

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF032119\
 Data File : VF062058.D
 Acq On : 21 Mar 2019 14:02
 Operator : VA/AP
 Sample : K1688-39
 Misc : 5.47g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-031919-J

Quant Time: Mar 22 08:07:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F031619S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 03:22:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	278150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	386654	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	232916	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	135312	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	99566	49.73	ug/l	0.01
Spiked Amount			Recovery	=	99.46%	
35) Dibromofluoromethane	4.12	113	145946	56.21	ug/l	0.01
Spiked Amount			Recovery	=	112.42%	
50) Toluene-d8	7.55	98	144221	19.00	ug/l	0.00
Spiked Amount			Recovery	=	38.00%	
62) 4-Bromofluorobenzene	11.41	95	121152	40.18	ug/l	0.00
Spiked Amount			Recovery	=	80.36%	

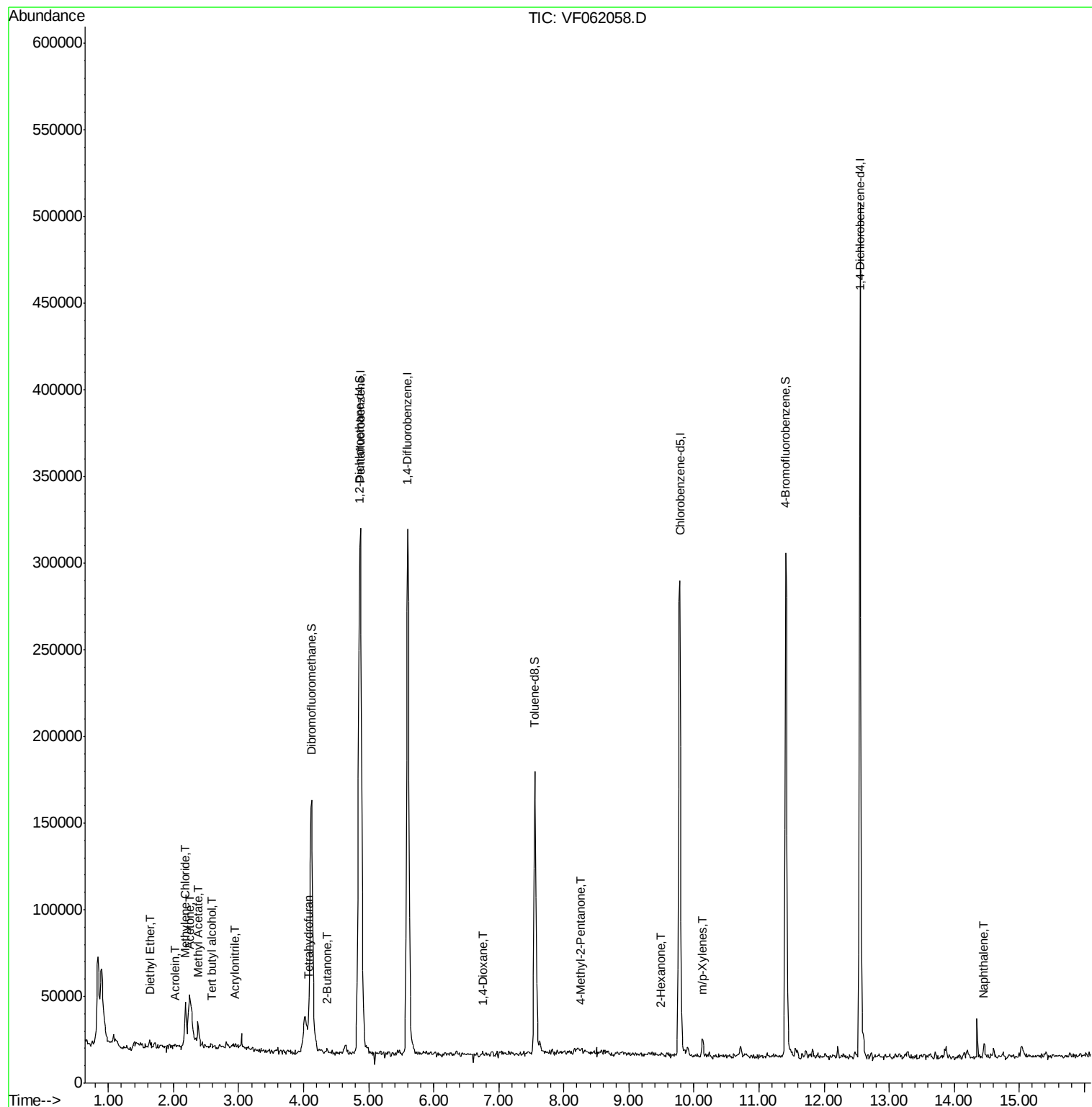
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.64	74	1313	1.530	ug/l	85
11) Tert butyl alcohol	2.59	59	895	7.305	ug/l #	71
13) Acrolein	2.01	56	1102	8.332	ug/l	92
15) Acrylonitrile	2.95	53	406	1.090	ug/l #	29
16) Acetone	2.24	43	17612	39.172	ug/l	96
18) Methyl Acetate	2.38	43	4779	4.690	ug/l #	53
20) Methylene Chloride	2.18	84	11373	4.848	ug/l	91
25) 2-Butanone	4.36	43	1420	1.595	ug/l #	51
29) Tetrahydrofuran	4.06	42	689	1.779	ug/l #	33
49) 1,4-Dioxane	6.75	88	73	6.846	ug/l #	15
51) 4-Methyl-2-Pentanone	8.26	43	1507	1.144	ug/l #	71
59) 2-Hexanone	9.50	43	2362	2.478	ug/l	95
68) m/p-Xylenes	10.14	106	4048	1.450	ug/l	86
95) Naphthalene	14.46	128	6242	1.265	ug/l	99

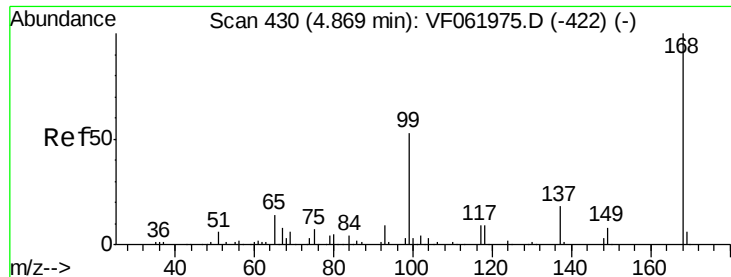
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

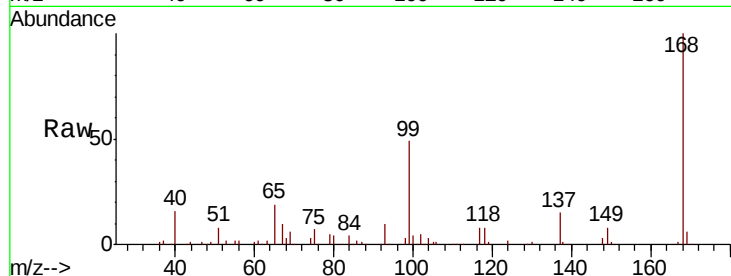
Instrument :
MSVOA_F
ClientSampleId :
JC-02-031919-J

Tgt Ion:168 Resp: 278150

Ion Ratio Lower Upper

168 100

99 48.5 42.4 63.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

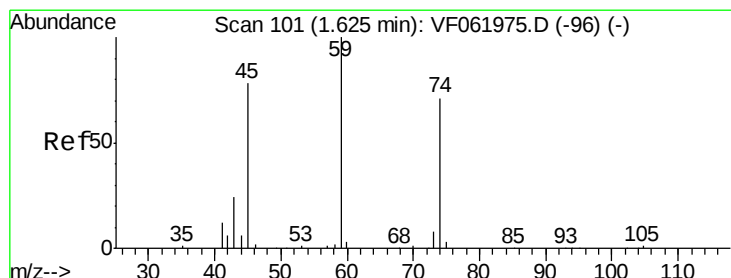
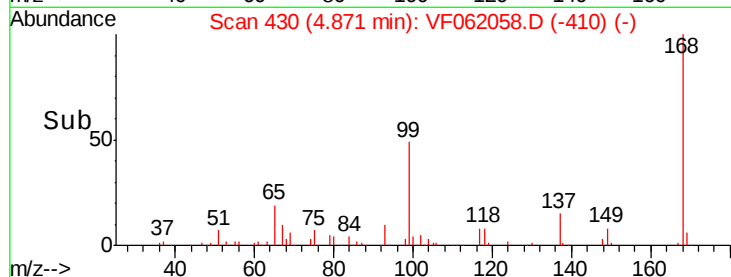
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.530 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.01 min

Lab File: VF062058.D

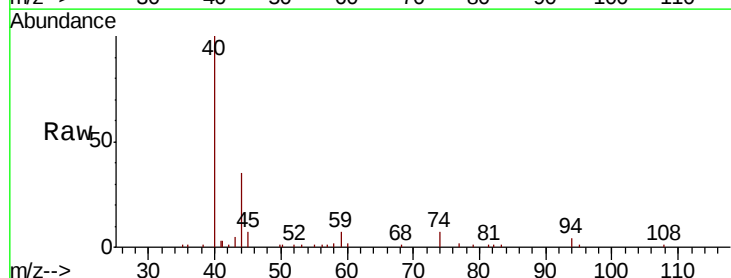
Acq: 21 Mar 2019 14:02

Tgt Ion: 74 Resp: 1313

Ion Ratio Lower Upper

74 100

45 96.1 56.3 168.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.64

1000

800

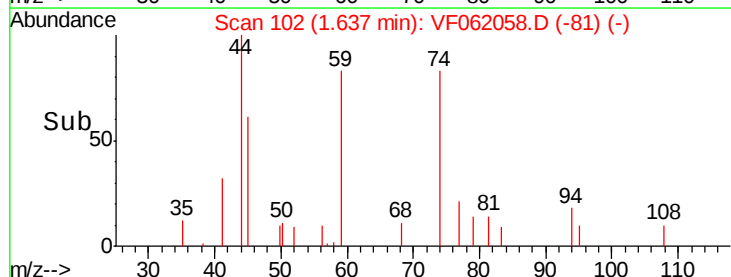
600

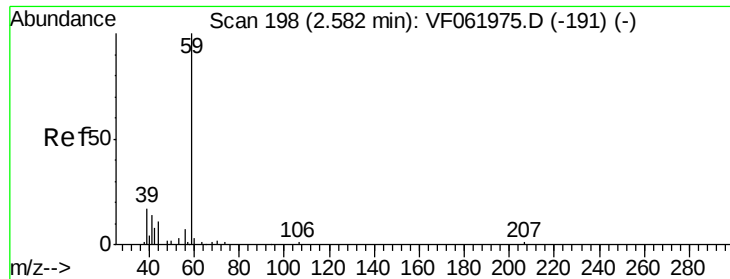
400

200

0

Time--> 1.60 1.65 1.70

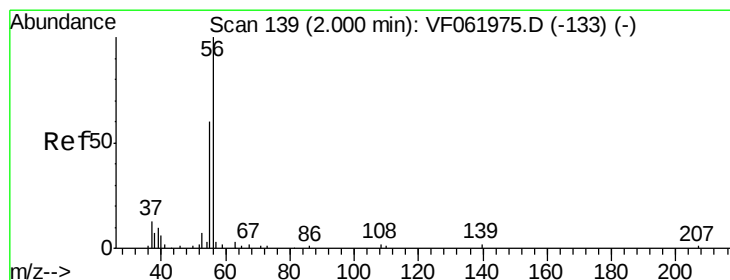
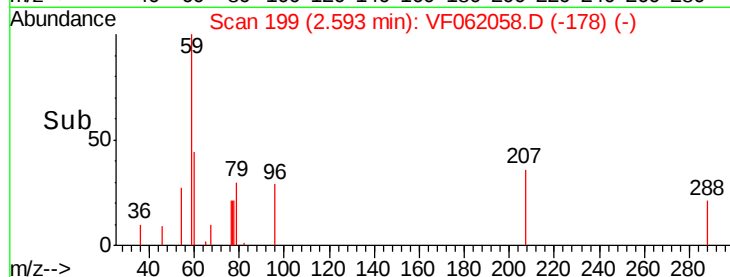
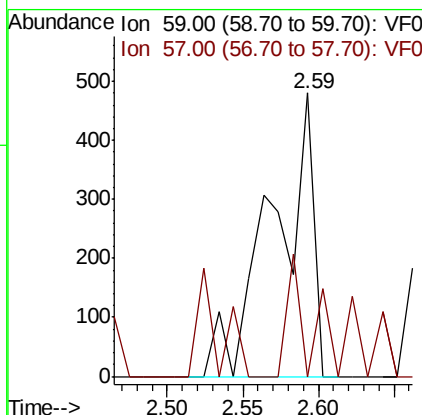
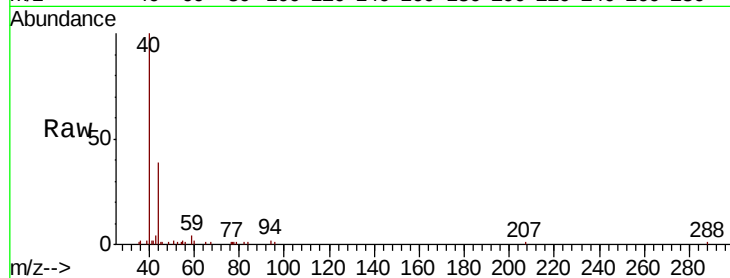




#11
Tert butyl alcohol
Concen: 7.305 ug/l
RT: 2.59 min Scan# 199
Delta R.T. 0.01 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

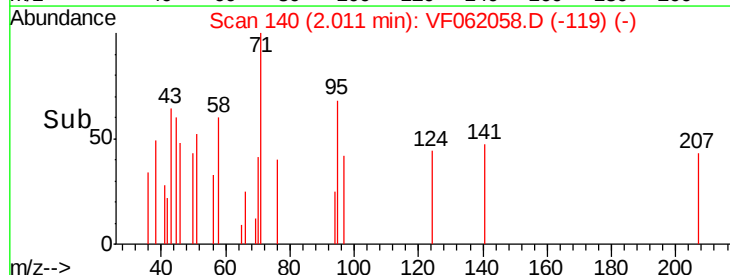
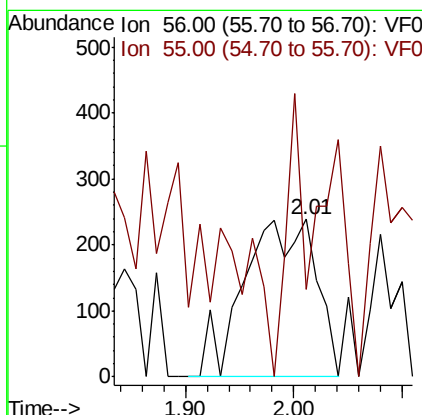
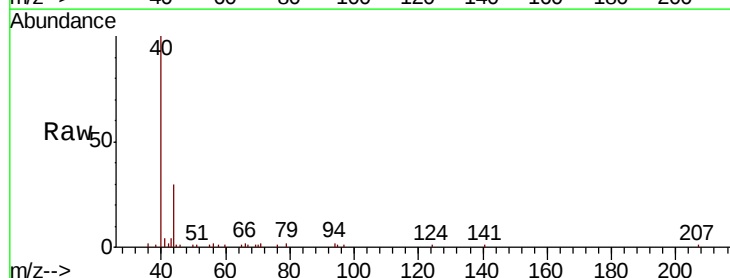
Instrument :
MSVOA_F
ClientSampleId :
JC-02-031919-J

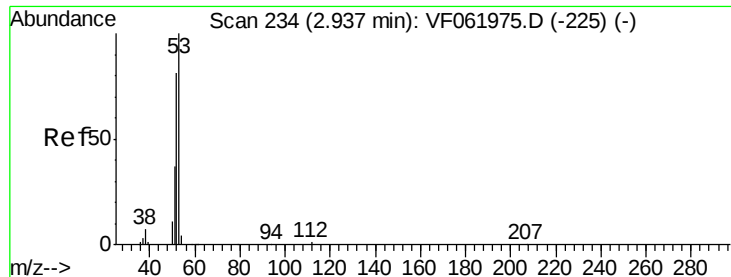
Tgt Ion: 59 Resp: 895
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 8.332 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.01 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

Tgt Ion: 56 Resp: 1102
Ion Ratio Lower Upper
56 100
55 55.2 49.1 73.7





#15

Acrylonitrile

Concen: 1.090 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

JC-02-031919-J

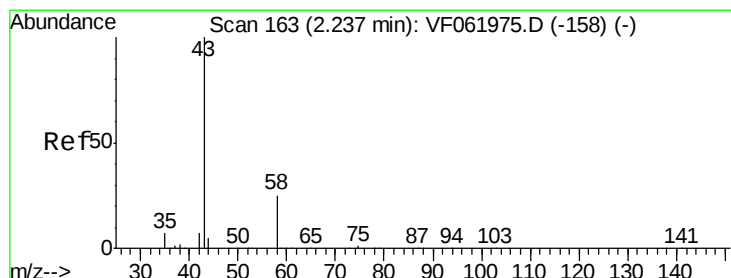
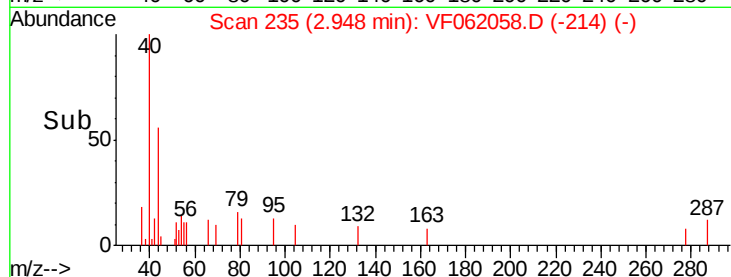
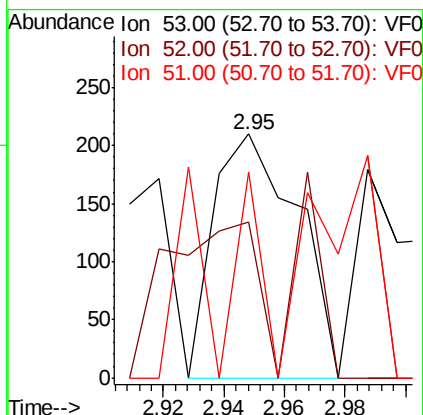
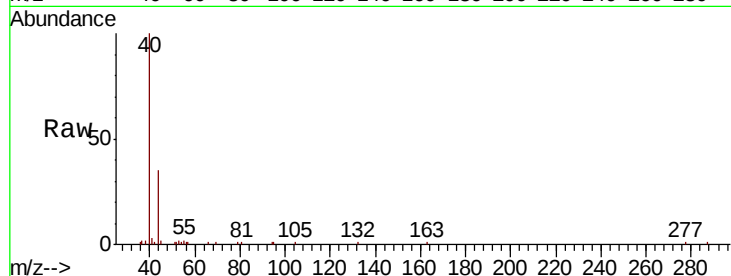
Tgt Ion: 53 Resp: 406

Ion Ratio Lower Upper

53 100

52 63.8 64.4 96.6#

51 148.1 30.3 45.5#



#16

Acetone

Concen: 39.172 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF062058.D

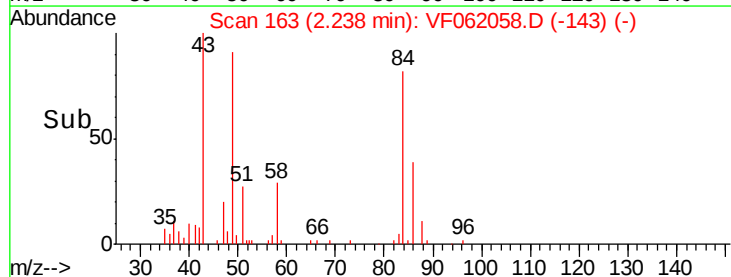
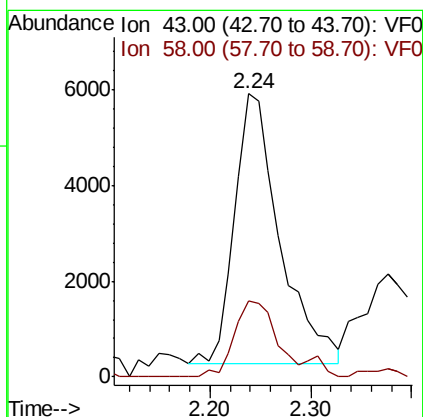
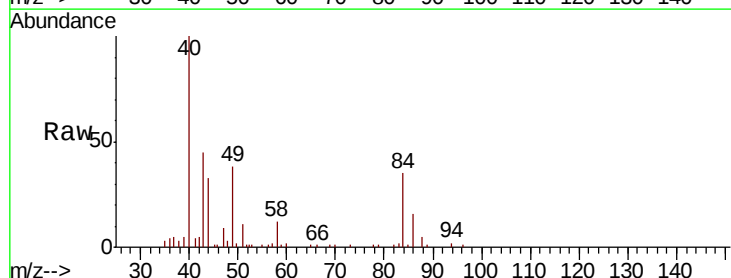
Acq: 21 Mar 2019 14:02

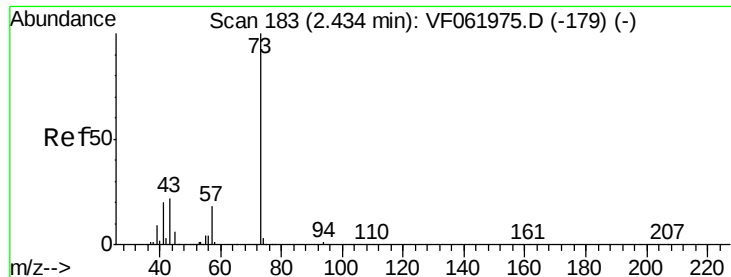
Tgt Ion: 43 Resp: 17612

Ion Ratio Lower Upper

43 100

58 26.9 19.9 29.9

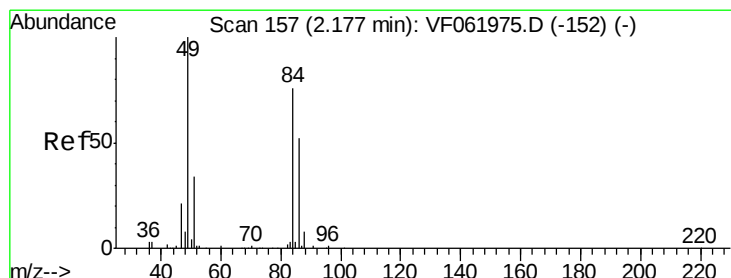
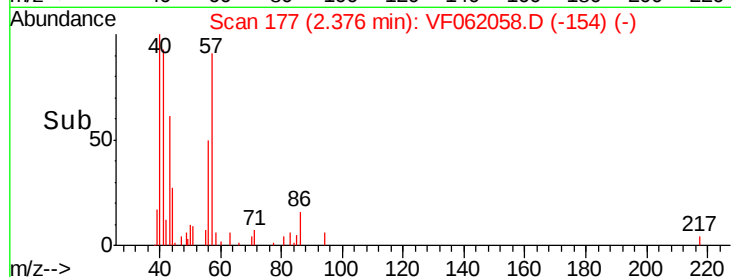
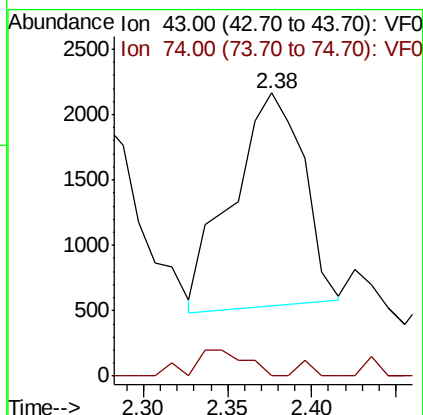
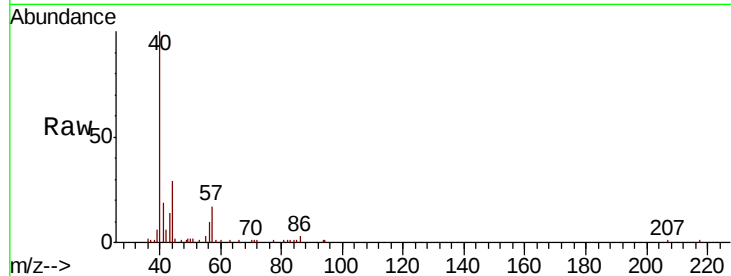




#18
Methyl Acetate
Concen: 4.690 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

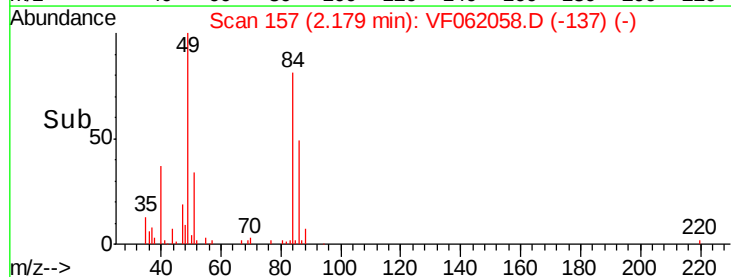
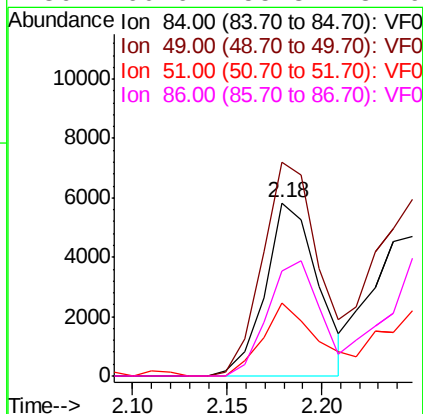
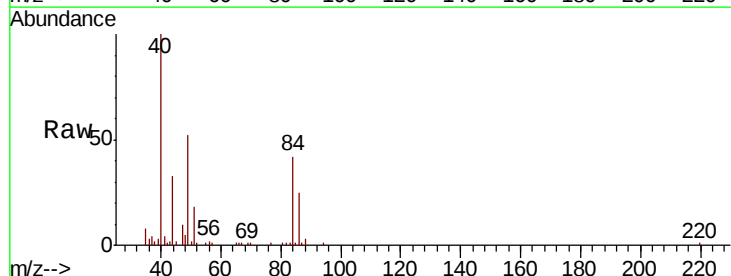
Instrument :
MSVOA_F
ClientSampleId :
JC-02-031919-J

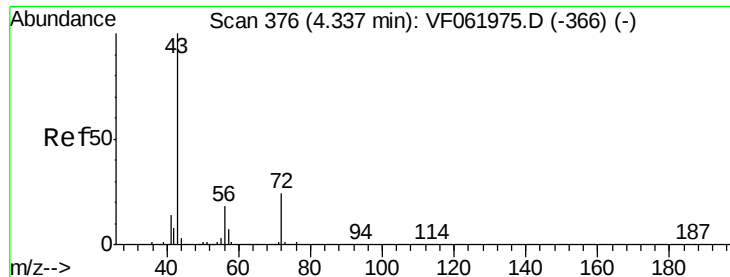
Tgt Ion: 43 Resp: 4779
Ion Ratio Lower Upper
43 100
74 0.0 18.3 27.5#



#20
Methylene Chloride
Concen: 4.848 ug/l
RT: 2.18 min Scan# 157
Delta R.T. 0.00 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

Tgt Ion: 84 Resp: 11373
Ion Ratio Lower Upper
84 100
49 123.3 107.0 160.6
51 42.4 37.2 55.8
86 60.6 55.3 82.9





#25

2-Butanone

Concen: 1.595 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.02 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

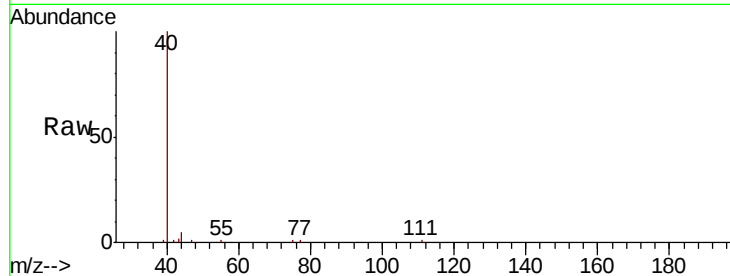
JC-02-031919-J

Tgt Ion: 43 Resp: 1420

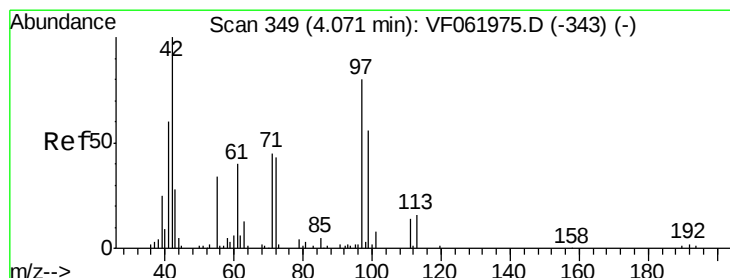
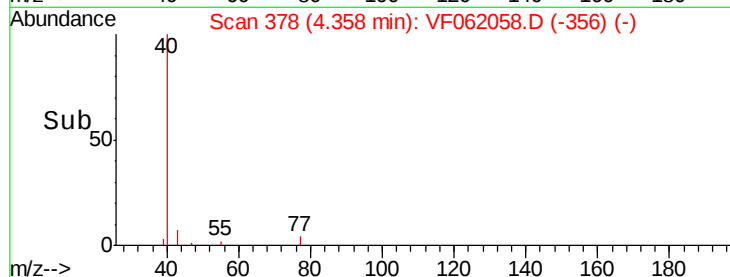
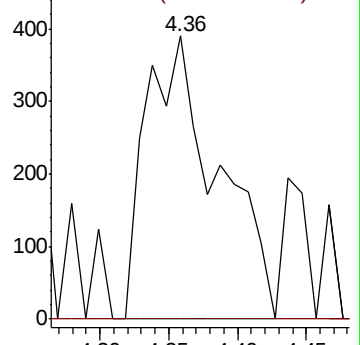
Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#29

Tetrahydrofuran

Concen: 1.779 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

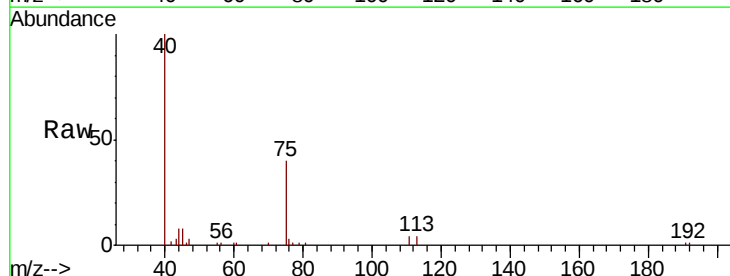
Tgt Ion: 42 Resp: 689

Ion Ratio Lower Upper

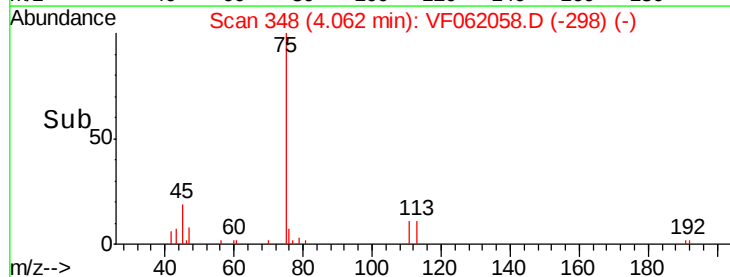
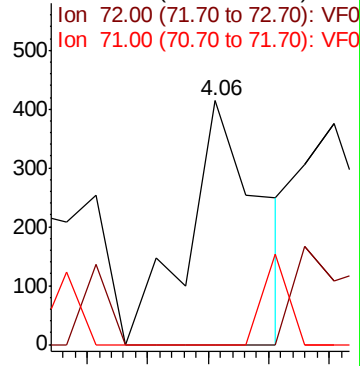
42 100

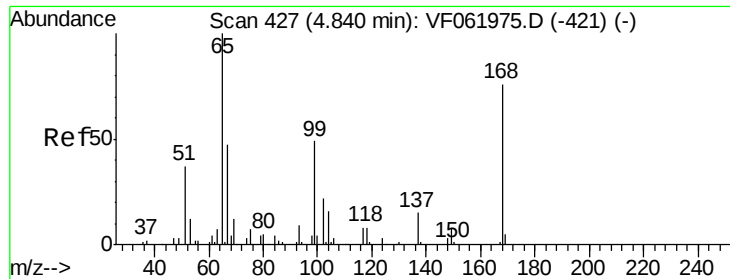
72 0.0 34.0 51.0#

71 0.0 34.2 51.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 49.727 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

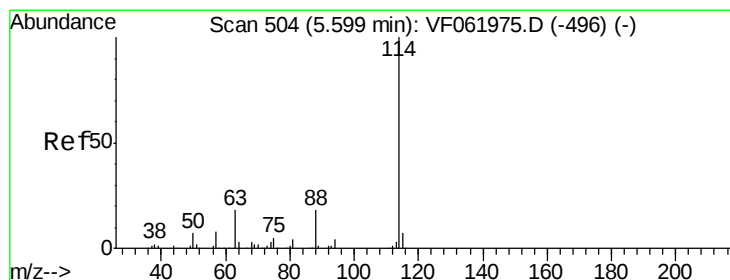
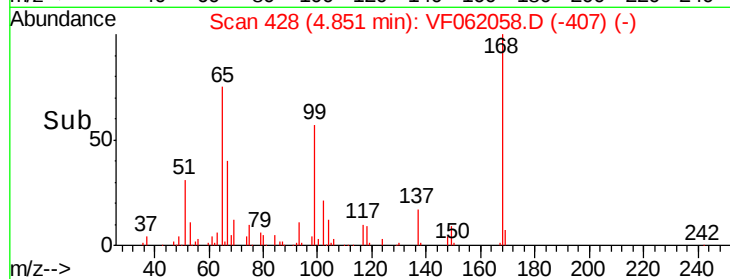
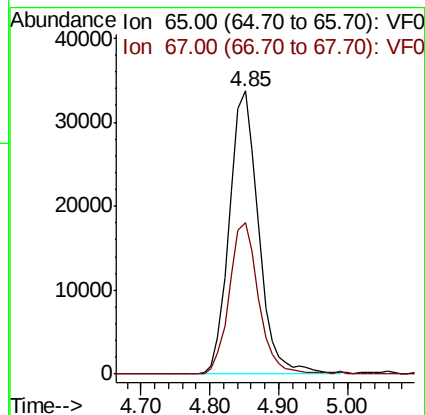
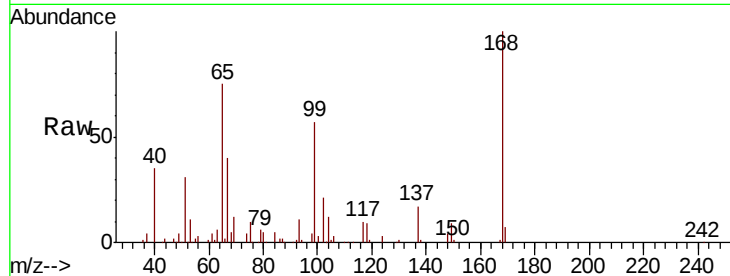
JC-02-031919-J

Tgt Ion: 65 Resp: 99566

Ion Ratio Lower Upper

65 100

67 53.5 0.0 109.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

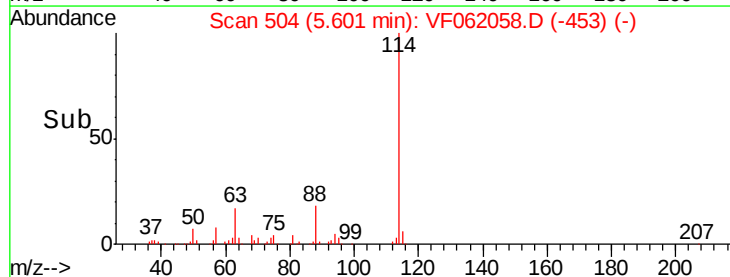
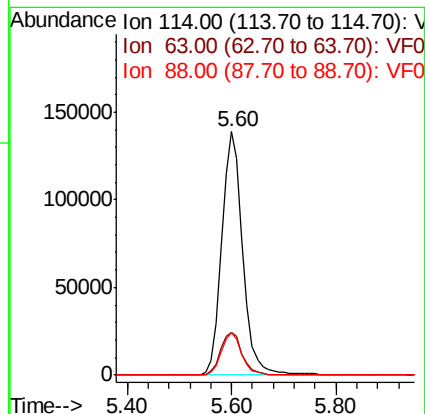
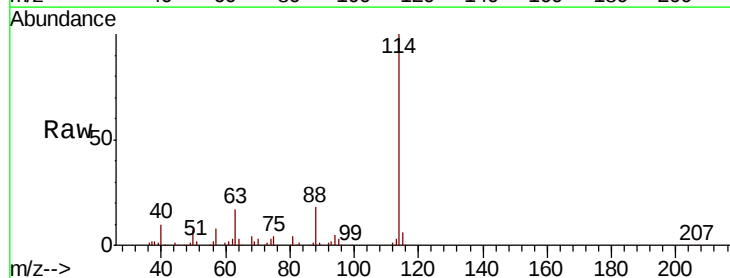
Tgt Ion: 114 Resp: 386654

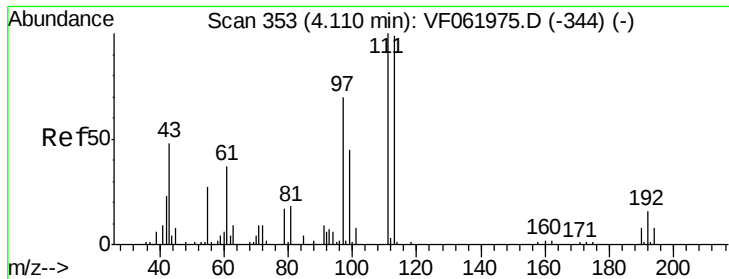
Ion Ratio Lower Upper

114 100

63 17.3 0.0 36.4

88 17.6 0.0 36.4

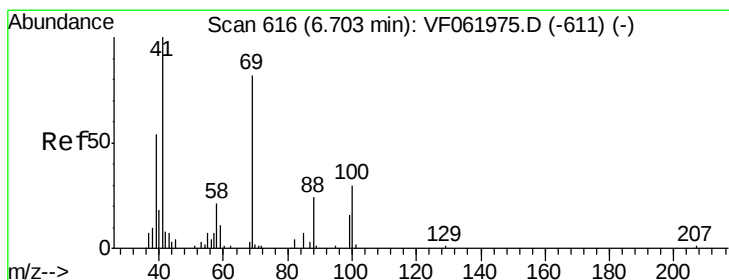
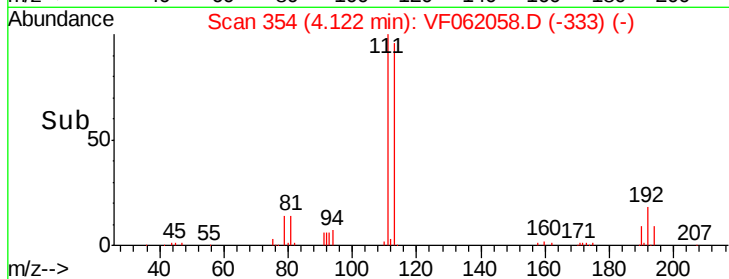
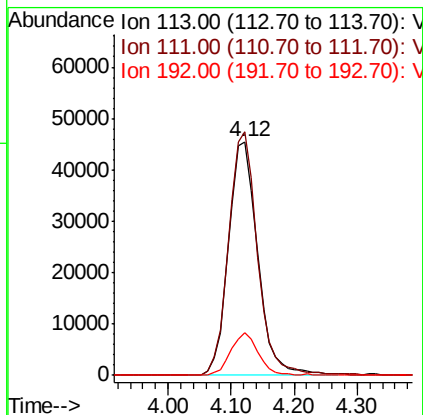
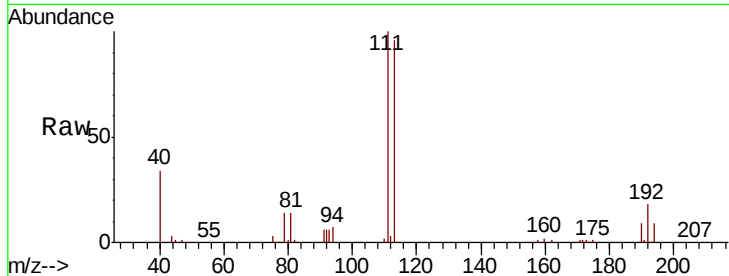




#35
Dibromofluoromethane
Concen: 56.210 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

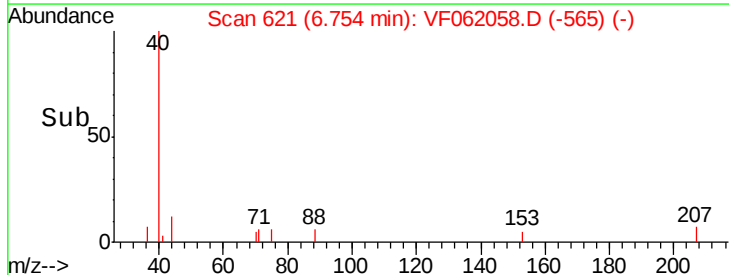
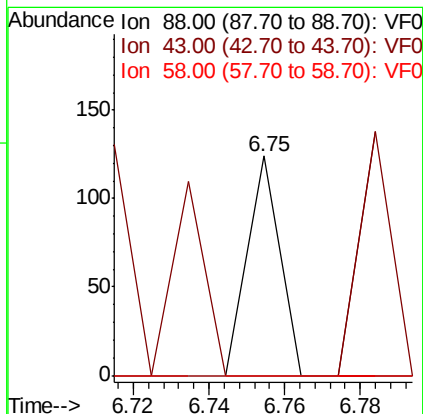
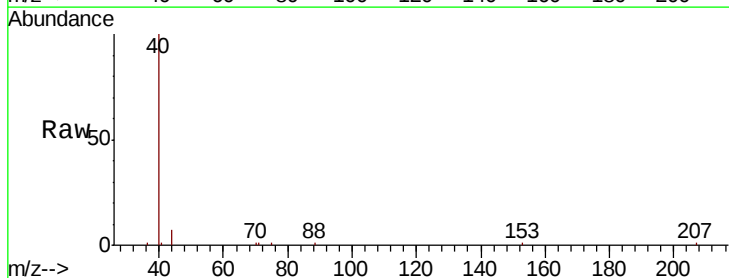
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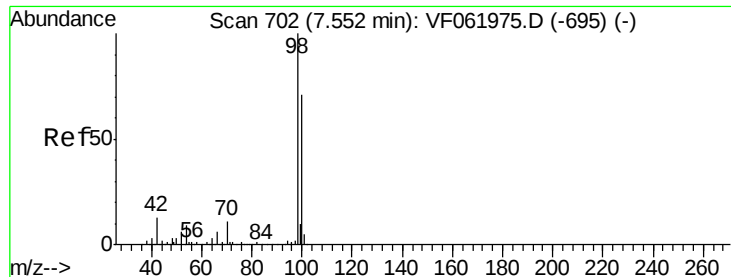
Tgt Ion: 113 Resp: 145946
Ion Ratio Lower Upper
113 100
111 104.2 80.8 121.2
192 18.7 13.0 19.6



#49
1,4-Dioxane
Concen: 6.846 ug/l
RT: 6.75 min Scan# 621
Delta R.T. 0.05 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

Tgt Ion: 88 Resp: 73
Ion Ratio Lower Upper
88 100
43 0.0 31.2 46.8#
58 0.0 69.9 104.9#

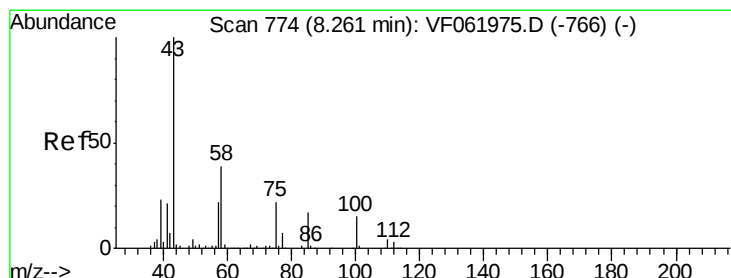
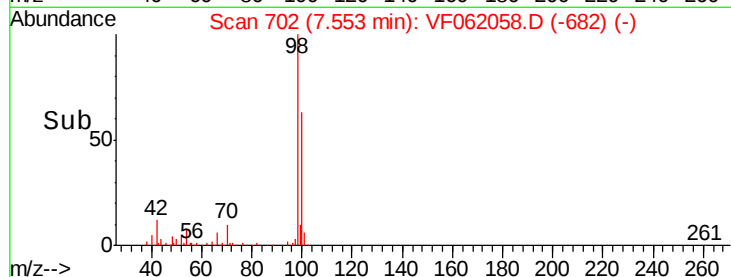
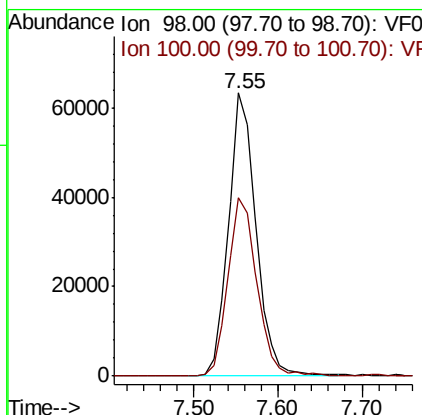
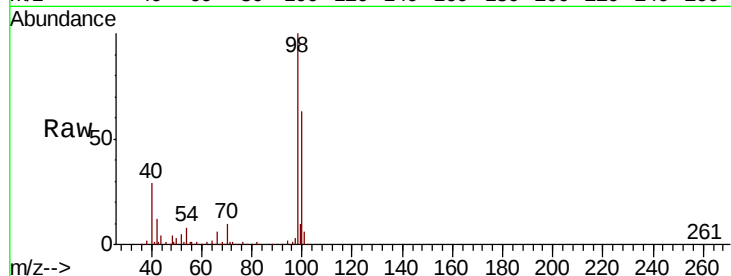




#50
Toluene-d8
Concen: 19.001 ug/l
RT: 7.55 min Scan# 702
Delta R.T. 0.00 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

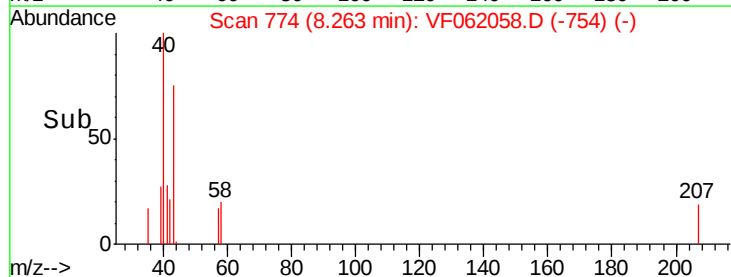
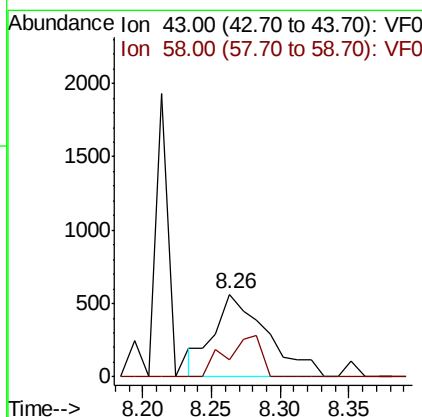
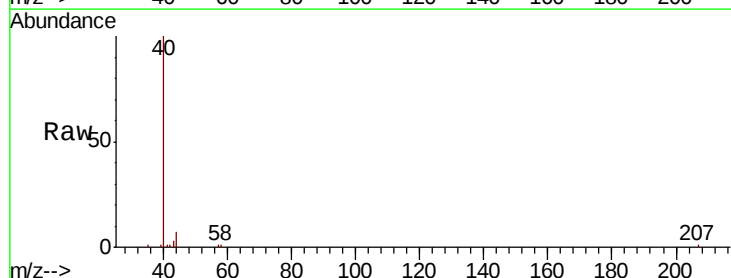
Instrument :
MSVOA_F
ClientSampleId :
JC-02-031919-J

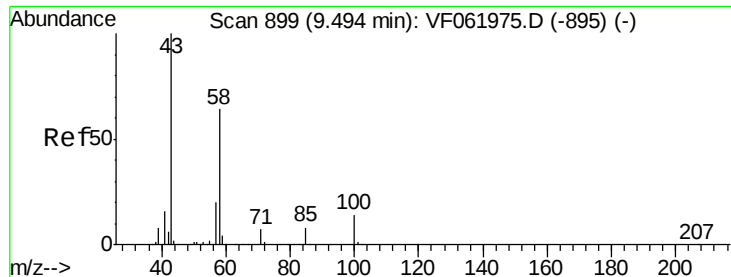
Tgt Ion: 98 Resp: 144221
Ion Ratio Lower Upper
98 100
100 63.2 56.8 85.2



#51
4-Methyl-2-Pentanone
Concen: 1.144 ug/l
RT: 8.26 min Scan# 774
Delta R.T. 0.00 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

Tgt Ion: 43 Resp: 1507
Ion Ratio Lower Upper
43 100
58 21.4 31.1 46.7#

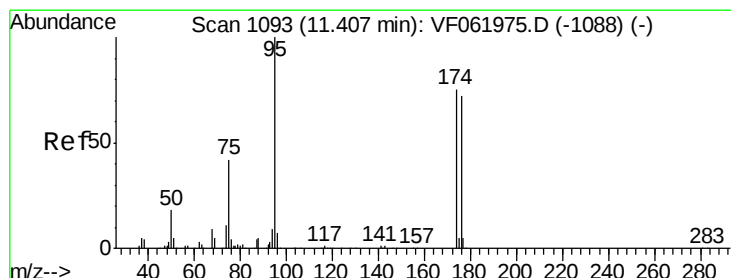
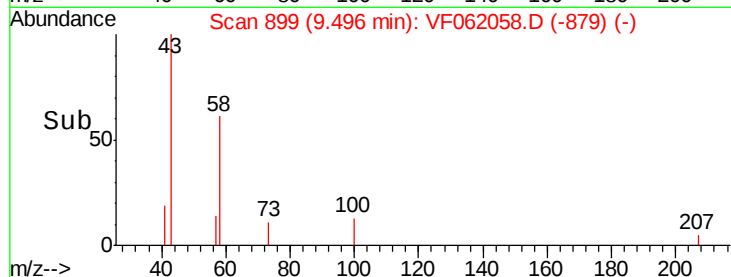
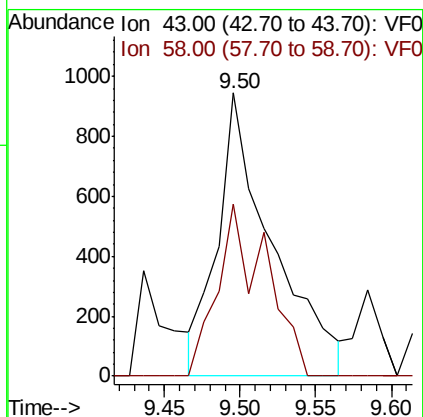
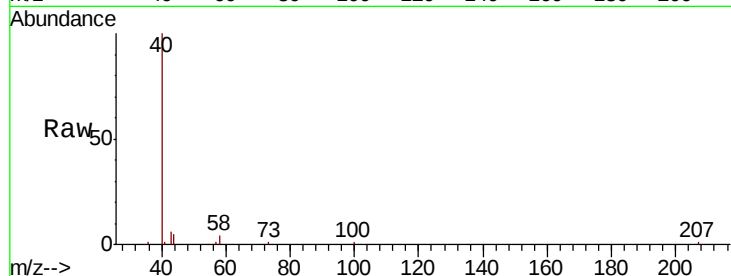




#59
2-Hexanone
Concen: 2.478 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.00 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

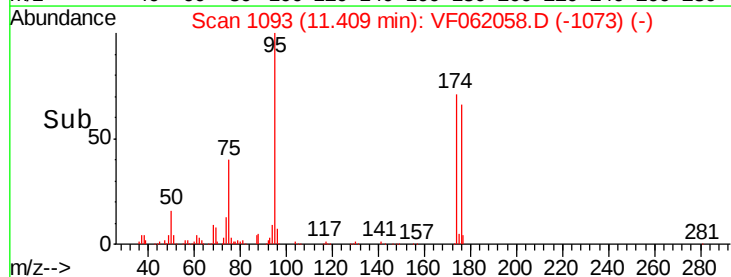
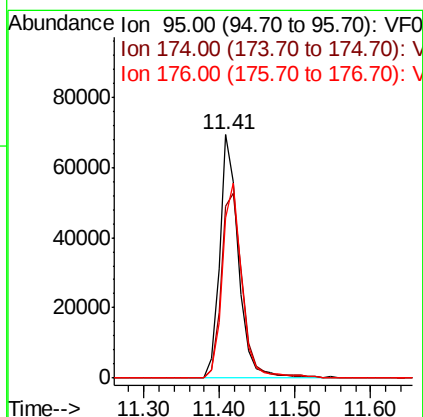
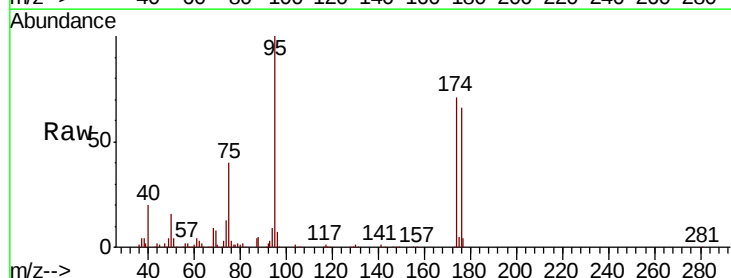
Instrument :
MSVOA_F
ClientSampleId :
JC-02-031919-J

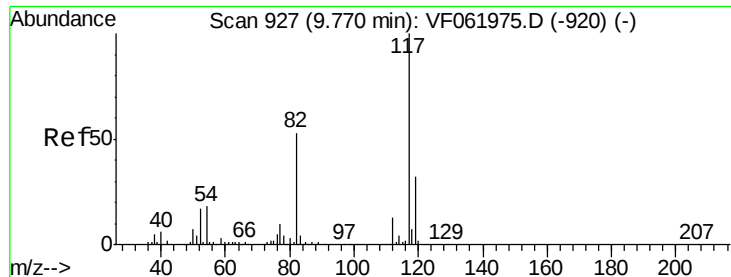
Tgt Ion: 43 Resp: 2362
Ion Ratio Lower Upper
43 100
58 60.7 28.4 85.2



#62
4-Bromofluorobenzene
Concen: 40.179 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

Tgt Ion: 95 Resp: 121152
Ion Ratio Lower Upper
95 100
174 70.7 0.0 149.4
176 66.0 0.0 143.4

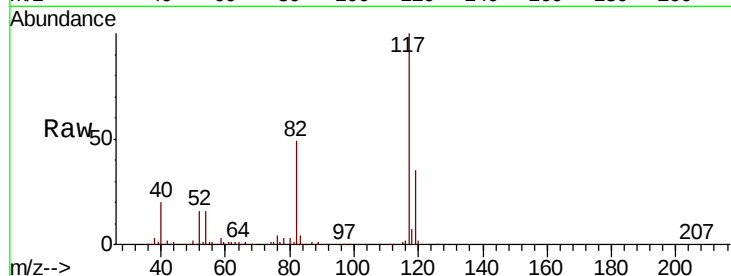




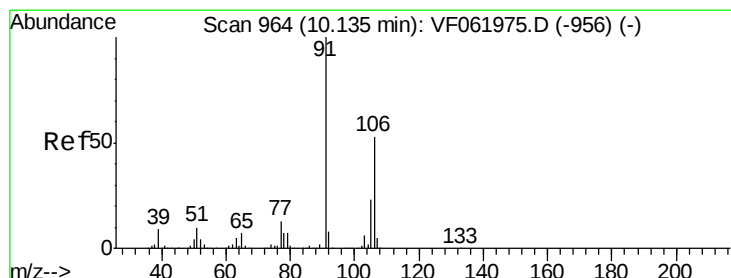
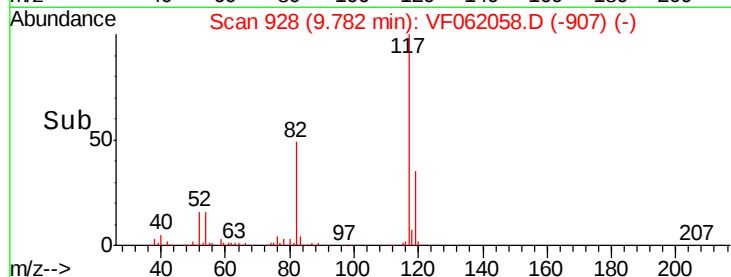
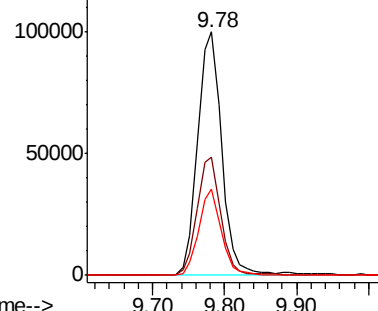
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.01 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

Instrument :
MSVOA_F
ClientSampleId :
JC-02-031919-J

Tgt Ion:117 Resp: 232916
Ion Ratio Lower Upper
117 100
82 48.6 42.5 63.7
119 35.4 25.4 38.0

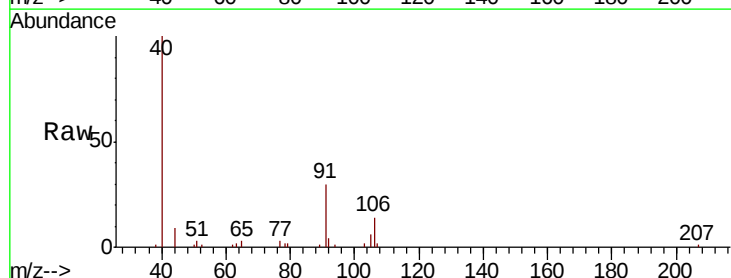


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

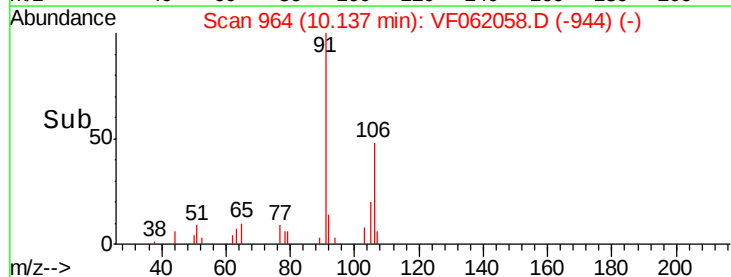
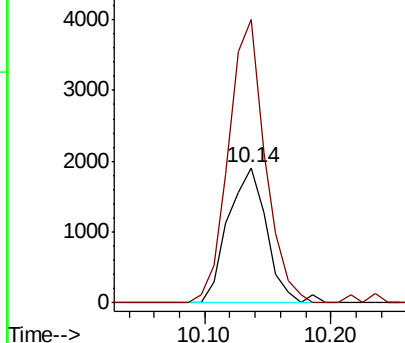


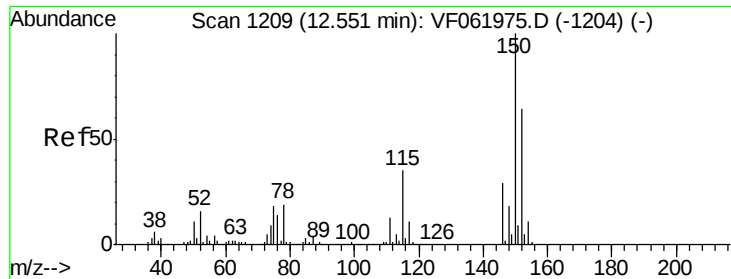
#68
m/p-Xylenes
Concen: 1.450 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.00 min
Lab File: VF062058.D
Acq: 21 Mar 2019 14:02

Tgt Ion:106 Resp: 4048
Ion Ratio Lower Upper
106 100
91 209.7 151.9 227.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

Instrument :

MSVOA_F

ClientSampleId :

JC-02-031919-J

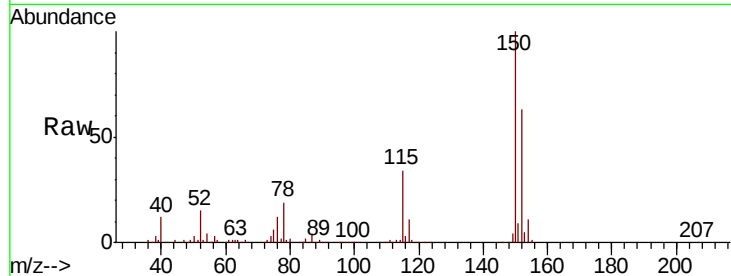
Tgt Ion:152 Resp: 135312

Ion Ratio Lower Upper

152 100

115 54.4 27.3 81.9

150 159.0 0.0 316.2

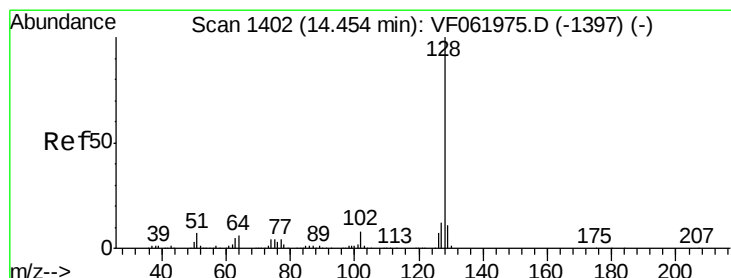
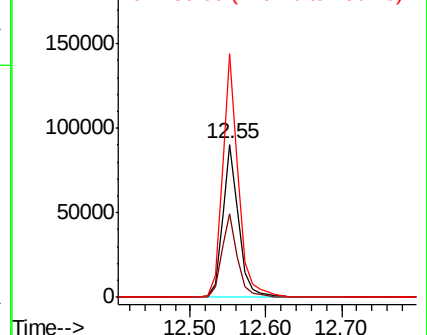
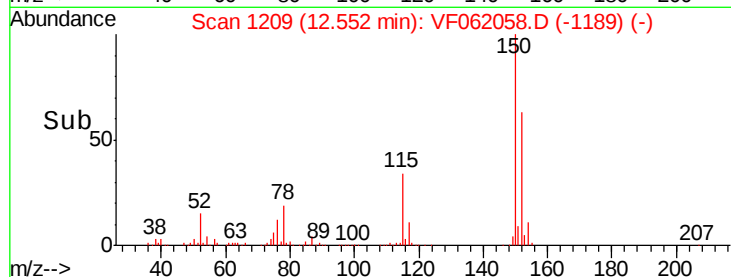


Abundance

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



#95

Naphthalene

Concen: 1.265 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.00 min

Lab File: VF062058.D

Acq: 21 Mar 2019 14:02

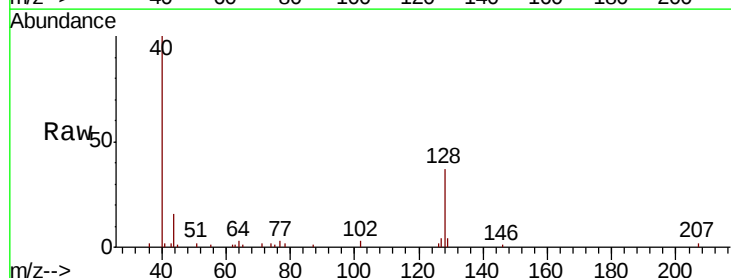
Tgt Ion:128 Resp: 6242

Ion Ratio Lower Upper

128 100

127 11.7 9.3 13.9

129 10.6 9.1 13.7



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

