

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062448.D
 Acq On : 11 May 2019 5:29
 Operator : FY/SY
 Sample : K2719-19
 Misc : 3.06g/5mL/MSVOA F/SOIL
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BFB

Quant Time: May 11 06:53:09 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	5.06	168	231403	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	268752	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.92	117	117038	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	35371	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	151096	69.09	ug/l	0.02
Spiked Amount 50.000			Recovery	=	138.18%	
35) Dibromofluoromethane	4.32	113	149130	69.65	ug/l	0.02
Spiked Amount 50.000			Recovery	=	139.30%	
50) Toluene-d8	7.73	98	200554	38.70	ug/l	0.02
Spiked Amount 50.000			Recovery	=	77.40%	
62) 4-Bromofluorobenzene	11.50	95	43863	18.76	ug/l	0.01
Spiked Amount 50.000			Recovery	=	37.52%	

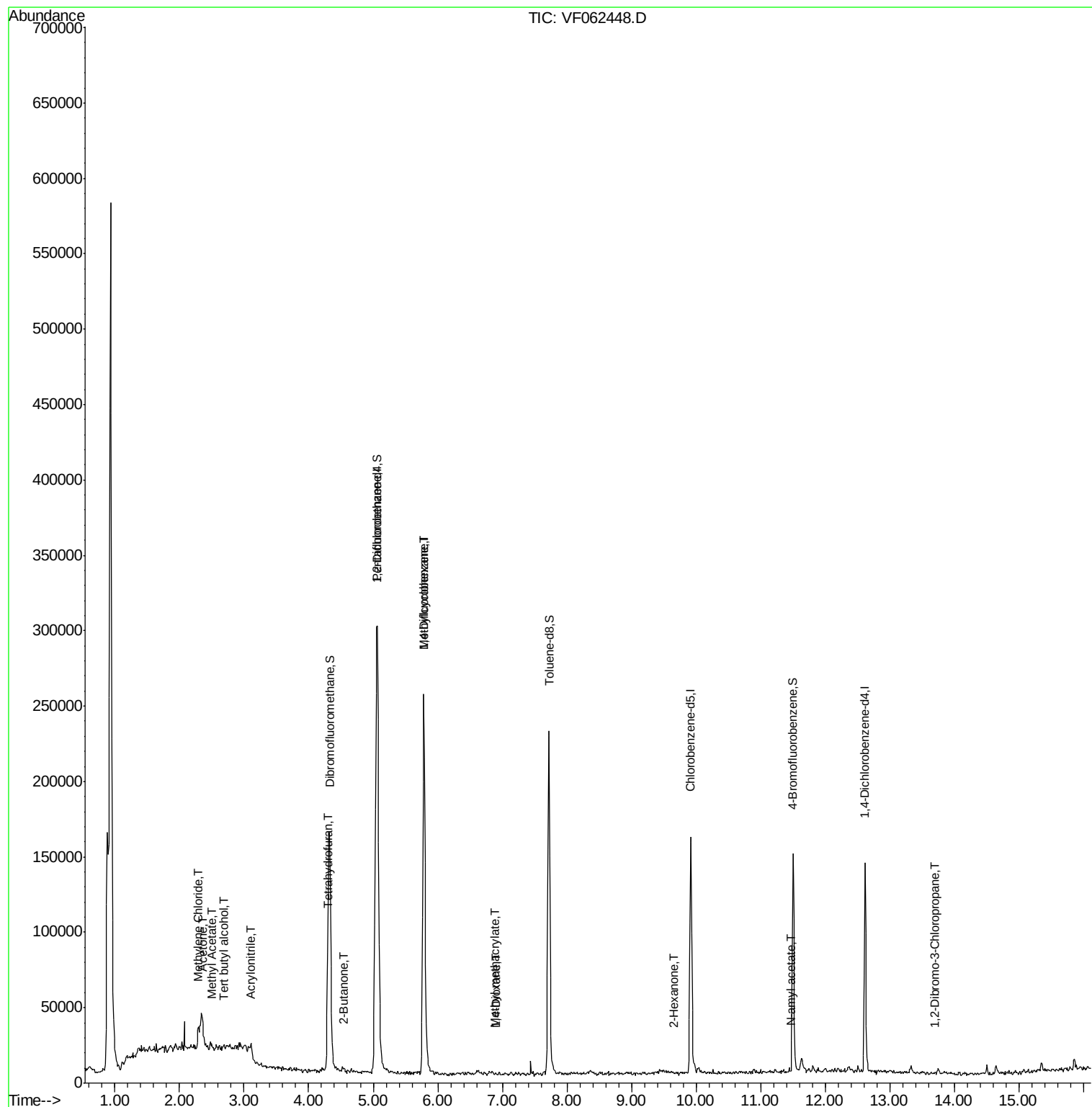
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	451	Below Cal	#	3
11) Tert butyl alcohol	2.69	59	1070	8.657	ug/l #	1
13) Acrolein	2.12	56	473	Below Cal	#	81
15) Acrylonitrile	3.09	53	635	2.712	ug/l #	5
16) Acetone	2.36	43	27276	61.657	ug/l	98
18) Methyl Acetate	2.50	43	4254	2.284	ug/l #	62
20) Methylene Chloride	2.29	84	13632	8.517	ug/l	96
25) 2-Butanone	4.54	43	3938	7.086	ug/l #	90
29) Tetrahydrofuran	4.28	42	349	1.366	ug/l #	50
37) Ethyl Acetate	4.31	43	231	Below Cal	#	73
38) Carbon Tetrachloride	4.16	117	61	Below Cal	#	71
39) Methylcyclohexane	5.79	83	4353	1.880	ug/l #	31
48) Methyl methacrylate	6.89	41	749	1.009	ug/l #	36
49) 1,4-Dioxane	6.91	88	171	9.461	ug/l #	1
59) 2-Hexanone	9.64	43	1277	2.321	ug/l #	51
74) N-amyl acetate	11.46	43	475	1.055	ug/l #	68
92) 1,2-Dibromo-3-Chloropropan	13.69	75	329	4.473	ug/l #	10

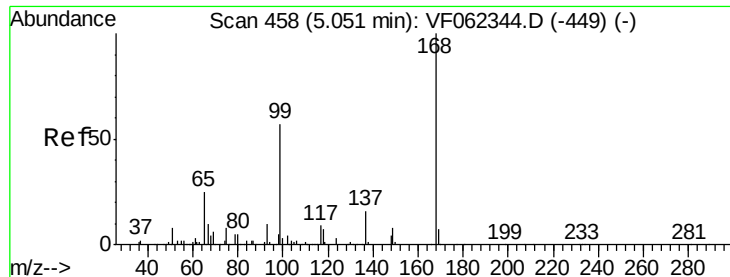
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

Instrument :

MSVOA_F

ClientSampleId :

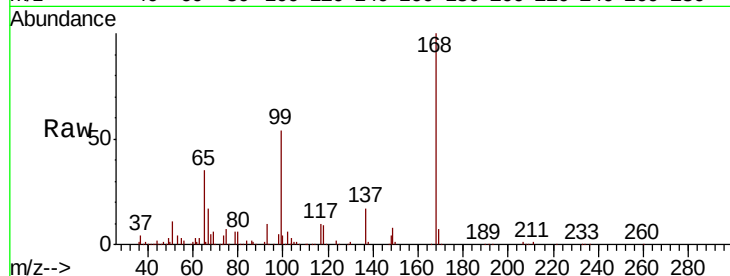
BFB

Tot Ion:168 Resp: 231403

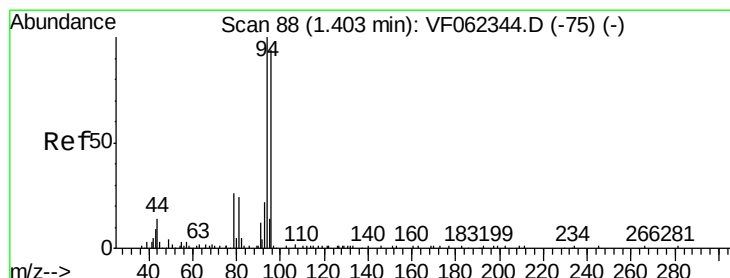
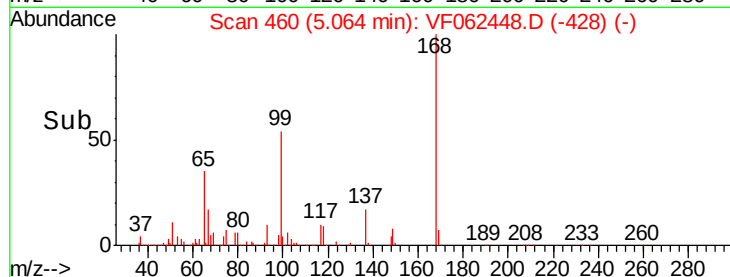
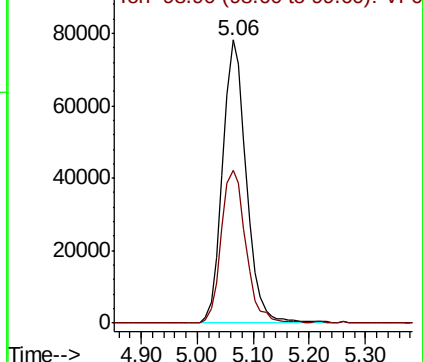
Ion Ratio Lower Upper

168 100

99 54.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.00 min

Lab File: VF062448.D

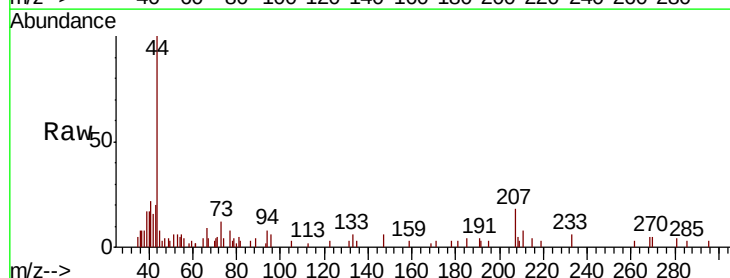
Acq: 11 May 2019 5:29

Tgt Ion: 94 Resp: 451

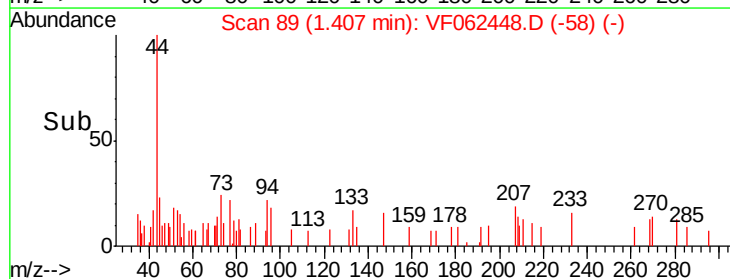
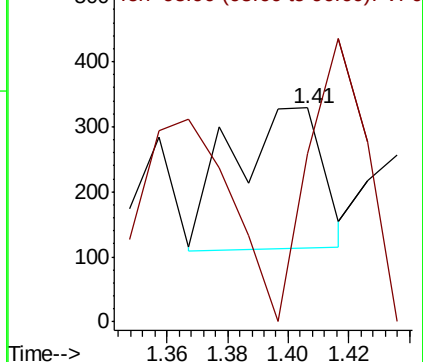
Ion Ratio Lower Upper

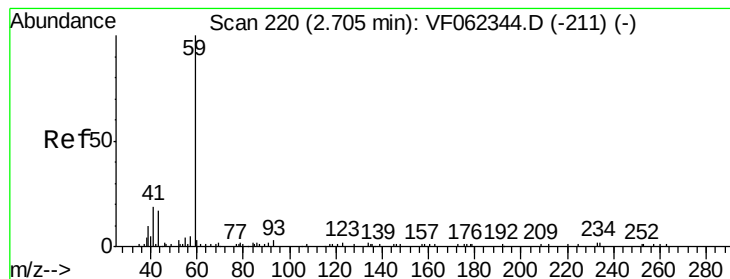
94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0





#11

Tert butyl alcohol

Concen: 8.657 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

Instrument :

MSVOA_F

ClientSampled :

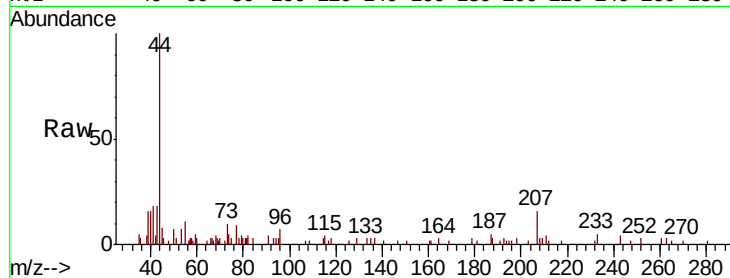
BFB

Tot Ion: 59 Resp: 1070

Ion Ratio Lower Upper

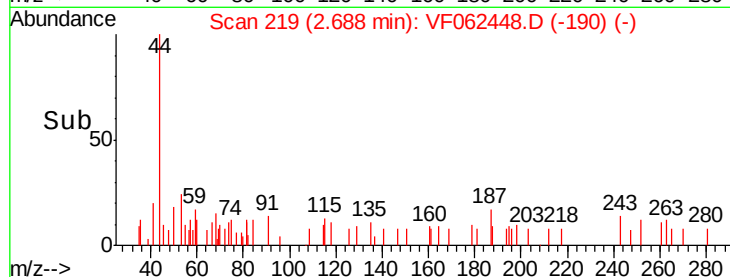
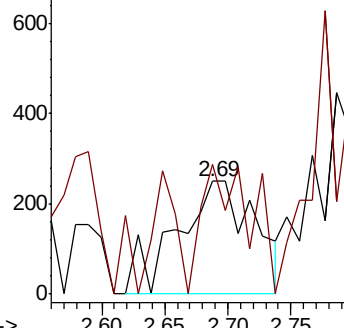
59 100

57 72.6 9.3 13.9#

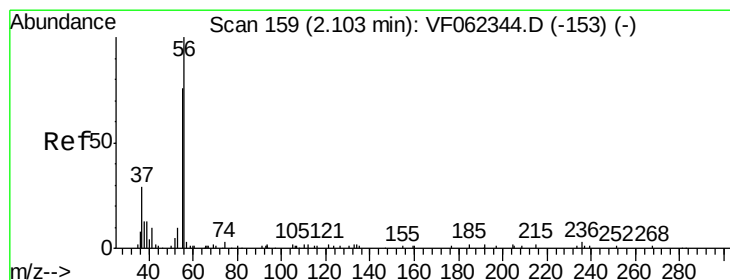


Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time-->



#13

Acrolein

Concen: Below Cal

RT: 2.12 min Scan# 161

Delta R.T. 0.01 min

Lab File: VF062448.D

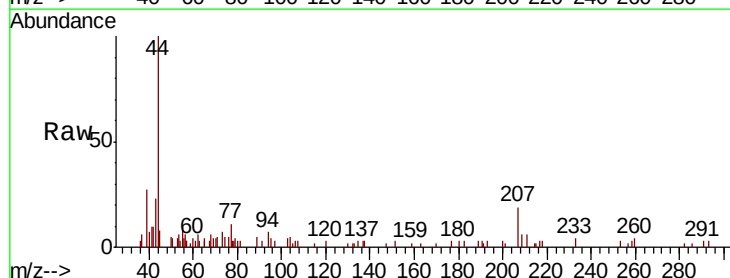
Acq: 11 May 2019 5:29

Tgt Ion: 56 Resp: 473

Ion Ratio Lower Upper

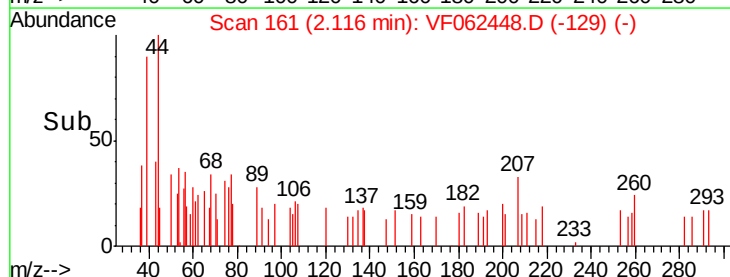
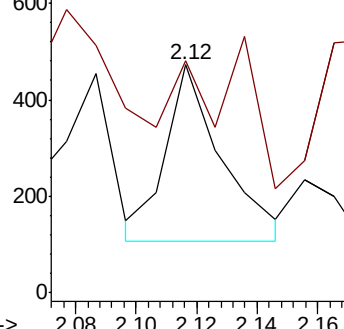
56 100

55 88.8 58.4 87.6#

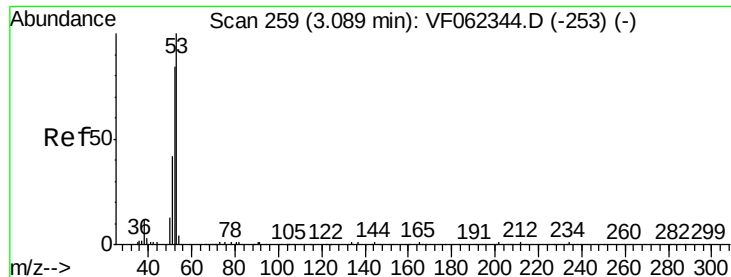


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#15

Acrylonitrile

Concen: 2.712 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

Instrument :

MSVOA_F

ClientSampleId :

BFB

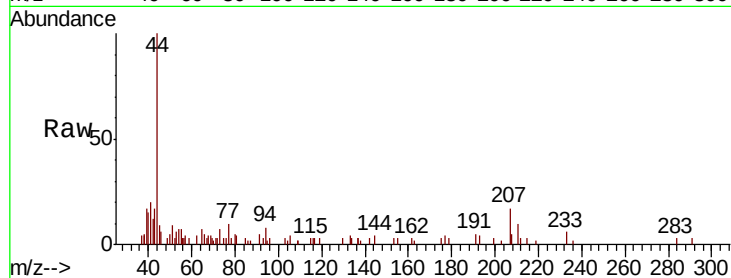
Tot Ion: 53 Resp: 635

Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

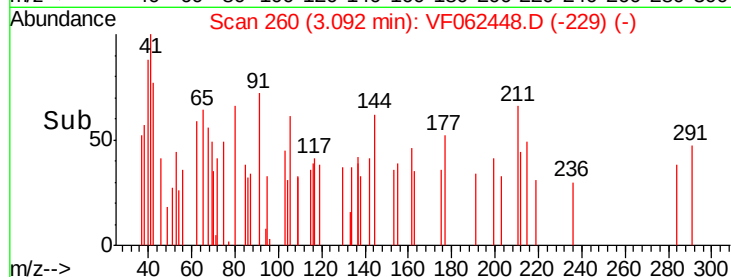
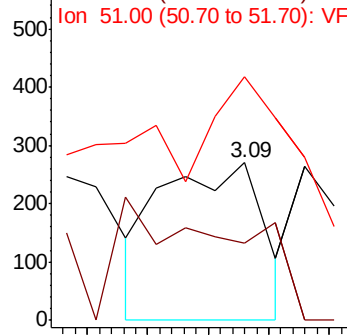
51 113.1 40.6 61.0#



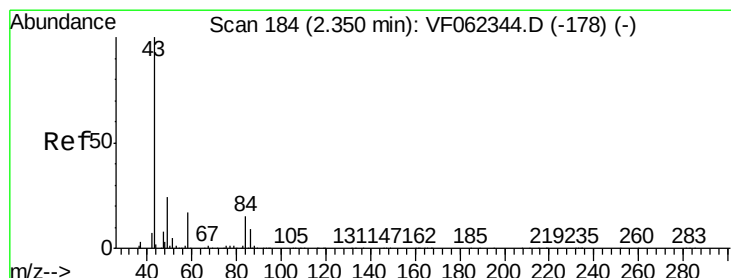
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 61.657 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062448.D

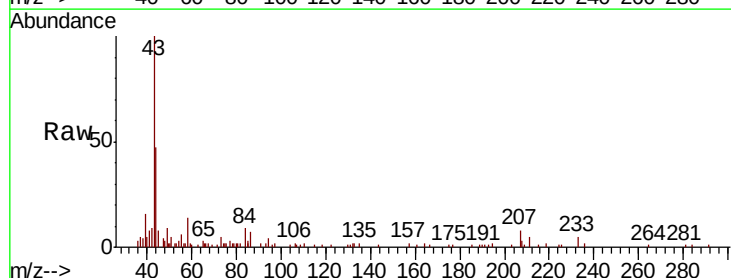
Acq: 11 May 2019 5:29

Tgt Ion: 43 Resp: 27276

Ion Ratio Lower Upper

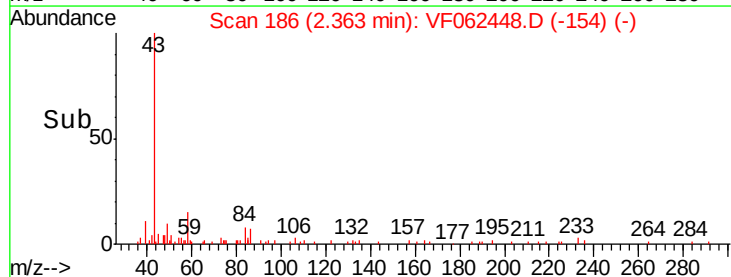
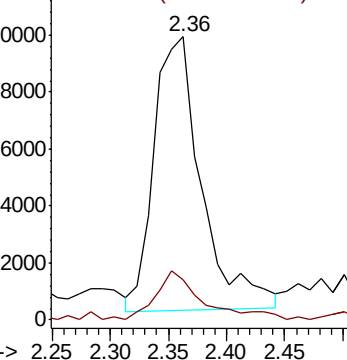
43 100

58 15.6 13.1 19.7

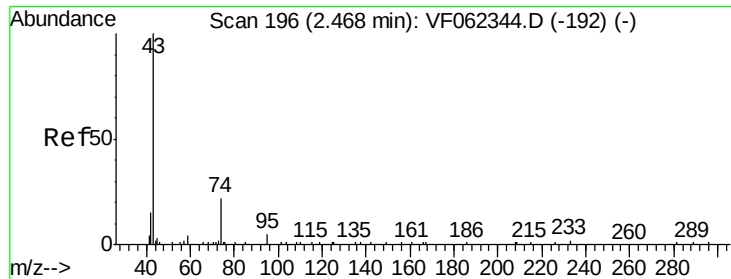


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



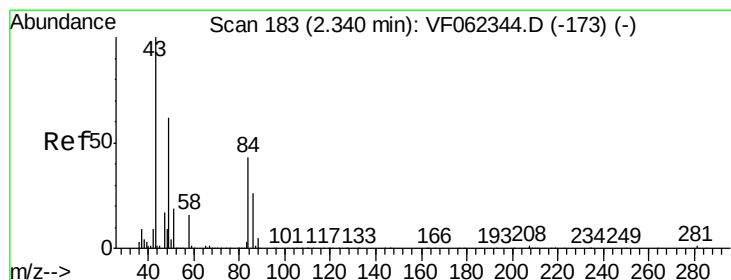
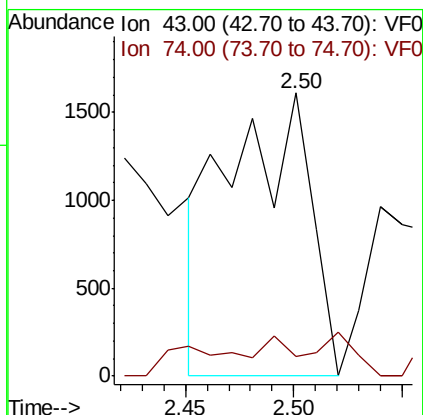
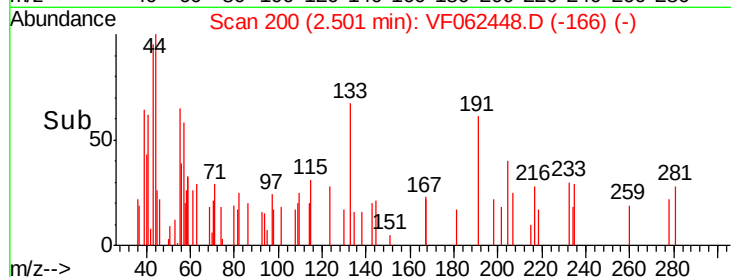
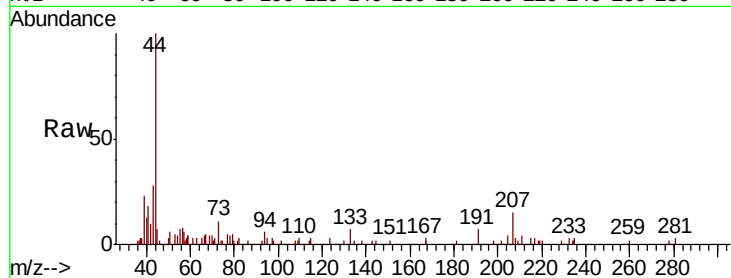
Time-->



#18
Methyl Acetate
Concen: 2.284 ug/l
RT: 2.50 min Scan# 200
Delta R.T. 0.03 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

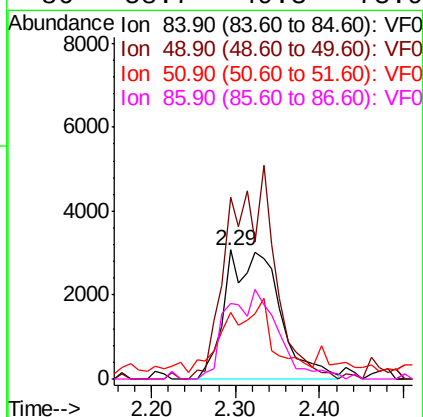
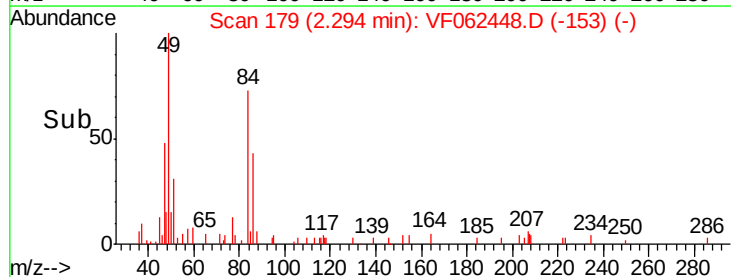
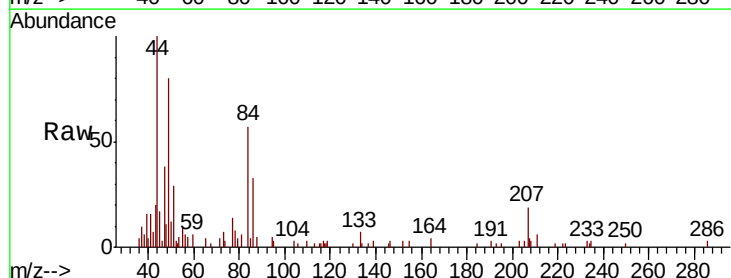
Instrument :
MSVOA_F
ClientSampled :
BFB

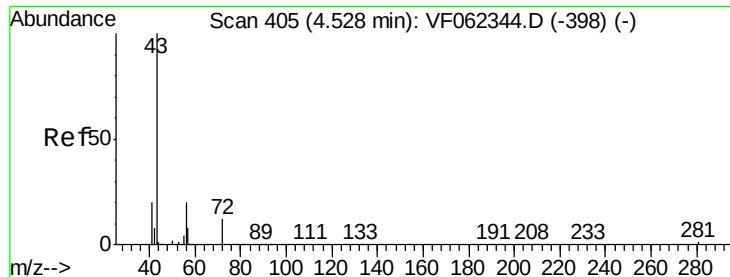
Tot Ion: 43 Resp: 4254
Ion Ratio Lower Upper
43 100
74 1.8 15.0 22.4#



#20
Methylene Chloride
Concen: 8.517 ug/l
RT: 2.29 min Scan# 179
Delta R.T. -0.05 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

Tgt Ion: 84 Resp: 13632
Ion Ratio Lower Upper
84 100
49 140.7 117.5 176.3
51 46.4 37.0 55.4
86 58.7 49.3 73.9

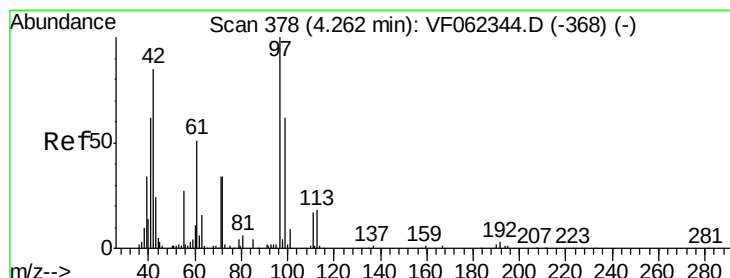
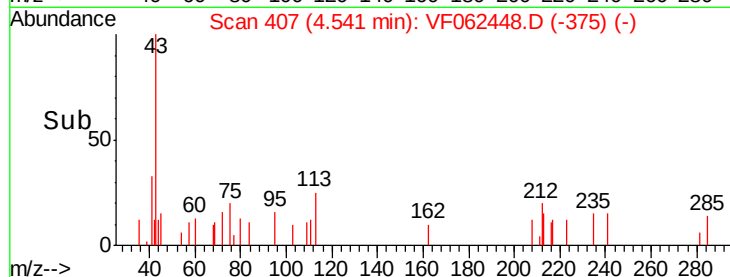
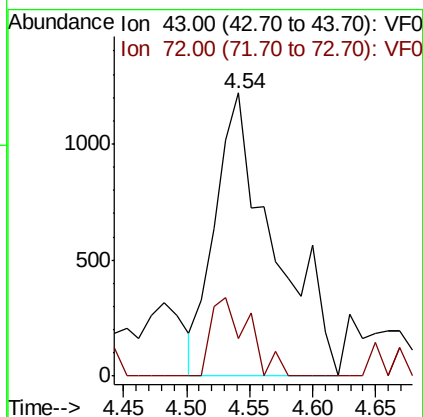
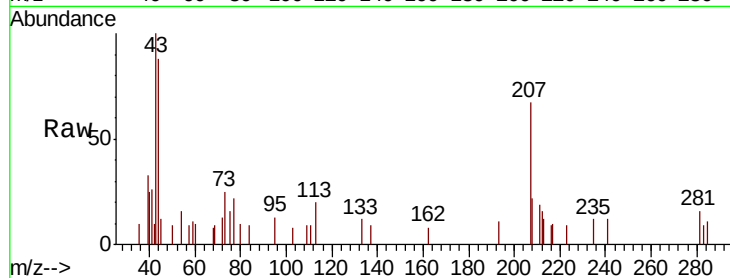




#25
2-Butanone
Concen: 7.086 ug/l
RT: 4.54 min Scan# 407
Delta R.T. 0.01 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

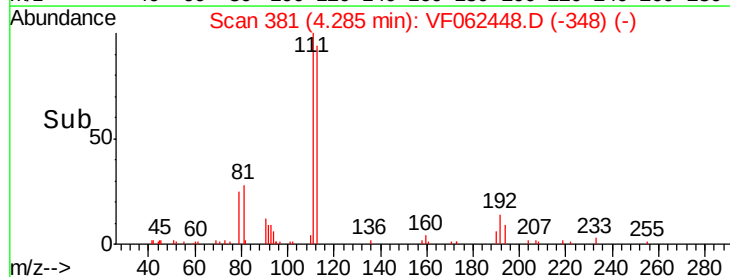
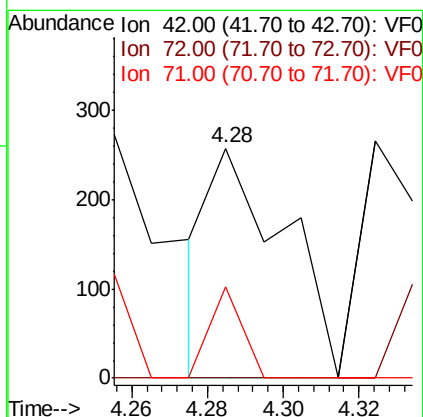
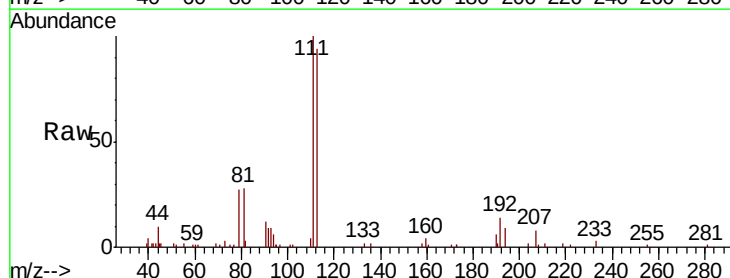
Instrument :
MSVOA_F
ClientSampled :
BFB

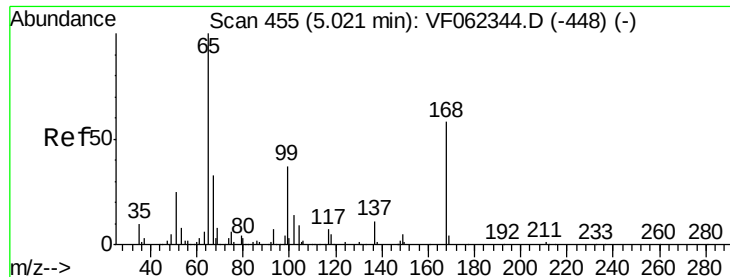
Tot Ion: 43 Resp: 3938
Ion Ratio Lower Upper
43 100
72 13.3 14.2 21.4#



#29
Tetrahydrofuran
Concen: 1.366 ug/l
RT: 4.28 min Scan# 381
Delta R.T. 0.02 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

Tgt Ion: 42 Resp: 349
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 17.5 31.7 47.5#

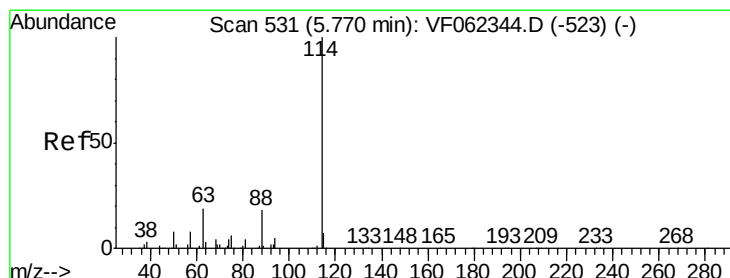
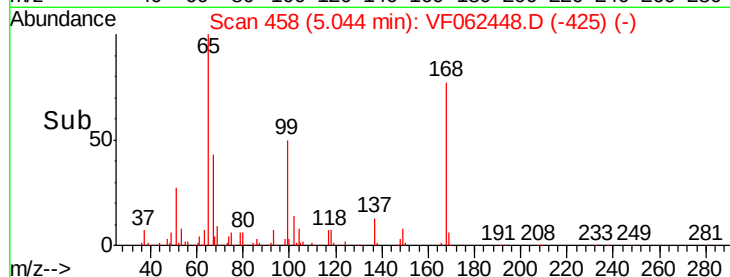
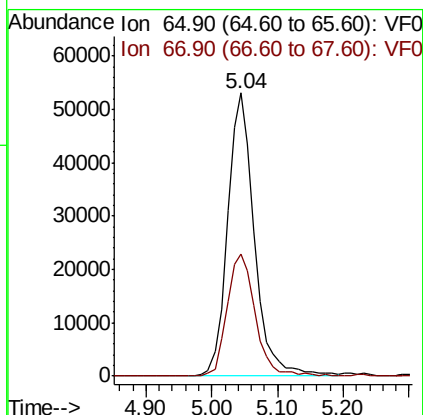
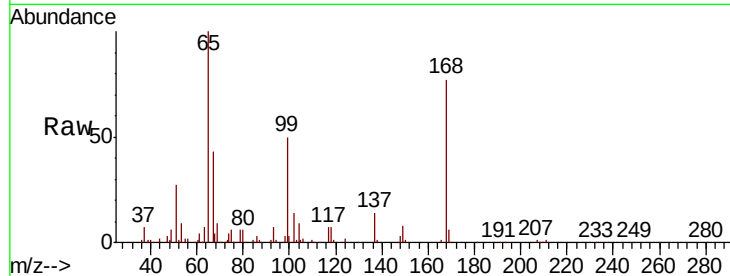




#33
 1,2-Dichloroethane-d4
 Concen: 69.093 ug/l
 RT: 5.04 min Scan# 458
 Delta R.T. 0.02 min
 Lab File: VF062448.D
 Acq: 11 May 2019 5:29

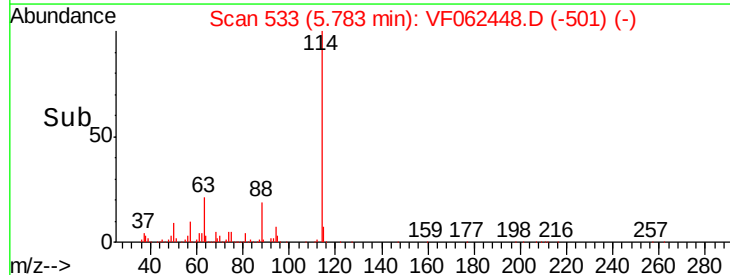
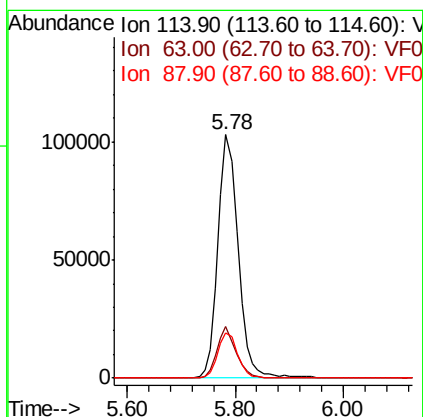
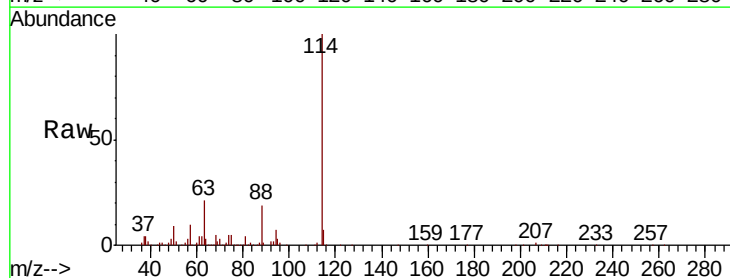
Instrument :
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 ClientSampleId :
 BFB

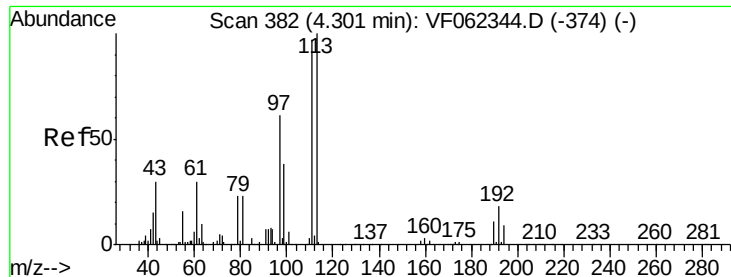
Tot Ion: 65 Resp: 151096
 Ion Ratio Lower Upper
 65 100
 67 45.8 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062448.D
 Acq: 11 May 2019 5:29

Tgt Ion: 114 Resp: 268752
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 37.4
 88 18.8 0.0 36.4

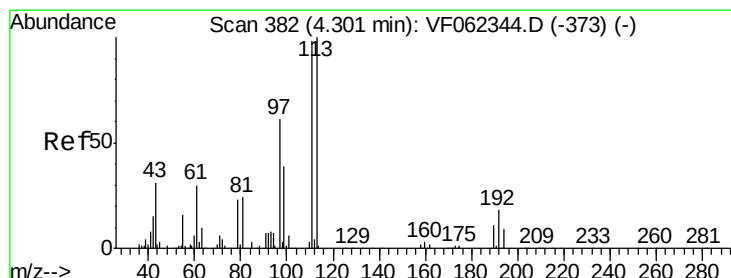
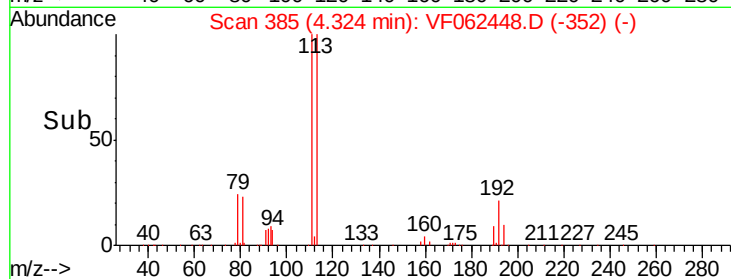
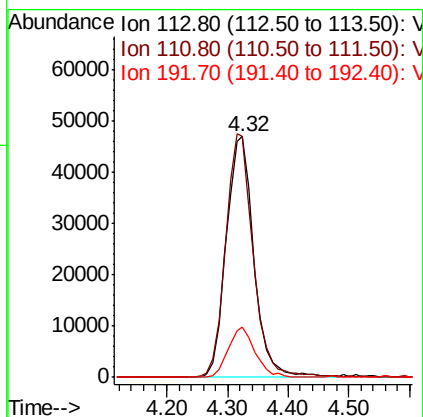
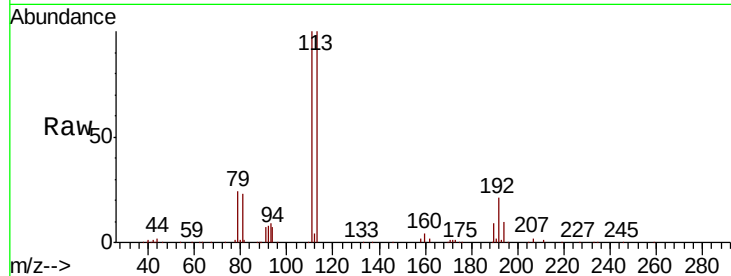




#35
 Dibromofluoromethane
 Concen: 69.651 ug/l
 RT: 4.32 min Scan# 385
 Delta R.T. 0.02 min
 Lab File: VF062448.D
 Acq: 11 May 2019 5:29

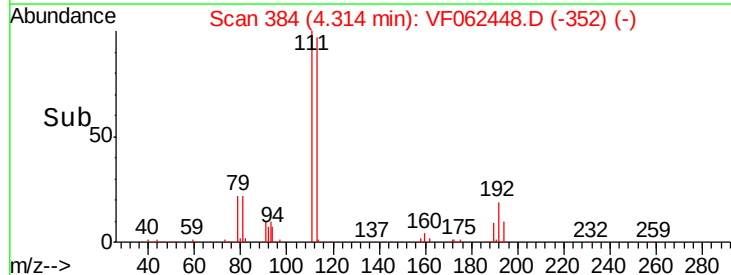
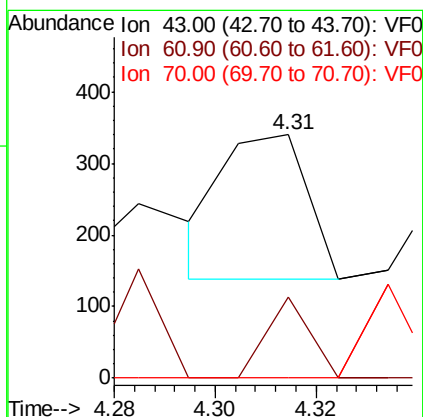
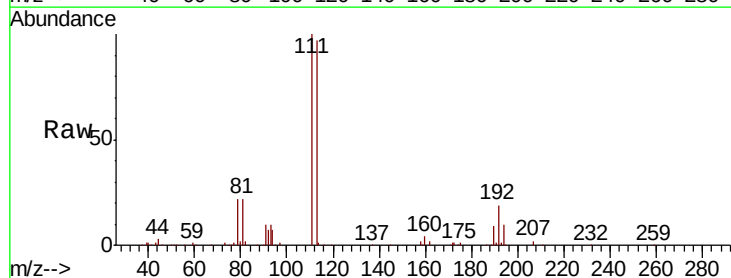
Instrument :
 MSVOA_F
 ClientSampled :
 BFB

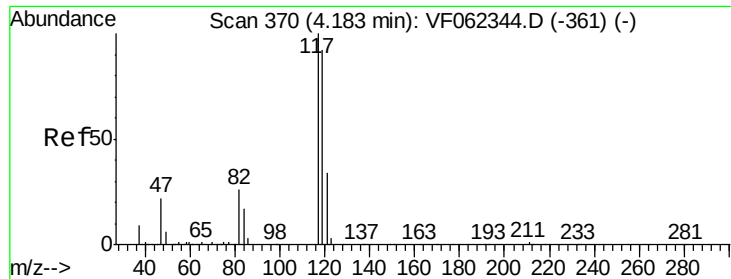
Tot Ion:113 Resp: 149130
 Ion Ratio Lower Upper
 113 100
 111 100.6 79.4 119.0
 192 20.3 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.31 min Scan# 384
 Delta R.T. 0.01 min
 Lab File: VF062448.D
 Acq: 11 May 2019 5:29

Tgt Ion: 43 Resp: 231
 Ion Ratio Lower Upper
 43 100
 61 29.0 0.0 0.0#
 70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.16 min Scan# 368

Delta R.T. -0.03 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

Instrument :

MSVOA_F

ClientSampleId :

BFB

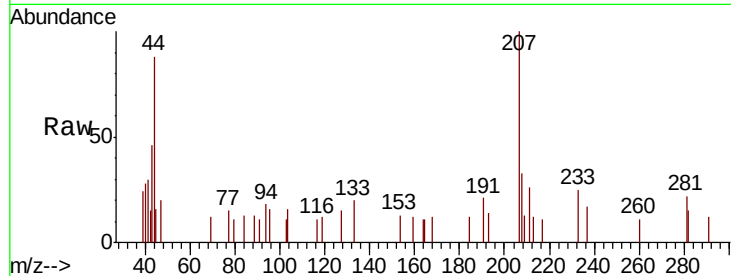
Tot Ion:117 Resp: 61

Ion Ratio Lower Upper

117 100

119 108.7 73.4 110.2

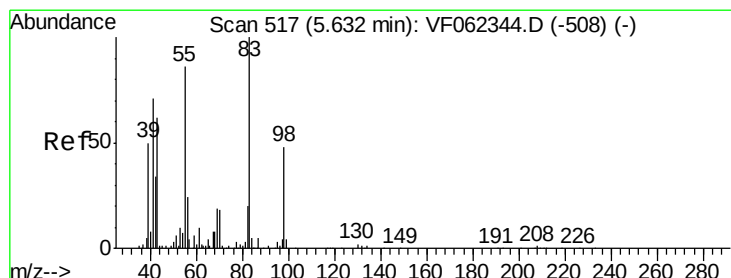
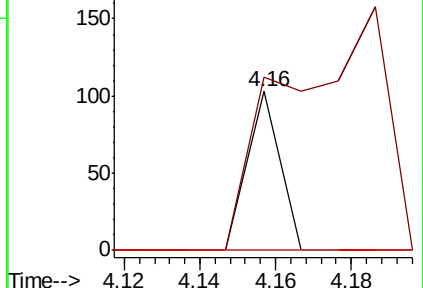
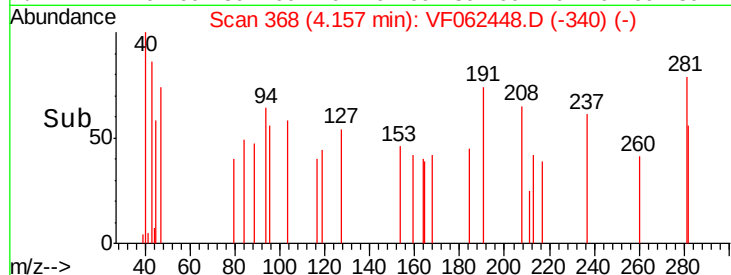
121 0.0 27.4 41.0#



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



#39

Methylcyclohexane

Concen: 1.880 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.16 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

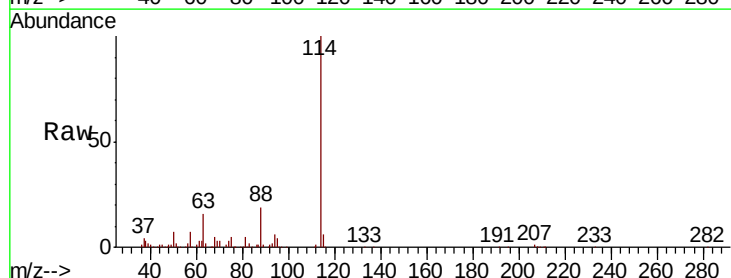
Tgt Ion: 83 Resp: 4353

Ion Ratio Lower Upper

83 100

55 23.7 69.0 103.6#

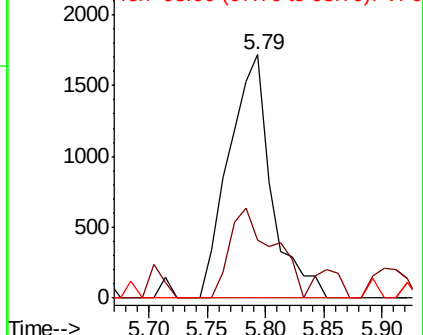
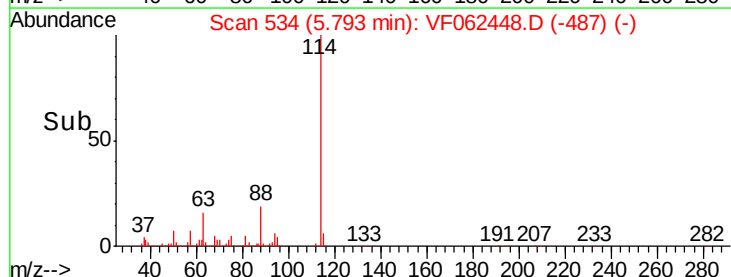
98 0.0 38.6 58.0#

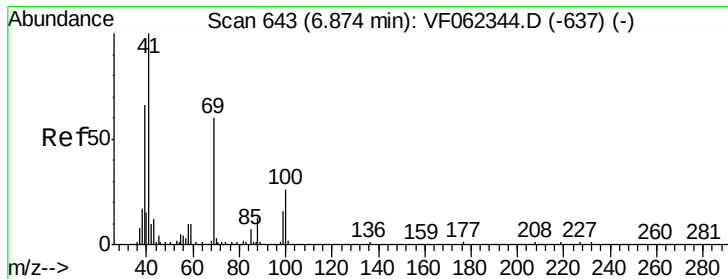


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

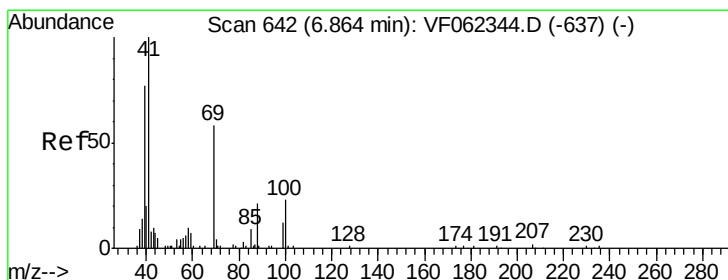
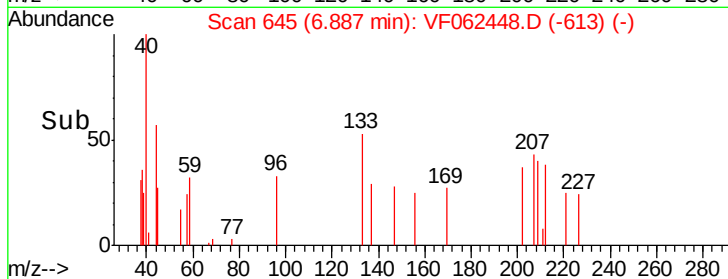
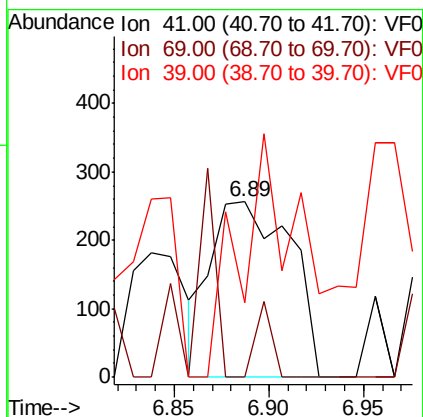
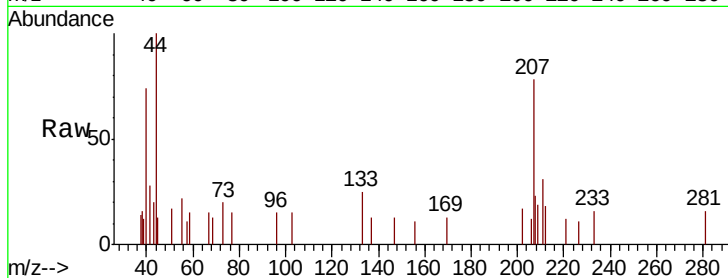




#48
Methyl methacrylate
Concen: 1.009 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.01 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

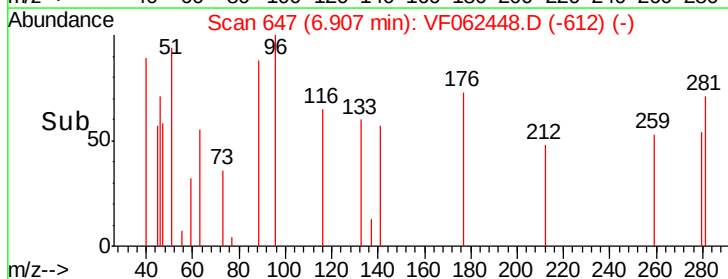
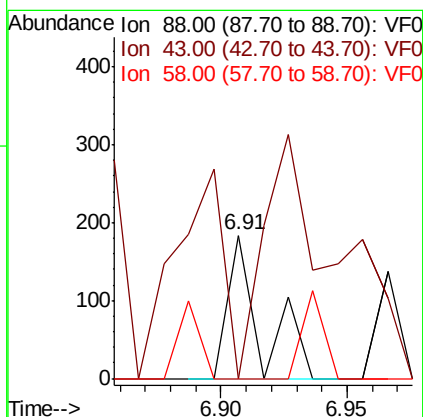
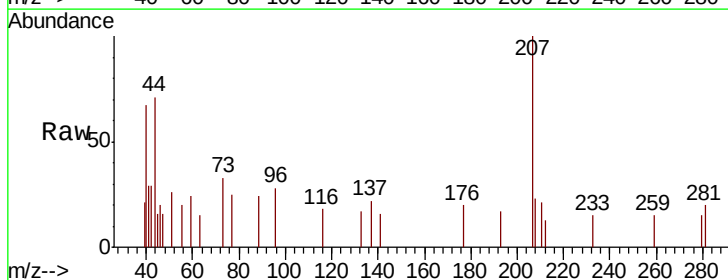
Instrument :
MSVOA_F
ClientSampled :
BFB

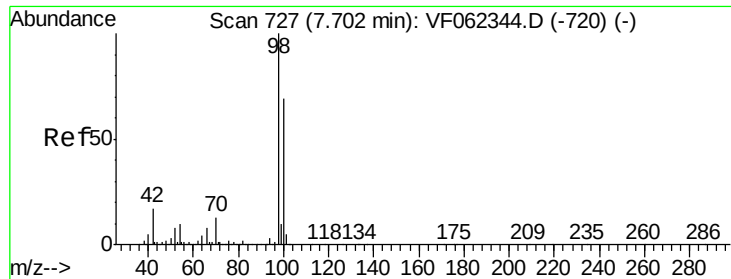
Tot Ion: 41 Resp: 749
Ion Ratio Lower Upper
41 100
69 8.7 48.6 72.8#
39 119.8 56.1 84.1#



#49
1,4-Dioxane
Concen: 9.461 ug/l
RT: 6.91 min Scan# 647
Delta R.T. 0.04 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

Tgt Ion: 88 Resp: 171
Ion Ratio Lower Upper
88 100
43 207.6 55.6 83.4#
58 34.5 52.8 79.2#

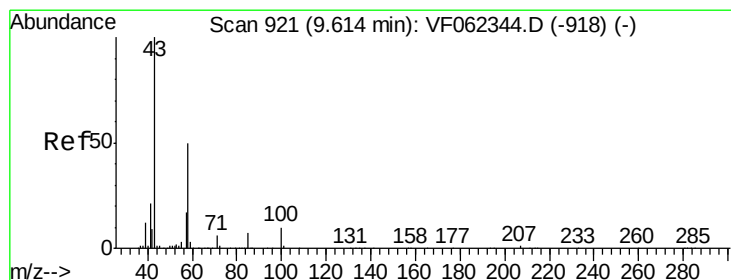
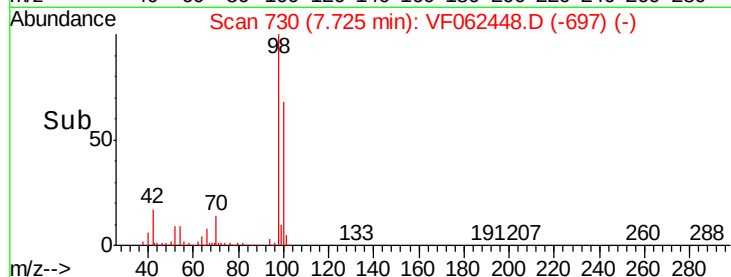
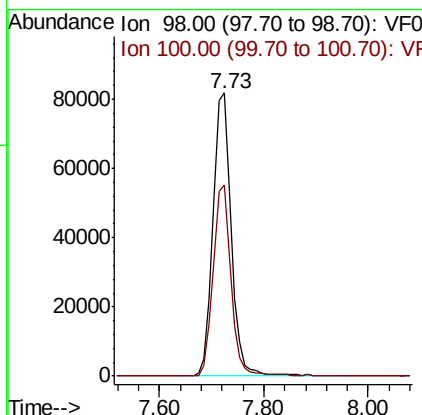
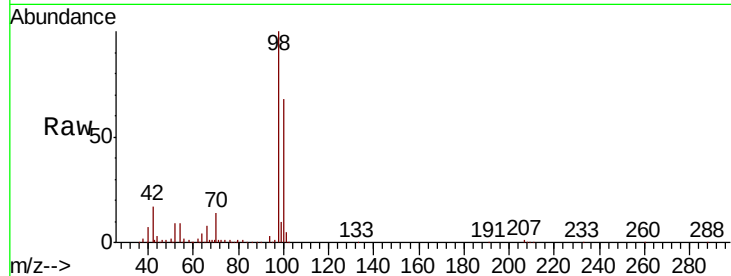




#50
Toluene-d8
Concen: 38.696 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.02 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

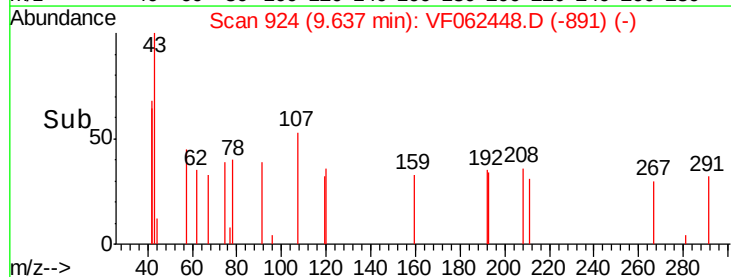
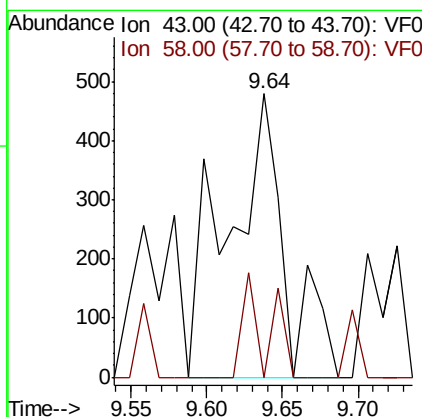
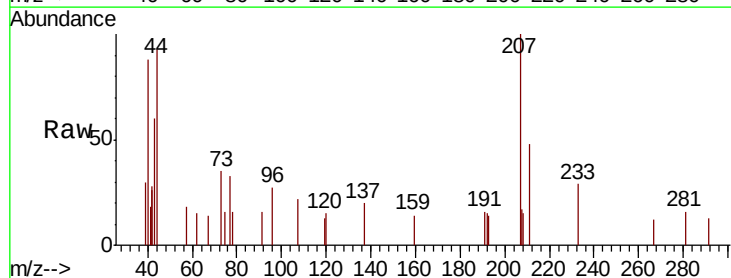
Instrument :
MSVOA_F
ClientSampleId :
BFB

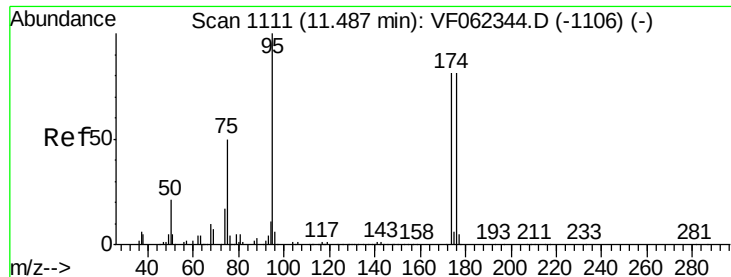
Tot Ion: 98 Resp: 200554
Ion Ratio Lower Upper
98 100
100 65.3 53.3 79.9



#59
2-Hexanone
Concen: 2.321 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

Tgt Ion: 43 Resp: 1277
Ion Ratio Lower Upper
43 100
58 15.1 24.3 73.0#





#62

4-Bromofluorobenzene

Concen: 18.758 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

Instrument :

MSVOA_F

ClientSampleId :

BFB

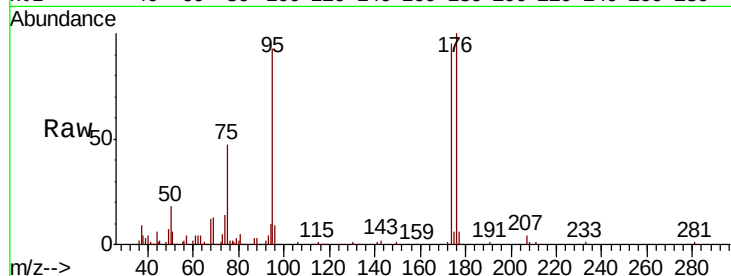
Tot Ion: 95 Resp: 43863

Ion Ratio Lower Upper

95 100

174 101.7 0.0 191.8

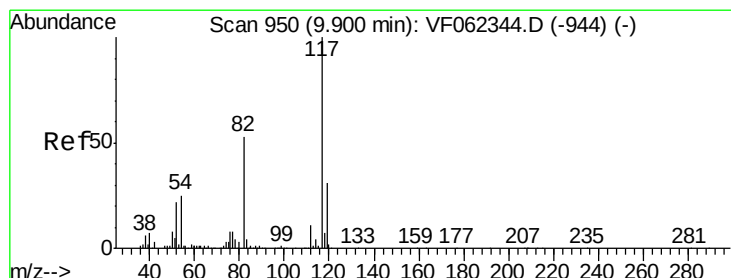
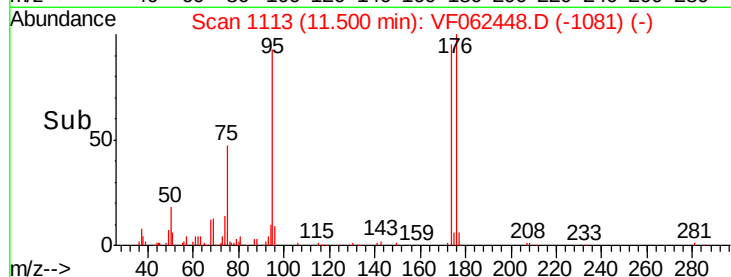
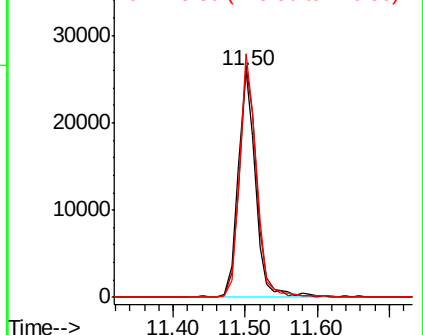
176 103.2 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

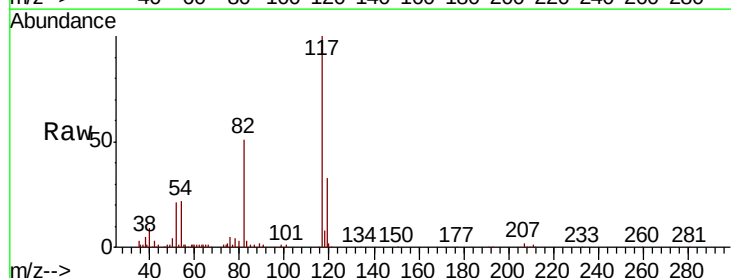
Tgt Ion: 117 Resp: 117038

Ion Ratio Lower Upper

117 100

82 50.7 42.2 63.2

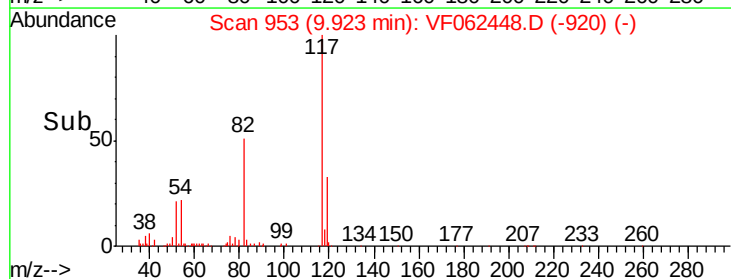
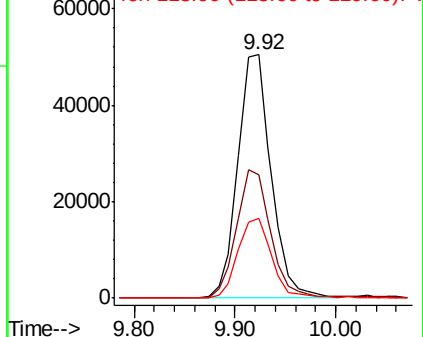
119 32.6 25.0 37.4

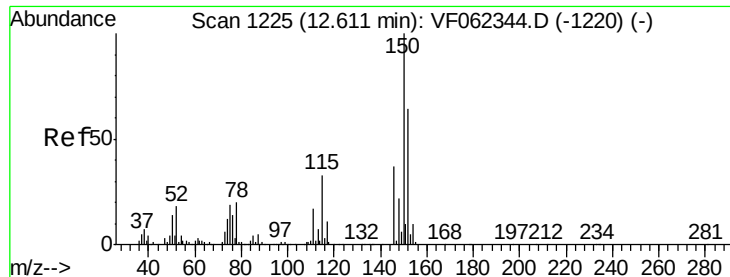


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



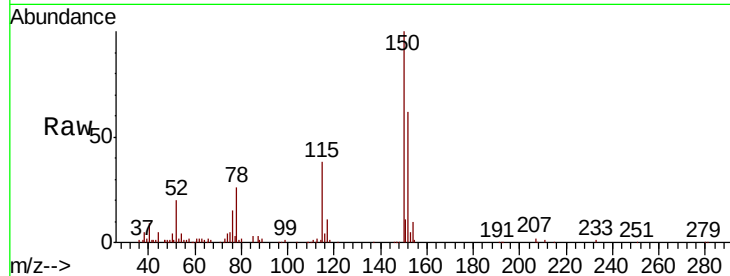


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

Instrument :
MSVOA_F
ClientSampled :
BFB

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.3	26.4	79.2
150	157.1	0.0	335.0

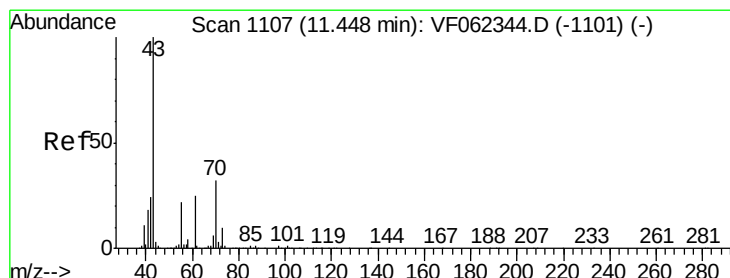
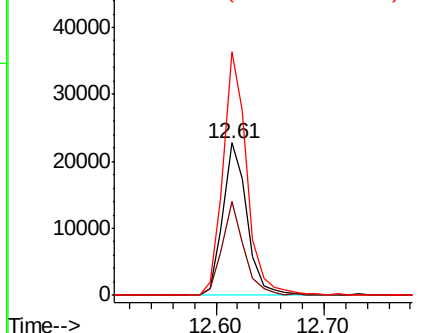
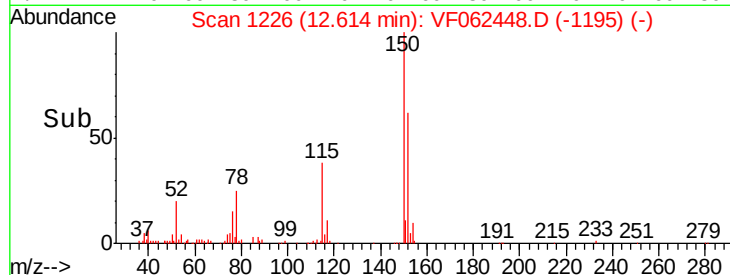


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

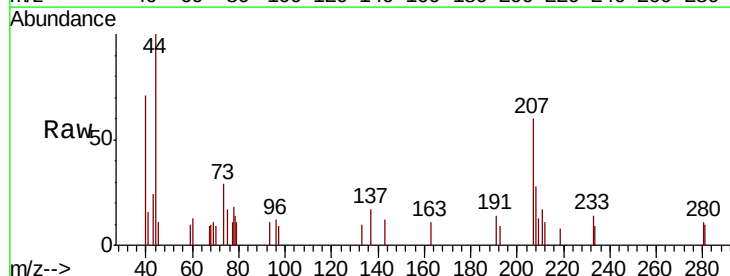
Ion 149.90 (149.60 to 150.60): V



#74

N-amil acetate
Concen: 1.055 ug/l
RT: 11.46 min Scan# 1109
Delta R.T. 0.01 min
Lab File: VF062448.D
Acq: 11 May 2019 5:29

Tgt Ion	Ratio	Lower	Upper
43	100		
70	37.7	26.5	39.7
55	0.0	17.8	26.6#
61	0.0	20.2	30.2#



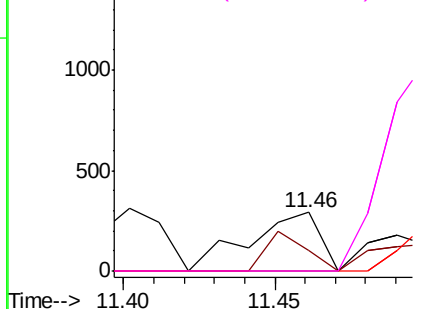
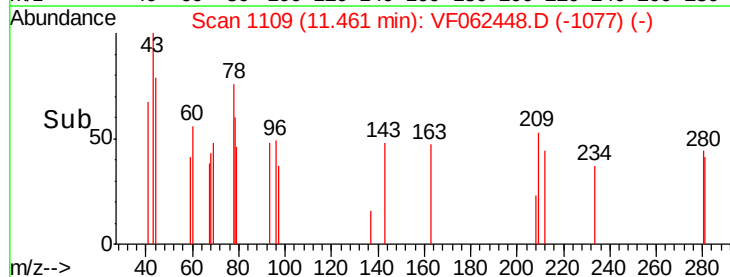
Abundance

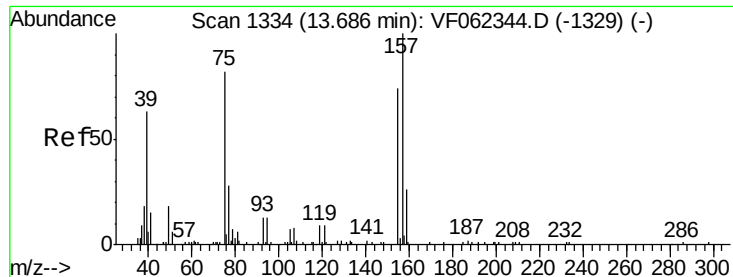
Ion 43.00 (42.70 to 43.70): VF0

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





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.473 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VF062448.D

Acq: 11 May 2019 5:29

Instrument :

MSVOA_F

ClientSampleId :

BFB

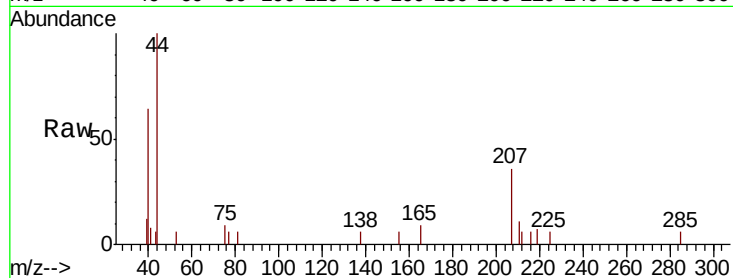
Tot Ion: 75 Resp: 329

Ion Ratio Lower Upper

75 100

155 41.9 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

