

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070518\
 Data File : VF059442.D
 Acq On : 5 Jul 2018 18:59
 Operator : VA/AP
 Sample : J3854-01
 Misc : 2.11g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 06 02:06:16 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	4.92	168	64	50.00	ug/l	-0.11
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-5.76
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	4.86	65	85	102.80	ug/l	-0.15
Spiked Amount	50.000		Recovery	=	205.60%	
35) Dibromofluoromethane	4.25	113	60	0.00	ug/l	-0.03
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	0.00	95	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

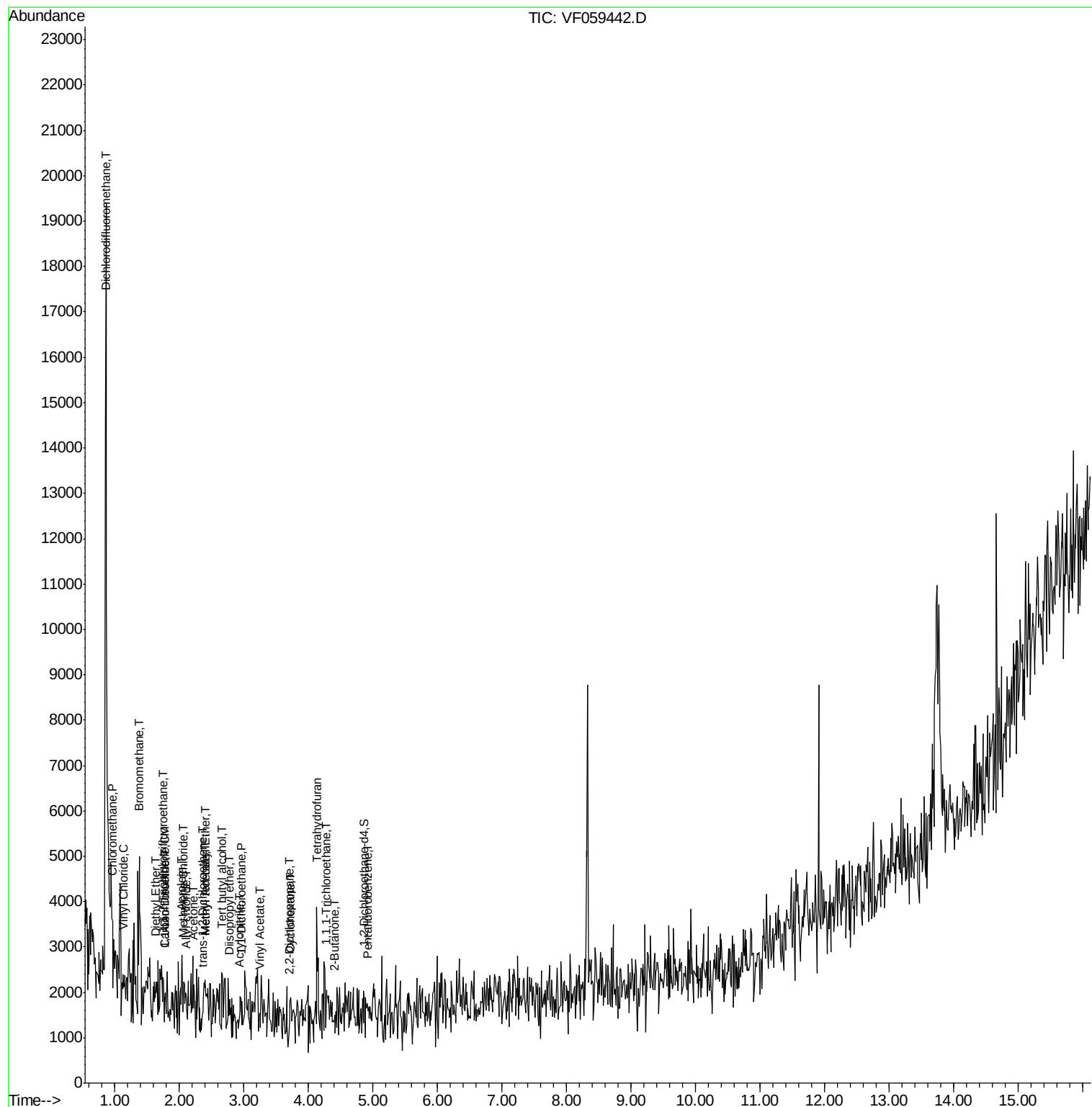
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.88	85	66	112.872	ug/l #	40
3) Chloromethane	0.98	50	85	216.379	ug/l #	41
4) Vinyl Chloride	1.14	62	63	162.929	ug/l #	42
5) Bromomethane	1.37	94	205	573.055	ug/l #	4
8) Diethyl Ether	1.64	74	64	326.439	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.74	101	81	181.481	ug/l #	18
11) Tert butyl alcohol	2.66	59	178	3233.555	ug/l #	66
12) 1,1-Dichloroethene	1.78	96	124	328.634	ug/l #	1
13) Acrolein	2.03	56	96	3943.002	ug/l #	10
14) Allyl chloride	2.11	41	66	93.182	ug/l #	37
15) Acrylonitrile	2.93	53	60	618.951	ug/l #	9
16) Acetone	2.23	43	203	1014.187	ug/l #	65
17) Carbon Disulfide	1.79	76	61	68.727	ug/l #	71
18) Methyl Acetate	2.41	43	727	1993.195	ug/l #	61
19) Methyl tert-butyl Ether	2.40	73	92	65.369	ug/l #	63
20) Methylene Chloride	2.07	84	85	206.419	ug/l #	1
21) trans-1,2-Dichloroethene	2.36	96	62	154.037	ug/l #	1
22) Diisopropyl ether	2.79	45	83	52.918	ug/l #	37
23) Vinyl Acetate	3.23	43	63	63.070	ug/l #	79
24) 1,1-Dichloroethane	2.97	63	139	142.936	ug/l #	90
25) 2-Butanone	4.40	43	61	243.798	ug/l #	59
26) 2,2-Dichloropropane	3.70	77	157	234.073	ug/l #	62
29) Tetrahydrofuran	4.13	42	94	907.141	ug/l #	36
31) Cyclohexane	3.73	56	74	116.160	ug/l #	4
32) 1,1,1-Trichloroethane	4.29	97	63	61.152	ug/l #	21

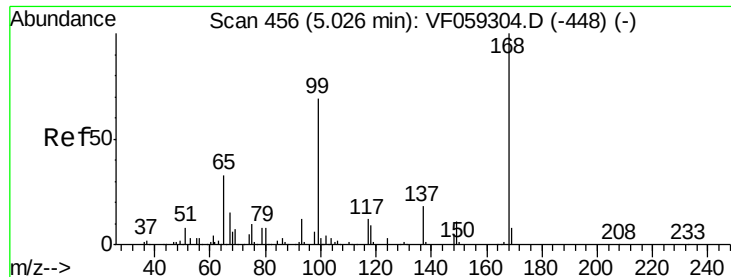
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.11 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Instrument :

MSVOA_F

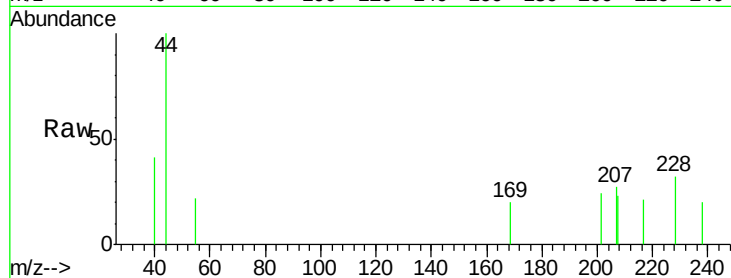
ClientSampleId :

Tot Ion:168 Resp: 64

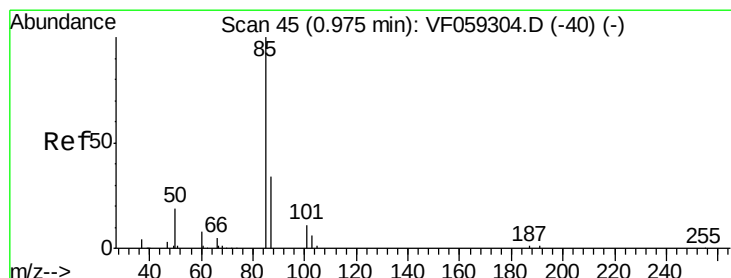
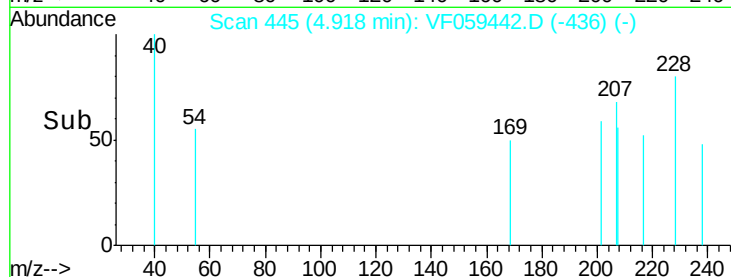
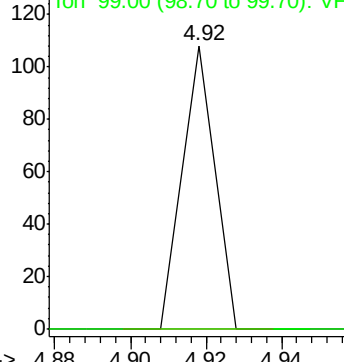
Ion Ratio Lower Upper

168 100

99 0.0 54.9 82.3#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 112.872 ug/l

RT: 0.88 min Scan# 35

Delta R.T. -0.10 min

Lab File: VF059442.D

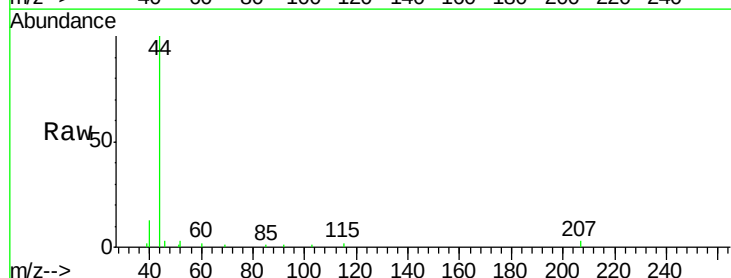
Acq: 5 Jul 2018 18:59

Tgt Ion: 85 Resp: 66

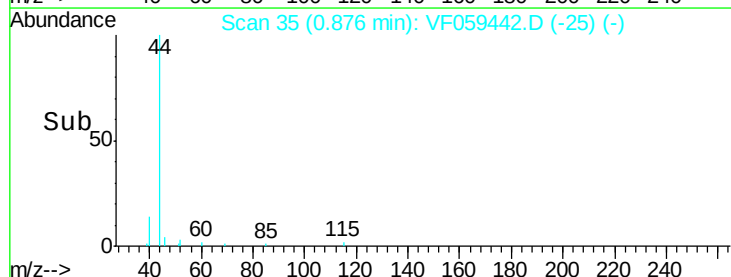
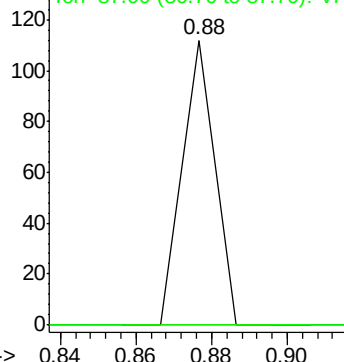
Ion Ratio Lower Upper

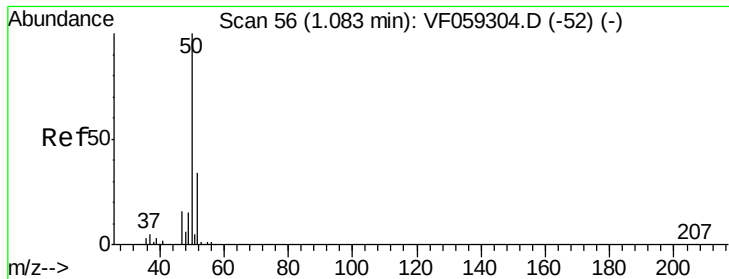
85 100

87 0.0 17.1 51.3#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 216.379 ug/l

RT: 0.98 min Scan# 45

Delta R.T. -0.11 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

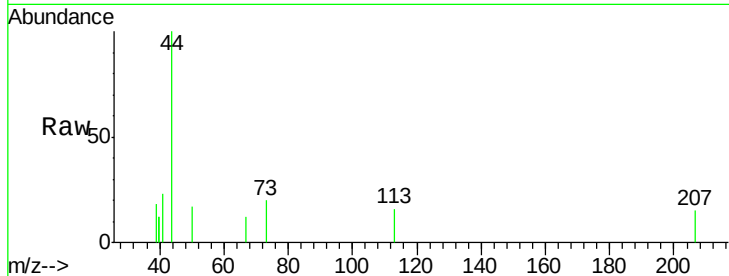
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 85

Ion Ratio Lower Upper

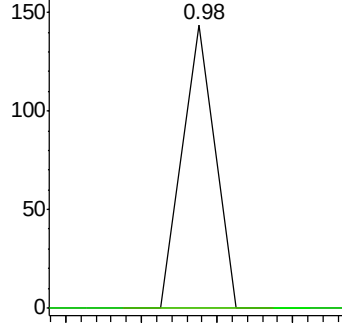
50 100

52 0.0 26.7 40.1#

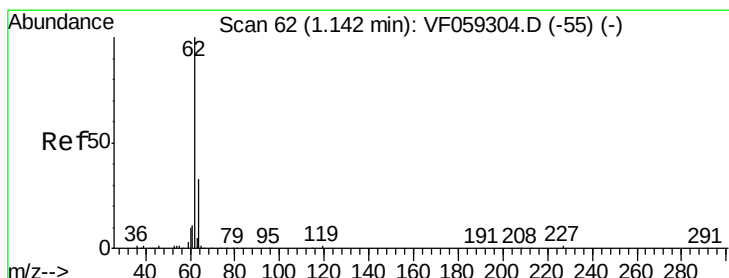
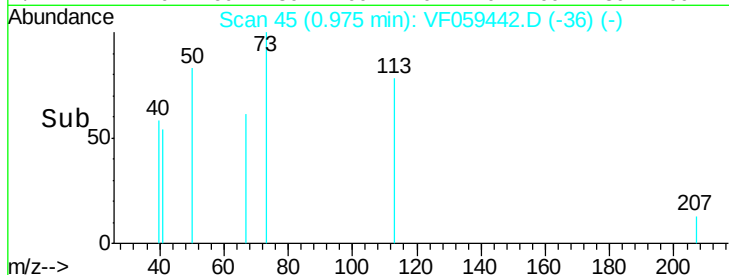


Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



Time-->



#4

Vinyl Chloride

Concen: 162.929 ug/l

RT: 1.14 min Scan# 62

Delta R.T. 0.00 min

Lab File: VF059442.D

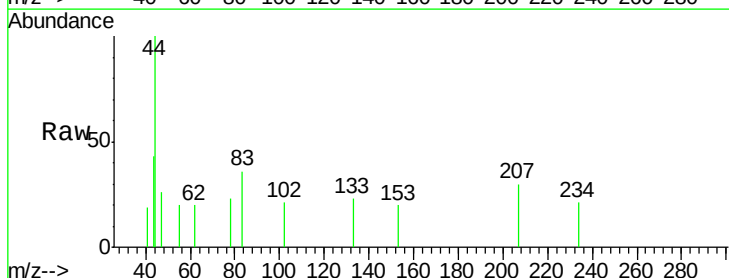
Acq: 5 Jul 2018 18:59

Tgt Ion: 62 Resp: 63

Ion Ratio Lower Upper

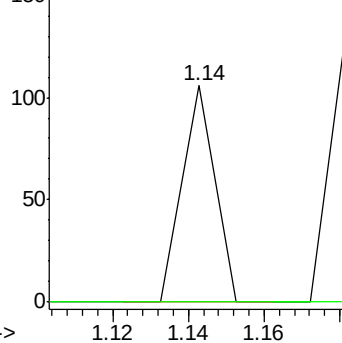
62 100

64 0.0 26.3 39.5#

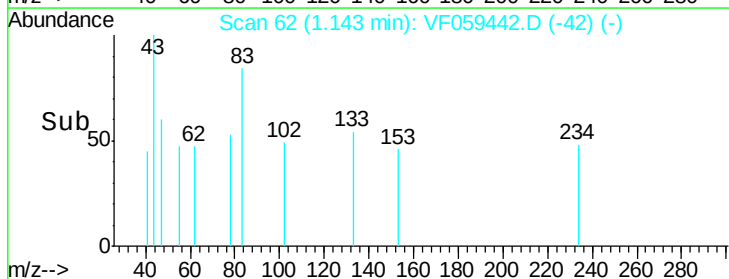


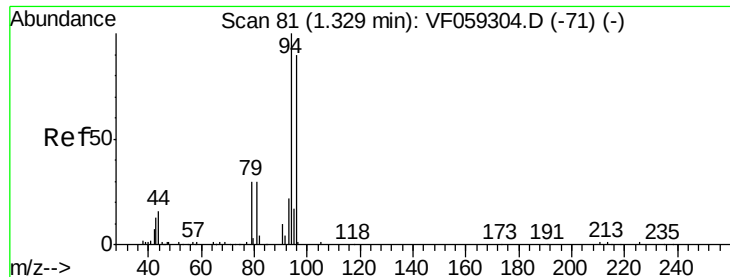
Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



Time-->





#5

Bromomethane

Concen: 573.055 ug/l

RT: 1.37 min Scan# 85

Delta R.T. 0.04 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Instrument :

MSVOA_F

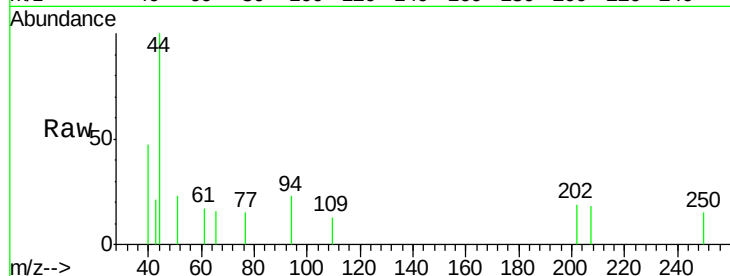
ClientSampled :

Tot Ion: 94 Resp: 205

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.0#

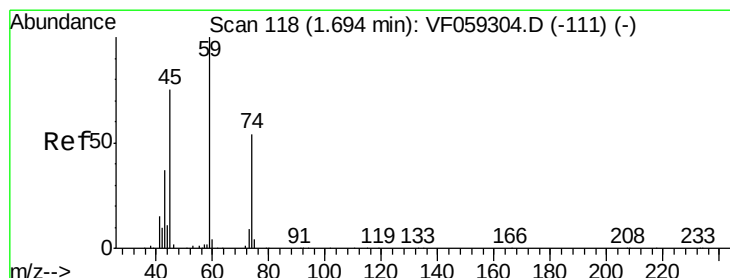
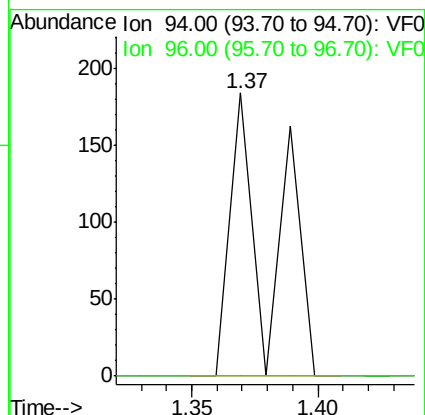
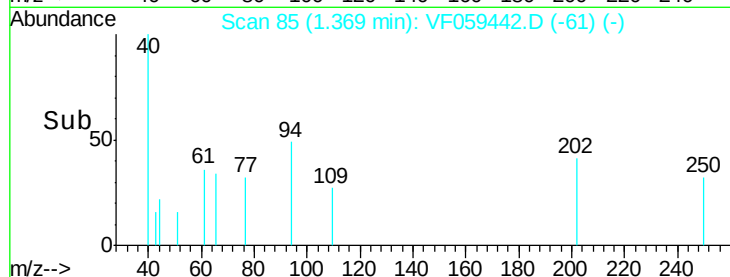


Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.37

1.40



#8

Diethyl Ether

Concen: 326.439 ug/l

RT: 1.64 min Scan# 112

Delta R.T. -0.06 min

Lab File: VF059442.D

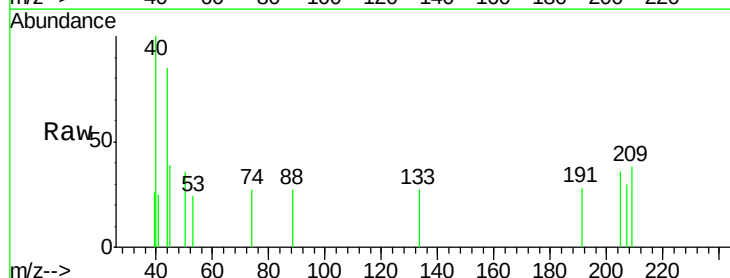
Acq: 5 Jul 2018 18:59

Tgt Ion: 74 Resp: 64

Ion Ratio Lower Upper

74 100

45 145.0 70.0 210.0

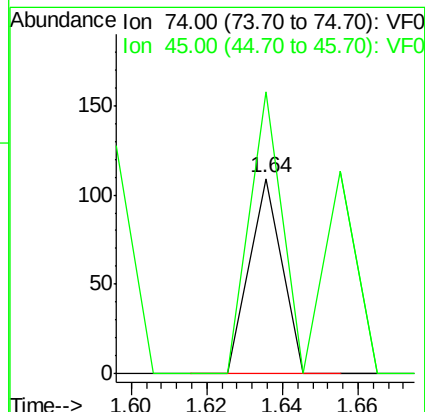
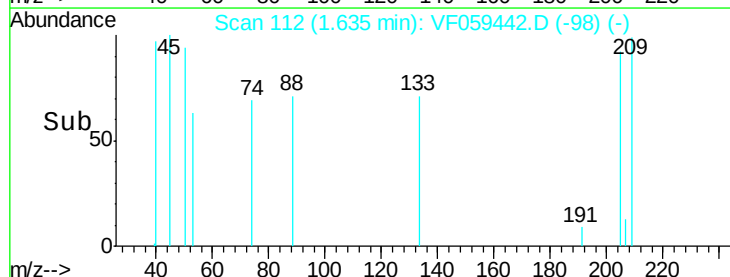


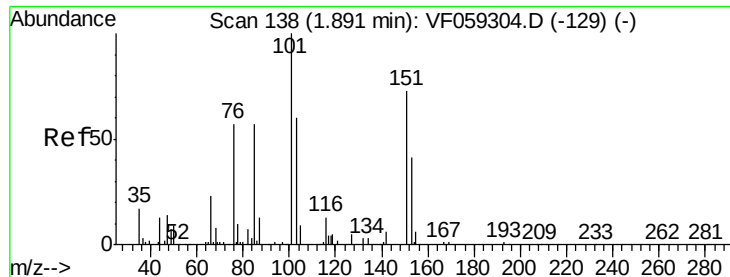
Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.64

1.66





#9

1,1,2-Trichlorotrifluoroethane

Concen: 181.481 ug/l

RT: 1.74 min Scan# 123

Delta R.T. -0.15 min

Lab File: VF059442.D

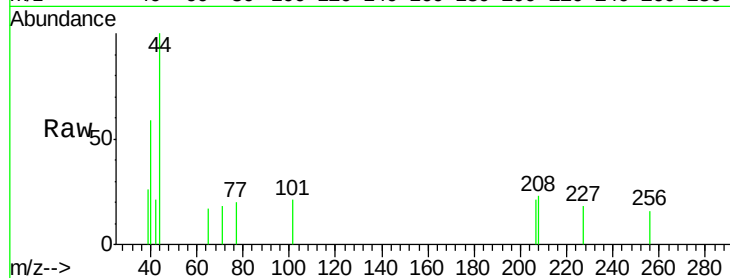
Acq: 5 Jul 2018 18:59

Instrument :

MSVOA_F

ClientSampleId :

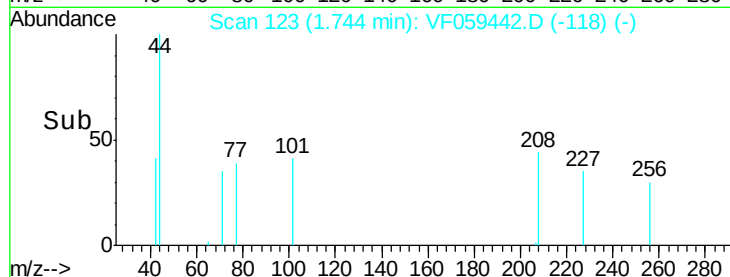
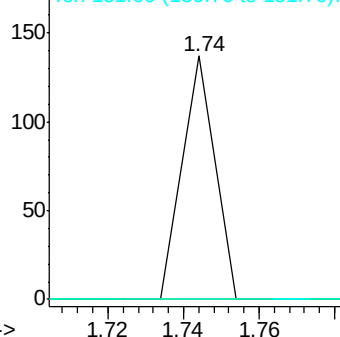
Tot Ion:	101	Resp:	81
Ion	Ratio	Lower	Upper
101	100		
85	0.0	44.5	66.7#
151	0.0	56.8	85.2#



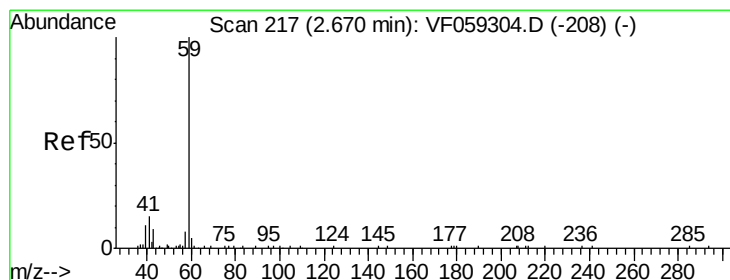
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



Time-->



#11

Tert butyl alcohol

Concen: 3233.555 ug/l

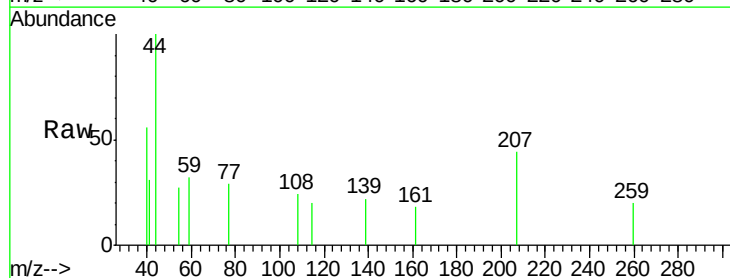
RT: 2.66 min Scan# 216

Delta R.T. -0.01 min

Lab File: VF059442.D

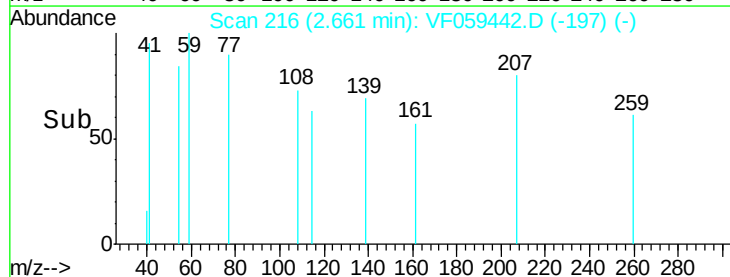
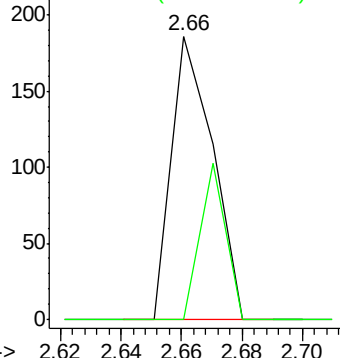
Acq: 5 Jul 2018 18:59

Tgt Ion:	59	Resp:	178
Ion	Ratio	Lower	Upper
59	100		
57	0.0	11.0	16.4#

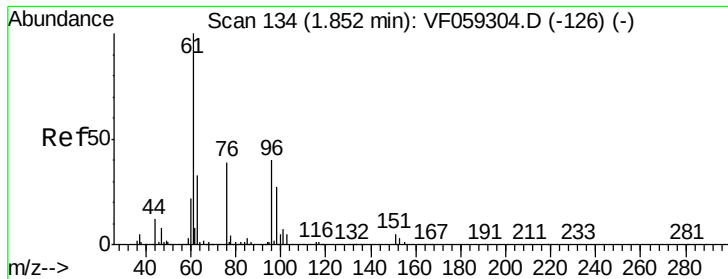


Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



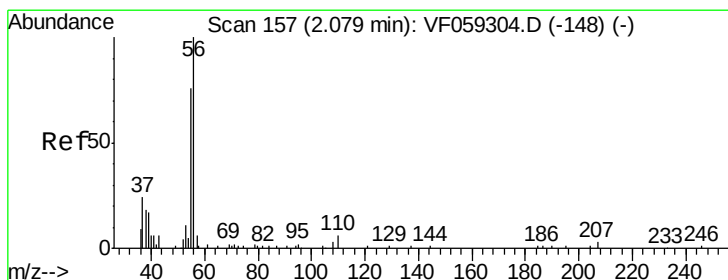
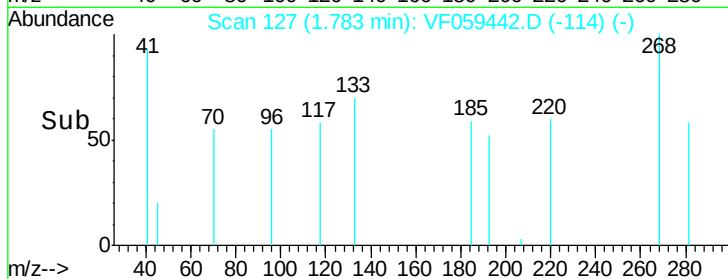
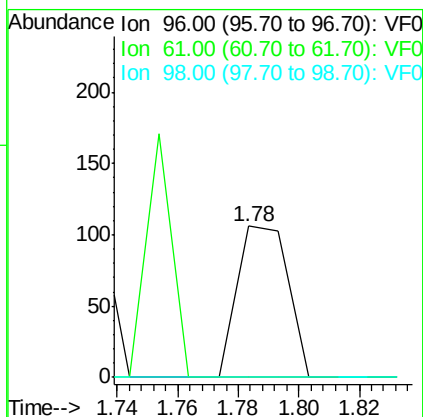
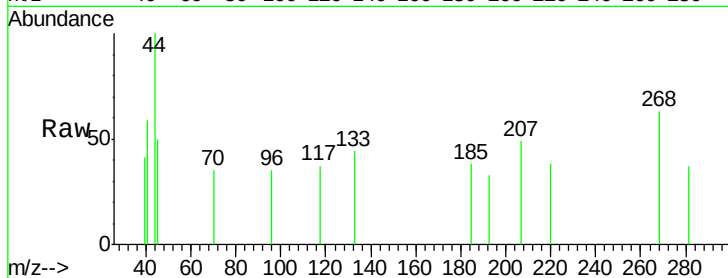
Time-->



#12
 1,1-Dichloroethene
 Concen: 328.634 ug/l
 RT: 1.78 min Scan# 127
 Delta R.T. -0.07 min
 Lab File: VF059442.D
 Acq: 5 Jul 2018 18:59

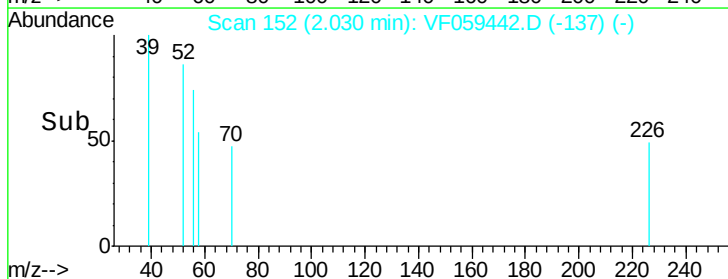
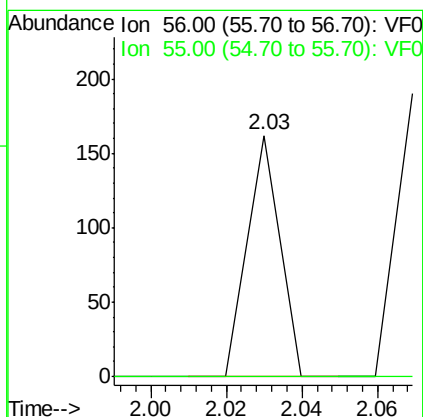
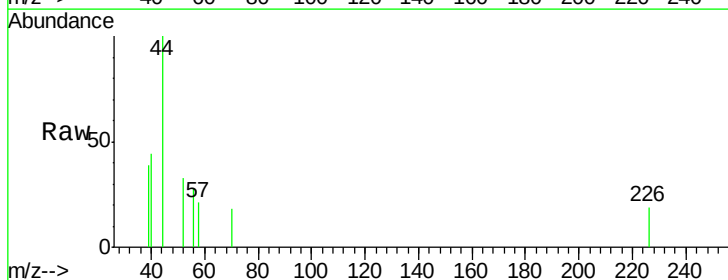
Instrument :
 MSVOA_F
 ClientSampled :

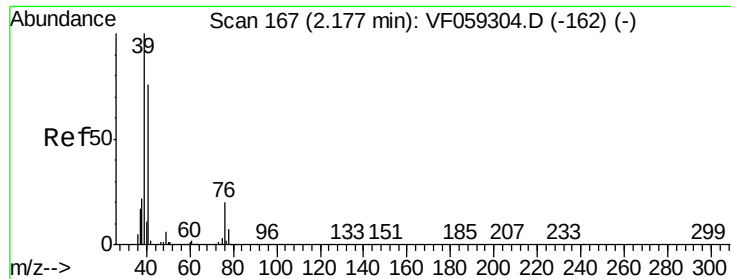
Tot Ion: 96 Resp: 124
 Ion Ratio Lower Upper
 96 100
 61 0.0 201.1 301.7#
 98 0.0 53.9 80.9#



#13
 Acrolein
 Concen: 3943.002 ug/l
 RT: 2.03 min Scan# 152
 Delta R.T. -0.05 min
 Lab File: VF059442.D
 Acq: 5 Jul 2018 18:59

Tgt Ion: 56 Resp: 96
 Ion Ratio Lower Upper
 56 100
 55 0.0 62.4 93.6#

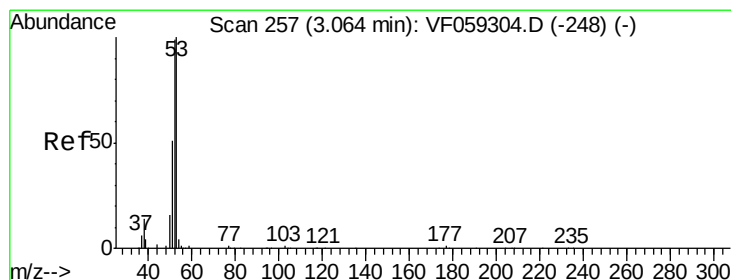
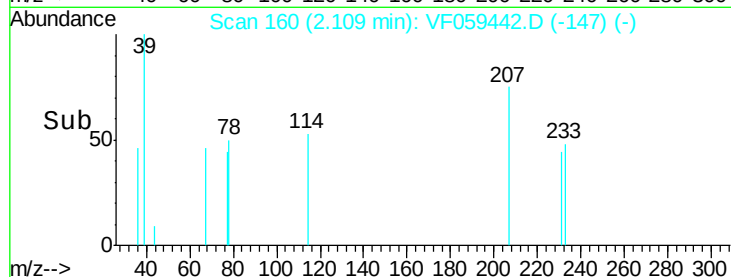
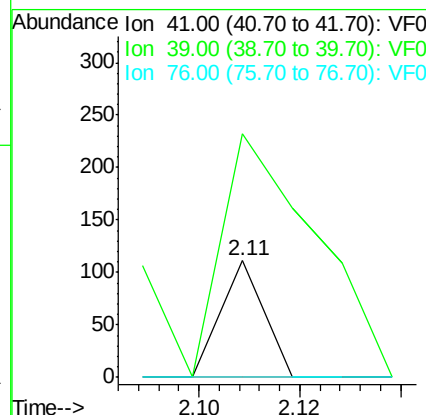
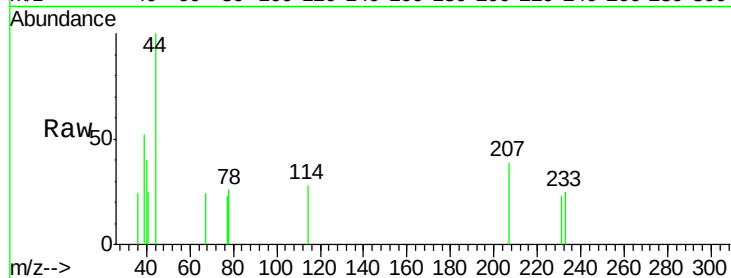




#14
Allvl chloride
Concen: 93.182 ug/l
RT: 2.11 min Scan# 160
Delta R.T. -0.07 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

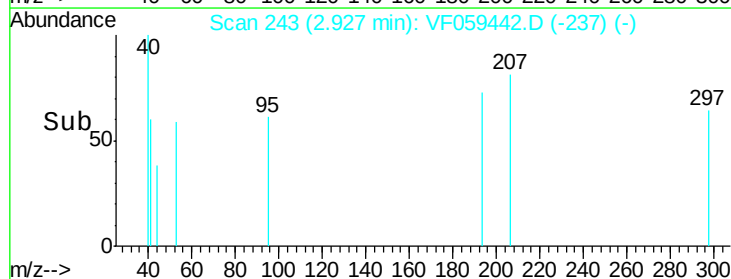
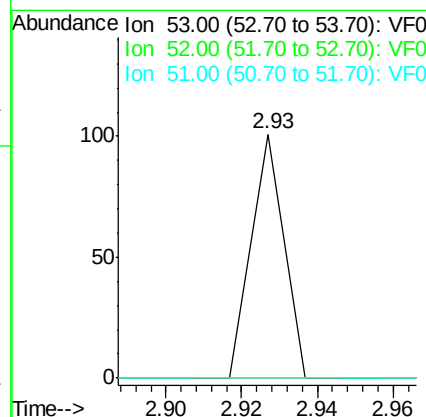
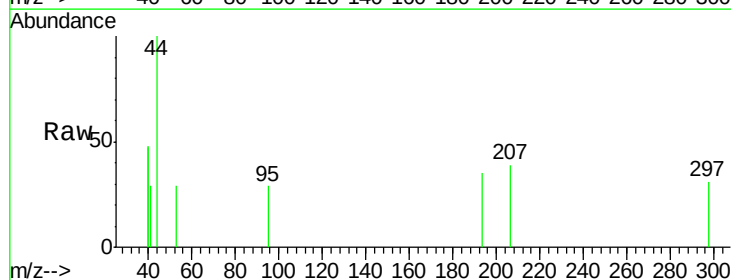
Instrument :
MSVOA_F
ClientSampled :

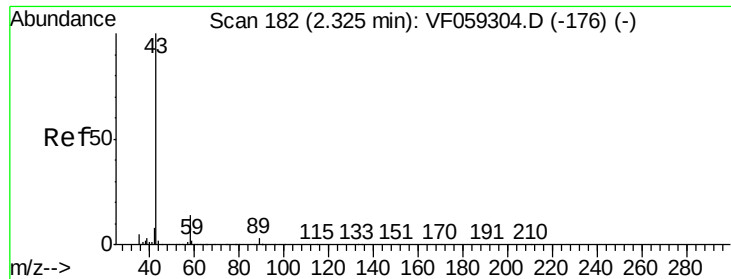
Tot Ion: 41 Resp: 66
Ion Ratio Lower Upper
41 100
39 209.0 105.6 158.4#
76 0.0 21.6 32.4#



#15
Acrylonitrile
Concen: 618.951 ug/l
RT: 2.93 min Scan# 243
Delta R.T. -0.14 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

Tgt Ion: 53 Resp: 60
Ion Ratio Lower Upper
53 100
52 0.0 79.2 118.8#
51 0.0 40.9 61.3#

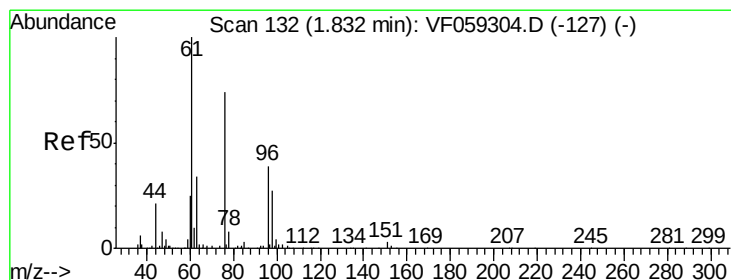
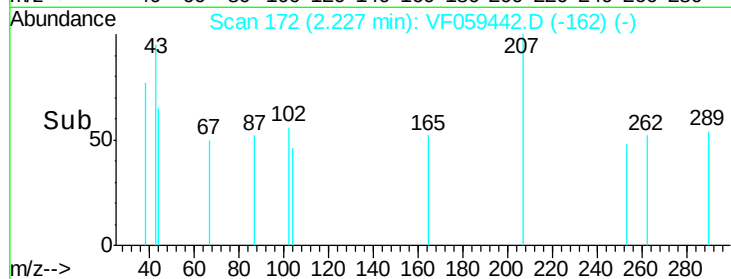
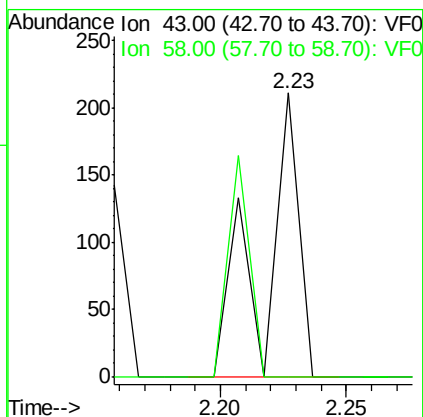
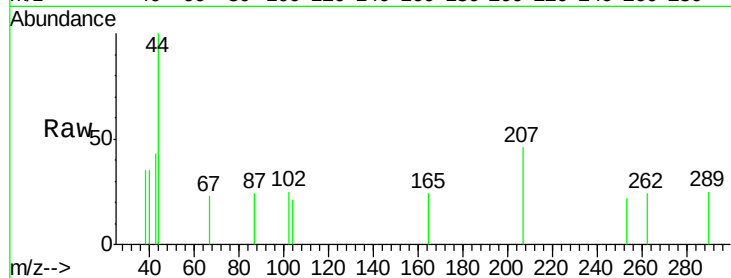




#16
Acetone
Concen: 1014.187 ug/l
RT: 2.23 min Scan# 172
Delta R.T. -0.10 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

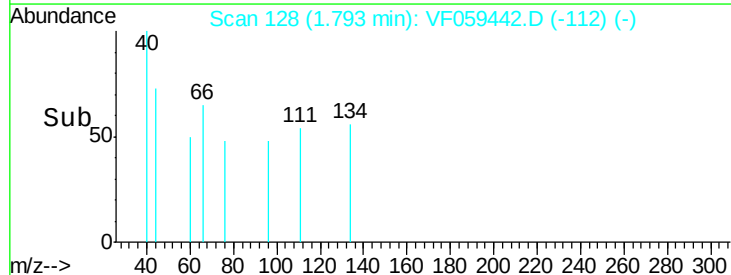
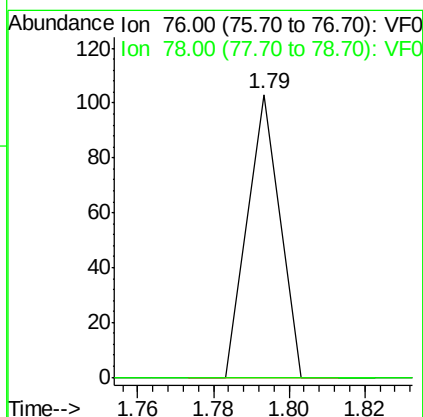
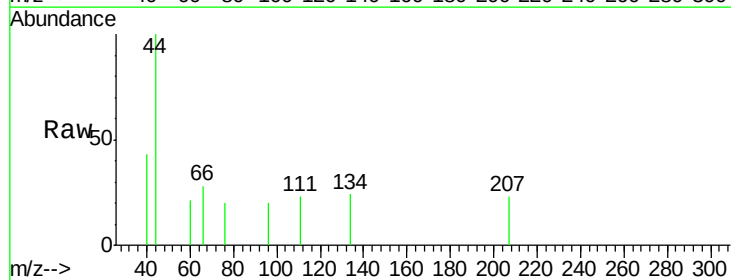
Instrument :
MSVOA_F
ClientSampleId :

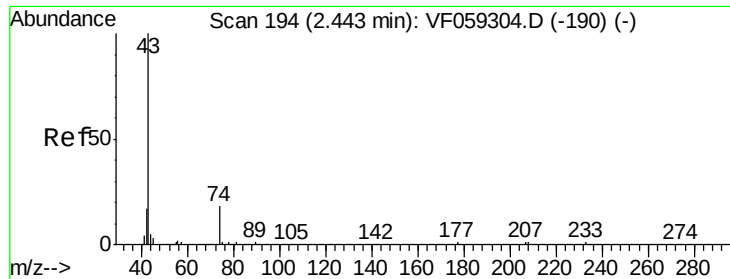
Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
58 0.0 11.4 17.0#



#17
Carbon Disulfide
Concen: 68.727 ug/l
RT: 1.79 min Scan# 128
Delta R.T. -0.04 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

Tgt Ion: 76 Resp: 61
Ion Ratio Lower Upper
76 100
78 0.0 8.9 13.3#

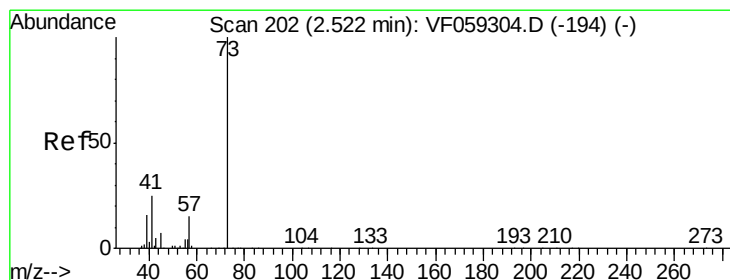
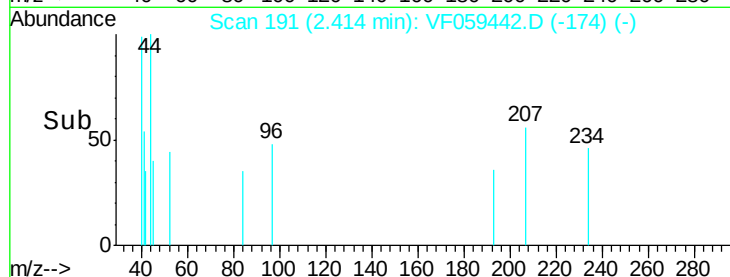
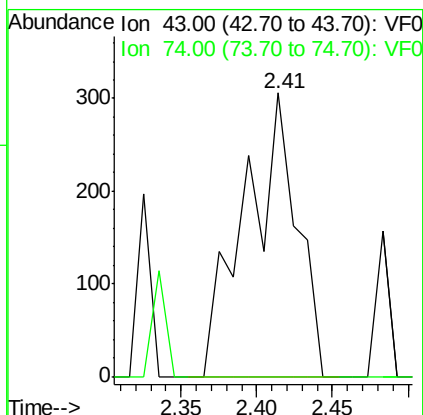
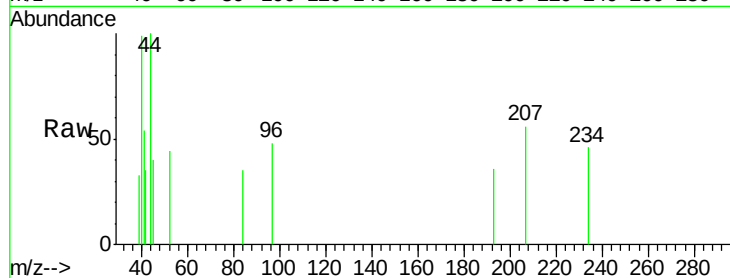




#18
Methvl Acetate
Concen: 1993.195 ug/l
RT: 2.41 min Scan# 191
Delta R.T. -0.03 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

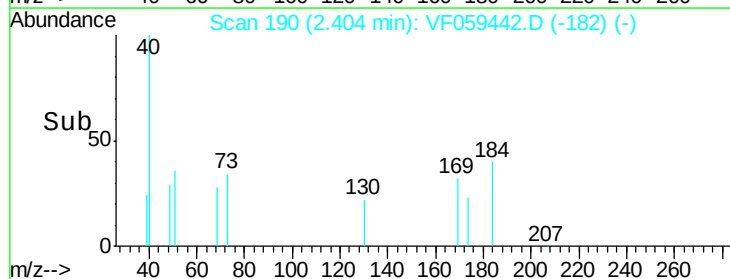
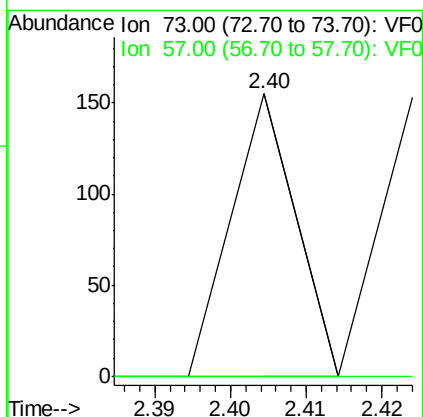
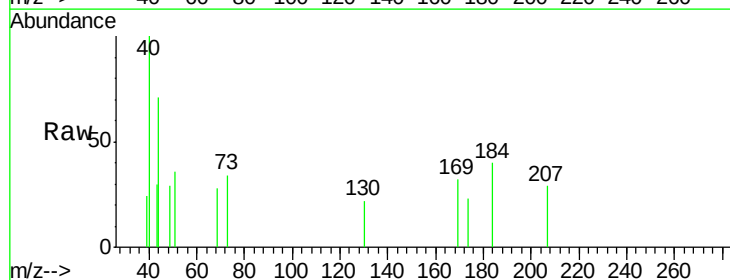
Instrument :
MSVOA_F
ClientSampled :

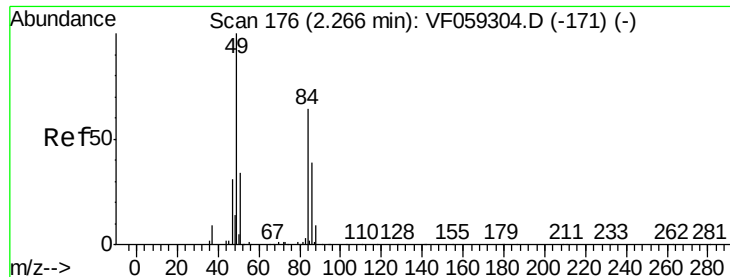
Tot Ion: 43 Resp: 727
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



#19
Methyl tert-butyl Ether
Concen: 65.369 ug/l
RT: 2.40 min Scan# 190
Delta R.T. -0.12 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

Tgt Ion: 73 Resp: 92
Ion Ratio Lower Upper
73 100
57 0.0 12.3 18.5#

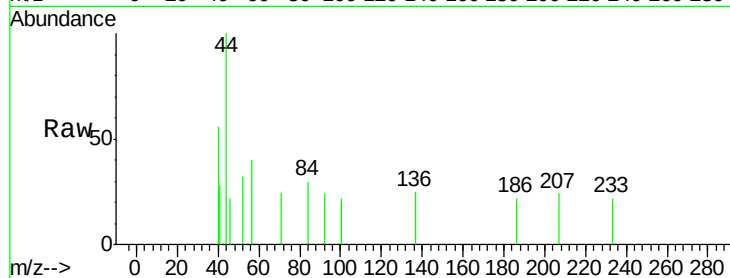




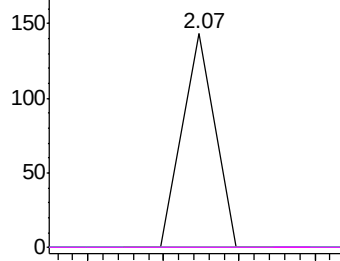
#20
Methvlene Chloride
Concen: 206.419 ug/l
RT: 2.07 min Scan# 156
Delta R.T. -0.20 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

Instrument :
MSVOA_F
ClientSampleId :

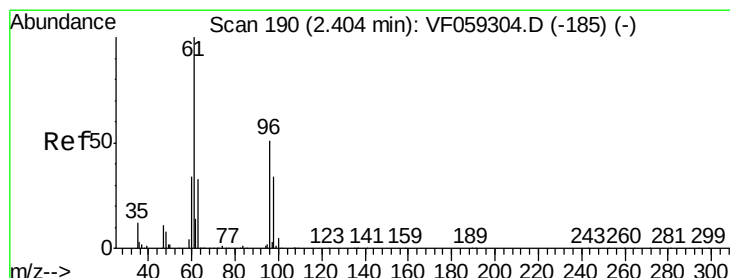
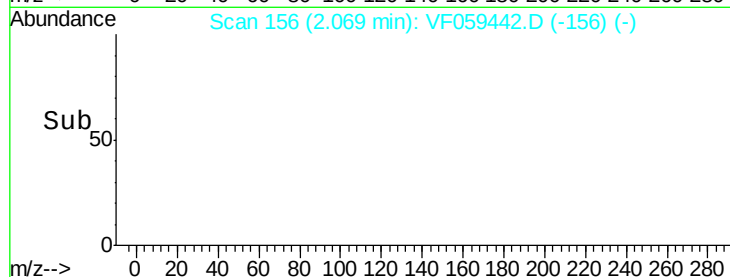
Tot Ion:	84	Resp:	85
Ion	Ratio	Lower	Upper
84	100		
49	0.0	126.5	189.7#
51	0.0	42.9	64.3#
86	0.0	48.6	73.0#



Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

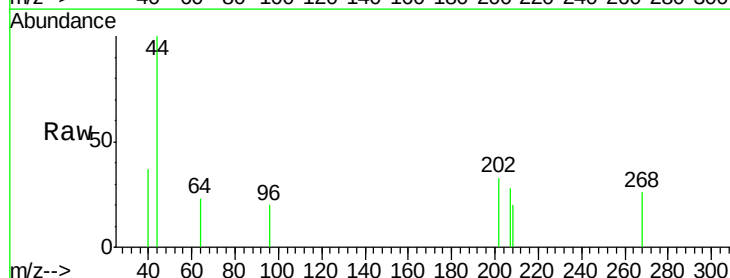


Time-->

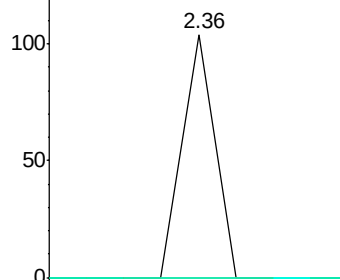


#21
trans-1,2-Dichloroethene
Concen: 154.037 ug/l
RT: 2.36 min Scan# 185
Delta R.T. -0.05 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

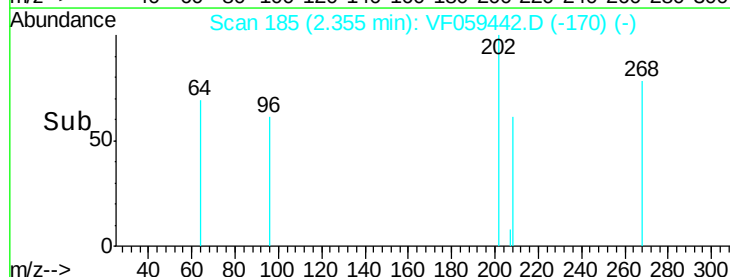
Tgt Ion:	96	Resp:	62
Ion	Ratio	Lower	Upper
96	100		
61	0.0	157.4	236.2#
98	0.0	53.7	80.5#

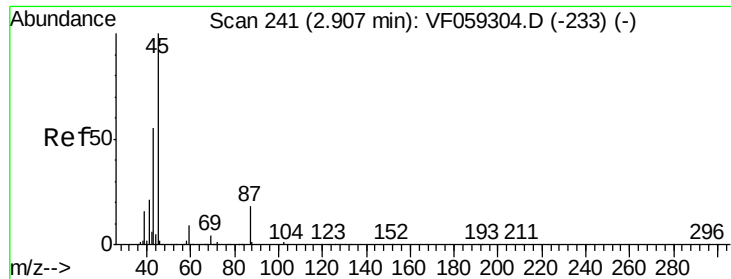


Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



Time-->





#22

Diisopropyl ether

Concen: 52.918 ug/l

RT: 2.79 min Scan# 229

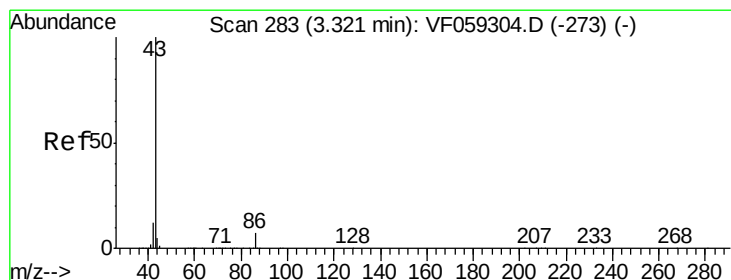
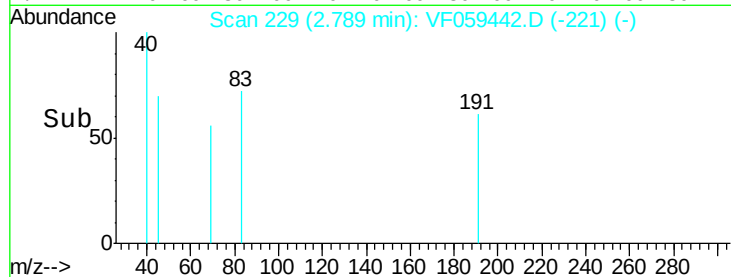
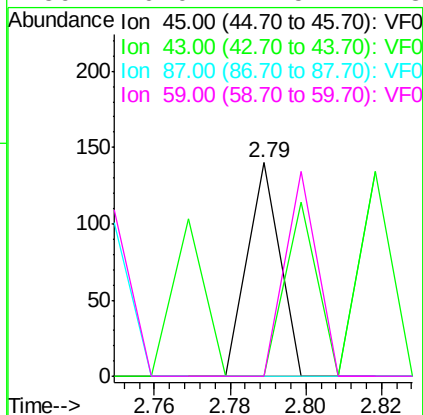
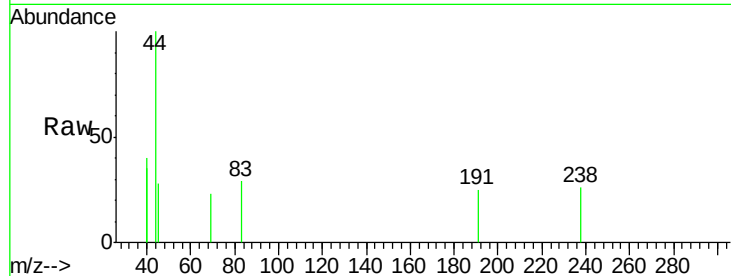
Delta R.T. -0.12 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	45	Resp:	83
Ion	Ratio	Lower	Upper
45	100		
43	0.0	44.6	66.8#
87	0.0	14.3	21.5#
59	0.0	7.5	11.3#



#23

Vinyl Acetate

Concen: 63.070 ug/l

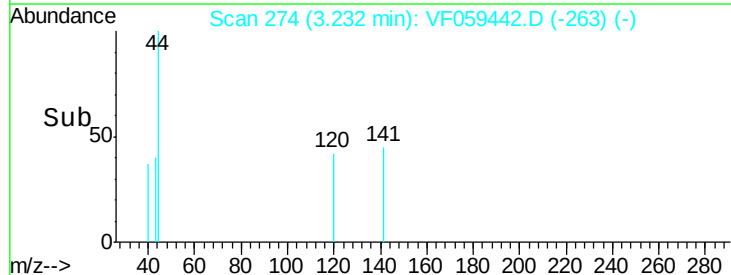
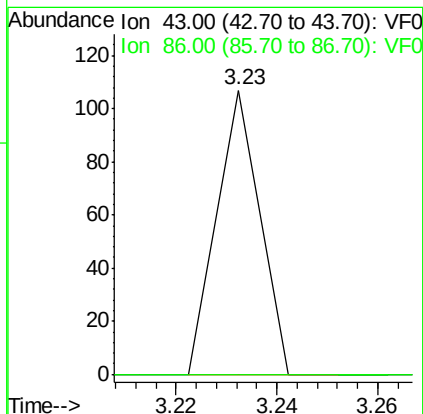
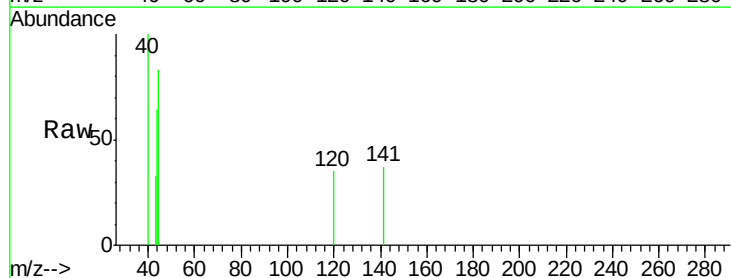
RT: 3.23 min Scan# 274

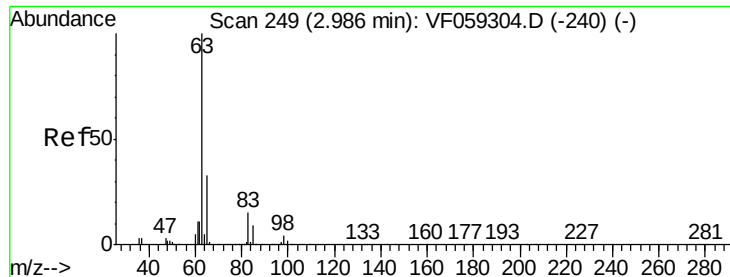
Delta R.T. -0.09 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Tgt Ion:	43	Resp:	63
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.6#





#24

1,1-Dichloroethane

Concen: 142.936 ug/l

RT: 2.97 min Scan# 247

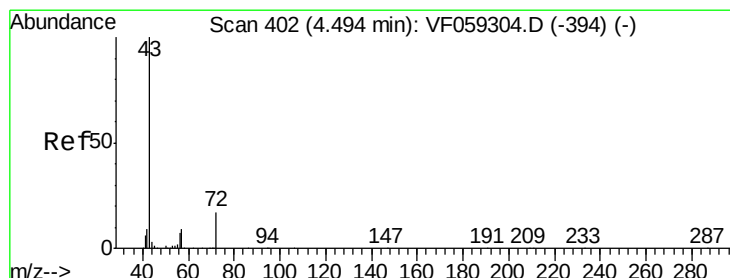
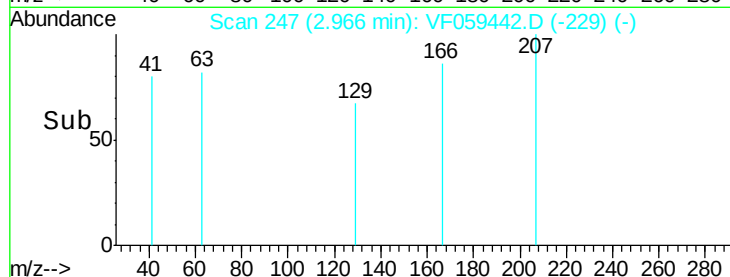
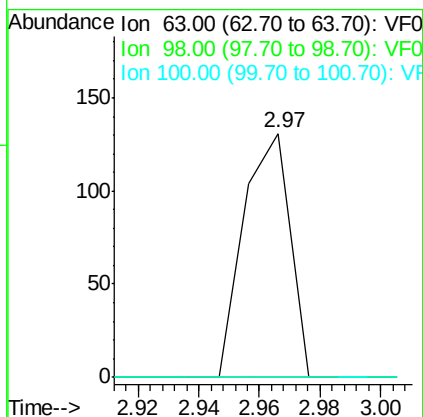
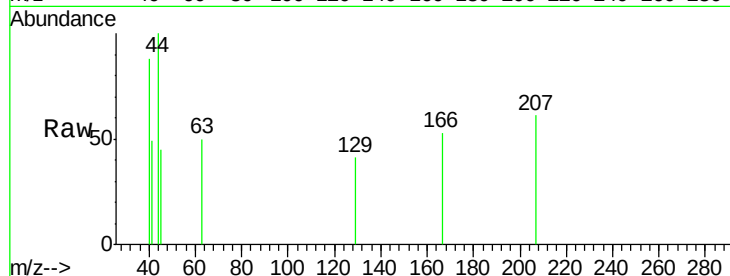
Delta R.T. -0.02 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	63	Resp:	139
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.0	6.0#
100	0.0	1.3	3.9#



#25

2-Butanone

Concen: 243.798 ug/l

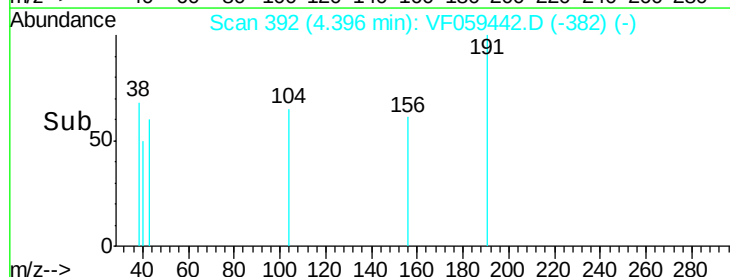
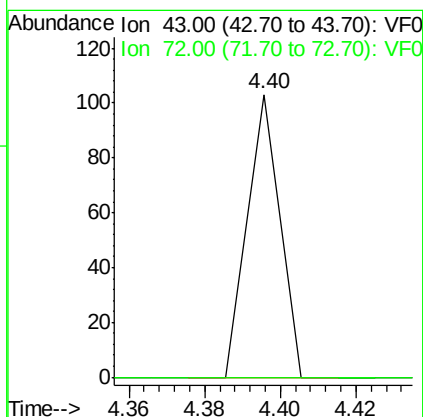
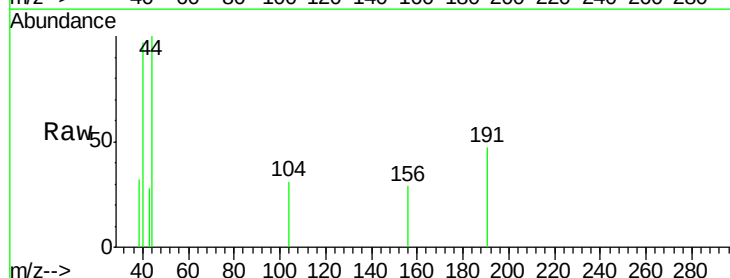
RT: 4.40 min Scan# 392

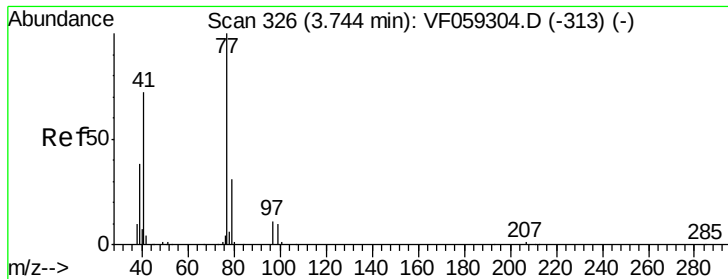
Delta R.T. -0.10 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Tgt Ion:	43	Resp:	61
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.4	21.6#





#26

2,2-Dichloropropane

Concen: 234.073 ug/l

RT: 3.70 min Scan# 321

Delta R.T. -0.05 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Instrument :

MSVOA_F

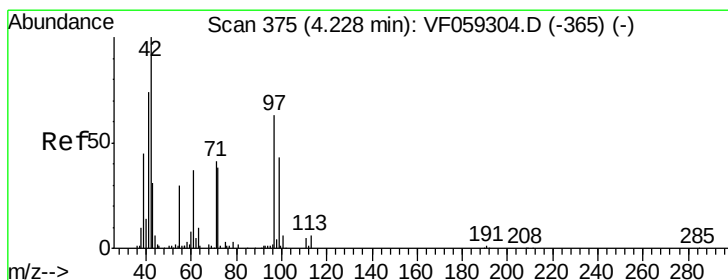
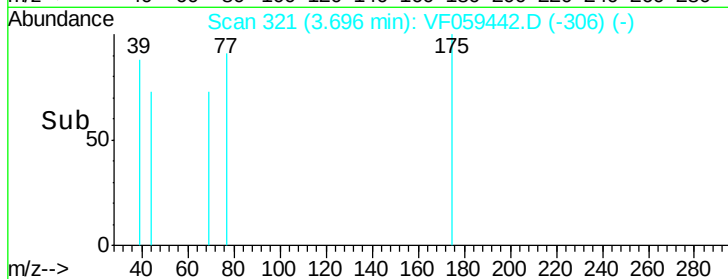
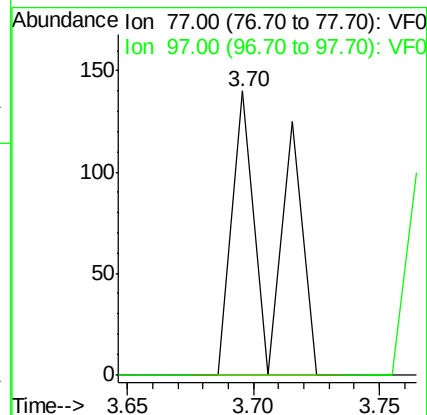
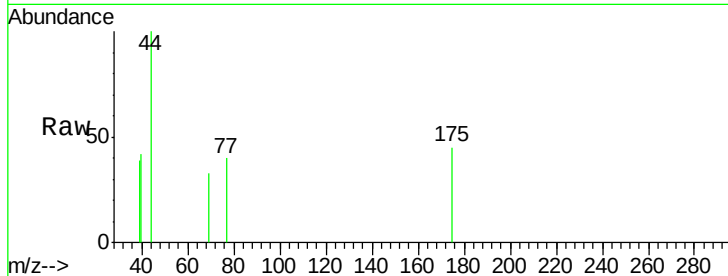
ClientSampleId :

Tot Ion: 77 Resp: 157

Ion Ratio Lower Upper

77 100

97 0.0 8.0 23.8#



#29

Tetrahydrofuran

Concen: 907.141 ug/l

RT: 4.13 min Scan# 365

Delta R.T. -0.10 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

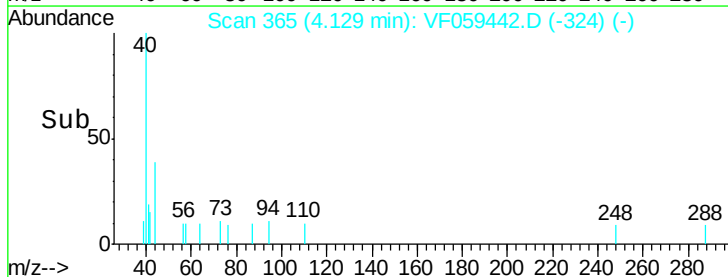
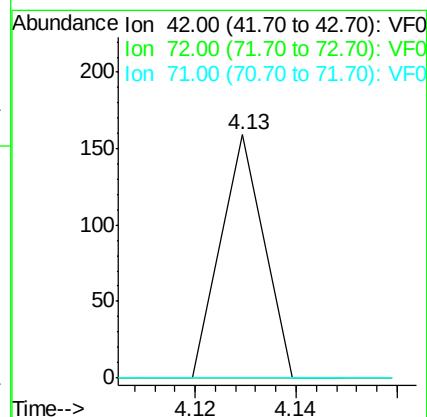
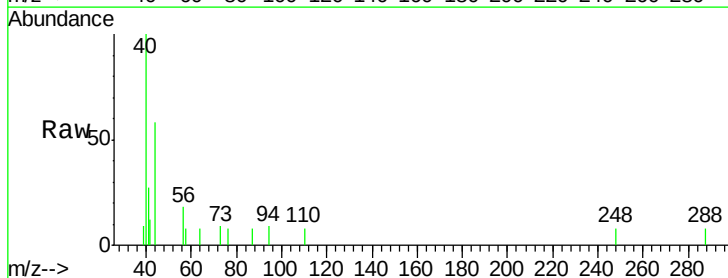
Tgt Ion: 42 Resp: 94

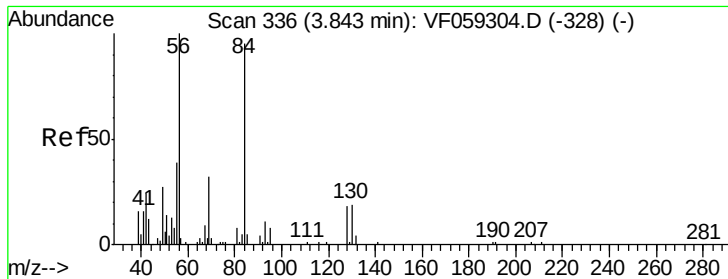
Ion Ratio Lower Upper

42 100

72 0.0 30.5 45.7#

71 0.0 32.5 48.7#

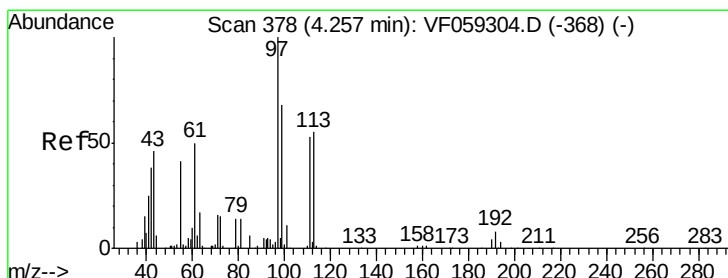
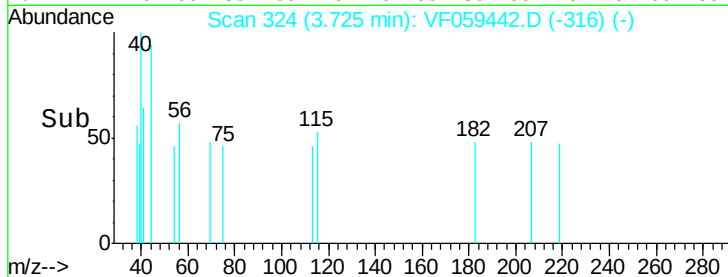
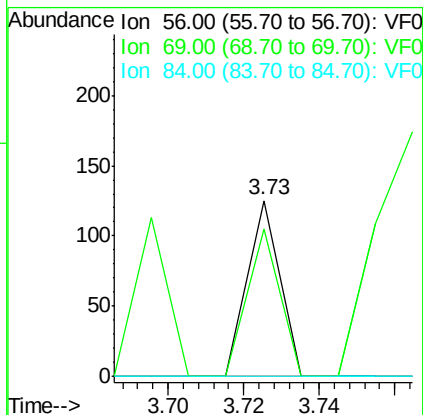
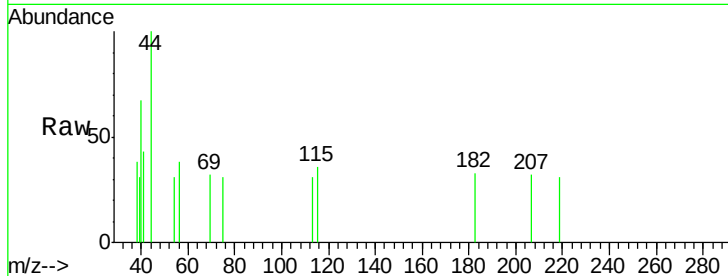




#31
Cyclohexane
Concen: 116.160 ug/l
RT: 3.73 min Scan# 324
Delta R.T. -0.12 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

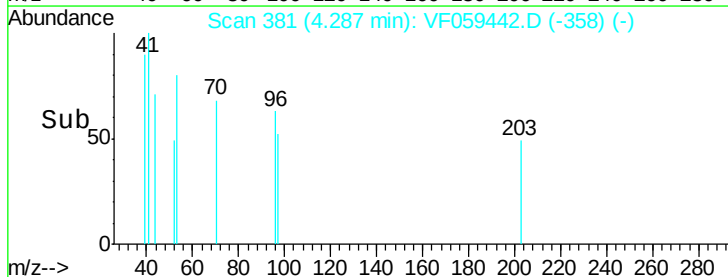
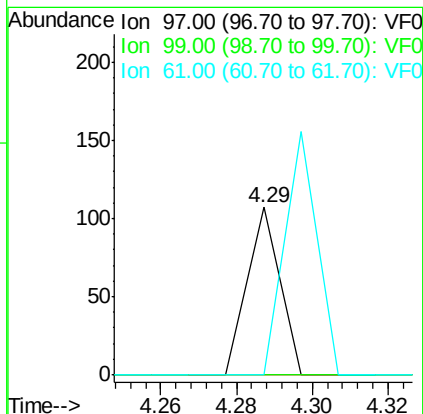
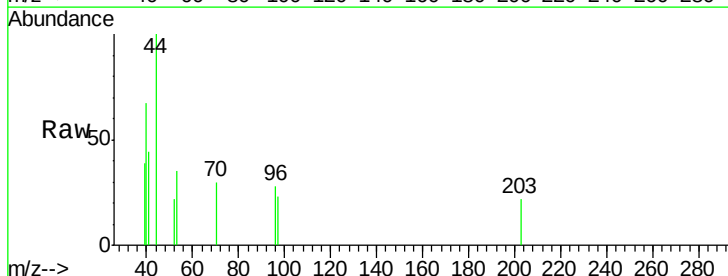
Instrument :
MSVOA_F
ClientSampleId :

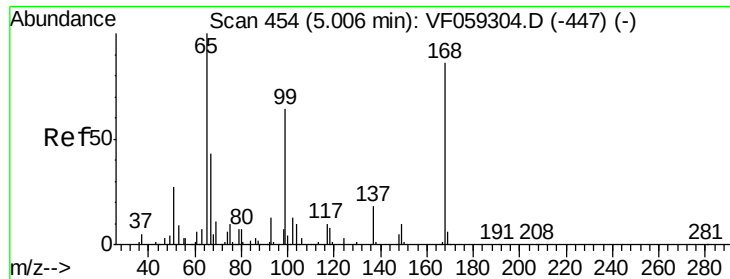
Tot Ion: 56 Resp: 74
Ion Ratio Lower Upper
56 100
69 84.0 25.8 38.8#
84 0.0 75.6 113.4#



#32
1,1,1-Trichloroethane
Concen: 61.152 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.03 min
Lab File: VF059442.D
Acq: 5 Jul 2018 18:59

Tgt Ion: 97 Resp: 63
Ion Ratio Lower Upper
97 100
99 0.0 54.1 81.1#
61 0.0 41.2 61.8#

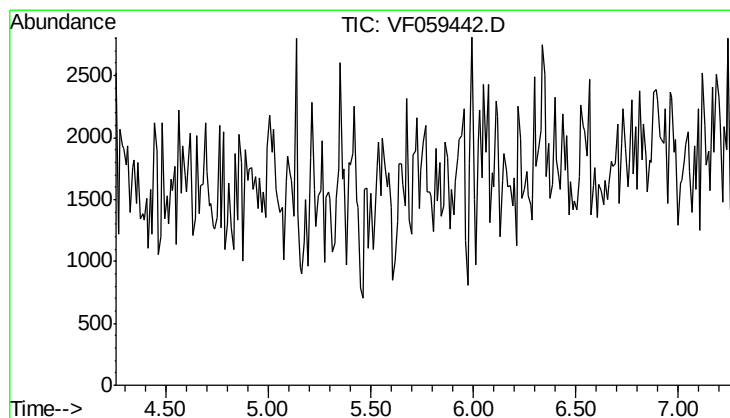
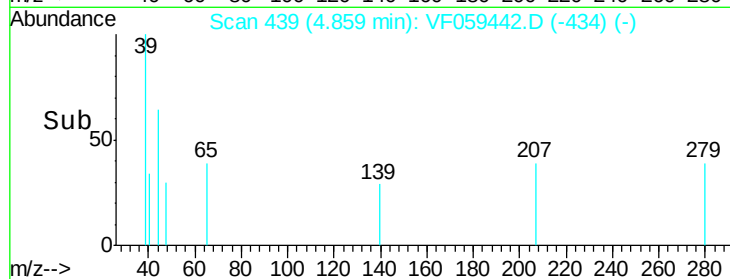
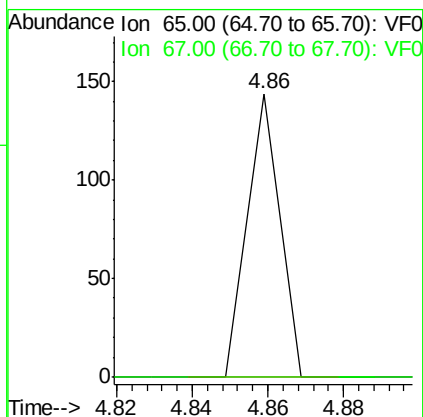
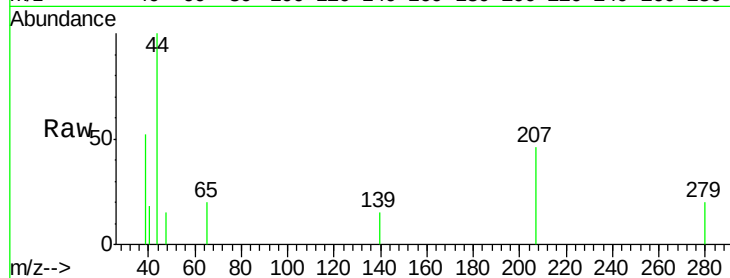




#33
 1,2-Dichloroethane-d4
 Concen: 102.797 ug/l
 RT: 4.86 min Scan# 439
 Delta R.T. -0.15 min
 Lab File: VF059442.D
 Acq: 5 Jul 2018 18:59

Instrument :
 MSVOA_F
 ClientSampleId :

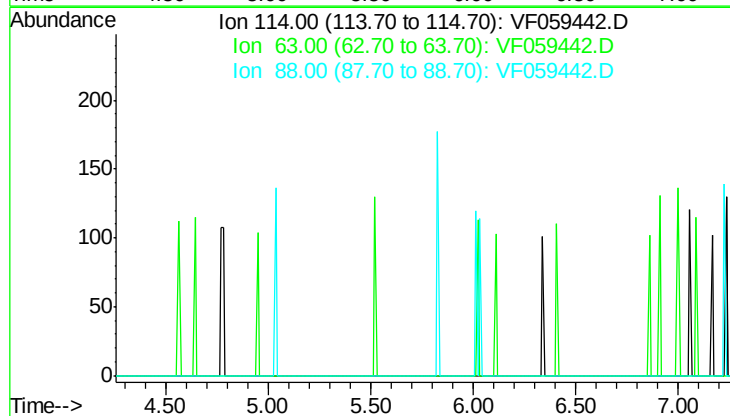
Tot Ion: 65 Resp: 85
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 96.8

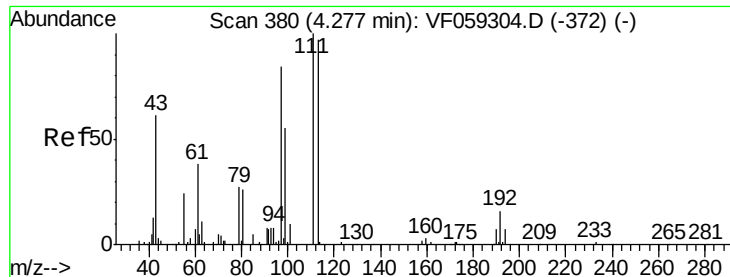


#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 5.76 min

Lab File: VF059442.D
 Acq: 5 Jul 2018 18:59

Tgt Ion: 114
 Sig Exp Ratio
 114 100
 63 22.9
 88 20.6





#35

Dibromofluoromethane

Concen: 0.000 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.03 min

Lab File: VF059442.D

Acq: 5 Jul 2018 18:59

Instrument :

MSVOA_F

ClientSampleId :

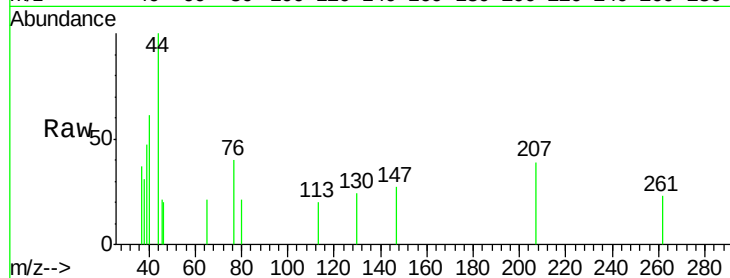
Tot Ion:113 Resp: 60

Ion Ratio Lower Upper

113 100

111 0.0 82.1 123.1#

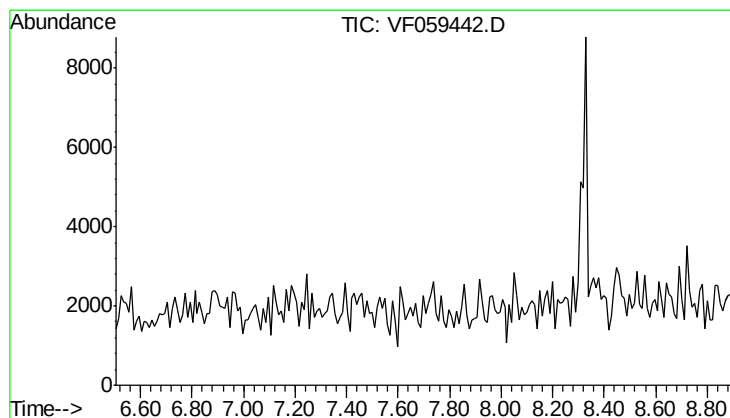
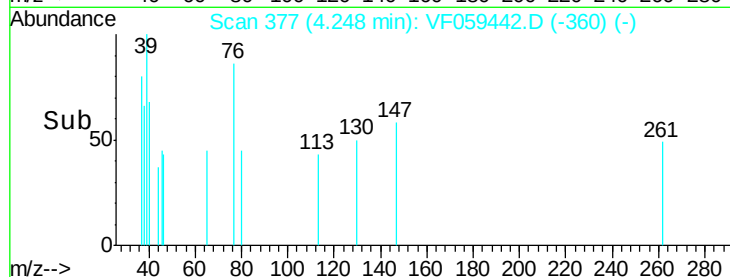
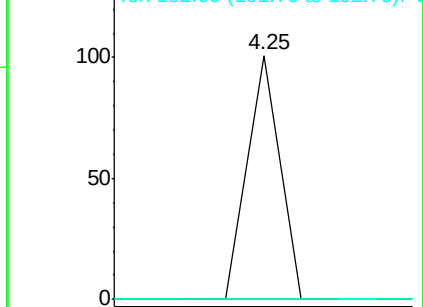
192 0.0 13.0 19.6#



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



#50

Toluene-d8

Concen: 0.000 ug/l

Expected RT: 7.70 min

Lab File: VF059442.D

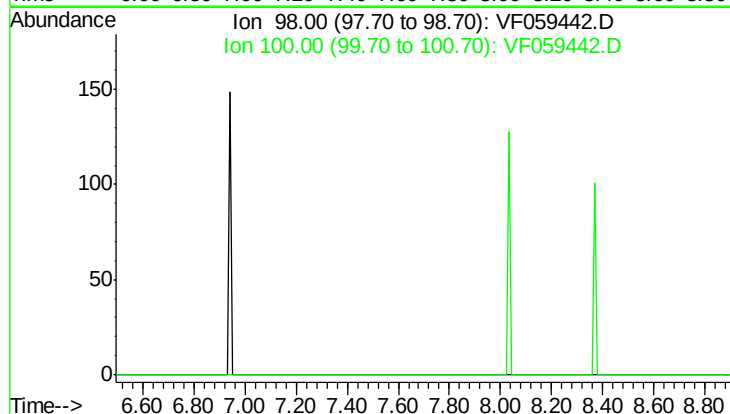
Acq: 5 Jul 2018 18:59

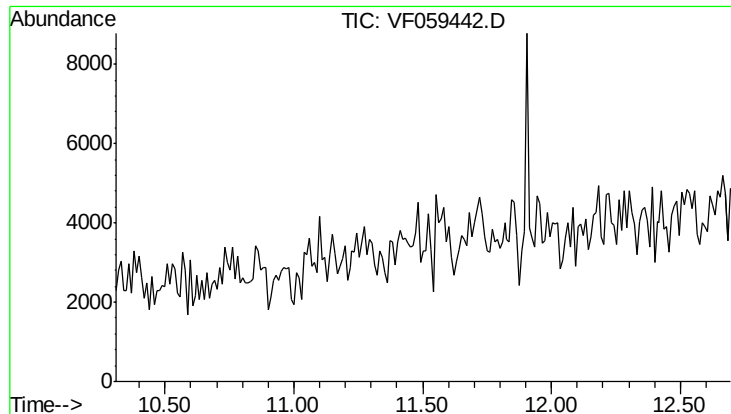
Tgt Ion: 98

Sig Exp Ratio

98 100

100 68.3

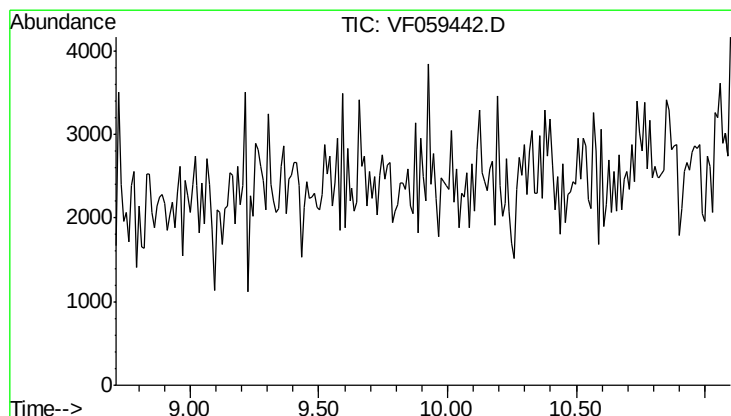
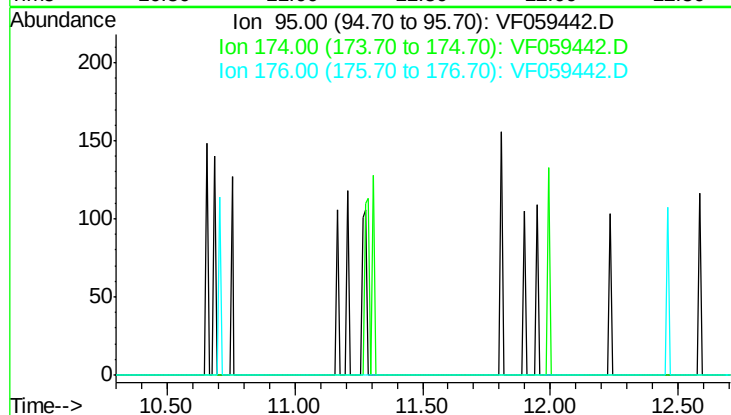




#62
 4-Bromofluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 11.50 min
 Lab File: VF059442.D
 Acq: 5 Jul 2018 18:59

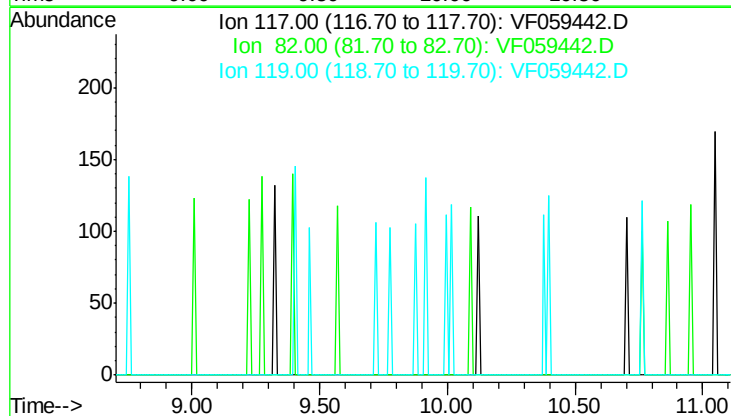
Instrument :
 MSVOA_F
 ClientSampleId :

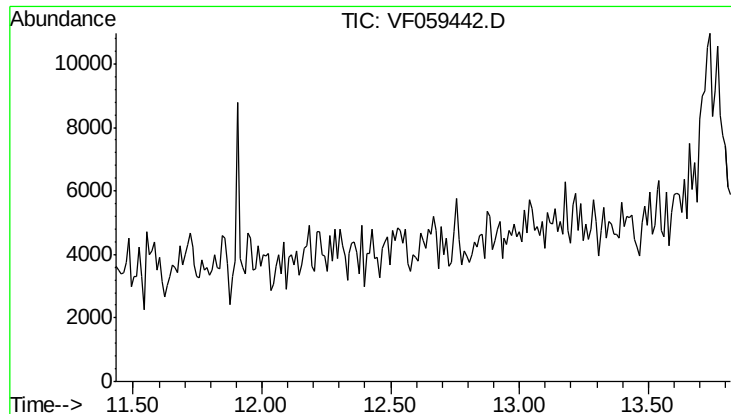
Tot Ion	95
Sig	Exp Ratio
95	100
174	82.6
176	80.5



#63
 Chlorobenzene-d5
 Concen: 0.000 ug/l
 Expected RT: 9.91 min
 Lab File: VF059442.D
 Acq: 5 Jul 2018 18:59

Tgt 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: VF059442.D
Acq: 5 Jul 2018 18:59

Instrument :
MSVOA_F
ClientSampleId :

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

