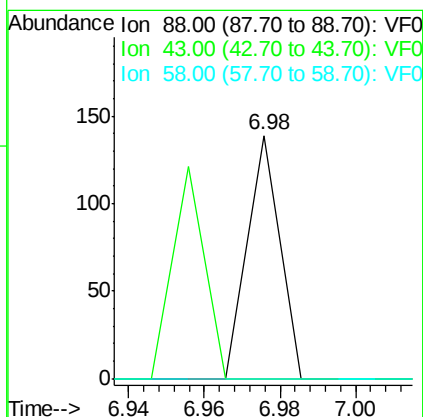
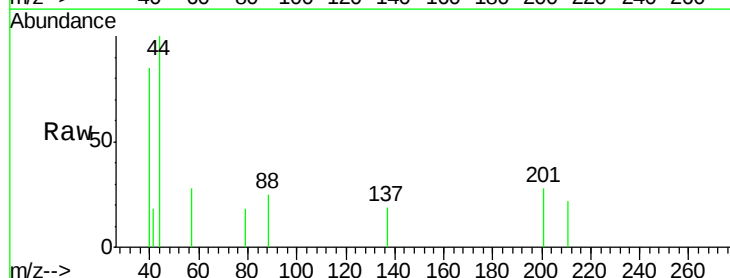
Instrument :
MSVOA_F
ClientSampleId :
SB-6(4-6)RE

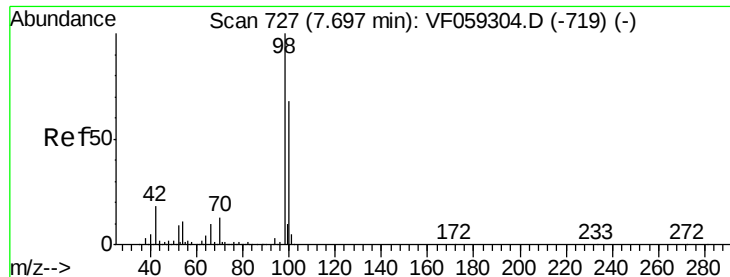
Tgt Ion: 41 Resp: 227
Ion Ratio Lower Upper
41 100
69 0.0 57.3 85.9#
39 65.4 64.4 96.6



#49
1,4-Dioxane
Concen: 50.085 ug/l
RT: 6.98 min Scan# 654
Delta R.T. 0.13 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 88 Resp: 82
Ion Ratio Lower Upper
88 100
43 0.0 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 46.564 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

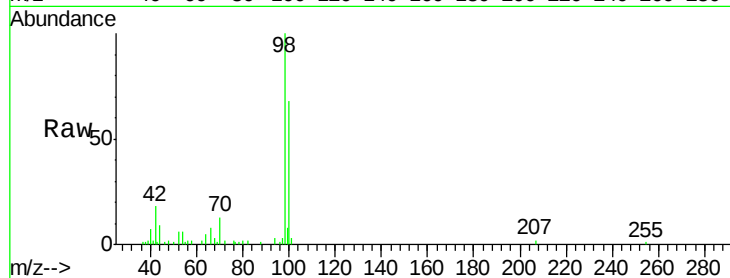
SB-6(4-6)RE

Tgt Ion: 98 Resp: 29332

Ion Ratio Lower Upper

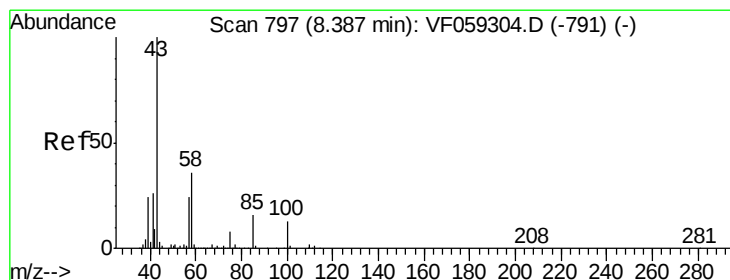
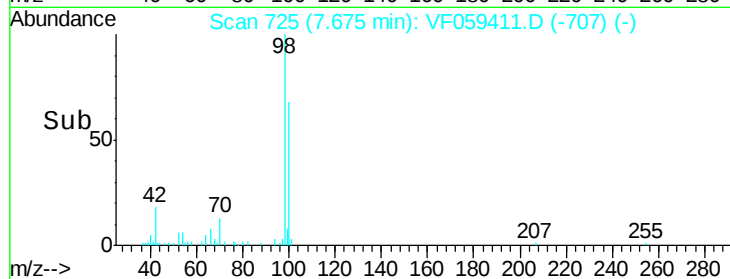
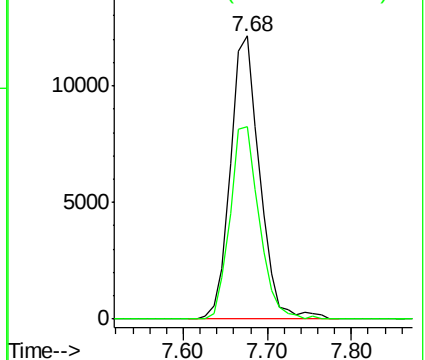
98 100

100 68.1 54.6 82.0



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: 2.078 ug/l

RT: 8.41 min Scan# 800

Delta R.T. 0.03 min

Lab File: VF059411.D

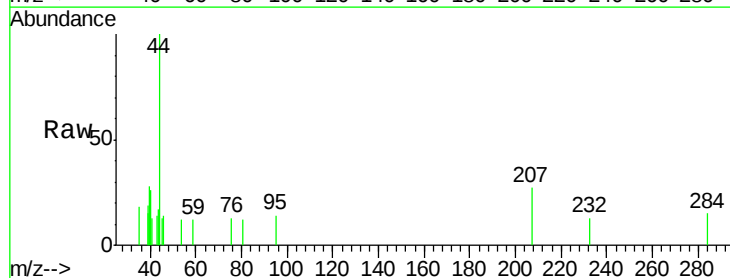
Acq: 3 Jul 2018 14:50

Tgt Ion: 43 Resp: 390

Ion Ratio Lower Upper

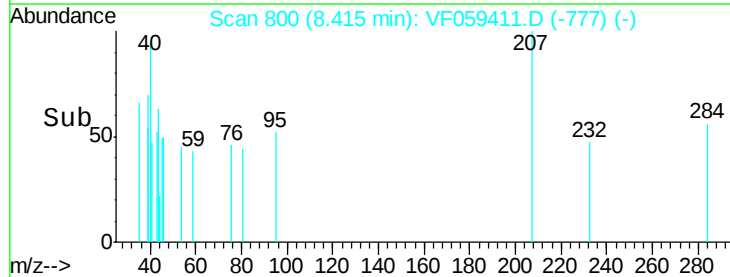
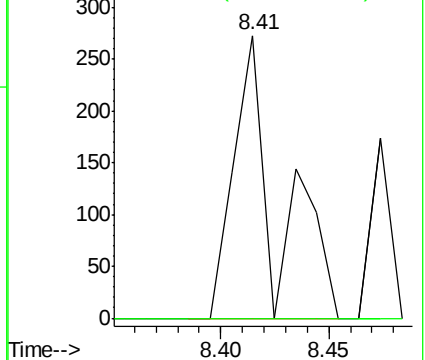
43 100

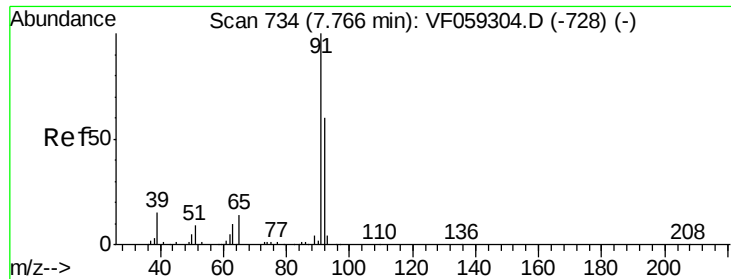
58 0.0 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

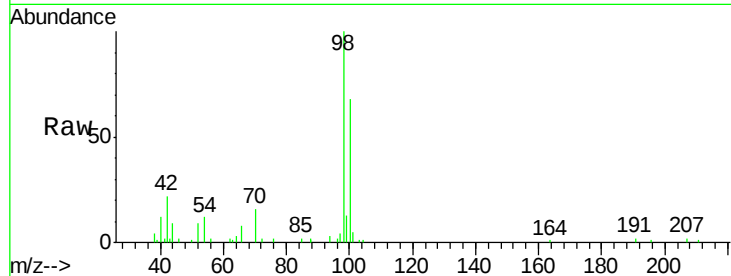




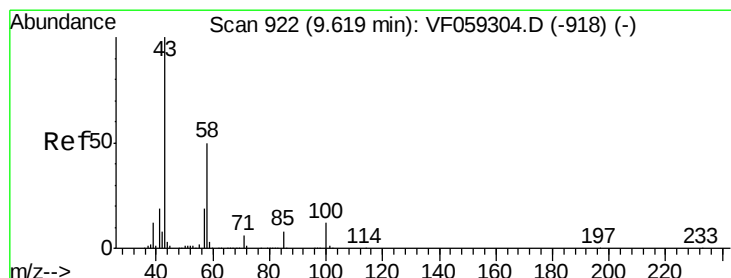
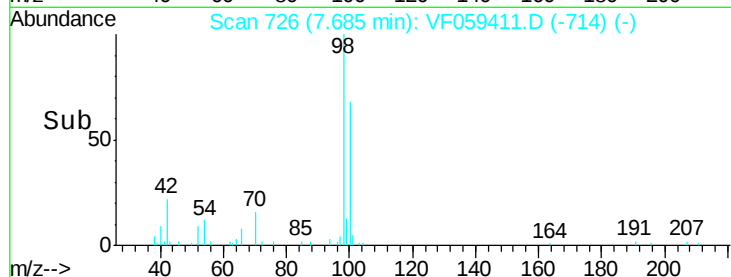
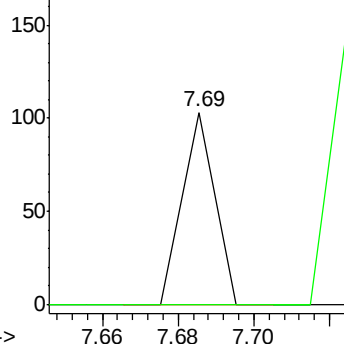
#58
2-Chloroethyl Vinyl ether
Concen: 3.351 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.08 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Instrument :
MSVOA_F
ClientSampled :
SB-6(4-6)RE

Tgt Ion: 63 Resp: 61
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0

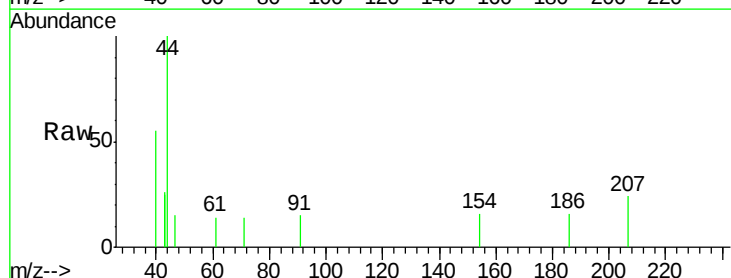


Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 106.00 (105.70 to 106.70): V

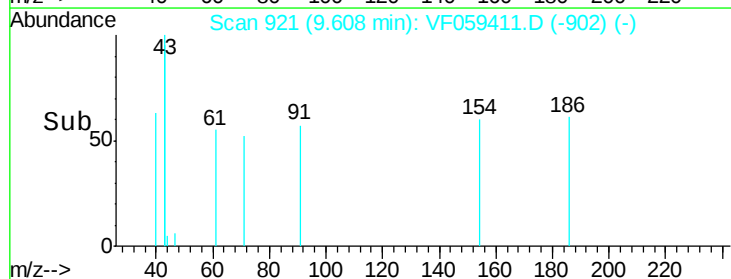
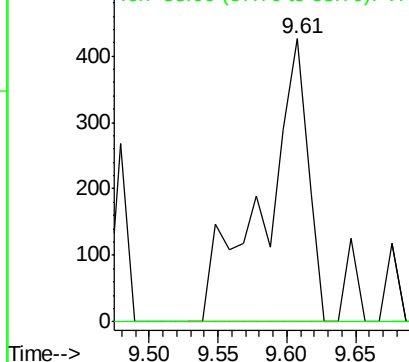


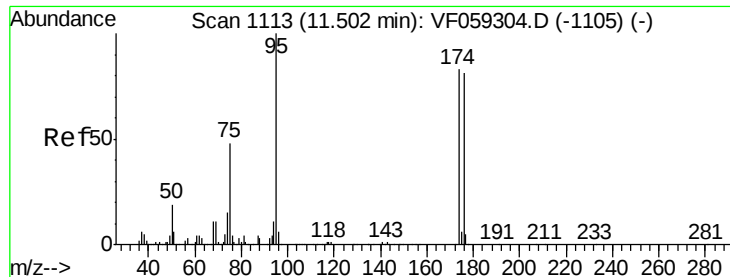
#59
2-Hexanone
Concen: Below Cal
RT: 9.61 min Scan# 921
Delta R.T. -0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion: 43 Resp: 936
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





#62

4-Bromofluorobenzene

Concen: 29.164 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

SB-6(4-6)RE

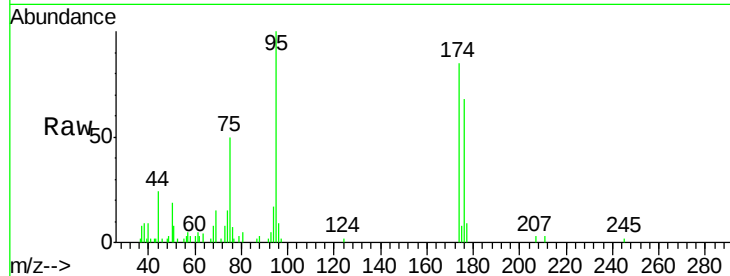
Tgt Ion: 95 Resp: 10363

Ion Ratio Lower Upper

95 100

174 85.3 0.0 165.2

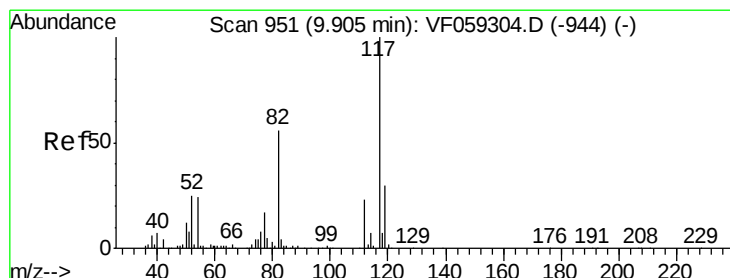
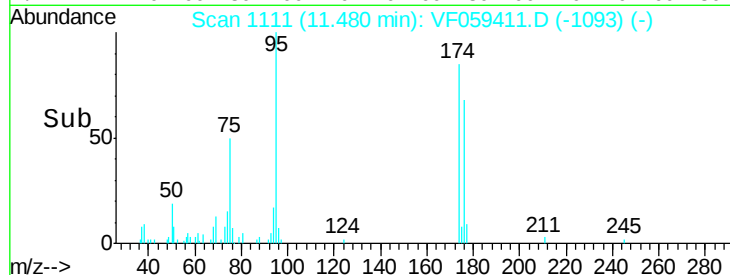
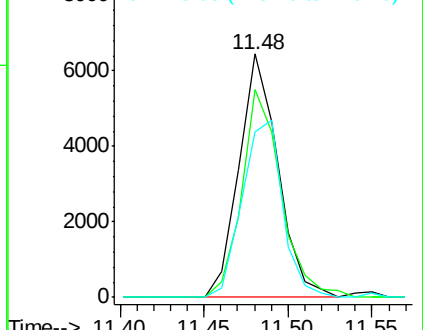
176 68.2 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.88 min Scan# 949

Delta R.T. -0.02 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

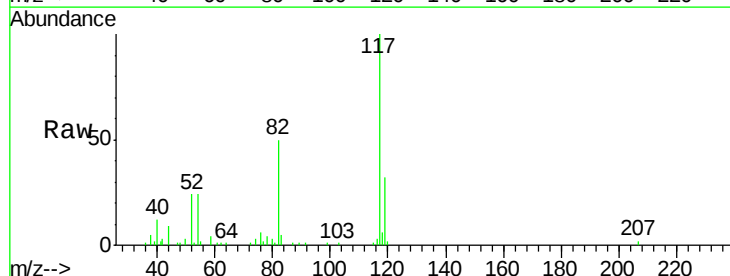
Tgt Ion: 117 Resp: 27473

Ion Ratio Lower Upper

117 100

82 50.4 44.6 66.8

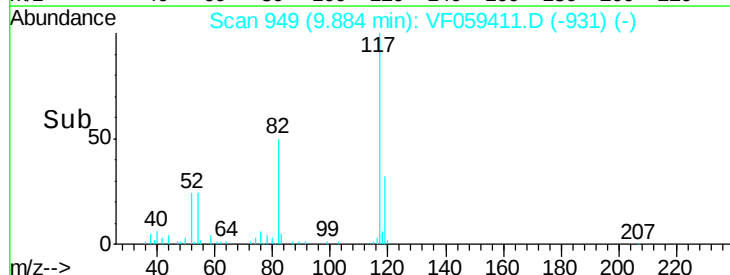
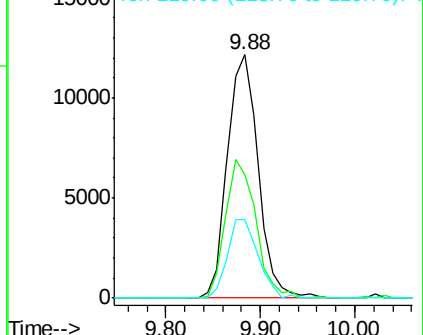
119 32.4 24.1 36.1

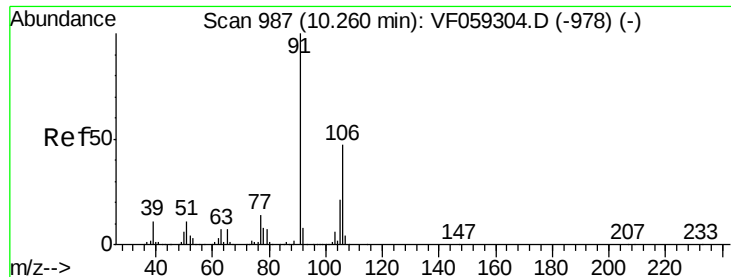


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0

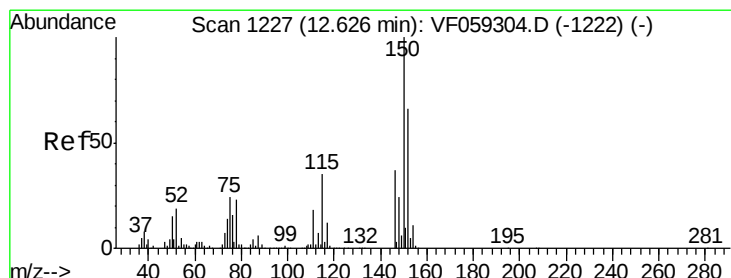
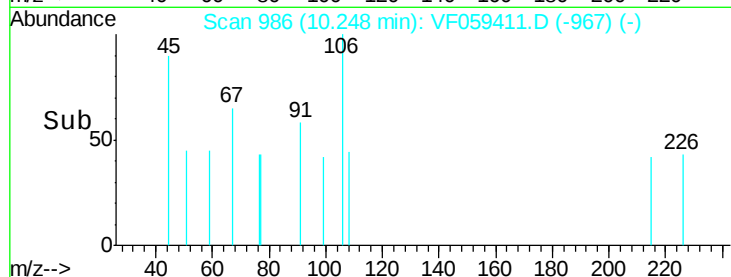
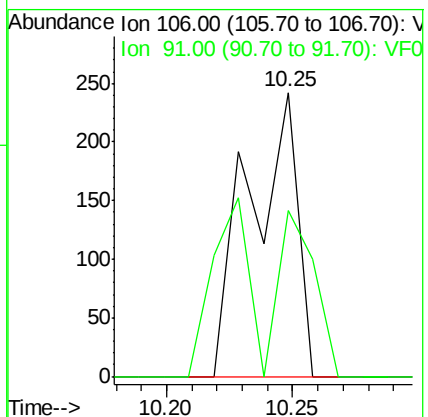
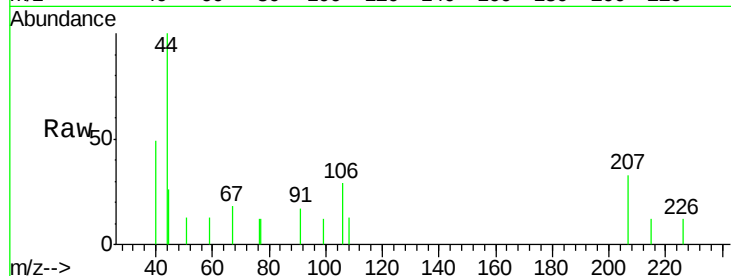




#68
m/p-Xylenes
Concen: 1.051 ug/l
RT: 10.25 min Scan# 986
Delta R.T. -0.01 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

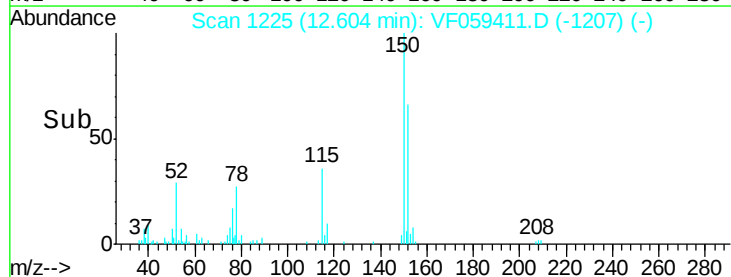
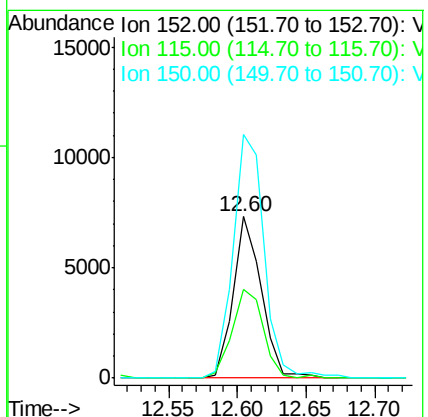
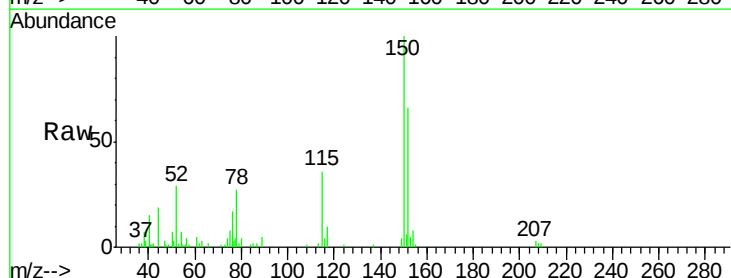
Instrument :
MSVOA_F
ClientSampled :
SB-6(4-6)RE

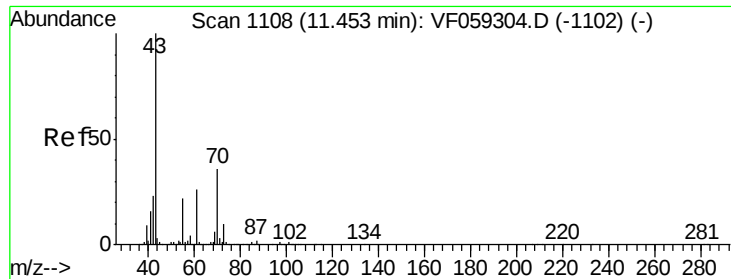
Tgt Ion:106 Resp: 323
Ion Ratio Lower Upper
106 100
91 58.3 170.8 256.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.60 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VF059411.D
Acq: 3 Jul 2018 14:50

Tgt Ion:152 Resp: 10429
Ion Ratio Lower Upper
152 100
115 54.8 27.1 81.3
150 151.1 0.0 305.2





#74

N-ethyl acetate

Concen: 1.601 ug/l

RT: 11.43 min Scan# 1106

Delta R.T. -0.02 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

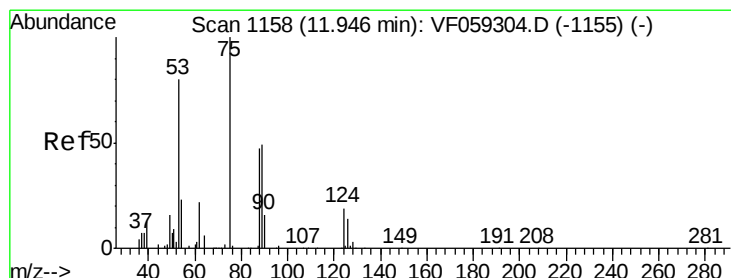
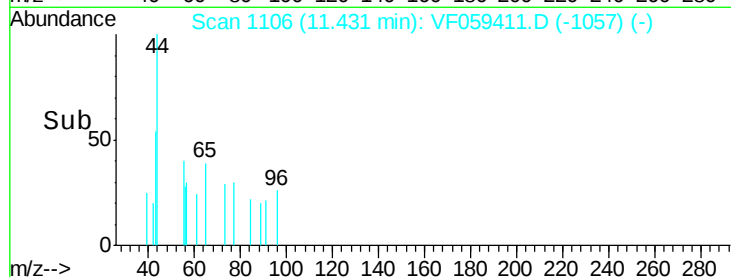
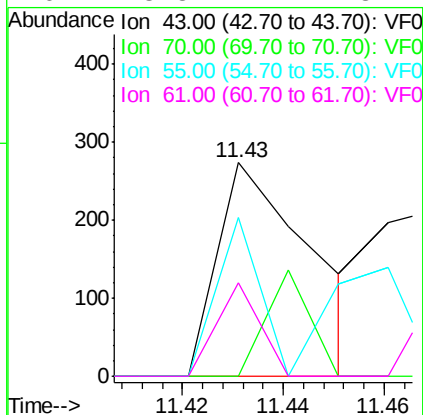
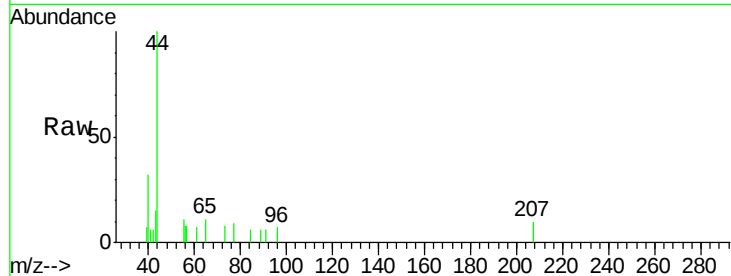
Instrument :

MSVOA_F

ClientSampled :

SB-6(4-6)RE

Tgt Ion:	43	Resp:	353
Ion	Ratio	Lower	Upper
43	100		
70	0.0	28.8	43.2#
55	74.5	17.4	26.0#
61	43.8	21.1	31.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 1.205 ug/l

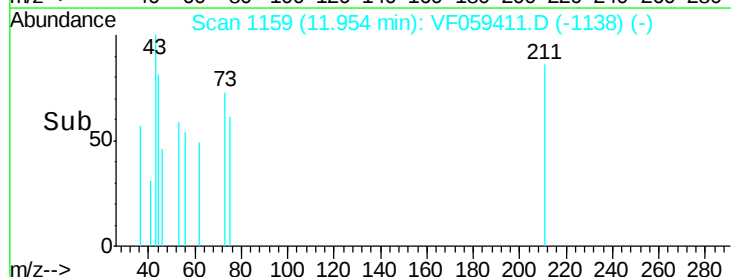
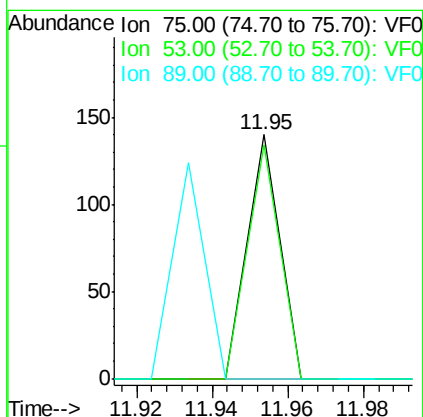
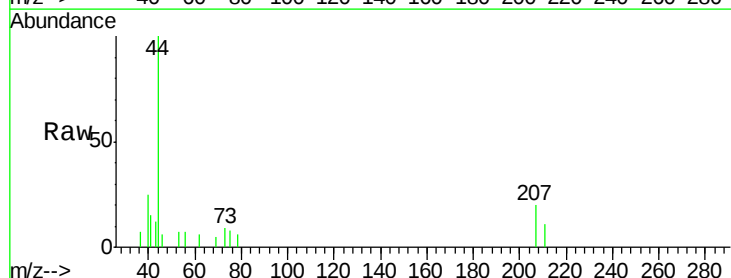
RT: 11.95 min Scan# 1159

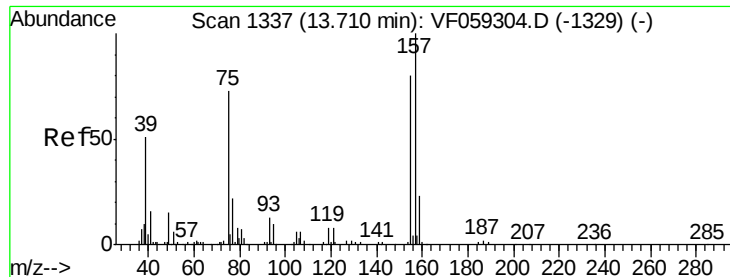
Delta R.T. 0.01 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Tgt Ion:	75	Resp:	83
Ion	Ratio	Lower	Upper
75	100		
53	95.7	68.8	103.2
89	0.0	42.0	63.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.381 ug/l

RT: 13.74 min Scan# 1340

Delta R.T. 0.03 min

Lab File: VF059411.D

Acq: 3 Jul 2018 14:50

Instrument :

MSVOA_F

ClientSampleId :

SB-6(4-6)RE

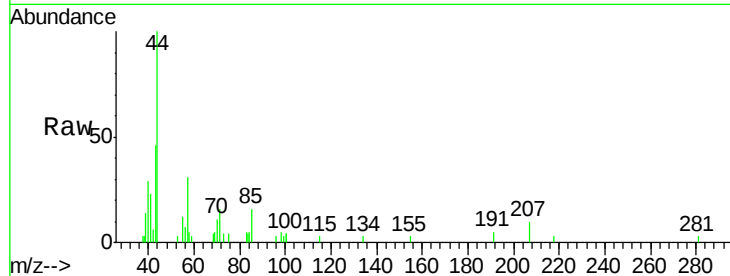
Tgt Ion: 75 Resp: 81

Ion Ratio Lower Upper

75 100

155 78.1 54.6 163.8

157 0.0 68.7 205.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

