

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061019\
 Data File : VF062910.D
 Acq On : 10 Jun 2019 17:01
 Operator : FY/SY
 Sample : K3273-03RE
 Misc : 5.85g/5mL/MSVOA F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

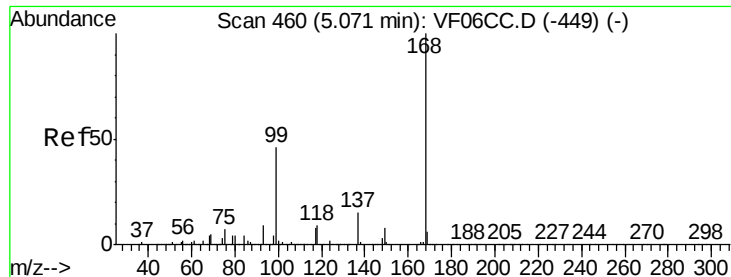
Quant Time: Jun 11 01:19:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	192219	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	286657	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	217985	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	79544	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	45101	33.93	ug/l	-0.02
Spiked Amount			Recovery	=	67.86%	
35) Dibromofluoromethane	4.32	113	92360	42.64	ug/l	-0.02
Spiked Amount			Recovery	=	85.28%	
50) Toluene-d8	7.72	98	216665	39.55	ug/l	-0.02
Spiked Amount			Recovery	=	79.10%	
62) 4-Bromofluorobenzene	11.49	95	68944	34.99	ug/l	-0.02
Spiked Amount			Recovery	=	69.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	891	Below Cal	#	39
5) Bromomethane	1.38	94	4306	3.820	ug/l #	43
6) Chloroethane	1.45	64	842	1.139	ug/l #	60
8) Diethyl Ether	1.63	74	671	1.219	ug/l	82
11) Tert butyl alcohol	2.71	59	993	12.332	ug/l #	1
13) Acrolein	2.10	56	1436	37.692	ug/l	88
15) Acrylonitrile	3.11	53	2064	6.822	ug/l #	66
16) Acetone	2.46	43	609	2.002	ug/l	91
18) Methyl Acetate	2.46	43	609	1.146	ug/l #	47
20) Methylene Chloride	2.38	84	892	Below Cal	#	31
25) 2-Butanone	4.52	43	1146	1.618	ug/l	95
29) Tetrahydrofuran	4.29	42	422	1.557	ug/l #	1
37) Ethyl Acetate	4.31	43	1088	1.079	ug/l #	36
49) 1,4-Dioxane	6.88	88	329	36.344	ug/l #	39
51) 4-Methyl-2-Pentanone	8.43	43	4678	4.917	ug/l #	57
59) 2-Hexanone	9.63	43	4540	6.695	ug/l	81
74) N-amyl acetate	11.44	43	1597	1.021	ug/l	97
76) 1,2,3-Trichloropropane	11.88	75	956	1.217	ug/l	78
92) 1,2-Dibromo-3-Chloropropan	13.69	75	190	1.471	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.01 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

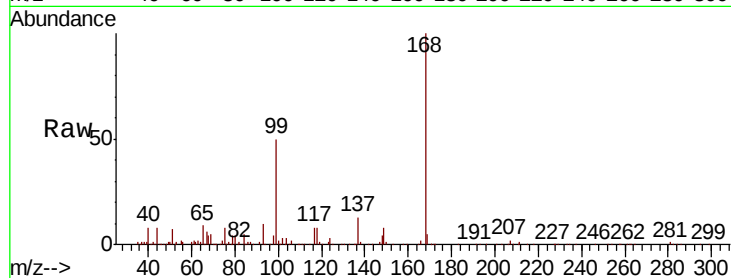
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 192219

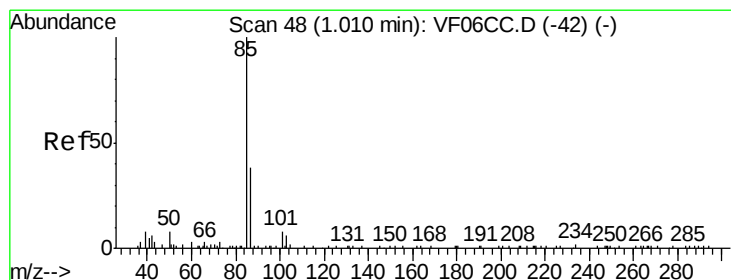
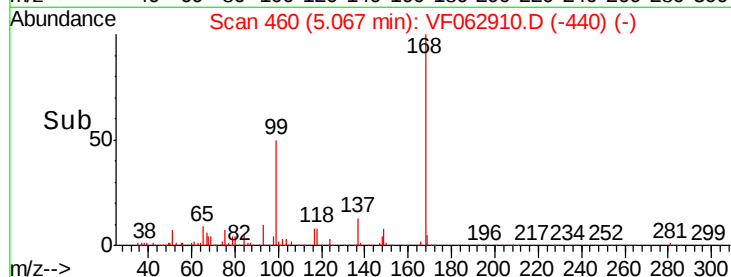
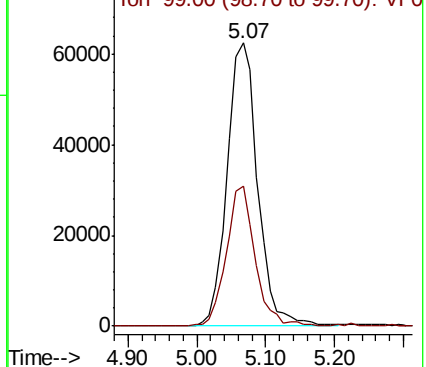
Ion Ratio Lower Upper

168 100

99 49.7 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.01 min Scan# 48

Delta R.T. -0.01 min

Lab File: VF062910.D

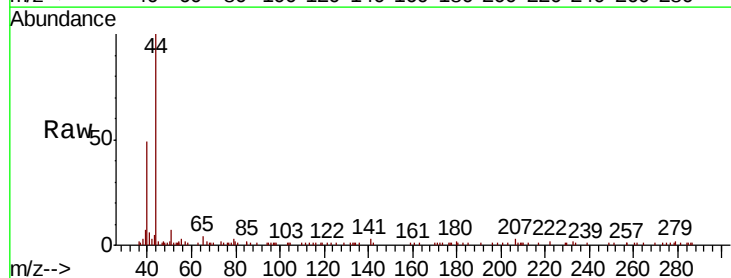
Acq: 10 Jun 2019 17:01

Tgt Ion: 85 Resp: 891

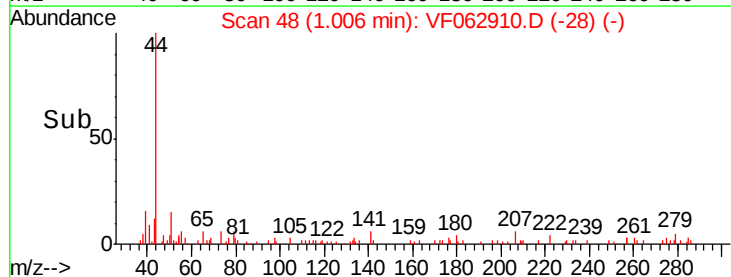
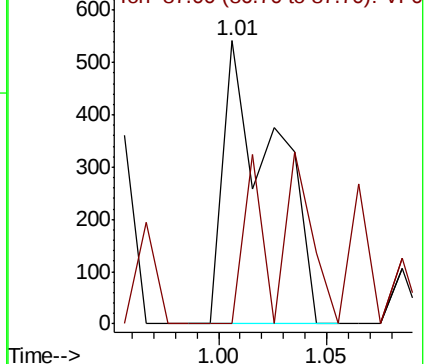
Ion Ratio Lower Upper

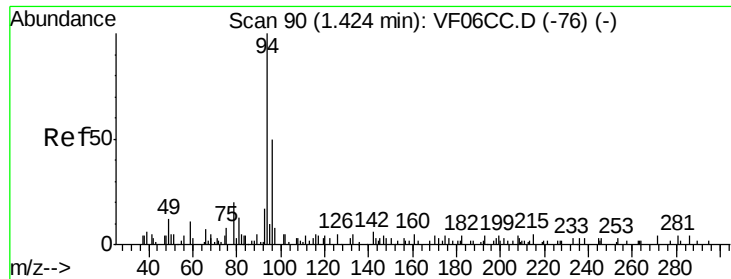
85 100

87 0.0 17.6 52.9#



Abundance Ion 85.00 (84.70 to 85.70): VF0





#5

Bromomethane

Concen: 3.820 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.03 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

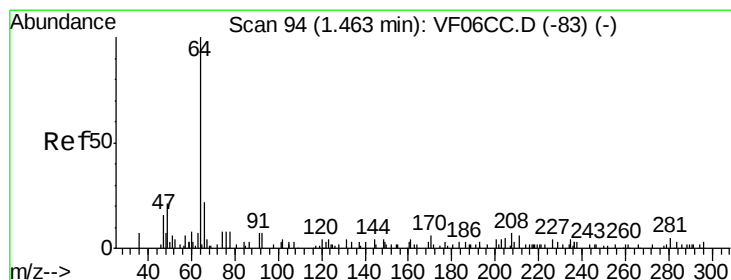
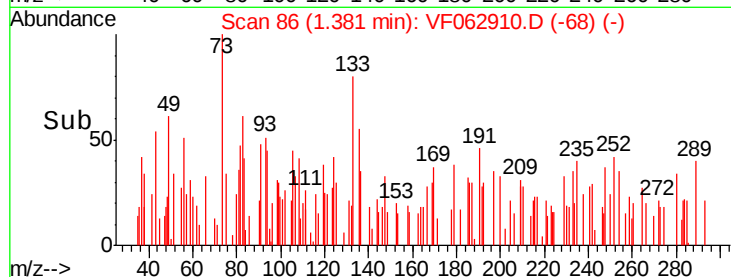
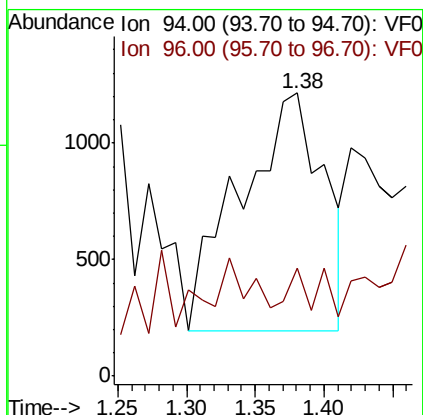
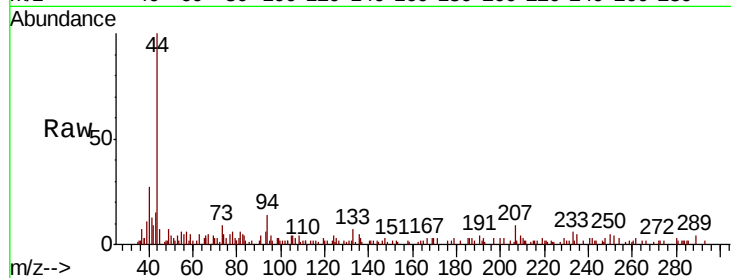
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 4306

Ion Ratio Lower Upper

94 100

96 38.1 73.8 110.6#



#6

Chloroethane

Concen: 1.139 ug/l

RT: 1.45 min Scan# 93

Delta R.T. -0.02 min

Lab File: VF062910.D

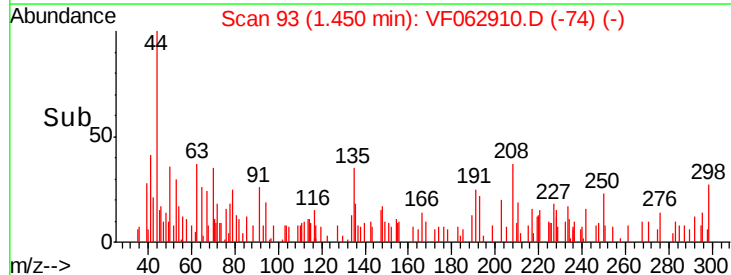
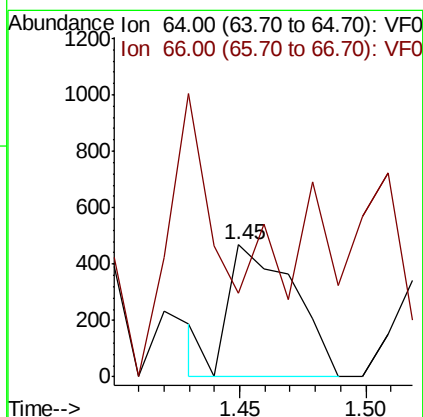
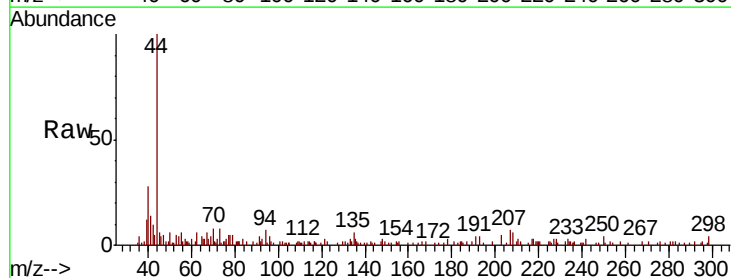
Acq: 10 Jun 2019 17:01

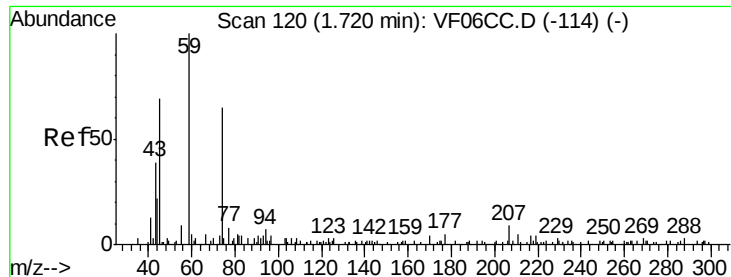
Tgt Ion: 64 Resp: 842

Ion Ratio Lower Upper

64 100

66 62.9 31.0 46.4#

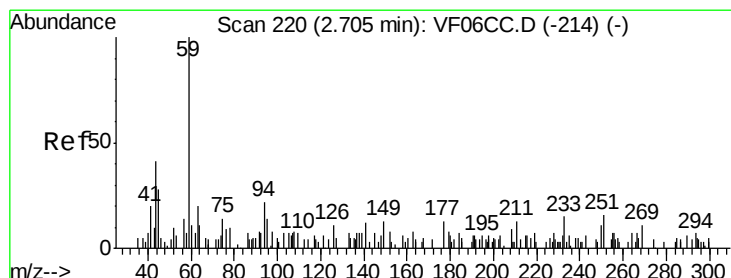
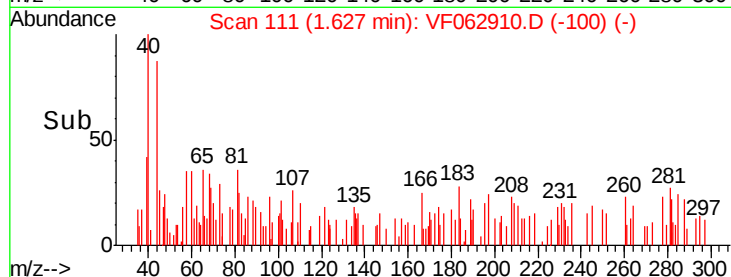
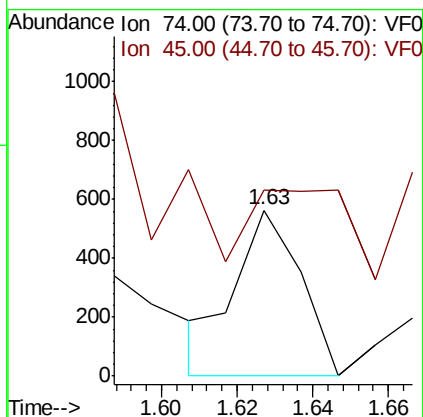
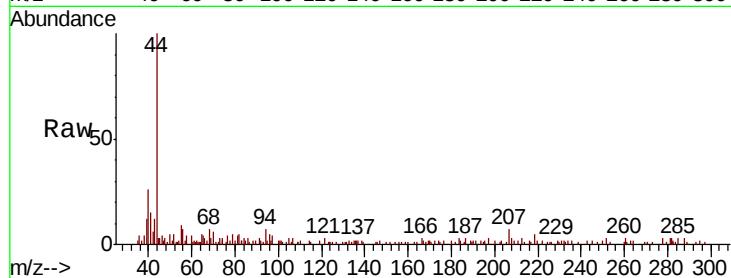




#8
Diethyl Ether
Concen: 1.219 ug/l
RT: 1.63 min Scan# 111
Delta R.T. -0.09 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

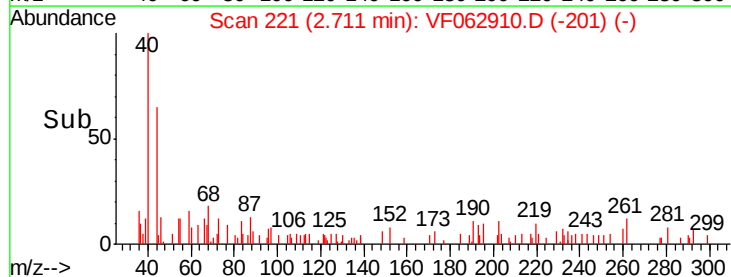
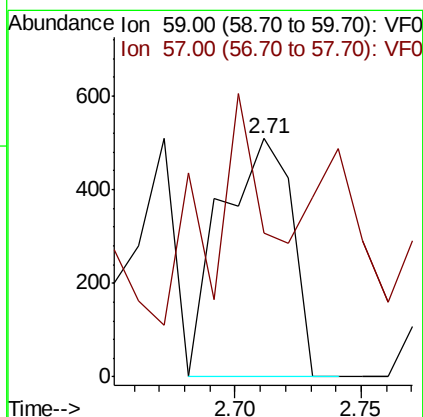
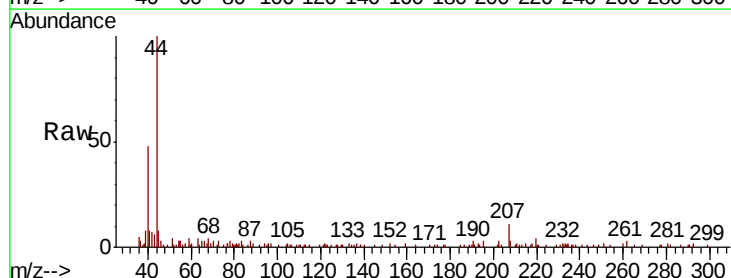
Instrument :
MSVOA_F
ClientSampled :

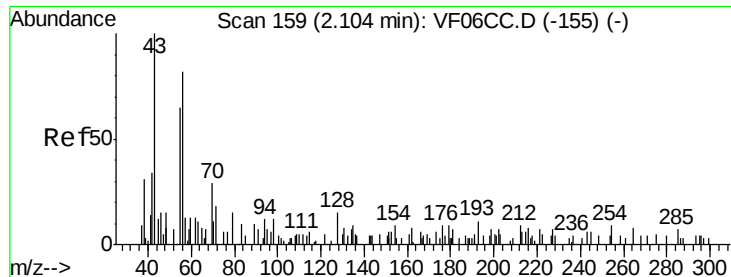
Tot Ion: 74 Resp: 671
Ion Ratio Lower Upper
74 100
45 112.1 47.5 142.5



#11
Tert butyl alcohol
Concen: 12.332 ug/l
RT: 2.71 min Scan# 221
Delta R.T. -0.01 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

Tgt Ion: 59 Resp: 993
Ion Ratio Lower Upper
59 100
57 60.4 9.2 13.8#

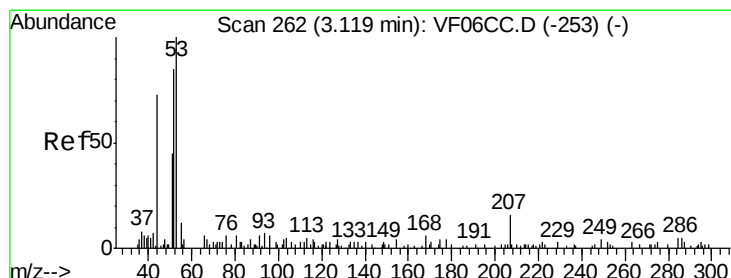
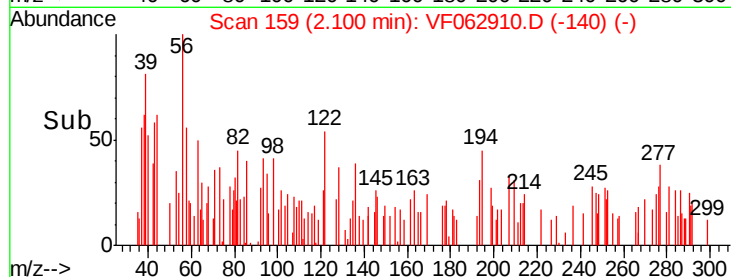
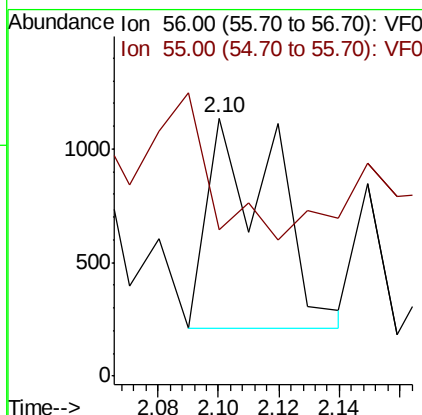
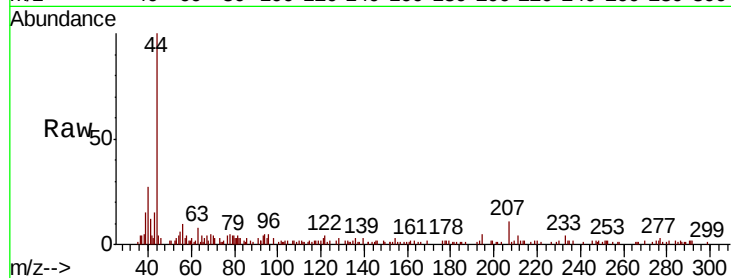




#13
Acrolein
Concen: 37.692 ug/l
RT: 2.10 min Scan# 159
Delta R.T. -0.01 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

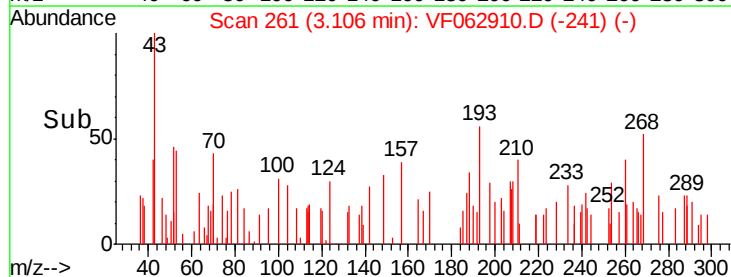
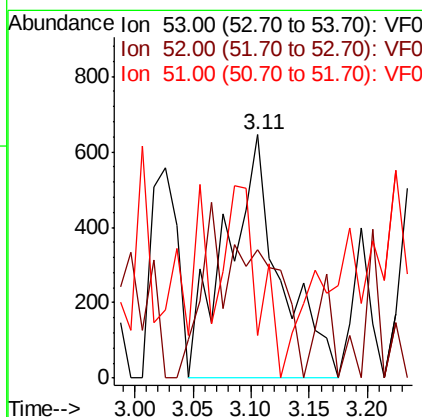
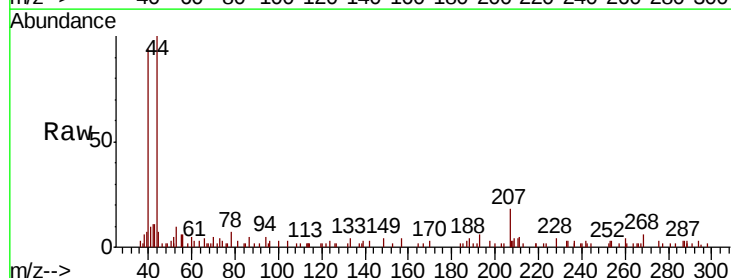
Instrument :
MSVOA_F
ClientSampleId :

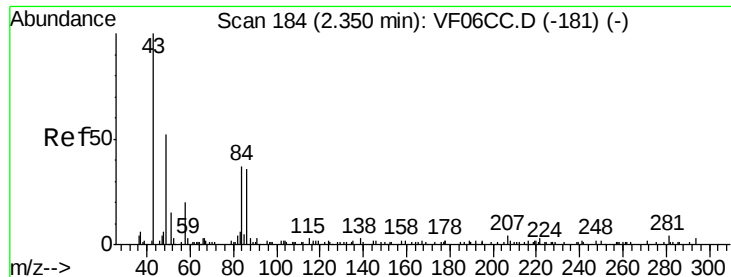
Tot Ion: 56 Resp: 1436
Ion Ratio Lower Upper
56 100
55 56.8 52.9 79.3



#15
Acrylonitrile
Concen: 6.822 ug/l
RT: 3.11 min Scan# 261
Delta R.T. -0.01 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

Tgt Ion: 53 Resp: 2064
Ion Ratio Lower Upper
53 100
52 52.9 68.1 102.1#
51 17.6 27.7 41.5#





#16

Acetone

Concen: 2.002 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.10 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

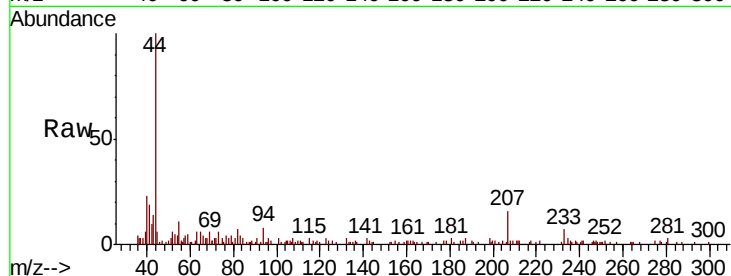
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 609

Ion Ratio Lower Upper

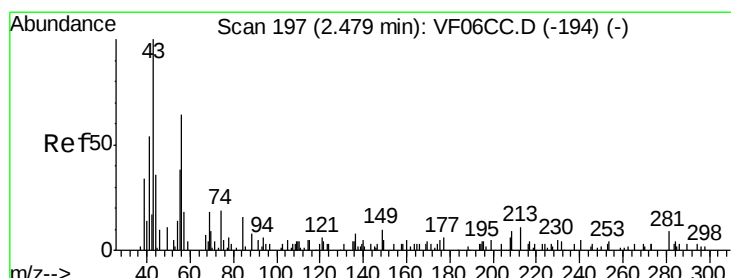
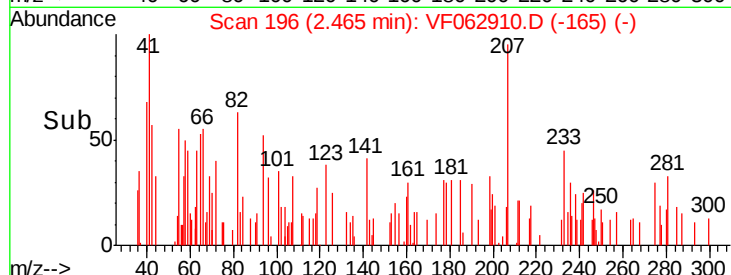
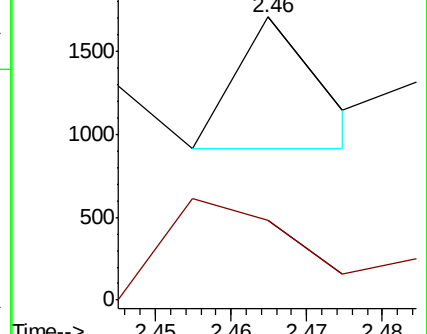
43 100

58 28.2 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 1.146 ug/l

RT: 2.46 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF062910.D

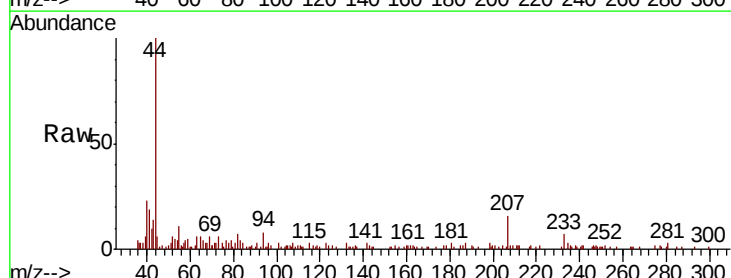
Acq: 10 Jun 2019 17:01

Tgt Ion: 43 Resp: 609

Ion Ratio Lower Upper

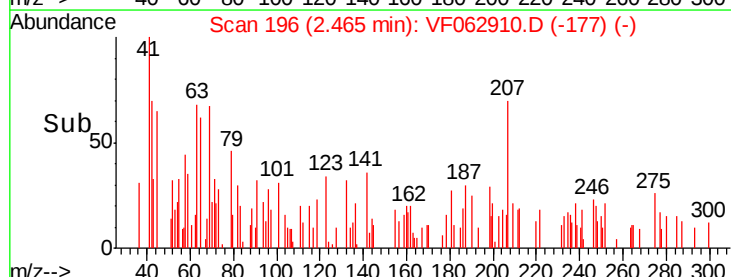
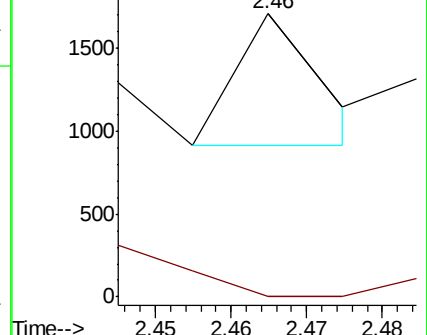
43 100

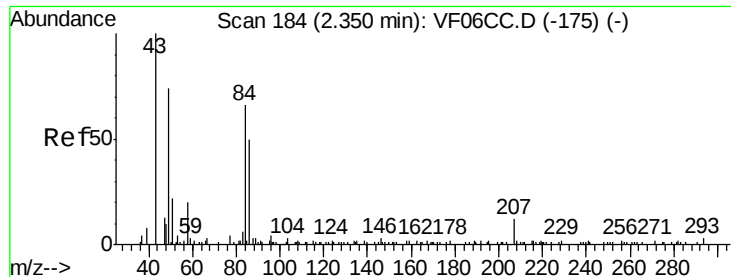
74 0.0 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

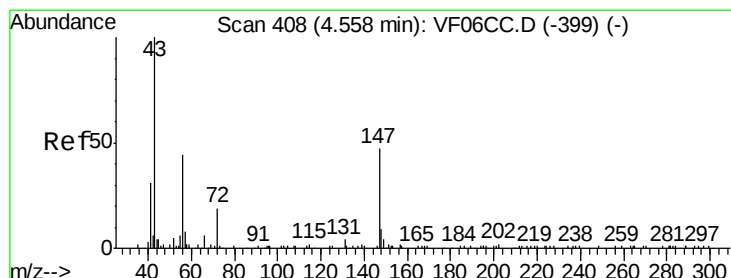
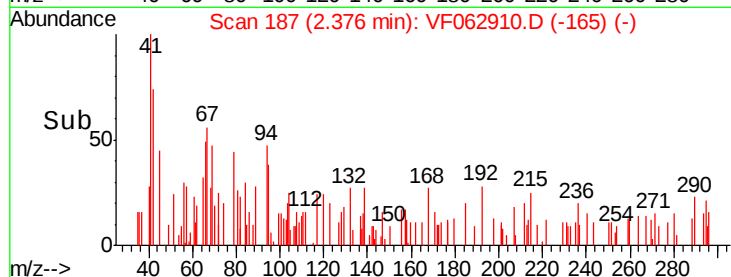
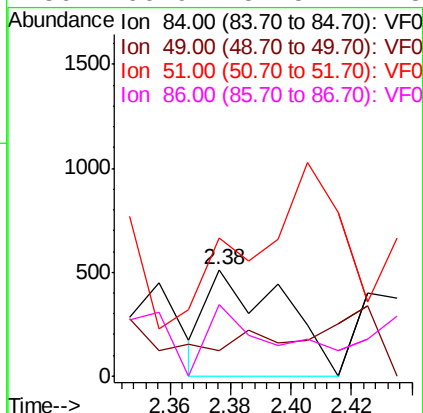
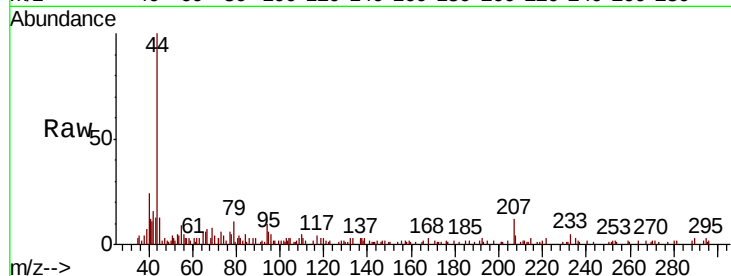




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.38 min Scan# 187
Delta R.T. 0.01 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

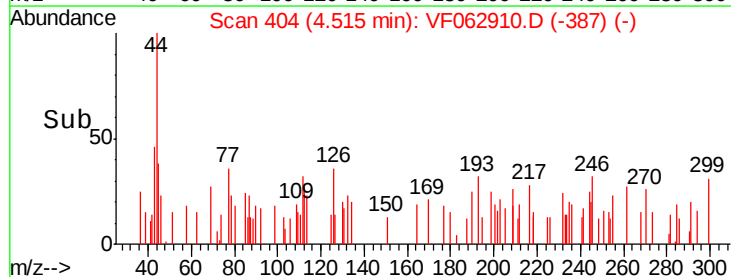
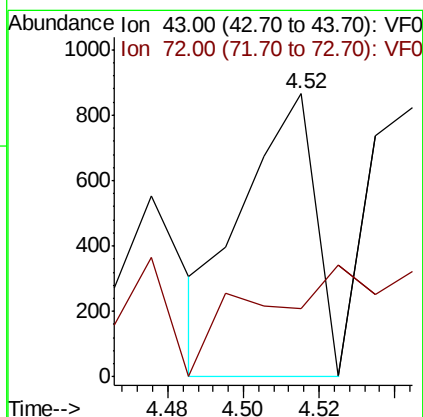
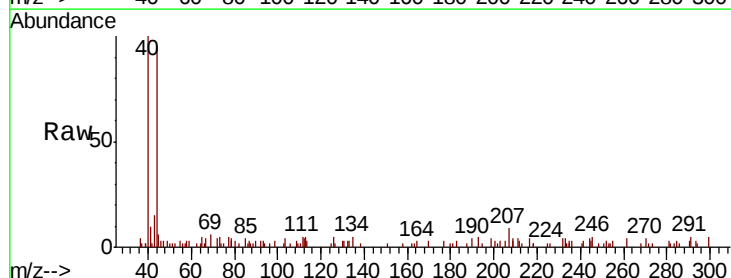
Instrument :
MSVOA_F
ClientSampled :

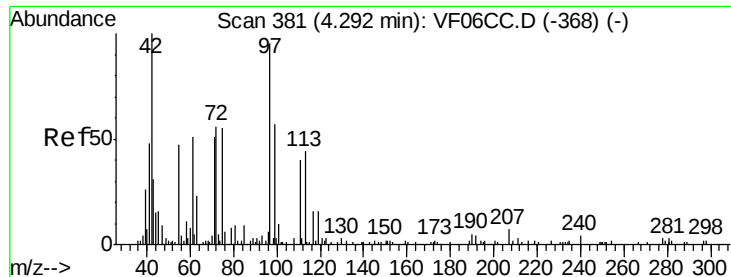
Tot Ion:	84	Resp:	892
Ion	Ratio	Lower	Upper
84	100		
49	24.0	82.6	123.8#
51	129.4	25.0	37.4#
86	66.9	51.5	77.3



#25
2-Butanone
Concen: 1.618 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.04 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

Tgt Ion:	43	Resp:	1146
Ion	Ratio	Lower	Upper
43	100		
72	24.0	21.4	32.0





#29

Tetrahydrofuran

Concen: 1.557 ug/l

RT: 4.29 min Scan# 381

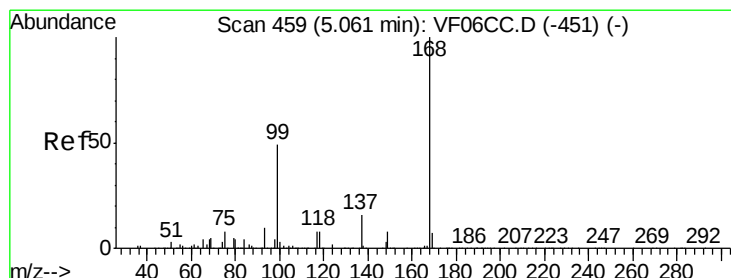
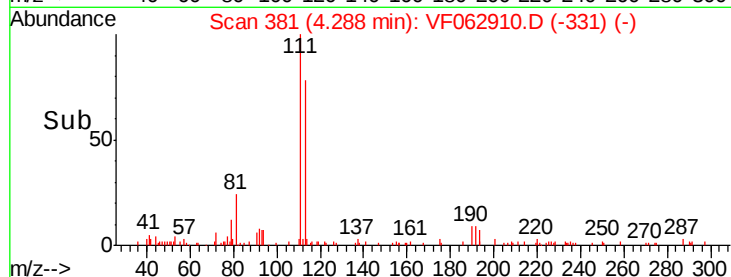
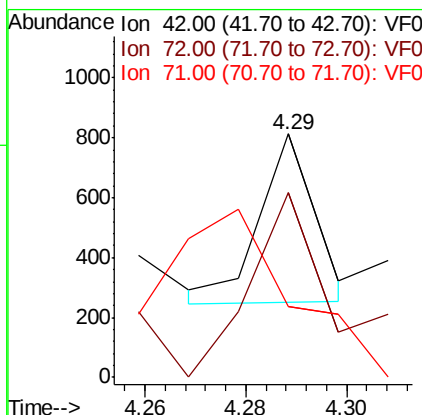
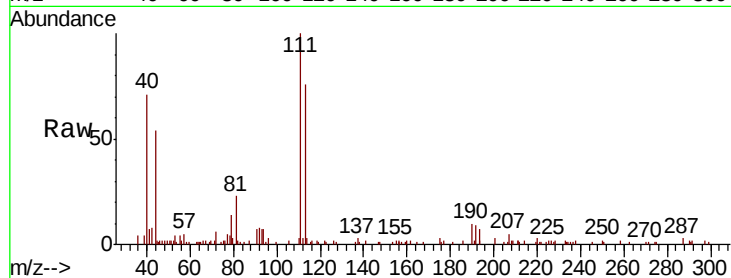
Delta R.T. -0.01 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	42	Resp:	422
Ion	Ratio	Lower	Upper
42	100		
72	168.2	39.0	58.6#
71	311.1	36.9	55.3#



#33

1,2-Dichloroethane-d4

Concen: 33.931 ug/l

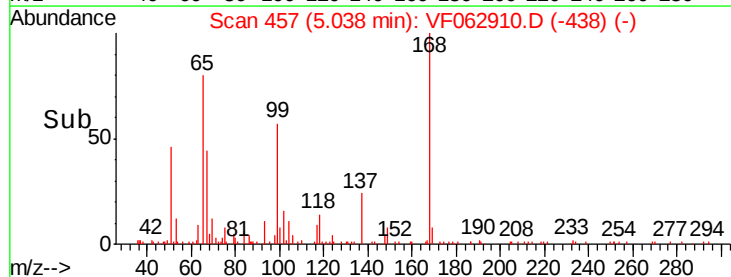
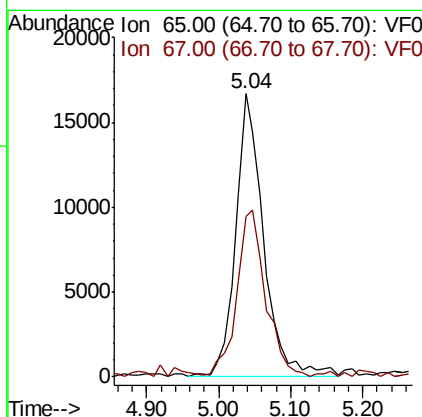
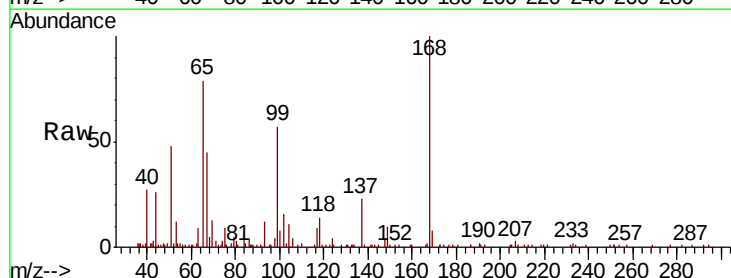
RT: 5.04 min Scan# 457

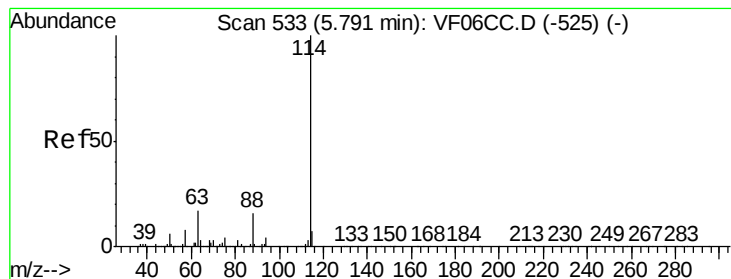
Delta R.T. -0.02 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

Tgt Ion:	65	Resp:	45101
Ion	Ratio	Lower	Upper
65	100		
67	56.7	0.0	121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. -0.02 min

Lab File: VF062910.D

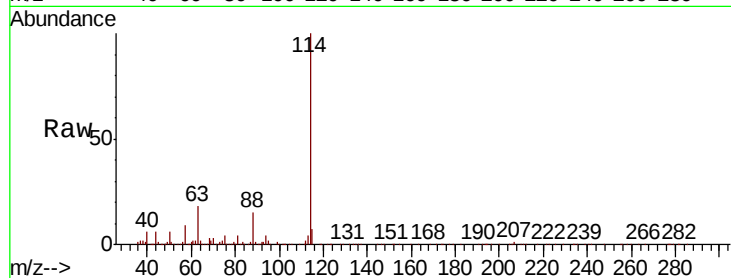
Acq: 10 Jun 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

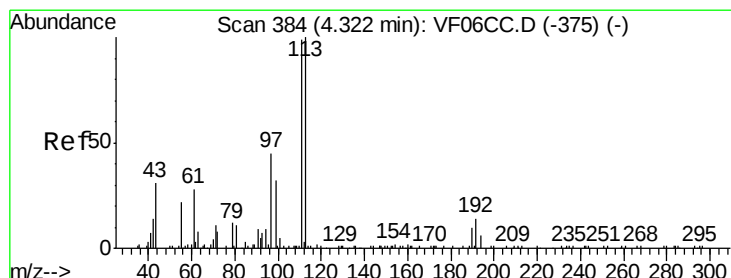
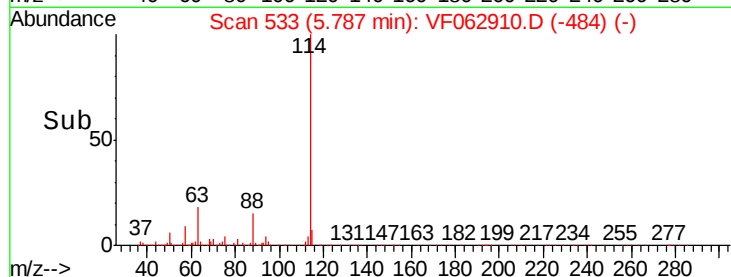
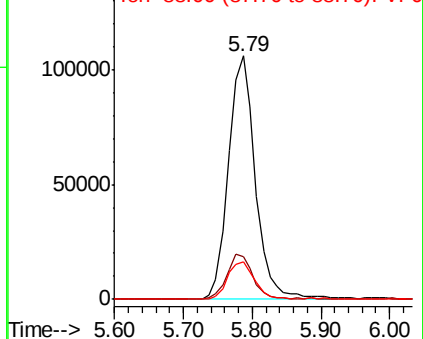
Tot Ion:	114	Resp:	286657
Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	34.2
88	15.5	0.0	31.2



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: 42.638 ug/l

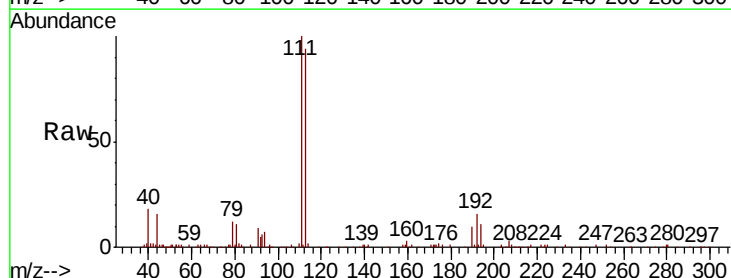
RT: 4.32 min Scan# 384

Delta R.T. -0.02 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

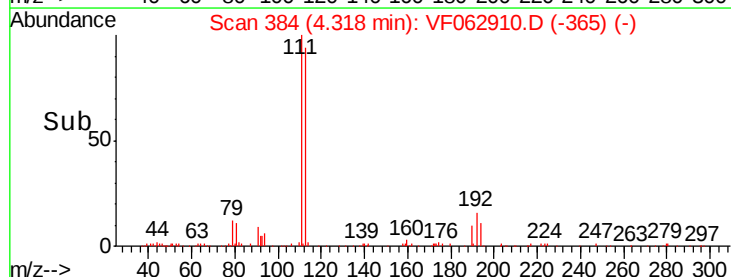
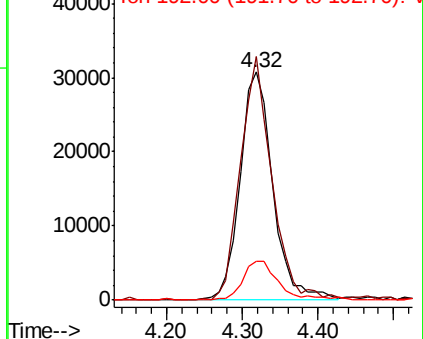
Tgt Ion:	113	Resp:	92360
Ion	Ratio	Lower	Upper
113	100		
111	106.8	81.9	122.9
192	17.0	15.1	22.7

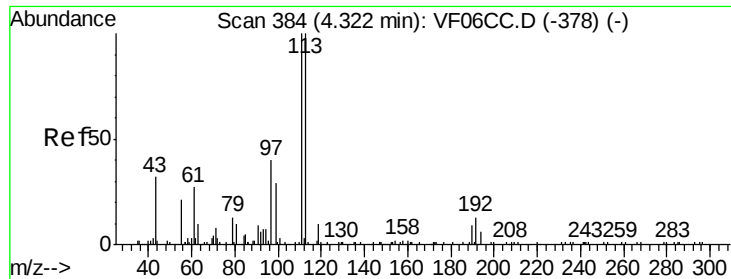


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 1.079 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.03 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

Instrument :
MSVOA_F
ClientSampled :

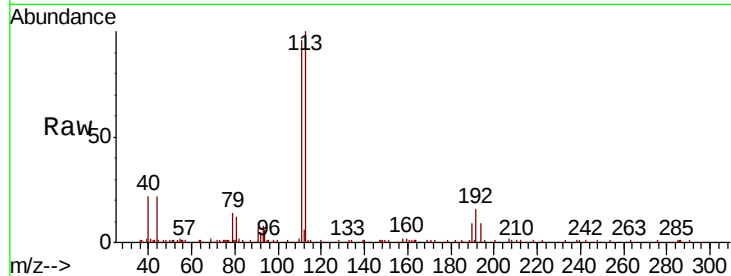
Tot Ion: 43 Resp: 1088

Ion Ratio Lower Upper

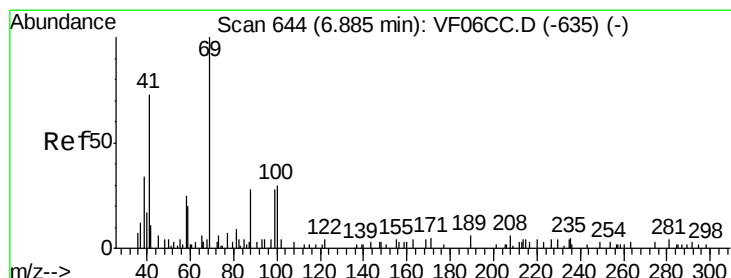
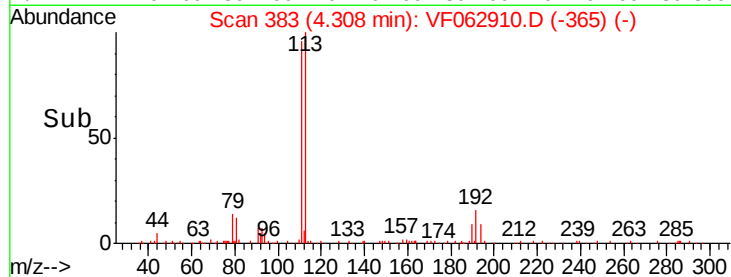
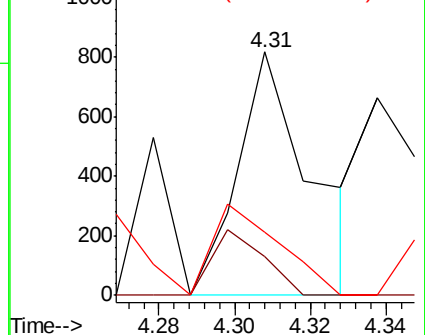
43 100

61 15.9 59.1 88.7#

70 26.0 10.1 15.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#49

1,4-Dioxane

Concen: 36.344 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

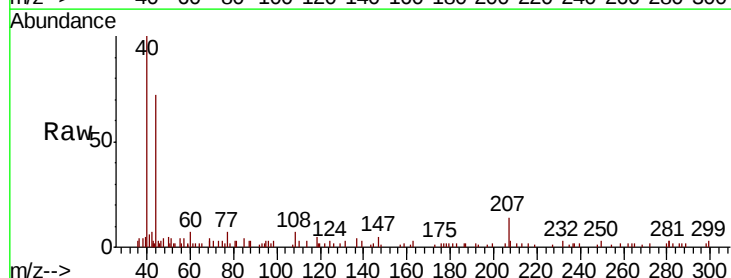
Tgt Ion: 88 Resp: 329

Ion Ratio Lower Upper

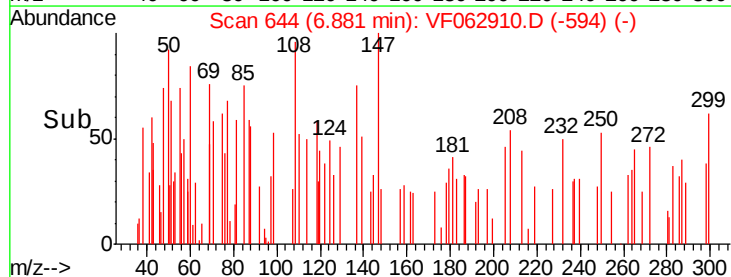
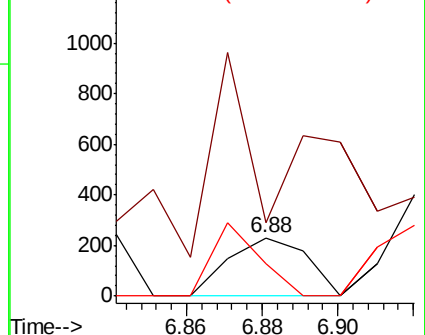
88 100

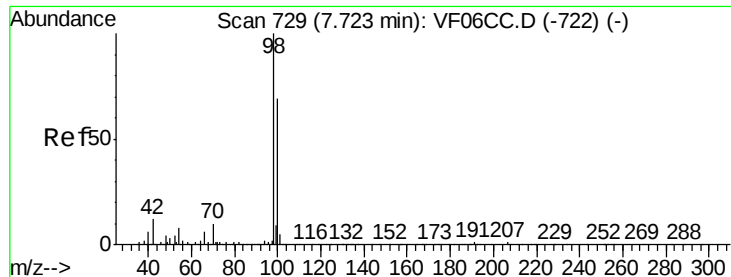
43 125.5 34.8 52.2#

58 55.8 59.9 89.9#



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: 39.554 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.02 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

Instrument :

MSVOA_F

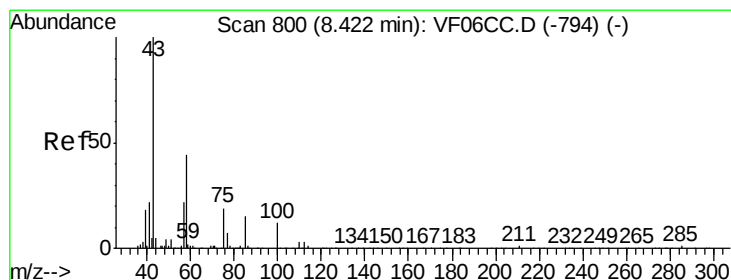
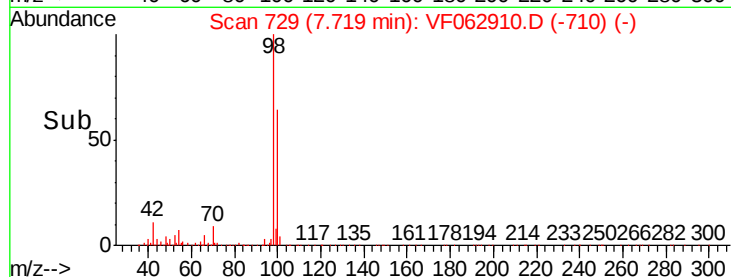
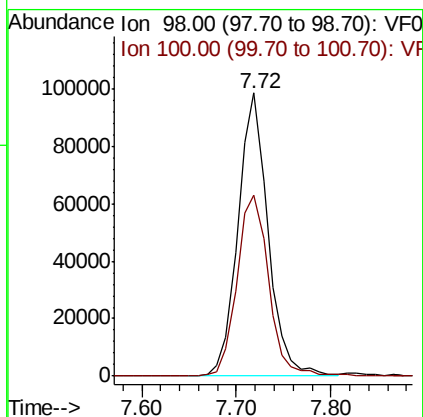
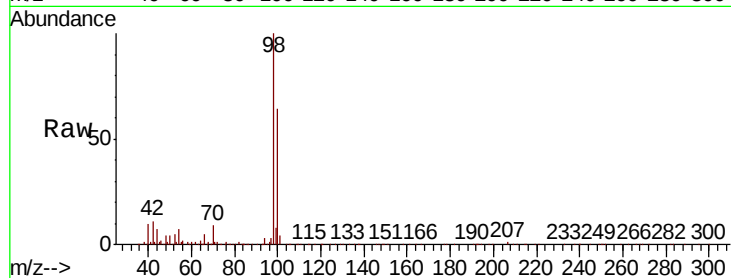
ClientSampleId :

Tot Ion: 98 Resp: 216665

Ion Ratio Lower Upper

98 100

100 64.0 59.8 89.8



#51

4-Methyl-2-Pentanone

Concen: 4.917 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.00 min

Lab File: VF062910.D

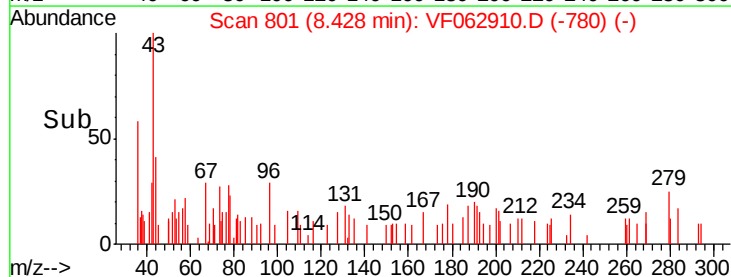
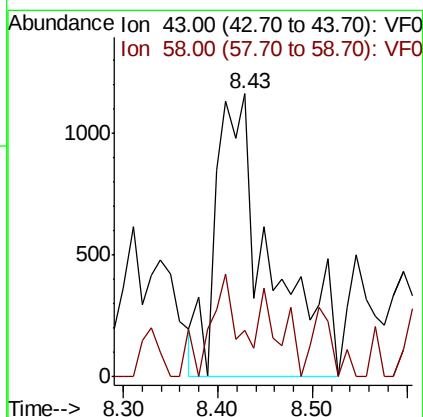
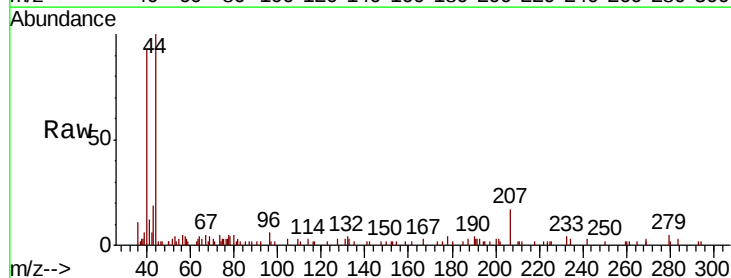
Acq: 10 Jun 2019 17:01

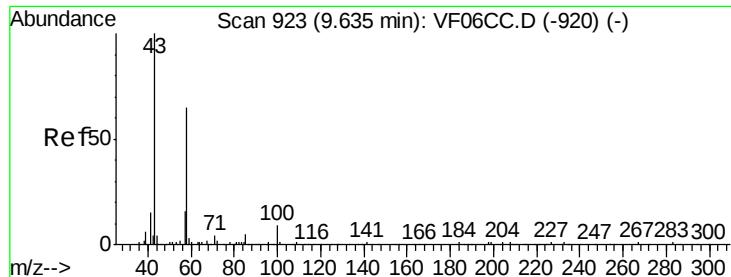
Tgt Ion: 43 Resp: 4678

Ion Ratio Lower Upper

43 100

58 16.4 35.5 53.3#

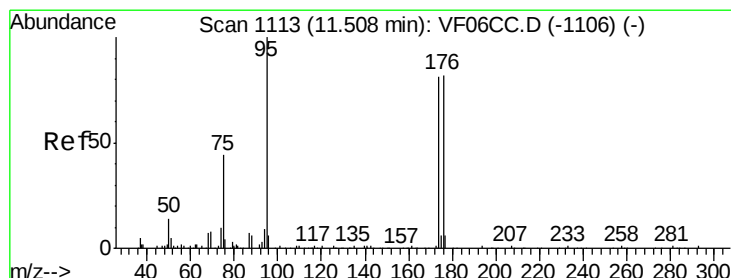
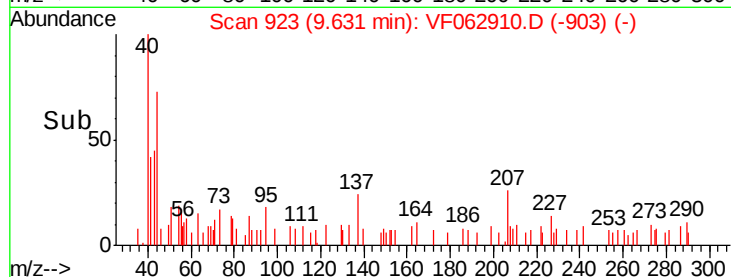
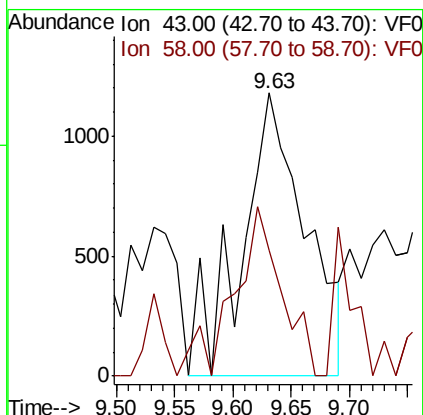
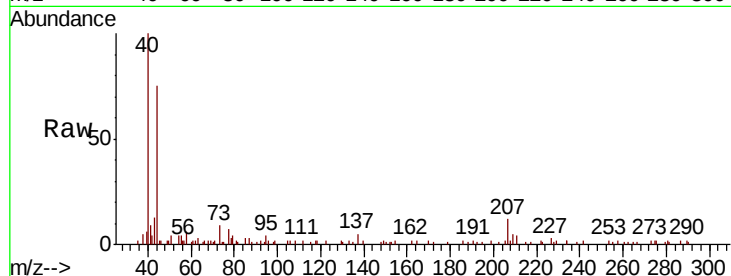




#59
2-Hexanone
Concen: 6.695 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

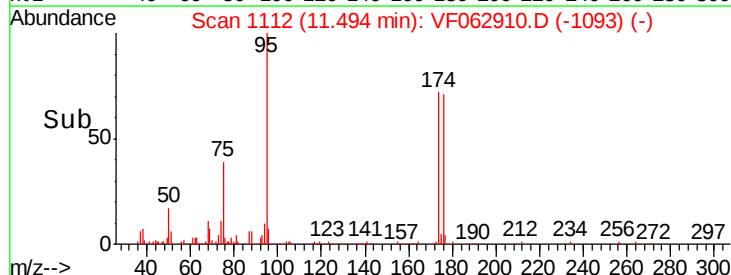
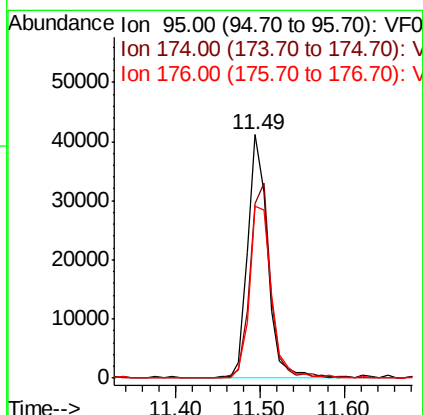
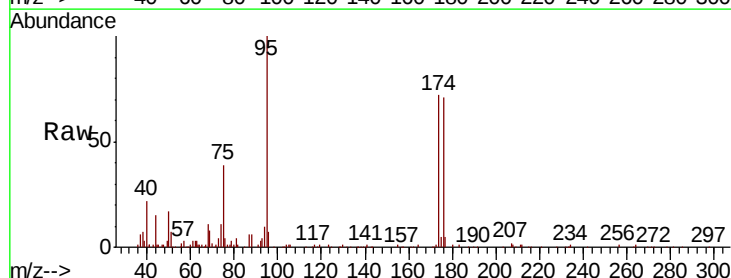
Instrument :
MSVOA_F
ClientSampleId :

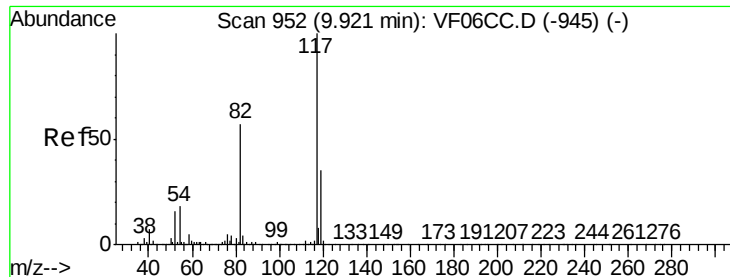
Tot Ion: 43 Resp: 4540
Ion Ratio Lower Upper
43 100
58 44.4 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 34.990 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.02 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

Tgt Ion: 95 Resp: 68944
Ion Ratio Lower Upper
95 100
174 71.9 0.0 170.6
176 70.9 0.0 170.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. -0.02 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

Instrument :
MSVOA_F
ClientSampleId :

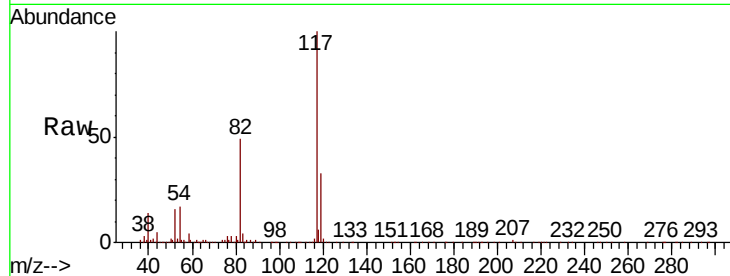
Tot Ion:117 Resp: 217985

Ion Ratio Lower Upper

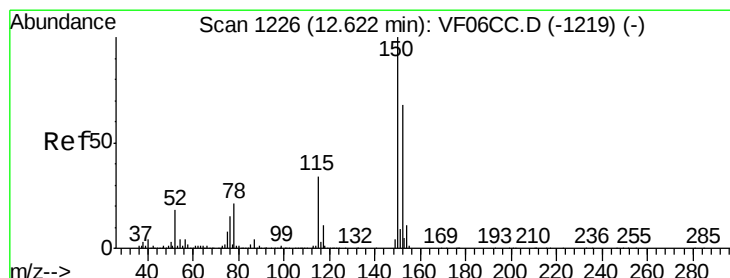
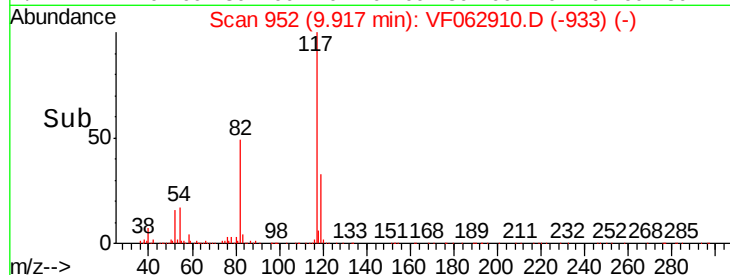
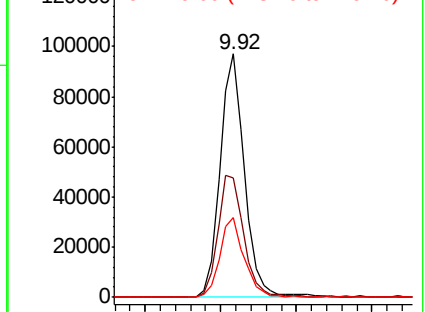
117 100

82 49.0 42.4 63.6

119 32.6 27.1 40.7



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. -0.01 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

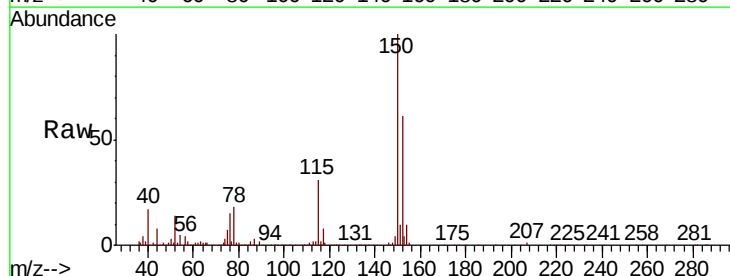
Tgt Ion:152 Resp: 79544

Ion Ratio Lower Upper

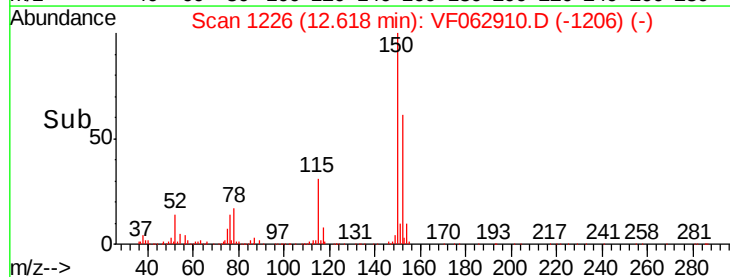
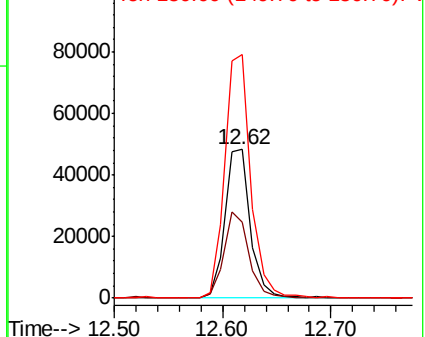
152 100

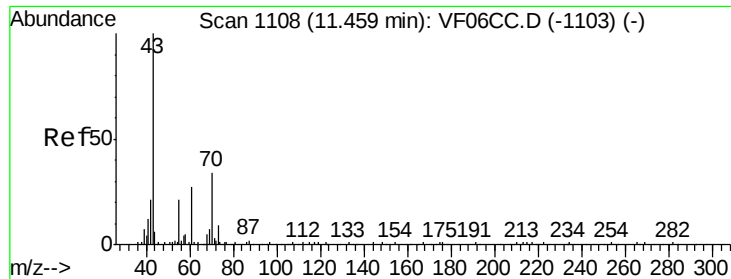
115 50.9 24.6 74.0

150 163.6 0.0 290.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V

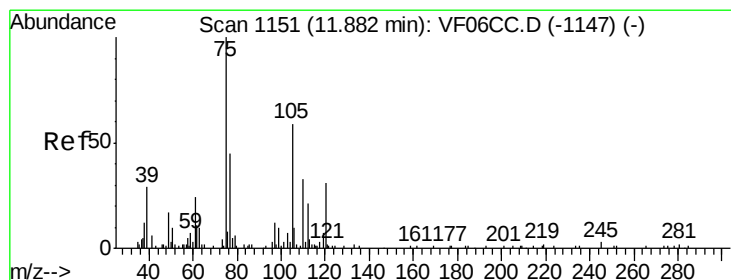
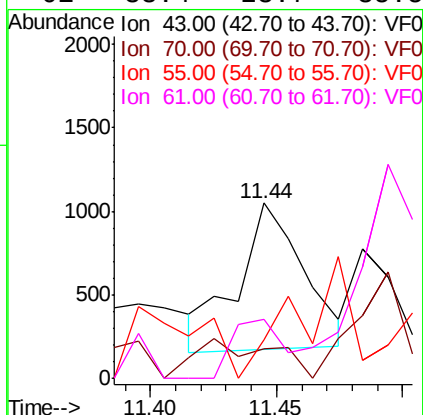
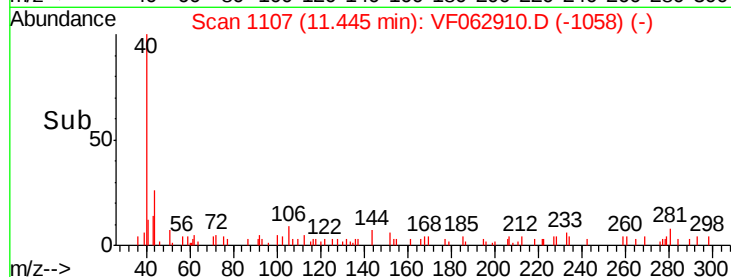
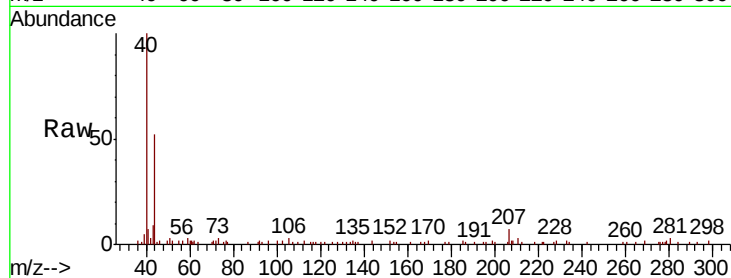




#74
N-amvl acetate
Concen: 1.021 ug/l
RT: 11.44 min Scan# 1107
Delta R.T. -0.02 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

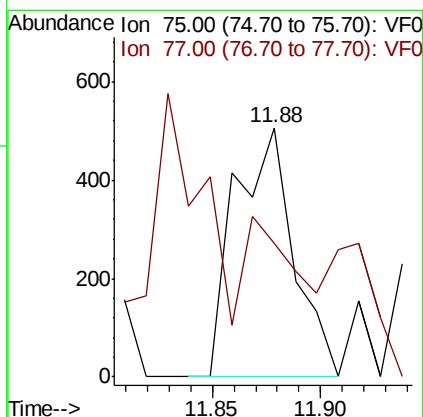
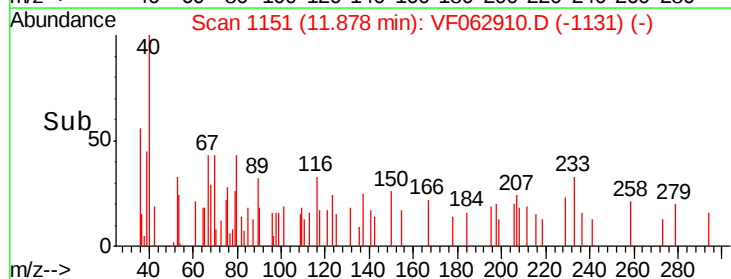
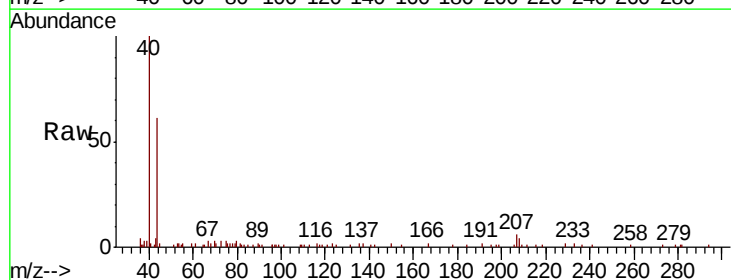
Instrument :
MSVOA_F
ClientSampleId :

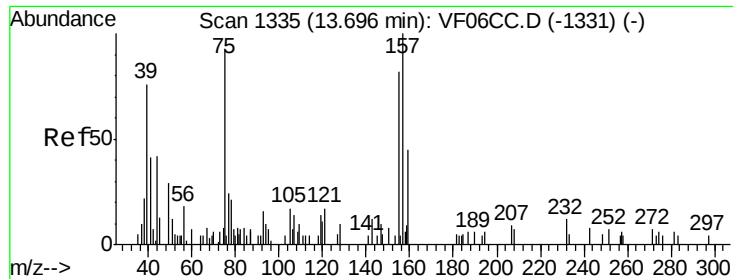
Tot Ion:	43	Resp:	1597
Ion	Ratio	Lower	Upper
43	100		
70	41.7	32.9	49.3
55	21.9	17.3	25.9
61	33.4	23.7	35.5



#76
1,2,3-Trichloropropane
Concen: 1.217 ug/l
RT: 11.88 min Scan# 1151
Delta R.T. -0.01 min
Lab File: VF062910.D
Acq: 10 Jun 2019 17:01

Tgt Ion:	75	Resp:	956
Ion	Ratio	Lower	Upper
75	100		
77	53.6	20.1	60.2





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.471 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VF062910.D

Acq: 10 Jun 2019 17:01

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 75 Resp: 190

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.1#

157 0.0 66.8 200.6#

