

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF050819\
 Data File : VF062390.D
 Acq On : 8 May 2019 21:16
 Operator : FY/SY
 Sample : K2672-05RE
 Misc : 5.08g/5mL/MSVOA F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-03-1.0-1.5RE

Quant Time: May 09 05:05:06 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	5.03	168	184354	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	262135	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.89	117	172456	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.60	152	63312	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	86691	49.76	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.52%		
35) Dibromofluoromethane	4.28	113	109628	52.49	ug/l	-0.02
Spiked Amount 50.000			Recovery =	104.98%		
50) Toluene-d8	7.69	98	188812	37.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	74.70%		
62) 4-Bromofluorobenzene	11.48	95	65346	28.65	ug/l	0.00
Spiked Amount 50.000			Recovery =	57.30%		

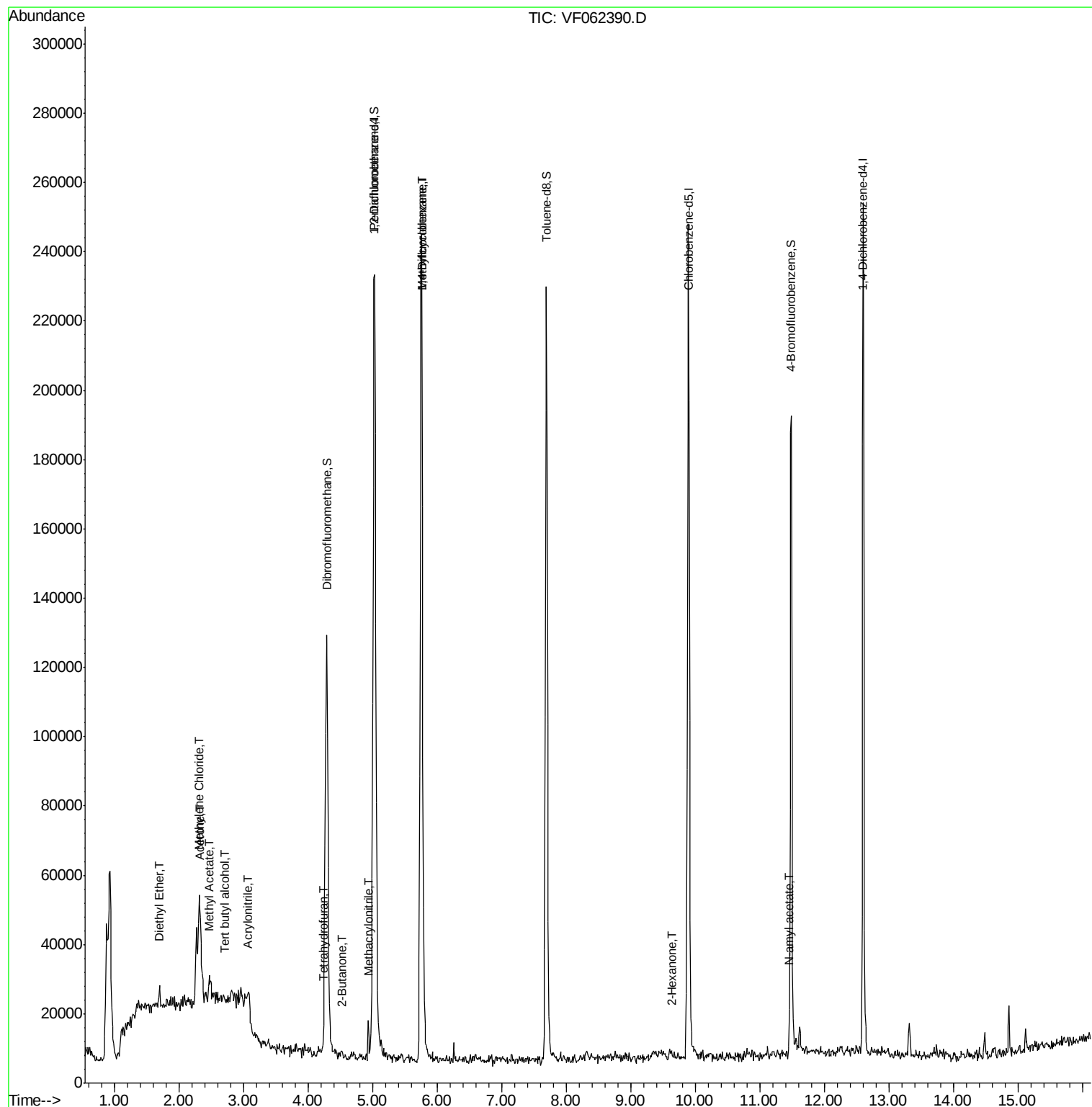
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	467	Below Cal	#	6
8) Diethyl Ether	1.70	74	1576	3.577	ug/l #	38
11) Tert butyl alcohol	2.71	59	887	9.008	ug/l #	1
13) Acrolein	2.09	56	531	Below Cal	#	82
15) Acrylonitrile	3.06	53	758	4.064	ug/l #	35
16) Acetone	2.33	43	5017	14.235	ug/l #	42
18) Methyl Acetate	2.48	43	6454	7.371	ug/l #	79
20) Methylene Chloride	2.32	84	26327	20.647	ug/l	99
25) 2-Butanone	4.52	43	839	1.895	ug/l #	60
29) Tetrahydrofuran	4.23	42	274	1.346	ug/l #	54
37) Ethyl Acetate	4.29	43	545	Below Cal	#	51
38) Carbon Tetrachloride	4.23	117	63	Below Cal	#	80
39) Methylcyclohexane	5.75	83	3852	1.706	ug/l #	46
41) Methacrylonitrile	4.93	41	762	1.411	ug/l #	43
49) 1,4-Dioxane	6.90	88	88	Below Cal	#	1
59) 2-Hexanone	9.62	43	1162	2.165	ug/l	92
74) N-amyl acetate	11.45	43	1021	1.267	ug/l #	58

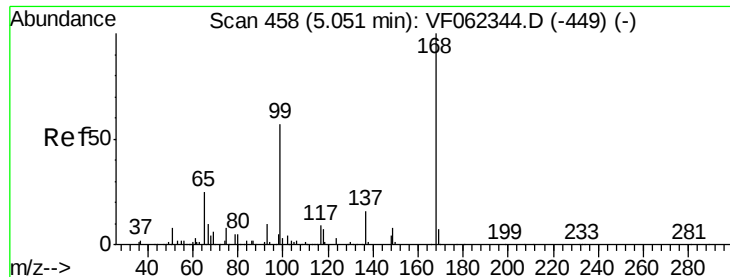
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.03 min Scan# 456

Delta R.T. -0.02 min

Lab File: VF062390.D

Acq: 8 May 2019 21:16

Instrument :

MSVOA_F

ClientSampleId :

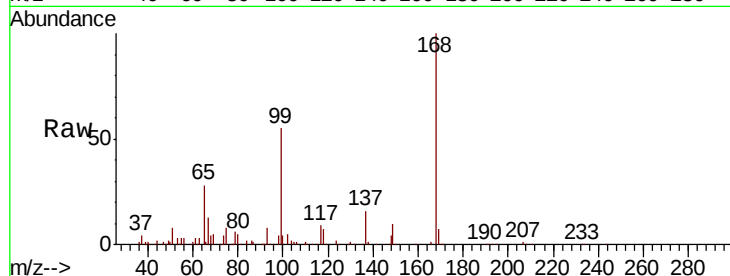
SB-03-1.0-1.5RE

Tot Ion:168 Resp: 184354

Ion Ratio Lower Upper

168 100

99 55.3 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.03

60000

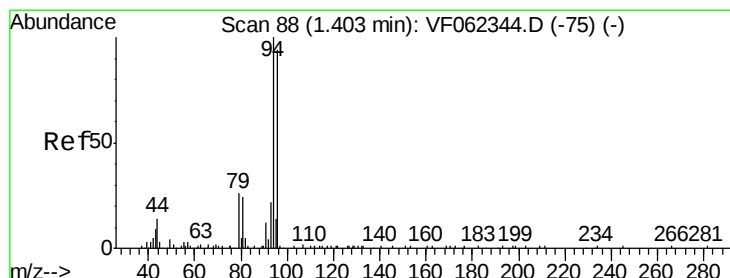
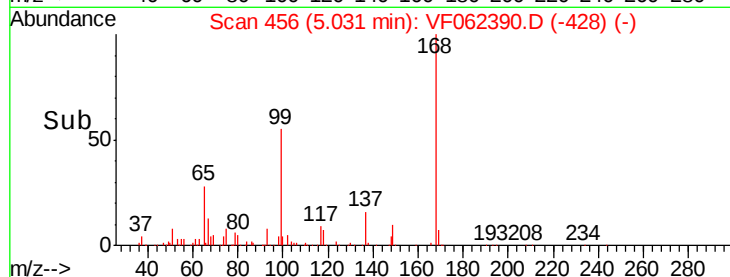
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. 0.00 min

Lab File: VF062390.D

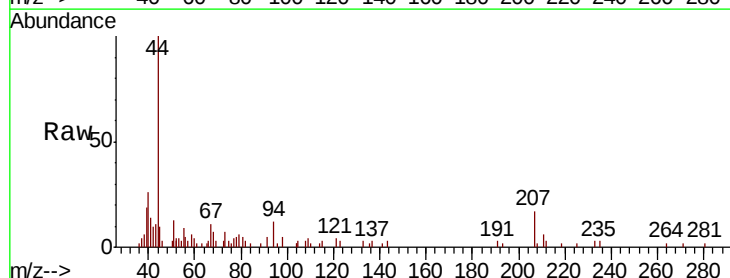
Acq: 8 May 2019 21:16

Tgt Ion: 94 Resp: 467

Ion Ratio Lower Upper

94 100

96 3.2 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.40

600

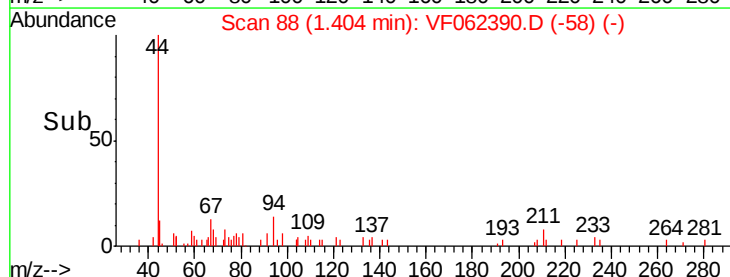
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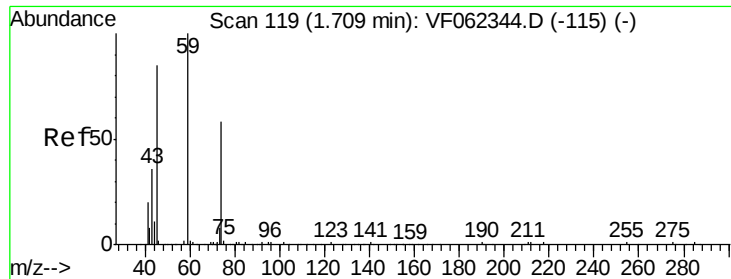
200

0

Time-->

1.38 1.40 1.42





#8

Diethyl Ether

Concen: 3.577 ug/l

RT: 1.70 min Scan# 118

Delta R.T. -0.01 min

Lab File: VF062390.D

Acq: 8 May 2019 21:16

Instrument :

MSVOA_F

ClientSampleId :

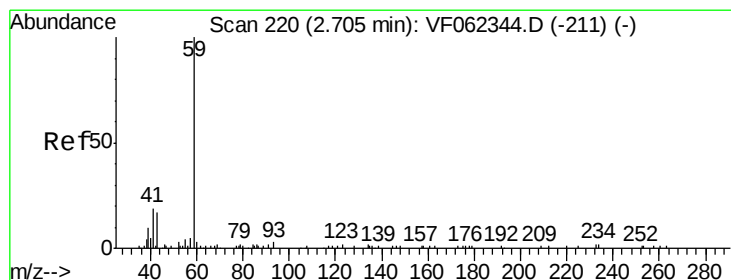
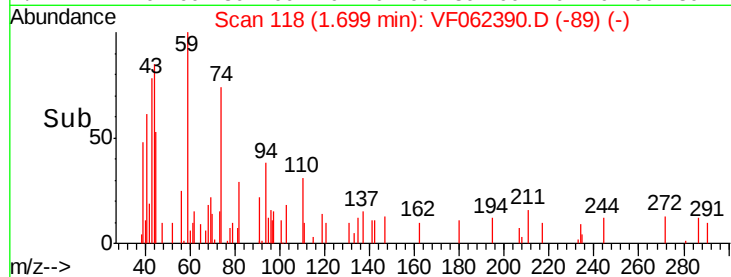
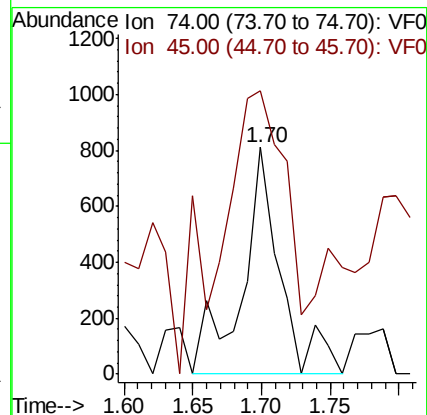
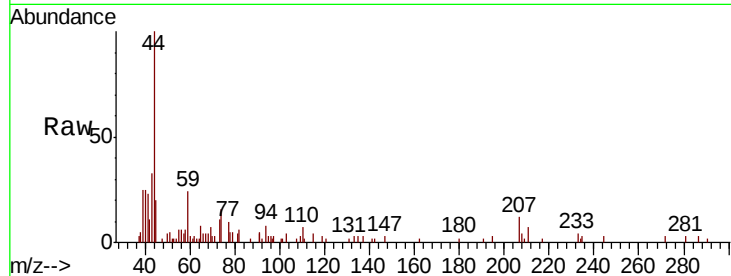
SB-03-1.0-1.5RE

Tot Ion: 74 Resp: 1576

Ion Ratio Lower Upper

74 100

45 225.6 73.9 221.6#



#11

Tert butyl alcohol

Concen: 9.008 ug/l

RT: 2.71 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF062390.D

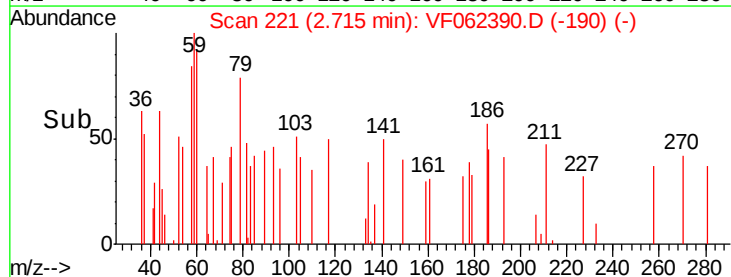
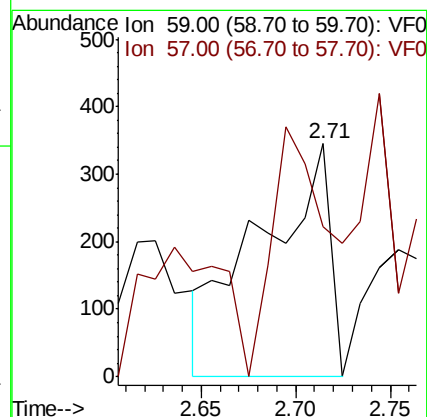
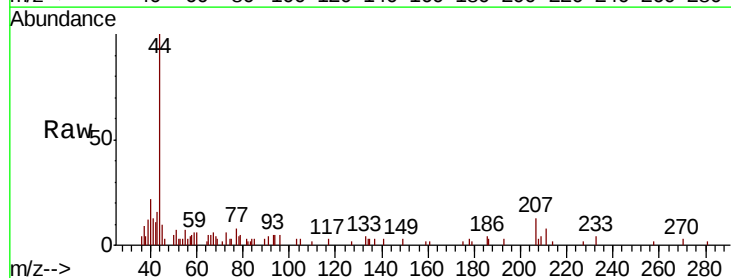
Acq: 8 May 2019 21:16

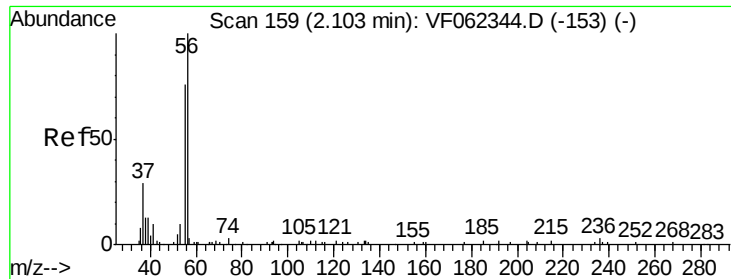
Tgt Ion: 59 Resp: 887

Ion Ratio Lower Upper

59 100

57 84.8 9.3 13.9#

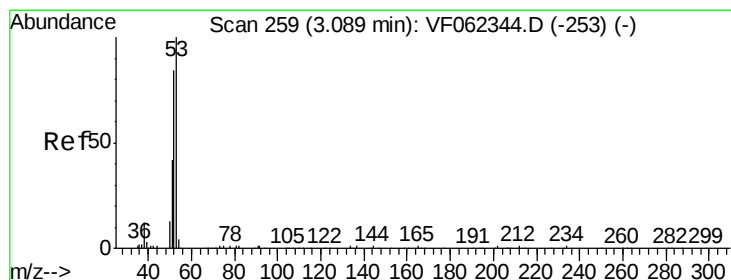
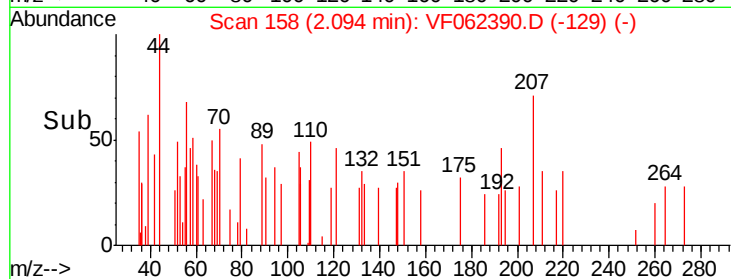
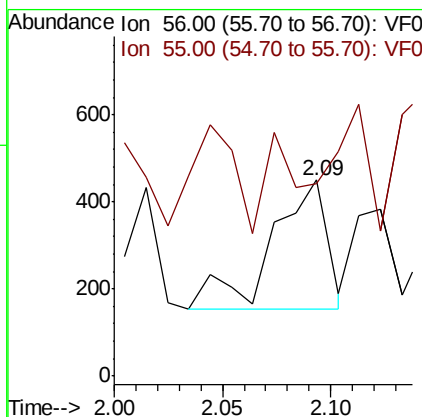
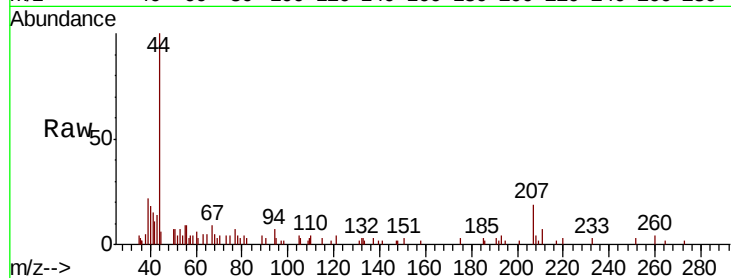




#13
Acrolein
Concen: Below Cal
RT: 2.09 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

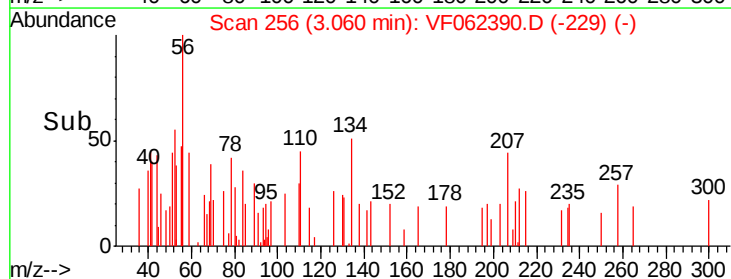
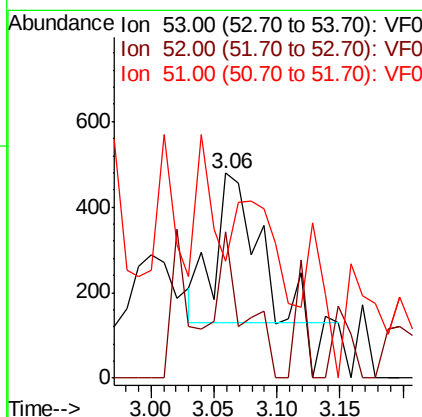
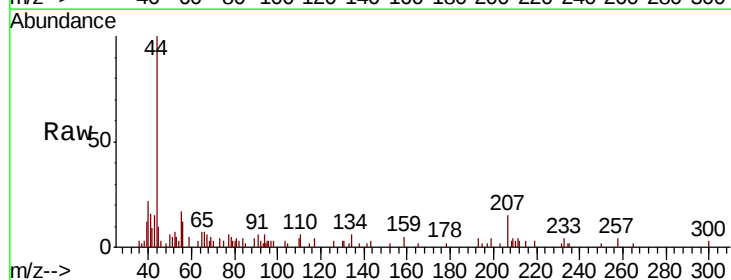
Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

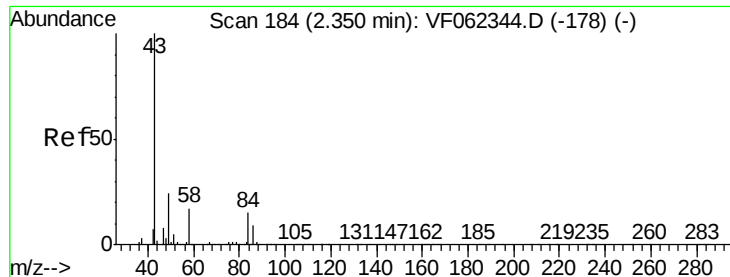
Tot Ion: 56 Resp: 531
Ion Ratio Lower Upper
56 100
55 57.6 58.4 87.6#



#15
Acrylonitrile
Concen: 4.064 ug/l
RT: 3.06 min Scan# 256
Delta R.T. -0.03 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Tgt Ion: 53 Resp: 758
Ion Ratio Lower Upper
53 100
52 70.1 77.2 115.8#
51 146.3 40.6 61.0#





#16

Acetone

Concen: 14.235 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.02 min

Lab File: VF062390.D

Acq: 8 May 2019 21:16

Instrument :

MSVOA_F

ClientSampleId :

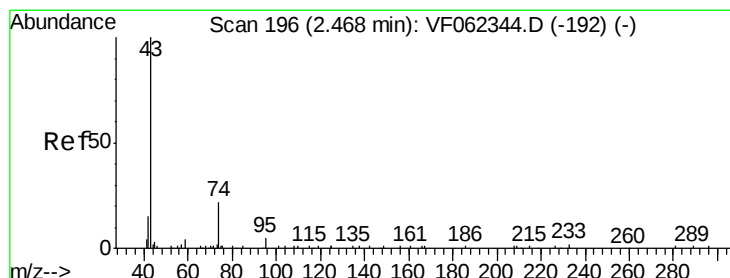
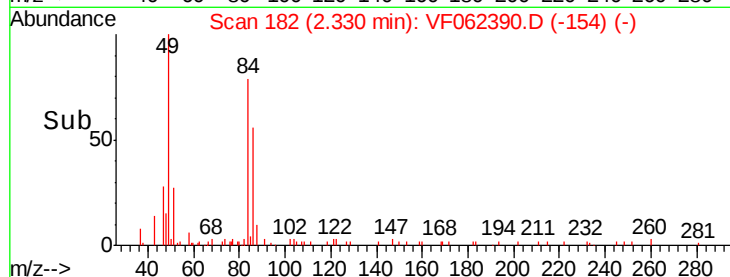
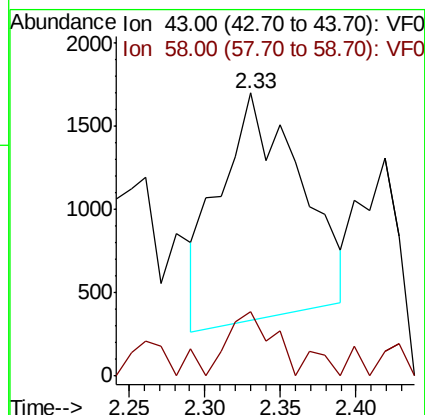
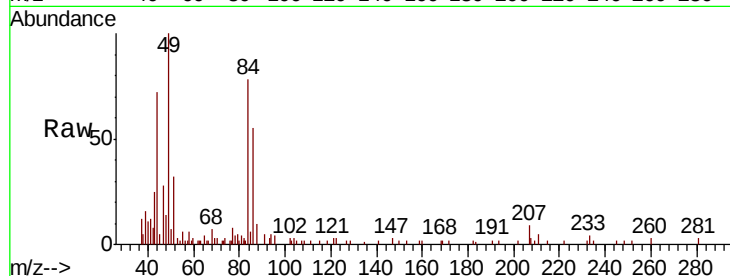
SB-03-1.0-1.5RE

Tot Ion: 43 Resp: 5017

Ion Ratio Lower Upper

43 100

58 41.3 13.1 19.7#



#18

Methyl Acetate

Concen: 7.371 ug/l

RT: 2.48 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062390.D

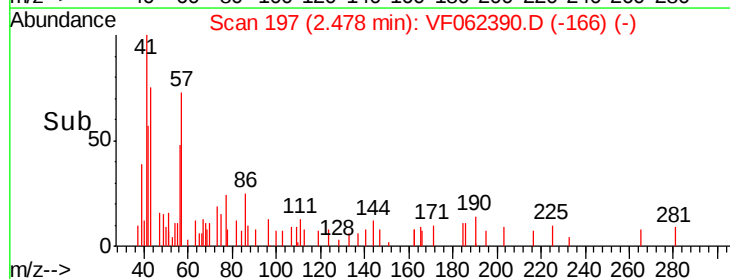
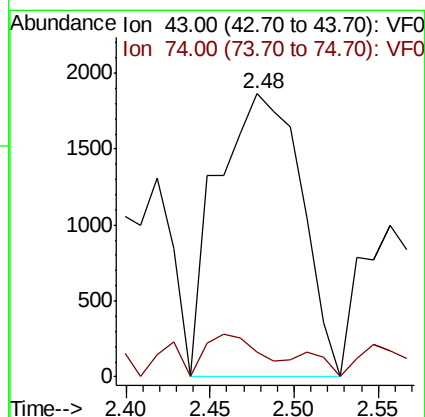
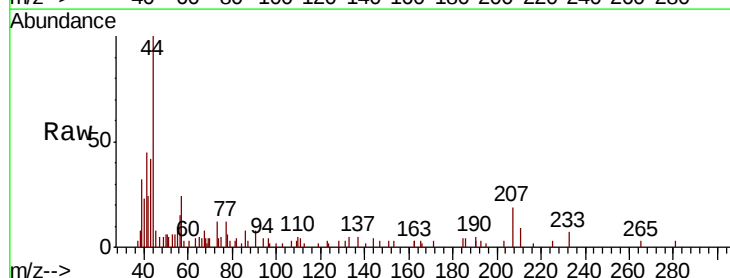
Acq: 8 May 2019 21:16

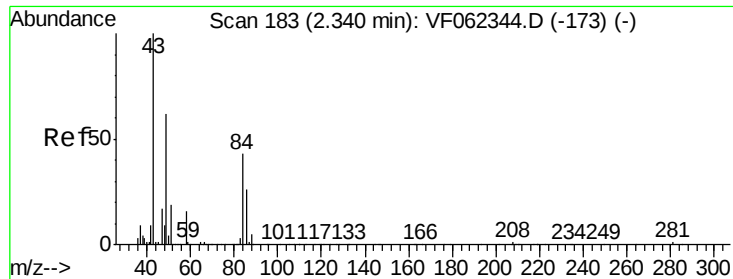
Tgt Ion: 43 Resp: 6454

Ion Ratio Lower Upper

43 100

74 9.5 15.0 22.4#

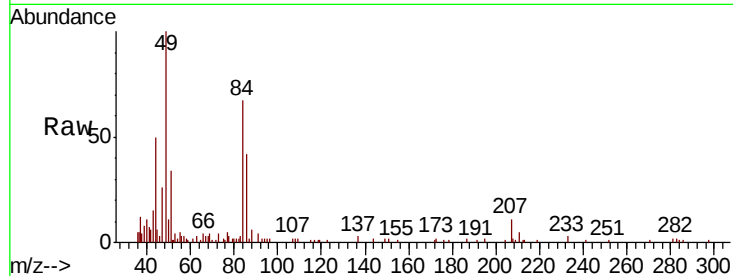




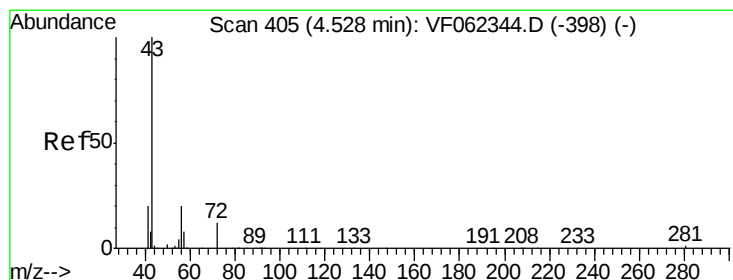
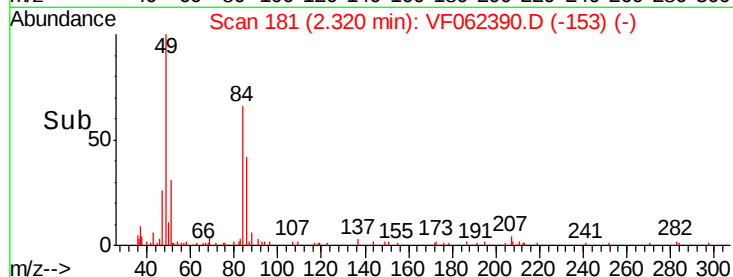
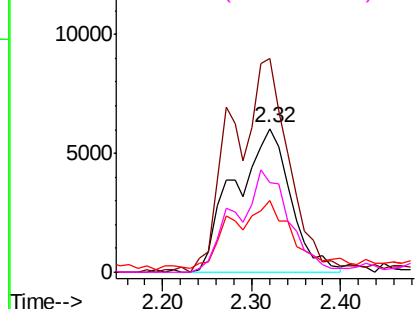
#20
Methvlene Chloride
Concen: 20.647 ug/l
RT: 2.32 min Scan# 181
Delta R.T. -0.02 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

Tot Ion:	84	Resp:	26327
Ion	Ratio	Lower	Upper
84	100		
49	148.3	117.5	176.3
51	47.0	37.0	55.4
86	62.2	49.3	73.9

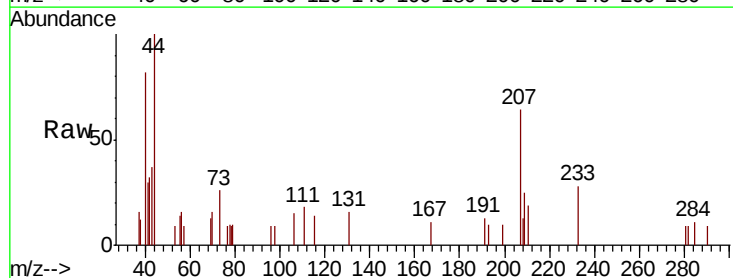


Abundance Ion 83.90 (83.60 to 84.60): VF0
Ion 48.90 (48.60 to 49.60): VF0
Ion 50.90 (50.60 to 51.60): VF0
Ion 85.90 (85.60 to 86.60): VF0

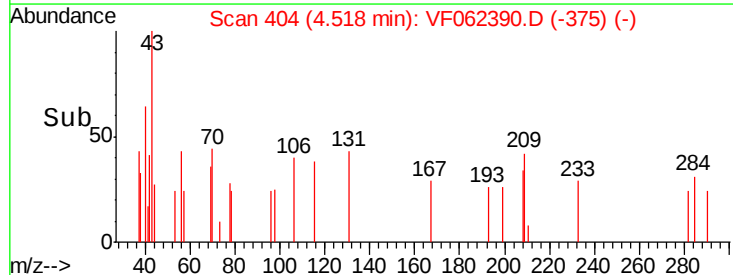
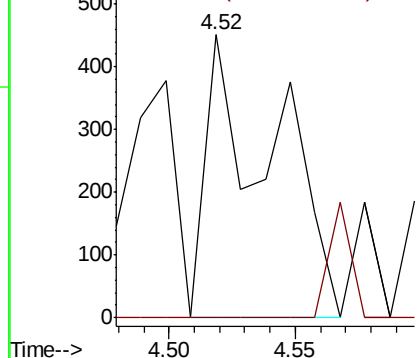


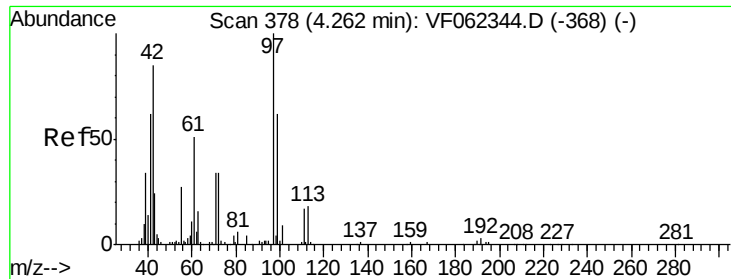
#25
2-Butanone
Concen: 1.895 ug/l
RT: 4.52 min Scan# 404
Delta R.T. -0.01 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Tgt Ion:	43	Resp:	839
Ion	Ratio	Lower	Upper
43	100		
72	0.0	14.2	21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.346 ug/l

RT: 4.23 min Scan# 375

Delta R.T. -0.03 min

Lab File: VF062390.D

Acq: 8 May 2019 21:16

Instrument :

MSVOA_F

ClientSampleId :

SB-03-1.0-1.5RE

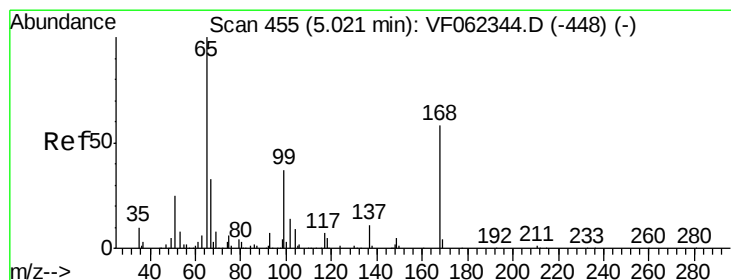
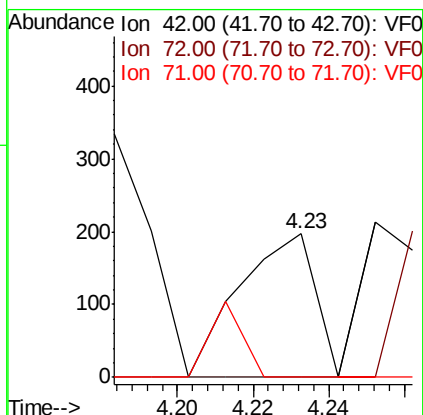
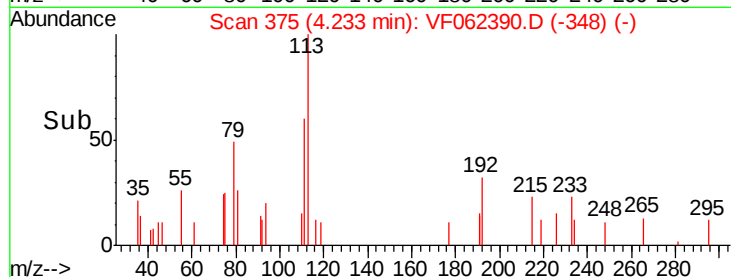
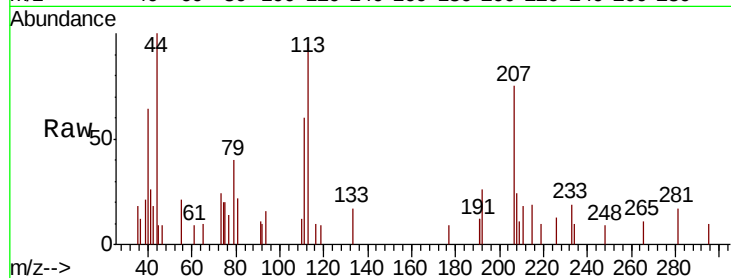
Tot Ion: 42 Resp: 274

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 22.6 31.7 47.5#



#33

1,2-Dichloroethane-d4

Concen: 49.759 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.01 min

Lab File: VF062390.D

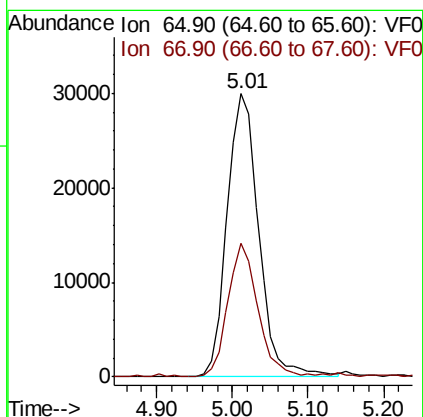
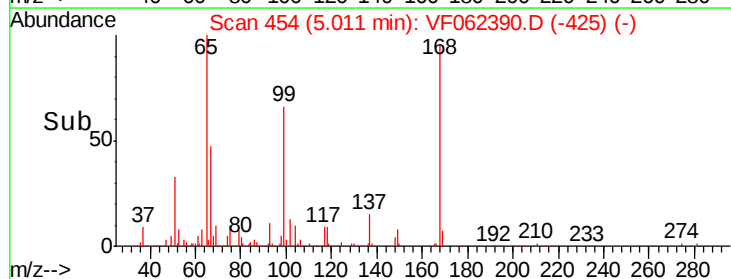
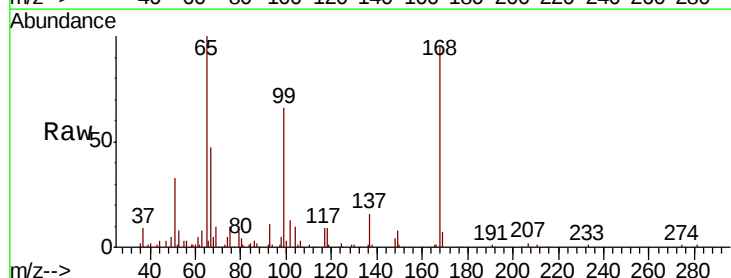
Acq: 8 May 2019 21:16

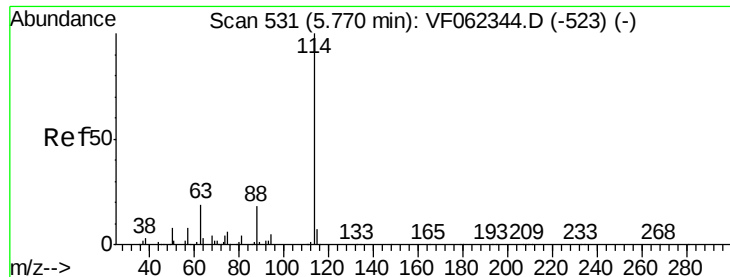
Tgt Ion: 65 Resp: 86691

Ion Ratio Lower Upper

65 100

67 44.9 0.0 85.8

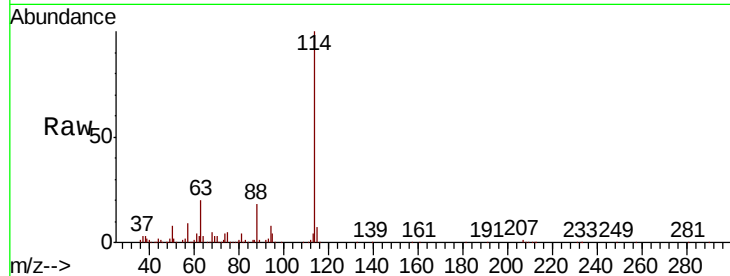




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.76 min Scan# 530
Delta R.T. -0.01 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

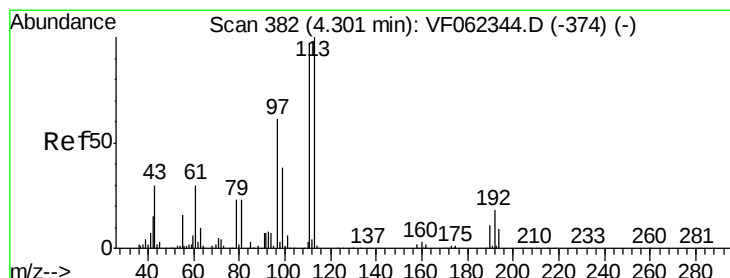
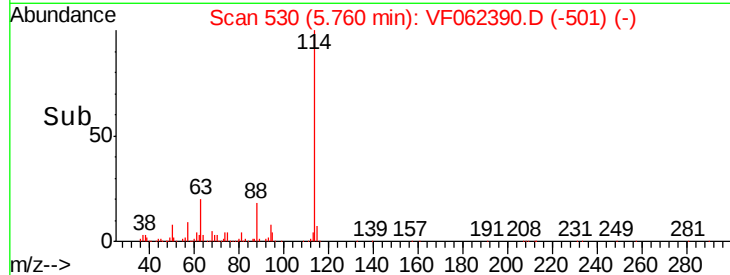
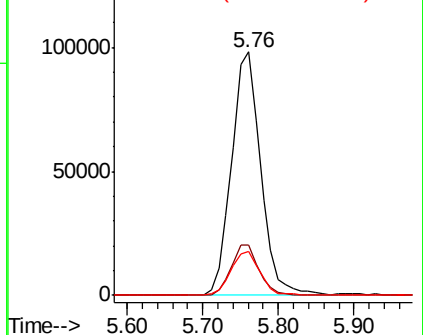
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	37.4
88	18.0	0.0	36.4



Abundance Ion 113.90 (113.60 to 114.60): V

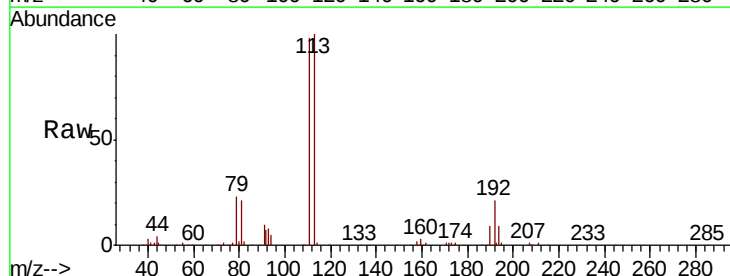
Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35
Dibromofluoromethane
Concen: 52.494 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.02 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

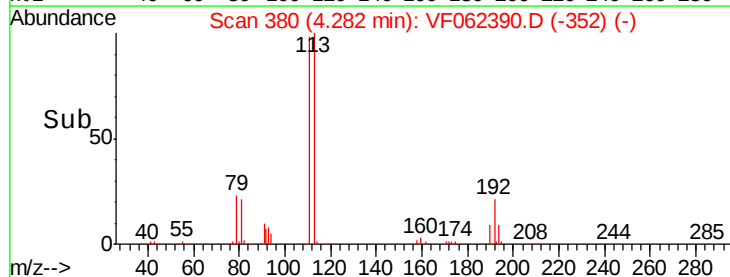
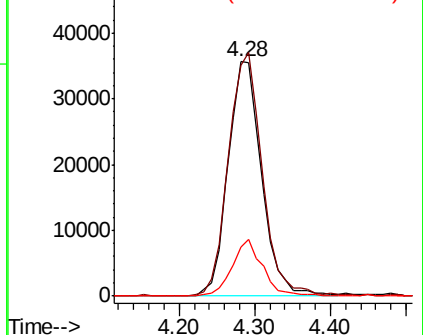
Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.9	79.4	119.0
192	22.0	16.0	24.0

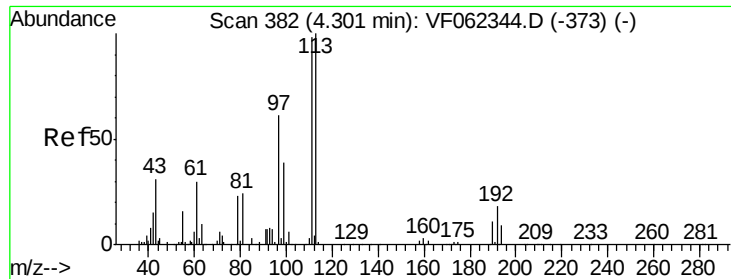


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

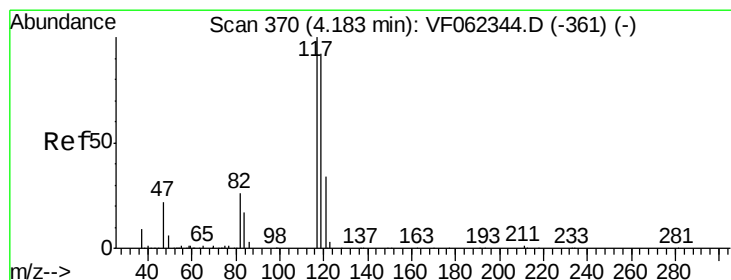
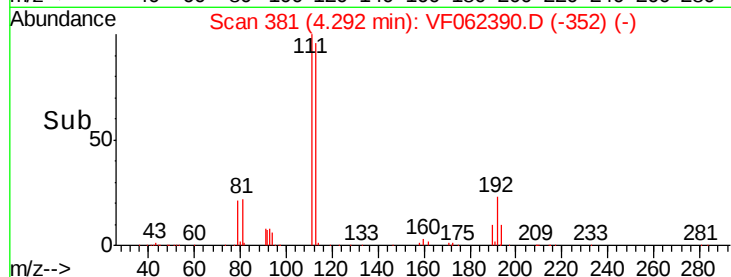
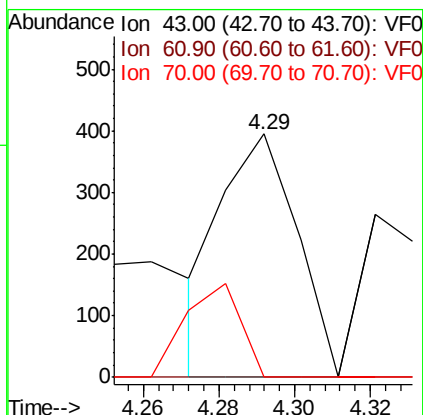
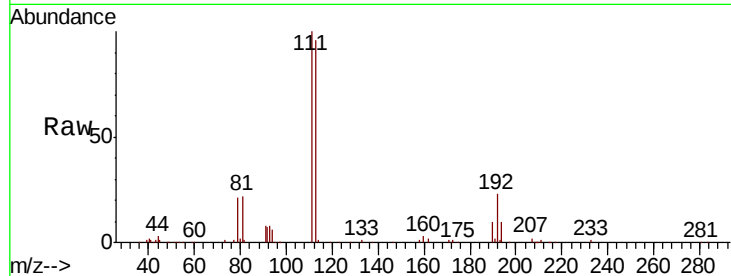




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

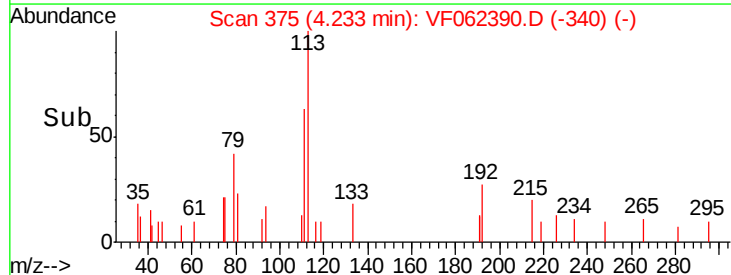
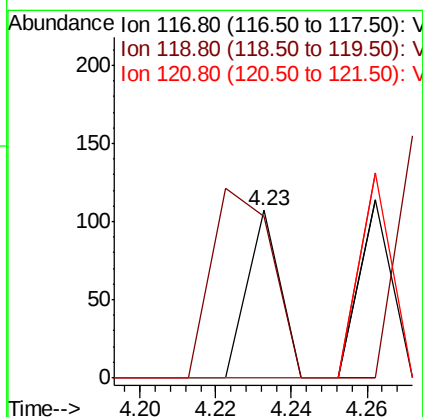
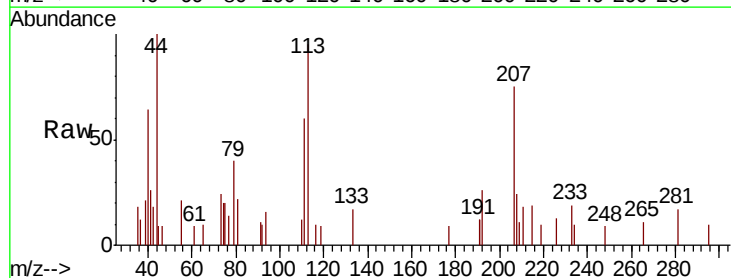
Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

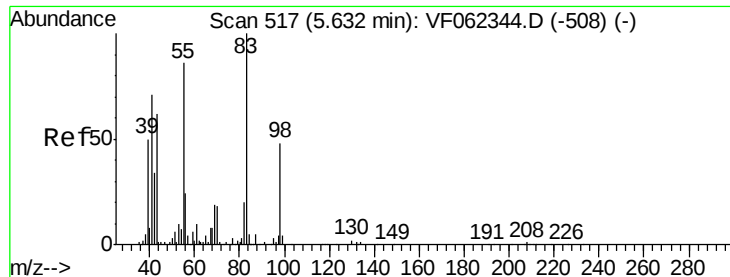
Tot Ion: 43 Resp: 545
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 28.3 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.23 min Scan# 375
Delta R.T. 0.05 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Tgt Ion: 117 Resp: 63
Ion Ratio Lower Upper
117 100
119 96.3 73.4 110.2
121 0.0 27.4 41.0#

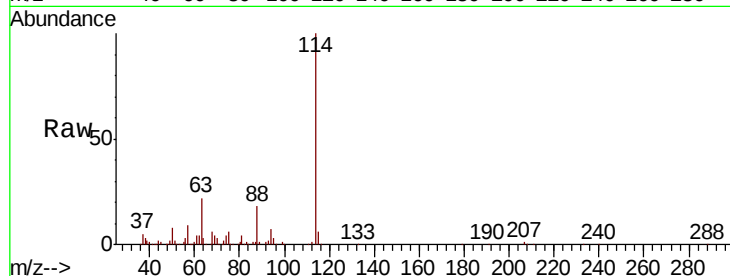




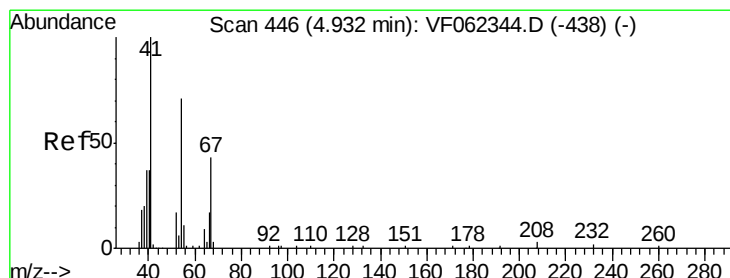
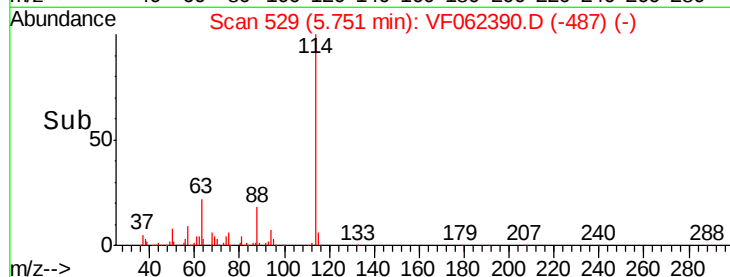
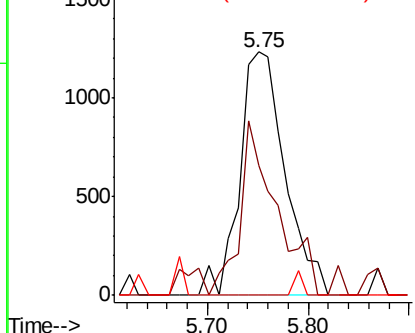
#39
Methylcyclohexane
Concen: 1.706 ug/l
RT: 5.75 min Scan# 529
Delta R.T. 0.12 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

Tot Ion: 83 Resp: 3852
Ion Ratio Lower Upper
83 100
55 45.1 69.0 103.6#
98 0.0 38.6 58.0#

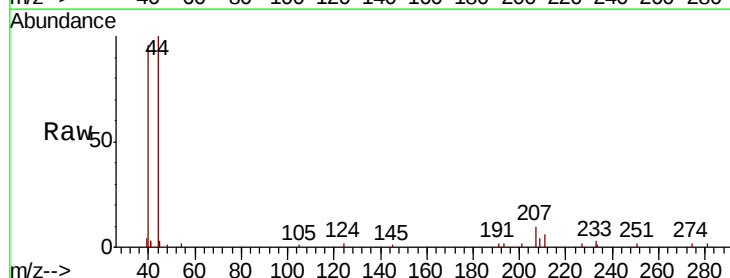


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

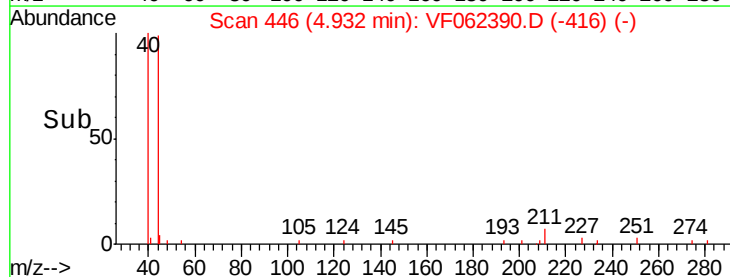
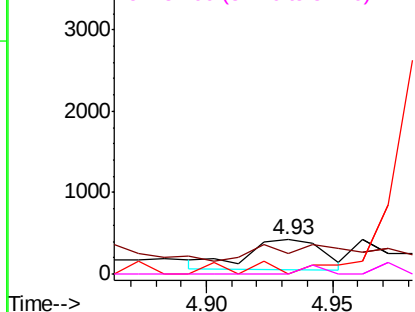


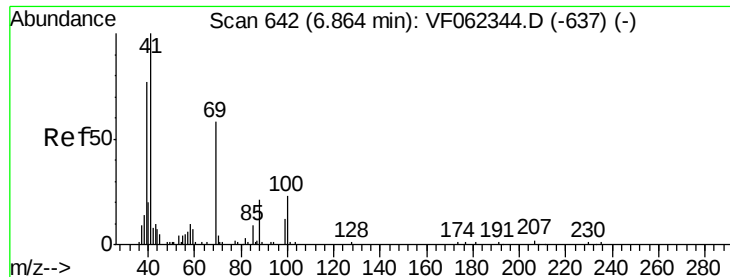
#41
Methacrylonitrile
Concen: 1.411 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.00 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Tgt Ion: 41 Resp: 762
Ion Ratio Lower Upper
41 100
39 89.9 54.3 81.5#
67 0.0 37.8 56.8#
52 8.3 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

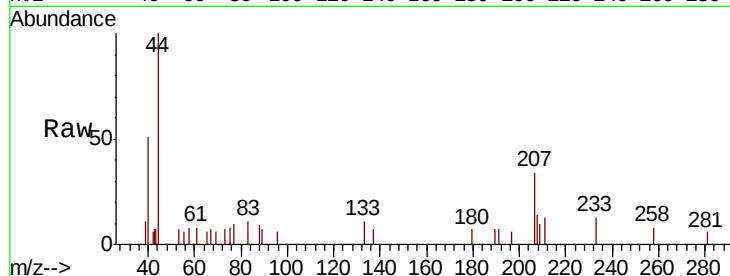




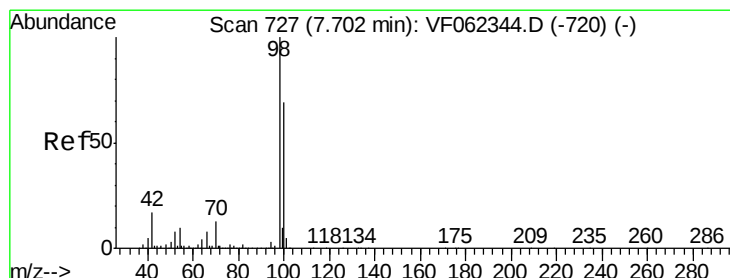
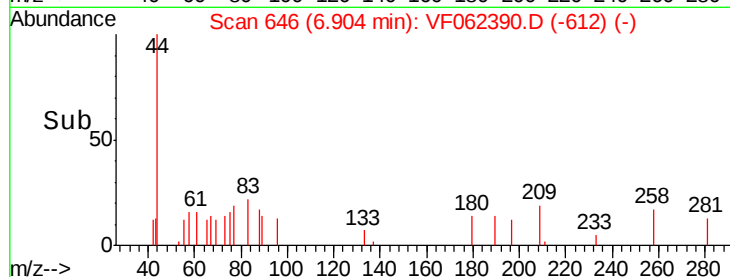
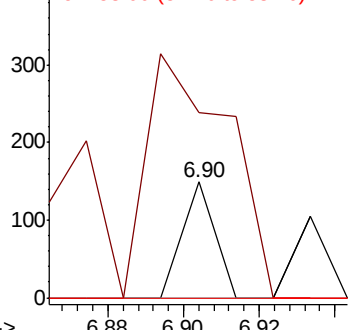
#49
1,4-Dioxane
Concen: Below Cal
RT: 6.90 min Scan# 646
Delta R.T. 0.04 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

Tot Ion: 88 Resp: 88
Ion Ratio Lower Upper
88 100
43 195.5 55.6 83.4#
58 0.0 52.8 79.2#

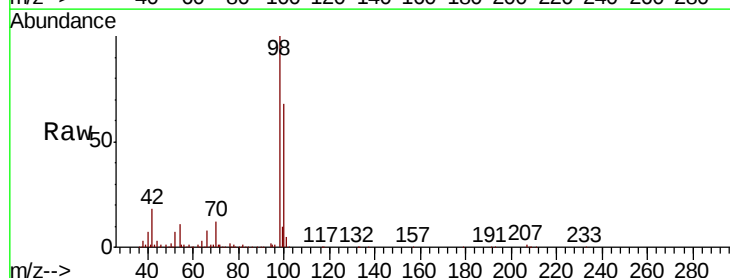


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

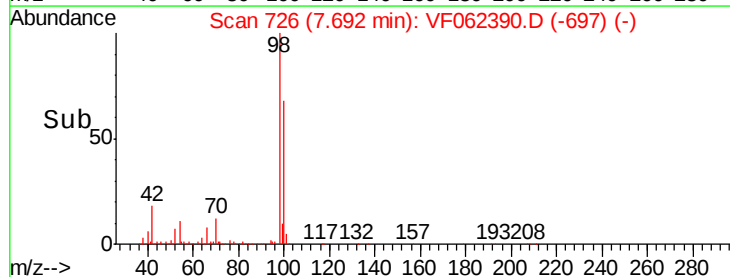
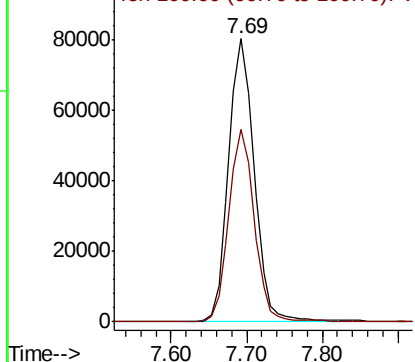


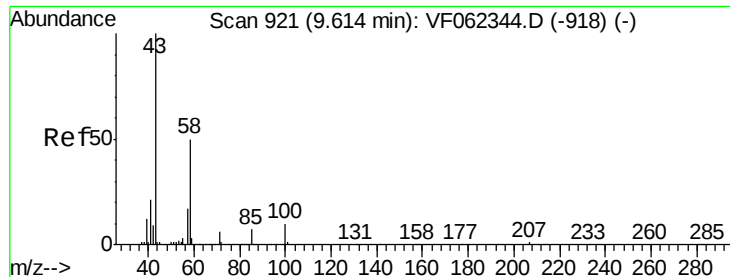
#50
Toluene-d8
Concen: 37.350 ug/l
RT: 7.69 min Scan# 726
Delta R.T. -0.01 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Tgt Ion: 98 Resp: 188812
Ion Ratio Lower Upper
98 100
100 67.8 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

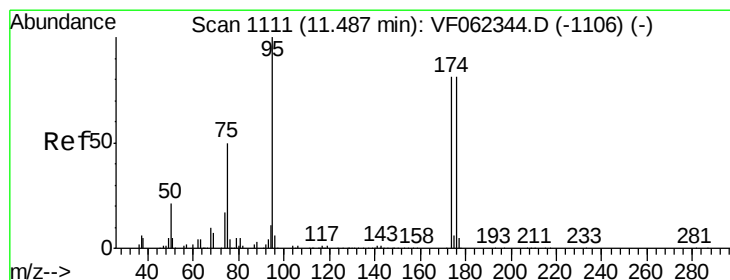
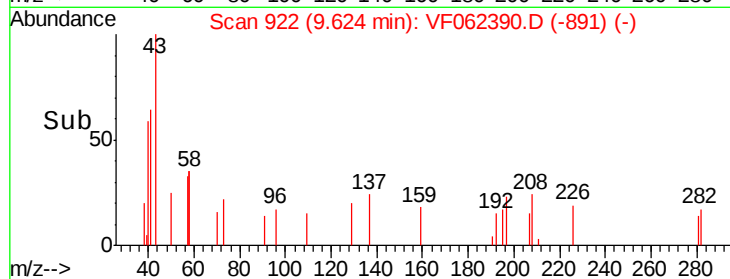
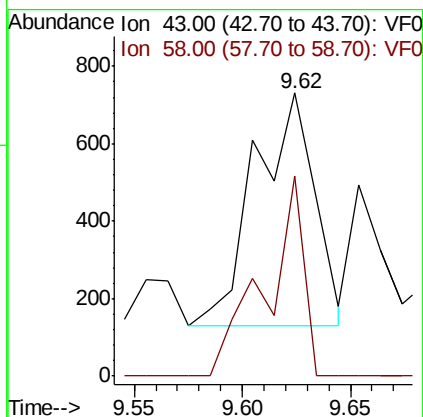
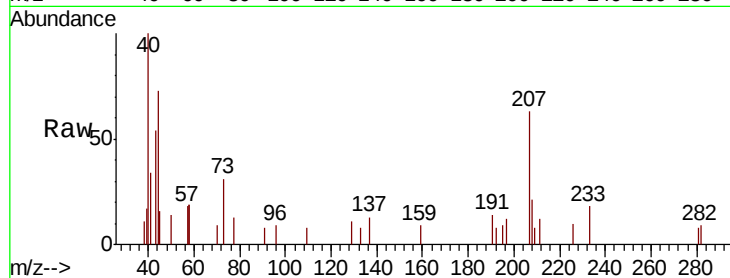




#59
2-Hexanone
Concen: 2.165 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

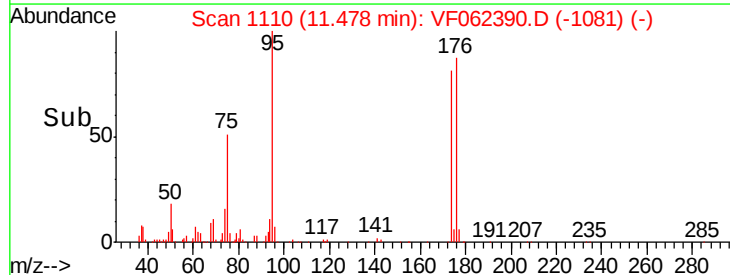
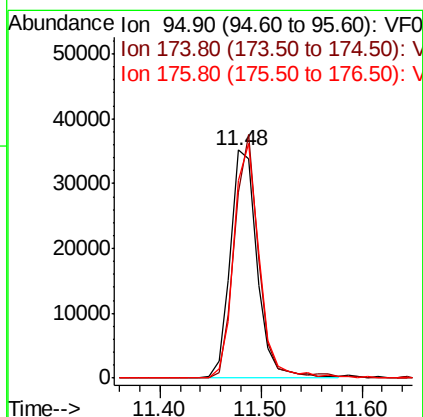
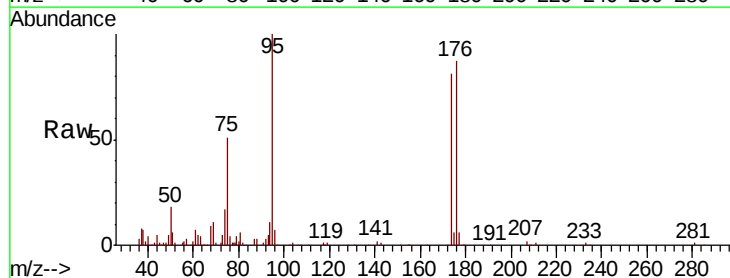
Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

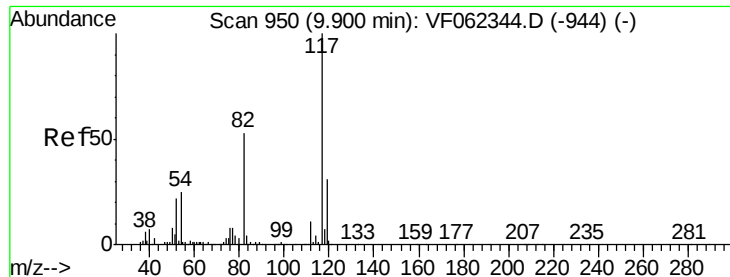
Tot Ion: 43 Resp: 1162
Ion Ratio Lower Upper
43 100
58 54.5 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 28.651 ug/l
RT: 11.48 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Tgt Ion: 95 Resp: 65346
Ion Ratio Lower Upper
95 100
174 96.0 0.0 191.8
176 97.8 0.0 193.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.89 min Scan# 949

Delta R.T. -0.01 min

Lab File: VF062390.D

Acq: 8 May 2019 21:16

Instrument :

MSVOA_F

ClientSampleId :

SB-03-1.0-1.5RE

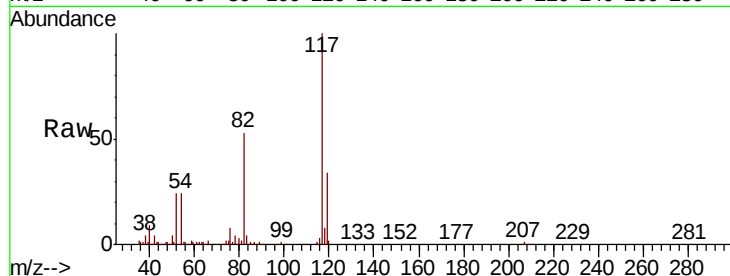
Tot Ion:117 Resp: 172456

Ion Ratio Lower Upper

117 100

82 53.2 42.2 63.2

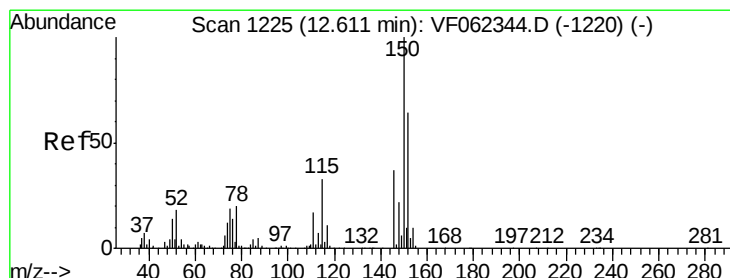
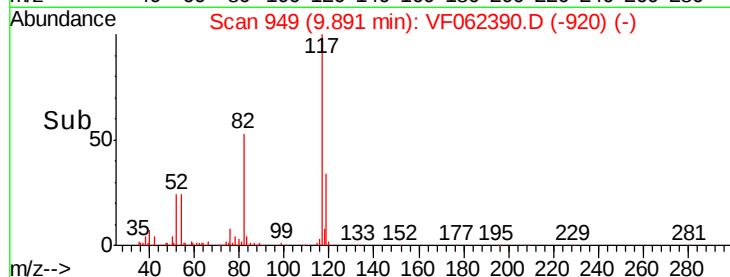
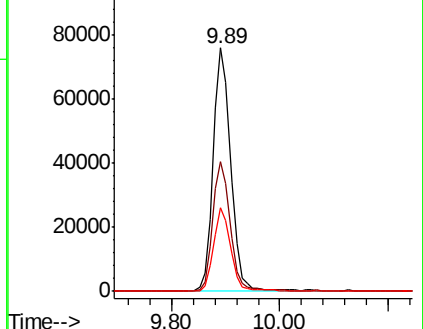
119 34.1 25.0 37.4



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: 12.60 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VF062390.D

Acq: 8 May 2019 21:16

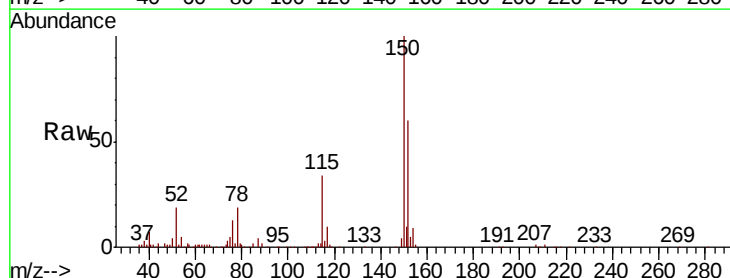
Tgt Ion:152 Resp: 63312

Ion Ratio Lower Upper

152 100

115 59.9 26.4 79.2

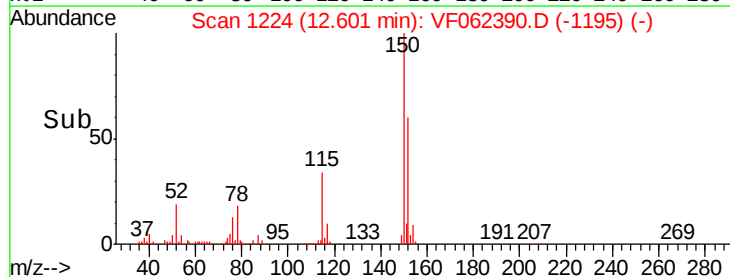
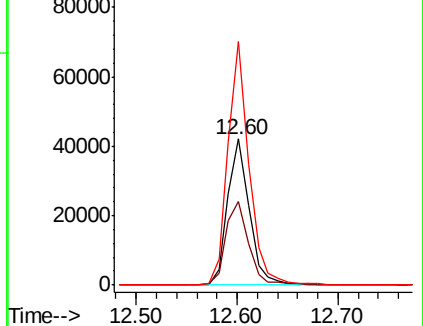
150 161.7 0.0 335.0

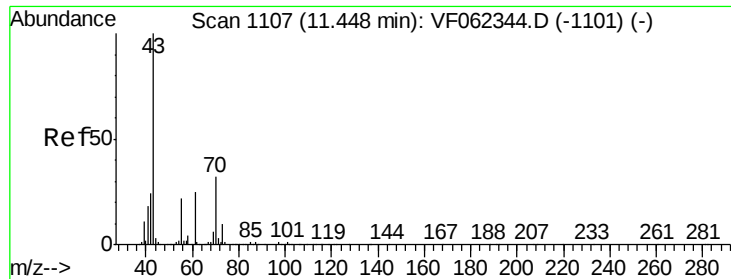


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74
N-amvl acetate
Concen: 1.267 ug/l
RT: 11.45 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VF062390.D
Acq: 8 May 2019 21:16

Instrument :
MSVOA_F
ClientSampleId :
SB-03-1.0-1.5RE

Tot Ion: 43 Resp: 1021
Ion Ratio Lower Upper
43 100
70 0.0 26.5 39.7#
55 17.4 17.8 26.6#
61 0.0 20.2 30.2#

