

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF061219\
 Data File : VF062932.D
 Acq On : 12 Jun 2019 17:21
 Operator : FY/SY
 Sample : K3282-01RE
 Misc : 5.37g/5mL/MSVOA F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 13 08:31:43 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	5.06	168	110742	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.78	114	167704	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	146099	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	48847	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	34701	45.31	ug/l	-0.01
Spiked Amount			Recovery	=	90.62%	
35) Dibromofluoromethane	4.32	113	68837	54.32	ug/l	-0.01
Spiked Amount			Recovery	=	108.64%	
50) Toluene-d8	7.71	98	144969	45.24	ug/l	-0.02
Spiked Amount			Recovery	=	90.48%	
62) 4-Bromofluorobenzene	11.50	95	48827	42.36	ug/l	-0.01
Spiked Amount			Recovery	=	84.72%	

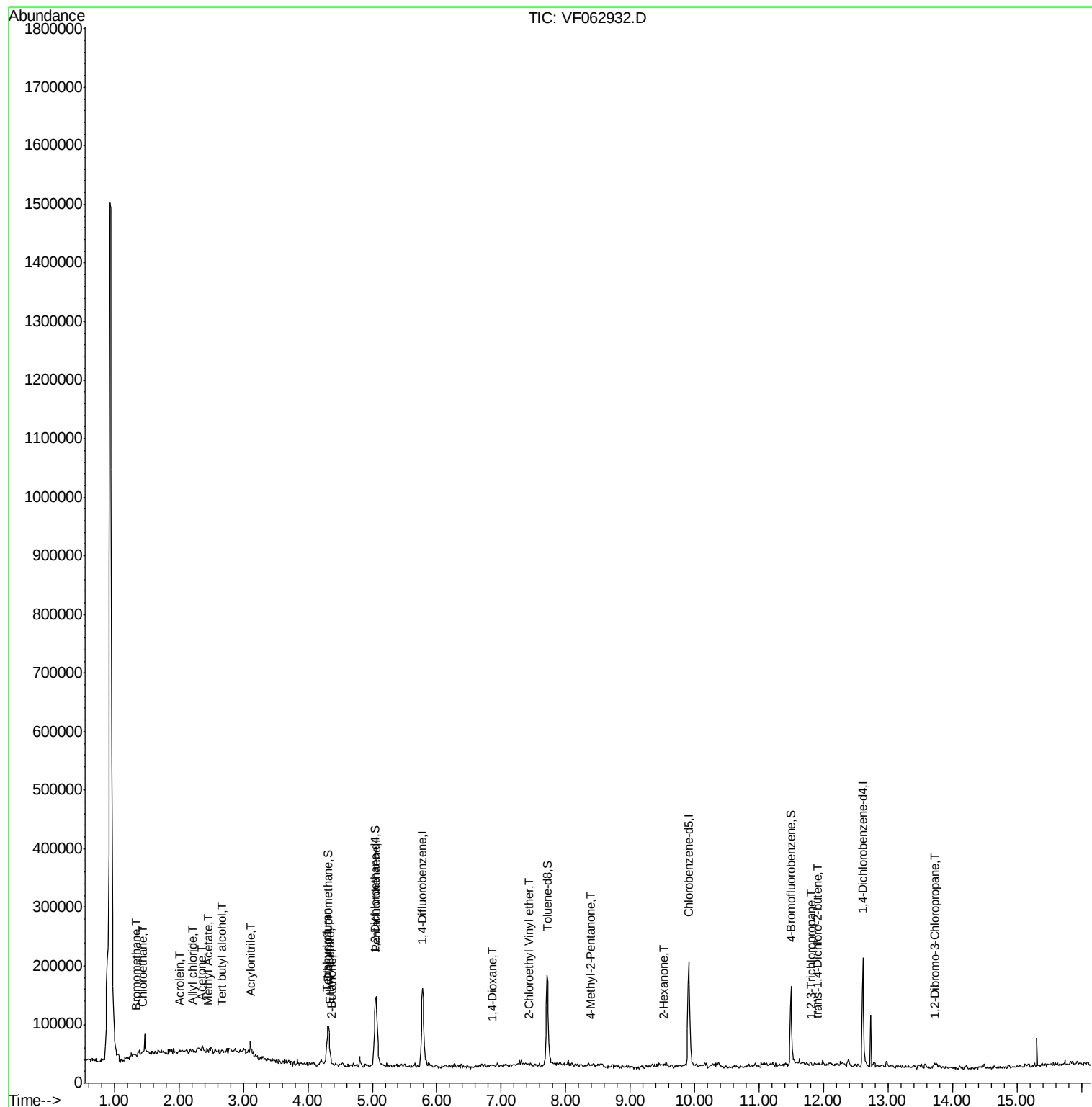
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.02	85	522	Below Cal	#	39
5) Bromomethane	1.34	94	1187	1.828	ug/l #	49
6) Chloroethane	1.45	64	720	1.691	ug/l #	83
11) Tert butyl alcohol	2.68	59	1394	30.049	ug/l #	1
13) Acrolein	2.02	56	1559	78.509	ug/l	88
14) Allyl chloride	2.22	41	2295	3.215	ug/l #	27
15) Acrylonitrile	3.11	53	973	5.582	ug/l #	51
16) Acetone	2.35	43	10699	61.042	ug/l	96
18) Methyl Acetate	2.46	43	1065	3.477	ug/l #	75
20) Methylene Chloride	2.40	84	543	Below Cal	#	47
25) 2-Butanone	4.38	43	589	1.443	ug/l	93
29) Tetrahydrofuran	4.29	42	1801	11.537	ug/l #	29
37) Ethyl Acetate	4.35	43	1526	2.586	ug/l #	39
49) 1,4-Dioxane	6.87	88	119	22.470	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	2786	5.005	ug/l #	75
58) 2-Chloroethyl Vinyl ether	7.44	63	284	1.048	ug/l #	51
59) 2-Hexanone	9.53	43	783	1.974	ug/l	91
76) 1,2,3-Trichloropropane	11.82	75	684	1.418	ug/l	88
81) trans-1,4-Dichloro-2-buten	11.90	75	300	1.469	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	13.71	75	177	2.232	ug/l #	1

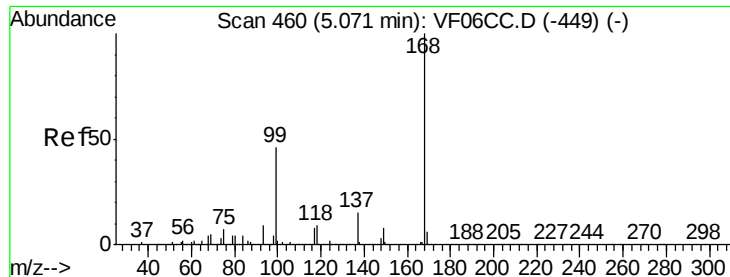
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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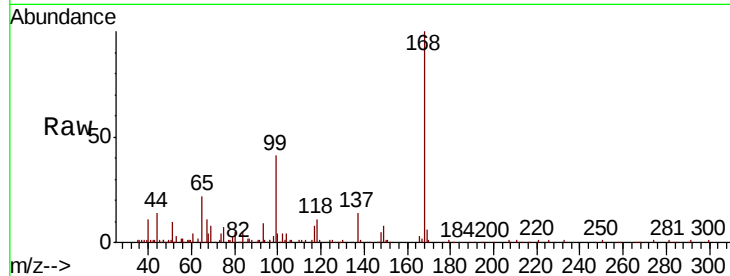


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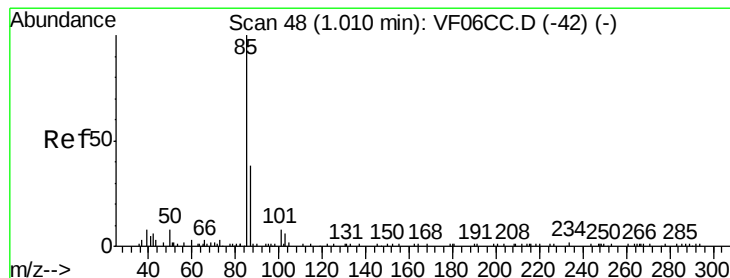
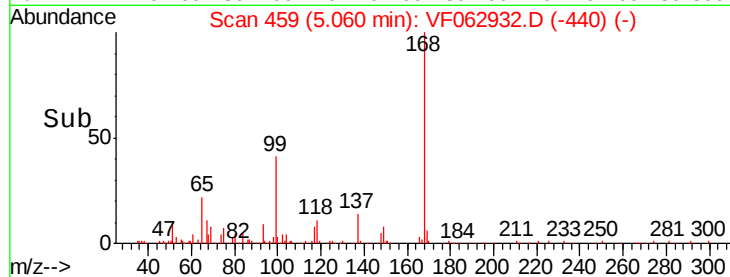
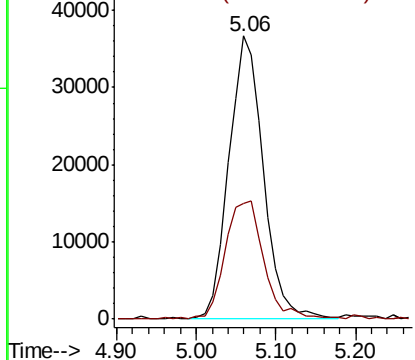
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.06 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: VF062932.D
 Acq: 12 Jun 2019 17:21

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:168 Resp: 110742
 Ion Ratio Lower Upper
 168 100
 99 40.9 39.1 58.7



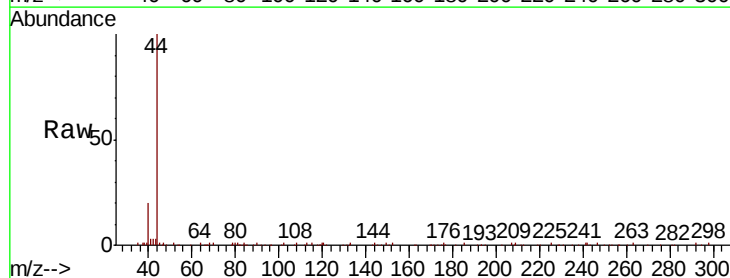
Abundance Ion 168.00 (167.70 to 168.70): VF0
 Ion 99.00 (98.70 to 99.70): VF0



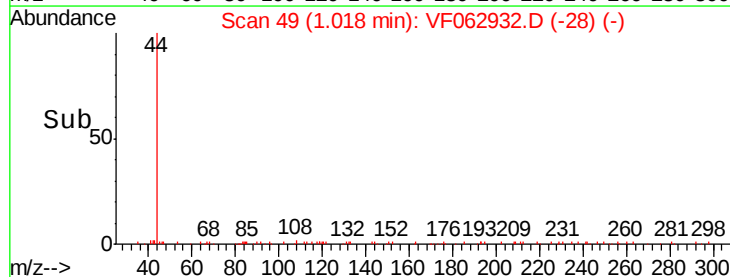
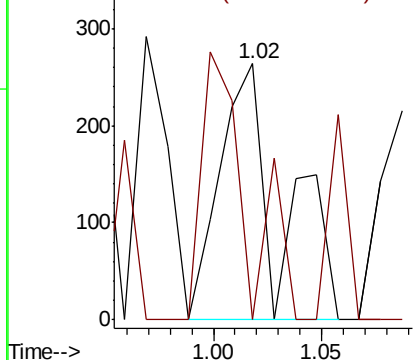
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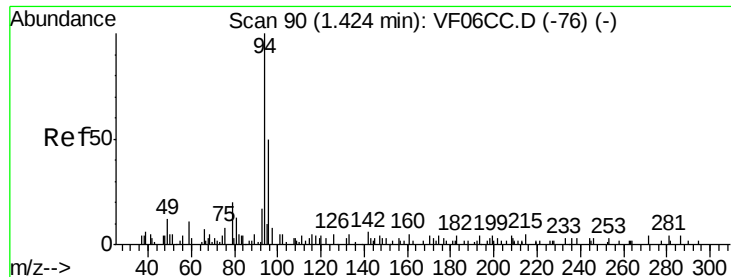
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.02 min Scan# 49
 Delta R.T. 0.01 min
 Lab File: VF062932.D
 Acq: 12 Jun 2019 17:21

Tgt Ion: 85 Resp: 522
 Ion Ratio Lower Upper
 85 100
 87 0.0 17.6 52.9#



Abundance Ion 85.00 (84.70 to 85.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0





#5

Bromomethane

Concen: 1.828 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.06 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

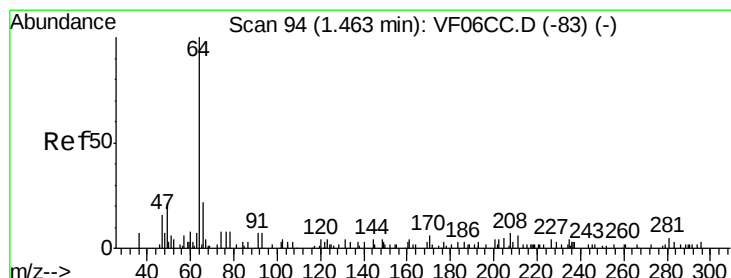
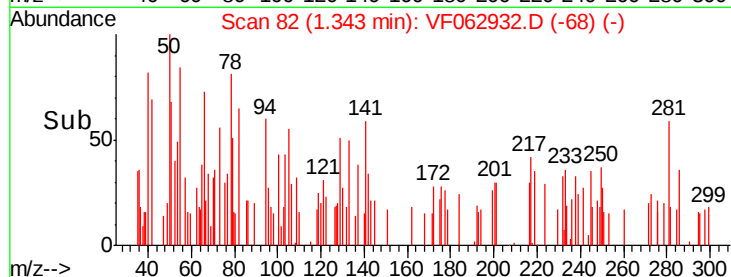
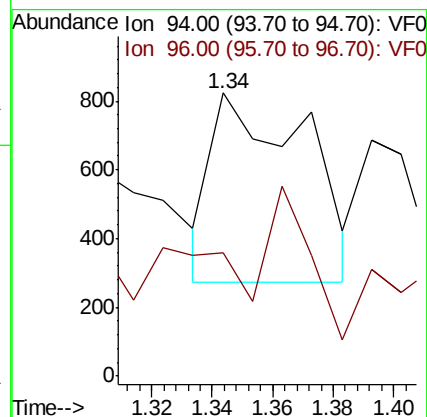
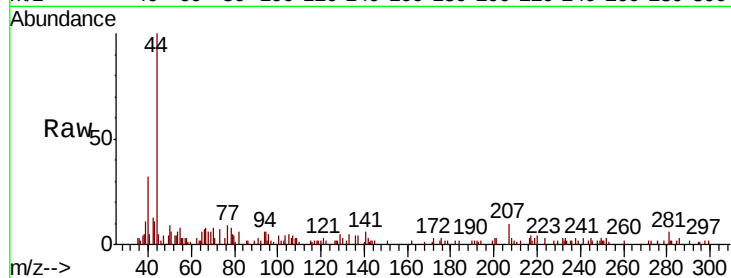
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 94 Resp: 1187

Ion Ratio Lower Upper

94 100

96 43.5 73.8 110.6#



#6

Chloroethane

Concen: 1.691 ug/l

RT: 1.45 min Scan# 93

Delta R.T. -0.01 min

Lab File: VF062932.D

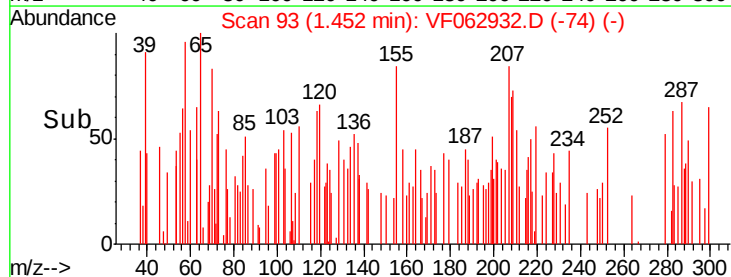
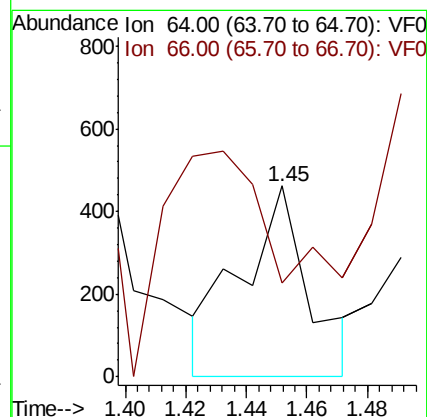
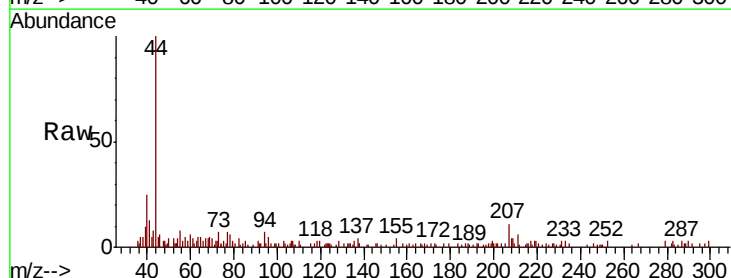
Acq: 12 Jun 2019 17:21

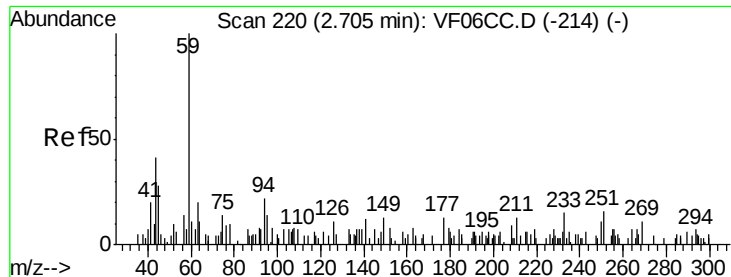
Tgt Ion: 64 Resp: 720

Ion Ratio Lower Upper

64 100

66 49.1 31.0 46.4#

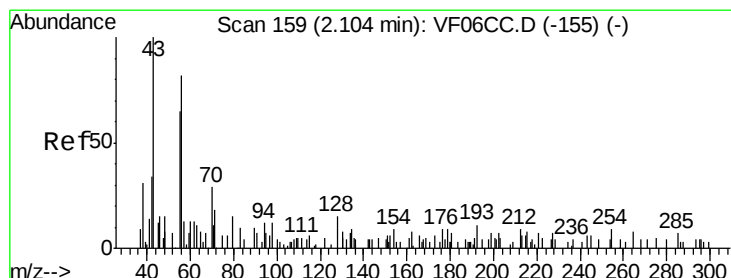
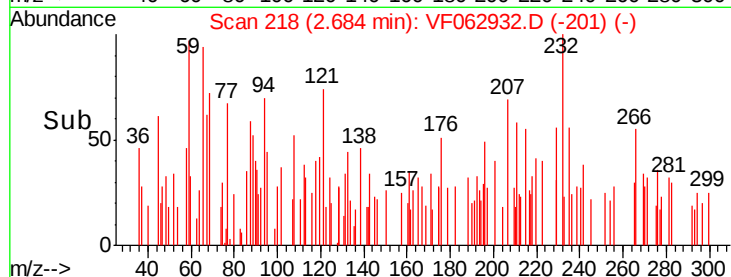
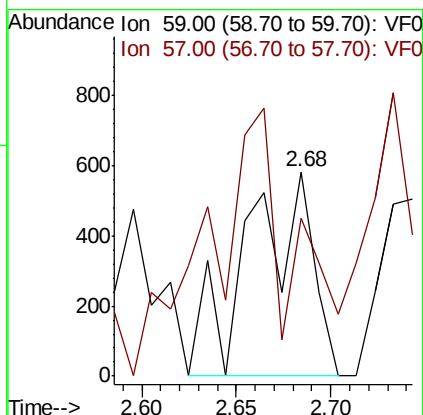
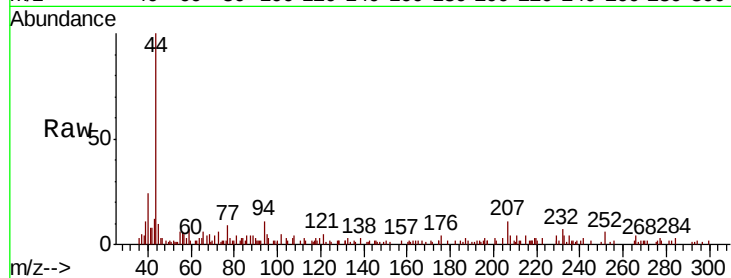




#11
Tert butvl alcohol
Concen: 30.049 ug/l
RT: 2.68 min Scan# 218
Delta R.T. -0.03 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

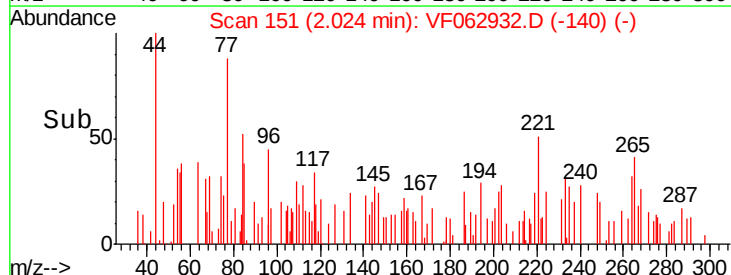
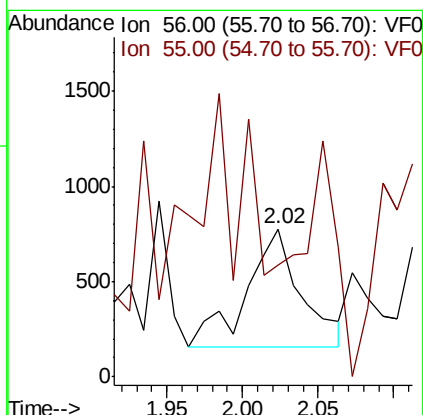
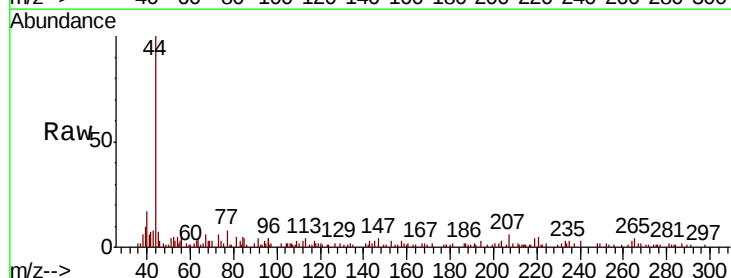
Instrument :
MSVOA_F
ClientSampleId :

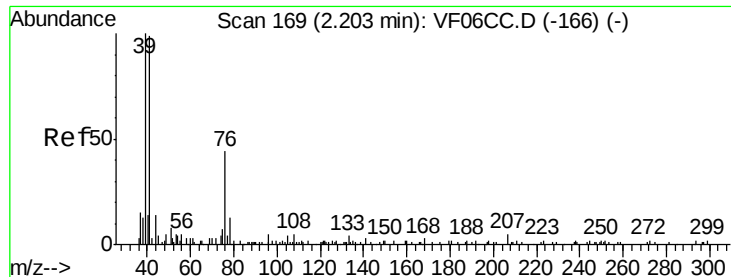
Tot Ion: 59 Resp: 1394
Ion Ratio Lower Upper
59 100
57 125.1 9.2 13.8#



#13
Acrolein
Concen: 78.509 ug/l
RT: 2.02 min Scan# 151
Delta R.T. -0.09 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Tgt Ion: 56 Resp: 1559
Ion Ratio Lower Upper
56 100
55 75.8 52.9 79.3

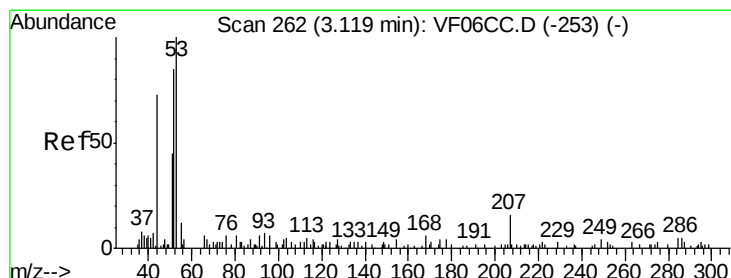
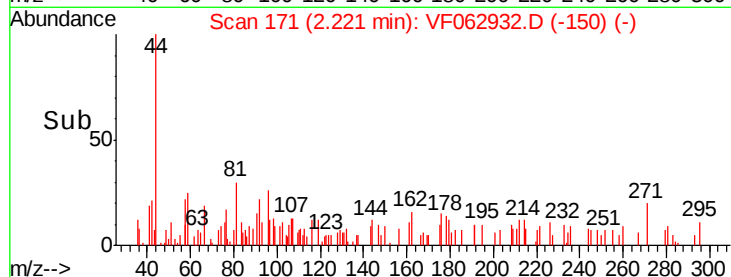
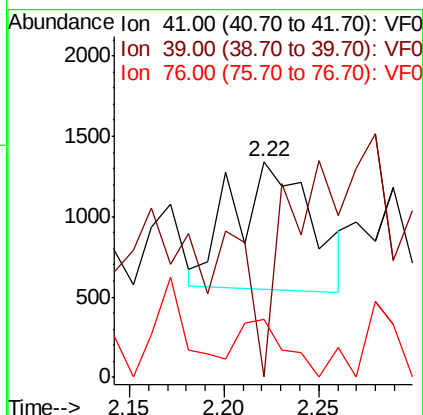
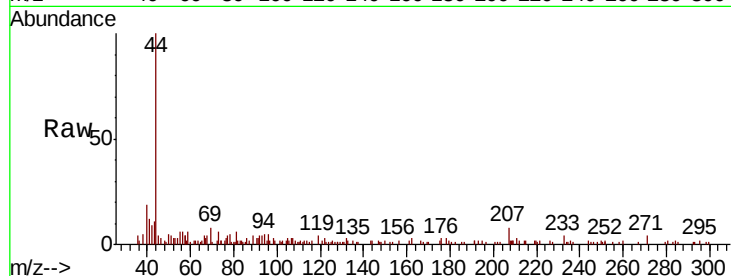




#14
Allvl chloride
Concen: 3.215 ug/l
RT: 2.22 min Scan# 171
Delta R.T. 0.01 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

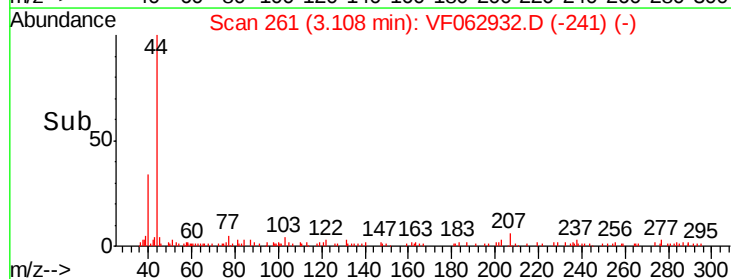
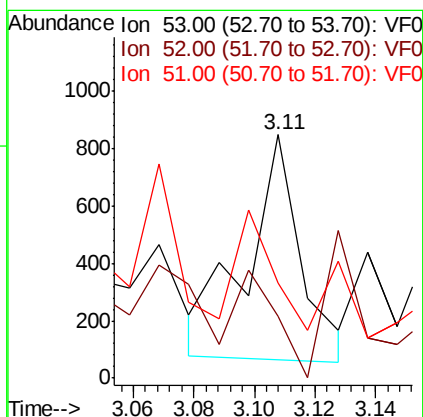
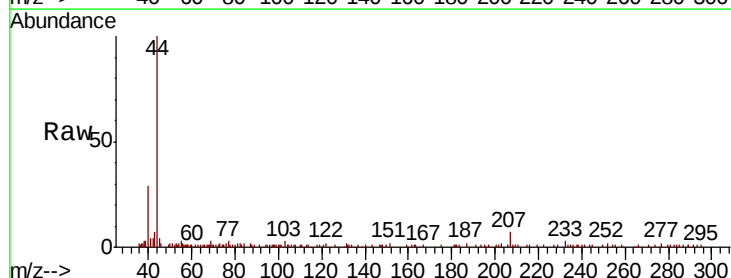
Instrument :
MSVOA_F
ClientSampleId :

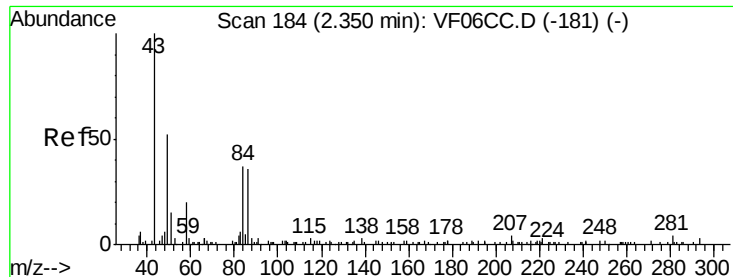
Tot Ion: 41 Resp: 2295
Ion Ratio Lower Upper
41 100
39 0.0 71.9 107.9#
76 27.2 39.6 59.4#



#15
Acrylonitrile
Concen: 5.582 ug/l
RT: 3.11 min Scan# 261
Delta R.T. -0.00 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Tgt Ion: 53 Resp: 973
Ion Ratio Lower Upper
53 100
52 25.4 68.1 102.1#
51 39.0 27.7 41.5

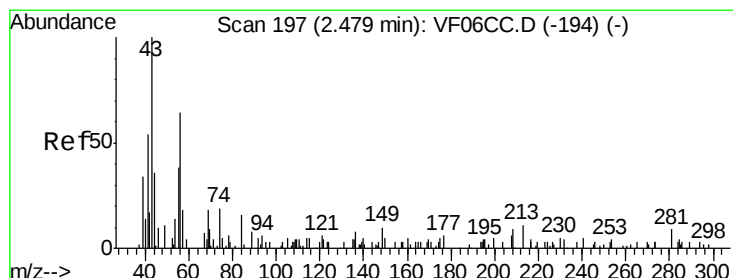
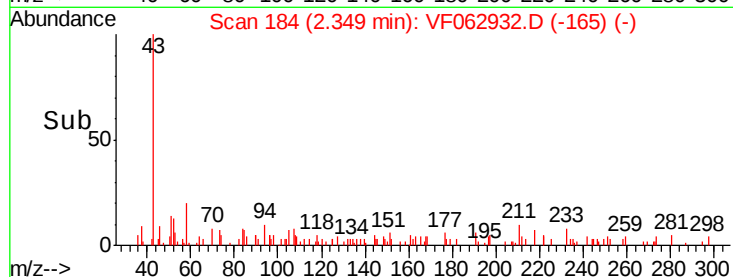
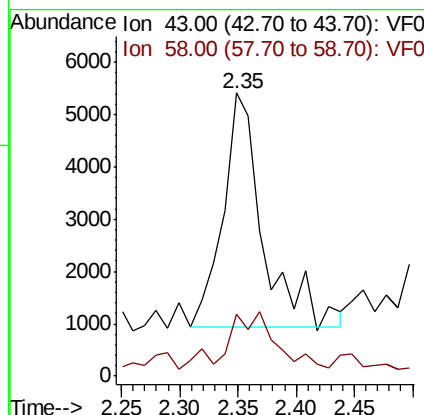
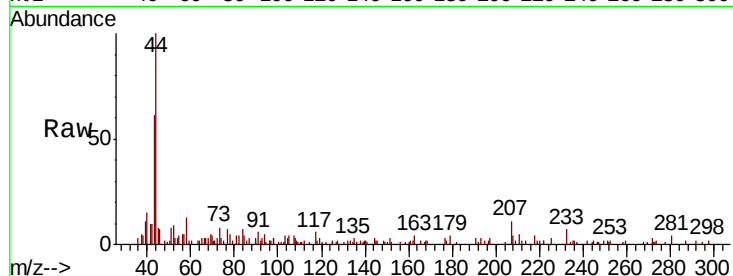




#16
Acetone
Concen: 61.042 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

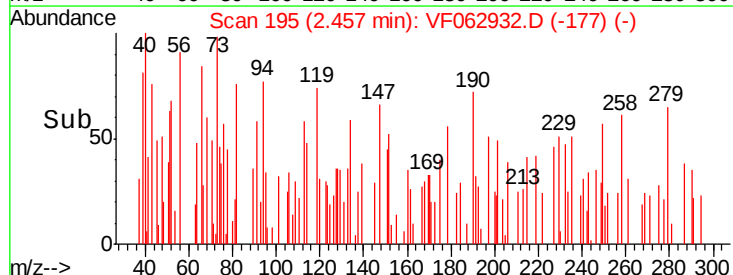
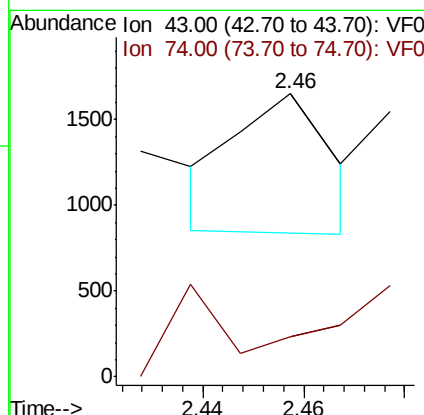
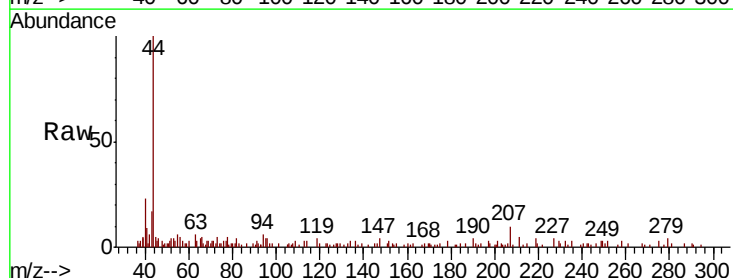
Instrument :
MSVOA_F
ClientSampleId :

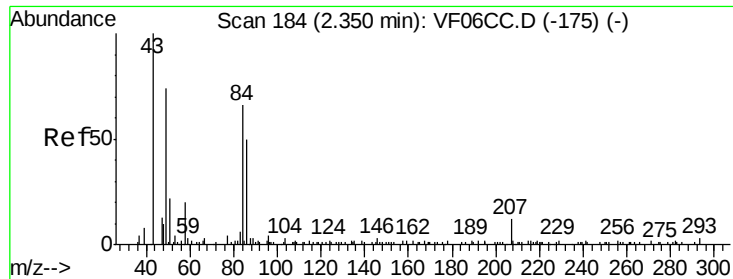
Tot Ion: 43 Resp: 10699
Ion Ratio Lower Upper
43 100
58 21.9 19.0 28.4



#18
Methyl Acetate
Concen: 3.477 ug/l
RT: 2.46 min Scan# 195
Delta R.T. -0.02 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Tgt Ion: 43 Resp: 1065
Ion Ratio Lower Upper
43 100
74 14.4 22.1 33.1#

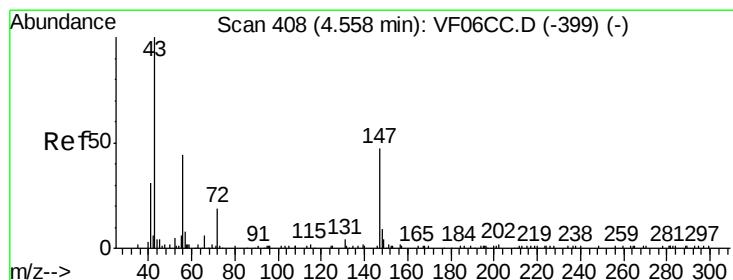
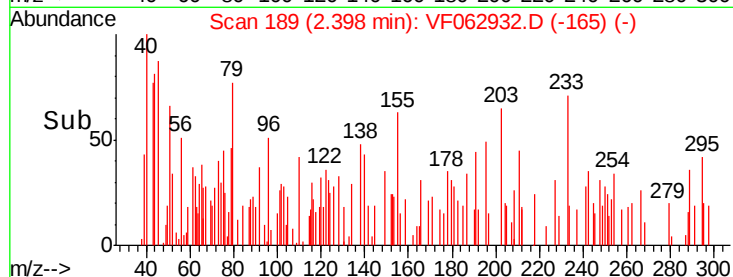
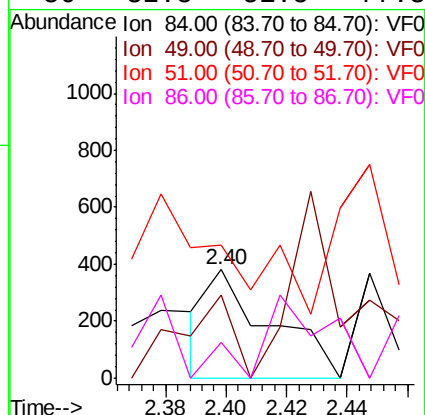
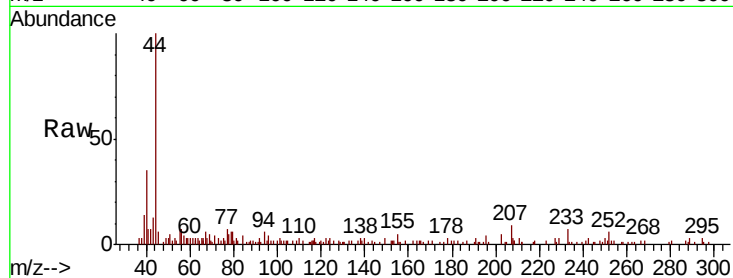




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.40 min Scan# 189
Delta R.T. 0.04 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

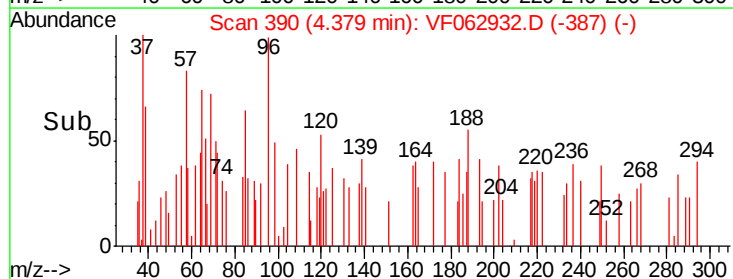
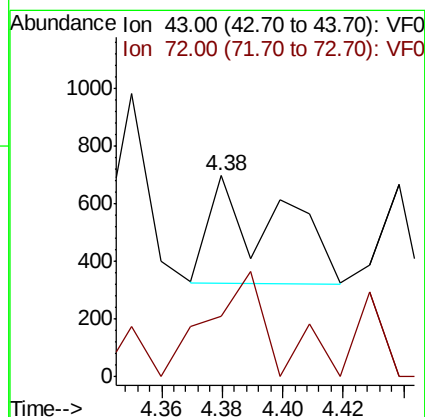
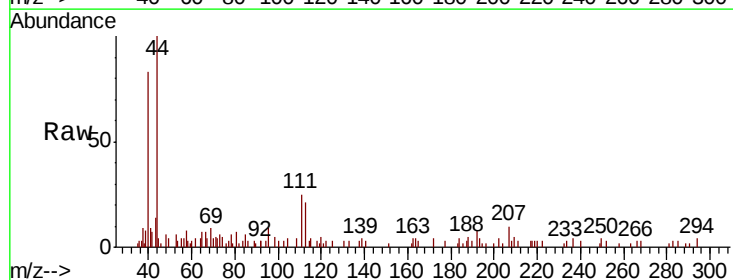
Instrument :
MSVOA_F
ClientSampled :

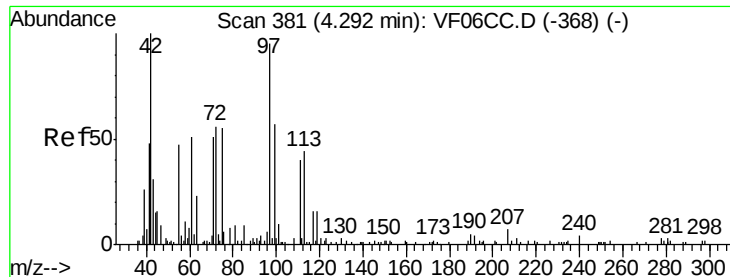
Tot Ion: 84 Resp: 543
Ion Ratio Lower Upper
84 100
49 76.6 82.6 123.8#
51 123.1 25.0 37.4#
86 32.8 51.5 77.3#



#25
2-Butanone
Concen: 1.443 ug/l
RT: 4.38 min Scan# 390
Delta R.T. -0.17 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Tgt Ion: 43 Resp: 589
Ion Ratio Lower Upper
43 100
72 30.2 21.4 32.0

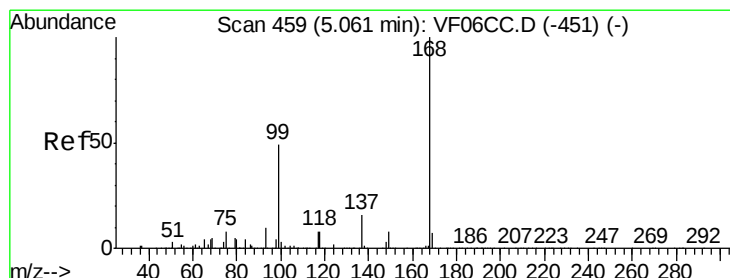
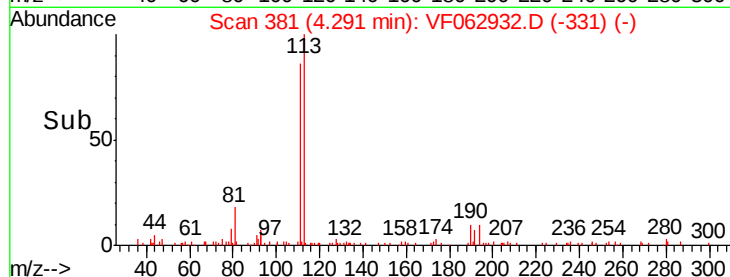
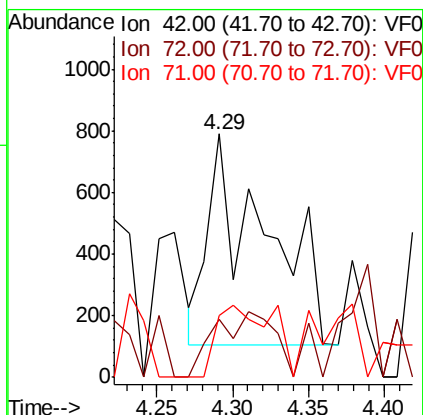
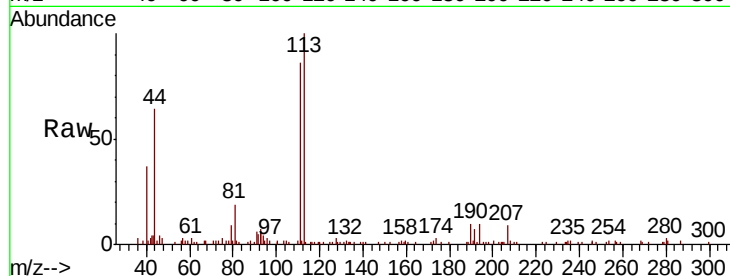




#29
Tetrahydrofuran
Concen: 11.537 ug/l
RT: 4.29 min Scan# 381
Delta R.T. -0.00 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

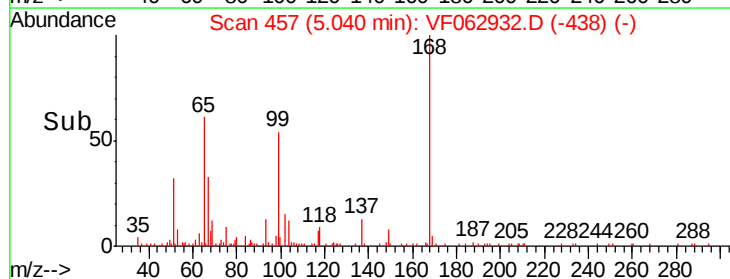
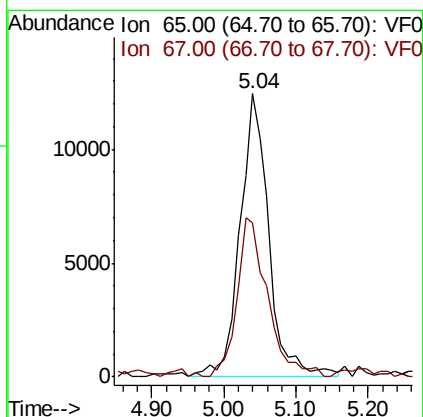
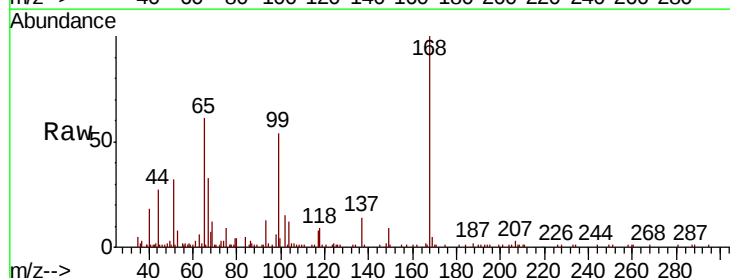
Instrument :
MSVOA_F
ClientSampled :

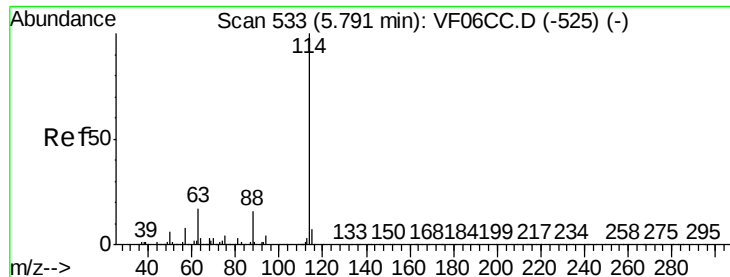
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.0	58.6#
71	0.0	36.9	55.3#



#33
1,2-Dichloroethane-d4
Concen: 45.314 ug/l
RT: 5.04 min Scan# 457
Delta R.T. -0.01 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Tgt Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.02 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

Instrument :

MSVOA_F

ClientSampleId :

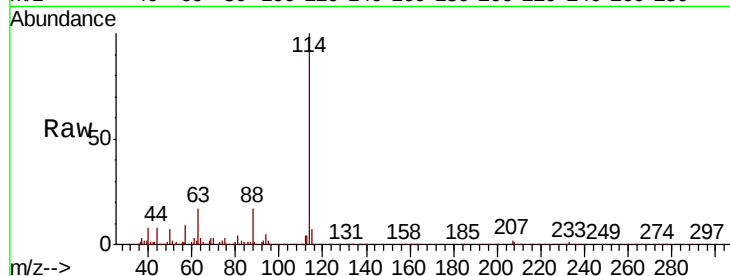
Tot Ion:114 Resp: 167704

Ion Ratio Lower Upper

114 100

63 16.8 0.0 34.2

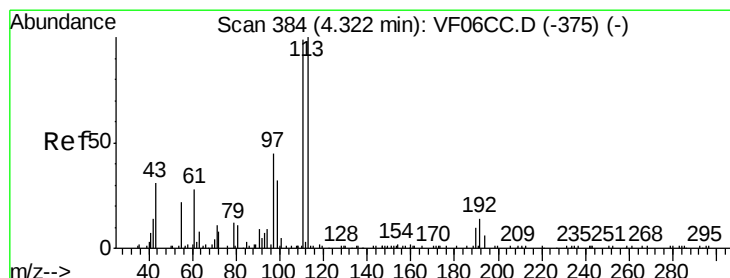
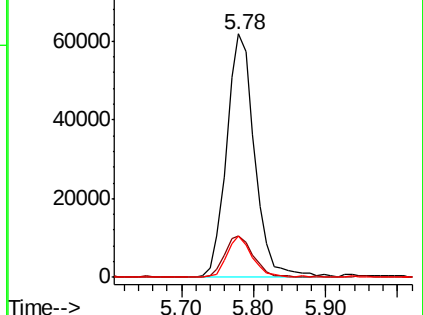
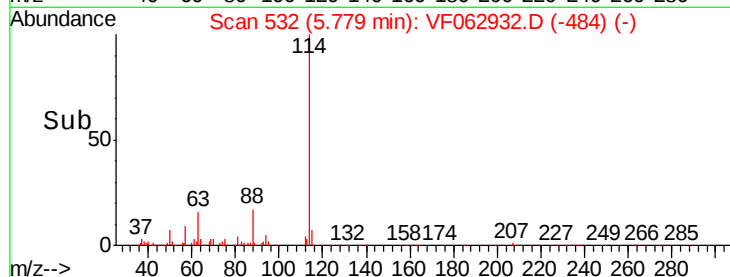
88 17.3 0.0 31.2



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: 54.320 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.01 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

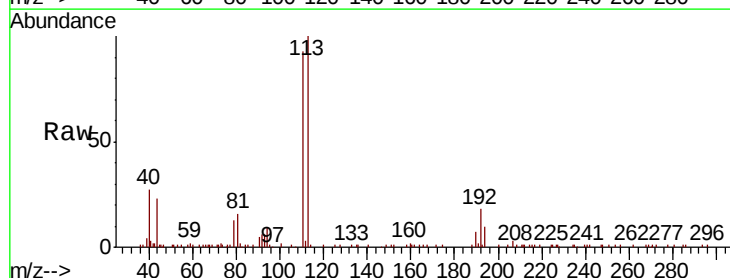
Tgt Ion:113 Resp: 68837

Ion Ratio Lower Upper

113 100

111 93.1 81.9 122.9

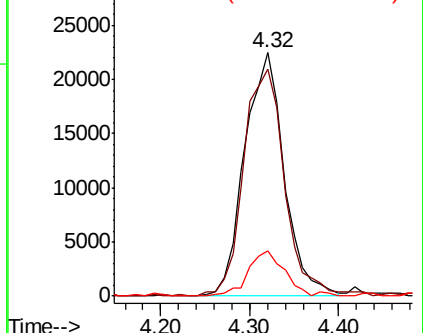
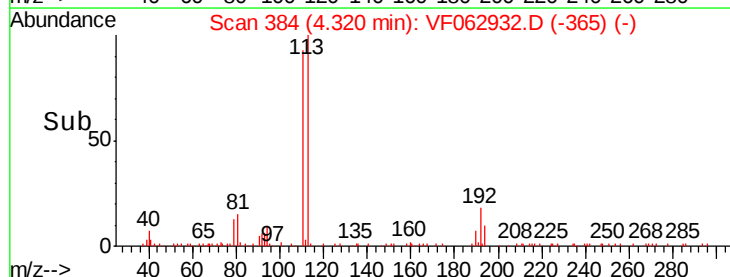
192 18.4 15.1 22.7

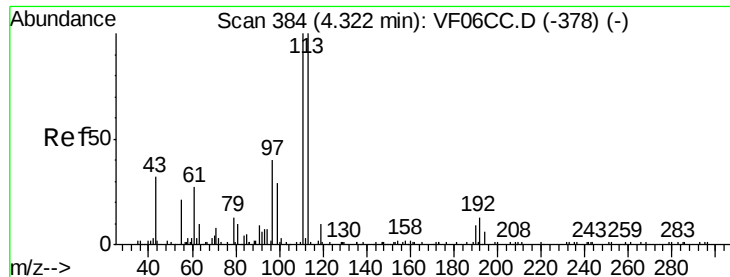


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#37

Ethyl Acetate

Concen: 2.586 ug/l

RT: 4.35 min Scan# 387

Delta R.T. 0.02 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

Instrument :
MSVOA_F
ClientSampled :

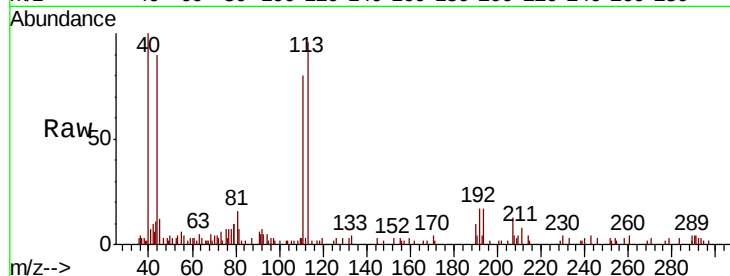
Tot Ion: 43 Resp: 1526

Ion Ratio Lower Upper

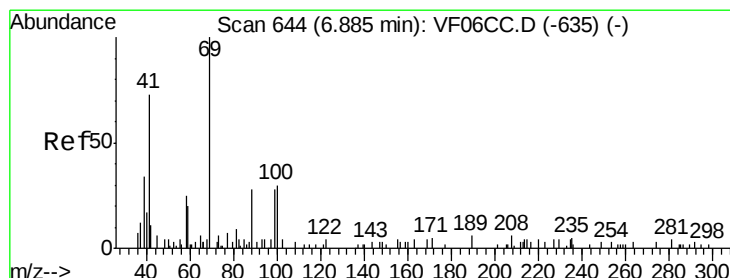
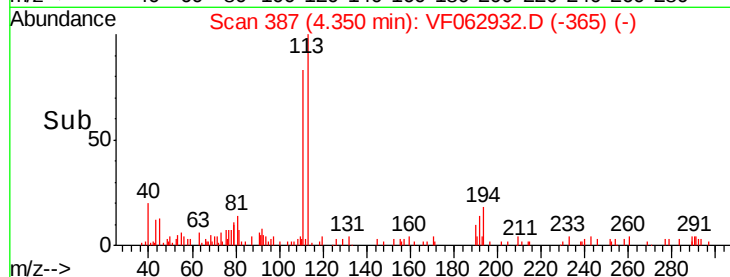
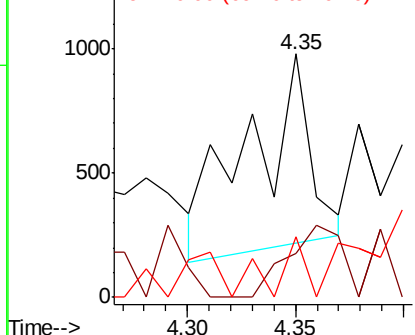
43 100

61 17.9 59.1 88.7#

70 24.7 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: 22.470 ug/l

RT: 6.87 min Scan# 643

Delta R.T. -0.01 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

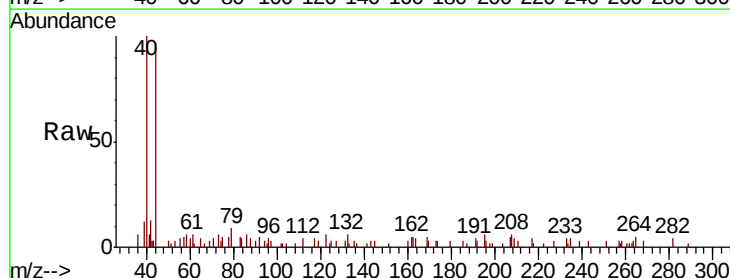
Tgt Ion: 88 Resp: 119

Ion Ratio Lower Upper

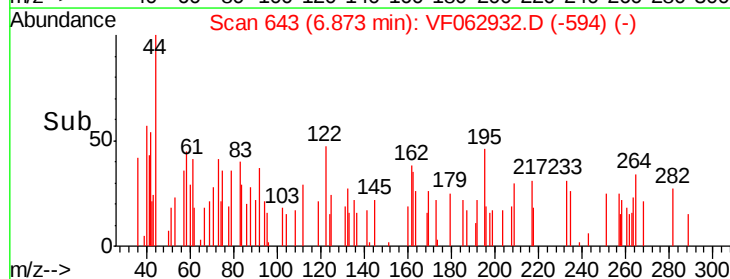
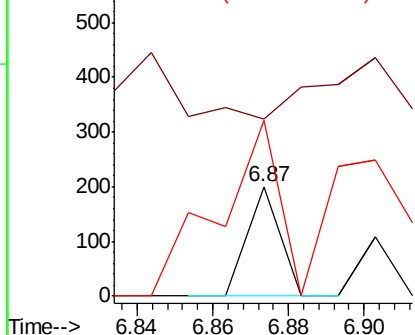
88 100

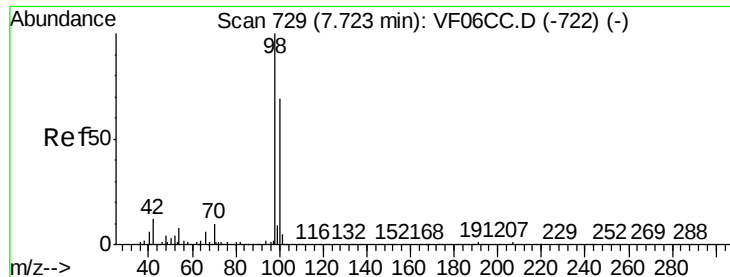
43 160.7 34.8 52.2#

58 159.7 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: 45.238 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.02 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

Instrument :

MSVOA_F

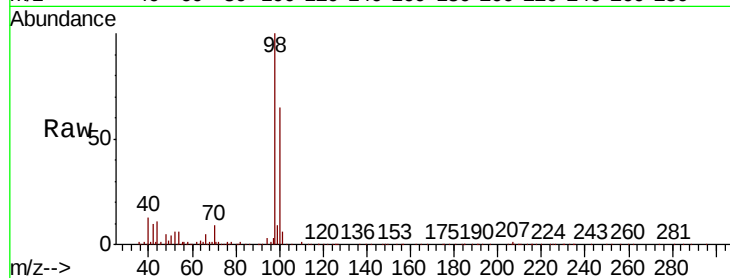
ClientSampleId :

Tot Ion: 98 Resp: 144969

Ion Ratio Lower Upper

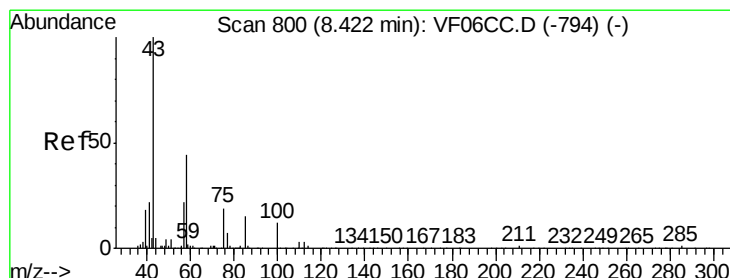
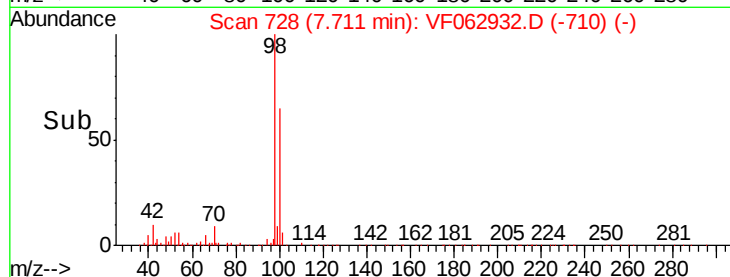
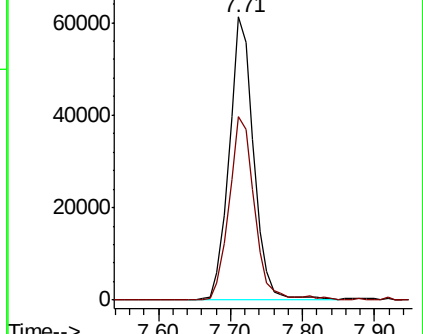
98 100

100 64.7 59.8 89.8



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: 5.005 ug/l

RT: 8.40 min Scan# 798

Delta R.T. -0.02 min

Lab File: VF062932.D

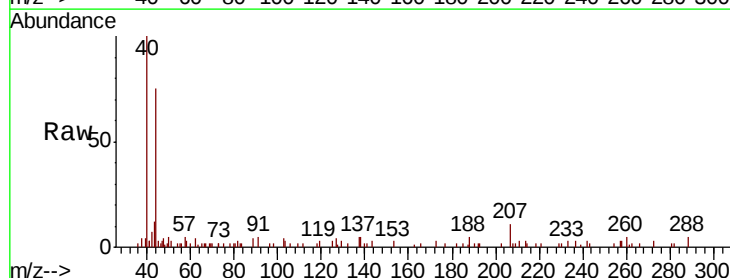
Acq: 12 Jun 2019 17:21

Tgt Ion: 43 Resp: 2786

Ion Ratio Lower Upper

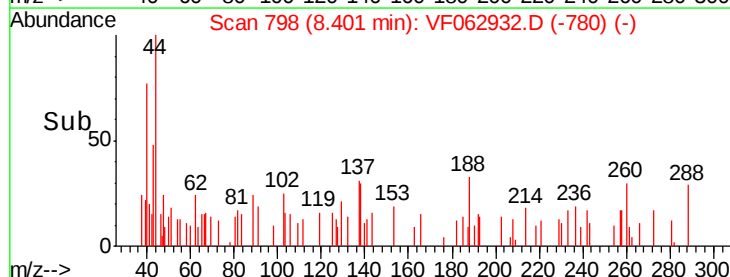
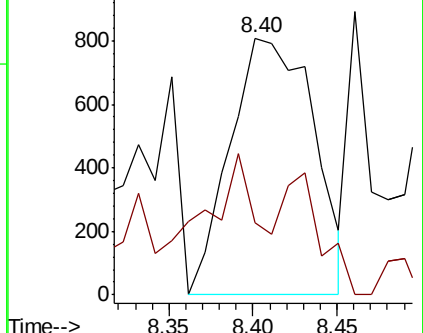
43 100

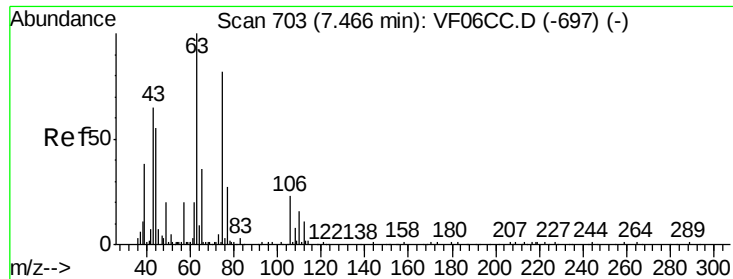
58 28.2 35.5 53.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

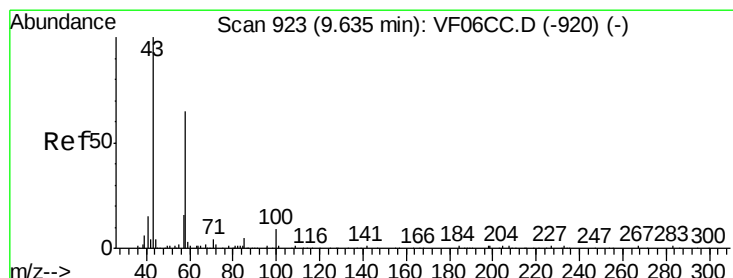
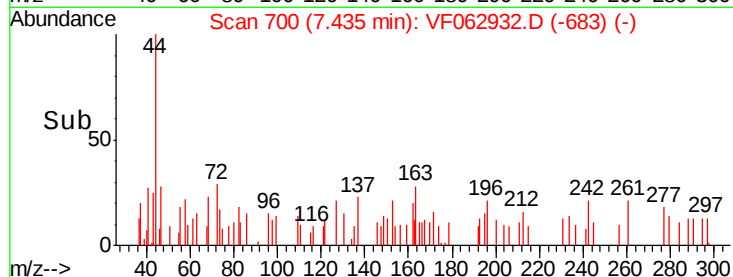
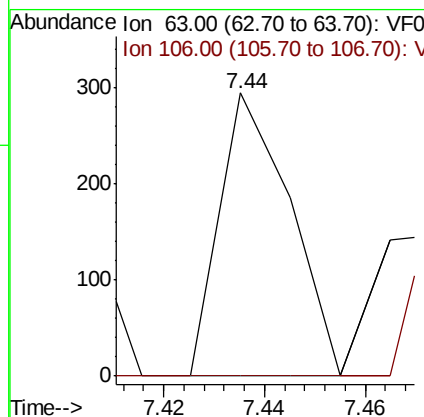
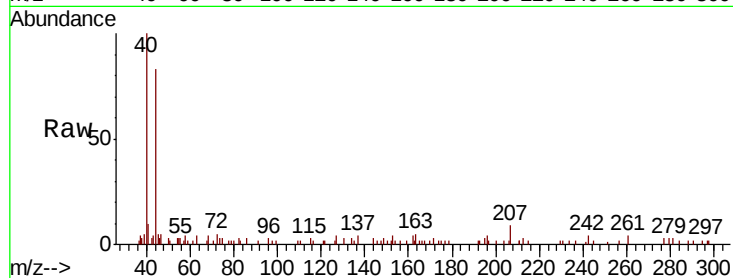




#58
2-Chloroethyl Vinyl ether
Concen: 1.048 ug/l
RT: 7.44 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

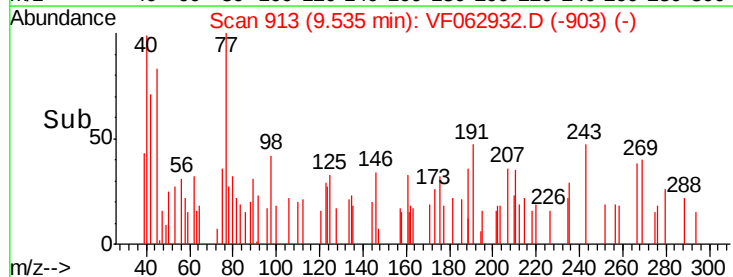
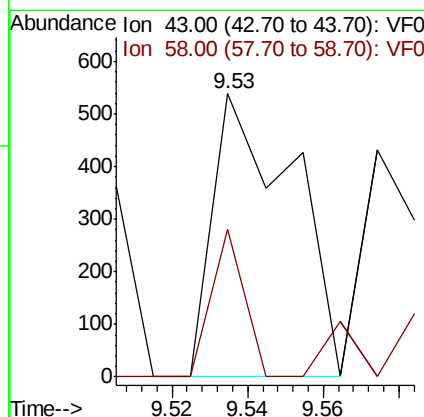
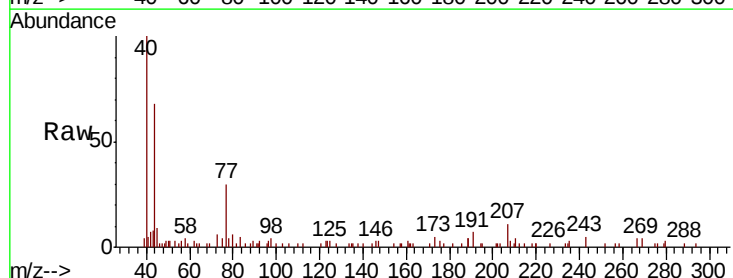
Instrument :
MSVOA_F
ClientSampled :

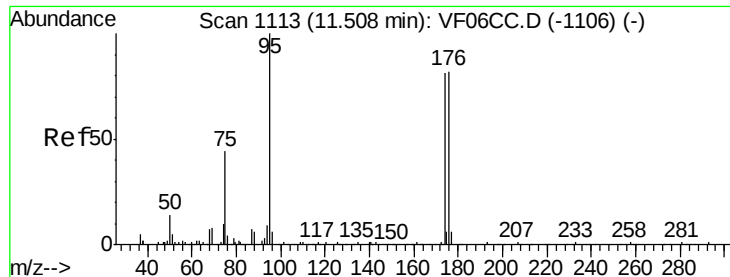
Tot Ion: 63 Resp: 284
Ion Ratio Lower Upper
63 100
106 0.0 19.5 29.3#



#59
2-Hexanone
Concen: 1.974 ug/l
RT: 9.53 min Scan# 913
Delta R.T. -0.10 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Tgt Ion: 43 Resp: 783
Ion Ratio Lower Upper
43 100
58 52.2 29.3 87.9





#62

4-Bromofluorobenzene

Concen: 42.358 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

Instrument :

MSVOA_F

ClientSampleId :

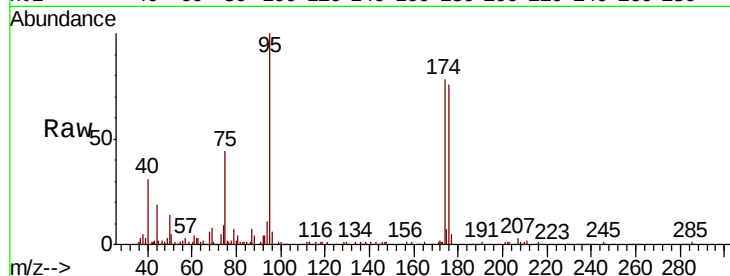
Tot Ion: 95 Resp: 48827

Ion Ratio Lower Upper

95 100

174 78.1 0.0 170.6

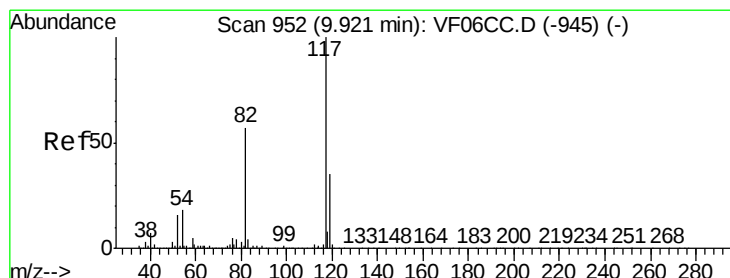
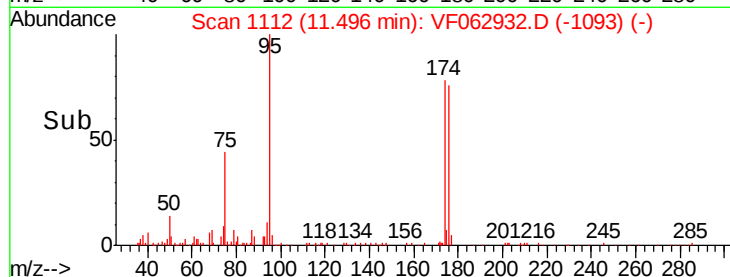
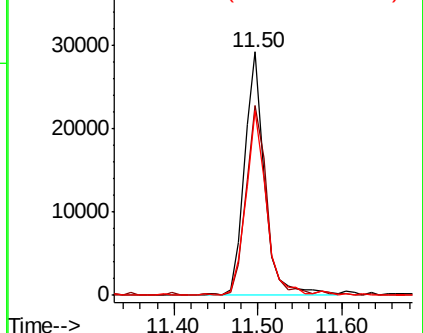
176 76.0 0.0 170.6



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: 9.91 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

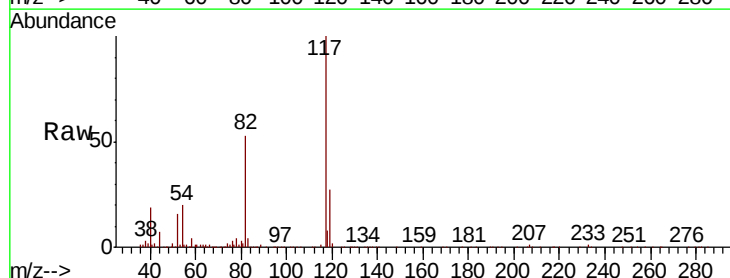
Tgt Ion: 117 Resp: 146099

Ion Ratio Lower Upper

117 100

82 52.6 42.4 63.6

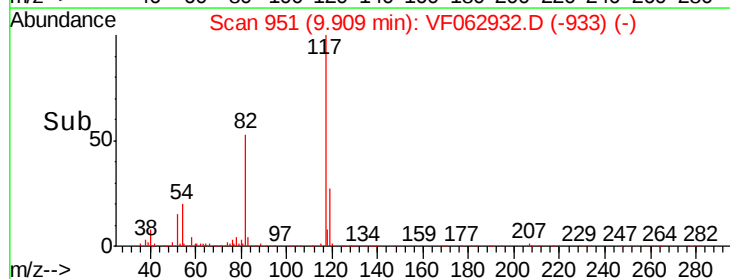
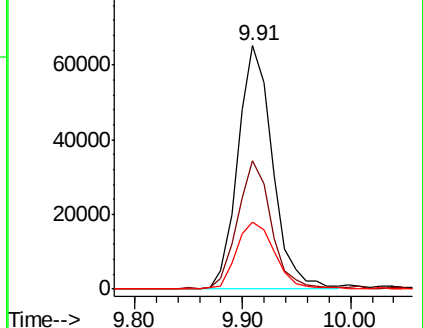
119 27.3 27.1 40.7

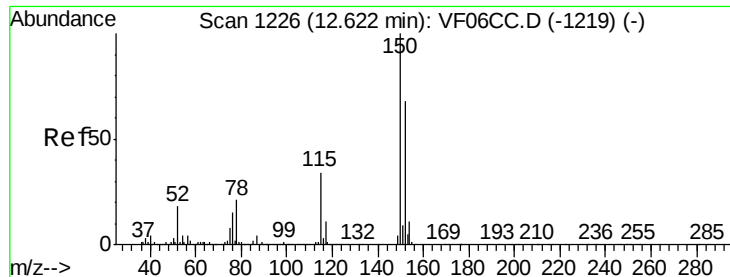


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0



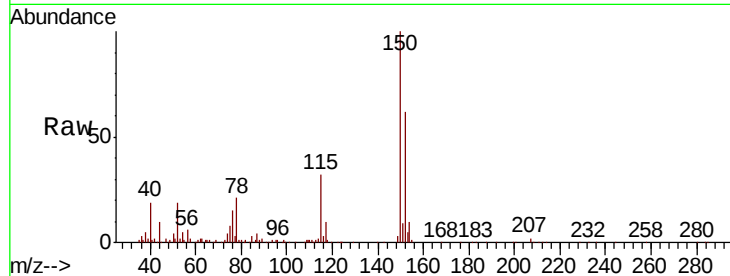


#72

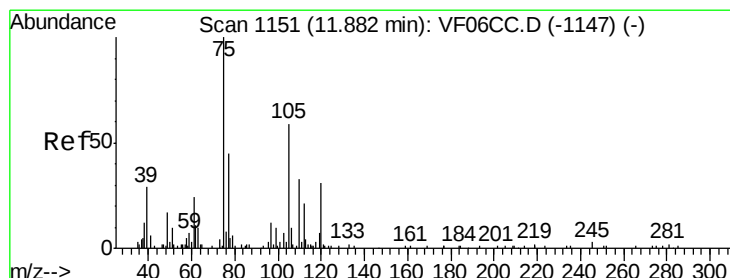
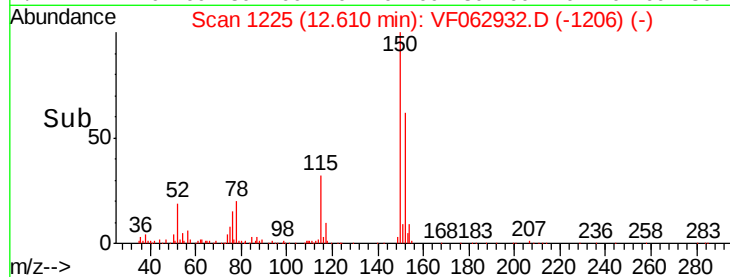
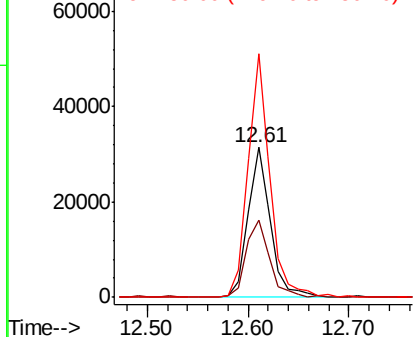
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	51.9	24.6	74.0
150	162.6	0.0	290.6



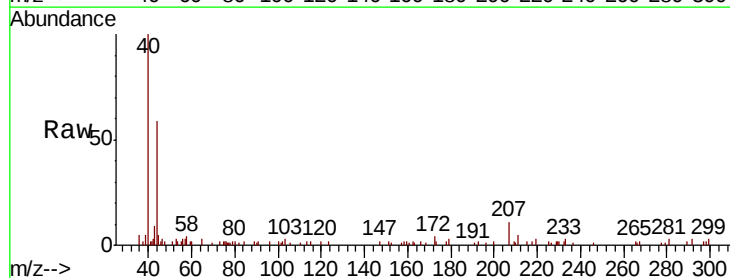
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



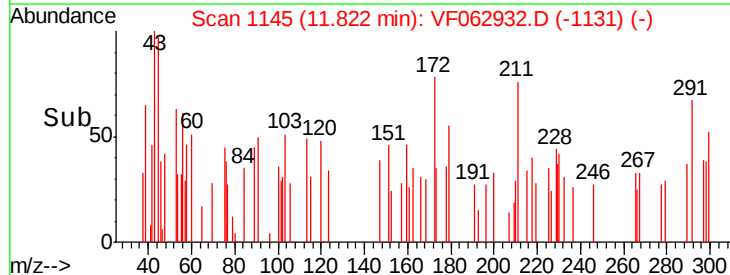
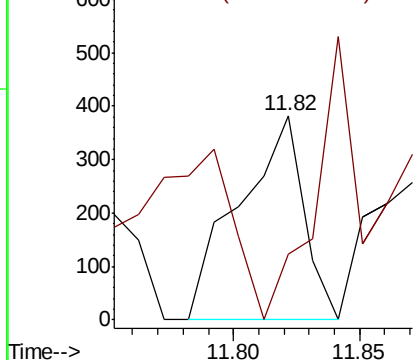
#76

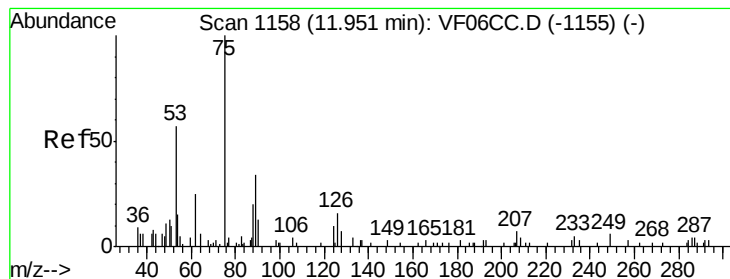
1,2,3-Trichloropropane
Concen: 1.418 ug/l
RT: 11.82 min Scan# 1145
Delta R.T. -0.06 min
Lab File: VF062932.D
Acq: 12 Jun 2019 17:21

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	20.1	60.2



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.469 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.05 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

Instrument :

MSVOA_F

ClientSampled :

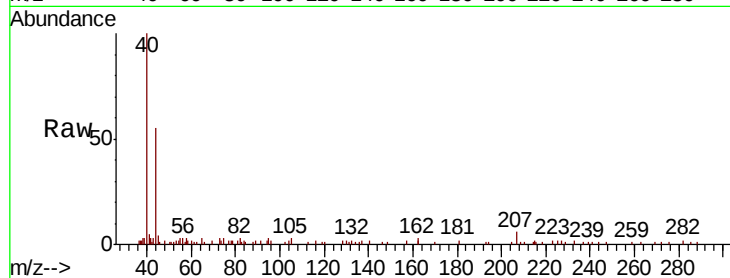
Tot Ion: 75 Resp: 300

Ion Ratio Lower Upper

75 100

53 64.0 43.5 65.3

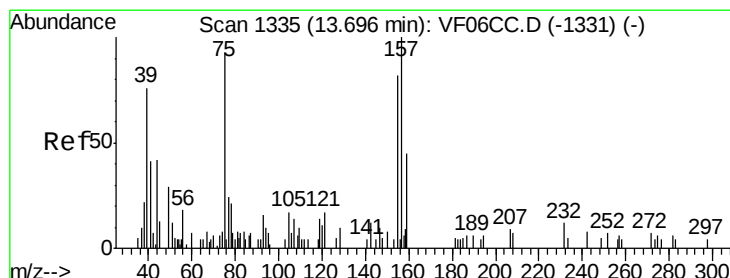
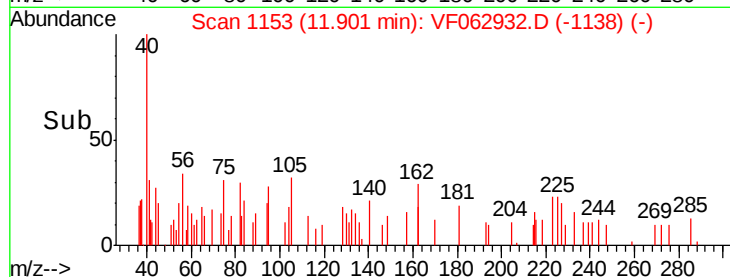
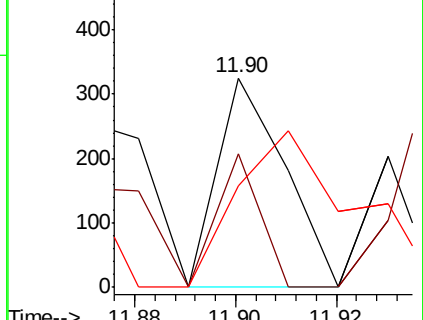
89 48.3 34.3 51.5



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.232 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. 0.02 min

Lab File: VF062932.D

Acq: 12 Jun 2019 17:21

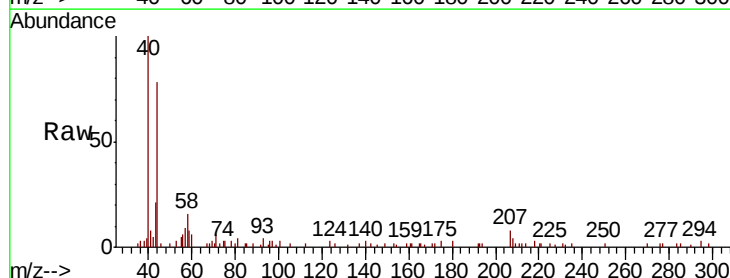
Tgt Ion: 75 Resp: 177

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.1#

157 0.0 66.8 200.6#



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

