

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060319\
 Data File : VF062832.D
 Acq On : 3 Jun 2019 16:48
 Operator : FY/SY
 Sample : K3138-09RE
 Misc : 5.01µ/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 04 08:53:32 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	229663	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	383391	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.92	117	288327	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	117471	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	58028	36.54	ug/l	-0.02
Spiked Amount			Recovery	=	73.08%	
35) Dibromofluoromethane	4.32	113	119500	41.25	ug/l	-0.02
Spiked Amount			Recovery	=	82.50%	
50) Toluene-d8	7.72	98	298827	40.79	ug/l	-0.02
Spiked Amount			Recovery	=	81.58%	
62) 4-Bromofluorobenzene	11.49	95	106806	40.53	ug/l	-0.02
Spiked Amount			Recovery	=	81.06%	

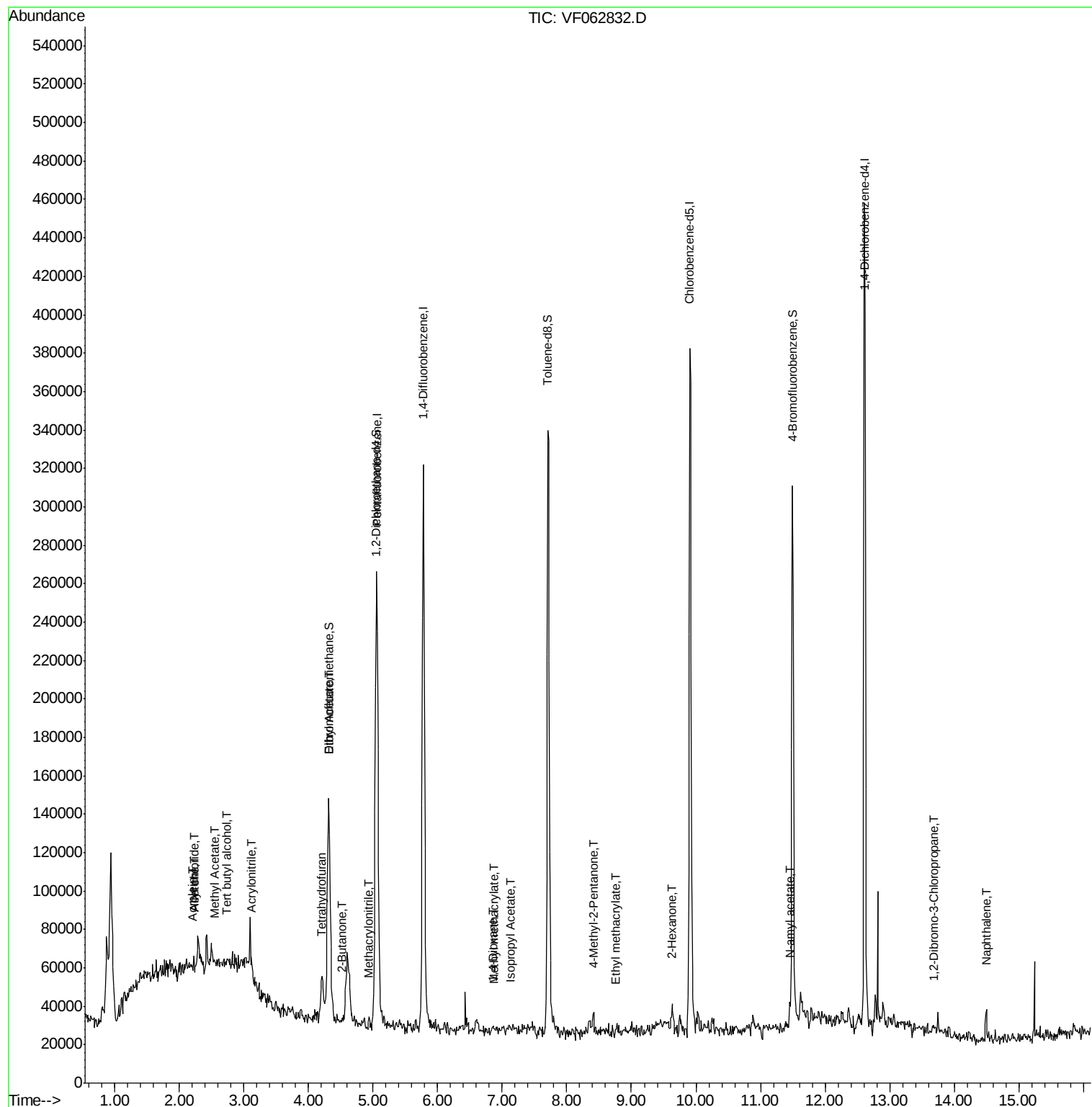
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	405	Below Cal		90
11) Tert butyl alcohol	2.74	59	311	3.233	ug/l #	1
13) Acrolein	2.20	56	2025	46.011	ug/l	97
14) Allyl chloride	2.24	41	2348	1.586	ug/l #	66
15) Acrylonitrile	3.11	53	2392	6.617	ug/l #	52
16) Acetone	2.24	43	1298	3.571	ug/l	95
18) Methyl Acetate	2.56	43	987	1.554	ug/l	96
20) Methylene Chloride	2.40	84	1075	Below Cal	#	27
25) 2-Butanone	4.51	43	1444	1.706	ug/l	93
29) Tetrahydrofuran	4.19	42	707	2.184	ug/l	94
37) Ethyl Acetate	4.32	43	2543	1.885	ug/l #	36
41) Methacrylonitrile	4.92	41	1706	2.275	ug/l #	31
43) Isopropyl Acetate	7.14	43	4283	2.403	ug/l #	76
48) Methyl methacrylate	6.89	41	2665	2.901	ug/l #	57
49) 1,4-Dioxane	6.86	88	510	42.123	ug/l #	56
51) 4-Methyl-2-Pentanone	8.41	43	8352	6.564	ug/l #	85
56) Ethyl methacrylate	8.75	69	2364	1.333	ug/l #	13
59) 2-Hexanone	9.63	43	12429	13.704	ug/l	96
74) N-amyl acetate	11.44	43	11150	4.826	ug/l #	89
92) 1,2-Dibromo-3-Chloropropan	13.69	75	266	1.395	ug/l #	1
95) Naphthalene	14.49	128	10892	3.033	ug/l #	89

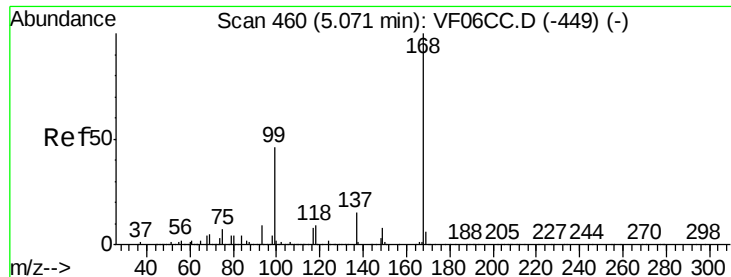
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.01 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

Instrument :

MSVOA_F

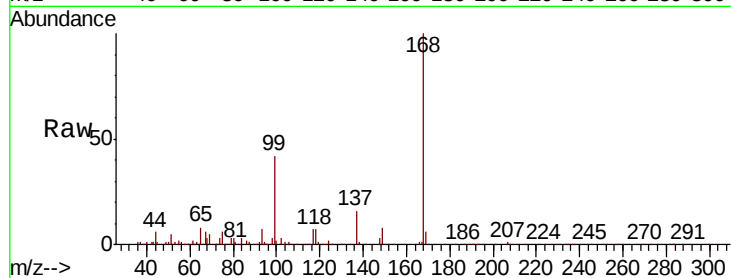
ClientSampleId :

Tot Ion:168 Resp: 229663

Ion Ratio Lower Upper

168 100

99 42.1 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.07

80000

60000

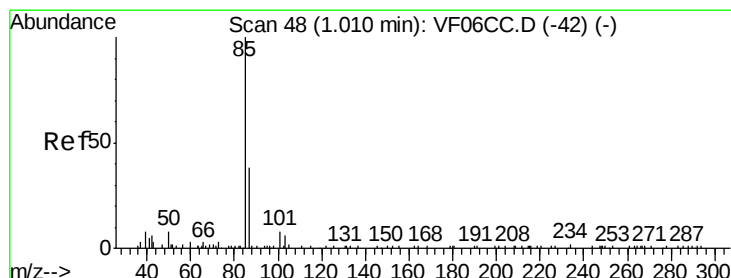
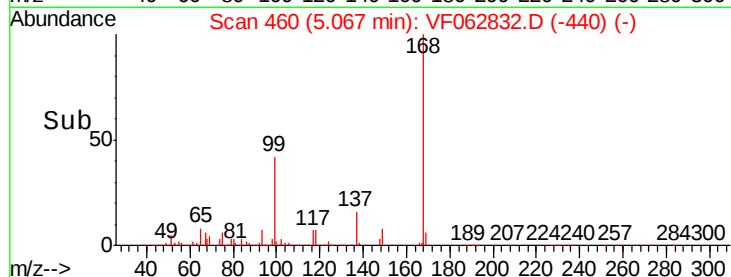
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 47

Delta R.T. -0.02 min

Lab File: VF062832.D

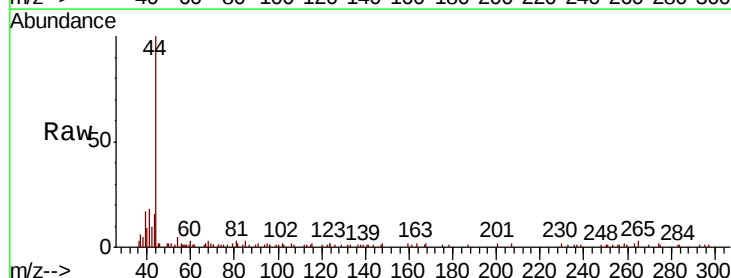
Acq: 3 Jun 2019 16:48

Tgt Ion: 85 Resp: 405

Ion Ratio Lower Upper

85 100

87 29.6 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

400

300

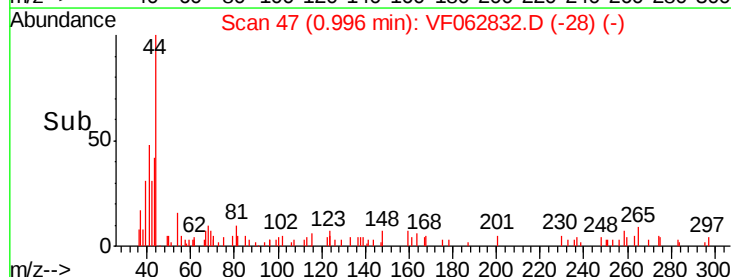
200

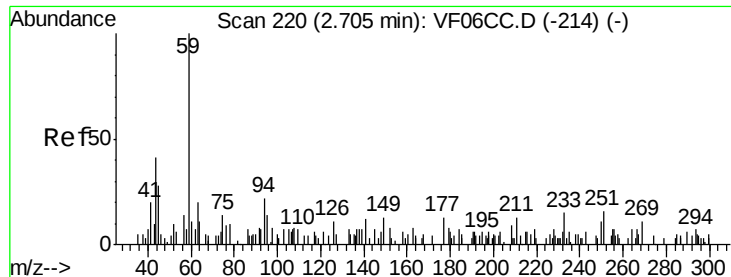
100

0

Time-->

0.98 1.00



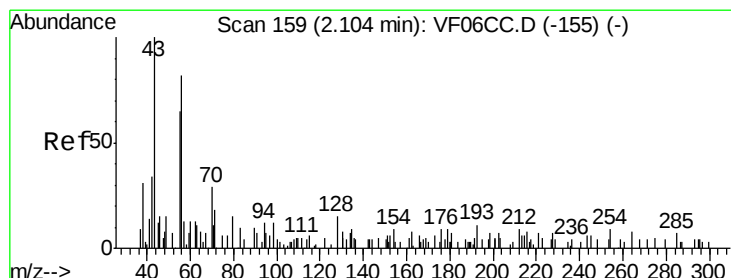
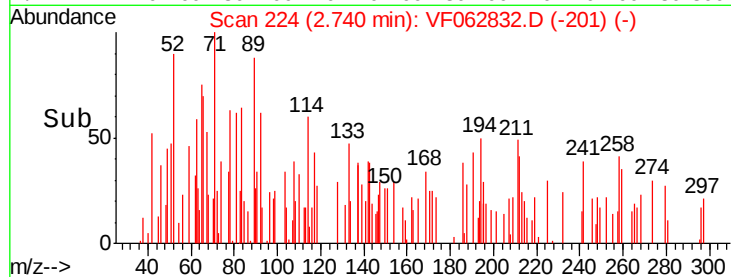
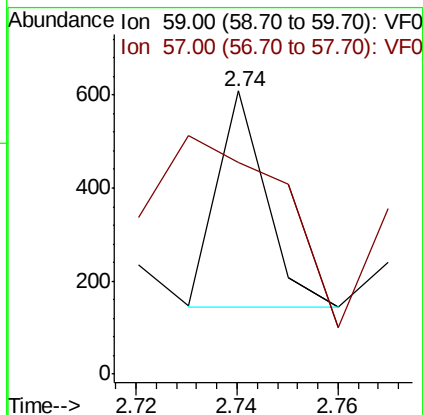
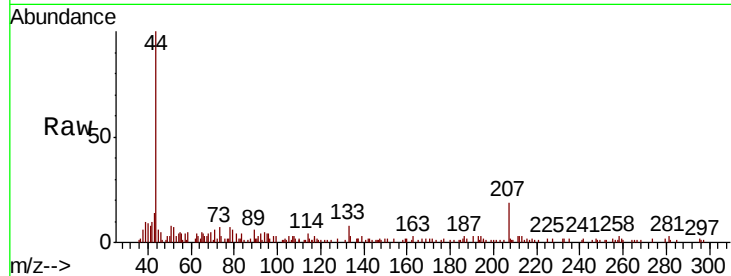


#11

Tert butyl alcohol
Concen: 3.233 ug/l
RT: 2.74 min Scan# 224
Delta R.T. 0.02 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Instrument :
MSVOA_F
ClientSampled :

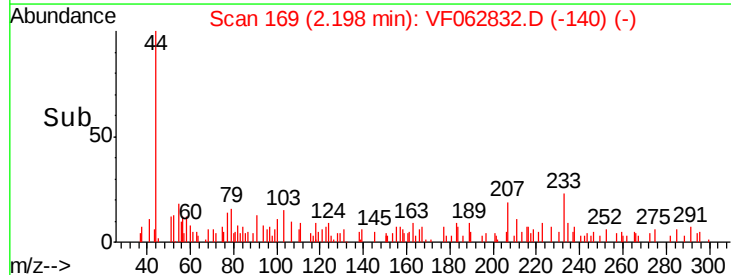
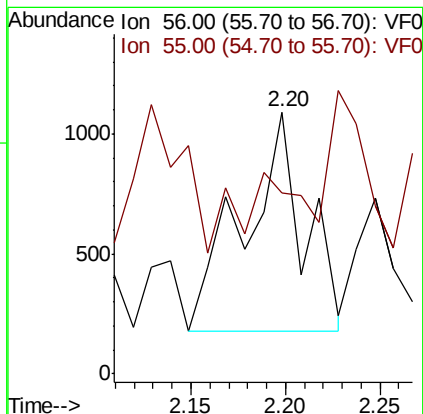
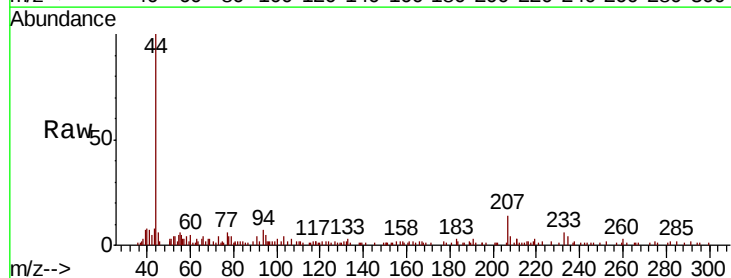
Tot Ion: 59 Resp: 311
Ion Ratio Lower Upper
59 100
57 74.7 9.2 13.8#

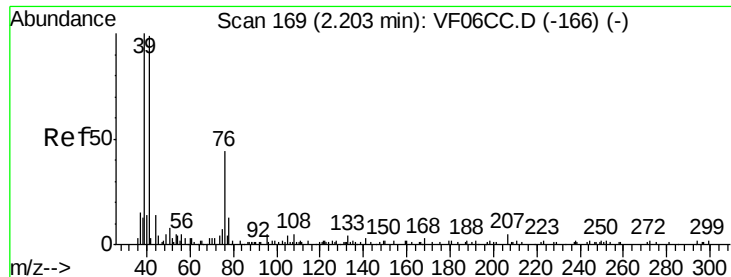


#13

Acrolein
Concen: 46.011 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.08 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 56 Resp: 2025
Ion Ratio Lower Upper
56 100
55 68.9 52.9 79.3





#14

Allvl chloride

Concen: 1.586 ug/l

RT: 2.24 min Scan# 173

Delta R.T. 0.02 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

Instrument :

MSVOA_F

ClientSampleId :

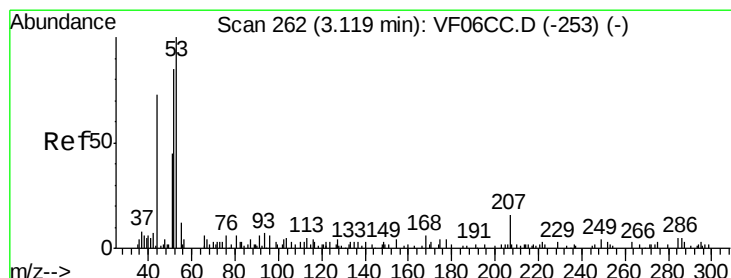
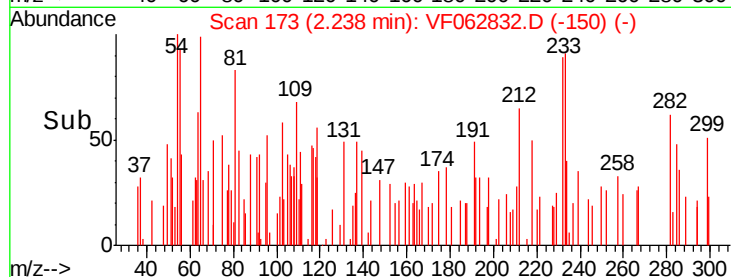
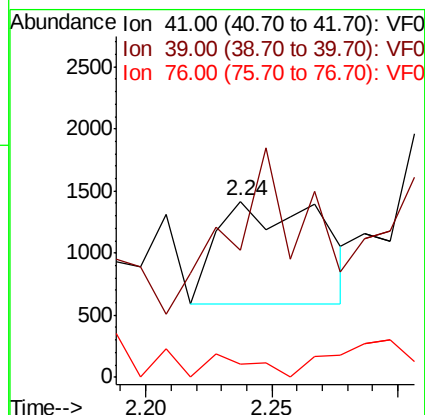
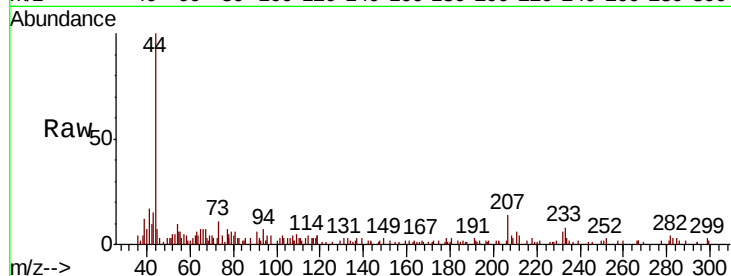
Tot Ion: 41 Resp: 2348

Ion Ratio Lower Upper

41 100

39 72.2 71.9 107.9

76 7.8 39.6 59.4#



#15

Acrylonitrile

Concen: 6.617 ug/l

RT: 3.11 min Scan# 262

Delta R.T. 0.00 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

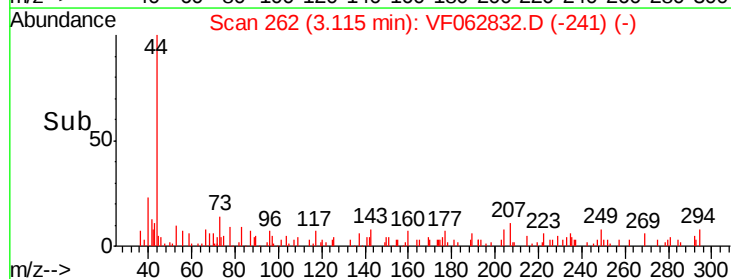
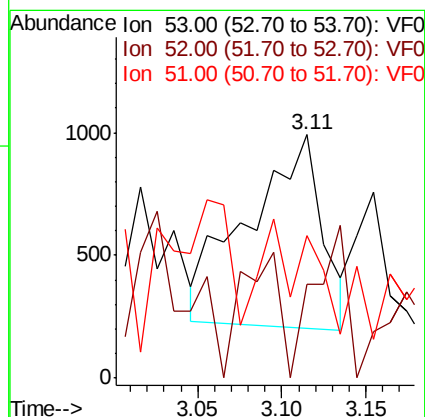
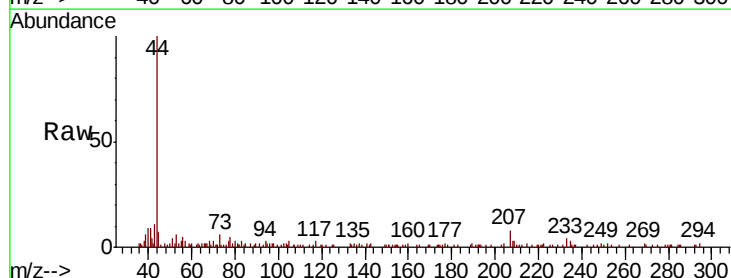
Tgt Ion: 53 Resp: 2392

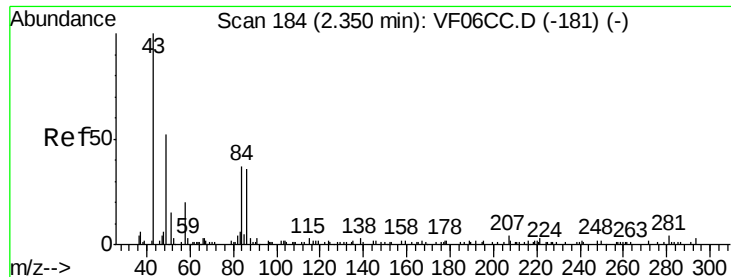
Ion Ratio Lower Upper

53 100

52 38.4 68.1 102.1#

51 58.8 27.7 41.5#

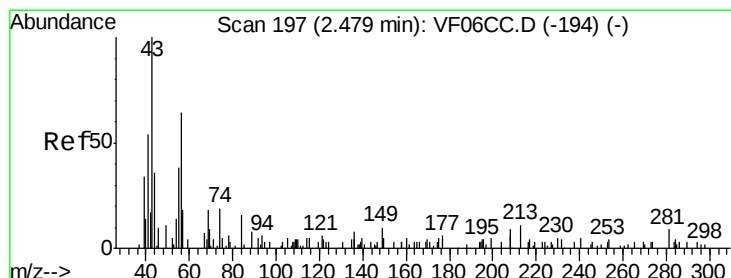
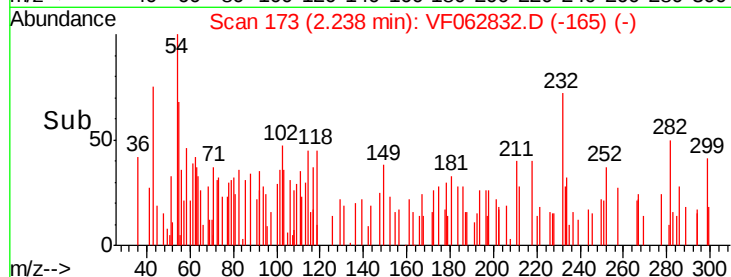
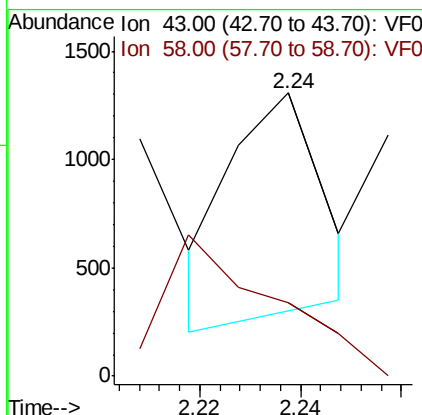
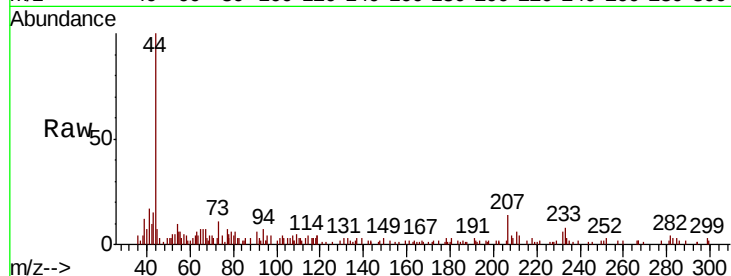




#16
Acetone
Concen: 3.571 ug/l
RT: 2.24 min Scan# 173
Delta R.T. -0.12 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

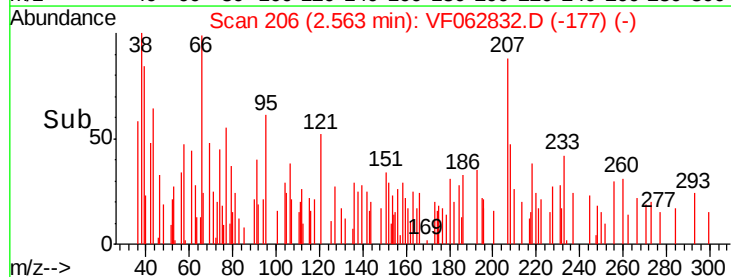
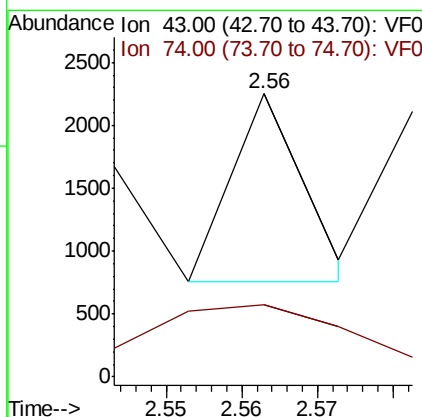
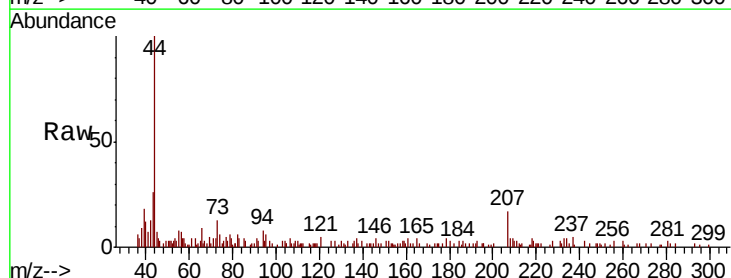
Instrument :
MSVOA_F
ClientSampleId :

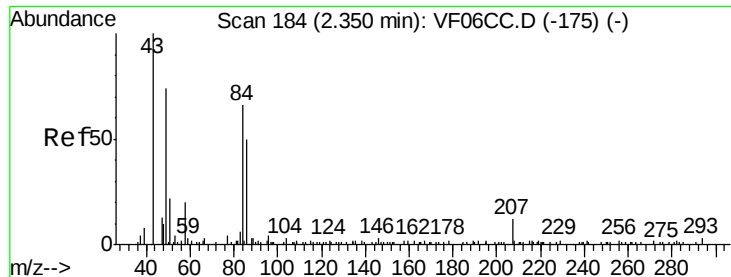
Tot Ion: 43 Resp: 1298
Ion Ratio Lower Upper
43 100
58 25.9 19.0 28.4



#18
Methyl Acetate
Concen: 1.554 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.08 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 43 Resp: 987
Ion Ratio Lower Upper
43 100
74 25.3 22.1 33.1

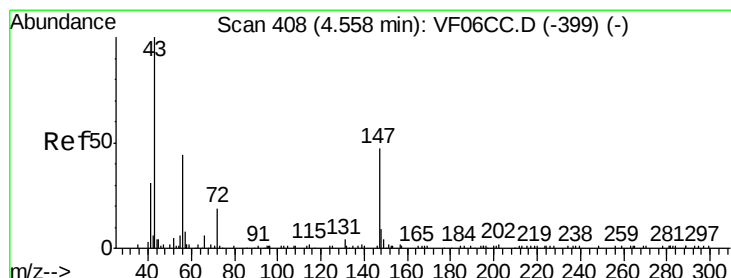
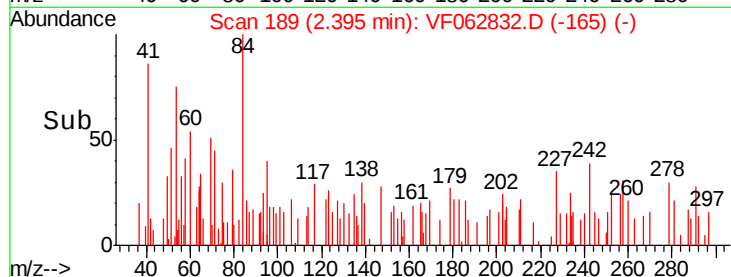
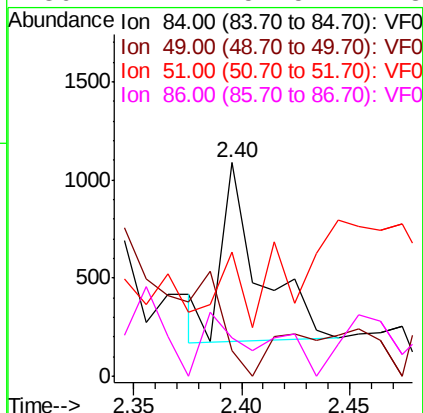
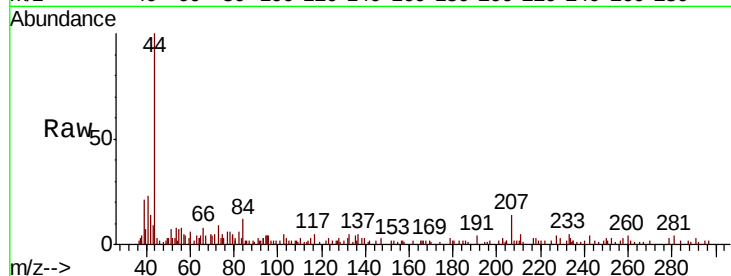




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.40 min Scan# 189
Delta R.T. 0.03 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

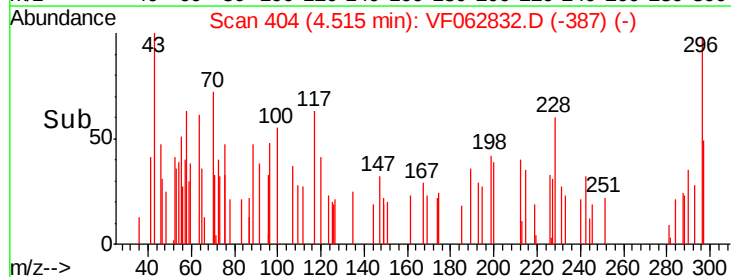
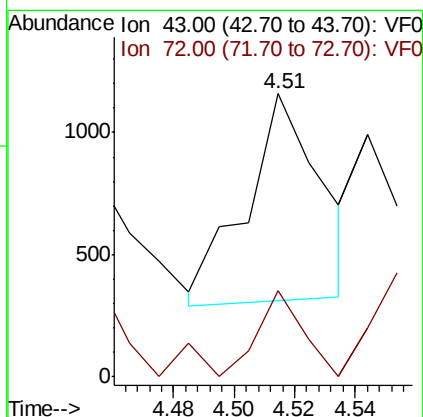
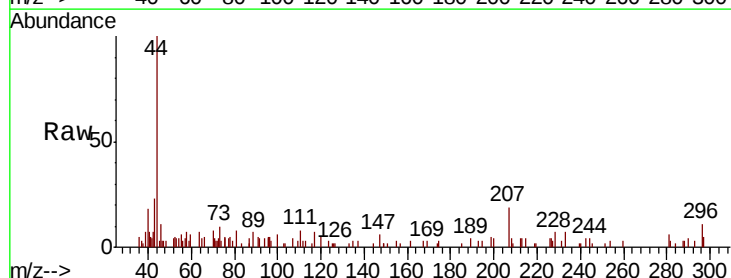
Instrument :
MSVOA_F
ClientSampled :

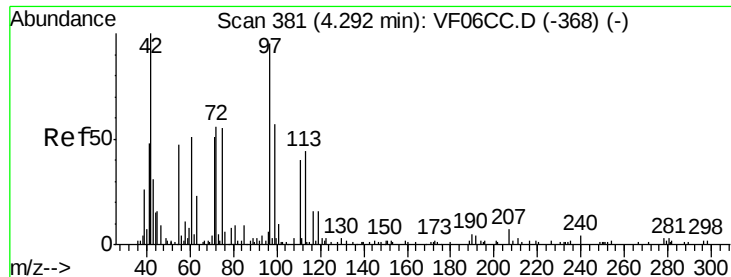
Tot Ion: 84 Resp: 1075
Ion Ratio Lower Upper
84 100
49 12.2 82.6 123.8#
51 57.9 25.0 37.4#
86 17.7 51.5 77.3#



#25
2-Butanone
Concen: 1.706 ug/l
RT: 4.51 min Scan# 404
Delta R.T. -0.04 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 43 Resp: 1444
Ion Ratio Lower Upper
43 100
72 30.4 21.4 32.0

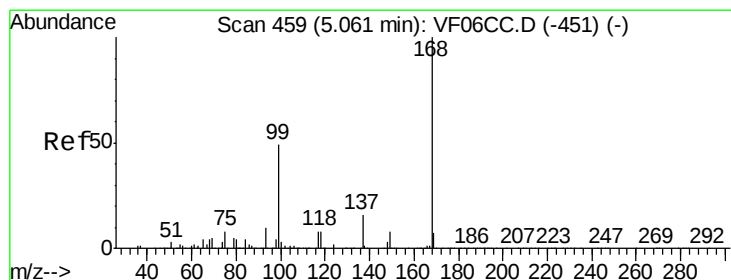
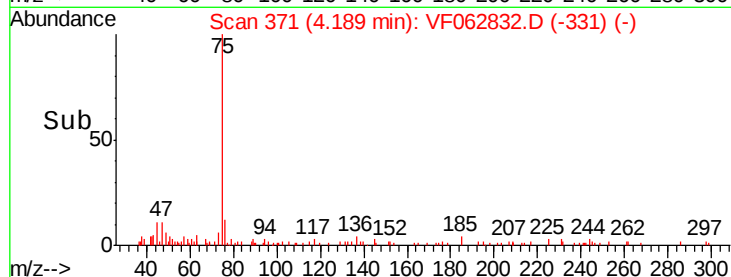
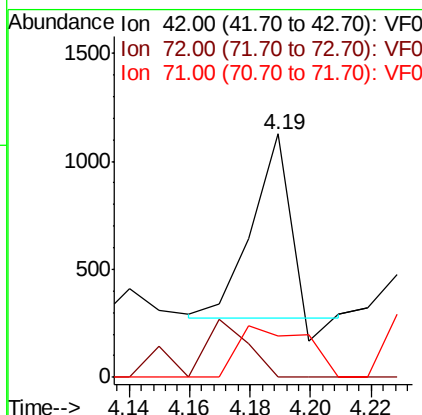
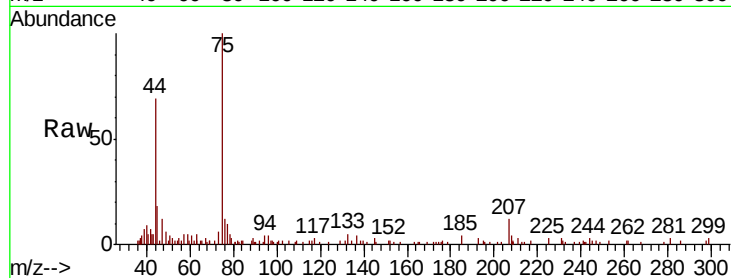




#29
Tetrahydrofuran
Concen: 2.184 ug/l
RT: 4.19 min Scan# 371
Delta R.T. -0.11 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

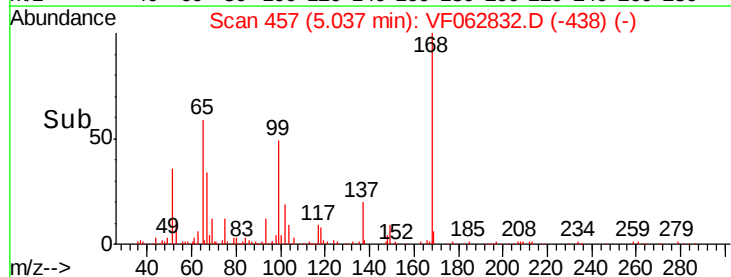
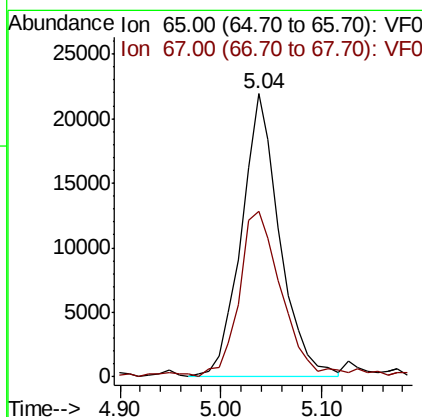
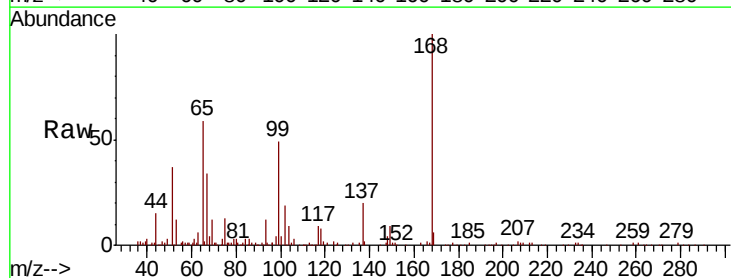
Instrument :
MSVOA_F
ClientSampleId :

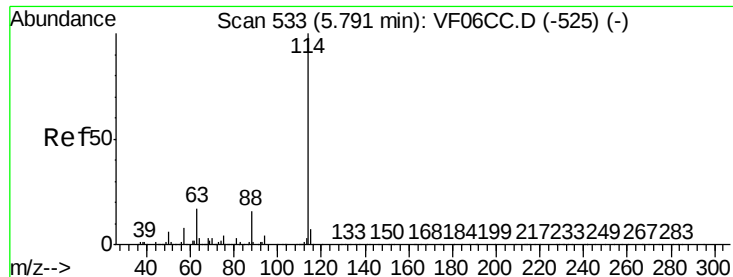
Tot Ion: 42 Resp: 707
Ion Ratio Lower Upper
42 100
72 47.4 39.0 58.6
71 52.6 36.9 55.3



#33
1,2-Dichloroethane-d4
Concen: 36.538 ug/l
RT: 5.04 min Scan# 457
Delta R.T. -0.02 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 65 Resp: 58028
Ion Ratio Lower Upper
65 100
67 58.6 0.0 121.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.03 min

Lab File: VF062832.D

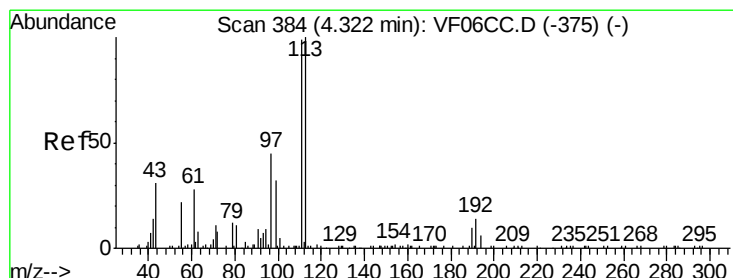
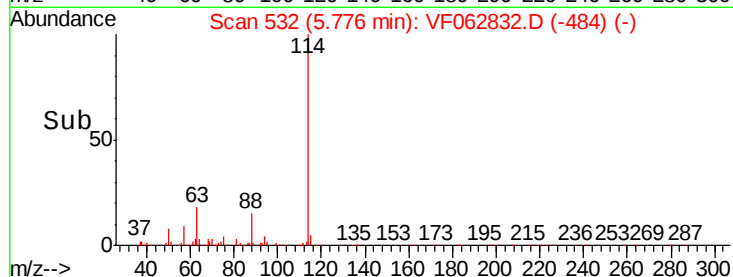
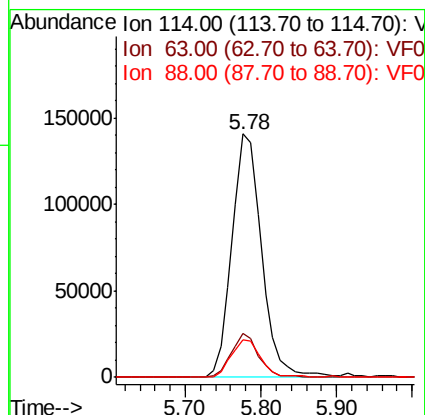
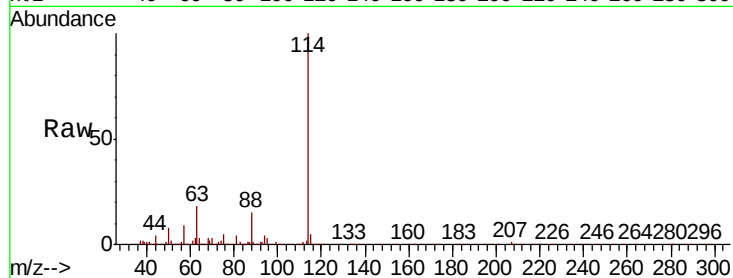
Acq: 3 Jun 2019 16:48

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	114	Resp:	383391
Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	34.2
88	15.4	0.0	31.2



#35

Dibromofluoromethane

Concen: 41.248 ug/l

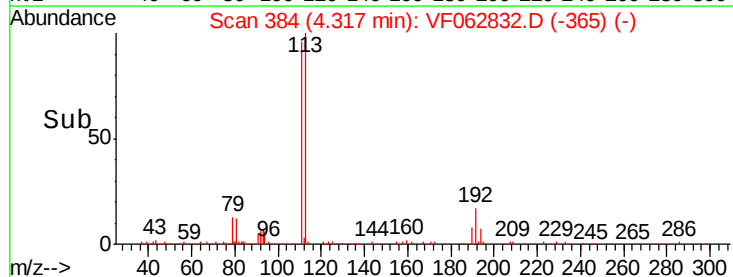
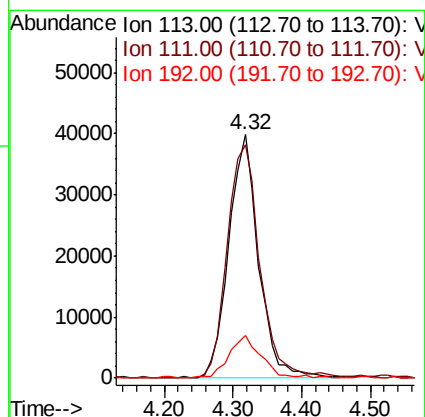
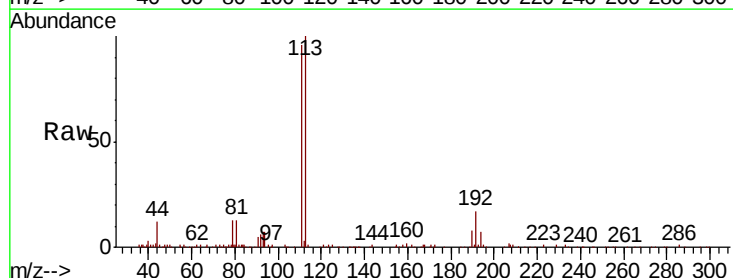
RT: 4.32 min Scan# 384

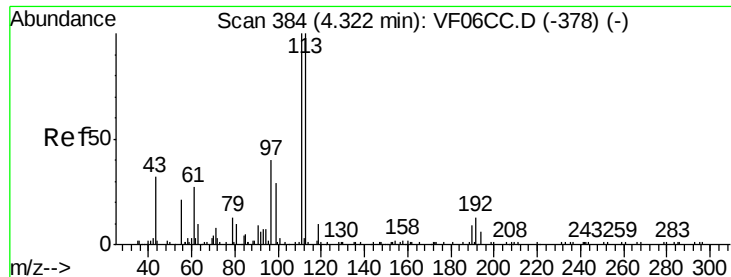
Delta R.T. -0.02 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

Tgt Ion:	113	Resp:	119500
Ion	Ratio	Lower	Upper
113	100		
111	94.9	81.9	122.9
192	17.5	15.1	22.7





#37

Ethyl Acetate

Concen: 1.885 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.02 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

Instrument :
MSVOA_F
ClientSampleId :

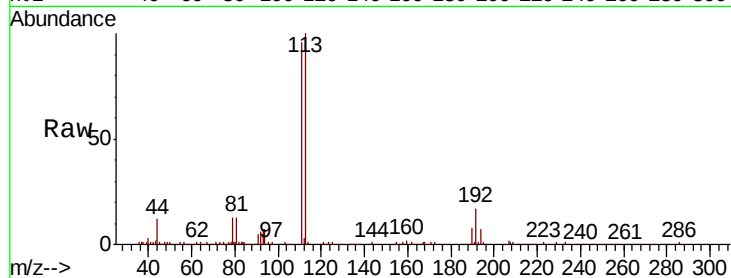
Tot Ion: 43 Resp: 2543

Ion Ratio Lower Upper

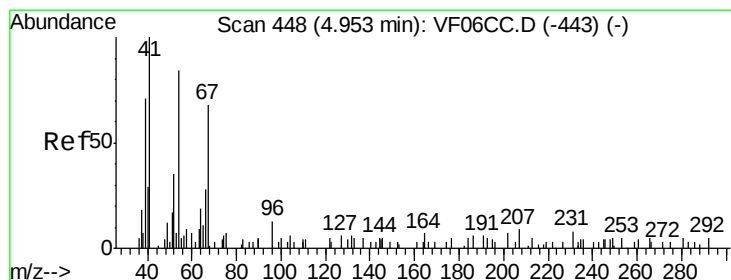
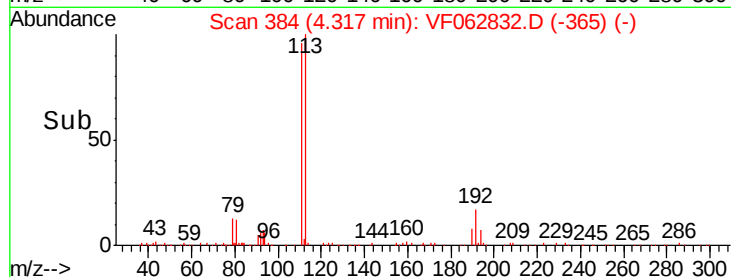
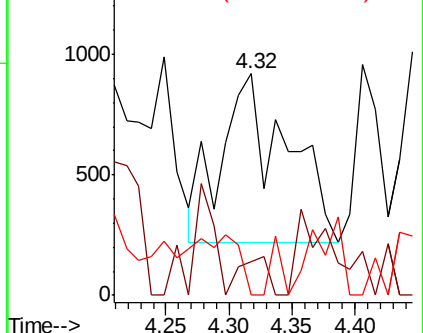
43 100

61 15.3 59.1 88.7#

70 0.0 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



#41

Methacrylonitrile

Concen: 2.275 ug/l

RT: 4.92 min Scan# 445

Delta R.T. -0.04 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

Tgt Ion: 41 Resp: 1706

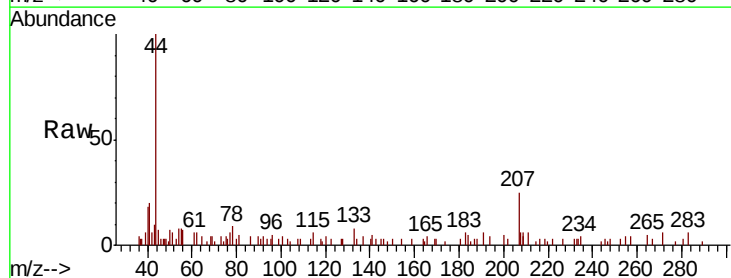
Ion Ratio Lower Upper

41 100

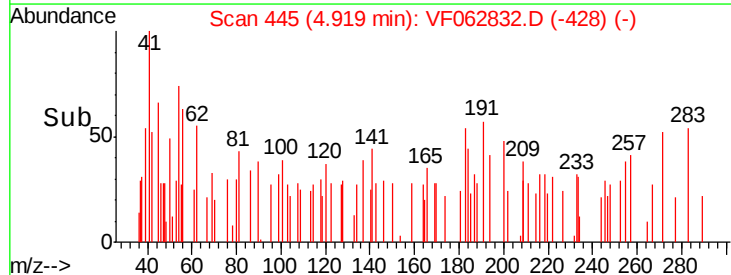
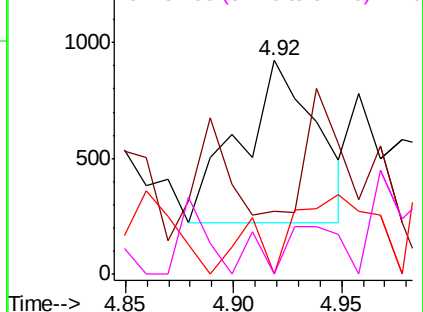
39 29.1 42.0 63.0#

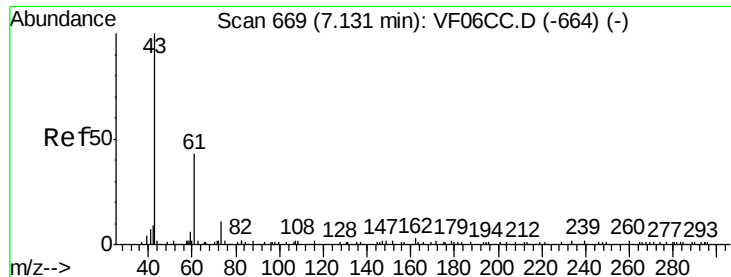
67 0.0 61.4 92.0#

52 0.0 42.1 63.1#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0





#43

Isopropyl Acetate

Concen: 2.403 ug/l

RT: 7.14 min Scan# 670

Delta R.T. 0.00 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

Instrument :

MSVOA_F

ClientSampleId :

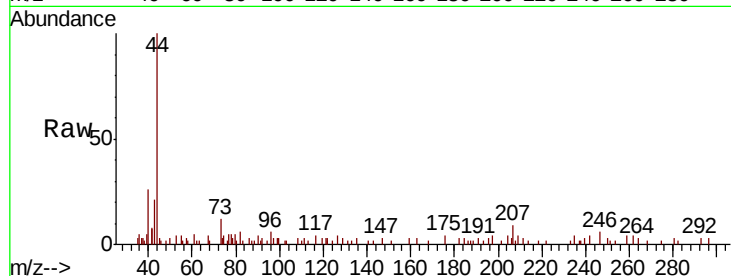
Tot Ion: 43 Resp: 4283

Ion Ratio Lower Upper

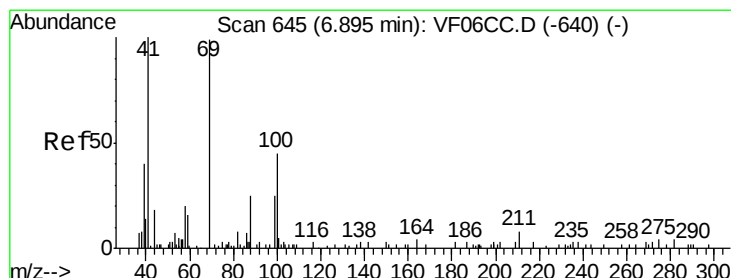
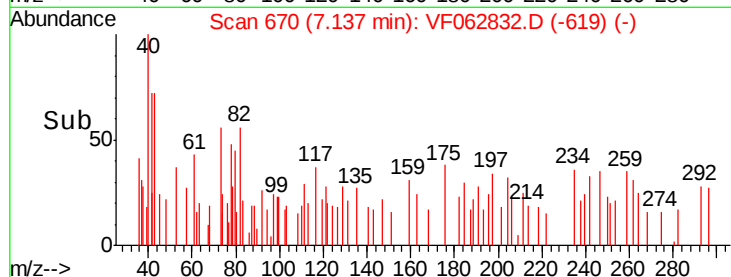
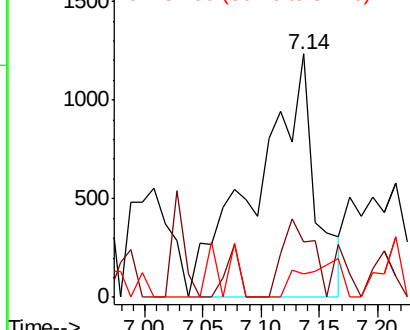
43 100

61 22.6 29.8 44.6#

87 9.9 0.3 0.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0



#48

Methyl methacrylate

Concen: 2.901 ug/l

RT: 6.89 min Scan# 645

Delta R.T. -0.01 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

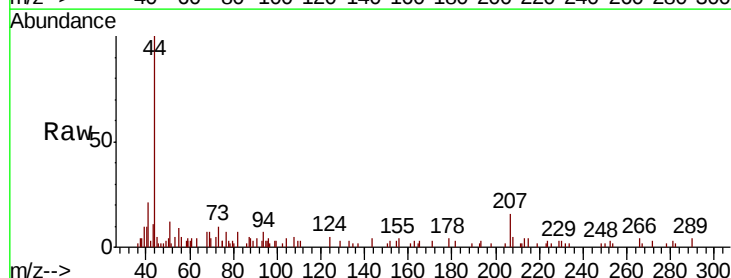
Tgt Ion: 41 Resp: 2665

Ion Ratio Lower Upper

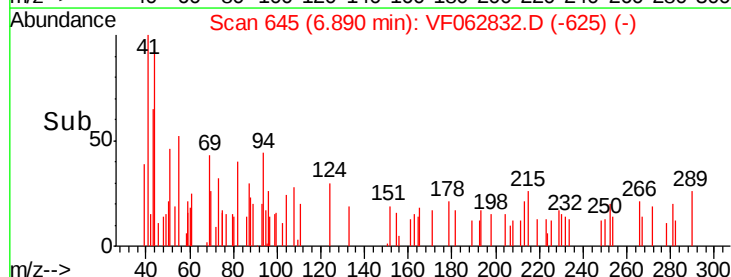
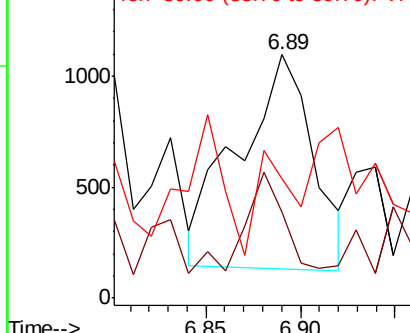
41 100

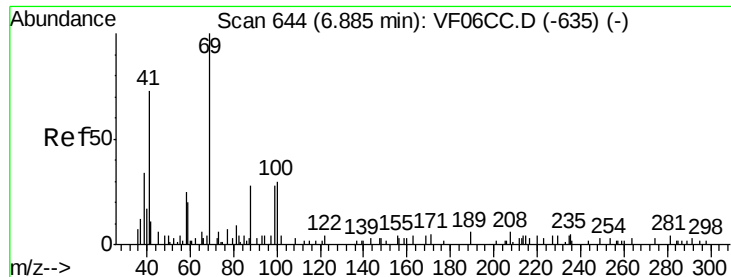
69 35.2 79.4 119.2#

39 48.9 39.8 59.6



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

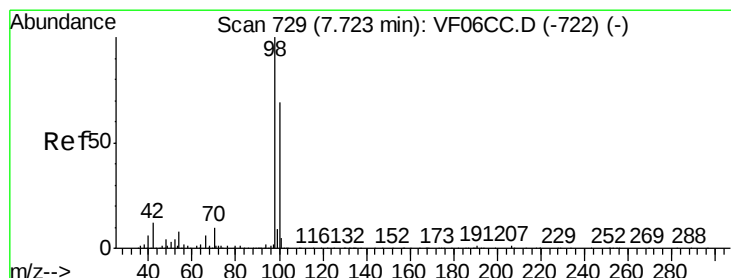
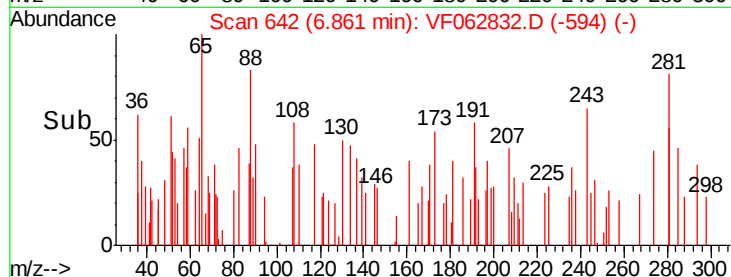
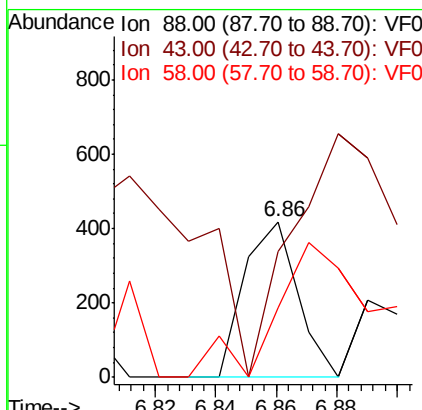
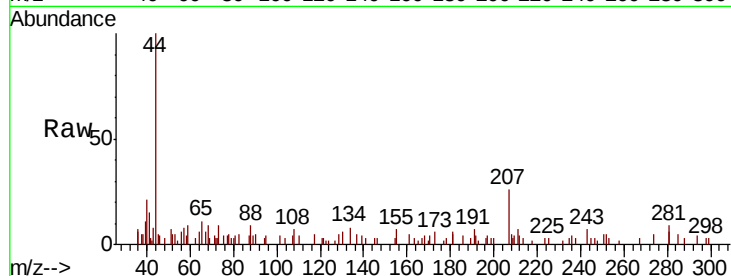




#49
1,4-Dioxane
Concen: 42.123 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

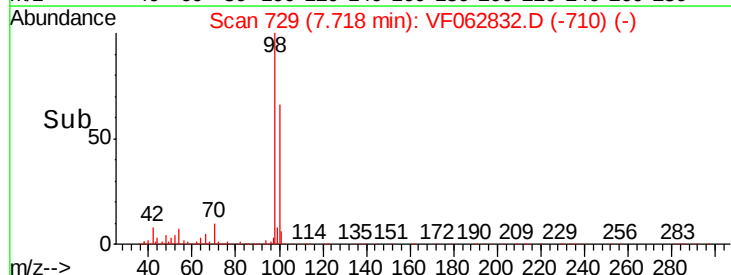
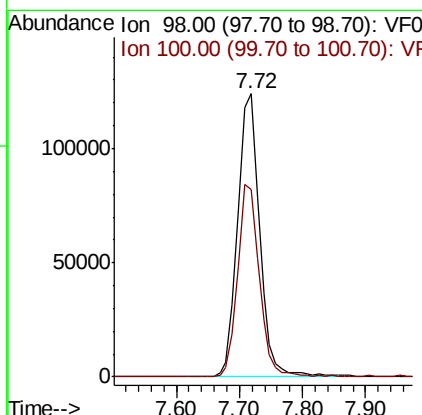
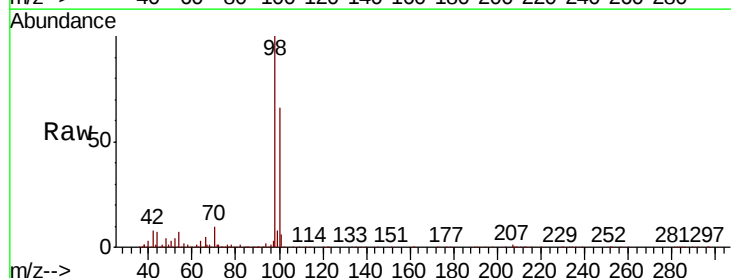
Instrument :
MSVOA_F
ClientSampleId :

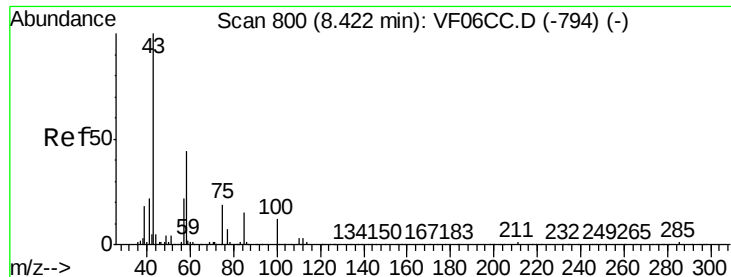
Tot Ion: 88 Resp: 510
Ion Ratio Lower Upper
88 100
43 81.1 34.8 52.2#
58 45.0 59.9 89.9#



#50
Toluene-d8
Concen: 40.789 ug/l
RT: 7.72 min Scan# 729
Delta R.T. -0.02 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 98 Resp: 298827
Ion Ratio Lower Upper
98 100
100 66.2 59.8 89.8

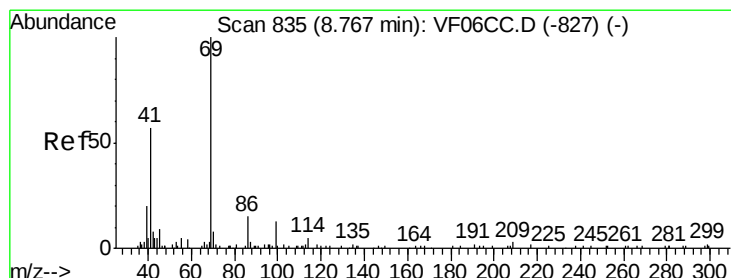
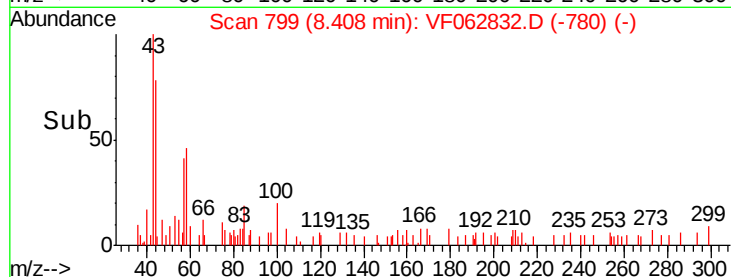
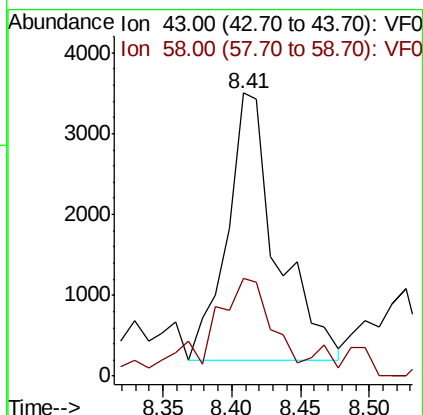
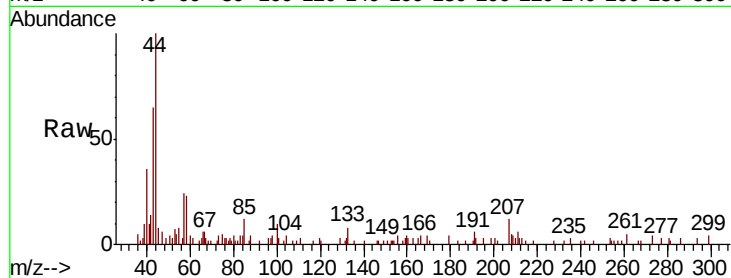




#51
4-Methyl-2-Pentanone
Concen: 6.564 ug/l
RT: 8.41 min Scan# 799
Delta R.T. -0.02 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

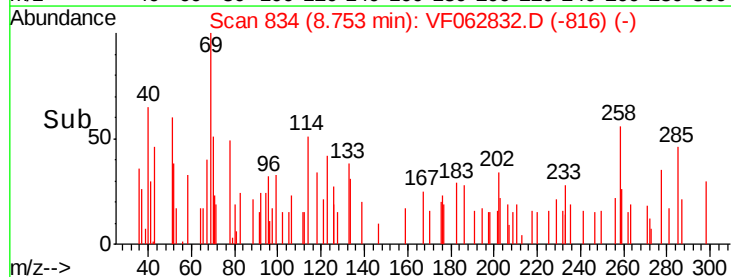
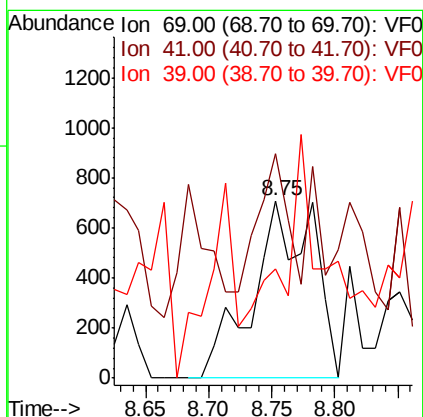
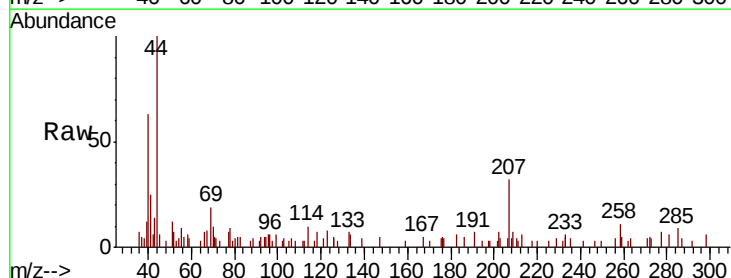
Instrument :
MSVOA_F
ClientSampleId :

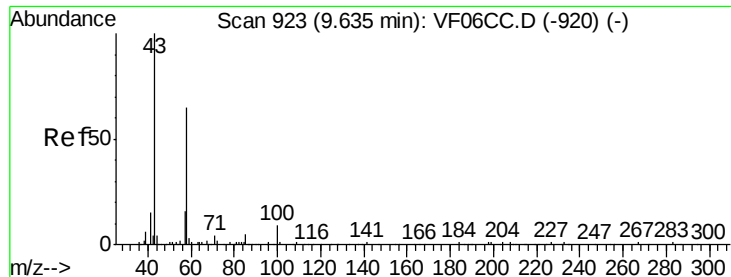
Tot Ion: 43 Resp: 8352
Ion Ratio Lower Upper
43 100
58 34.8 35.5 53.3#



#56
Ethyl methacrylate
Concen: 1.333 ug/l
RT: 8.75 min Scan# 834
Delta R.T. -0.03 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 69 Resp: 2364
Ion Ratio Lower Upper
69 100
41 126.7 46.6 69.8#
39 61.4 19.6 29.4#

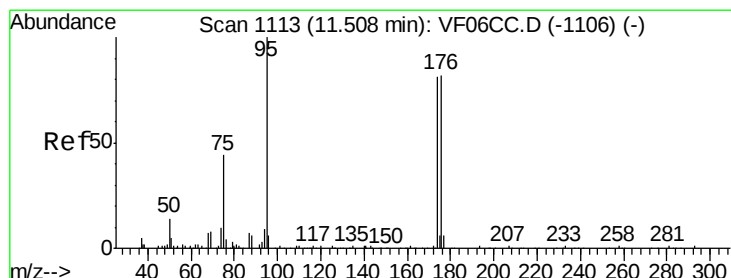
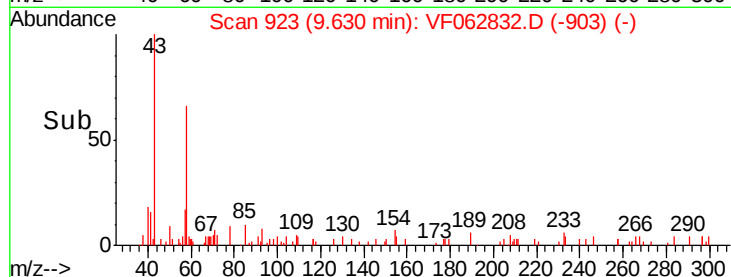
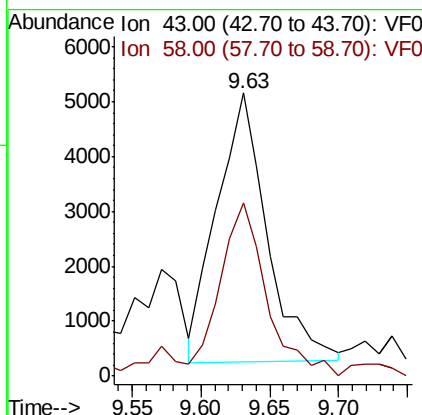
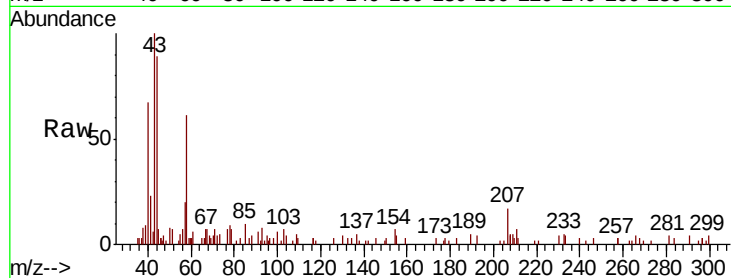




#59
2-Hexanone
Concen: 13.704 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.01 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

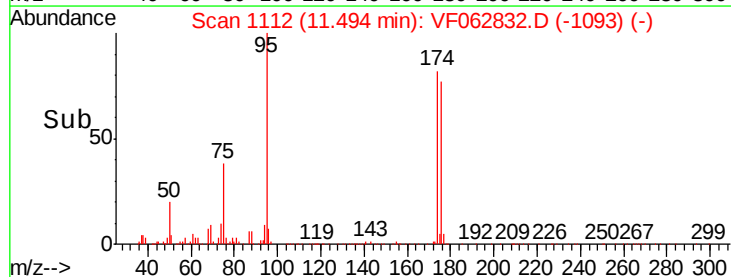
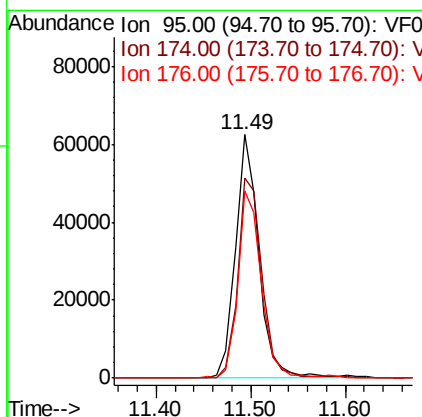
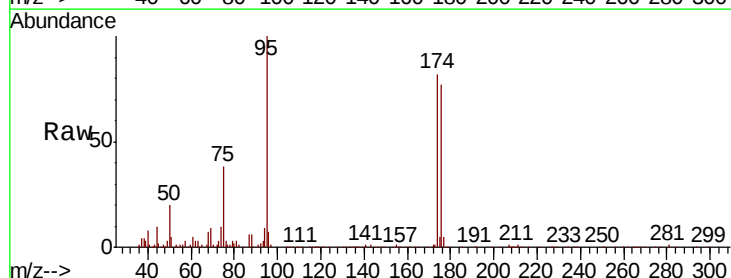
Instrument :
MSVOA_F
ClientSampled :

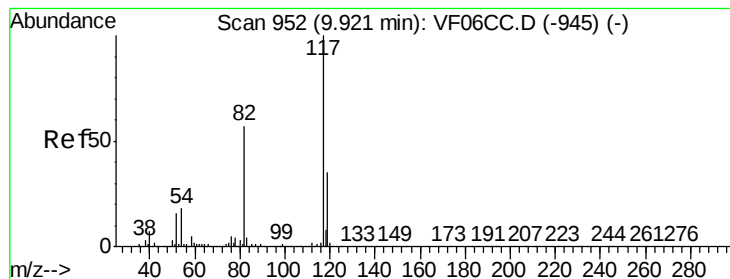
Tot Ion: 43 Resp: 12429
Ion Ratio Lower Upper
43 100
58 61.3 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 40.529 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.02 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 95 Resp: 106806
Ion Ratio Lower Upper
95 100
174 82.0 0.0 170.6
176 77.0 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: VF062832.D

Acq: 3 Jun 2019 16:48

Instrument :

MSVOA_F

ClientSampleId :

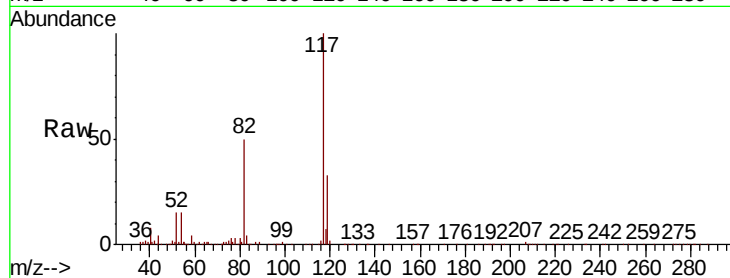
Tot Ion:117 Resp: 288327

Ion Ratio Lower Upper

117 100

82 49.6 42.4 63.6

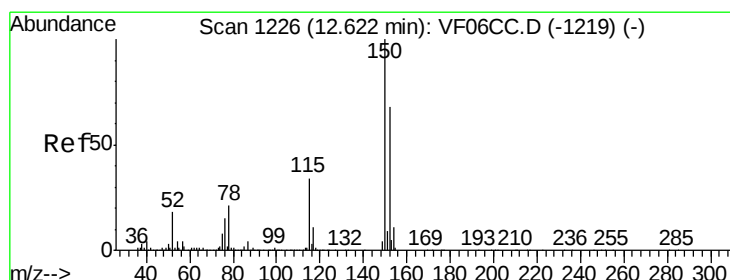
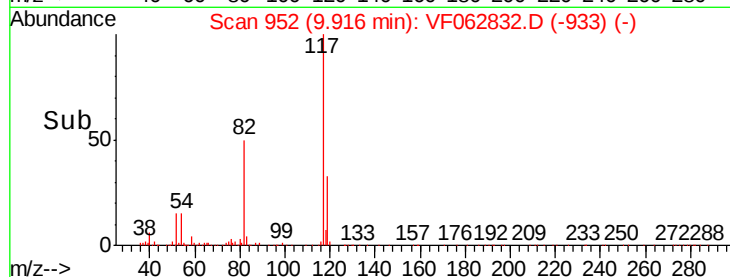
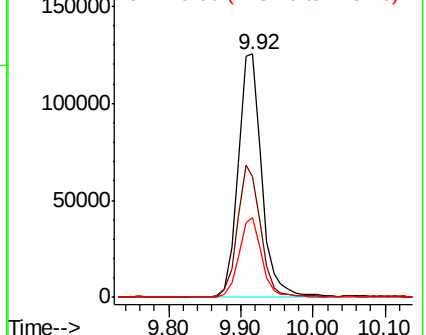
119 33.0 27.1 40.7



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: 12.61 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

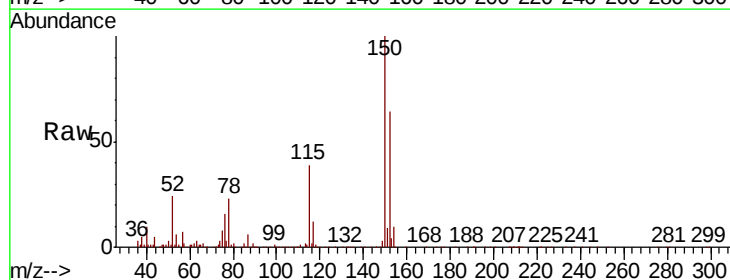
Tgt Ion:152 Resp: 117471

Ion Ratio Lower Upper

152 100

115 61.9 24.6 74.0

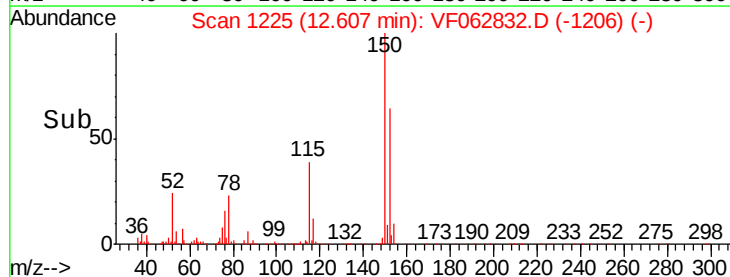
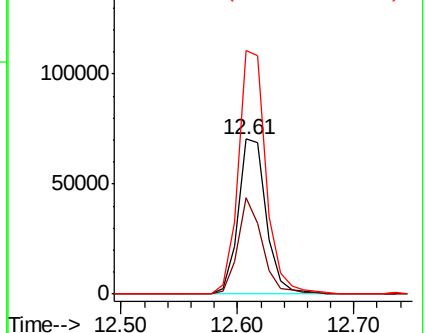
150 156.8 0.0 290.6

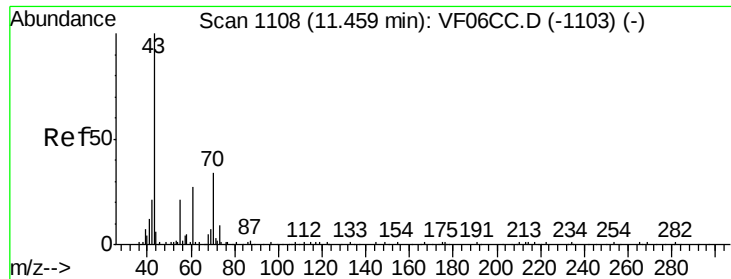


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

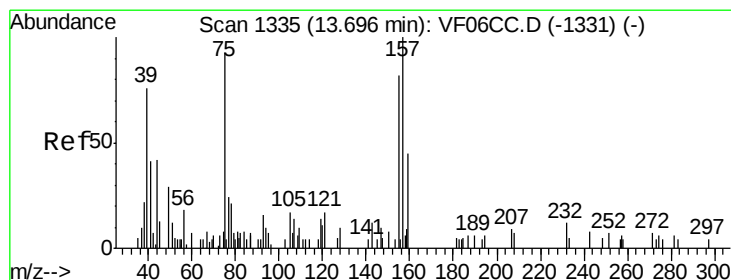
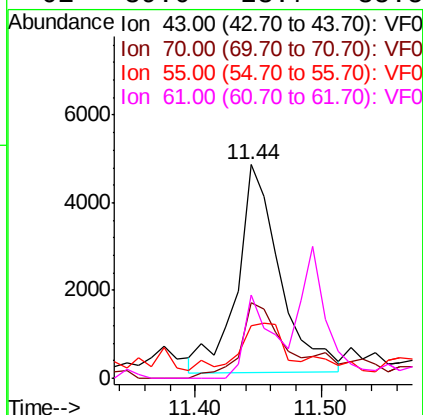
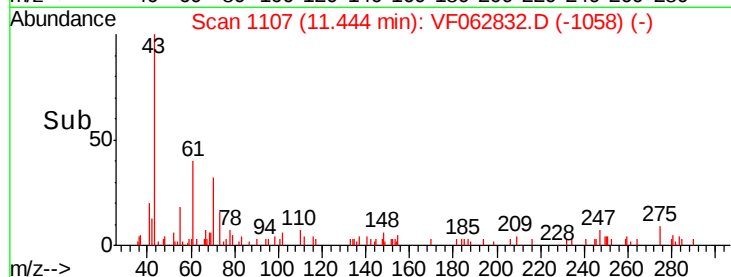
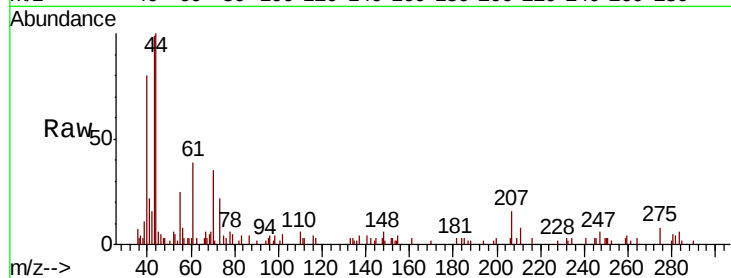




#74
N-amvl acetate
Concen: 4.826 ug/l
RT: 11.44 min Scan# 1107
Delta R.T. -0.02 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

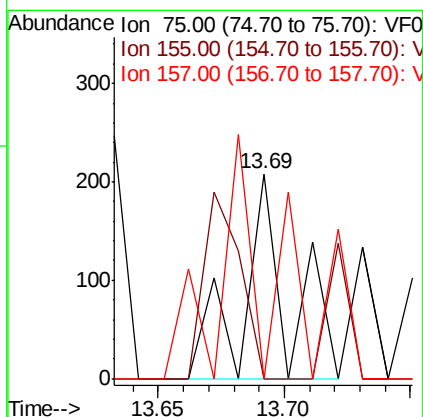
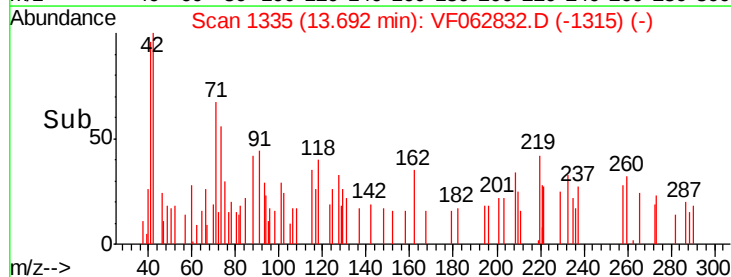
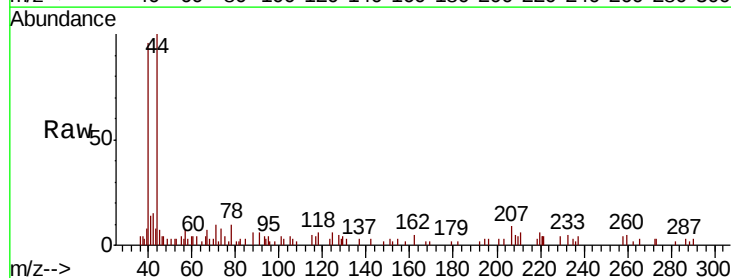
Instrument :
MSVOA_F
ClientSampleId :

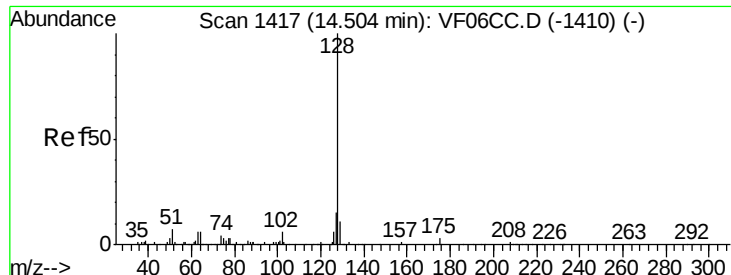
Tot Ion: 43 Resp: 11150
Ion Ratio Lower Upper
43 100
70 35.6 32.9 49.3
55 24.8 17.3 25.9
61 39.0 23.7 35.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.395 ug/l
RT: 13.69 min Scan# 1335
Delta R.T. -0.01 min
Lab File: VF062832.D
Acq: 3 Jun 2019 16:48

Tgt Ion: 75 Resp: 266
Ion Ratio Lower Upper
75 100
155 0.0 51.7 155.1#
157 0.0 66.8 200.6#





#95

Naphthalene

Concen: 3.033 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.02 min

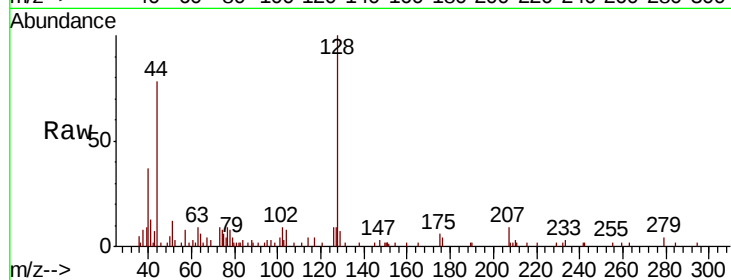
Lab File: VF062832.D

Acq: 3 Jun 2019 16:48

Instrument :

MSVOA_F

ClientSampleId :



Tot Ion:128 Resp: 10892

Ion Ratio Lower Upper

128 100

127 8.8 9.7 14.5#

129 6.8 9.4 14.2#

