

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060719\
 Data File : VF062898.D
 Acq On : 7 Jun 2019 14:23
 Operator : FY/SY
 Sample : K3160-01RE
 Misc : 7.75g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jun 08 00:39:39 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

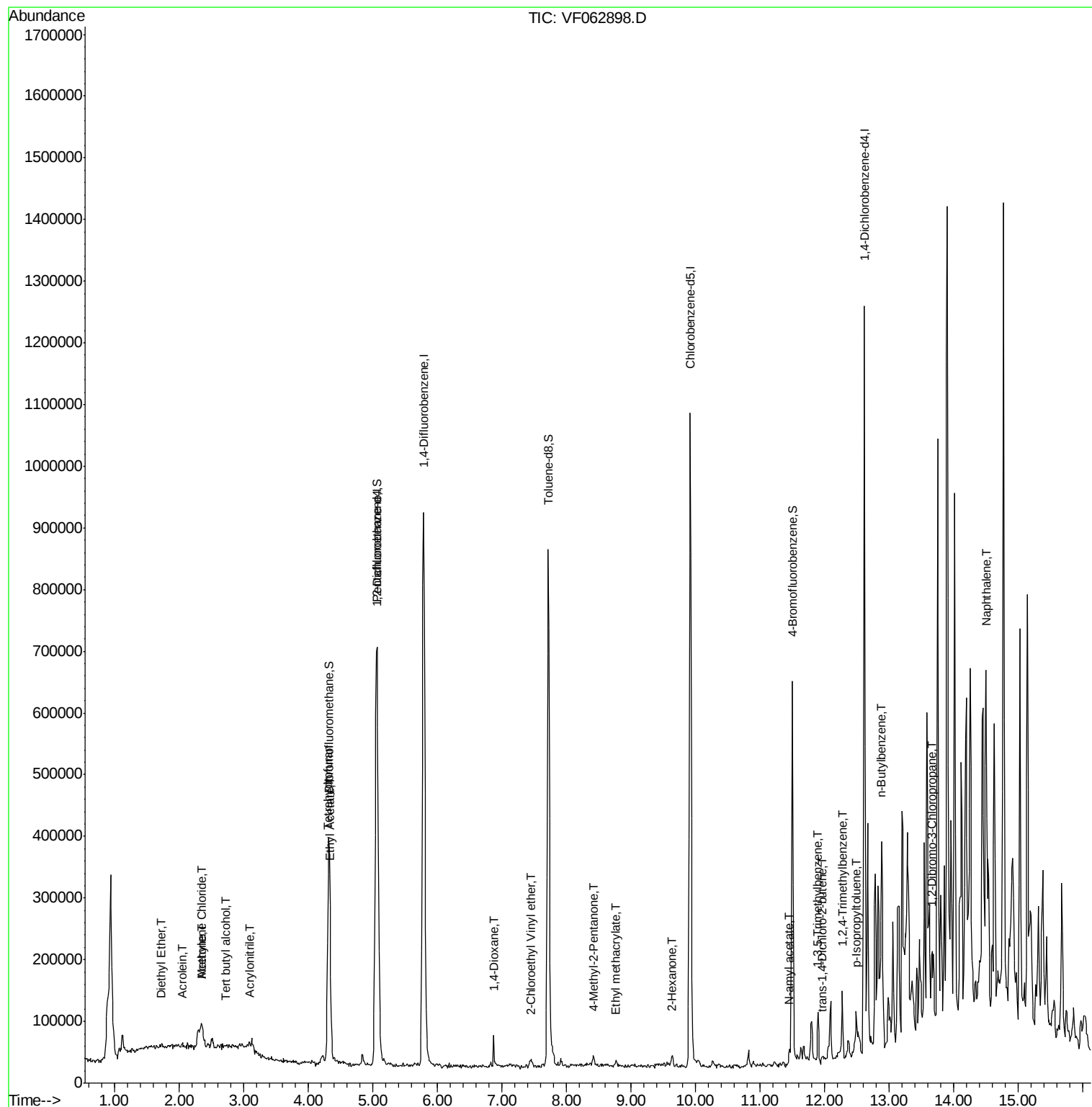
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	640606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	1127696	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.92	117	793987	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	314069	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	193083	43.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	87.18%	
35) Dibromofluoromethane	4.32	113	372176	43.68	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	87.36%	
50) Toluene-d8	7.72	98	747198	34.67	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	69.34%	
62) 4-Bromofluorobenzene	11.50	95	242493	31.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	62.56%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.02	85	939	Below Cal		97
8) Diethyl Ether	1.72	74	2736	1.491 ug/l		53
11) Tert butyl alcohol	2.72	59	858	3.197 ug/l #		18
13) Acrolein	2.05	56	1533	6.324 ug/l		86
15) Acrylonitrile	3.09	53	1341	1.330 ug/l #		24
16) Acetone	2.36	43	22894	22.580 ug/l #		88
20) Methylene Chloride	2.34	84	20266	1.069 ug/l #		93
29) Tetrahydrofuran	4.30	42	2376	2.631 ug/l #		64
37) Ethyl Acetate	4.35	43	5430	1.368 ug/l #		24
49) 1,4-Dioxane	6.86	88	103	2.892 ug/l #		1
51) 4-Methyl-2-Pentanone	8.42	43	15186	4.057 ug/l #		75
56) Ethyl methacrylate	8.76	69	5314	1.019 ug/l #		31
58) 2-Chloroethyl Vinyl ether	7.45	63	3913	2.146 ug/l #		77
59) 2-Hexanone	9.64	43	19269	7.223 ug/l		80
74) N-amyl acetate	11.45	43	16237	2.629 ug/l		98
80) 1,3,5-Trimethylbenzene	11.90	105	41024	2.289 ug/l		80
81) trans-1,4-Dichloro-2-buten	11.96	75	1466	1.116 ug/l #		53
84) 1,2,4-Trimethylbenzene	12.27	105	36005	2.119 ug/l		86
86) p-Isopropyltoluene	12.49	119	45099	2.316 ug/l		92
89) n-Butylbenzene	12.89	91	67953	3.468 ug/l #		61
92) 1,2-Dibromo-3-Chloropropan	13.66	75	1375	2.697 ug/l #		1
95) Naphthalene	14.49	128	122622	12.772 ug/l #		85

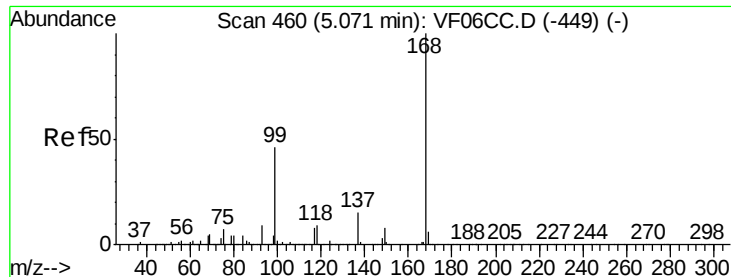
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. -0.01 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

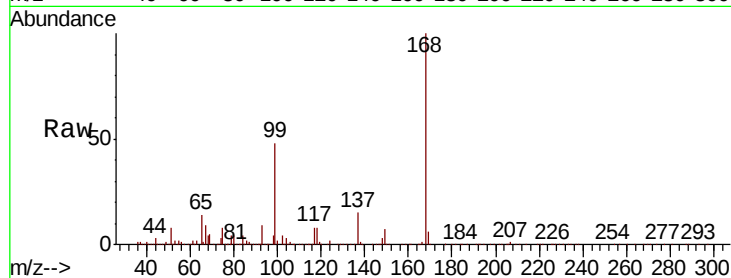
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 640606

Ion Ratio Lower Upper

168 100

99 48.1 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

250000

200000

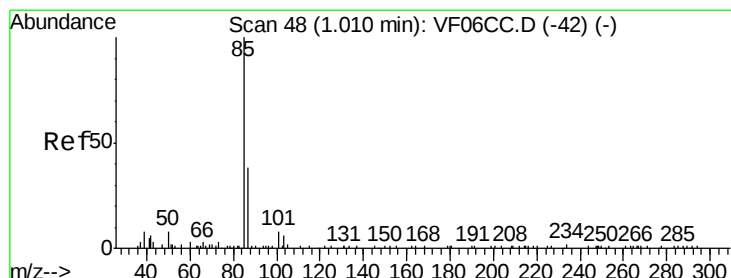
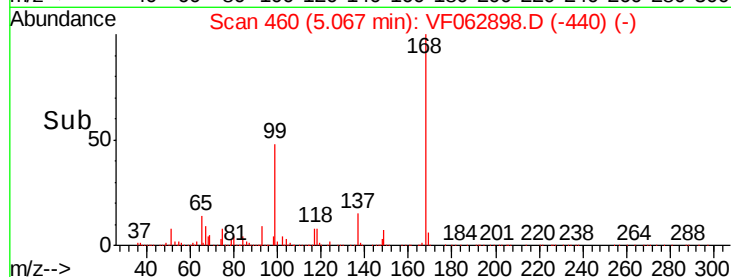
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.02 min Scan# 49

Delta R.T. 0.00 min

Lab File: VF062898.D

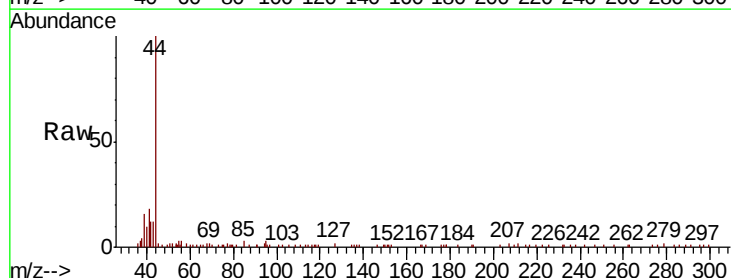
Acq: 7 Jun 2019 14:23

Tgt Ion: 85 Resp: 939

Ion Ratio Lower Upper

85 100

87 37.2 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.02

600

500

400

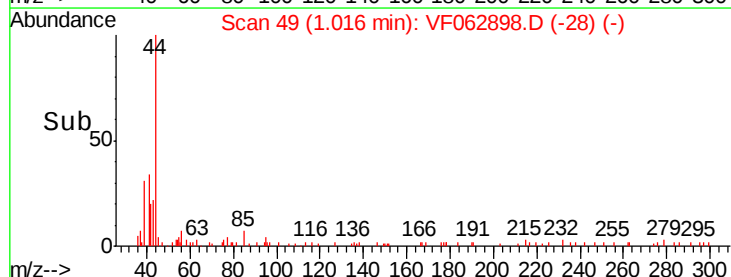
300

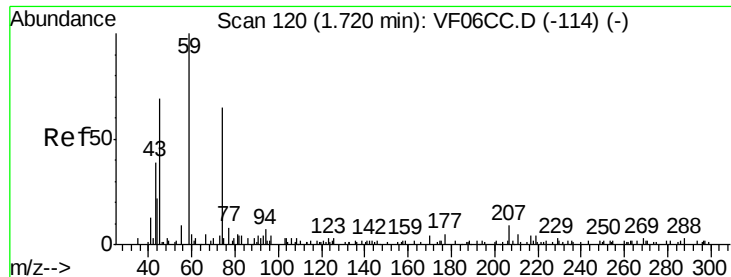
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.491 ug/l

RT: 1.72 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

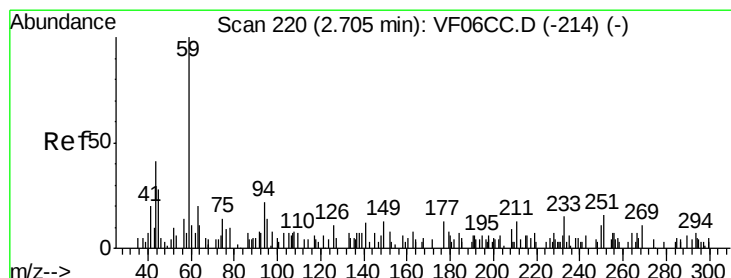
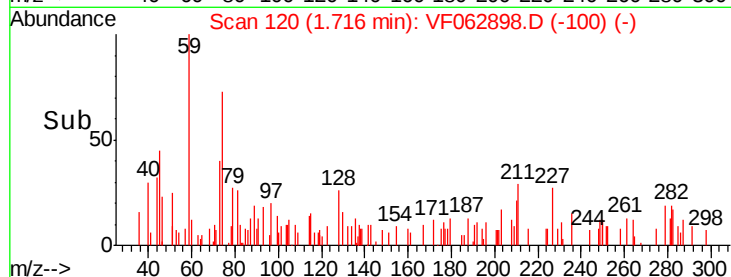
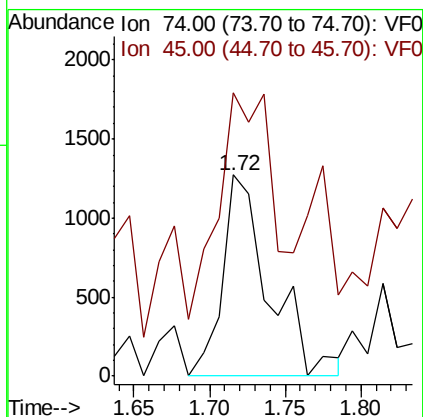
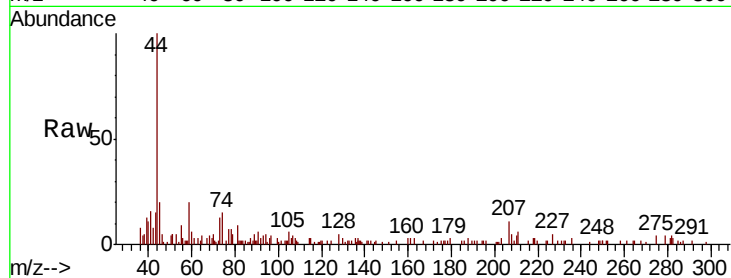
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 74 Resp: 2736

Ion Ratio Lower Upper

74 100

45 140.8 47.5 142.5



#11

Tert butyl alcohol

Concen: 3.197 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.00 min

Lab File: VF062898.D

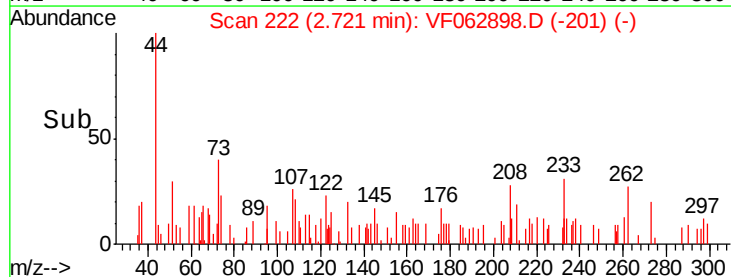
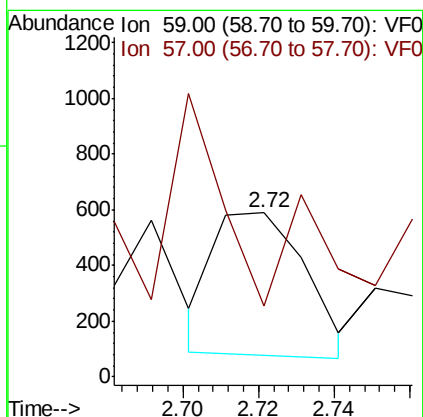
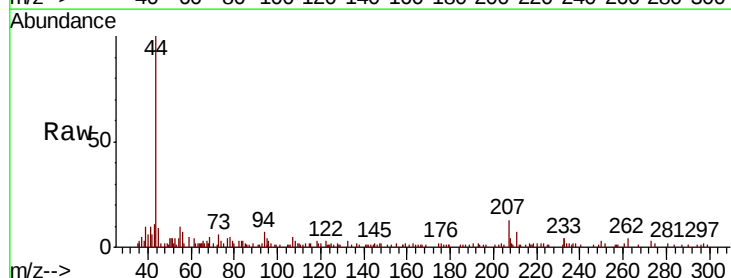
Acq: 7 Jun 2019 14:23

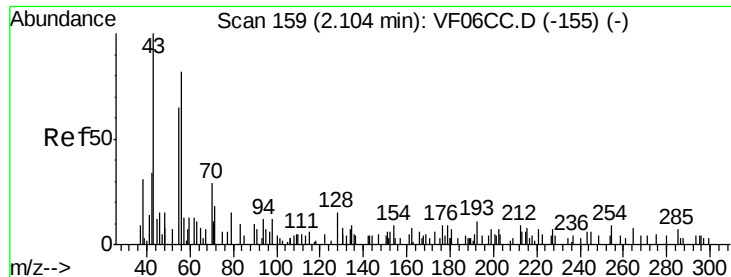
Tgt Ion: 59 Resp: 858

Ion Ratio Lower Upper

59 100

57 42.9 9.2 13.8#

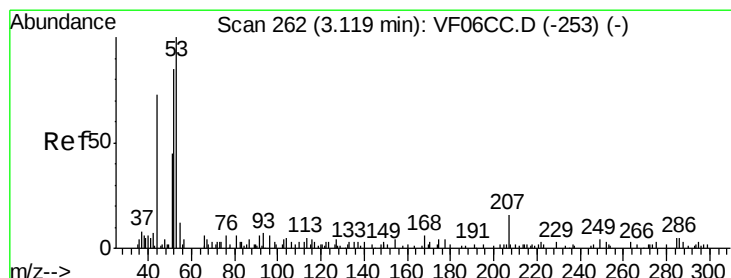
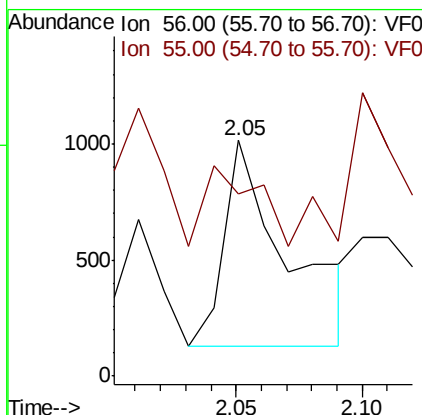
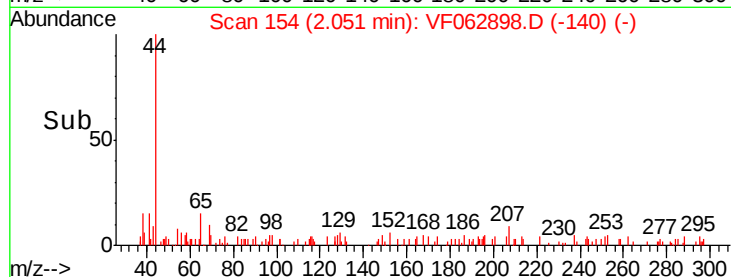
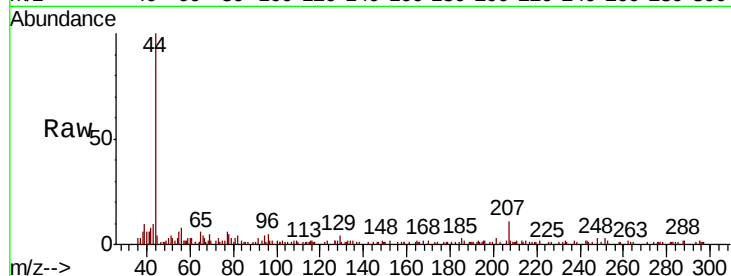




#13
Acrolein
Concen: 6.324 ug/l
RT: 2.05 min Scan# 154
Delta R.T. -0.06 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

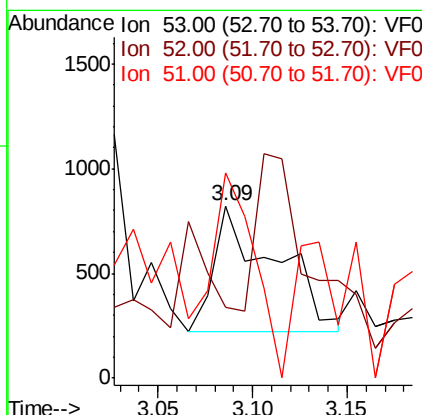
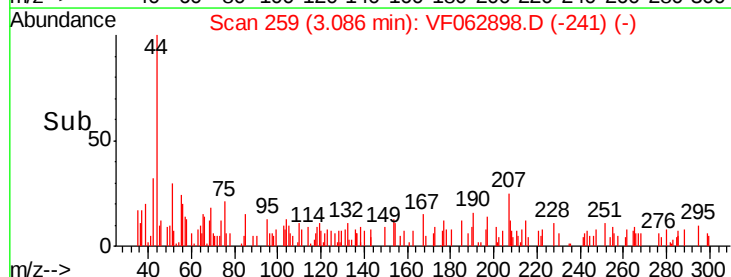
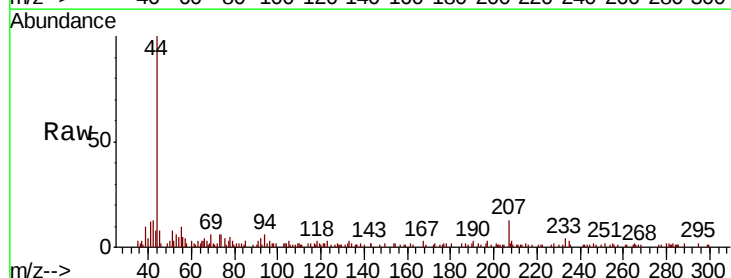
Instrument :
MSVOA_F
ClientSampleId :

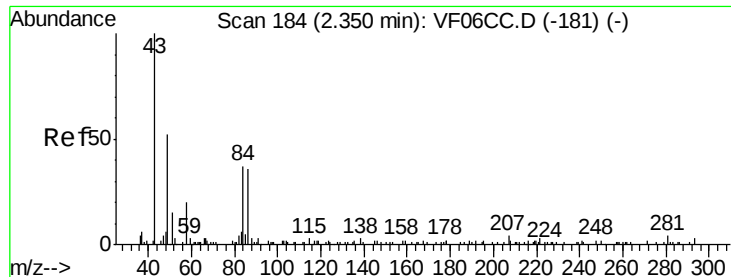
Tot Ion: 56 Resp: 1533
Ion Ratio Lower Upper
56 100
55 77.3 52.9 79.3



#15
Acrylonitrile
Concen: 1.330 ug/l
RT: 3.09 min Scan# 259
Delta R.T. -0.03 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

Tgt Ion: 53 Resp: 1341
Ion Ratio Lower Upper
53 100
52 41.4 68.1 102.1#
51 119.0 27.7 41.5#





#16

Acetone

Concen: 22.580 ug/l

RT: 2.36 min Scan# 185

Delta R.T. -0.01 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

Instrument :

MSVOA_F

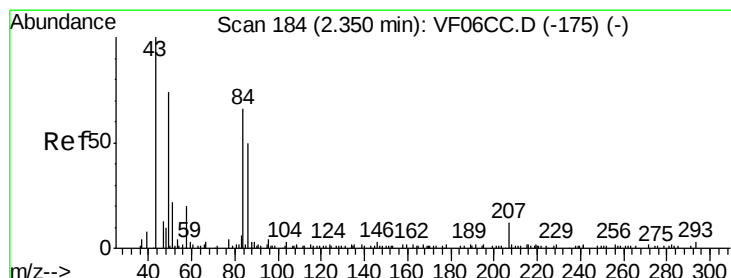
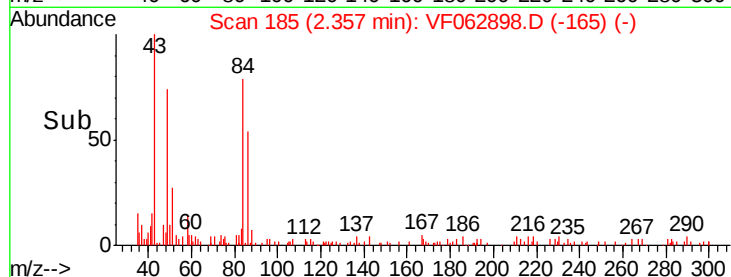
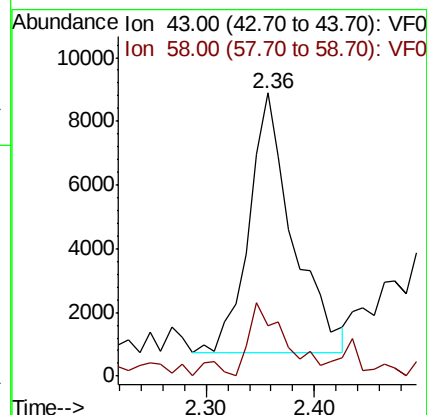
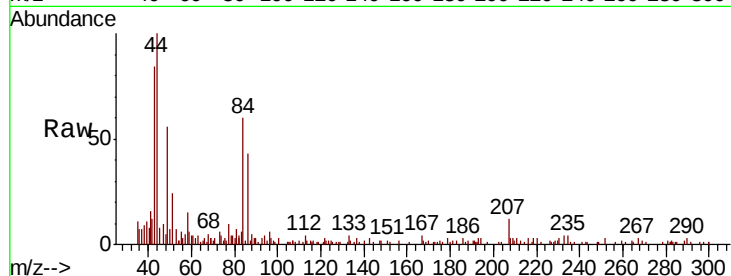
ClientSampleId :

Tot Ion: 43 Resp: 22894

Ion Ratio Lower Upper

43 100

58 17.9 19.0 28.4#



#20

Methylene Chloride

Concen: 1.069 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.03 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

Tgt Ion: 84 Resp: 20266

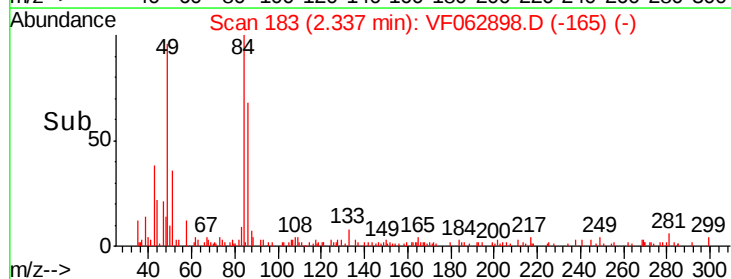
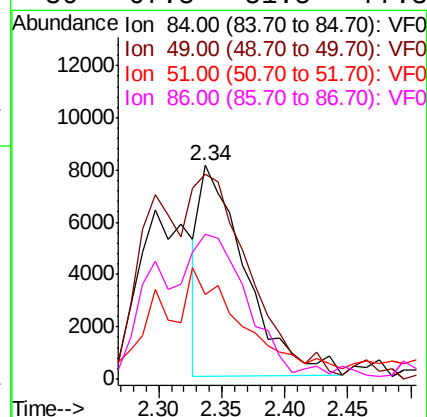
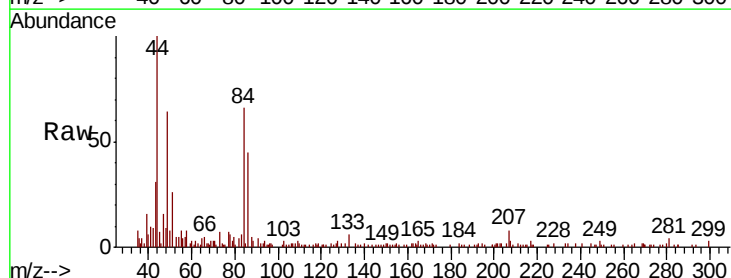
Ion Ratio Lower Upper

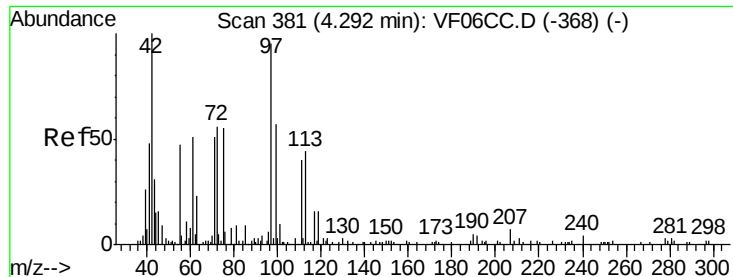
84 100

49 95.8 82.6 123.8

51 39.3 25.0 37.4#

86 67.8 51.5 77.3

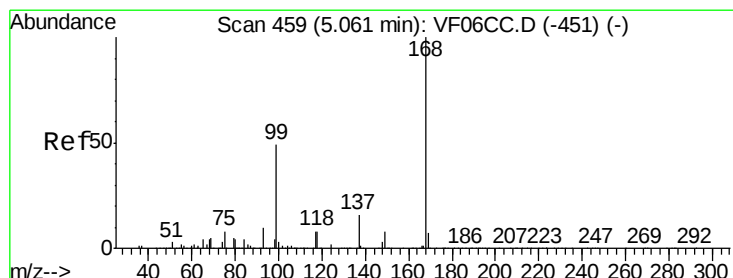
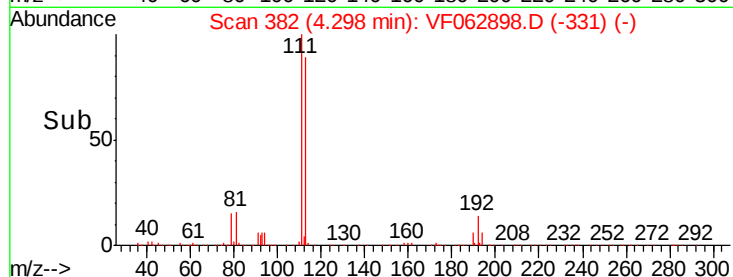
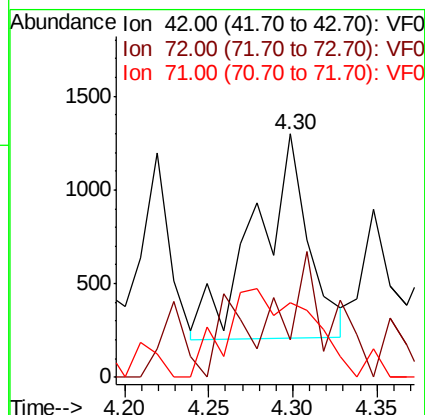
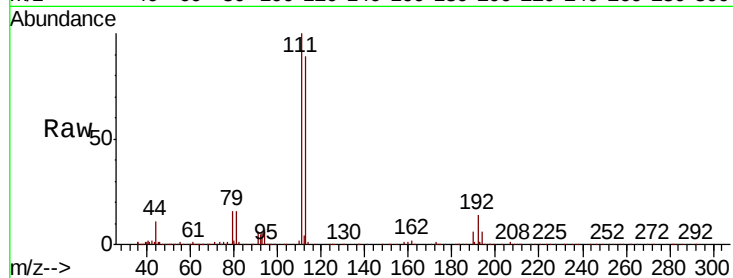




#29
Tetrahydrofuran
Concen: 2.631 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.00 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

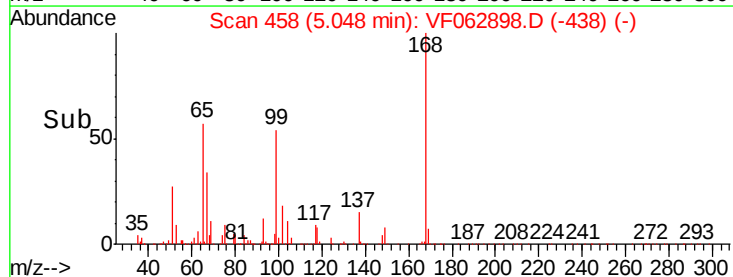
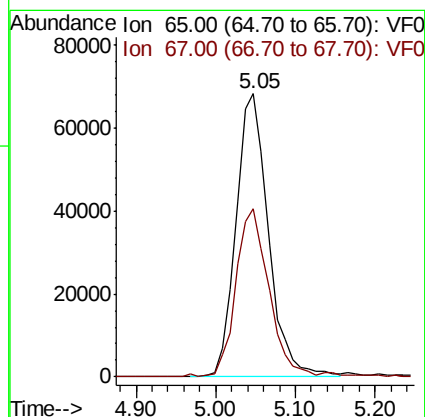
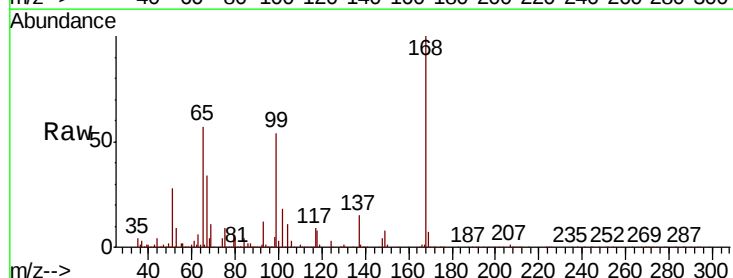
Instrument :
MSVOA_F
ClientSampleId :

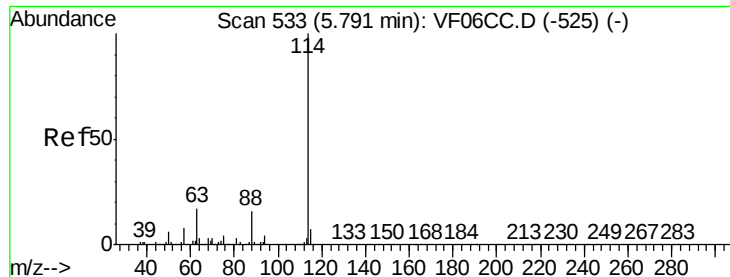
Tot Ion: 42 Resp: 2376
Ion Ratio Lower Upper
42 100
72 51.6 39.0 58.6
71 0.0 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 43.587 ug/l
RT: 5.05 min Scan# 458
Delta R.T. -0.01 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

Tgt Ion: 65 Resp: 193083
Ion Ratio Lower Upper
65 100
67 59.3 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: VF062898.D

Acq: 7 Jun 2019 14:23

Instrument :

MSVOA_F

ClientSampleId :

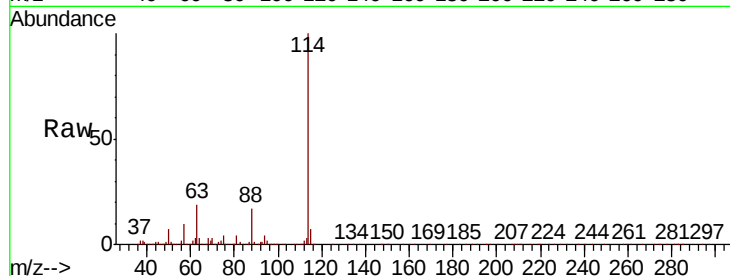
Tot Ion:114 Resp: 1127696

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.2

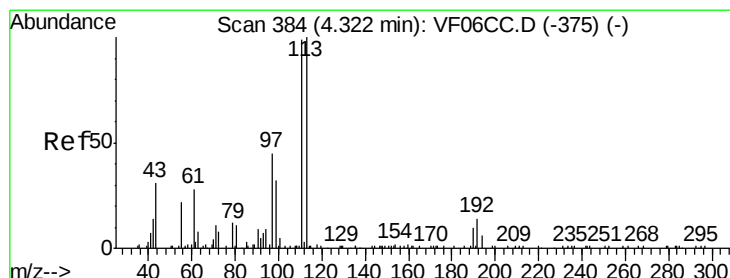
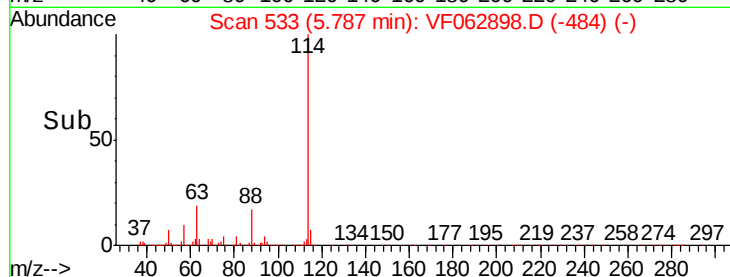
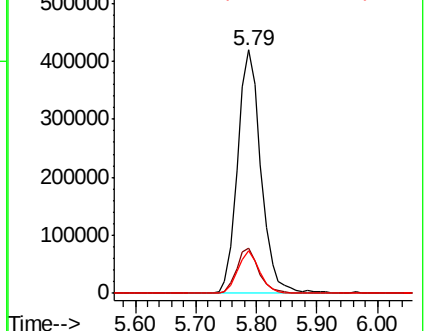
88 17.4 0.0 31.2



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: 43.675 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.02 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

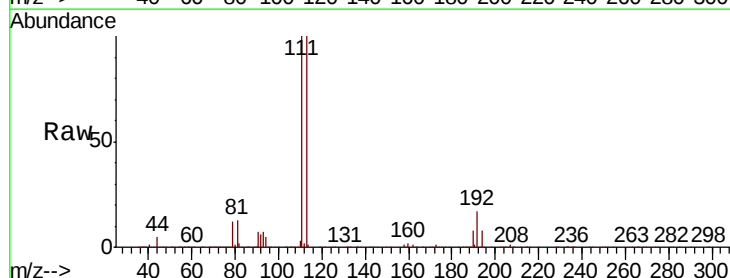
Tgt Ion:113 Resp: 372176

Ion Ratio Lower Upper

113 100

111 100.1 81.9 122.9

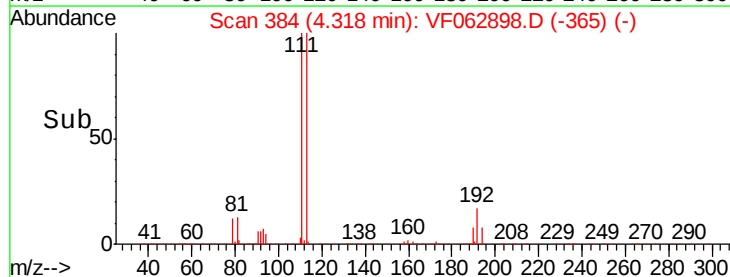
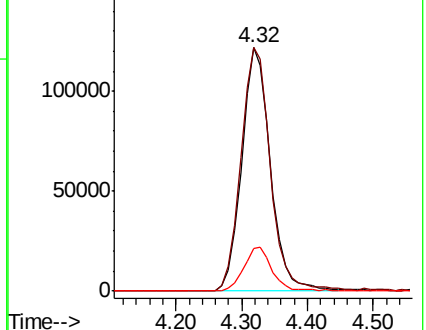
192 17.4 15.1 22.7

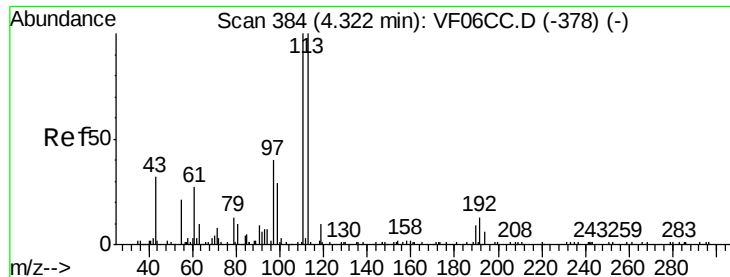


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

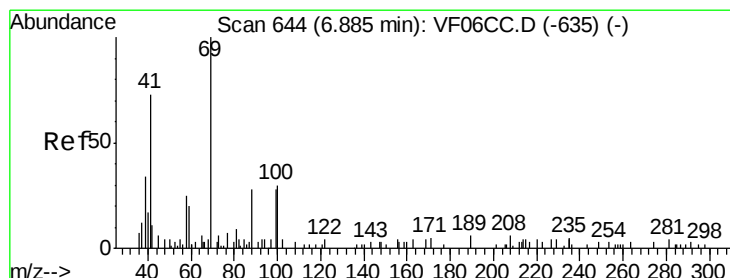
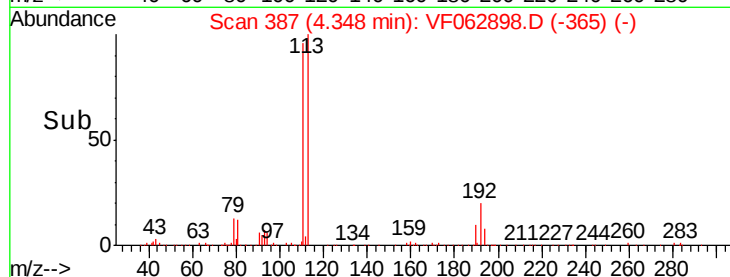
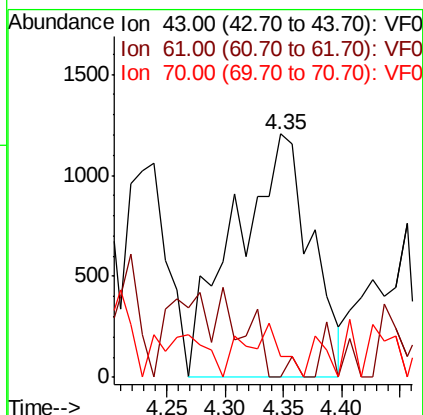
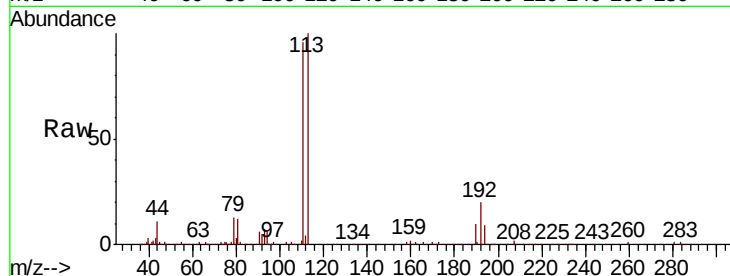




#37
Ethyl Acetate
Concen: 1.368 ug/l
RT: 4.35 min Scan# 387
Delta R.T. 0.01 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

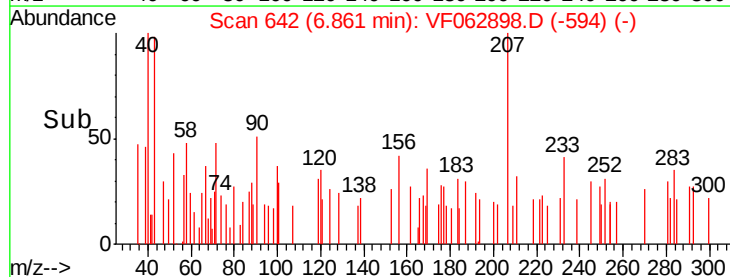
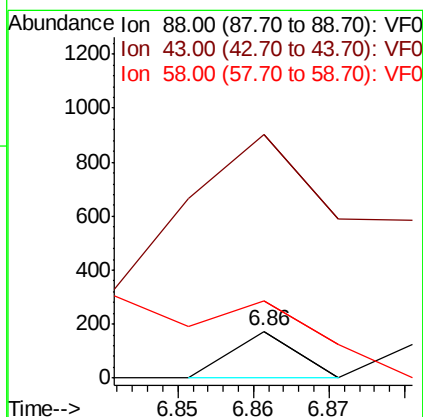
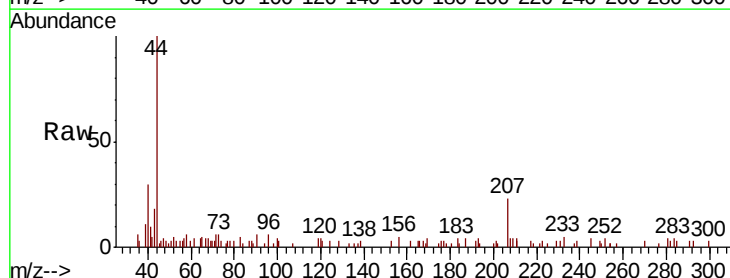
Instrument :
MSVOA_F
ClientSampled :

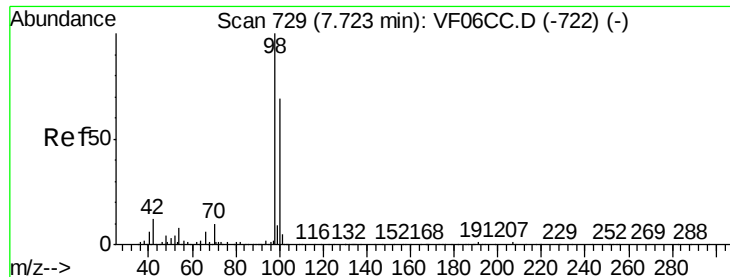
Tot Ion: 43 Resp: 5430
Ion Ratio Lower Upper
43 100
61 0.0 59.1 88.7#
70 8.5 10.1 15.1#



#49
1,4-Dioxane
Concen: 2.892 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.03 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

Tgt Ion: 88 Resp: 103
Ion Ratio Lower Upper
88 100
43 518.4 34.8 52.2#
58 165.5 59.9 89.9#





#50

Toluene-d8

Concen: 34.675 ug/l

RT: 7.72 min Scan# 729

Delta R.T. -0.02 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

Instrument :

MSVOA_F

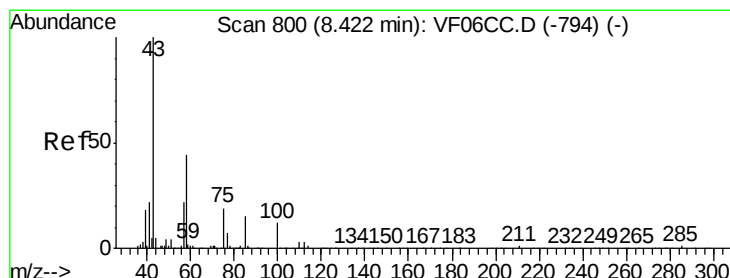
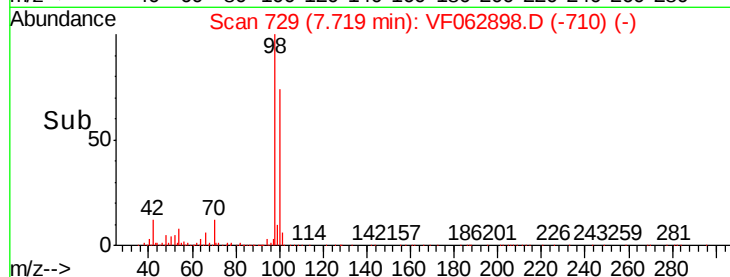
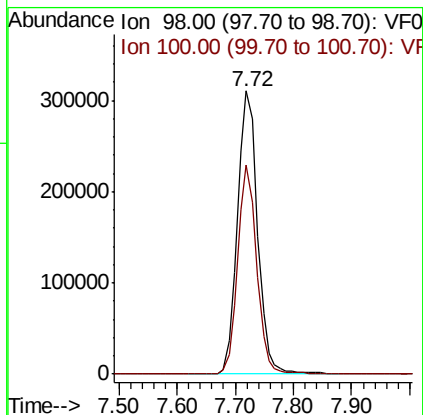
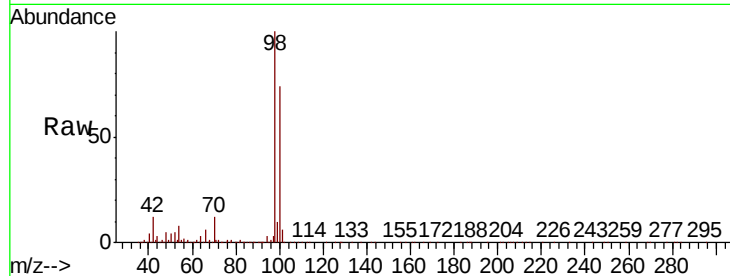
ClientSampleId :

Tot Ion: 98 Resp: 747198

Ion Ratio Lower Upper

98 100

100 73.9 59.8 89.8



#51

4-Methyl-2-Pentanone

Concen: 4.057 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF062898.D

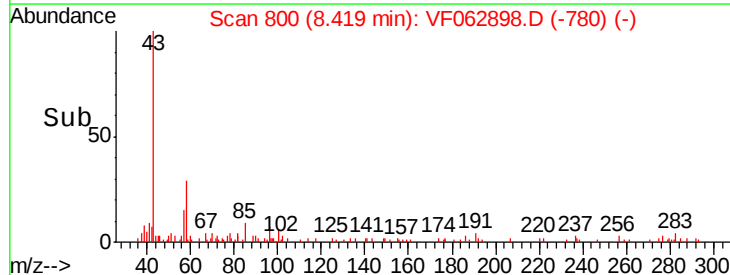
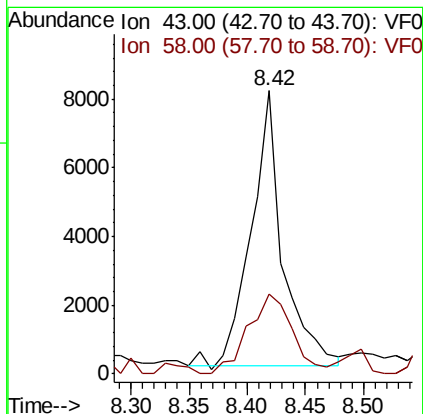
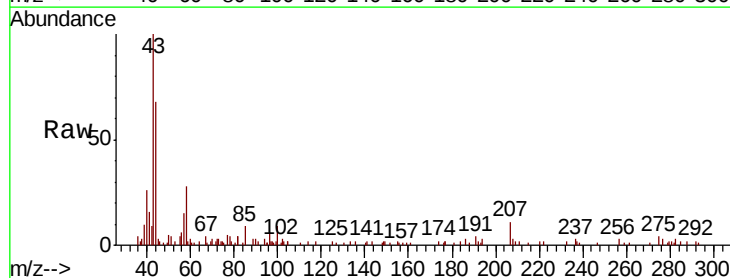
Acq: 7 Jun 2019 14:23

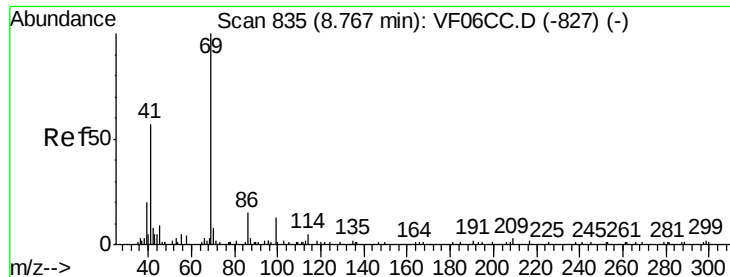
Tgt Ion: 43 Resp: 15186

Ion Ratio Lower Upper

43 100

58 28.3 35.5 53.3#





#56

Ethyl methacrylate

Concen: 1.019 ug/l

RT: 8.76 min Scan# 835

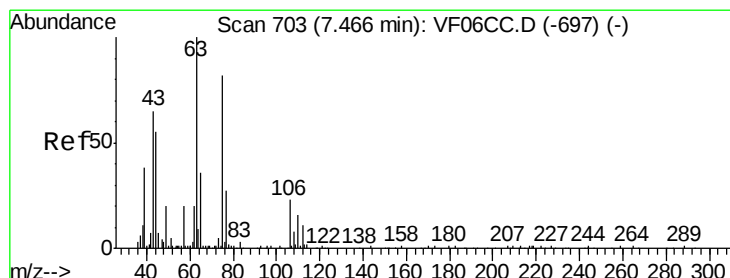
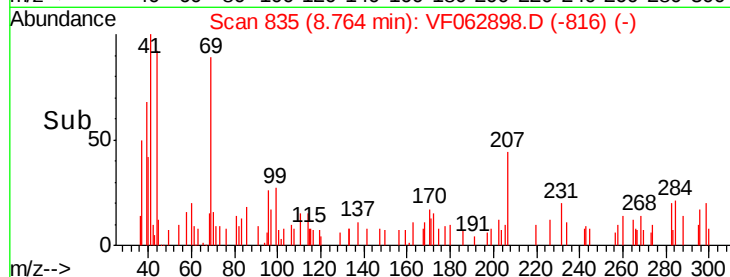
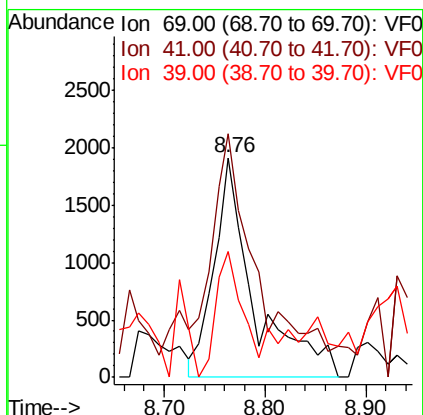
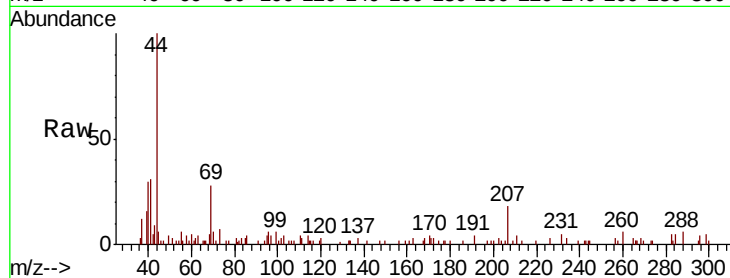
Delta R.T. -0.02 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	69	Resp:	5314
Ion	Ratio	Lower	Upper
69	100		
41	110.8	46.6	69.8#
39	57.3	19.6	29.4#



#58

2-Chloroethyl Vinyl ether

Concen: 2.146 ug/l

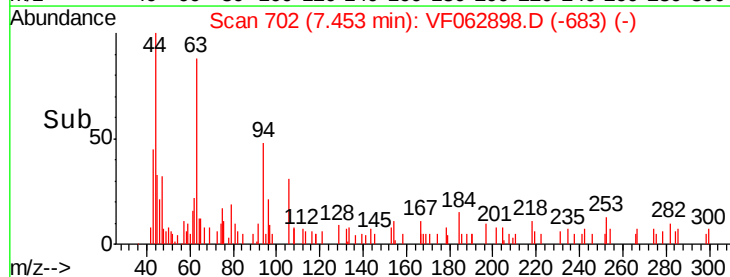
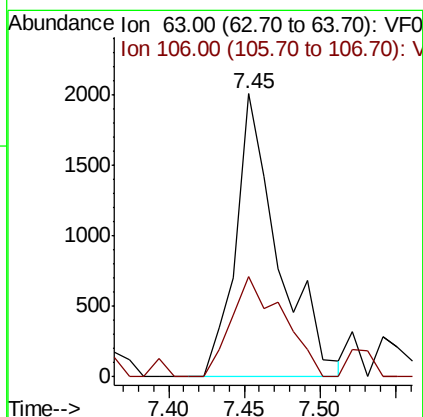
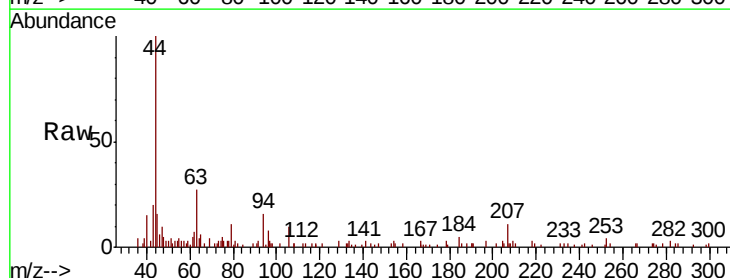
RT: 7.45 min Scan# 702

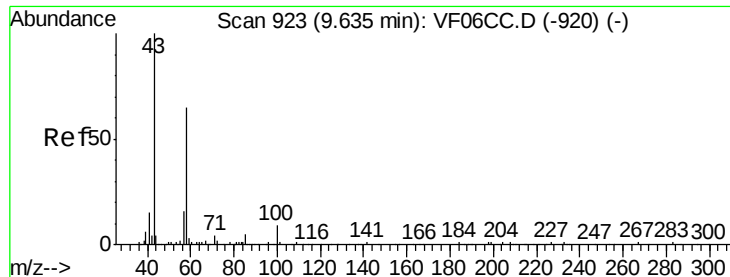
Delta R.T. -0.02 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

Tgt Ion:	63	Resp:	3913
Ion	Ratio	Lower	Upper
63	100		
106	35.6	19.5	29.3#

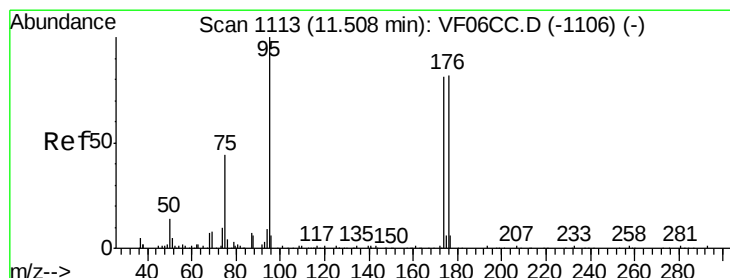
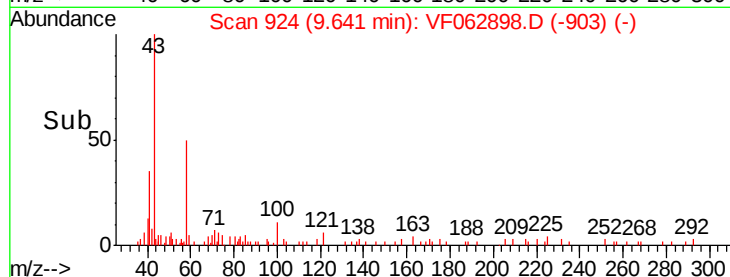
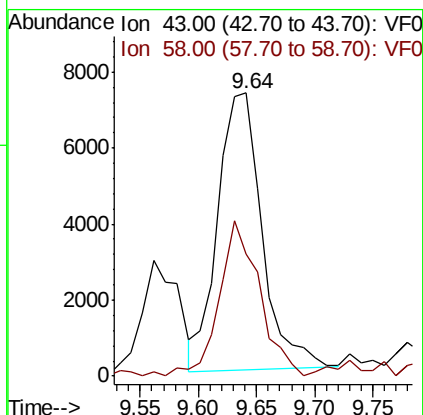
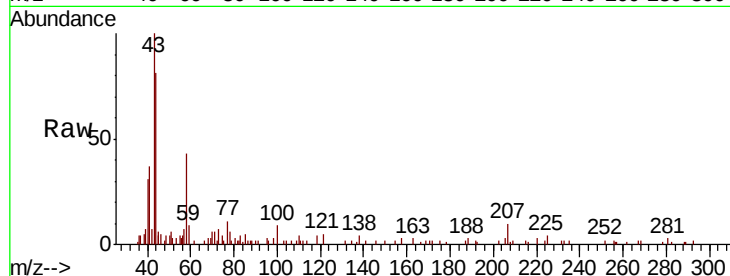




#59
2-Hexanone
Concen: 7.223 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.00 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

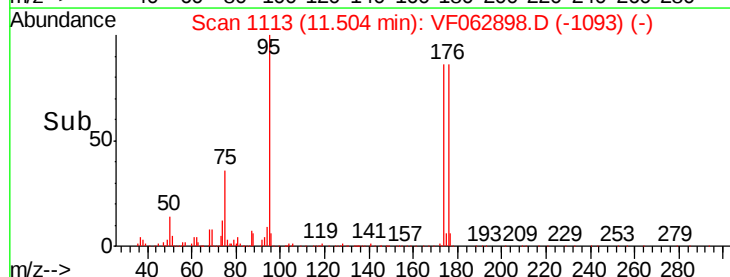
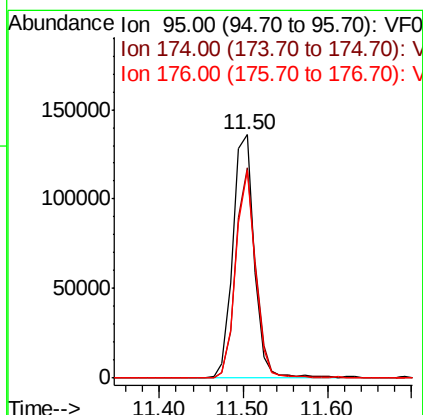
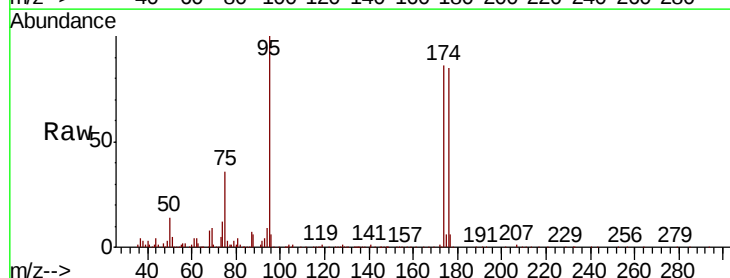
Instrument :
MSVOA_F
ClientSampleId :

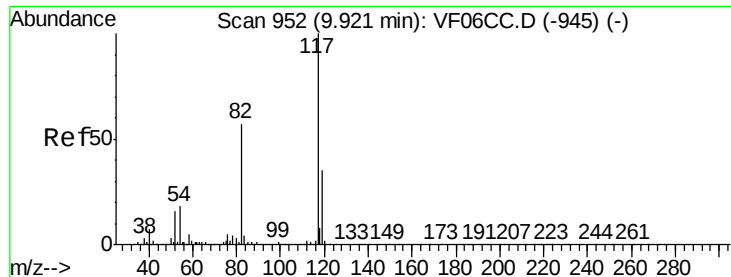
Tot Ion: 43 Resp: 19269
Ion Ratio Lower Upper
43 100
58 43.4 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 31.284 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

Tgt Ion: 95 Resp: 242493
Ion Ratio Lower Upper
95 100
174 86.3 0.0 170.6
176 85.5 0.0 170.6

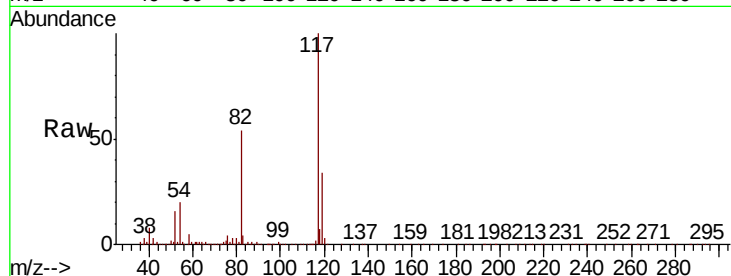




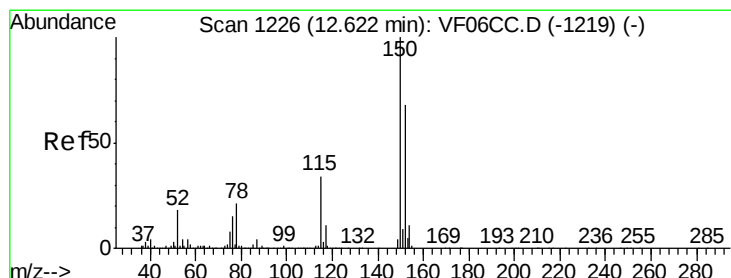
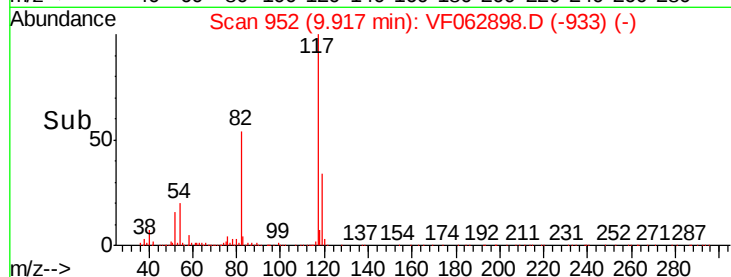
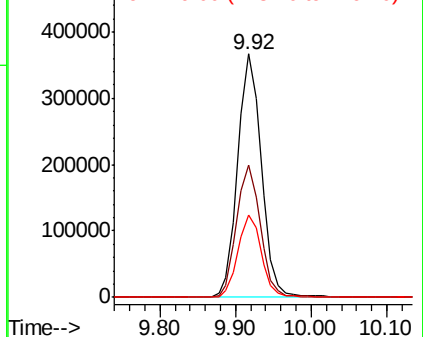
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.02 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.1	42.4	63.6
119	34.0	27.1	40.7

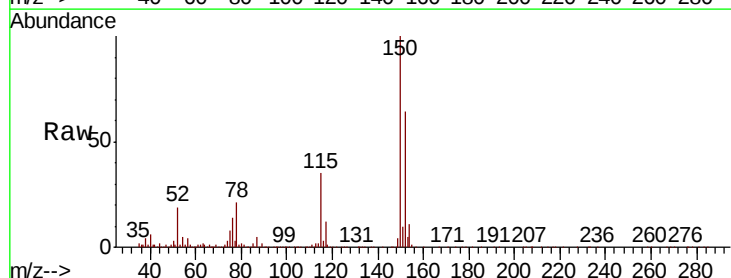


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

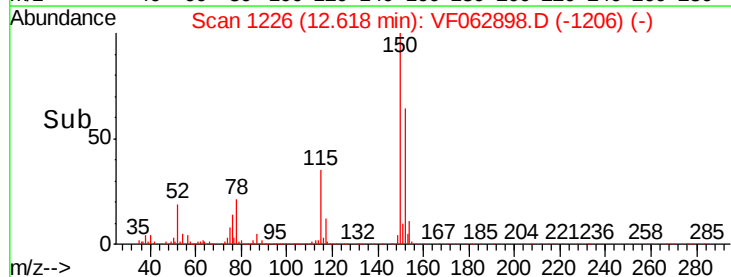
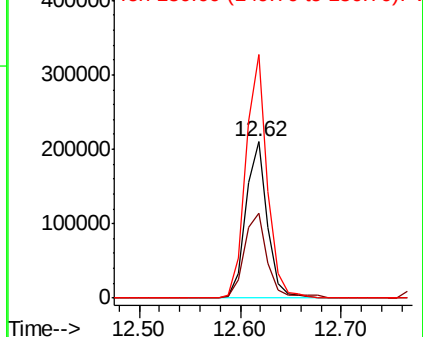


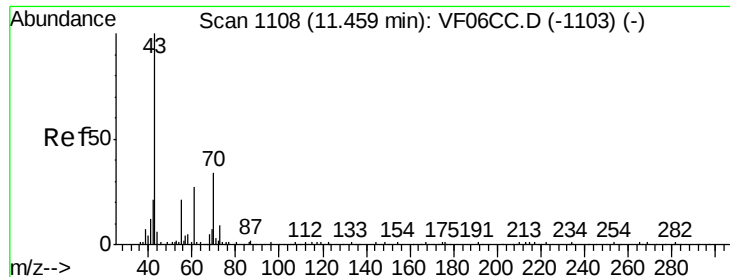
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.9	24.6	74.0
150	155.6	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: 2.629 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF062898.D

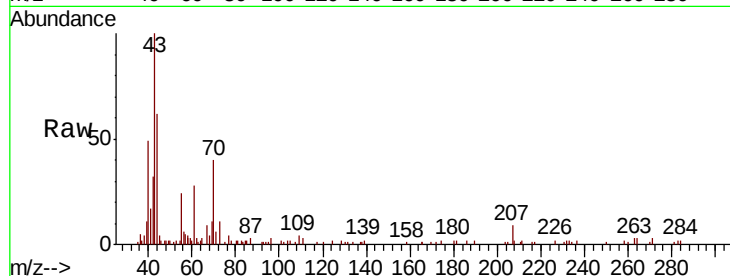
Acq: 7 Jun 2019 14:23

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	43	Resp:	16237
Ion	Ratio	Lower	Upper
43	100		
70	40.3	32.9	49.3
55	23.5	17.3	25.9
61	28.3	23.7	35.5

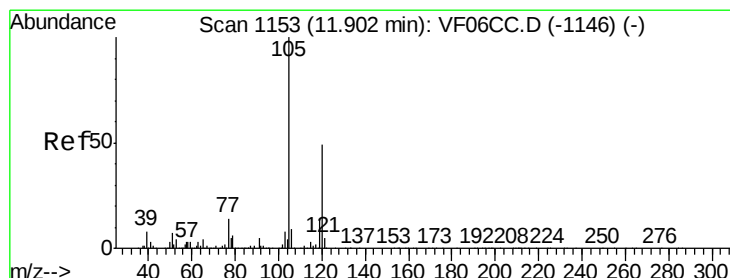
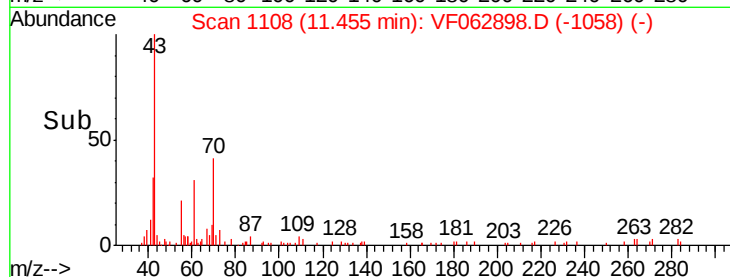
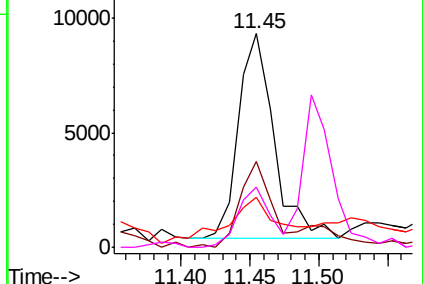


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#80

1,3,5-Trimethylbenzene

Concen: 2.289 ug/l

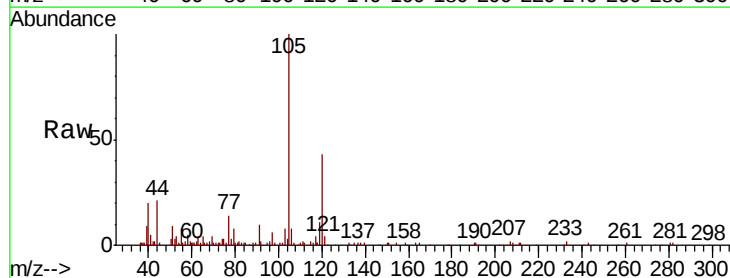
RT: 11.90 min Scan# 1153

Delta R.T. -0.01 min

Lab File: VF062898.D

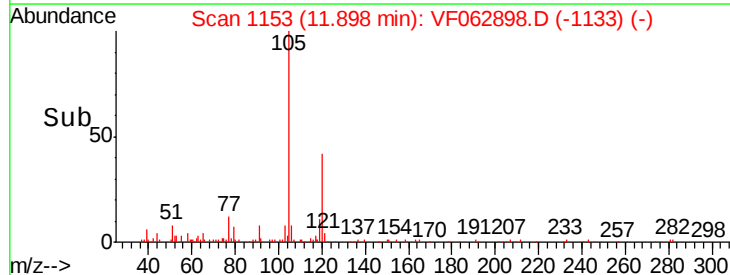
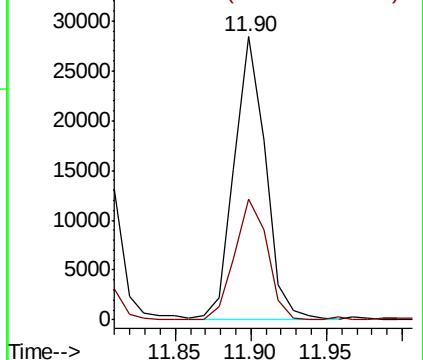
Acq: 7 Jun 2019 14:23

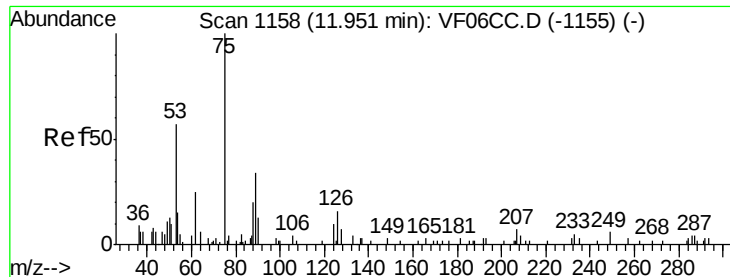
Tgt Ion:	105	Resp:	41024
Ion	Ratio	Lower	Upper
105	100		
120	42.6	28.7	86.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.116 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

Instrument :

MSVOA_F

ClientSampleId :

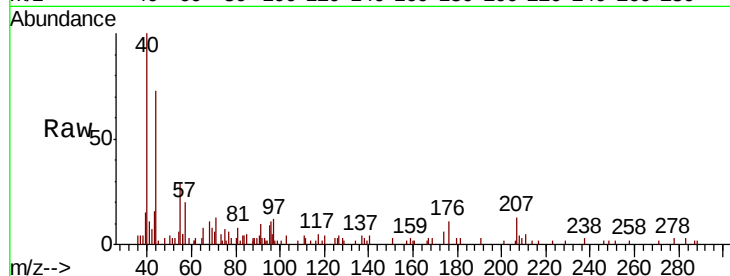
Tot Ion: 75 Resp: 1466

Ion Ratio Lower Upper

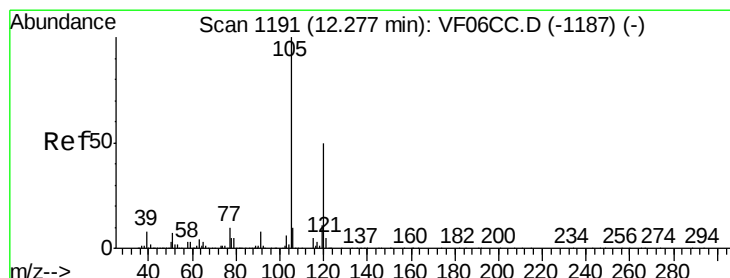
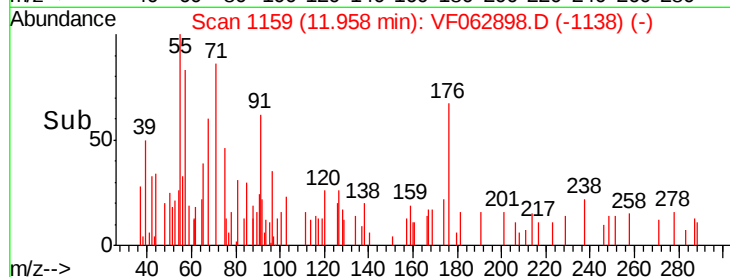
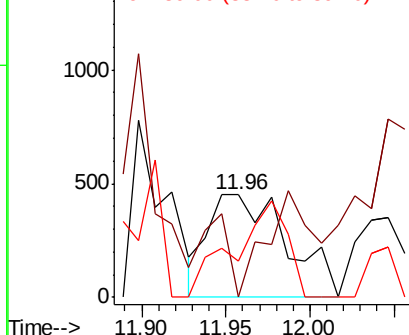
75 100

53 0.0 43.5 65.3#

89 35.5 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



#84

1,2,4-Trimethylbenzene

Concen: 2.119 ug/l

RT: 12.27 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF062898.D

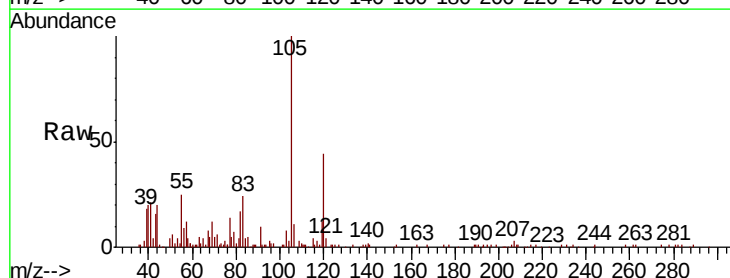
Acq: 7 Jun 2019 14:23

Tgt Ion:105 Resp: 36005

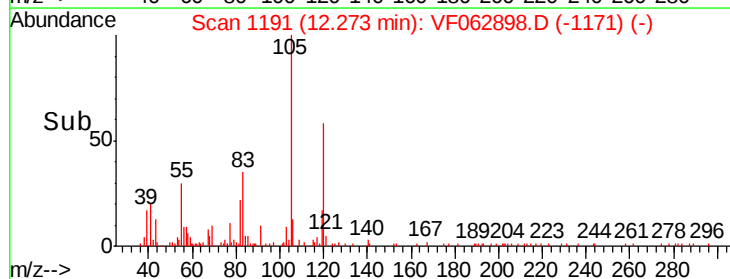
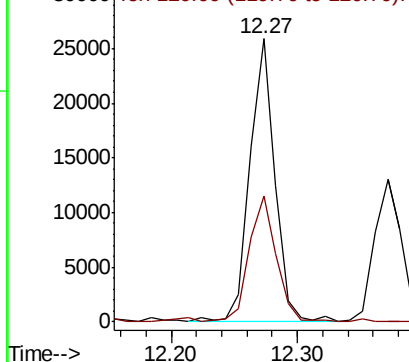
Ion Ratio Lower Upper

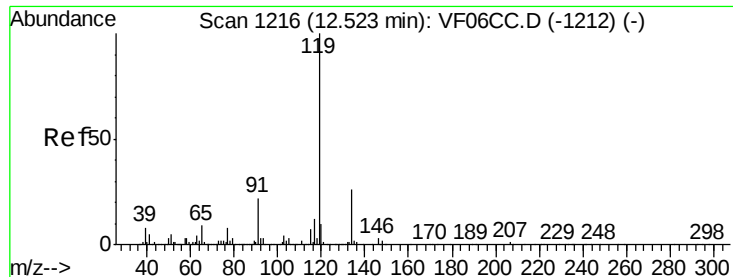
105 100

120 44.4 27.1 81.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

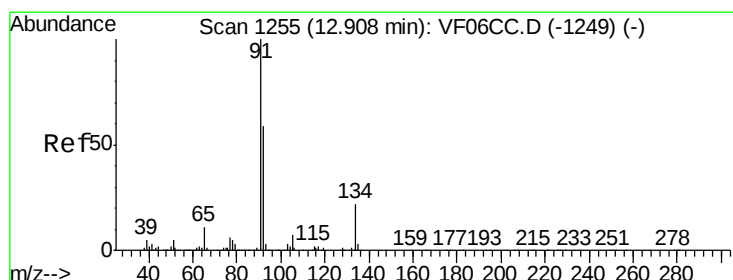
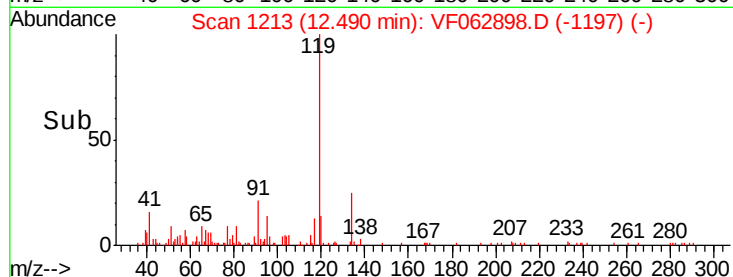
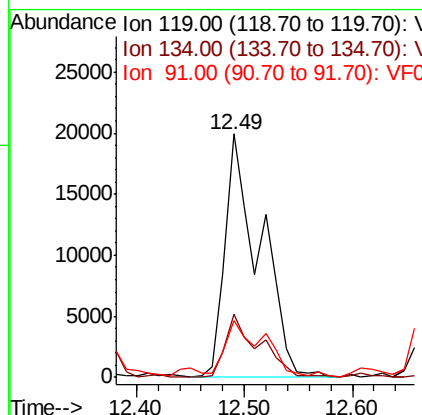
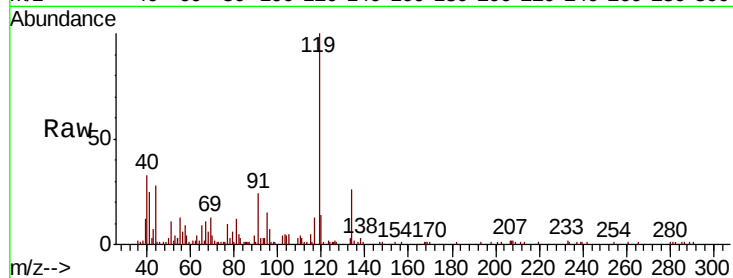




#86
p-Isopropyltoluene
Concen: 2.316 ug/l
RT: 12.49 min Scan# 1213
Delta R.T. -0.05 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

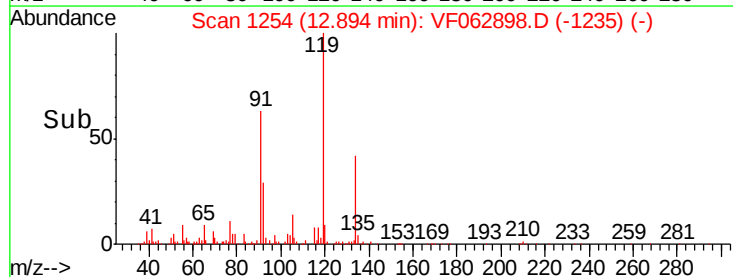
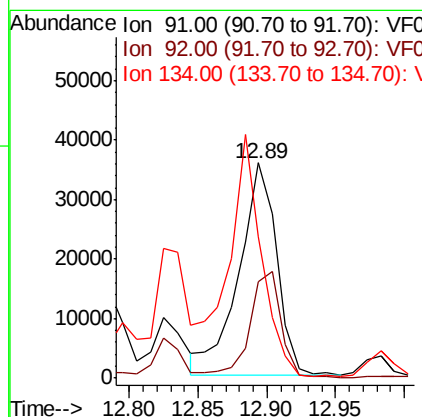
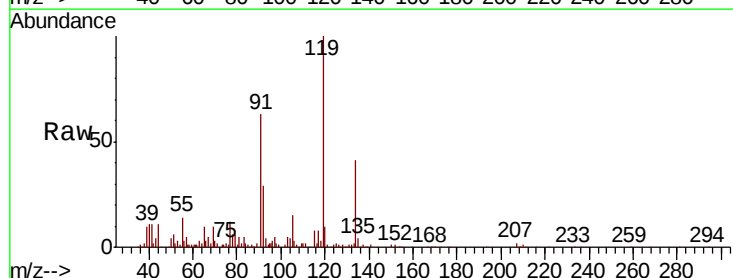
Instrument :
MSVOA_F
ClientSampled :

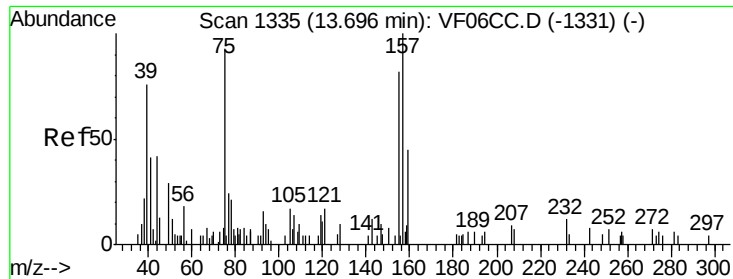
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	15.5	46.5
91	23.6	10.3	30.9



#89
n-Butylbenzene
Concen: 3.468 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.02 min
Lab File: VF062898.D
Acq: 7 Jun 2019 14:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	45.2	34.2	102.6
134	65.5	15.8	47.3





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.697 ug/l

RT: 13.66 min Scan# 1332

Delta R.T. -0.04 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

Instrument :

MSVOA_F

ClientSampleId :

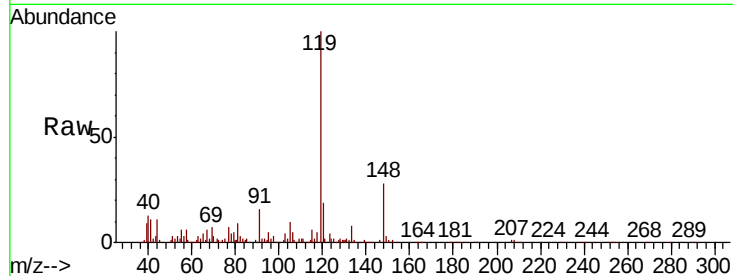
Tot Ion: 75 Resp: 1375

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.1#

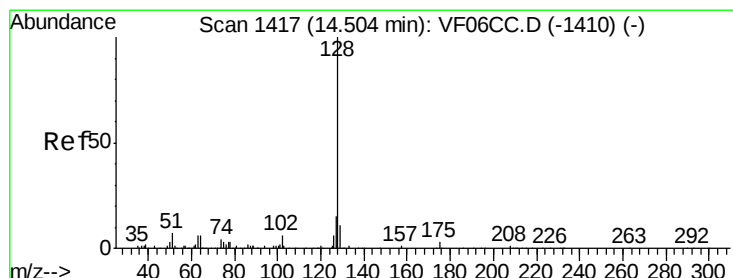
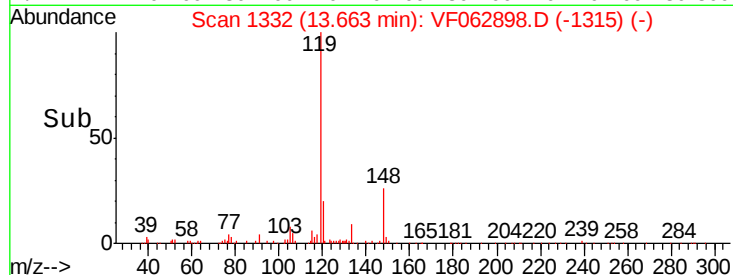
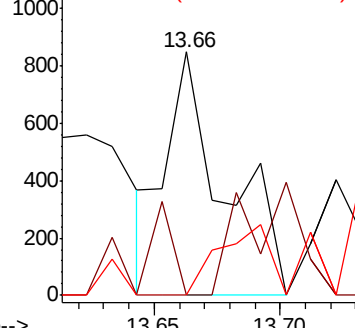
157 0.0 66.8 200.6#



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



#95

Naphthalene

Concen: 12.772 ug/l

RT: 14.49 min Scan# 1416

Delta R.T. -0.02 min

Lab File: VF062898.D

Acq: 7 Jun 2019 14:23

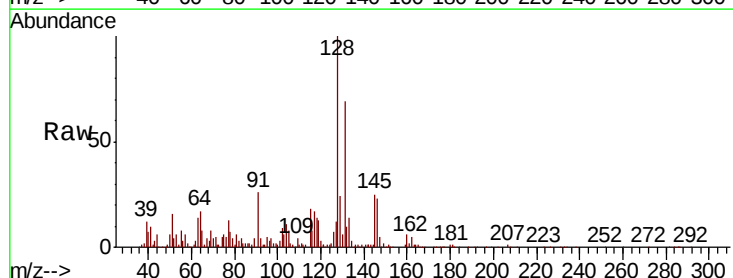
Tgt Ion: 128 Resp: 122622

Ion Ratio Lower Upper

128 100

127 12.2 9.7 14.5

129 23.8 9.4 14.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

