

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062484.D
 Acq On : 12 May 2019 3:51
 Operator : FY/SY
 Sample : K2756-01
 Misc : 4.36g/5mL/MSVOA F/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Quant Time: May 12 05:22:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	82591	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	81988	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	50395	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	22343	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.05	65	23324	29.88	ug/l	0.03
Spiked Amount	50.000		Recovery	=	59.76%	
35) Dibromofluoromethane	4.33	113	29962	45.87	ug/l	0.03
Spiked Amount	50.000		Recovery	=	91.74%	
50) Toluene-d8	7.73	98	49890	31.55	ug/l	0.03
Spiked Amount	50.000		Recovery	=	63.10%	
62) 4-Bromofluorobenzene	11.51	95	17585	24.65	ug/l	0.02
Spiked Amount	50.000		Recovery	=	49.30%	

Target Compounds

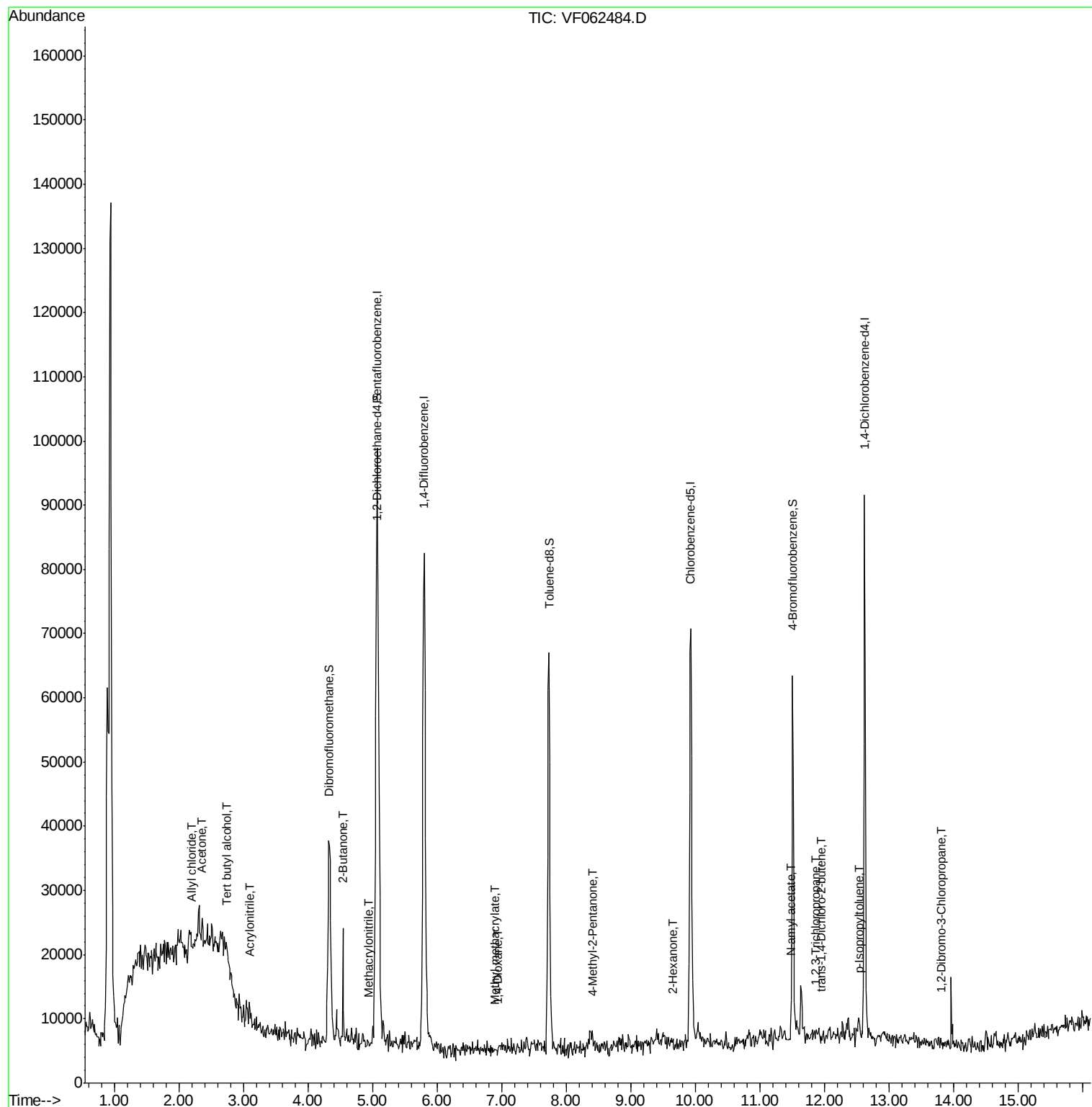
					Qvalue	
5) Bromomethane	1.41	94	206	Below Cal	#	3
11) Tert butyl alcohol	2.75	59	390	8.841	ug/l #	1
13) Acrolein	2.14	56	568	Below Cal	#	13
14) Allyl chloride	2.20	41	790	1.412	ug/l #	68
15) Acrylonitrile	3.10	53	213	2.549	ug/l #	1
16) Acetone	2.37	43	1755	11.115	ug/l #	92
18) Methyl Acetate	2.47	43	244	Below Cal	#	1
25) 2-Butanone	4.54	43	549	2.768	ug/l #	57
37) Ethyl Acetate	4.32	43	315	Below Cal	#	72
38) Carbon Tetrachloride	4.22	117	102	Below Cal	#	14
41) Methacrylonitrile	4.94	41	169	1.001	ug/l #	1
48) Methyl methacrylate	6.90	41	710	3.136	ug/l #	65
49) 1,4-Dioxane	6.93	88	59	12.435	ug/l #	22
51) 4-Methyl-2-Pentanone	8.42	43	977	4.025	ug/l #	40
59) 2-Hexanone	9.65	43	963	5.736	ug/l	67
74) N-amyl acetate	11.48	43	303	1.066	ug/l #	83
76) 1,2,3-Trichloropropane	11.88	75	186	1.176	ug/l #	100
81) trans-1,4-Dichloro-2-buten	11.95	75	67	1.126	ug/l #	94
86) p-Isopropyltoluene	12.53	119	1402	1.016	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.80	75	62	1.334	ug/l #	1

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051119\
Data File : VF062484.D
Acq On : 12 May 2019 3:51
Operator : FY/SY
Sample : K2756-01
Misc : 4.36g/5mL/MSVOA F/SOIL
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
BFB

Quant Time: May 12 05:22:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

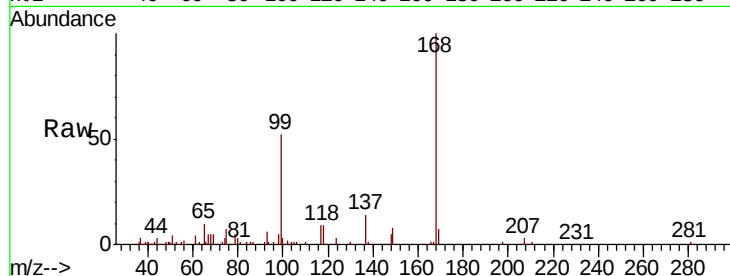
BFB

Tot Ion:168 Resp: 82591

Ion Ratio Lower Upper

168 100

99 52.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

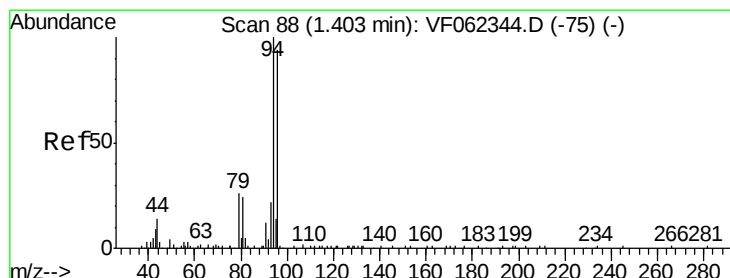
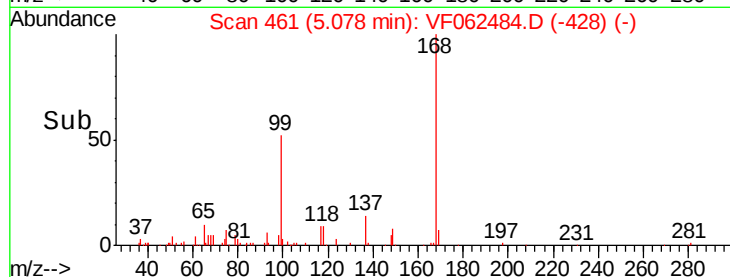
30000

20000

10000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.01 min

Lab File: VF062484.D

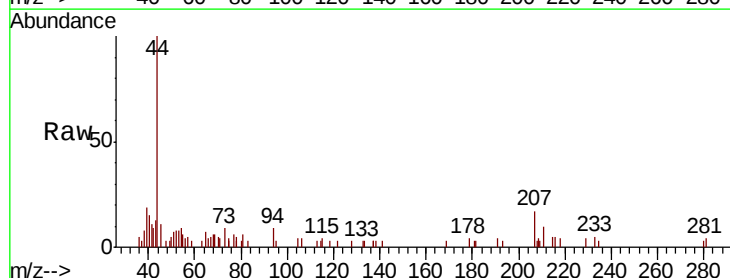
Acq: 12 May 2019 3:51

Tgt Ion: 94 Resp: 206

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.41

400

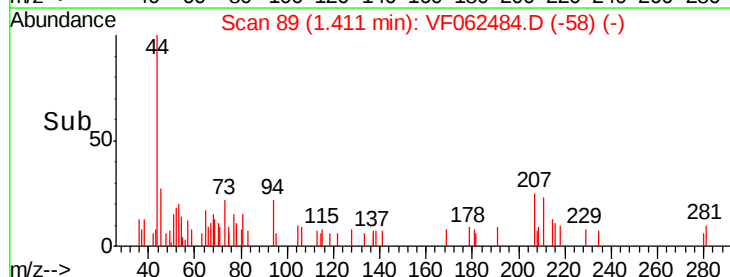
300

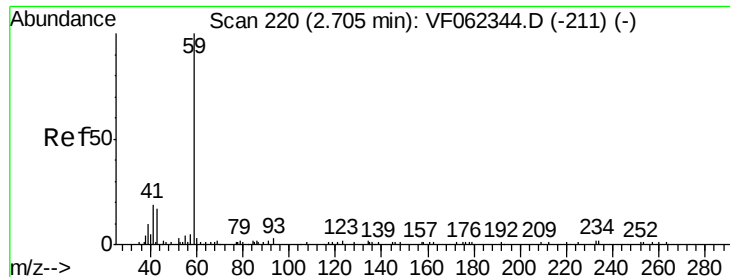
200

100

0

Time--> 1.38 1.40 1.42



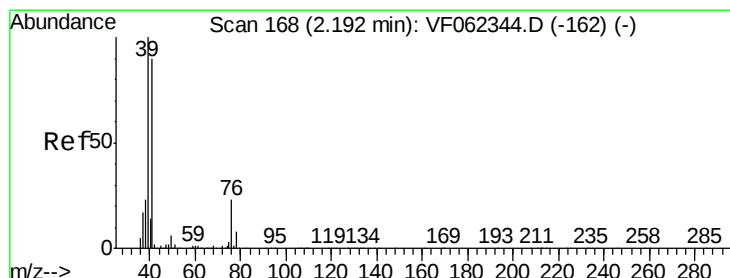
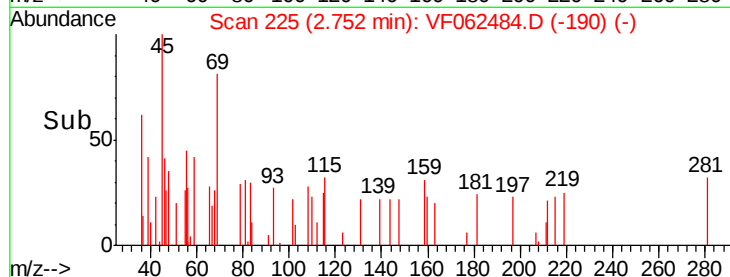
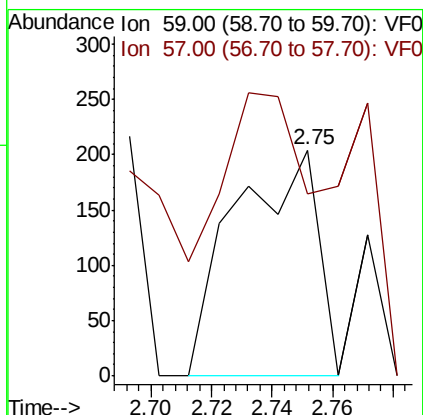
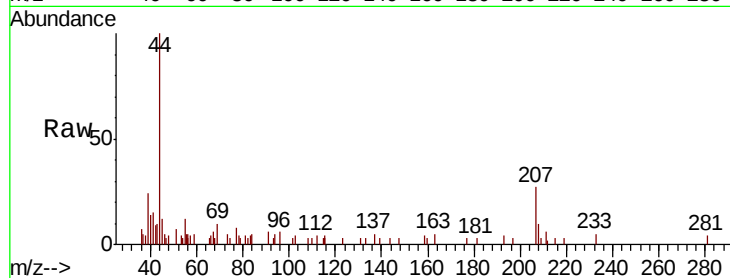


#11

Tert butyl alcohol
Concen: 8.841 ug/l
RT: 2.75 min Scan# 225
Delta R.T. 0.05 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Instrument :
MSVOA_F
ClientSampleId :
BFB

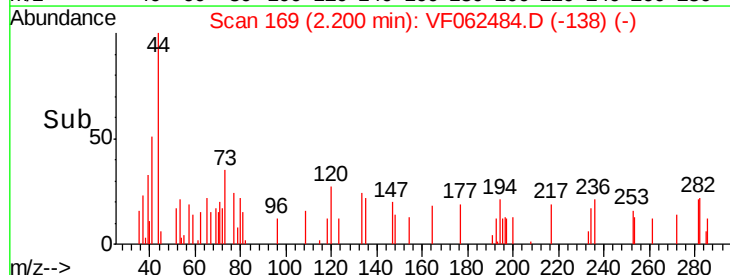
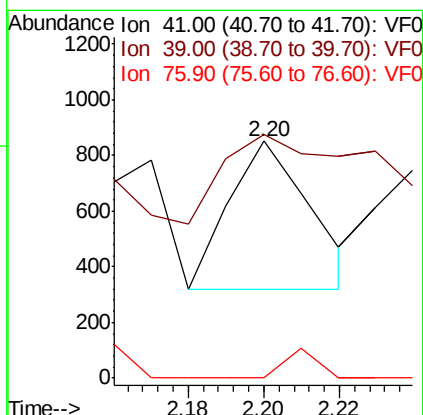
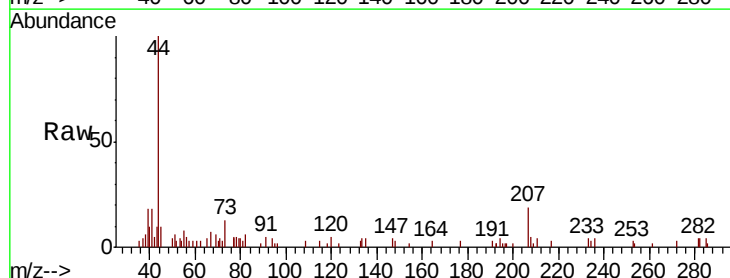
Tot Ion: 59 Resp: 390
Ion Ratio Lower Upper
59 100
57 209.2 9.3 13.9#

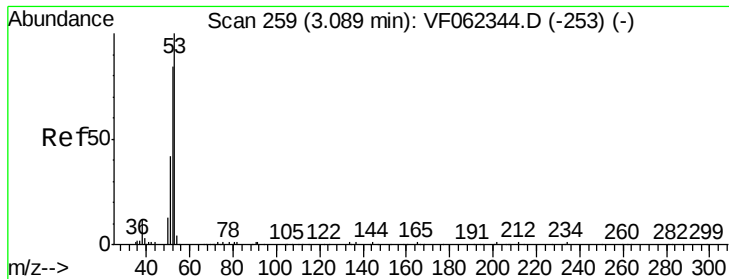


#14

Allyl chloride
Concen: 1.412 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.01 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 41 Resp: 790
Ion Ratio Lower Upper
41 100
39 146.8 90.8 136.2#
76 8.1 22.2 33.4#





#15

Acrylonitrile

Concen: 2.549 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampled :

BFB

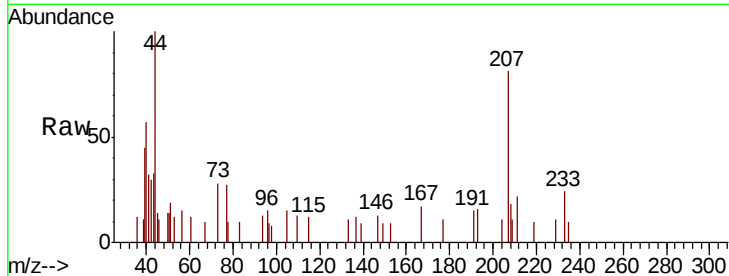
Tot Ion: 53 Resp: 213

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

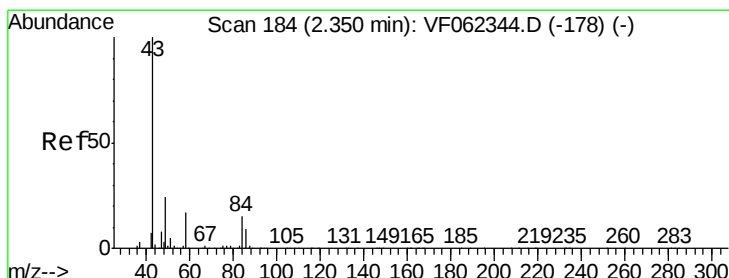
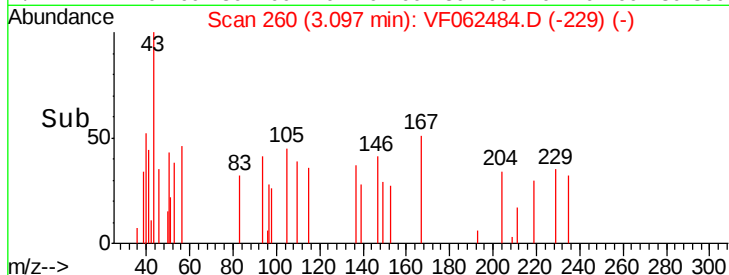
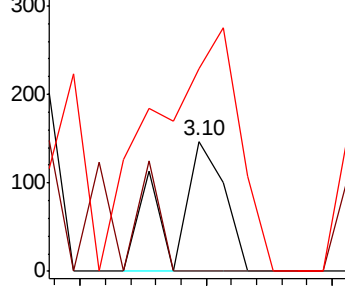
51 303.3 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 11.115 ug/l

RT: 2.37 min Scan# 186

Delta R.T. 0.02 min

Lab File: VF062484.D

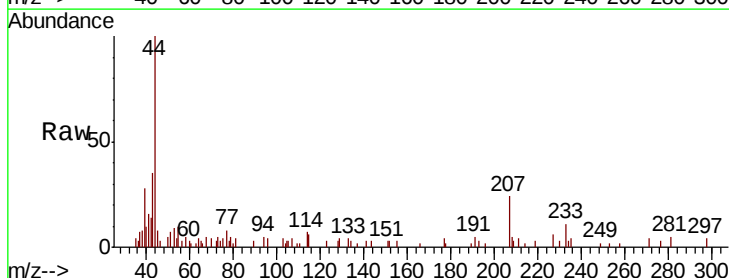
Acq: 12 May 2019 3:51

Tgt Ion: 43 Resp: 1755

Ion Ratio Lower Upper

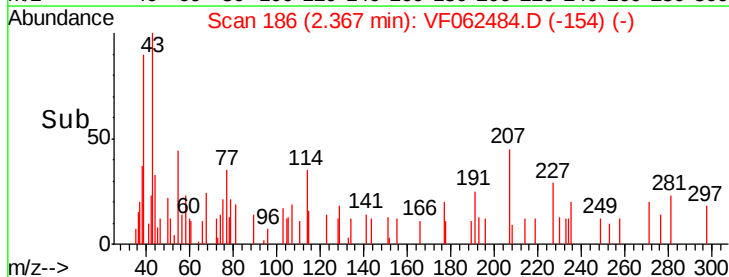
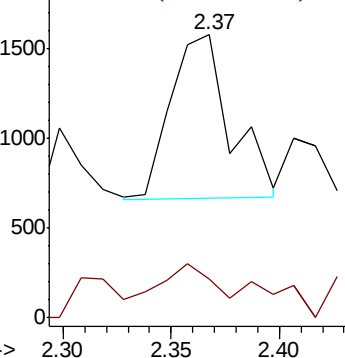
43 100

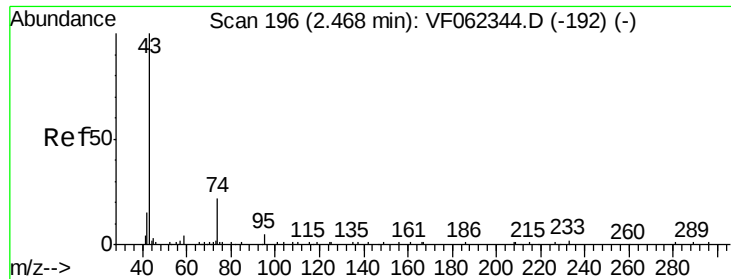
58 13.0 13.1 19.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

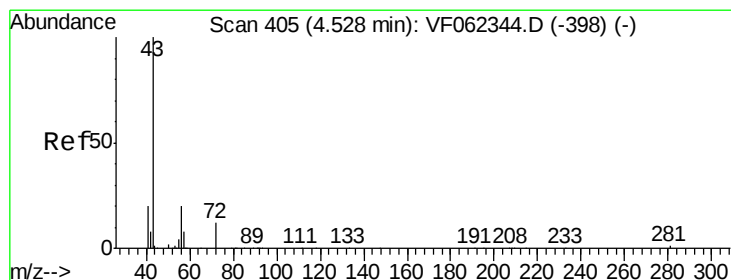
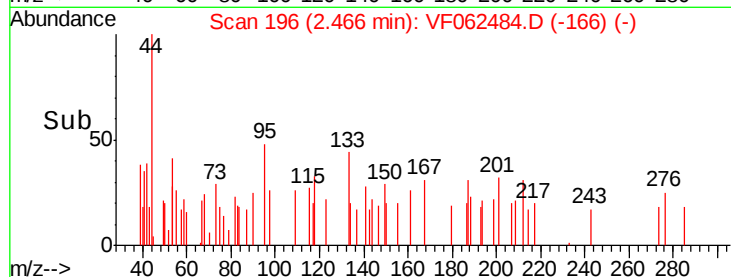
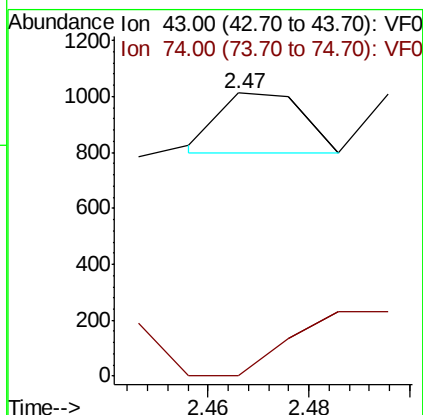
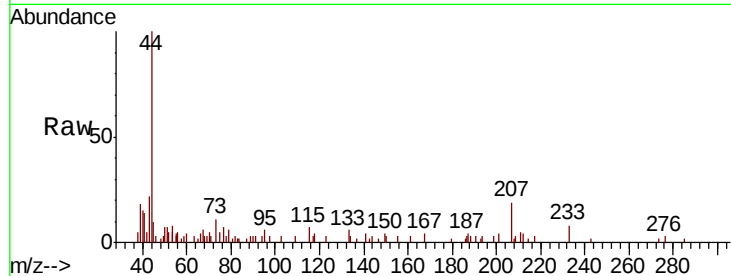




#18
Methyl Acetate
Concen: Below Cal
RT: 2.47 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

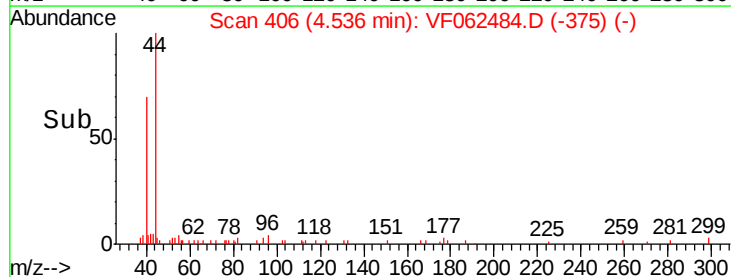
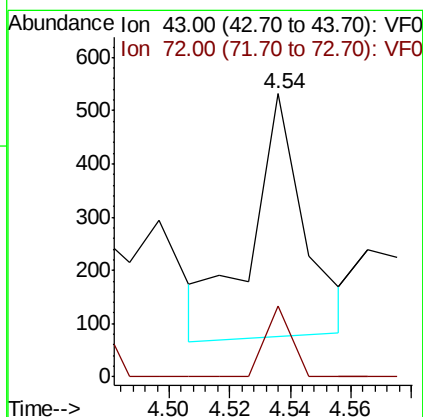
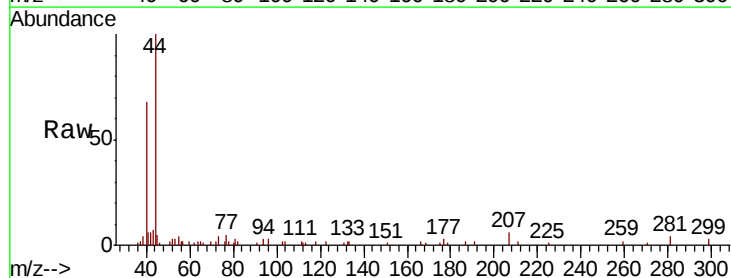
Instrument :
MSVOA_F
ClientSampleId :
BFB

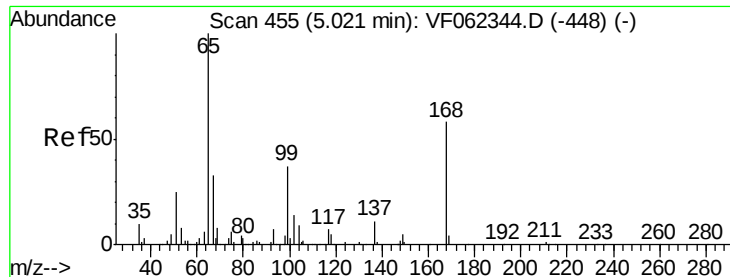
Tot Ion: 43 Resp: 244
Ion Ratio Lower Upper
43 100
74 182.8 15.0 22.4#



#25
2-Butanone
Concen: 2.768 ug/l
RT: 4.54 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 43 Resp: 549
Ion Ratio Lower Upper
43 100
72 36.7 14.2 21.4#

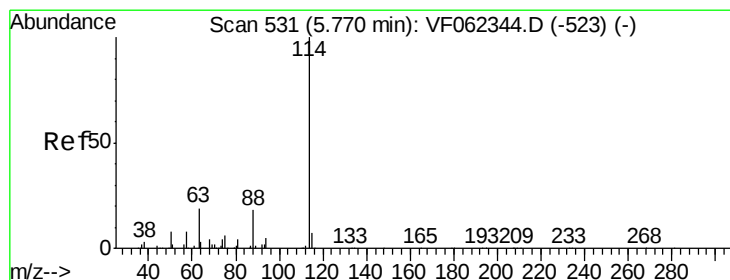
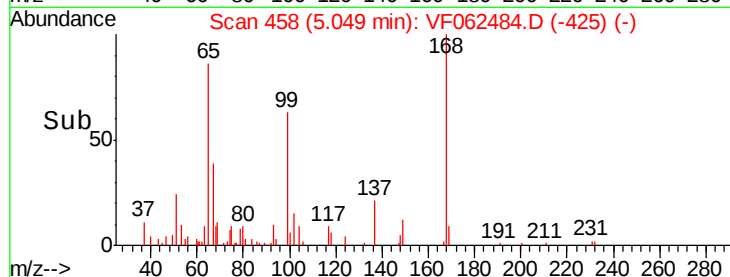
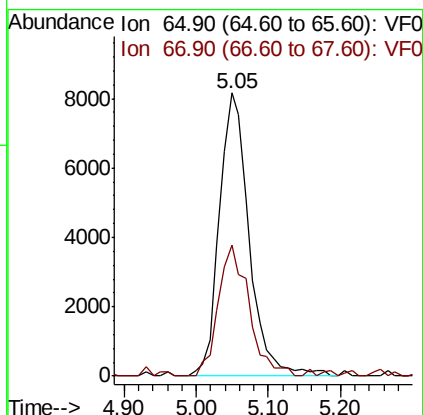
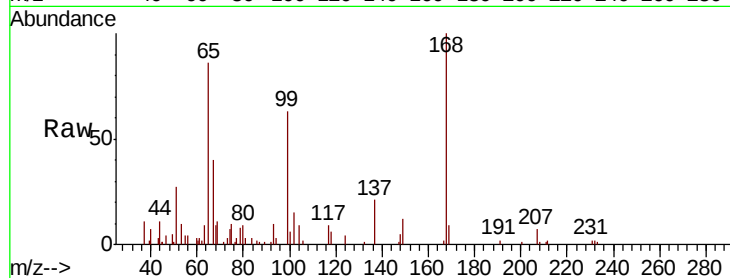




#33
 1,2-Dichloroethane-d4
 Concen: 29.883 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062484.D
 Acq: 12 May 2019 3:51

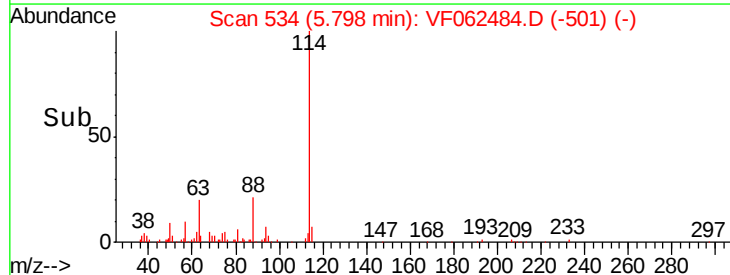
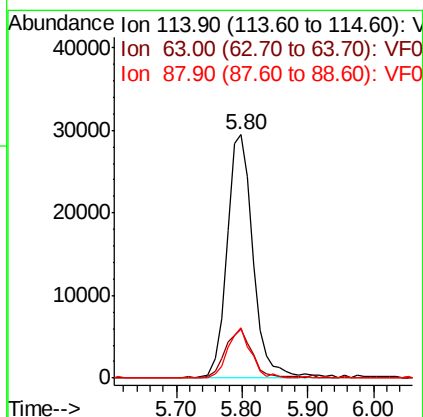
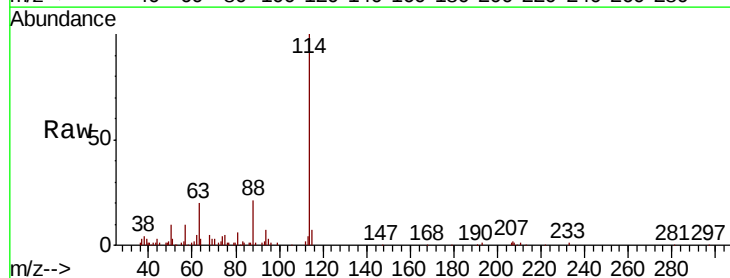
Instrument :
 MSVOA_F
 ClientSampled :
 BFB

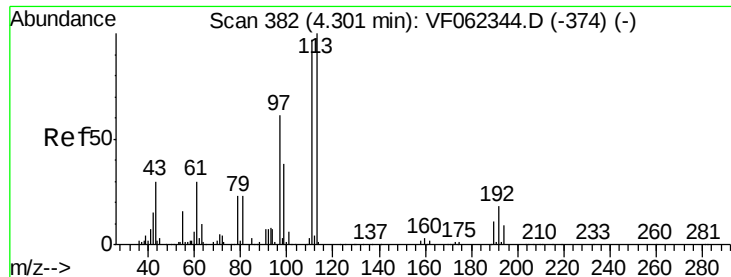
Tot Ion: 65 Resp: 23324
 Ion Ratio Lower Upper
 65 100
 67 47.8 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.03 min
 Lab File: VF062484.D
 Acq: 12 May 2019 3:51

Tgt Ion:114 Resp: 81988
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 37.4
 88 20.8 0.0 36.4

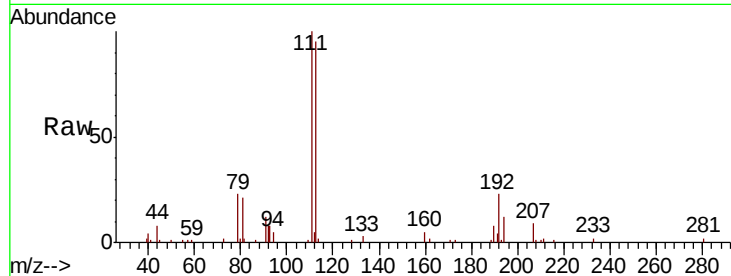




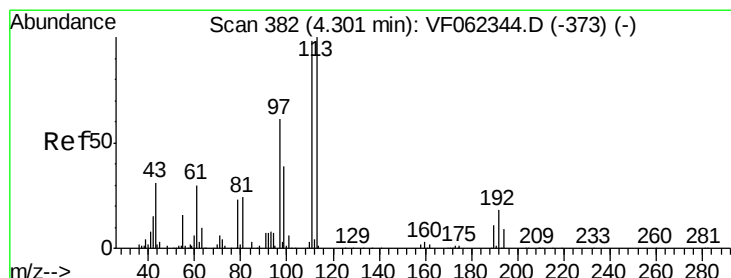
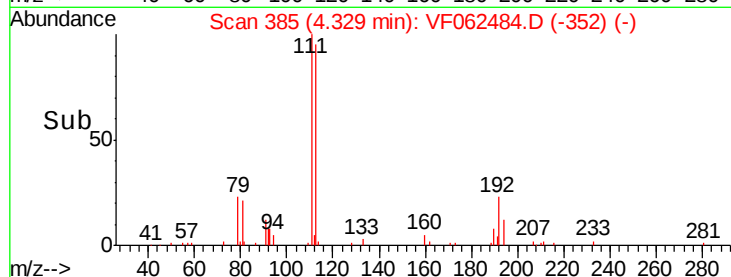
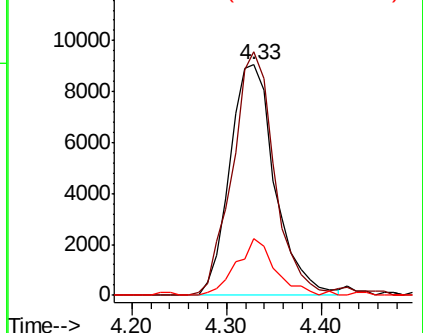
#35
 Dibromofluoromethane
 Concen: 45.871 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF062484.D
 Acq: 12 May 2019 3:51

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Tot Ion:113 Resp: 29962
 Ion Ratio Lower Upper
 113 100
 111 98.2 79.4 119.0
 192 21.2 16.0 24.0

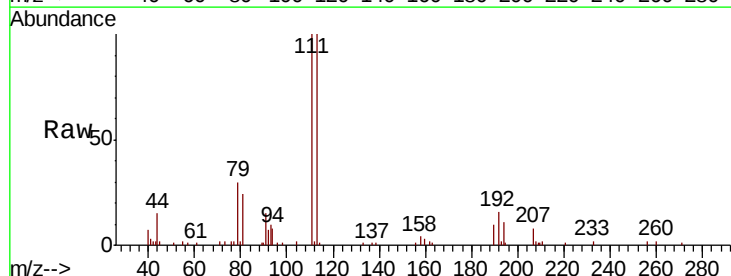


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

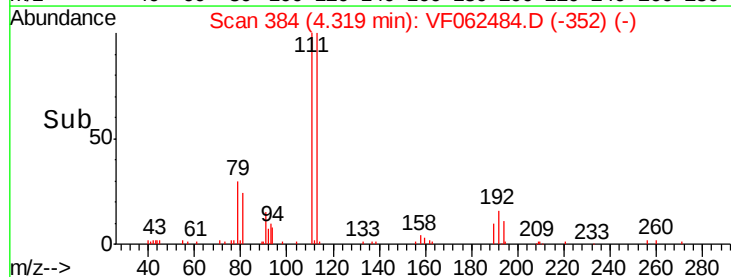
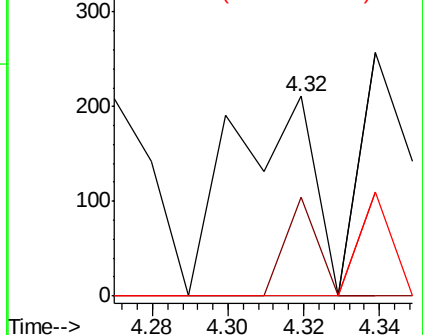


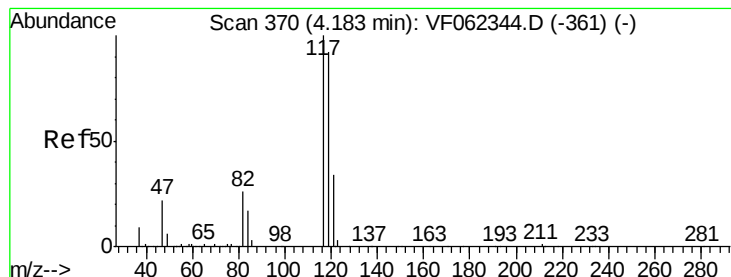
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062484.D
 Acq: 12 May 2019 3:51

Tgt Ion: 43 Resp: 315
 Ion Ratio Lower Upper
 43 100
 61 19.7 0.0 0.0#
 70 20.6 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 60.90 (60.60 to 61.60): VF0
 Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.22 min Scan# 374

Delta R.T. 0.04 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

BFB

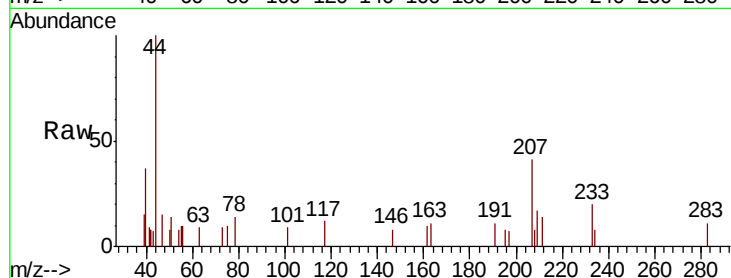
Tot Ion:117 Resp: 102

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

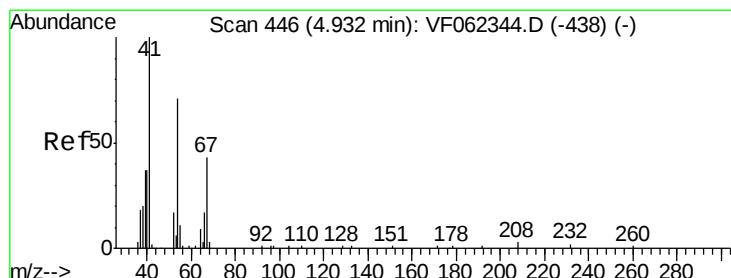
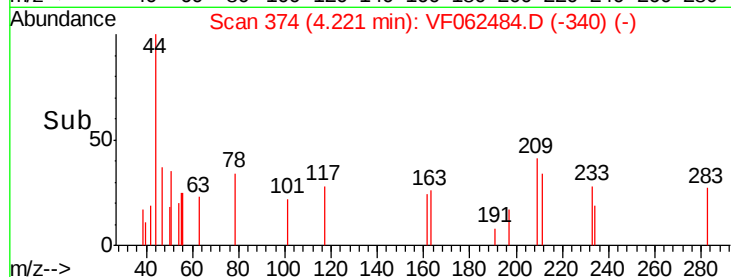
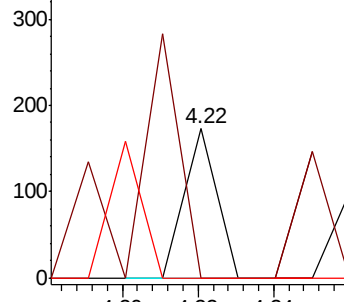
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.001 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.01 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Tgt Ion: 41 Resp: 169

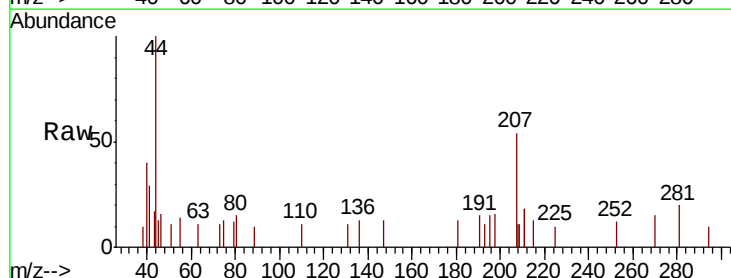
Ion Ratio Lower Upper

41 100

39 279.9 54.3 81.5#

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

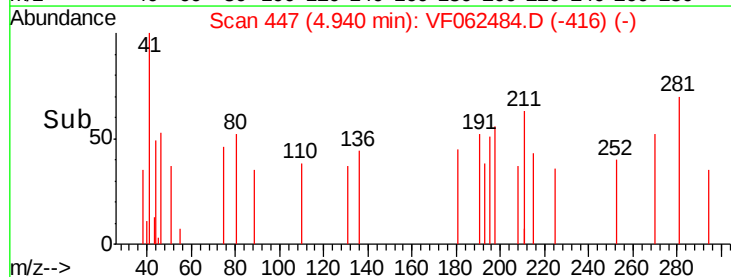
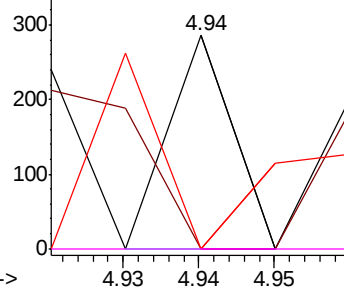


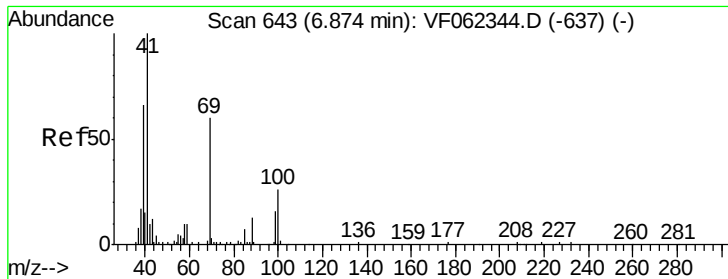
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

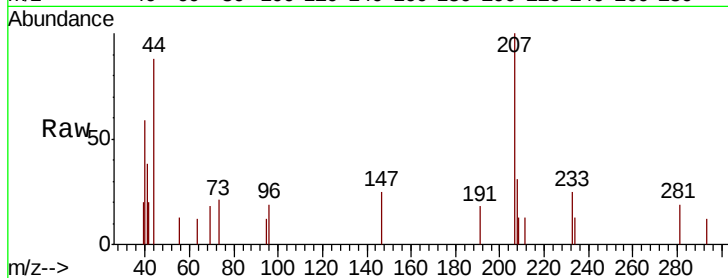




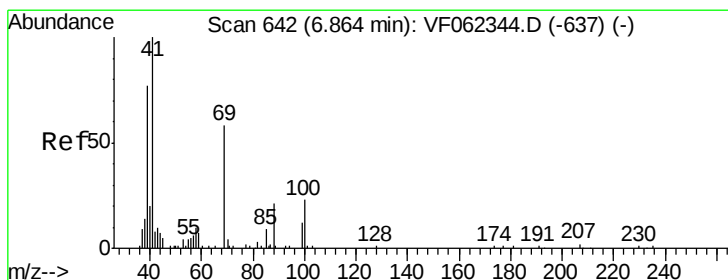
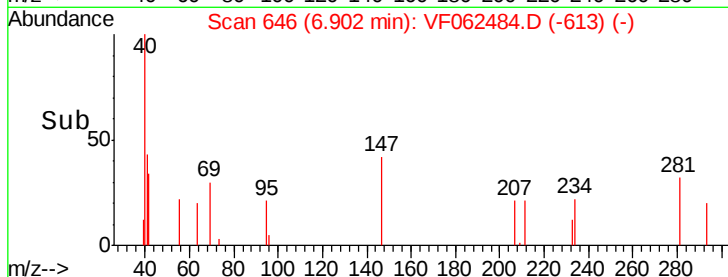
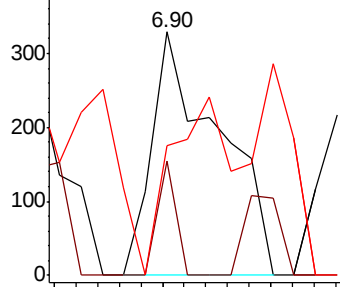
#48
Methvl methacrylate
Concen: 3.136 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.03 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Instrument :
MSVOA_F
ClientSampled :
BFB

Tot Ion: 41 Resp: 710
Ion Ratio Lower Upper
41 100
69 13.0 48.6 72.8#
39 61.7 56.1 84.1

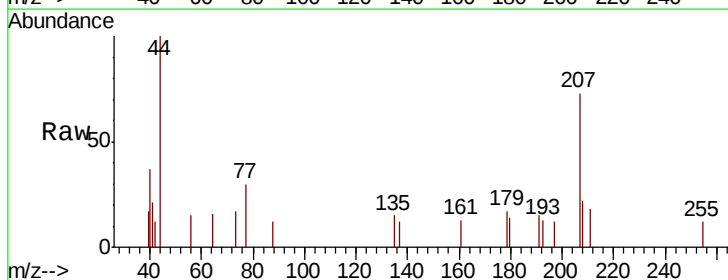


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0

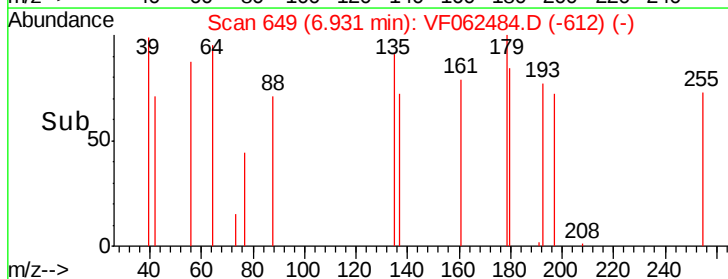
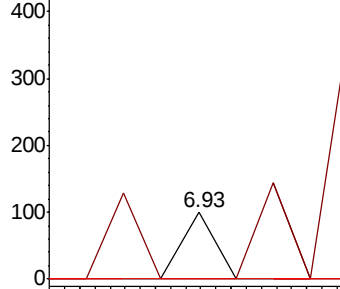


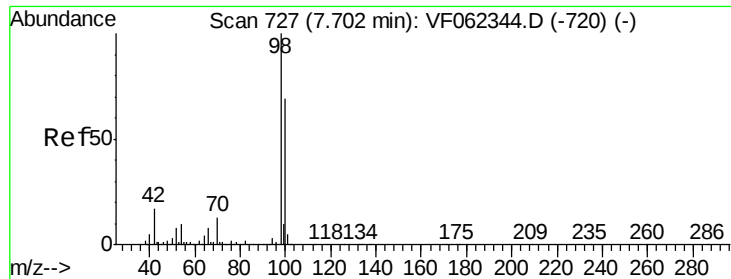
#49
1,4-Dioxane
Concen: 12.435 ug/l
RT: 6.93 min Scan# 649
Delta R.T. 0.07 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 128.8 55.6 83.4#
58 0.0 52.8 79.2#



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: 31.553 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

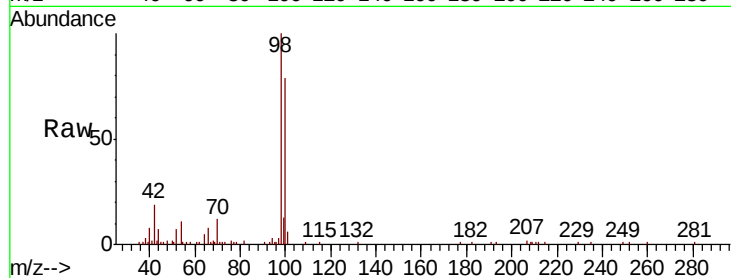
BFB

Tot Ion: 98 Resp: 49890

Ion Ratio Lower Upper

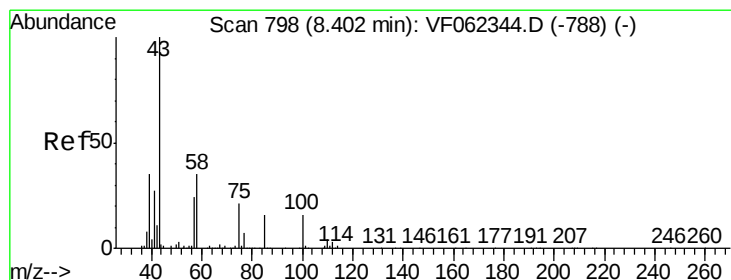
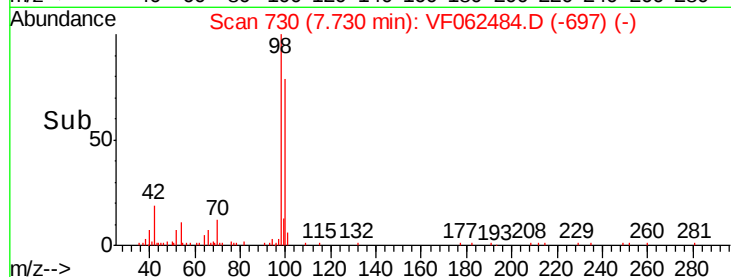
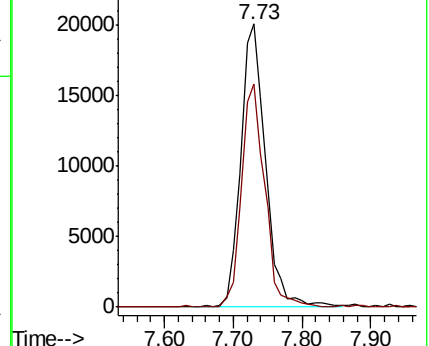
98 100

100 73.8 53.3 79.9



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: 4.025 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062484.D

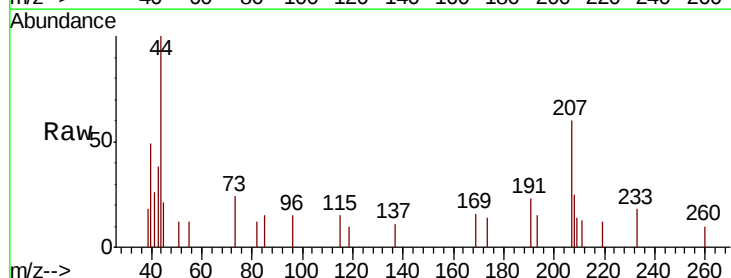
Acq: 12 May 2019 3:51

Tgt Ion: 43 Resp: 977

Ion Ratio Lower Upper

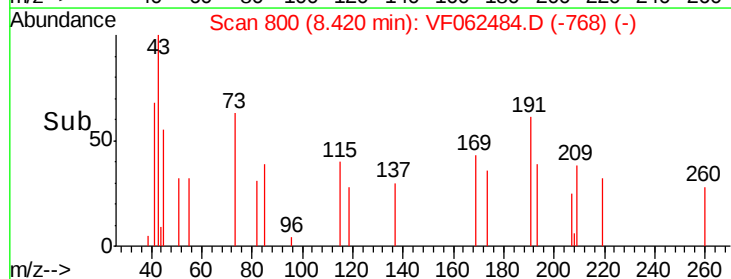
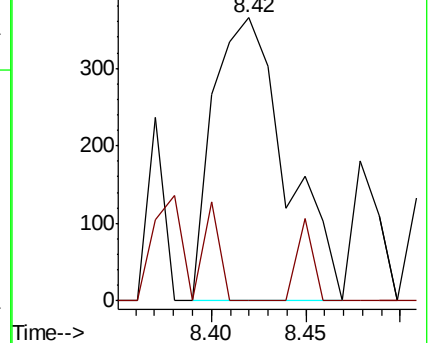
43 100

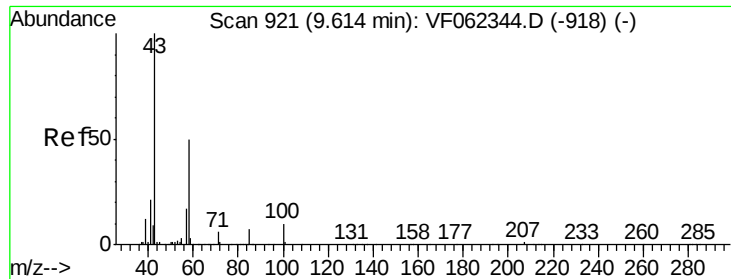
58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

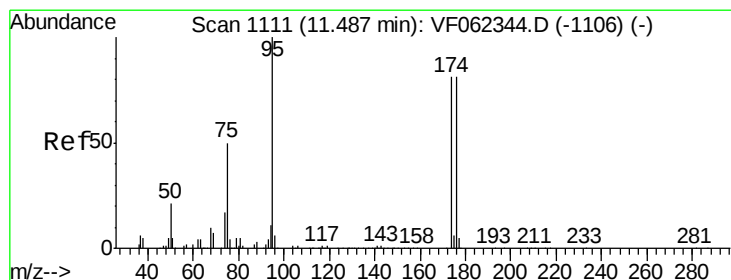
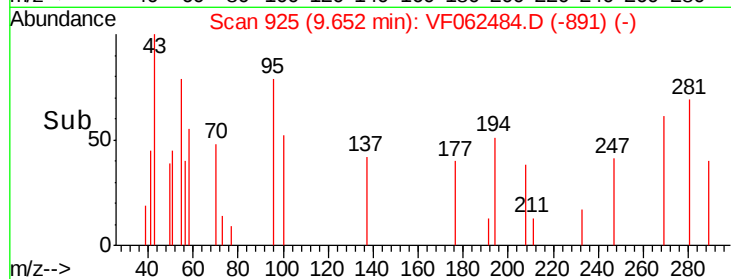
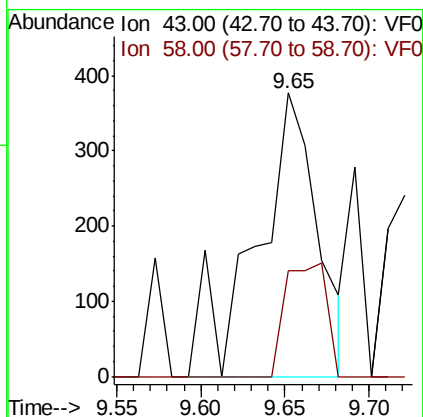
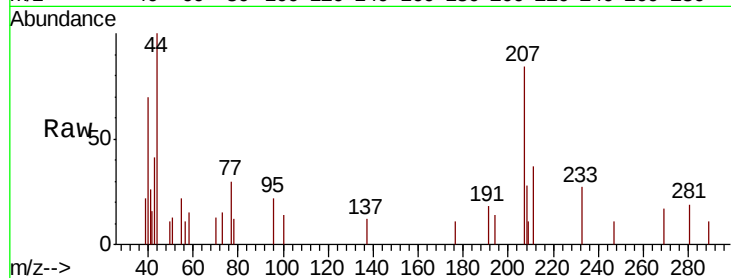




#59
2-Hexanone
Concen: 5.736 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.04 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

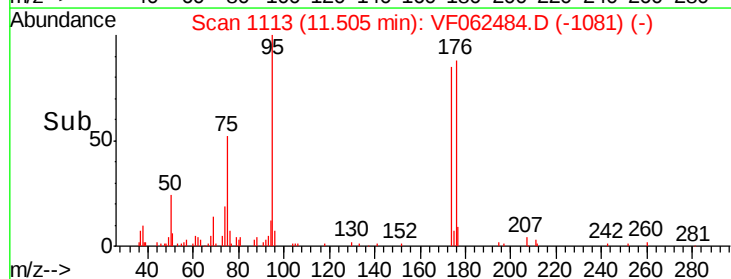
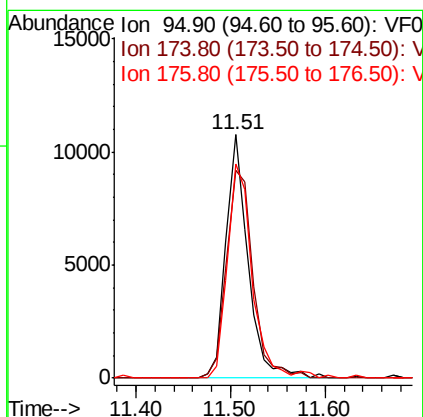
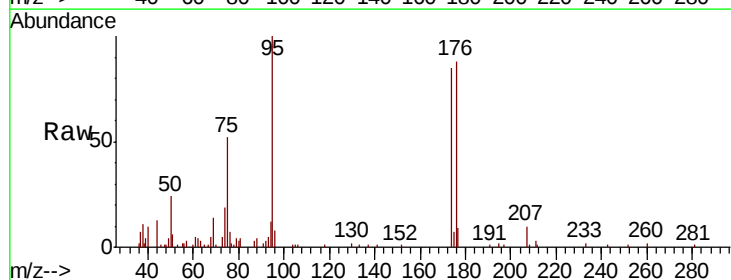
Instrument :
MSVOA_F
ClientSampled :
BFB

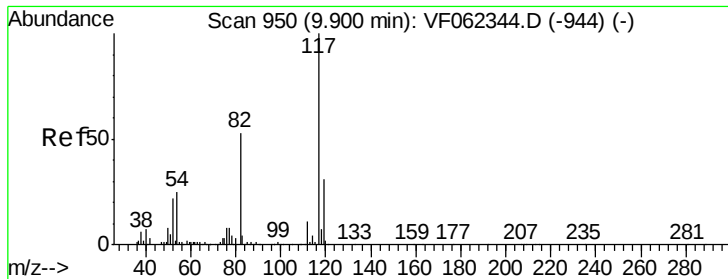
Tot Ion: 43 Resp: 963
Ion Ratio Lower Upper
43 100
58 26.6 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 24.651 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 95 Resp: 17585
Ion Ratio Lower Upper
95 100
174 102.0 0.0 191.8
176 98.3 0.0 193.2

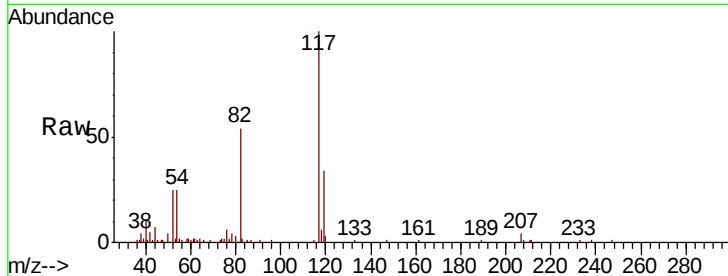




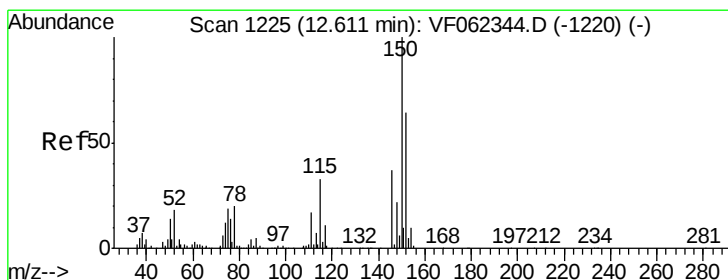
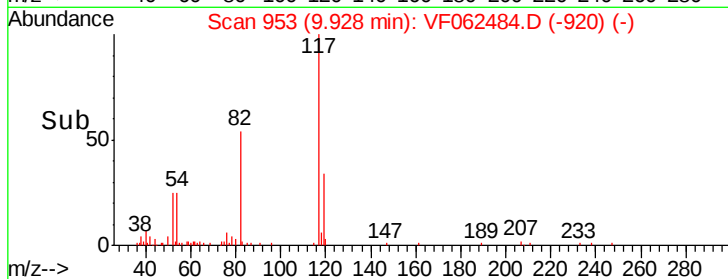
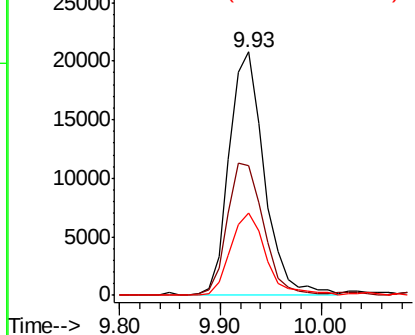
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Instrument :
MSVOA_F
ClientSampled :
BFB

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.2	63.2
119	33.6	25.0	37.4

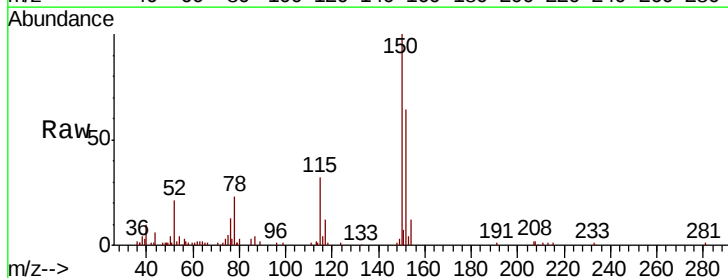


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

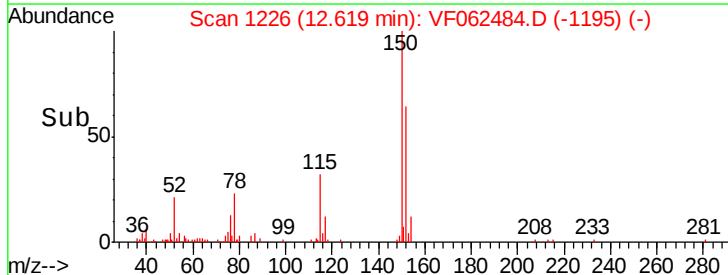
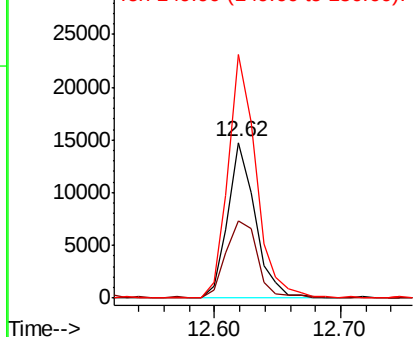


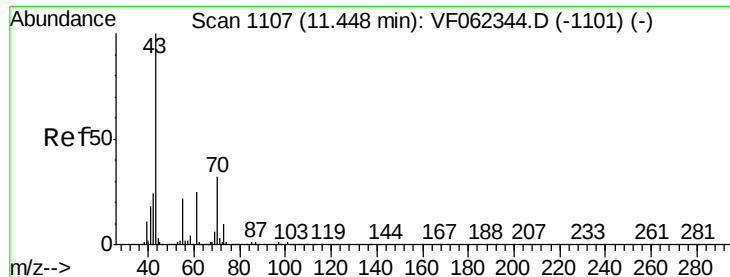
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	26.4	79.2
150	158.6	0.0	335.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.066 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

BFB

Tot Ion: 43 Resp: 303

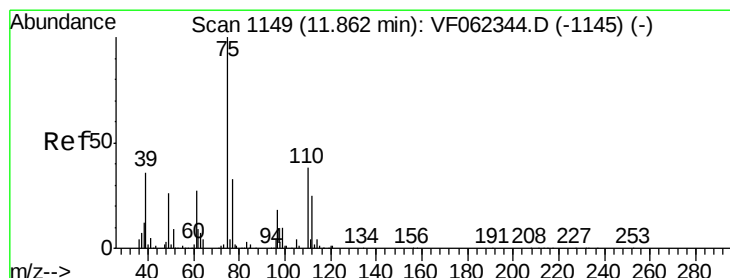
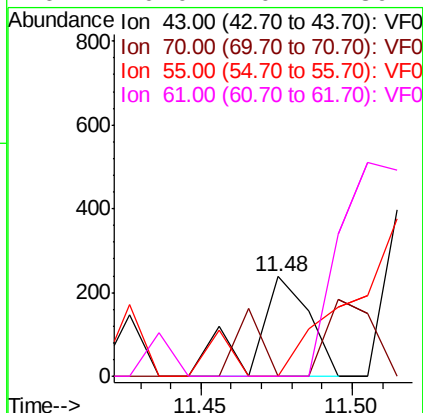
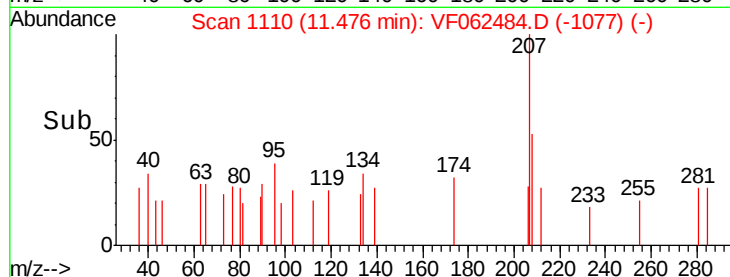
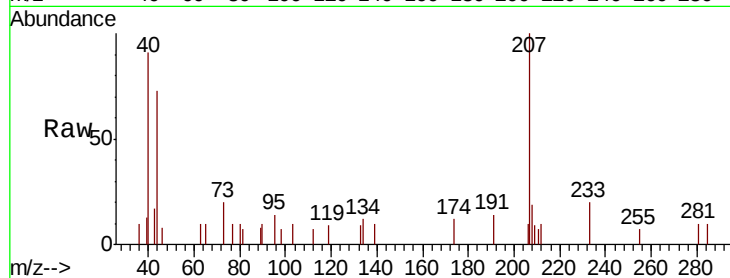
Ion Ratio Lower Upper

43 100

70 31.7 26.5 39.7

55 21.8 17.8 26.6

61 0.0 20.2 30.2#



#76

1,2,3-Trichloropropane

Concen: 1.176 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF062484.D

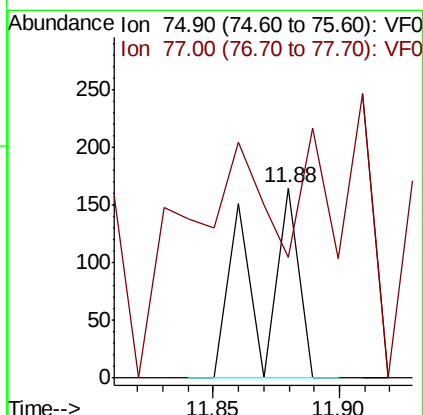
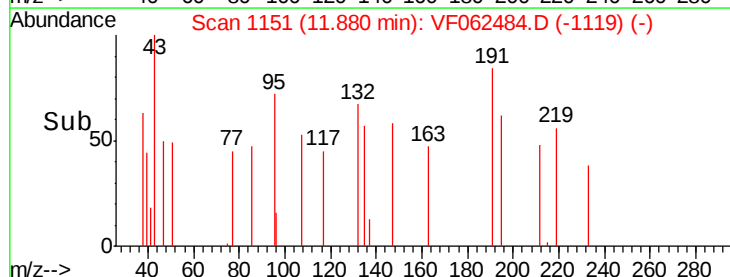
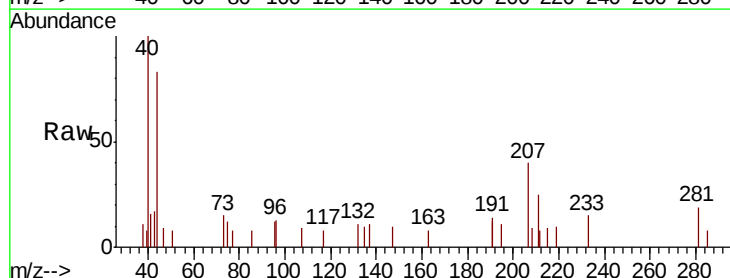
Acq: 12 May 2019 3:51

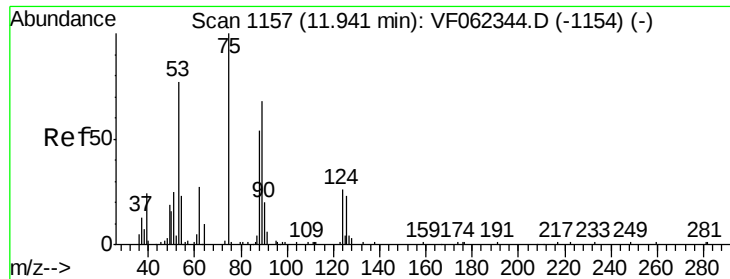
Tgt Ion: 75 Resp: 186

Ion Ratio Lower Upper

75 100

77 277.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 1.126 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

BFB

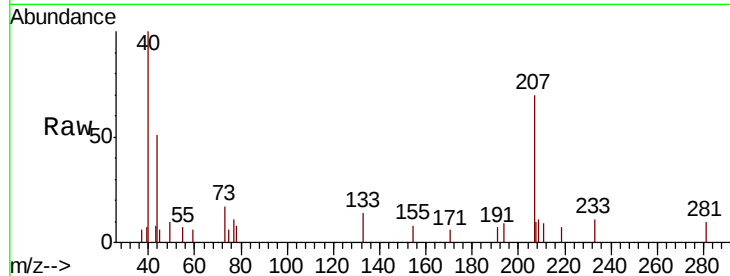
Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

53 95.5 71.9 107.9

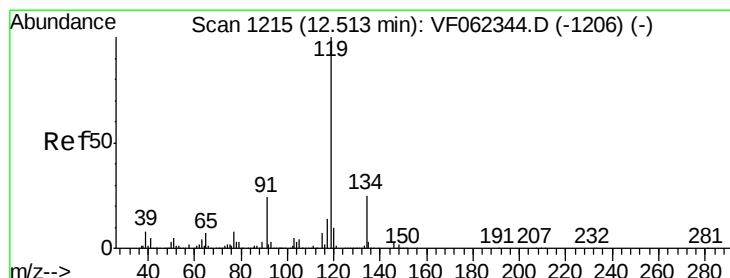
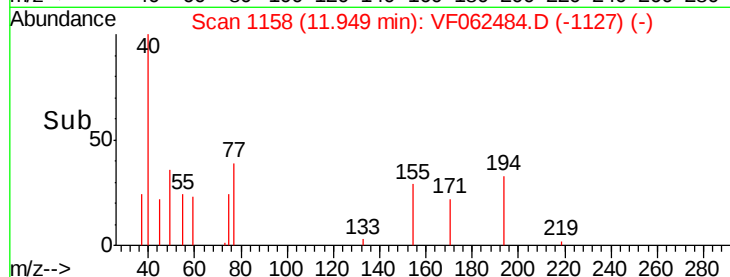
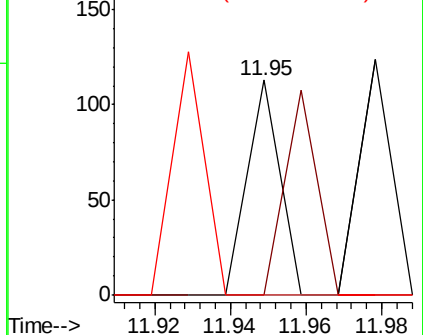
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#86

p-Isopropyltoluene

Concen: 1.016 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

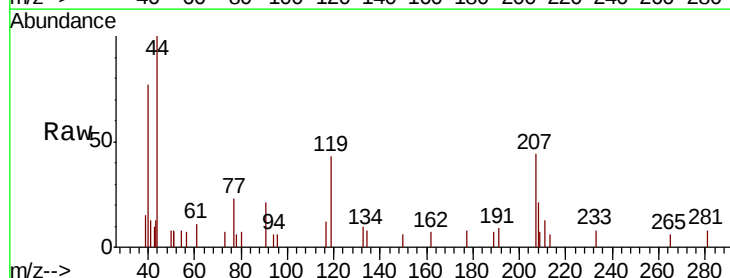
Tgt Ion: 119 Resp: 1402

Ion Ratio Lower Upper

119 100

134 25.5 12.9 38.7

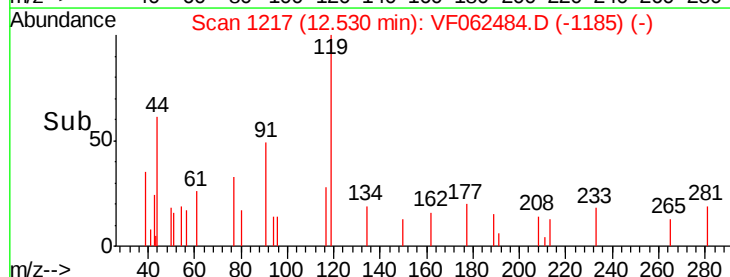
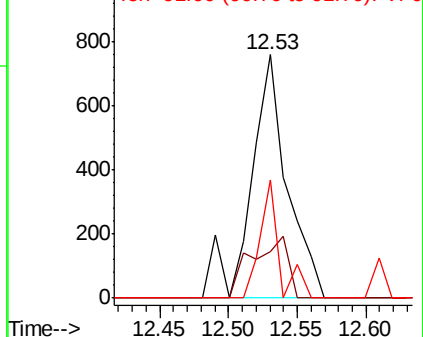
91 25.5 12.3 36.8

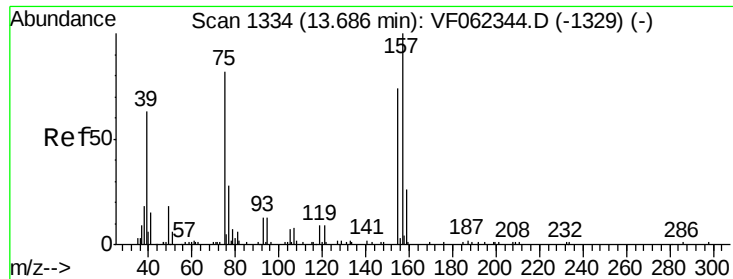


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.334 ug/l

RT: 13.80 min Scan# 1346

Delta R.T. 0.12 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

BFB

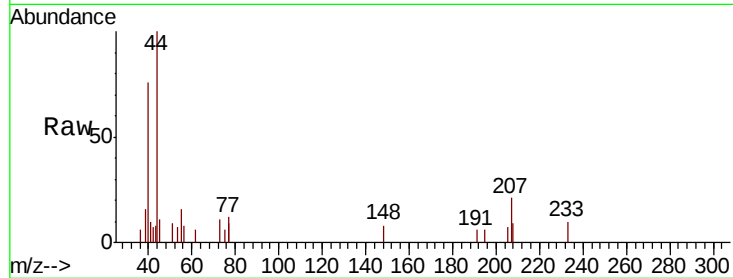
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

