

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF070618\
 Data File : VF059463.D
 Acq On : 6 Jul 2018 21:30
 Operator : VA/AP
 Sample : J3855-02
 Misc : 6.60µ/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 S-9(7.5-8)

Quant Time: Jul 07 01:52:15 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	5.01	168	201219	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.73	114	301955	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.88	117	310862	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	200575	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	170141	65.45	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	130.90%	
35) Dibromofluoromethane	4.26	113	144897	65.67	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	131.34%	
50) Toluene-d8	7.68	98	283110	51.83	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	11.49	95	176170	57.17	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	114.34%	

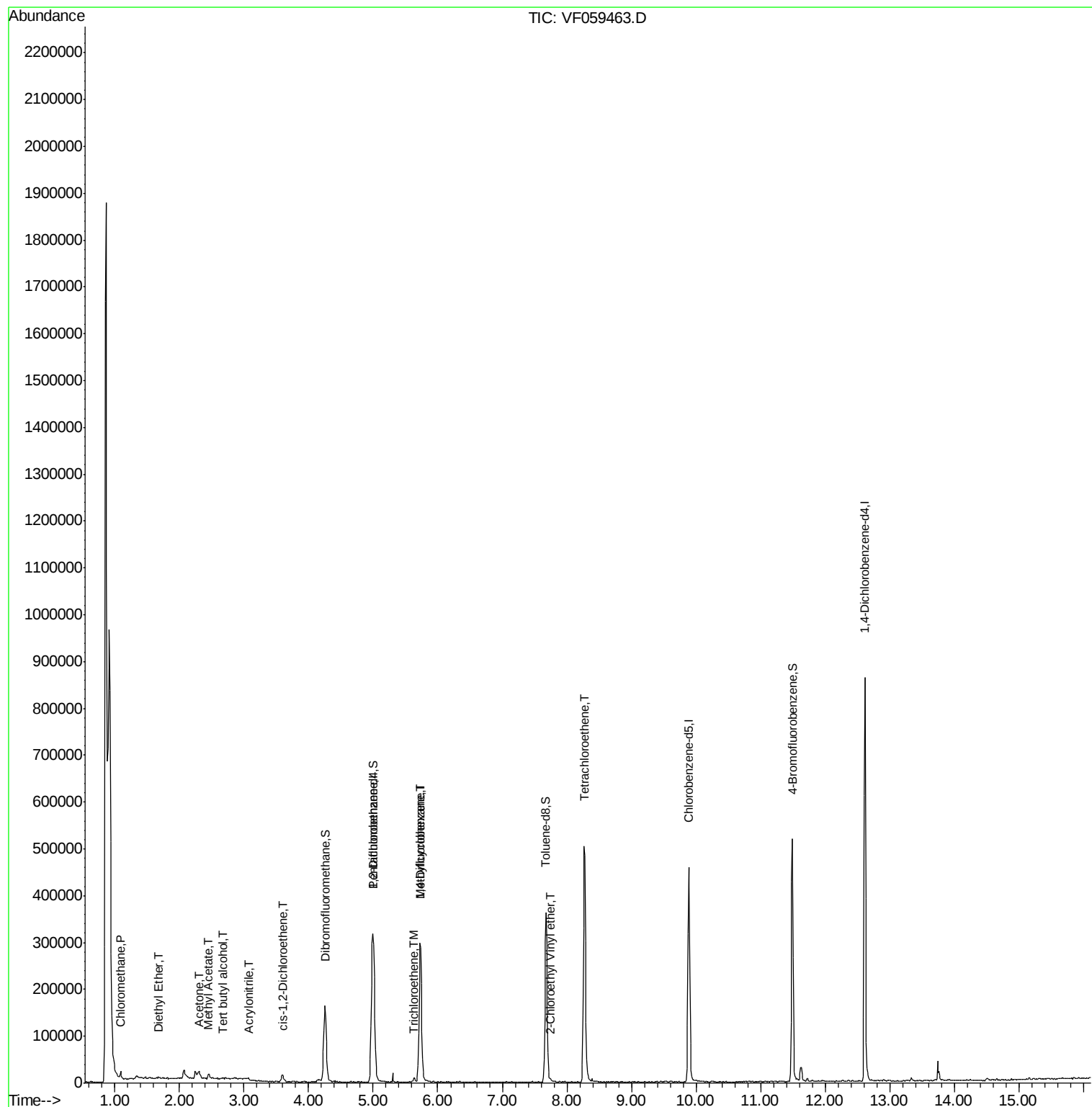
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.09	50	1392	1.127	ug/l #	84
5) Bromomethane	1.32	94	293	Below Cal	#	4
8) Diethyl Ether	1.68	74	700	1.136	ug/l	58
11) Tert butyl alcohol	2.67	59	711	4.108	ug/l #	66
13) Acrolein	2.06	56	156	Below Cal	#	1
15) Acrylonitrile	3.06	53	455	1.493	ug/l #	93
16) Acetone	2.31	43	7851	1.973	ug/l	94
18) Methyl Acetate	2.45	43	6340	4.340	ug/l #	61
20) Methylene Chloride	2.26	84	5081	Below Cal	#	84
25) 2-Butanone	4.46	43	133	Below Cal	#	59
27) cis-1,2-Dichloroethene	3.60	96	7970	4.148	ug/l	76
28) Bromochloromethane	3.73	49	82	Below Cal	#	6
29) Tetrahydrofuran	4.23	42	694	Below Cal	#	47
37) Ethyl Acetate	4.23	43	475	Below Cal	#	26
39) Methylcyclohexane	5.73	83	5121	2.191	ug/l #	38
44) Trichloroethene	5.64	130	3181	1.585	ug/l	99
49) 1,4-Dioxane	6.53	88	64	Below Cal	#	20
58) 2-Chloroethyl Vinyl ether	7.75	63	342	2.166	ug/l	100
59) 2-Hexanone	9.63	43	608	Below Cal	#	30
64) Tetrachloroethene	8.28	164	140937	69.903	ug/l	97
87) 1,3-Dichlorobenzene	12.54	146	409	Below Cal	#	45

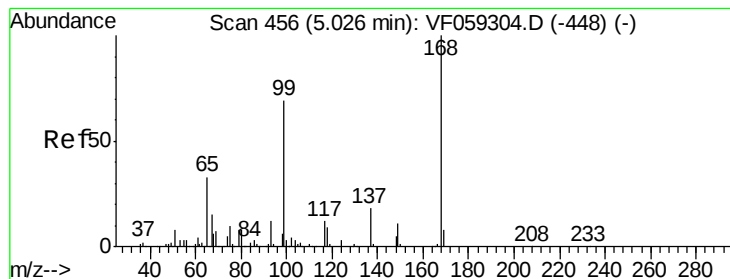
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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S-9(7.5-8)

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.02 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

Instrument :

MSVOA_F

ClientSampleId :

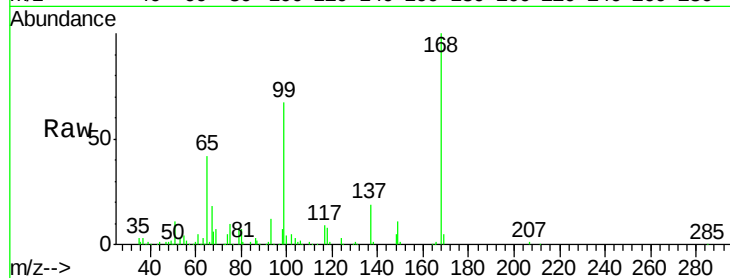
S-9(7.5-8)

Tot Ion:168 Resp: 201219

Ion Ratio Lower Upper

168 100

99 67.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

5.01

80000

60000

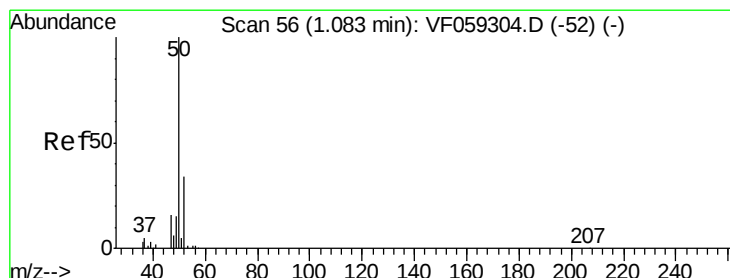
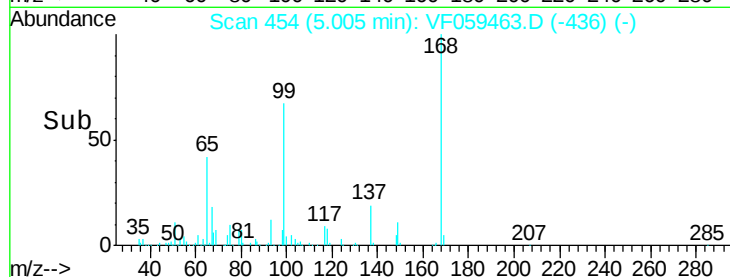
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 1.127 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059463.D

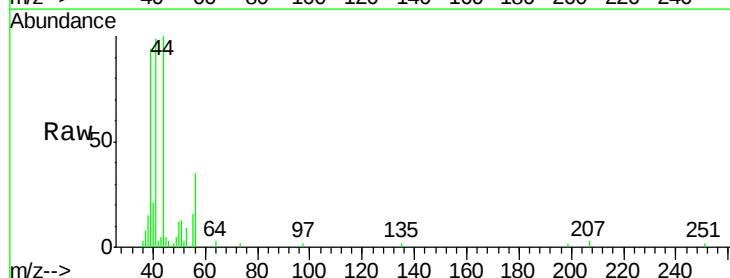
Acq: 6 Jul 2018 21:30

Tgt Ion: 50 Resp: 1392

Ion Ratio Lower Upper

50 100

52 24.3 26.7 40.1#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.09

600

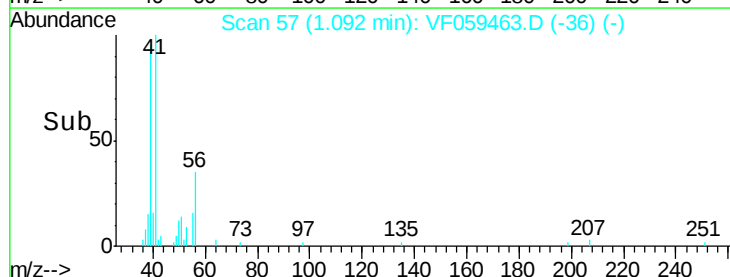
400

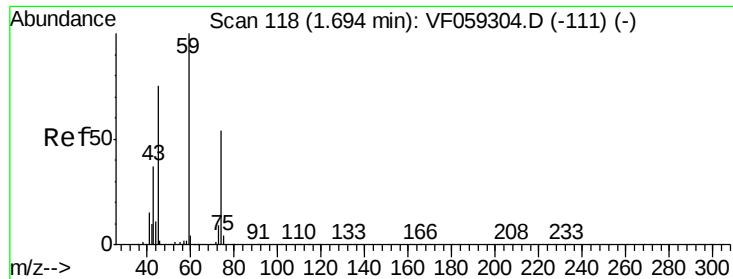
200

0

Time-->

1.00 1.05 1.10 1.15 1.20





#8

Diethyl Ether

Concen: 1.136 ug/l

RT: 1.68 min Scan# 117

Delta R.T. -0.01 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

Instrument :

MSVOA_F

ClientSampleId :

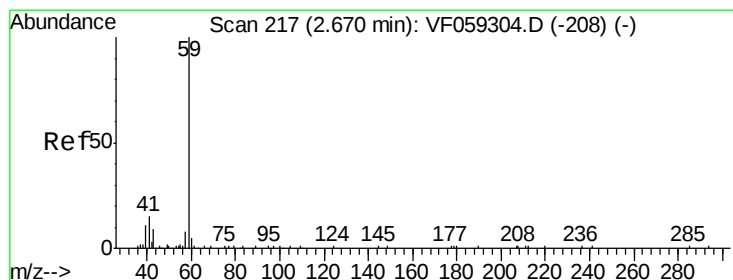
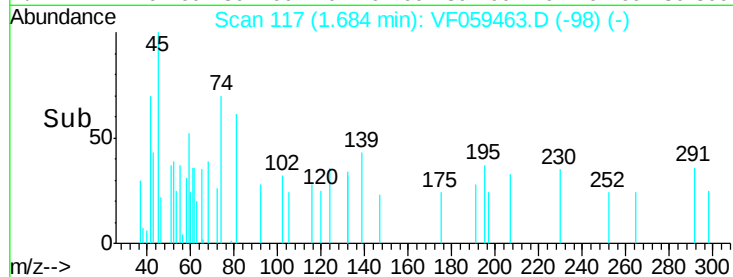
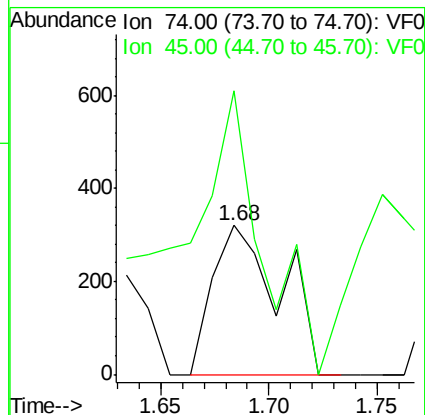
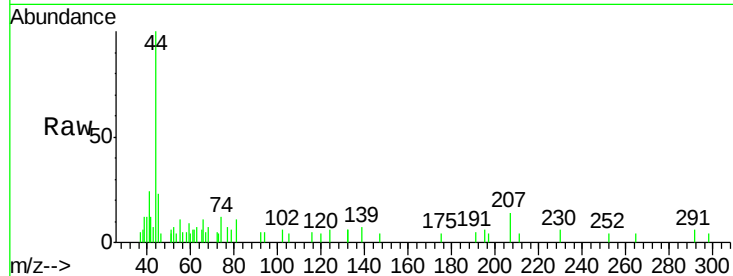
S-9(7.5-8)

Tot Ion: 74 Resp: 700

Ion Ratio Lower Upper

74 100

45 190.6 70.0 210.0



#11

Tert butyl alcohol

Concen: 4.108 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.00 min

Lab File: VF059463.D

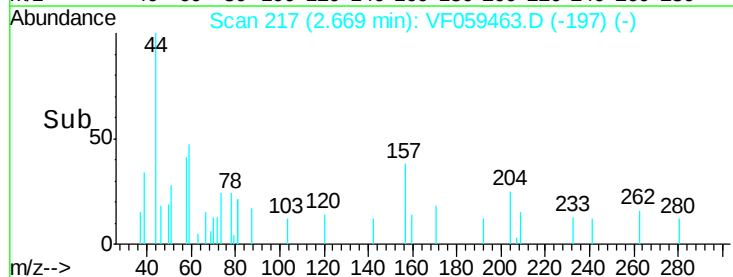
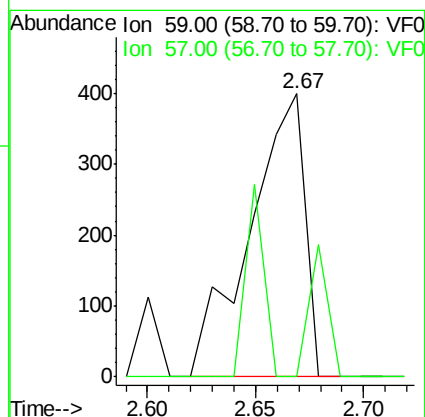
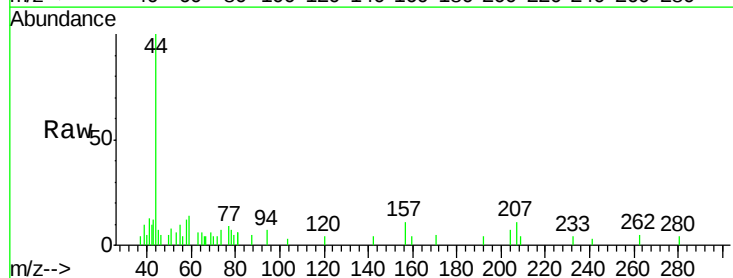
Acq: 6 Jul 2018 21:30

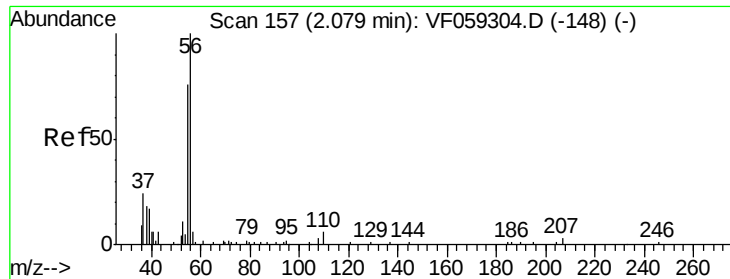
Tgt Ion: 59 Resp: 711

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#





#13

Acrolein

Concen: Below Cal

RT: 2.06 min Scan# 155

Delta R.T. -0.02 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

Instrument :

MSVOA_F

ClientSampled :

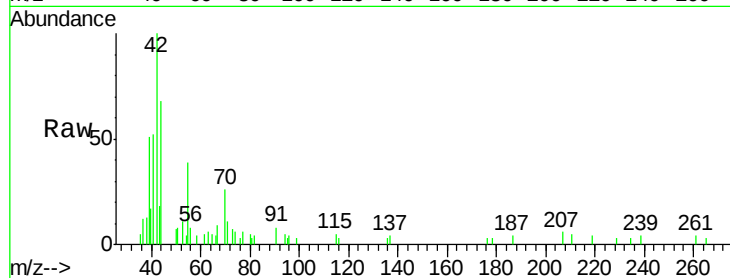
S-9(7.5-8)

Tot Ion: 56 Resp: 156

Ion Ratio Lower Upper

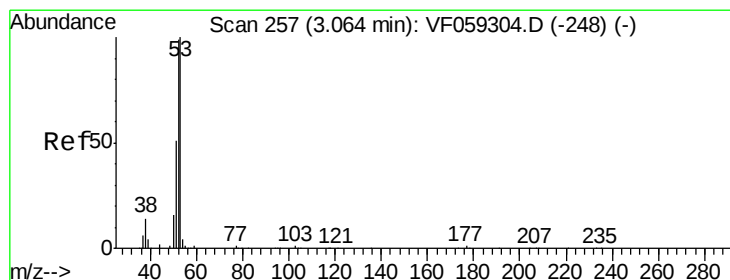
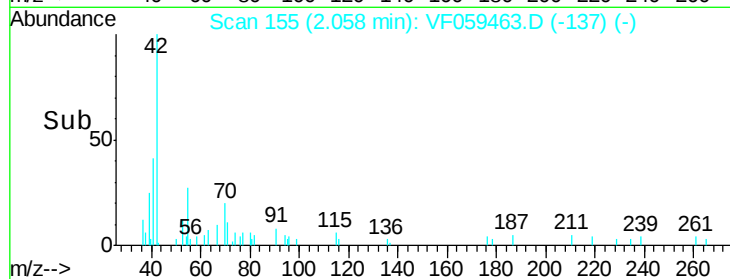
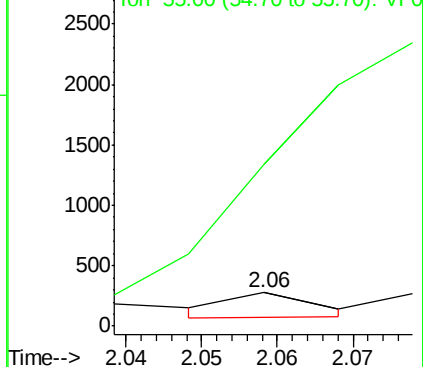
56 100

55 487.6 62.4 93.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 1.493 ug/l

RT: 3.06 min Scan# 257

Delta R.T. -0.00 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

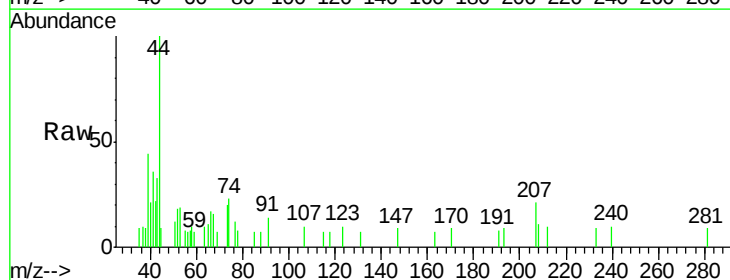
Tgt Ion: 53 Resp: 455

Ion Ratio Lower Upper

53 100

52 96.1 79.2 118.8

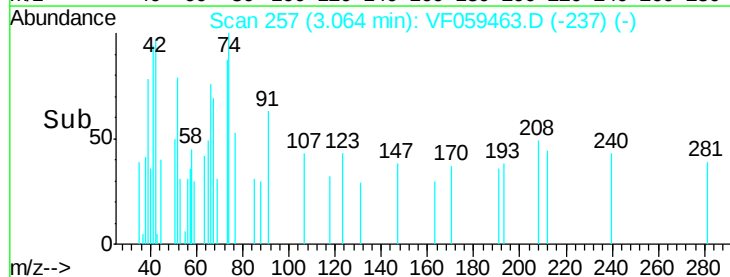
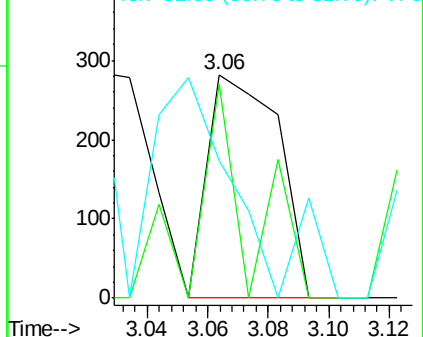
51 61.3 40.9 61.3#

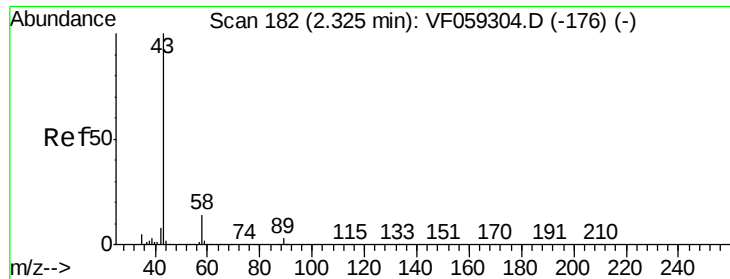


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

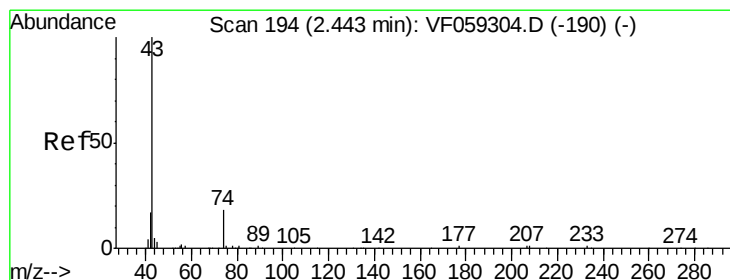
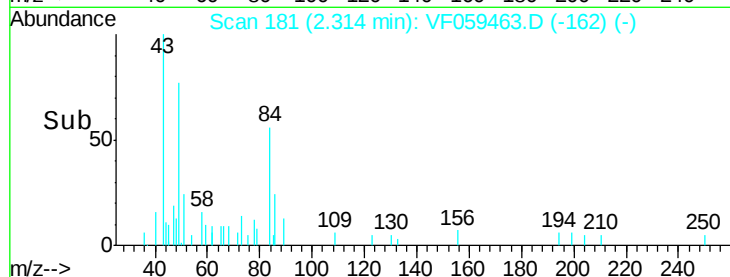
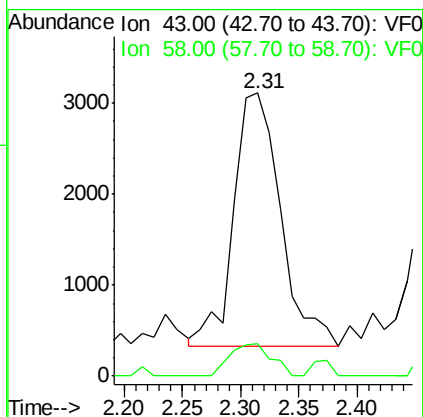
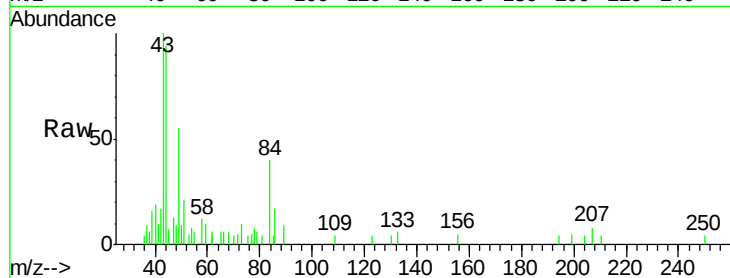




#16
Acetone
Concen: 1.973 ug/l
RT: 2.31 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

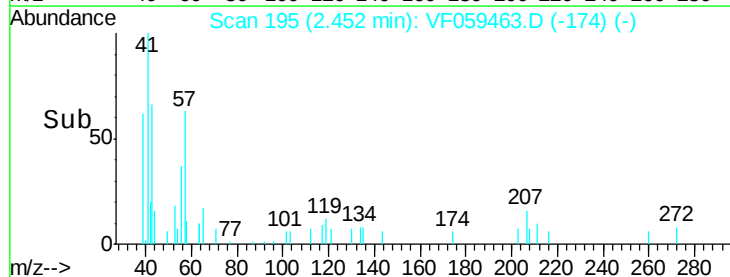
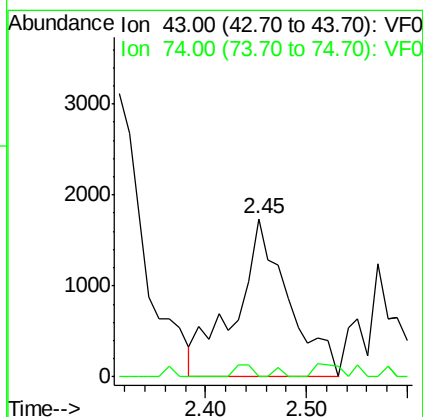
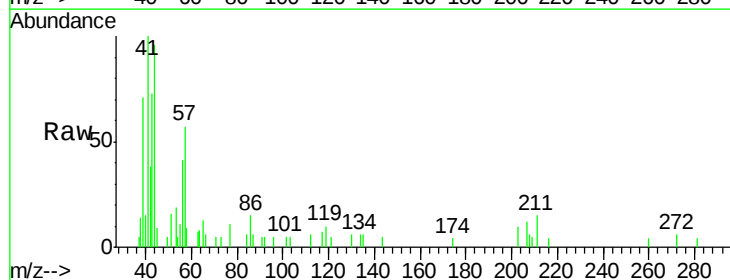
Instrument :
MSVOA_F
ClientSampleId :
S-9(7.5-8)

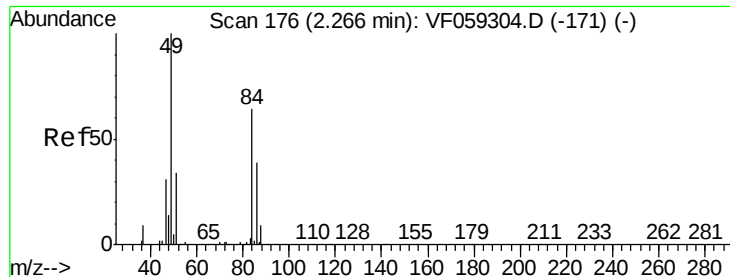
Tot Ion: 43 Resp: 7851
Ion Ratio Lower Upper
43 100
58 11.6 11.4 17.0



#18
Methyl Acetate
Concen: 4.340 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.01 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Tgt Ion: 43 Resp: 6340
Ion Ratio Lower Upper
43 100
74 0.0 13.3 19.9#



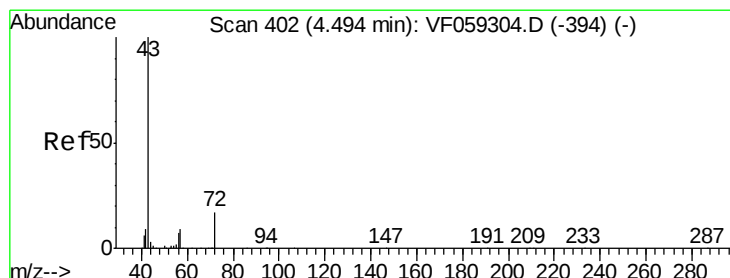
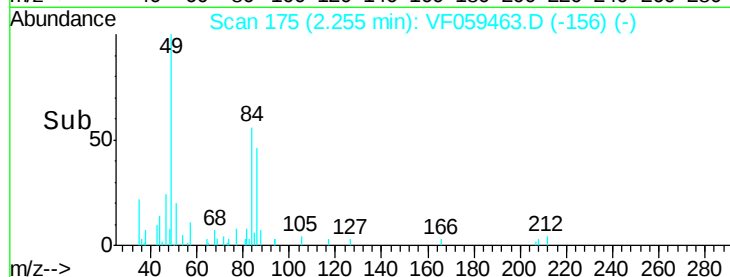
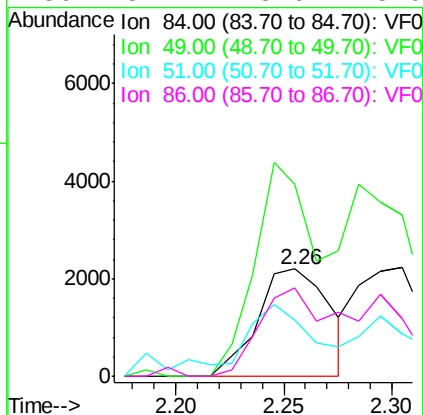
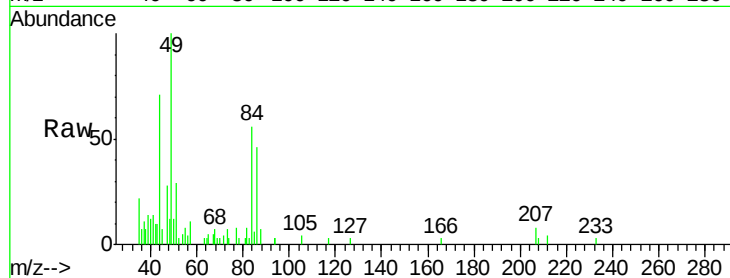


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.26 min Scan# 175
 Delta R.T. -0.01 min
 Lab File: VF059463.D
 Acq: 6 Jul 2018 21:30

Instrument :
 MSVOA_F
 ClientSampleId :
 S-9(7.5-8)

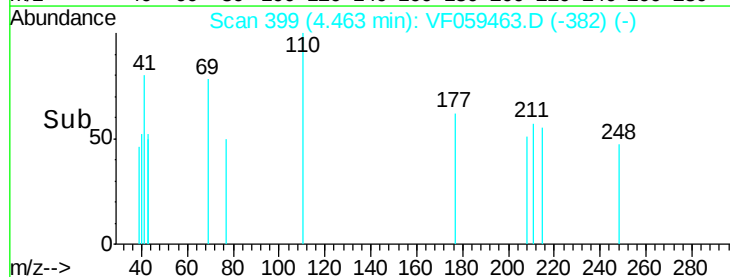
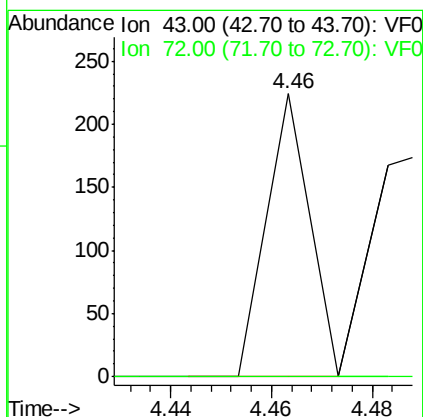
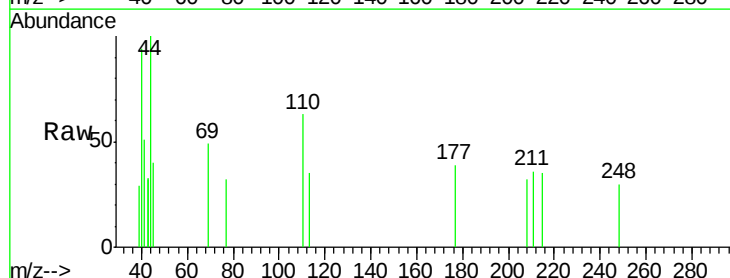
Tot Ion	84.00	Resp	5081
Ion Ratio	Lower	Upper	
84	100		
49	179.3	126.5	189.7
51	52.2	42.9	64.3
86	82.7	48.6	73.0#

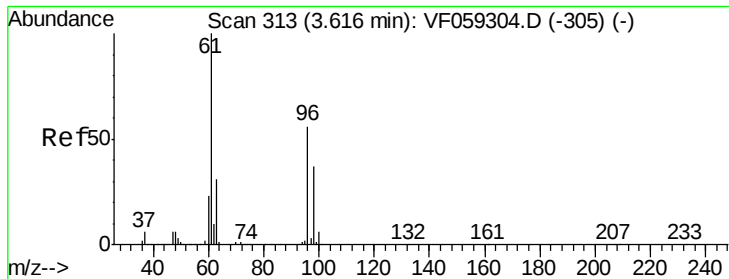


#25

2-Butanone
 Concen: Below Cal
 RT: 4.46 min Scan# 399
 Delta R.T. -0.03 min
 Lab File: VF059463.D
 Acq: 6 Jul 2018 21:30

Tgt Ion	43	Resp	133
Ion Ratio	Lower	Upper	
43	100		
72	0.0	14.4	21.6#



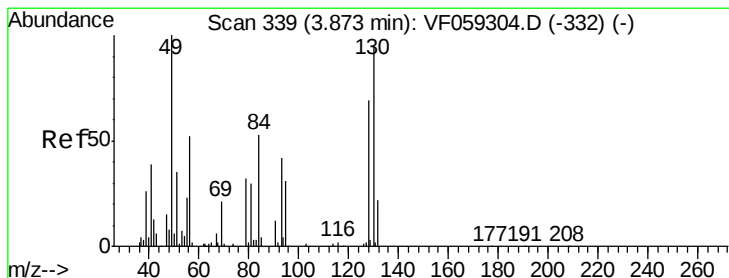
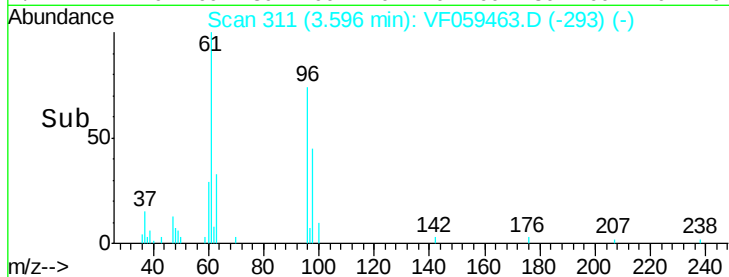
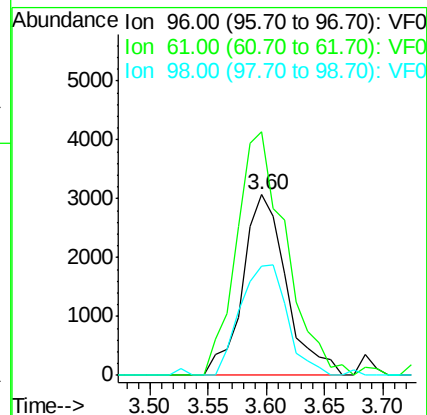
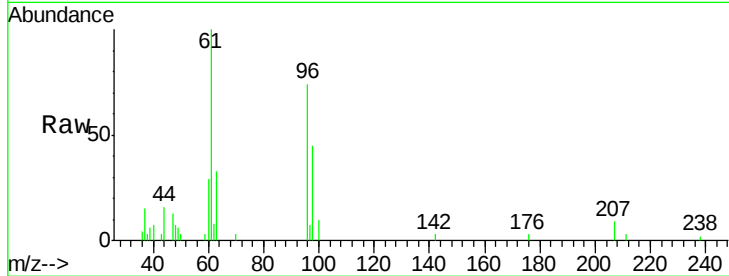


#27

cis-1,2-Dichloroethene
Concen: 4.148 ug/l
RT: 3.60 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Instrument :
MSVOA_F
ClientSampled :
S-9(7.5-8)

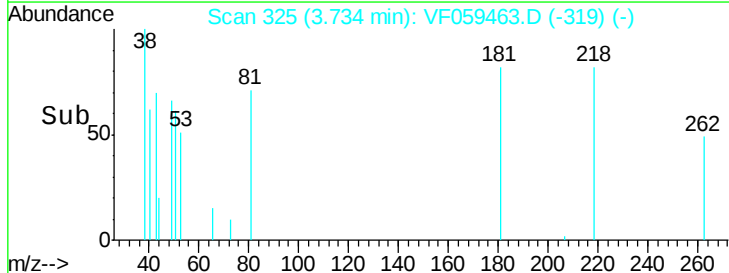
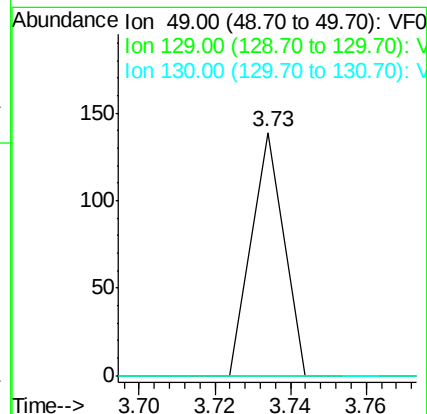
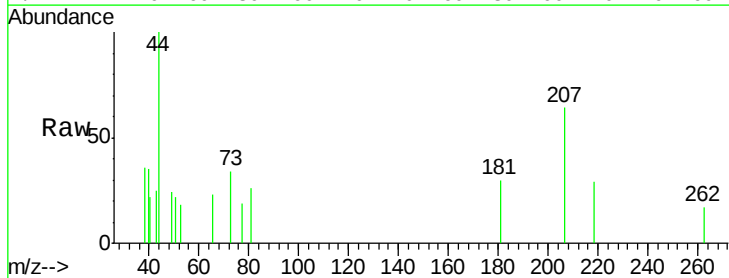
Tot Ion: 96 Resp: 7970
Ion Ratio Lower Upper
96 100
61 135.0 0.0 355.4
98 60.3 0.0 131.0

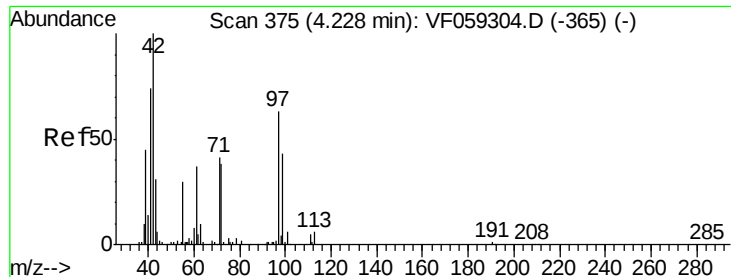


#28

Bromochloromethane
Concen: Below Cal
RT: 3.73 min Scan# 325
Delta R.T. -0.14 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Tgt Ion: 49 Resp: 82
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.4
130 0.0 75.1 112.7#

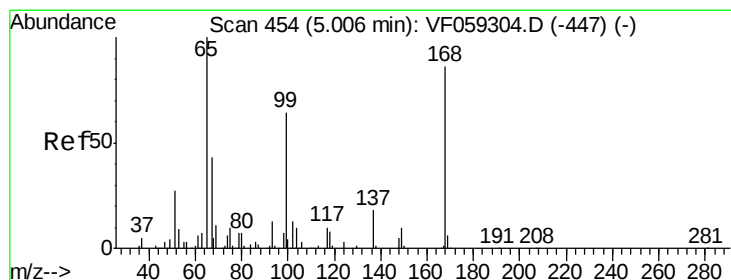
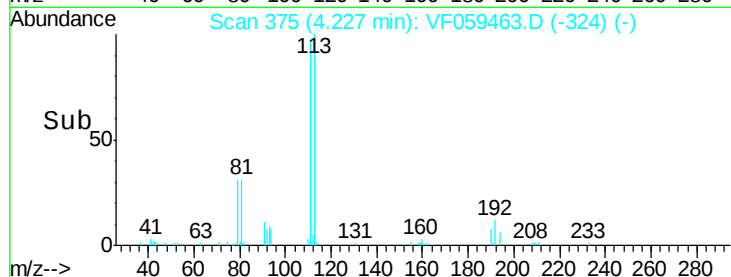
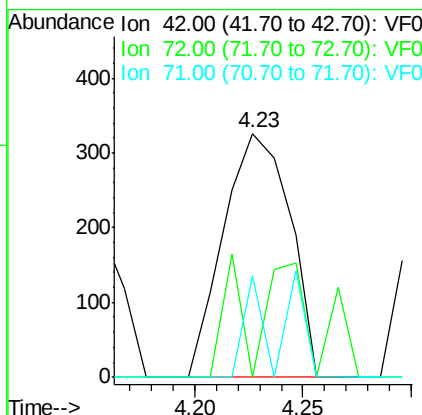
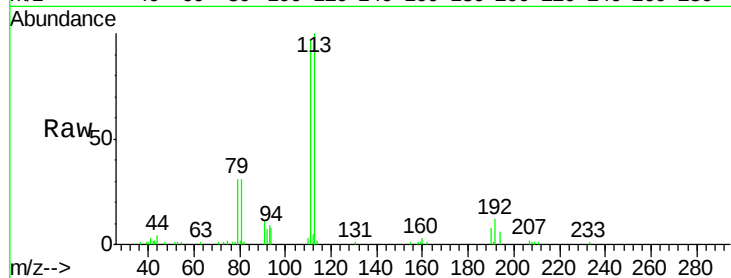




#29
Tetrahydrofuran
Concen: Below Cal
RT: 4.23 min Scan# 375
Delta R.T. -0.00 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

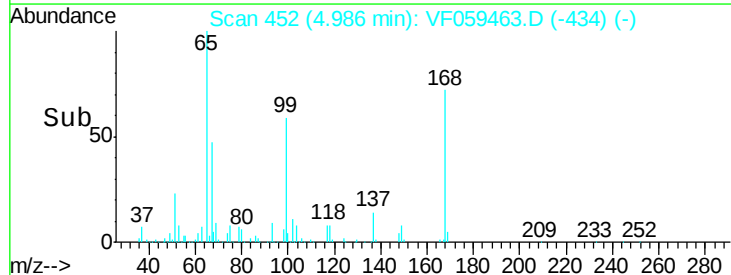
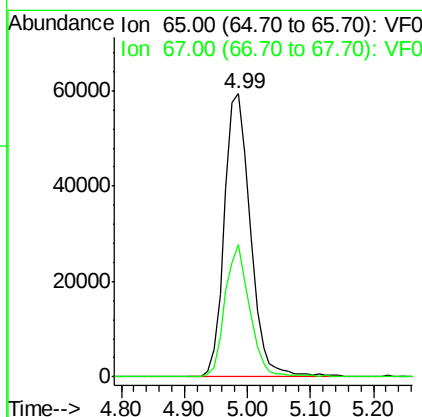
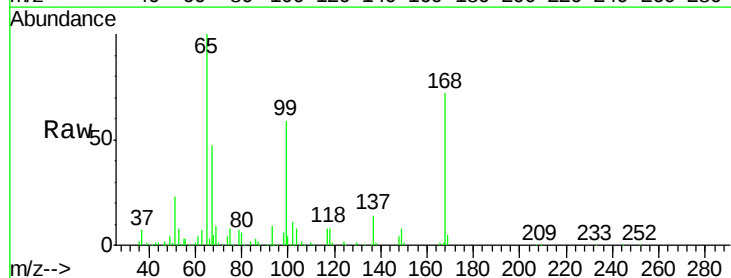
Instrument :
MSVOA_F
ClientSampleId :
S-9(7.5-8)

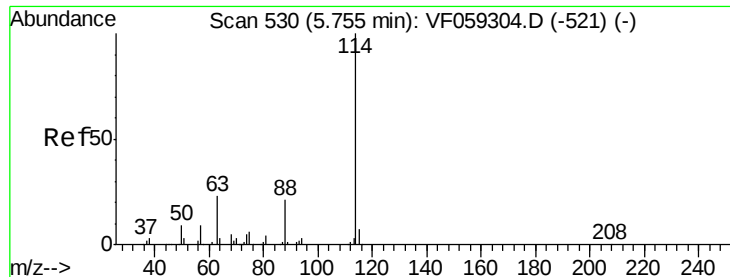
Tot Ion: 42 Resp: 694
Ion Ratio Lower Upper
42 100
72 14.1 30.5 45.7#
71 0.0 32.5 48.7#



#33
1,2-Dichloroethane-d4
Concen: 65.446 ug/l
RT: 4.99 min Scan# 452
Delta R.T. -0.02 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Tgt Ion: 65 Resp: 170141
Ion Ratio Lower Upper
65 100
67 46.8 0.0 96.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.73 min Scan# 528

Delta R.T. -0.02 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

Instrument :

MSVOA_F

ClientSampleId :

S-9(7.5-8)

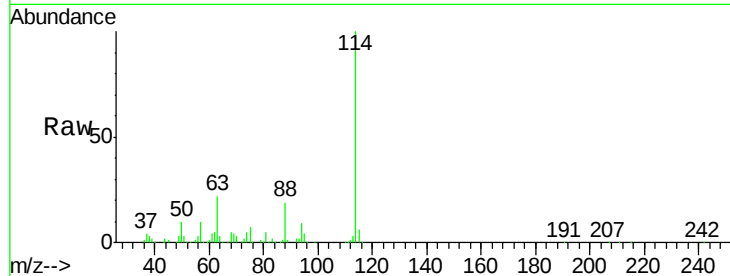
Tot Ion:114 Resp: 301955

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.8

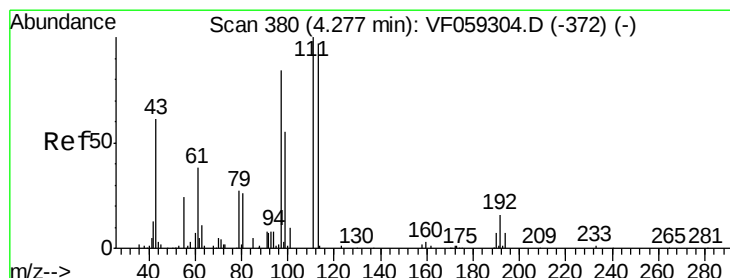
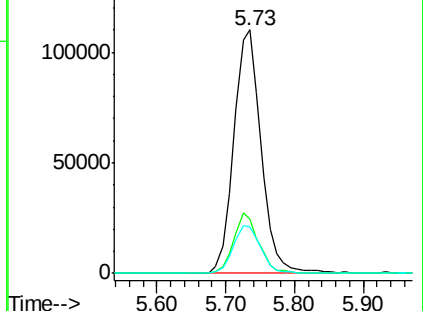
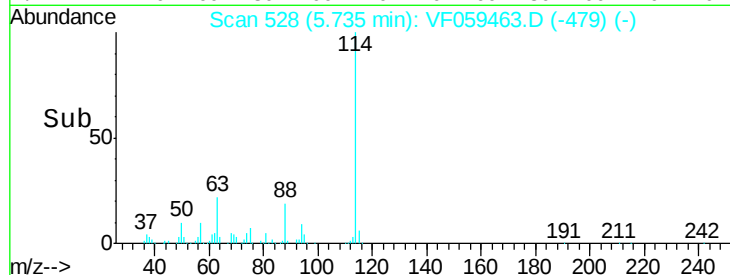
88 19.0 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 65.675 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.02 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

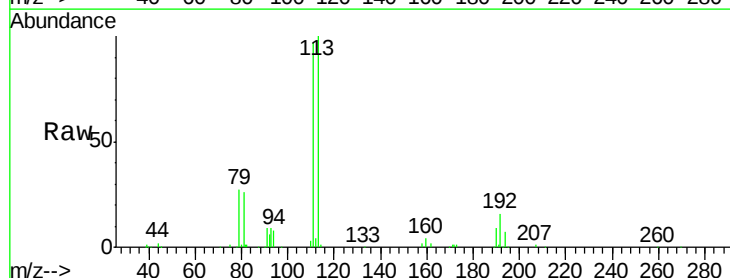
Tgt Ion:113 Resp: 144897

Ion Ratio Lower Upper

113 100

111 97.1 82.1 123.1

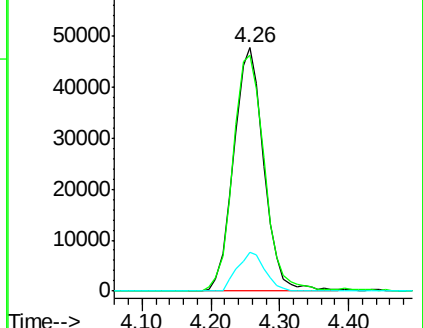
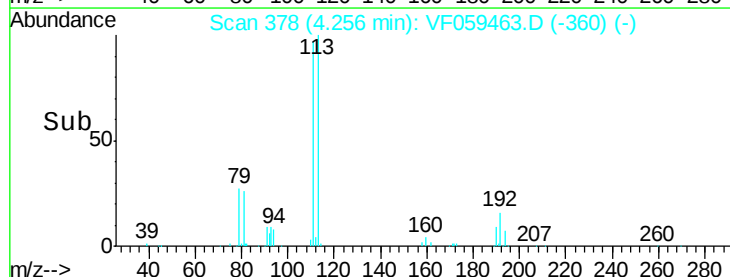
192 16.0 13.0 19.6

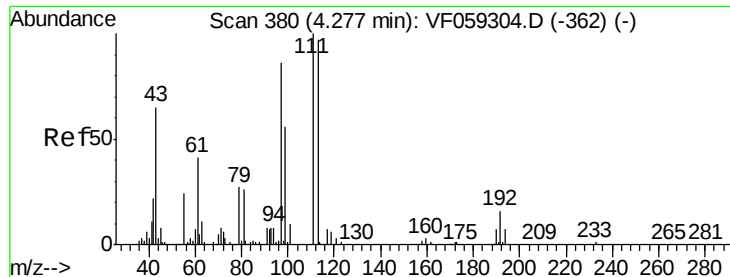


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

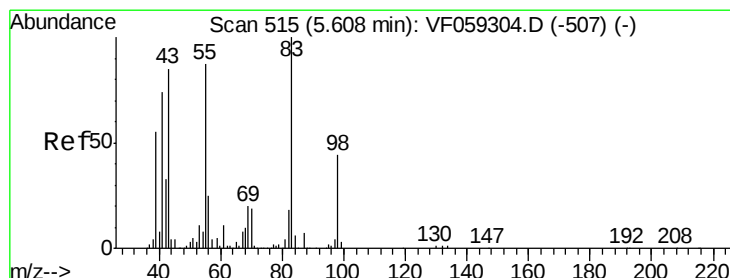
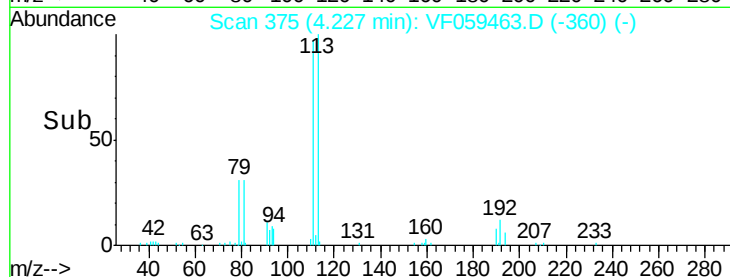
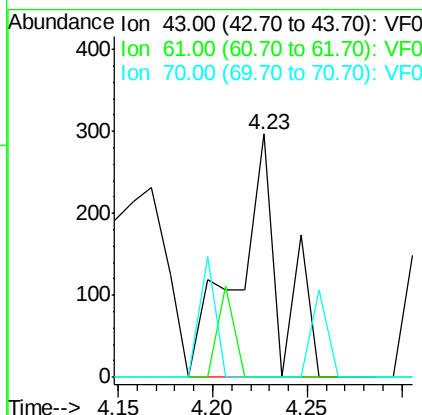
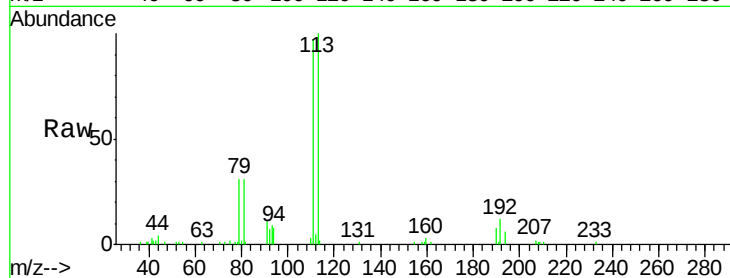




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.23 min Scan# 375
Delta R.T. -0.05 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

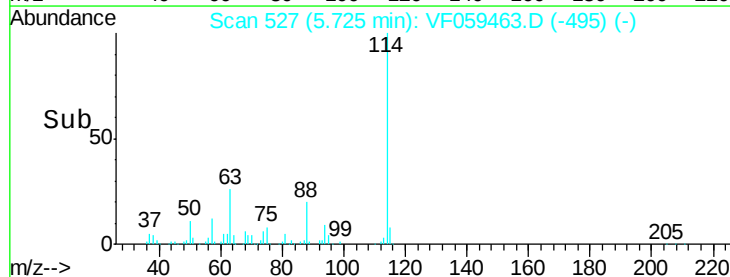
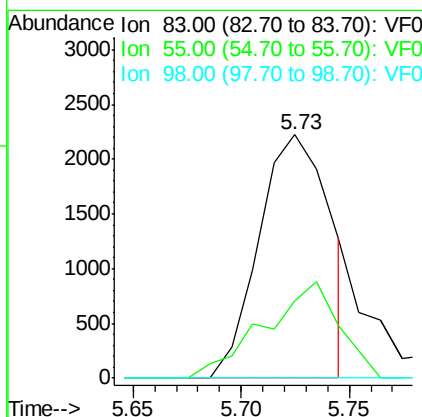
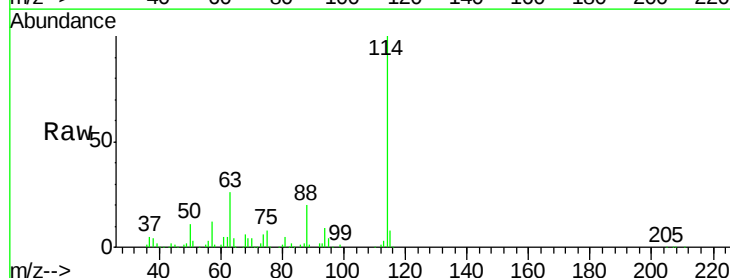
Instrument :
MSVOA_F
ClientSampleId :
S-9(7.5-8)

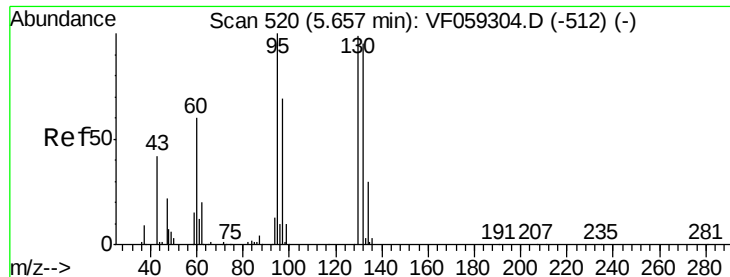
Tot Ion: 43 Resp: 475
Ion Ratio Lower Upper
43 100
61 0.0 50.1 75.1#
70 0.0 6.2 9.4#



#39
Methylcyclohexane
Concen: 2.191 ug/l
RT: 5.73 min Scan# 527
Delta R.T. 0.12 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Tgt Ion: 83 Resp: 5121
Ion Ratio Lower Upper
83 100
55 31.8 69.2 103.8#
98 0.0 35.0 52.6#





#44

Trichloroethene

Concen: 1.585 ug/l

RT: 5.64 min Scan# 518

Delta R.T. -0.02 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

Instrument :

MSVOA_F

ClientSampleId :

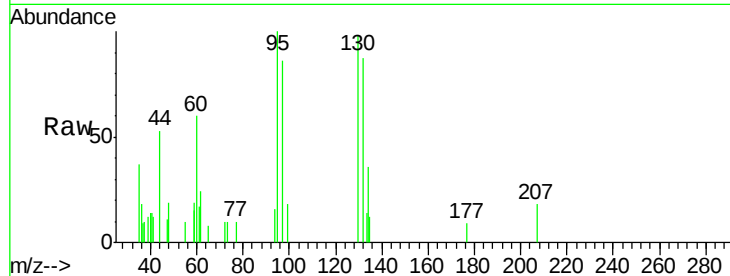
S-9(7.5-8)

Tot Ion:130 Resp: 3181

Ion Ratio Lower Upper

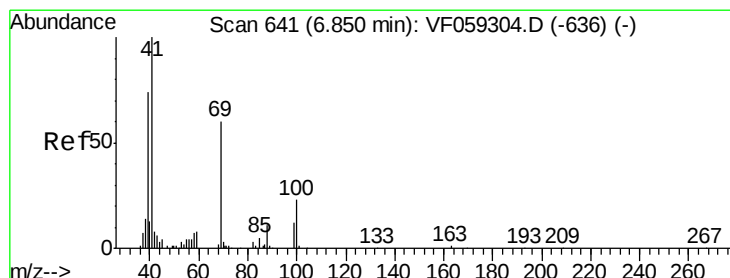
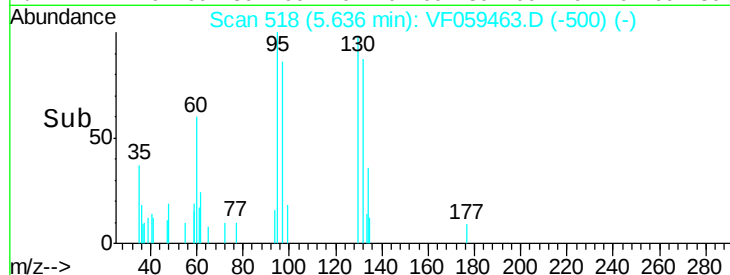
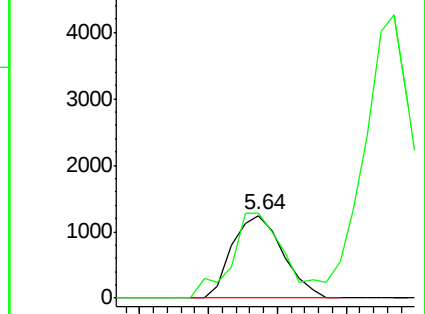
130 100

95 102.6 0.0 202.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.53 min Scan# 609

Delta R.T. -0.32 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

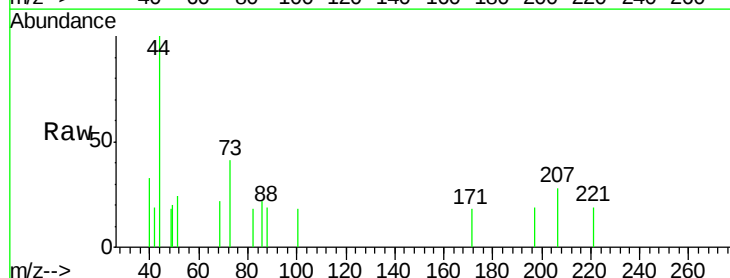
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 0.0 50.6 75.8#

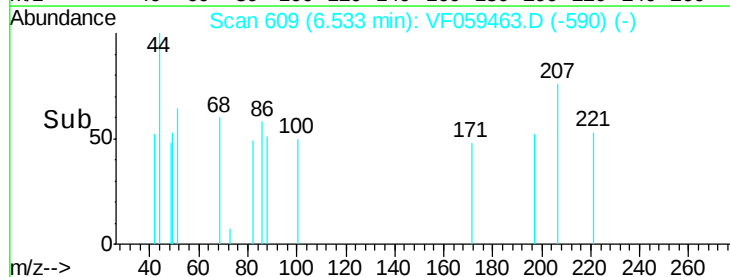
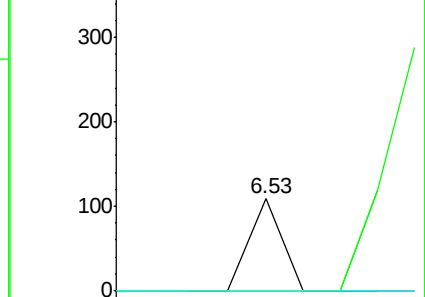
58 0.0 46.6 69.8#

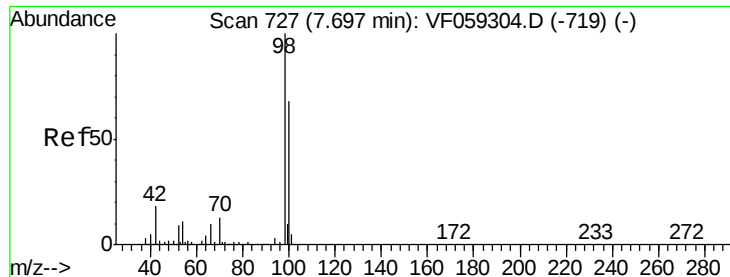


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 51.827 ug/l

RT: 7.68 min Scan# 725

Delta R.T. -0.02 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

Instrument :

MSVOA_F

ClientSampleId :

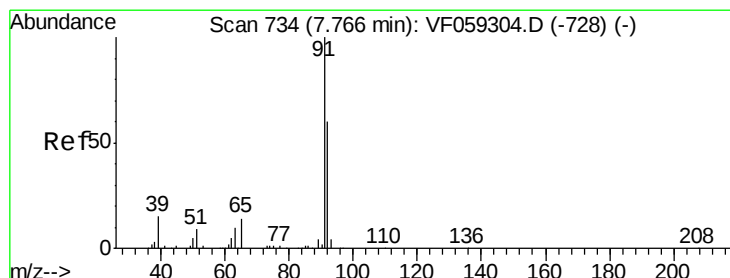
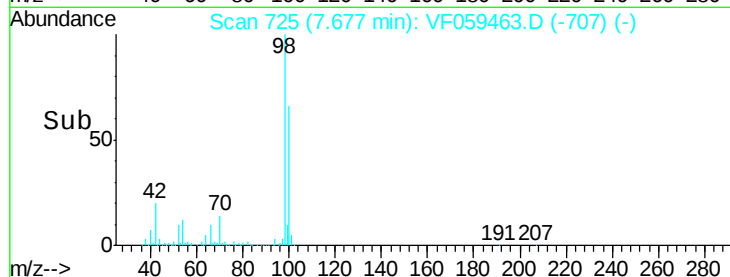
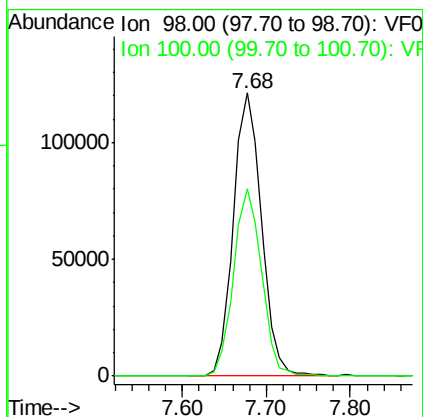
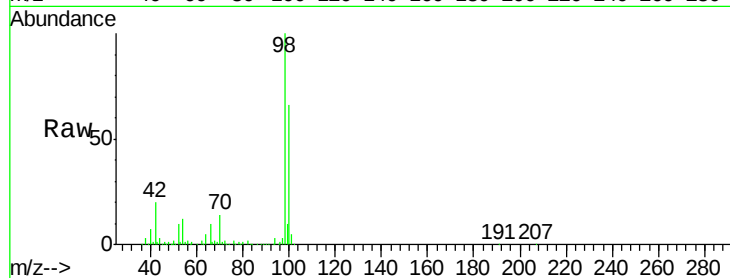
S-9(7.5-8)

Tot Ion: 98 Resp: 283110

Ion Ratio Lower Upper

98 100

100 66.4 54.6 82.0



#58

2-Chloroethyl Vinyl ether

Concen: 2.166 ug/l

RT: 7.75 min Scan# 732

Delta R.T. -0.02 min

Lab File: VF059463.D

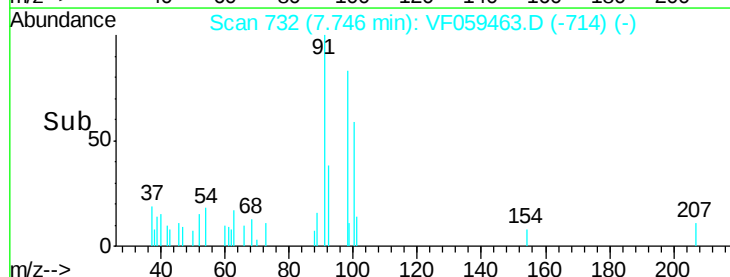
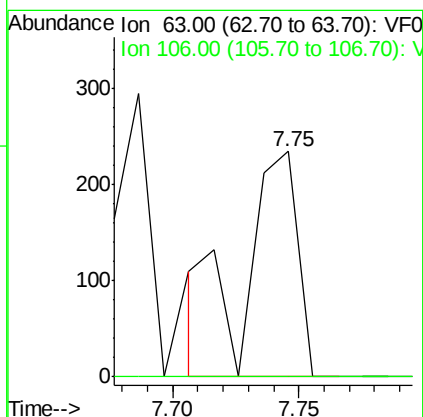
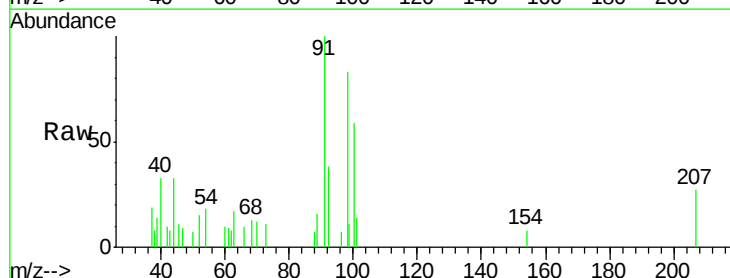
Acq: 6 Jul 2018 21:30

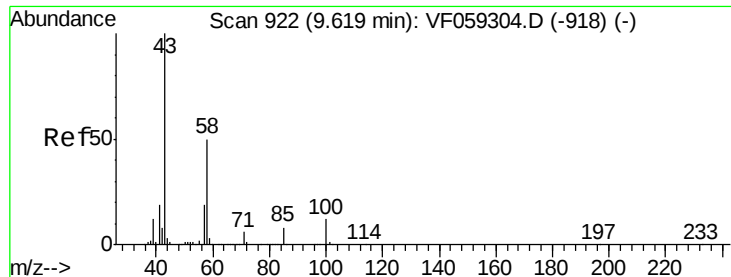
Tgt Ion: 63 Resp: 342

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

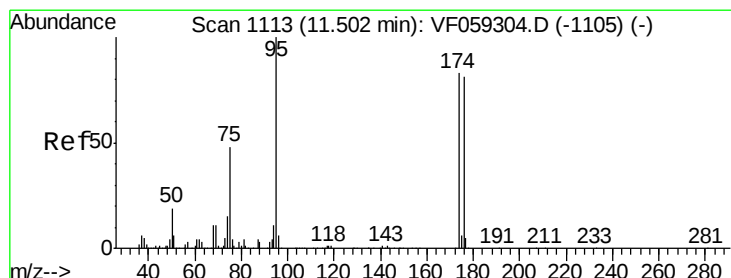
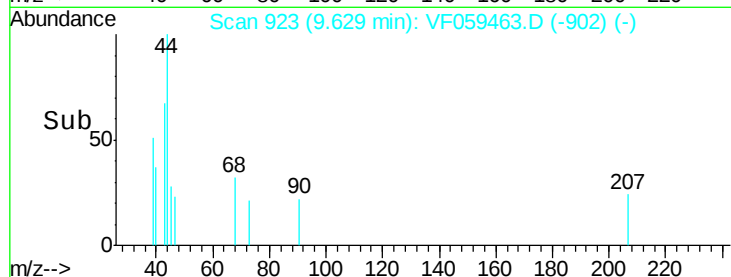
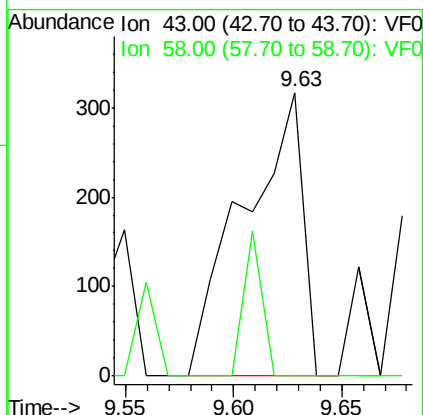
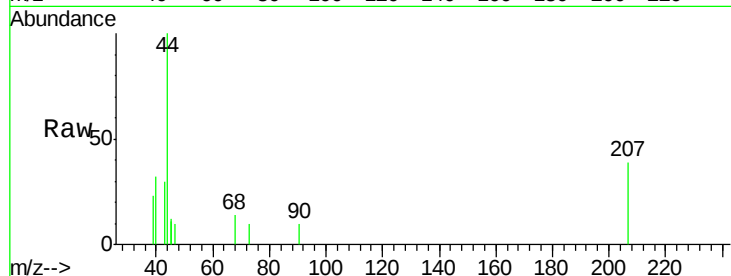




#59
2-Hexanone
Concen: Below Cal
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

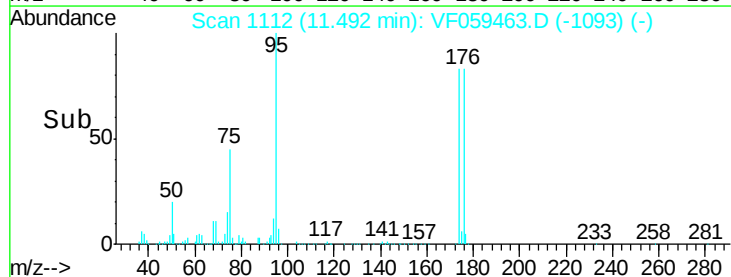
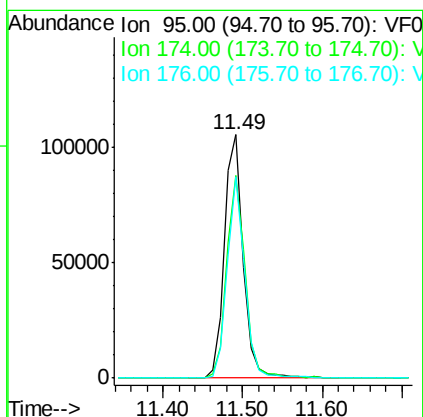
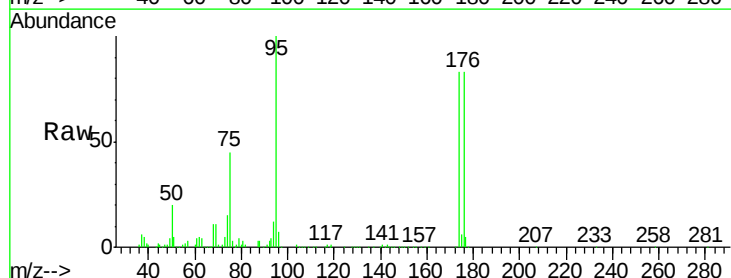
Instrument :
MSVOA_F
ClientSampleId :
S-9(7.5-8)

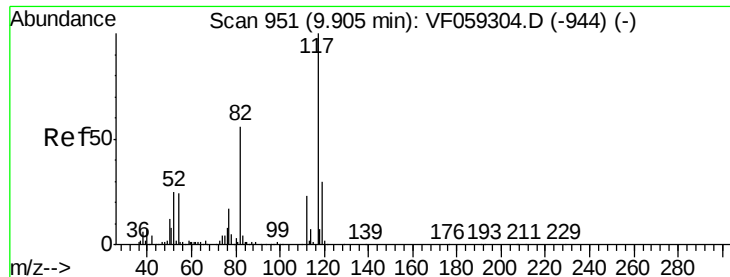
Tot Ion: 43 Resp: 608
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.9#



#62
4-Bromofluorobenzene
Concen: 57.172 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Tgt Ion: 95 Resp: 176170
Ion Ratio Lower Upper
95 100
174 83.4 0.0 165.2
176 82.7 0.0 161.0

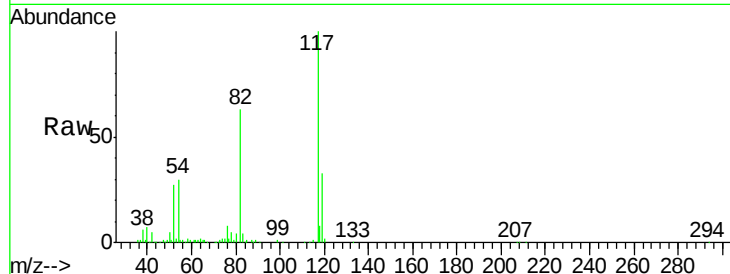




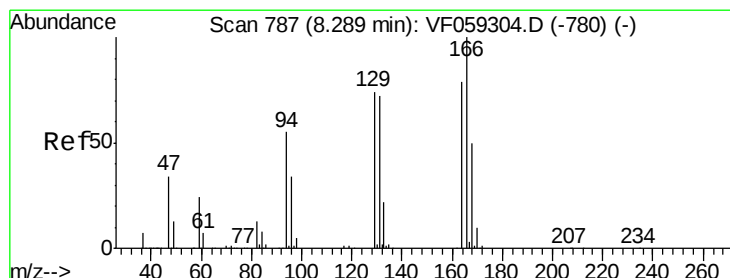
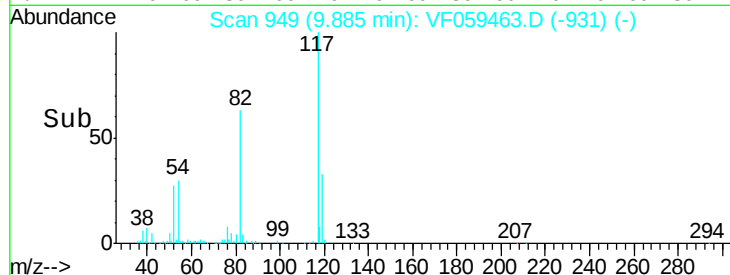
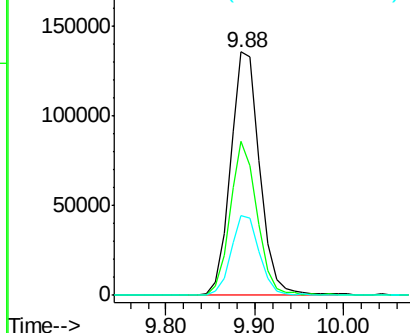
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.88 min Scan# 949
Delta R.T. -0.02 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Instrument :
MSVOA_F
ClientSampleId :
S-9(7.5-8)

Tot Ion:117 Resp: 310862
Ion Ratio Lower Upper
117 100
82 63.2 44.6 66.8
119 32.5 24.1 36.1

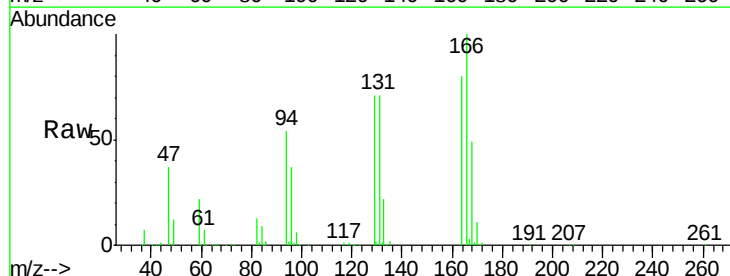


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

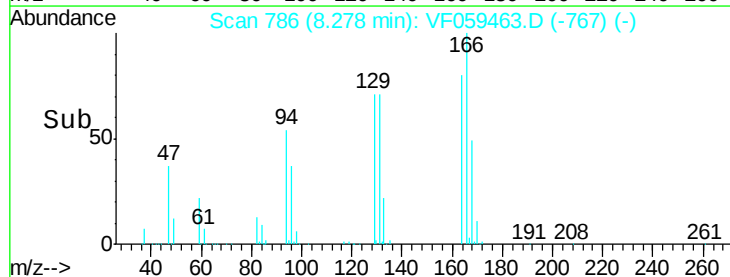
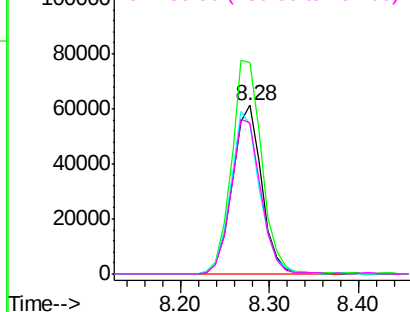


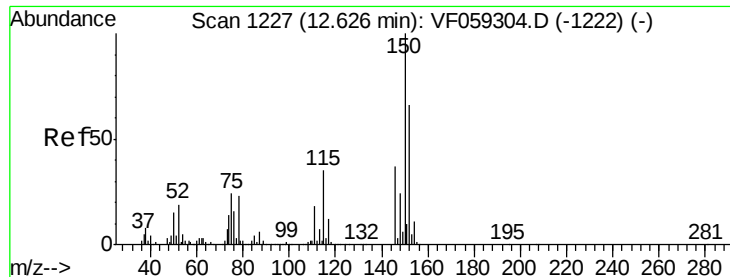
#64
Tetrachloroethene
Concen: 69.903 ug/l
RT: 8.28 min Scan# 786
Delta R.T. -0.01 min
Lab File: VF059463.D
Acq: 6 Jul 2018 21:30

Tgt Ion:164 Resp: 140937
Ion Ratio Lower Upper
164 100
166 125.0 101.1 151.7
129 88.9 75.0 112.4
131 89.4 73.3 109.9



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

Instrument :

MSVOA_F

ClientSampleId :

S-9(7.5-8)

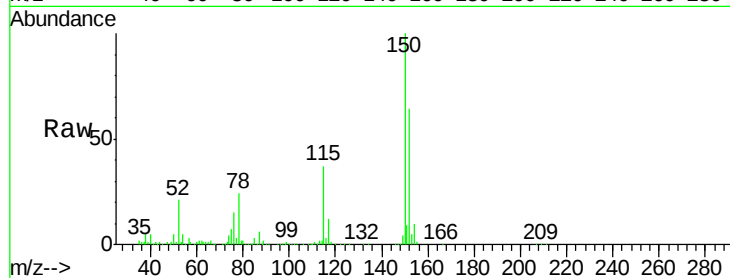
Tot Ion:152 Resp: 200575

Ion Ratio Lower Upper

152 100

115 58.4 27.1 81.3

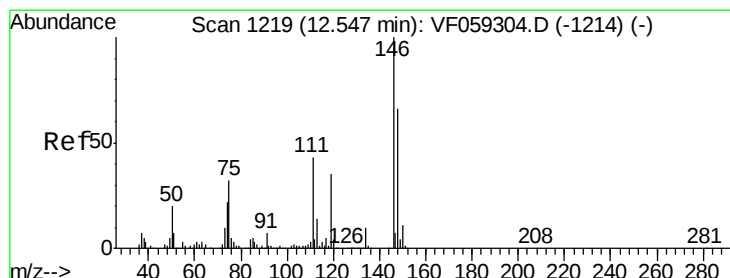
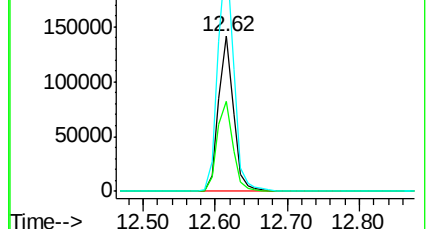
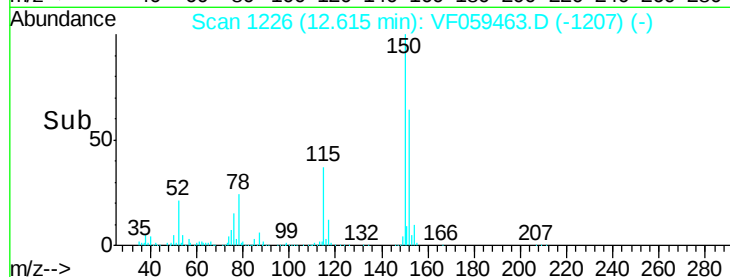
150 157.2 0.0 305.2



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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059463.D

Acq: 6 Jul 2018 21:30

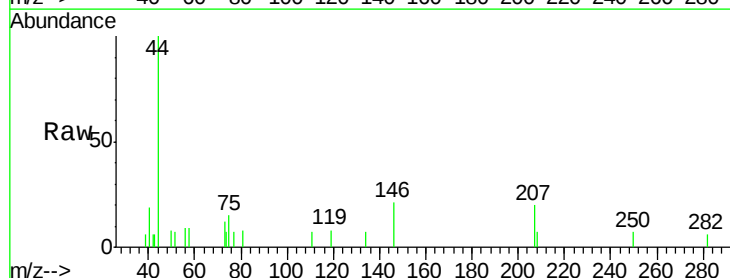
Tgt Ion:146 Resp: 409

Ion Ratio Lower Upper

146 100

111 34.2 21.4 64.2

148 0.0 32.8 98.4#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

