

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059361.D
 Acq On : 28 Jun 2018 15:33
 Operator : VA/AP
 Sample : J3242-03
 Misc : 5.57g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-B

Quant Time: Jun 29 03:10:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	244361	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	381387	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.92	117	333679	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.64	152	150773	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	142870	45.25	ug/l	0.01
Spiked Amount			Recovery	=	90.50%	
35) Dibromofluoromethane	4.29	113	141816	50.89	ug/l	0.01
Spiked Amount			Recovery	=	101.78%	
50) Toluene-d8	7.71	98	275275	39.90	ug/l	0.01
Spiked Amount			Recovery	=	79.80%	
62) 4-Bromofluorobenzene	11.52	95	156390	40.18	ug/l	0.01
Spiked Amount			Recovery	=	80.36%	

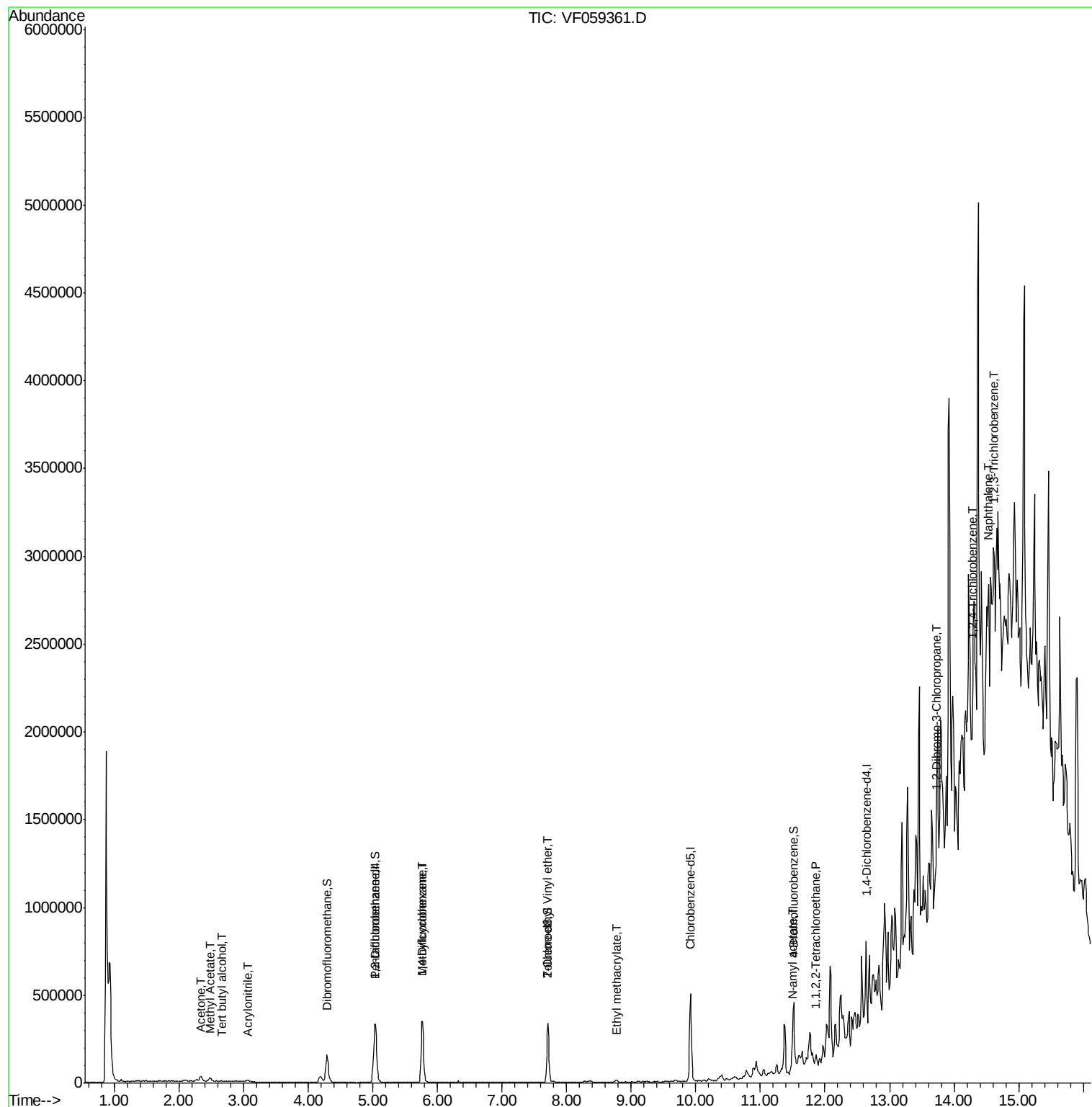
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.35	94	101	Below Cal		93
11) Tert butyl alcohol	2.67	59	1415	6.732	ug/l #	82
13) Acrolein	2.08	56	886	Below Cal	#	55
15) Acrylonitrile	3.05	53	706	1.907	ug/l #	69
16) Acetone	2.34	43	37691	39.202	ug/l	98
18) Methyl Acetate	2.47	43	11430	7.021	ug/l #	74
20) Methylene Chloride	2.28	84	3300	Below Cal	#	83
25) 2-Butanone	4.49	43	329	Below Cal	#	46
28) Bromochloromethane	3.87	49	69	Below Cal	#	6
29) Tetrahydrofuran	4.25	42	959	Below Cal	#	53
37) Ethyl Acetate	4.30	43	496	Below Cal	#	69
39) Methylcyclohexane	5.76	83	4805	1.627	ug/l #	36
49) 1,4-Dioxane	6.86	88	67	Below Cal	#	21
56) Ethyl methacrylate	8.78	69	6195	2.330	ug/l #	87
58) 2-Chloroethyl Vinyl ether	7.70	63	446	2.237	ug/l	100
59) 2-Hexanone	9.63	43	2190	Below Cal		68
74) N-amyl acetate	11.49	43	9685	3.038	ug/l #	20
75) 1,1,2,2-Tetrachloroethane	11.87	83	3296	1.486	ug/l	76
87) 1,3-Dichlorobenzene	12.55	146	1266	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	13.71	75	750	1.525	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.28	180	8297	2.536	ug/l #	90
95) Naphthalene	14.53	128	14486	2.116	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.61	180	47331	15.273	ug/l #	39

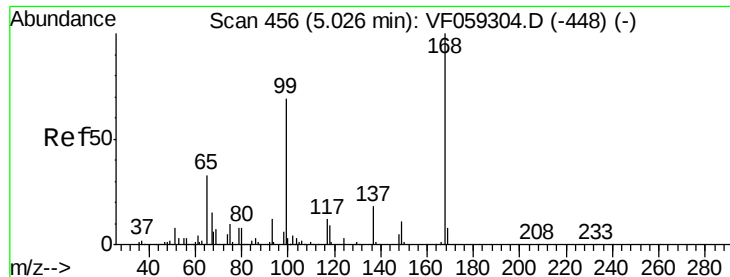
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 26 08:45:17 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

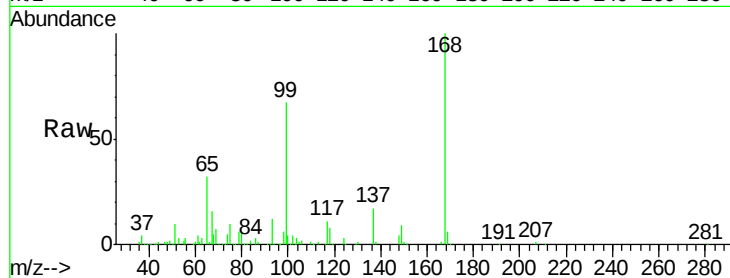
JC-02-062618-B

Tot Ion:168 Resp: 244361

Ion Ratio Lower Upper

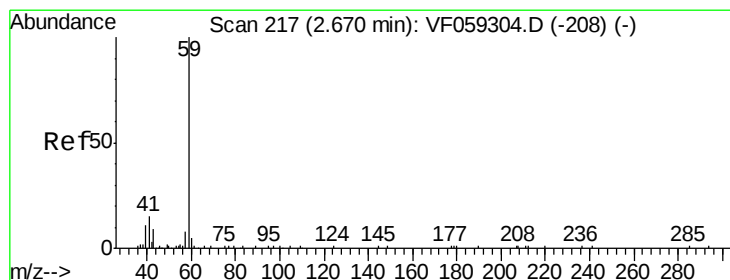
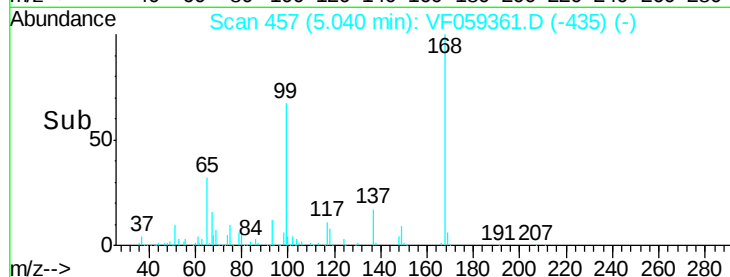
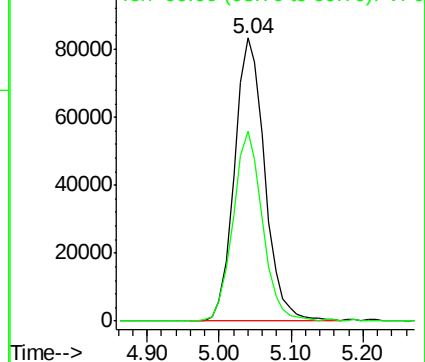
168 100

99 67.2 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 6.732 ug/l

RT: 2.67 min Scan# 217

Delta R.T. 0.00 min

Lab File: VF059361.D

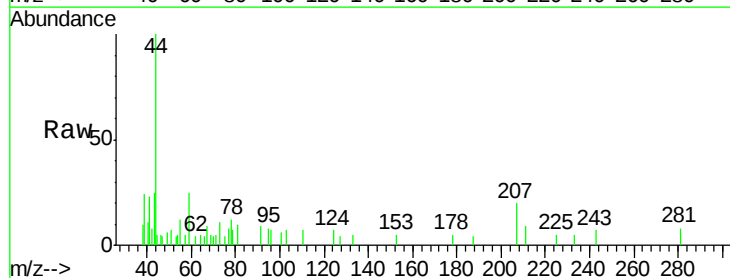
Acq: 28 Jun 2018 15:33

Tgt Ion: 59 Resp: 1415

Ion Ratio Lower Upper

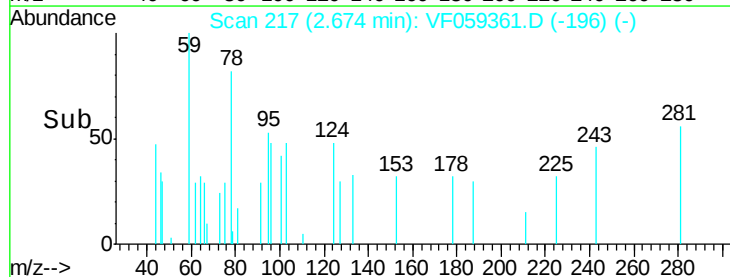
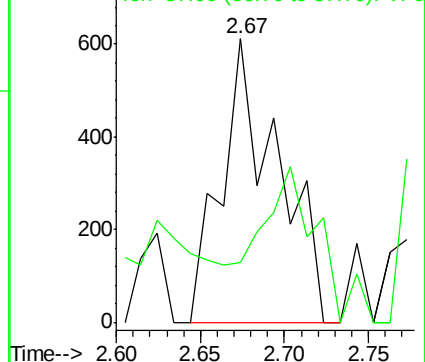
59 100

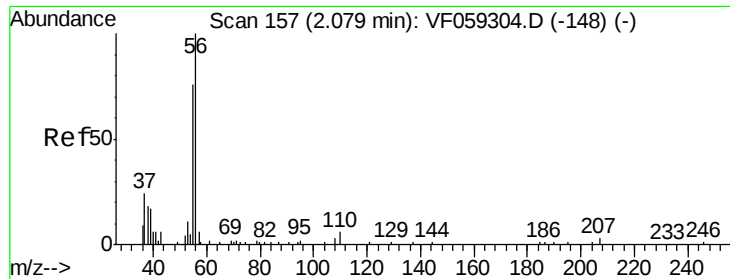
57 21.1 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.08 min Scan# 157

Delta R.T. 0.00 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

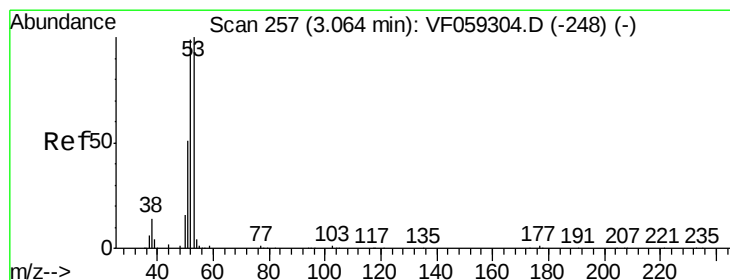
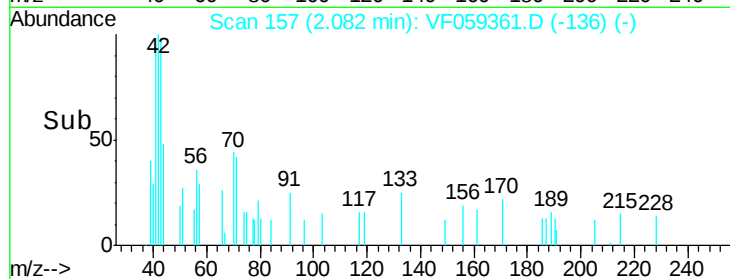
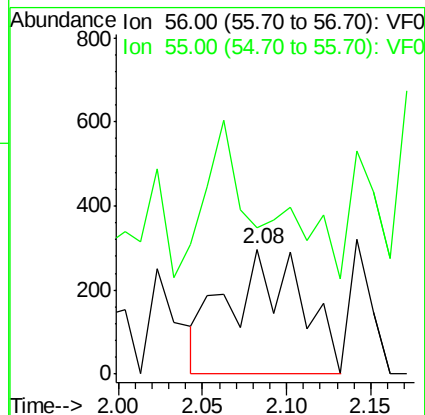
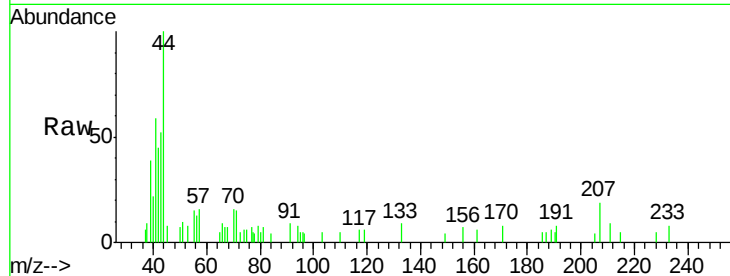
JC-02-062618-B

Tot Ion: 56 Resp: 886

Ion Ratio Lower Upper

56 100

55 116.8 62.4 93.6#



#15

Acrylonitrile

Concen: 1.907 ug/l

RT: 3.05 min Scan# 255

Delta R.T. -0.02 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

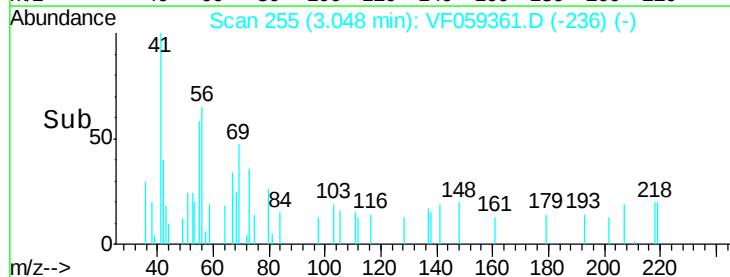
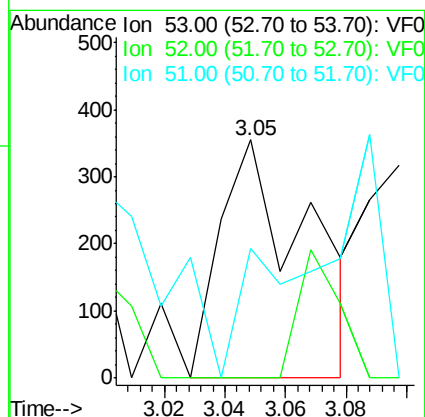
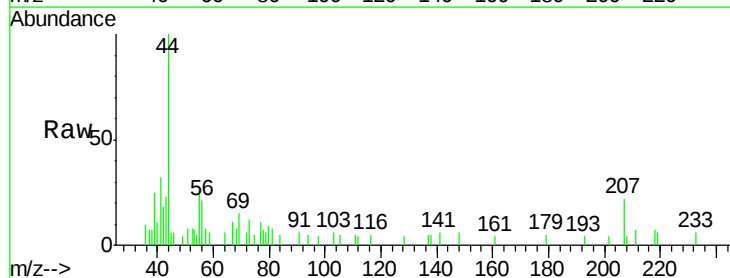
Tgt Ion: 53 Resp: 706

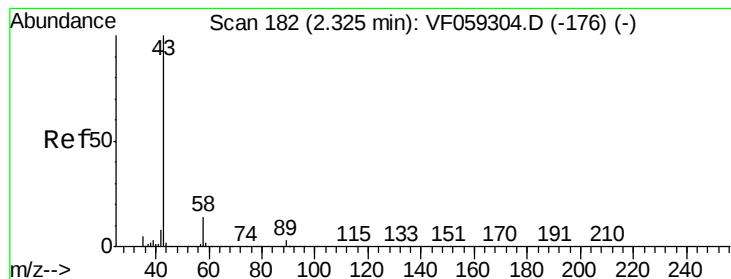
Ion Ratio Lower Upper

53 100

52 54.4 79.2 118.8#

51 54.4 40.9 61.3





#16

Acetone

Concen: 39.202 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

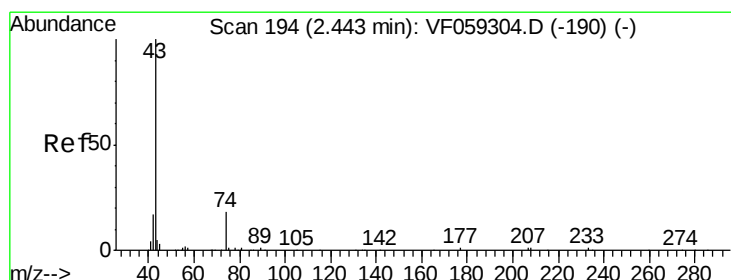
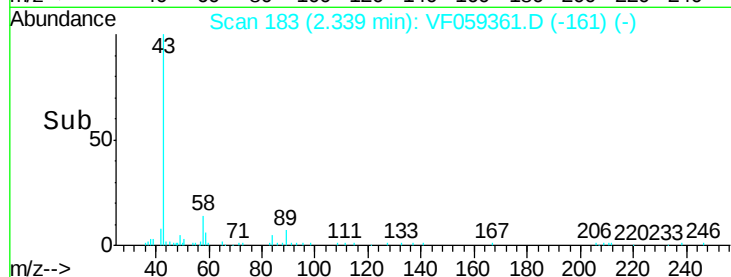
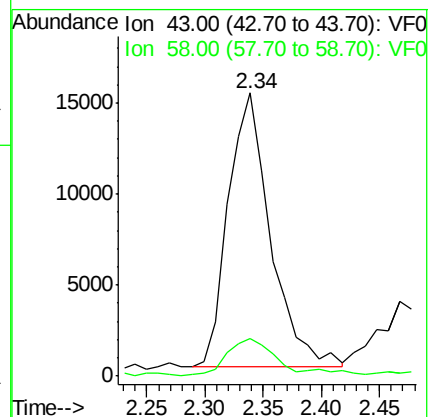
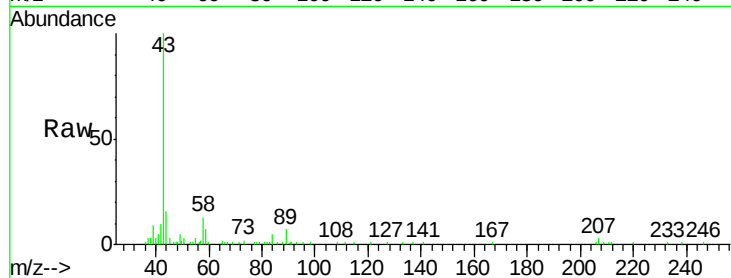
JC-02-062618-B

Tot Ion: 43 Resp: 37691

Ion Ratio Lower Upper

43 100

58 13.2 11.4 17.0



#18

Methyl Acetate

Concen: 7.021 ug/l

RT: 2.47 min Scan# 196

Delta R.T. 0.02 min

Lab File: VF059361.D

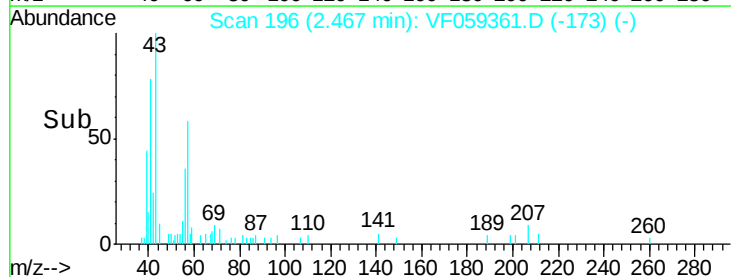
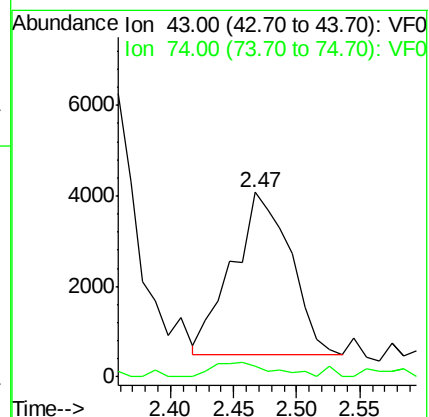
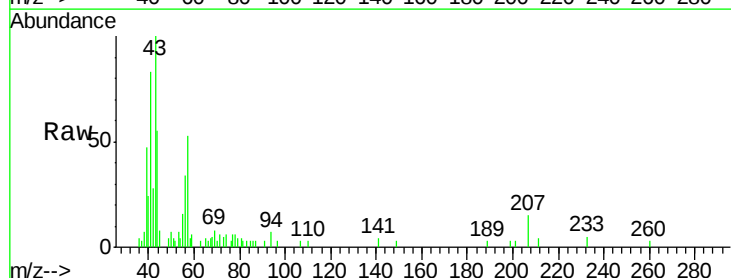
Acq: 28 Jun 2018 15:33

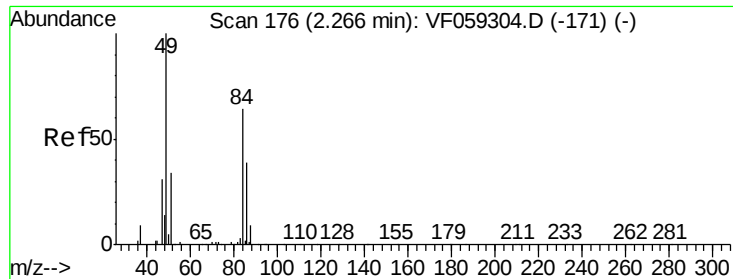
Tgt Ion: 43 Resp: 11430

Ion Ratio Lower Upper

43 100

74 5.6 13.3 19.9#



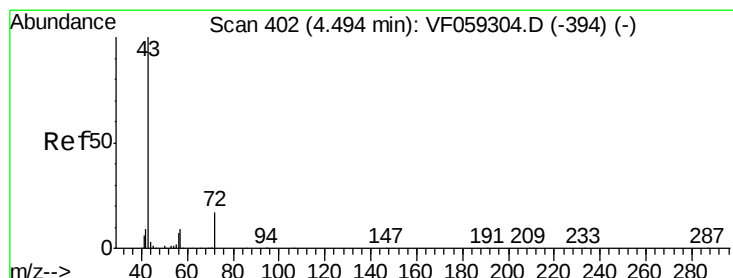
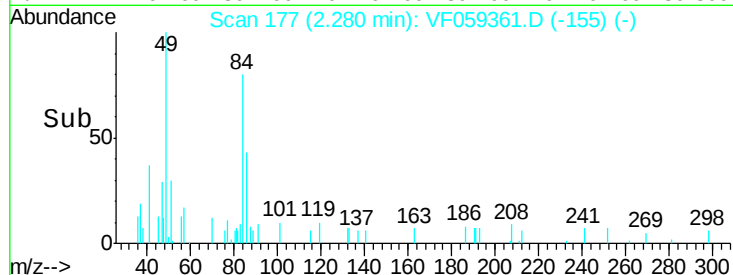
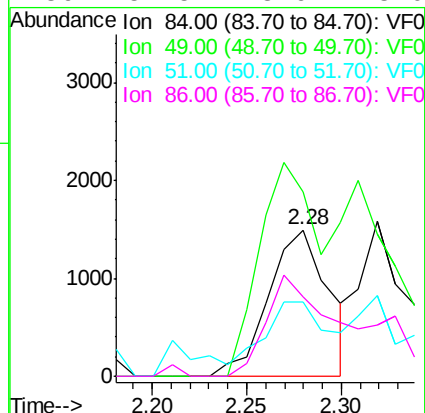
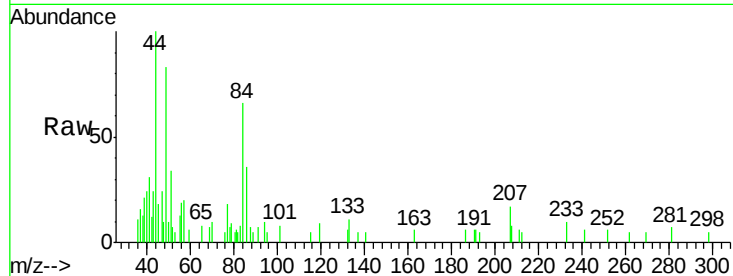


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.28 min Scan# 177
 Delta R.T. 0.01 min
 Lab File: VF059361.D
 Acq: 28 Jun 2018 15:33

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-B

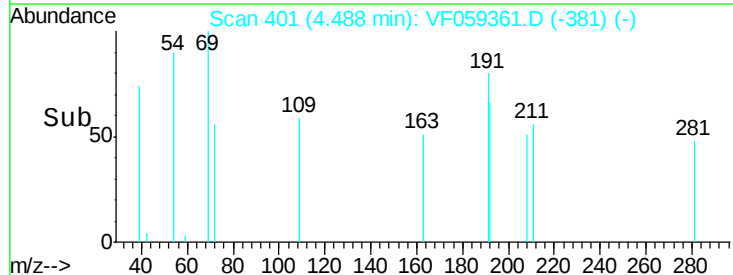
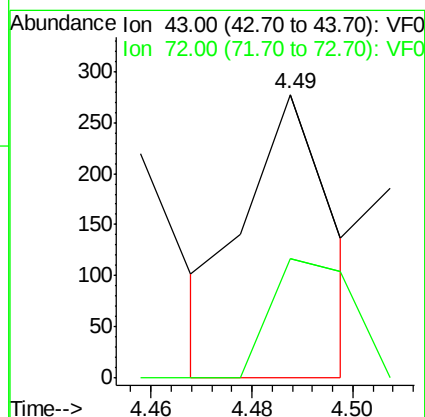
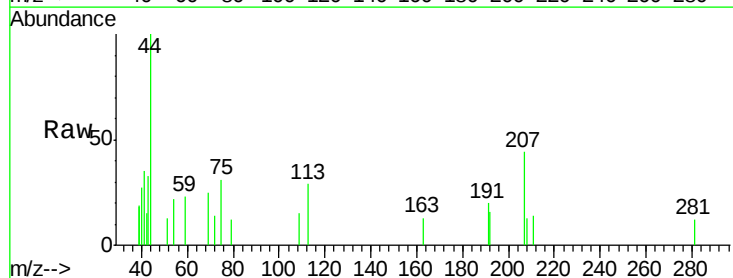
Tot Ion:	84	Resp:	3300
Ion	Ratio	Lower	Upper
84	100		
49	125.7	126.5	189.7#
51	50.7	42.9	64.3
86	54.5	48.6	73.0

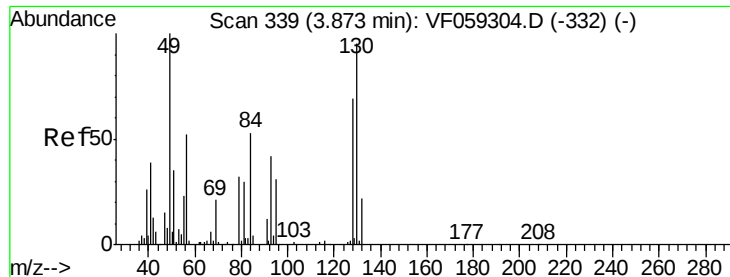


#25

2-Butanone
 Concen: Below Cal
 RT: 4.49 min Scan# 401
 Delta R.T. -0.01 min
 Lab File: VF059361.D
 Acq: 28 Jun 2018 15:33

Tgt Ion:	43	Resp:	329
Ion	Ratio	Lower	Upper
43	100		
72	42.1	14.4	21.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.87 min Scan# 338

Delta R.T. -0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-B

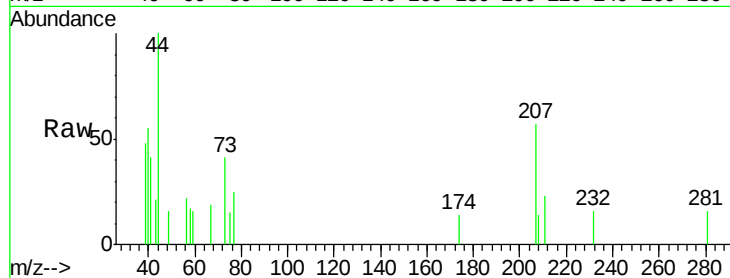
Tot Ion: 49 Resp: 69

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

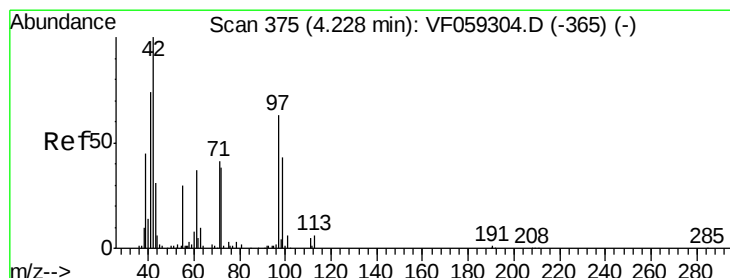
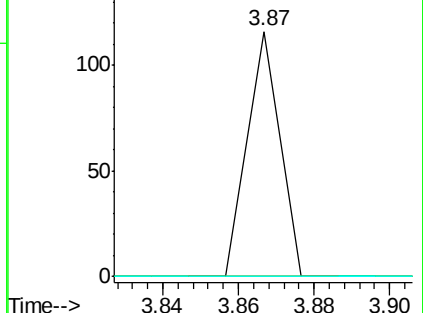
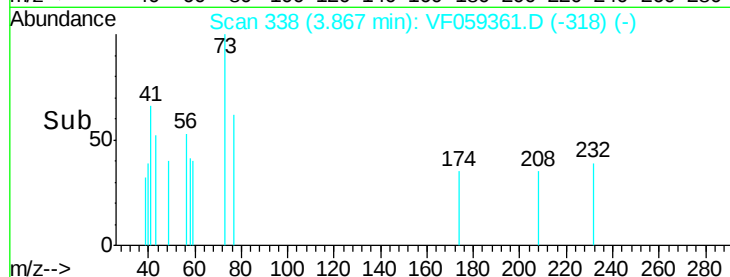
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.25 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

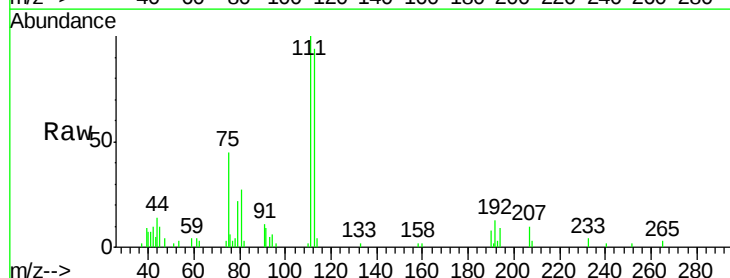
Tgt Ion: 42 Resp: 959

Ion Ratio Lower Upper

42 100

72 21.1 30.5 45.7#

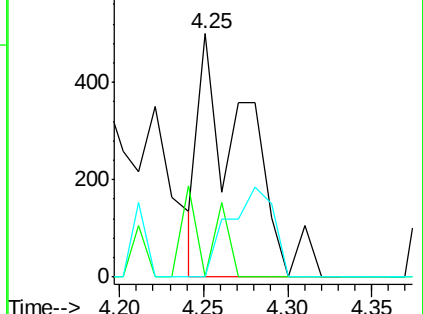
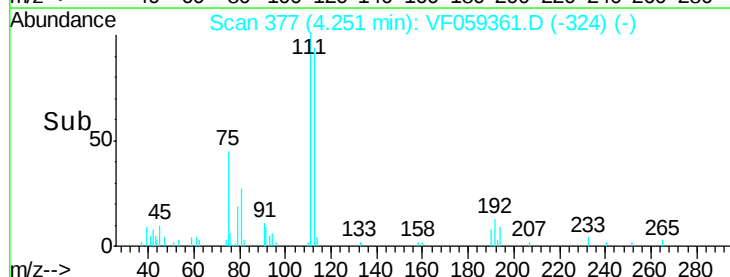
71 0.0 32.5 48.7#

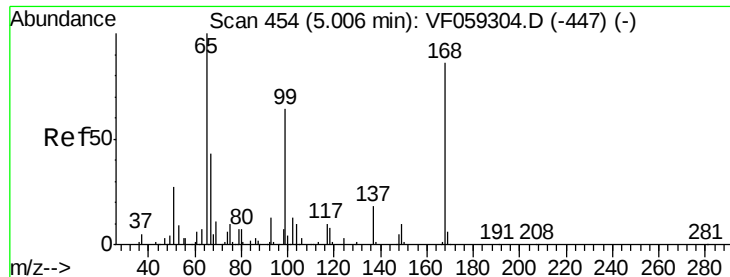


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 45.253 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

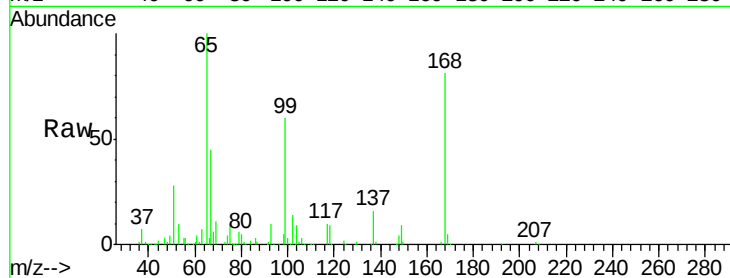
JC-02-062618-B

Tot Ion: 65 Resp: 142870

Ion Ratio Lower Upper

65 100

67 45.1 0.0 96.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.02

60000

50000

40000

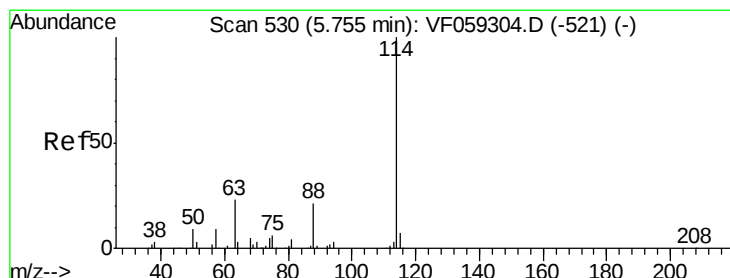
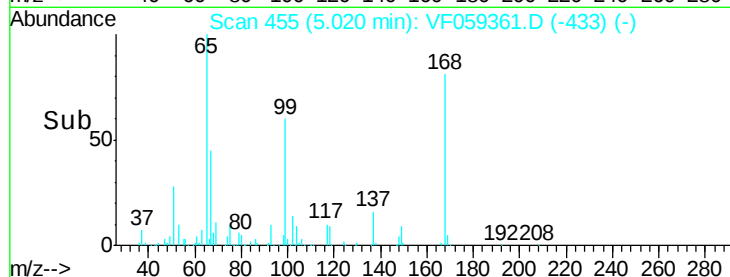
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

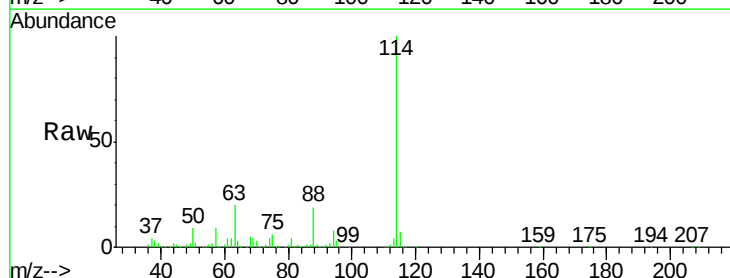
Tgt Ion:114 Resp: 381387

Ion Ratio Lower Upper

114 100

63 20.0 0.0 45.8

88 19.2 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

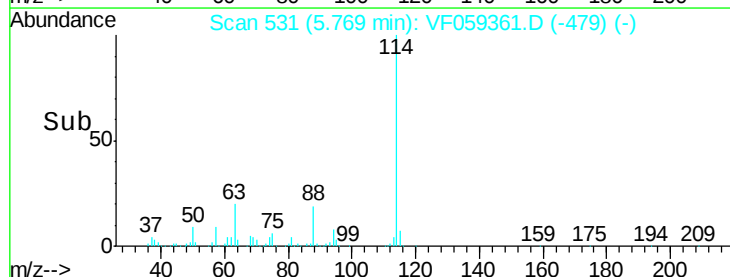
150000

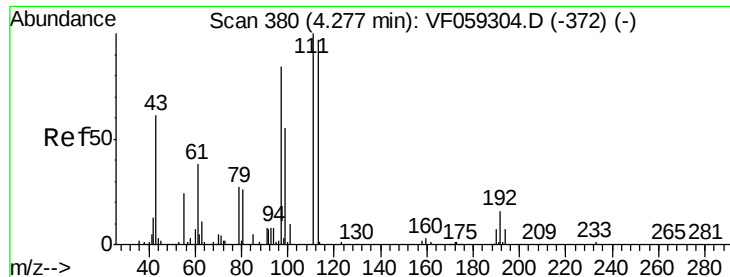
100000

50000

0

Time-->

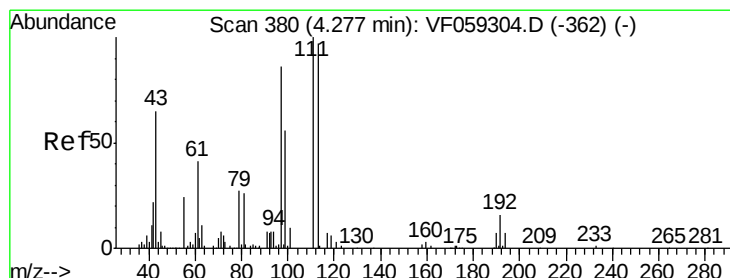
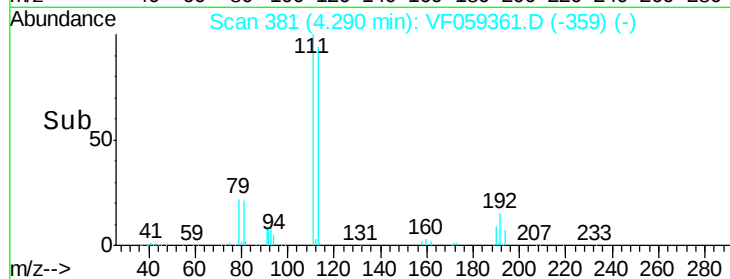
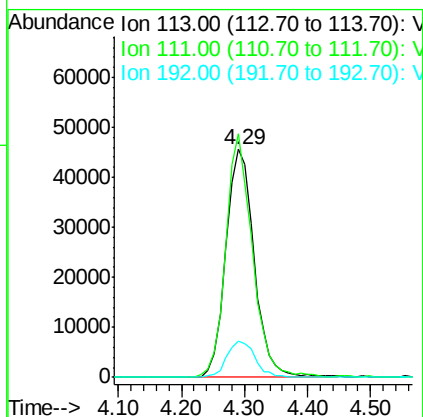
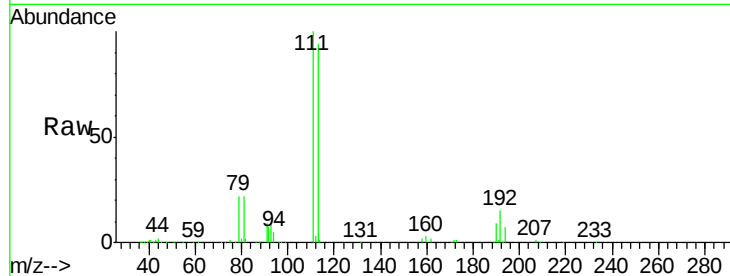




#35
 Dibromofluoromethane
 Concen: 50.891 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VF059361.D
 Acq: 28 Jun 2018 15:33

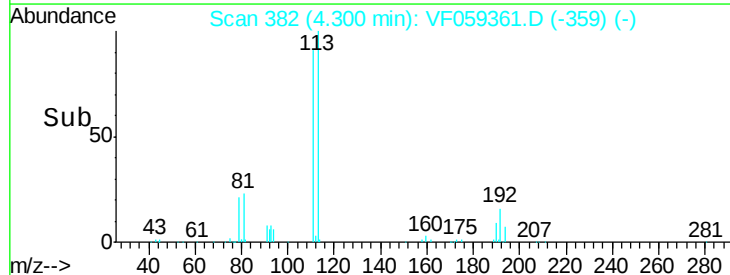
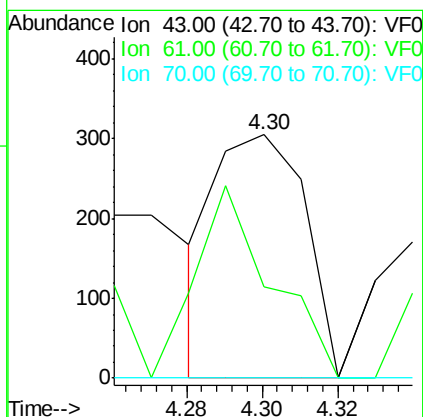
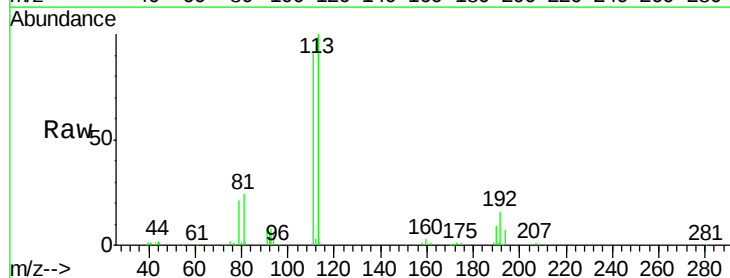
Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-062618-B

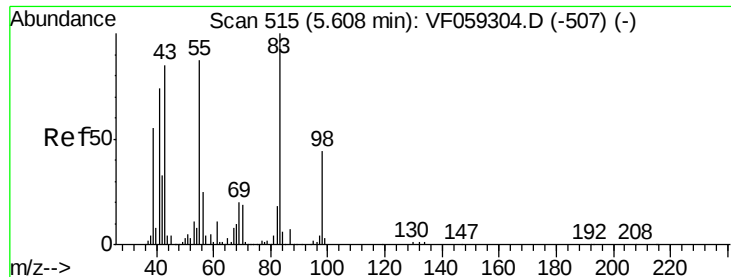
Tot Ion	Ratio	Lower	Upper
113	100		
111	106.9	82.1	123.1
192	16.1	13.0	19.6



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.30 min Scan# 382
 Delta R.T. 0.02 min
 Lab File: VF059361.D
 Acq: 28 Jun 2018 15:33

Tgt Ion	Ratio	Lower	Upper
43	100		
61	37.4	50.1	75.1#
70	0.0	6.2	9.4#

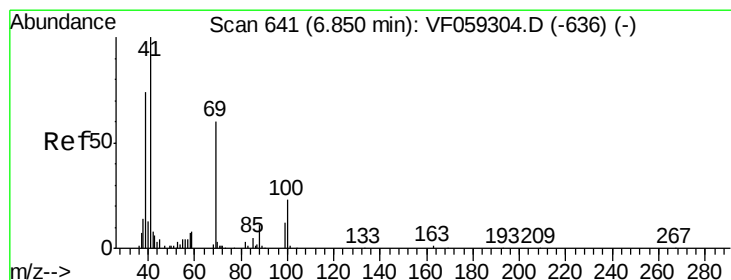
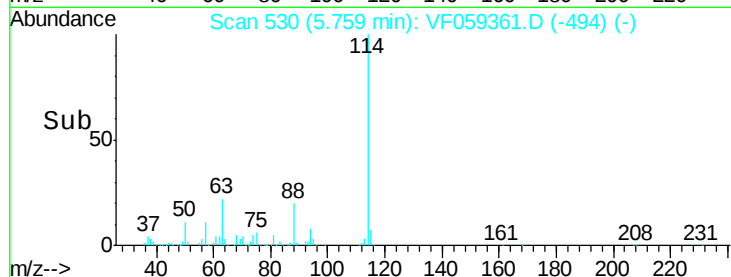
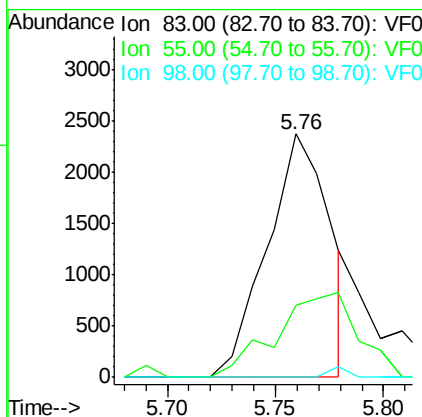
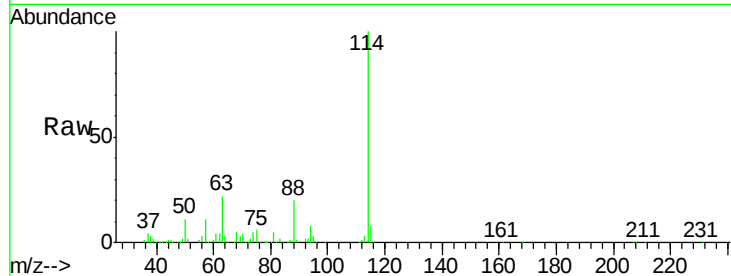




#39
Methvlcvclohexane
Concen: 1.627 ug/l
RT: 5.76 min Scan# 530
Delta R.T. 0.15 min
Lab File: VF059361.D
Acq: 28 Jun 2018 15:33

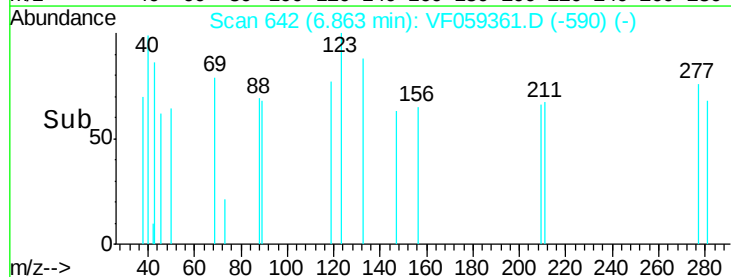
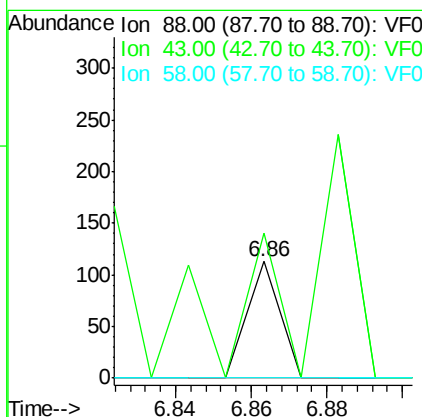
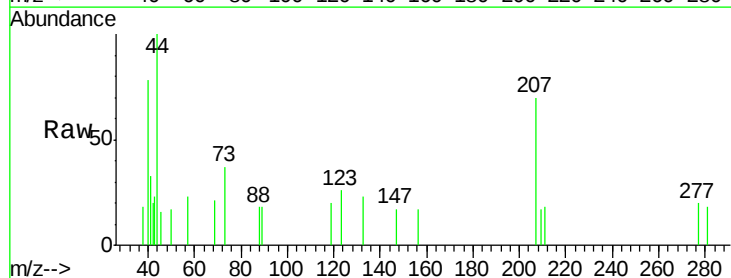
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-B

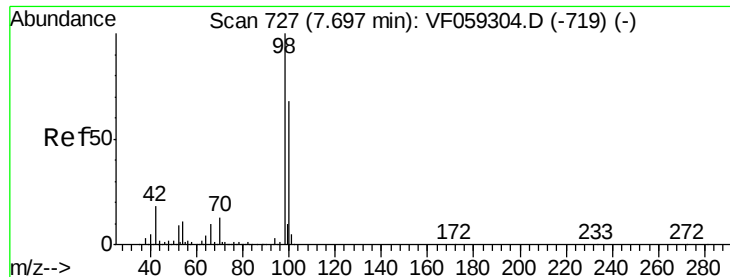
Tot Ion: 83 Resp: 4805
Ion Ratio Lower Upper
83 100
55 29.6 69.2 103.8#
98 0.0 35.0 52.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.86 min Scan# 642
Delta R.T. 0.01 min
Lab File: VF059361.D
Acq: 28 Jun 2018 15:33

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 124.8 50.6 75.8#
58 0.0 46.6 69.8#





#50

Toluene-d8

Concen: 39.898 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

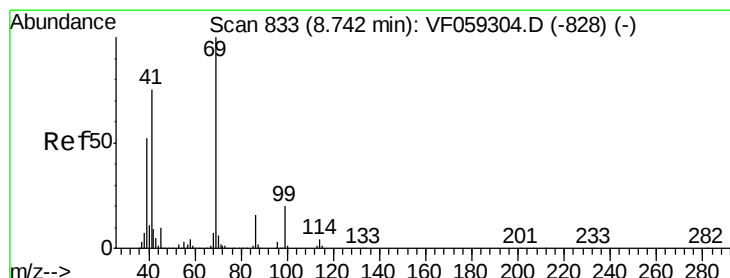
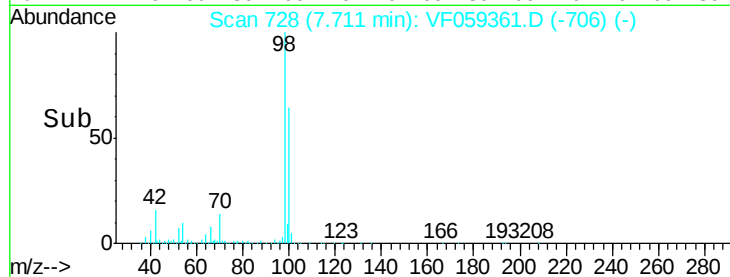
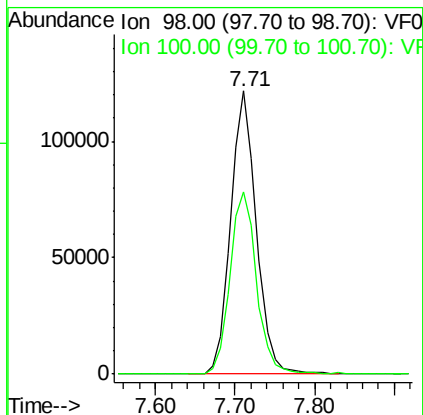
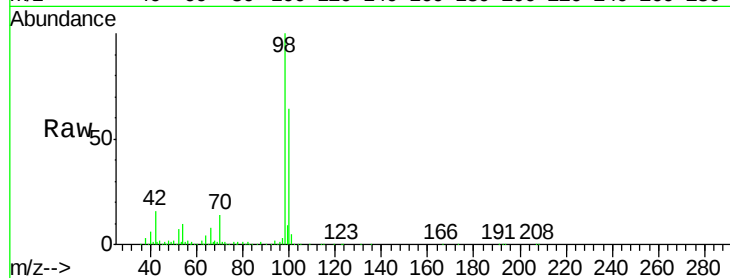
JC-02-062618-B

Tot Ion: 98 Resp: 275275

Ion Ratio Lower Upper

98 100

100 64.4 54.6 82.0



#56

Ethyl methacrylate

Concen: 2.330 ug/l

RT: 8.78 min Scan# 836

Delta R.T. 0.03 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

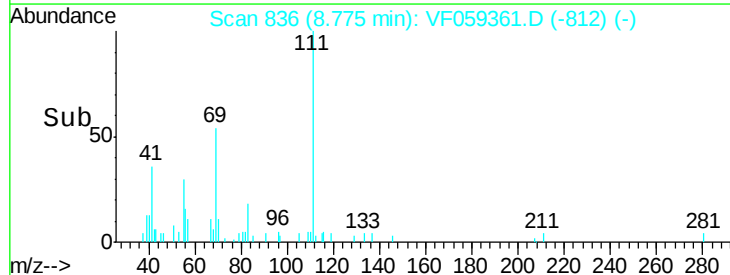
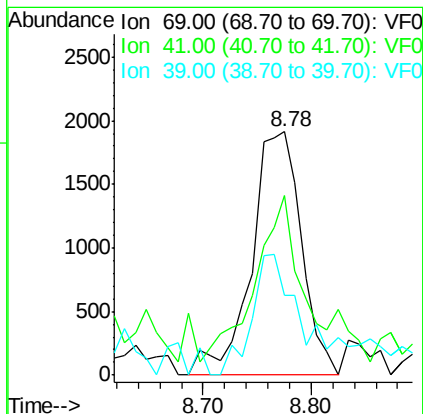
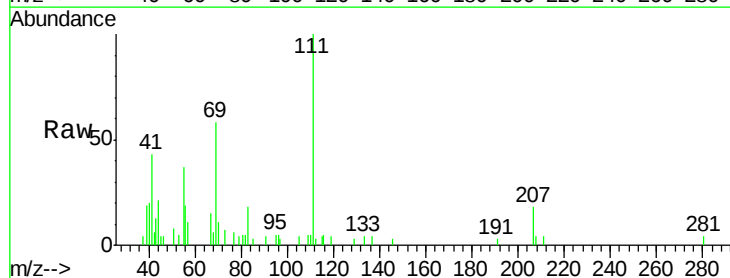
Tgt Ion: 69 Resp: 6195

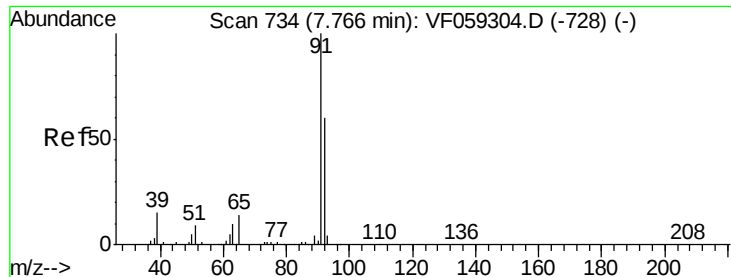
Ion Ratio Lower Upper

69 100

41 73.9 60.3 90.5

39 32.7 42.2 63.4#

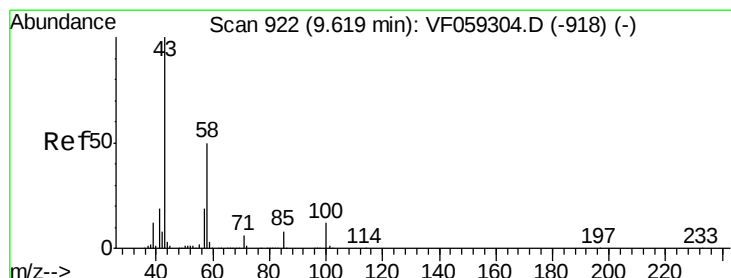
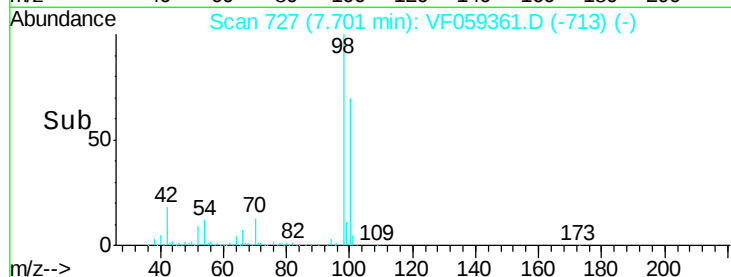
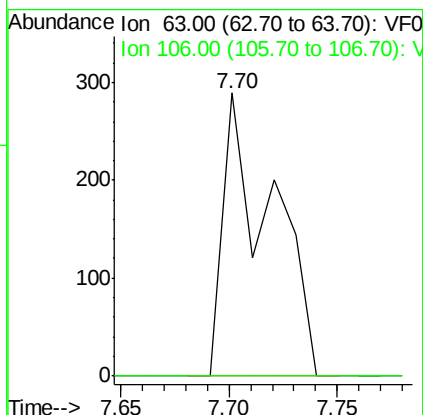
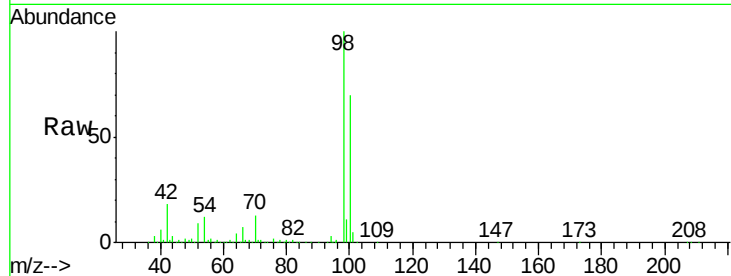




#58
2-Chloroethyl Vinyl ether
Concen: 2.237 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.07 min
Lab File: VF059361.D
Acq: 28 Jun 2018 15:33

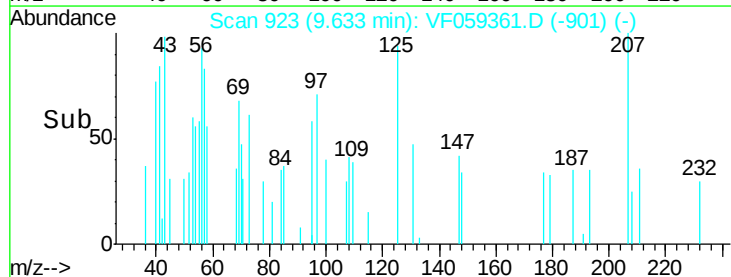
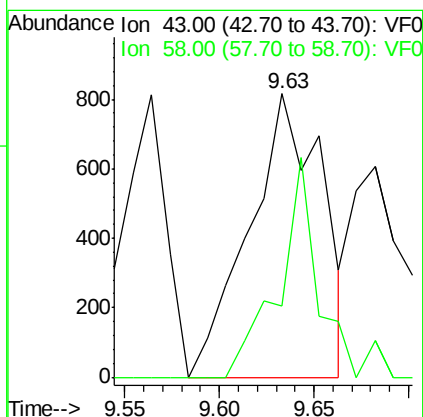
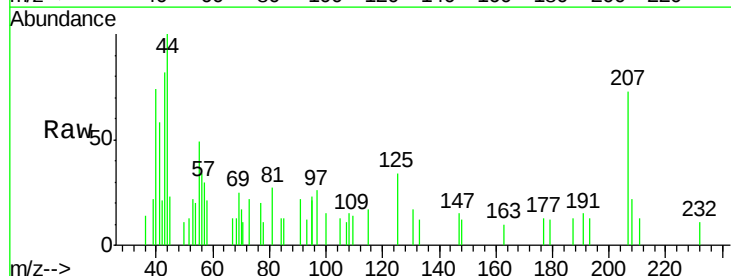
Instrument :
MSVOA_F
ClientSampleId :
JC-02-062618-B

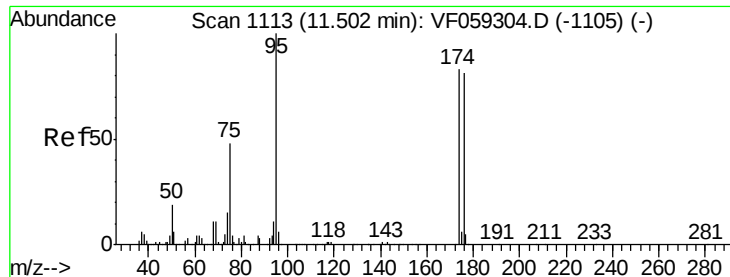
Tot Ion: 63 Resp: 446
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: Below Cal
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF059361.D
Acq: 28 Jun 2018 15:33

Tgt Ion: 43 Resp: 2190
Ion Ratio Lower Upper
43 100
58 25.1 23.3 69.9





#62

4-Bromofluorobenzene

Concen: 40.183 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-B

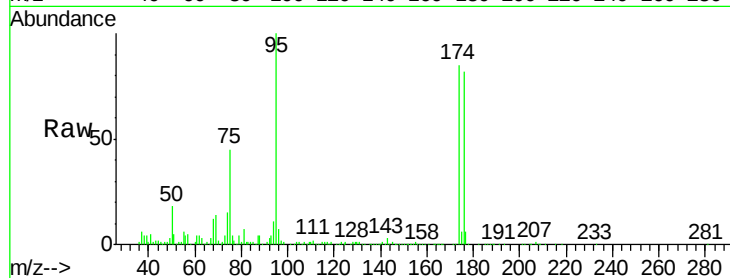
Tot Ion: 95 Resp: 156390

Ion Ratio Lower Upper

95 100

174 85.2 0.0 165.2

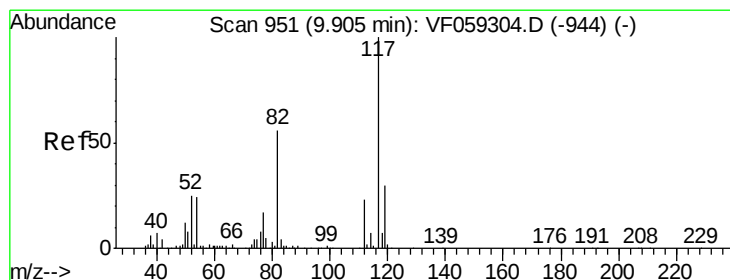
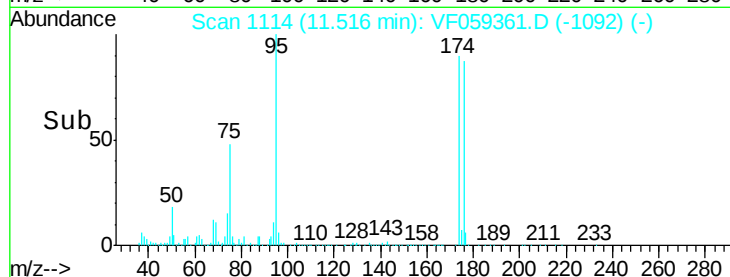
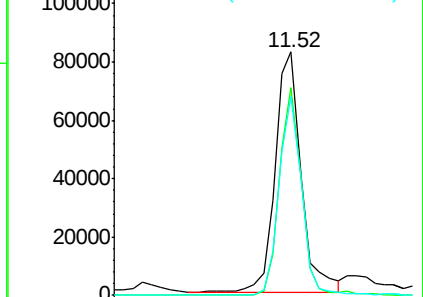
176 81.7 0.0 161.0



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

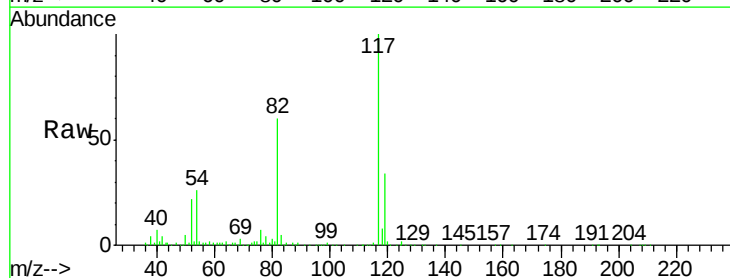
Tgt Ion: 117 Resp: 333679

Ion Ratio Lower Upper

117 100

82 60.1 44.6 66.8

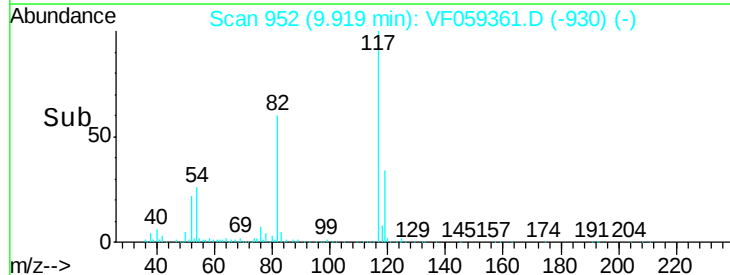
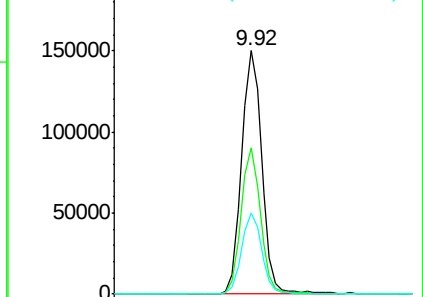
119 33.5 24.1 36.1

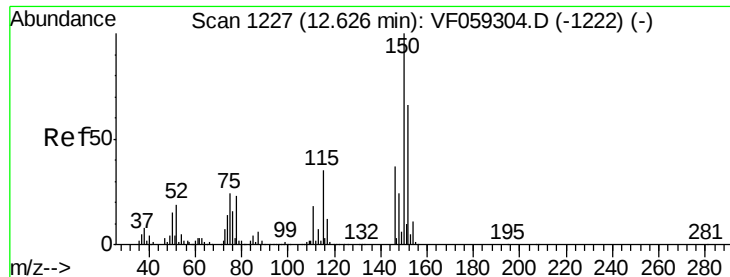


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.64 min Scan# 1228

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-B

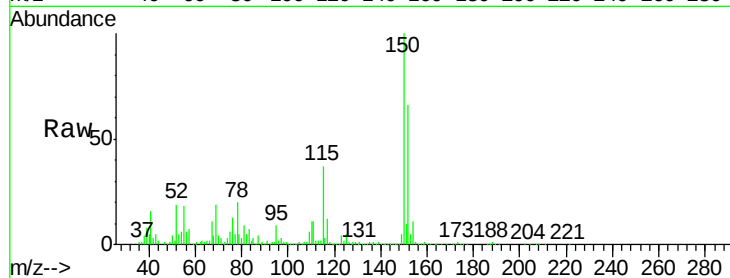
Tot Ion:152 Resp: 150773

Ion Ratio Lower Upper

152 100

115 55.9 27.1 81.3

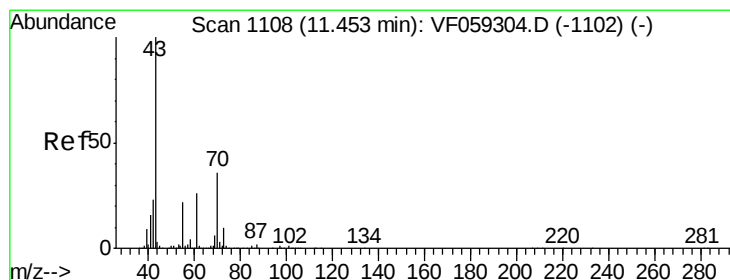
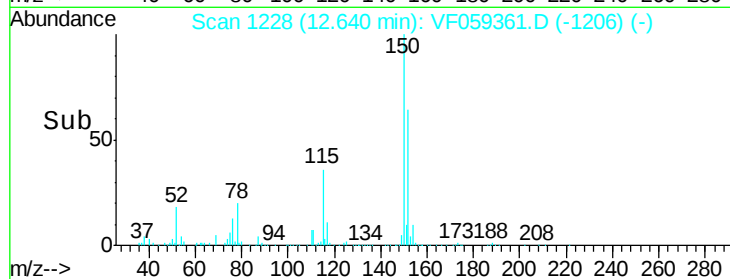
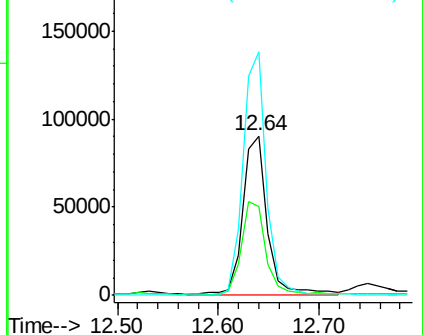
150 152.4 0.0 305.2



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



#74

N-ethyl acetate

Concen: 3.038 ug/l

RT: 11.49 min Scan# 1111

Delta R.T. 0.03 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Tgt Ion: 43 Resp: 9685

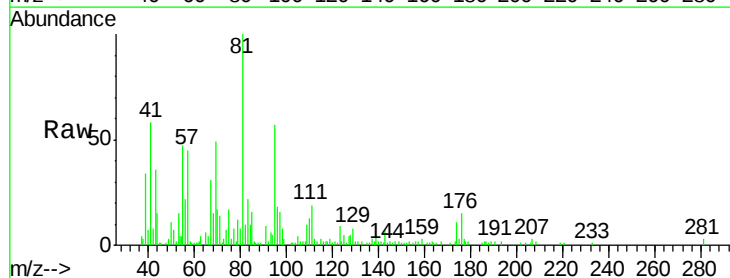
Ion Ratio Lower Upper

43 100

70 46.3 28.8 43.2#

55 130.4 17.4 26.0#

61 3.9 21.1 31.7#

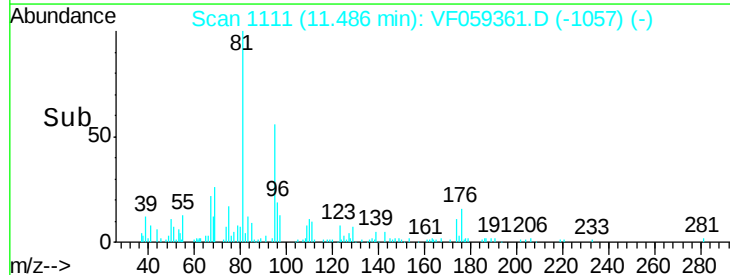
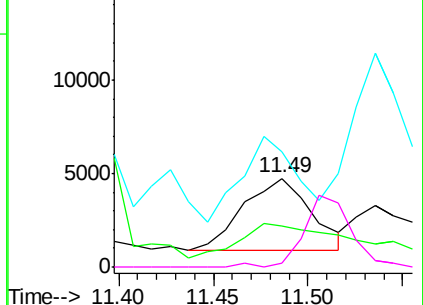


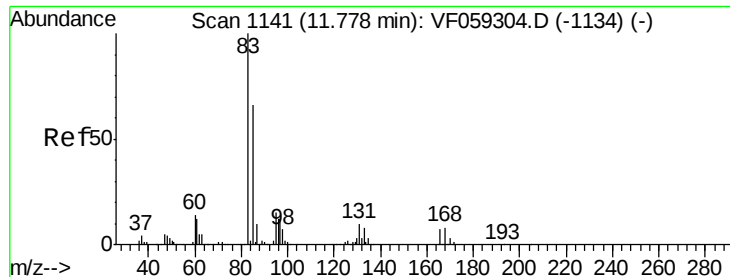
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 1.486 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. 0.09 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-B

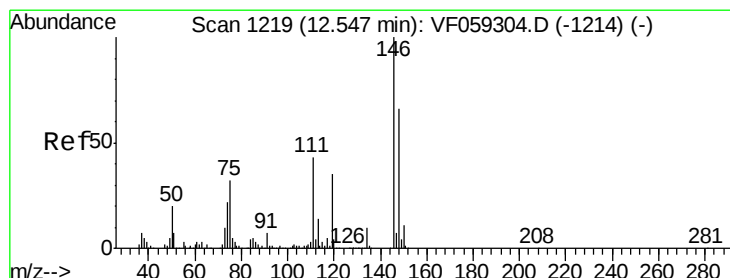
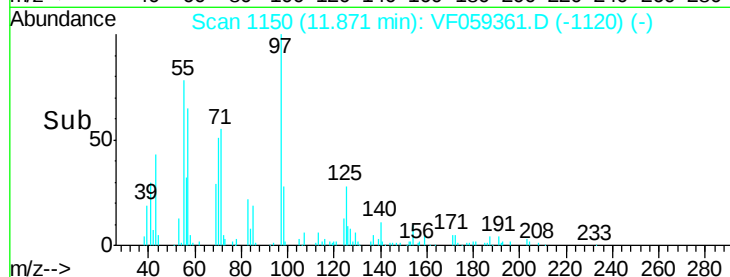
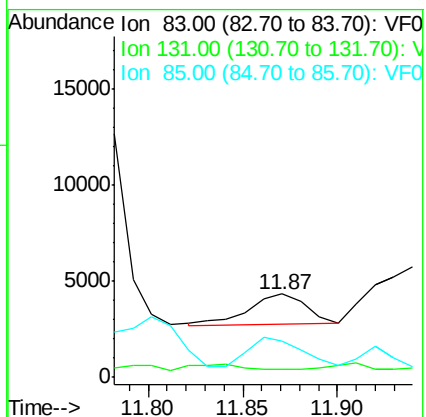
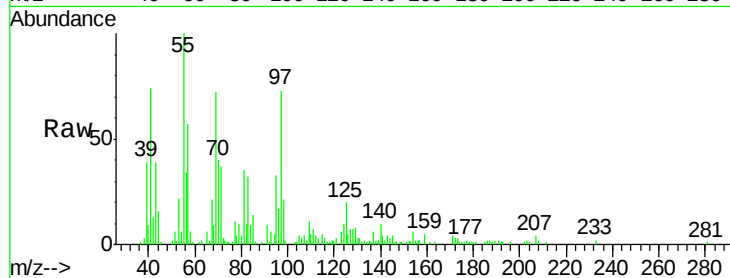
Tot Ion: 83 Resp: 3296

Ion Ratio Lower Upper

83 100

131 9.5 4.9 14.6

85 43.5 32.8 98.4



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.55 min Scan# 1219

Delta R.T. 0.00 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

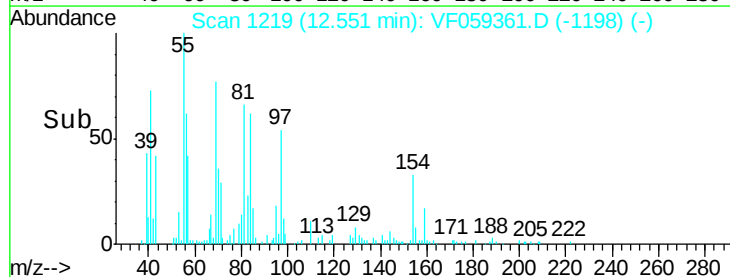
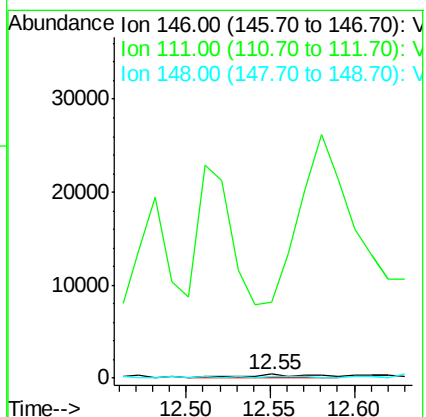
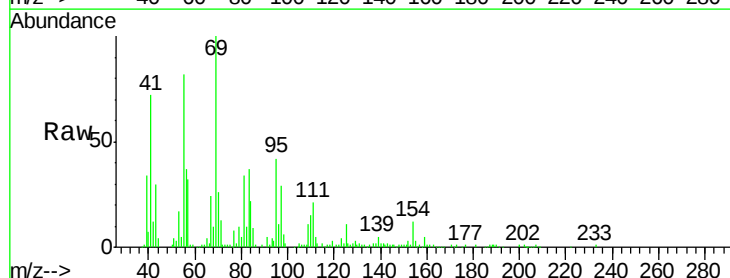
Tgt Ion:146 Resp: 1266

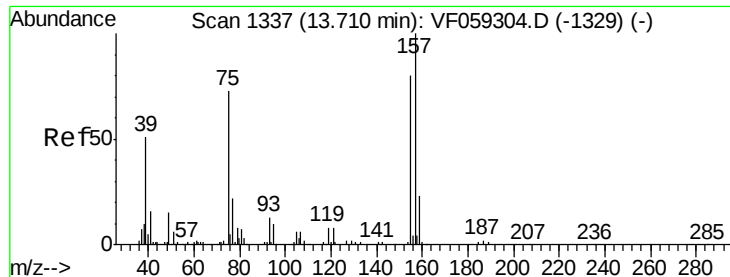
Ion Ratio Lower Upper

146 100

111 2046.4 21.4 64.2#

148 60.6 32.8 98.4





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.525 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-B

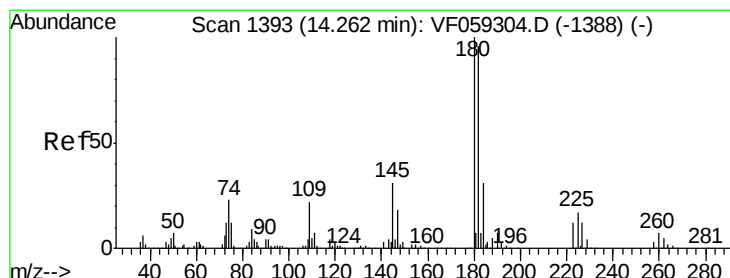
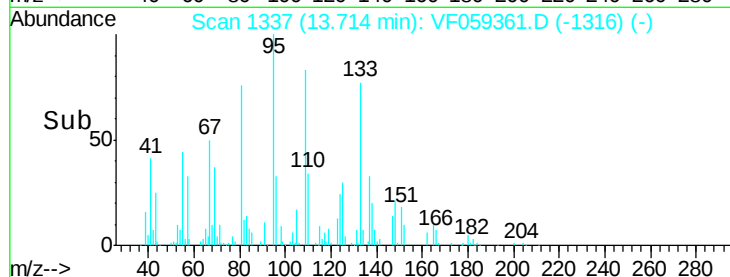
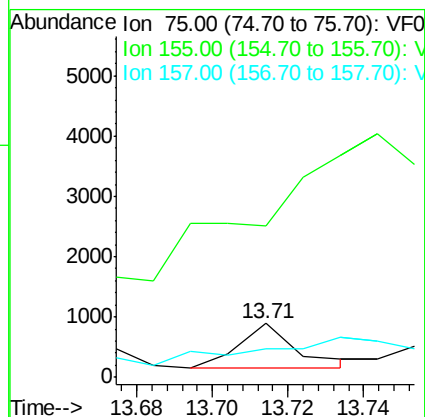
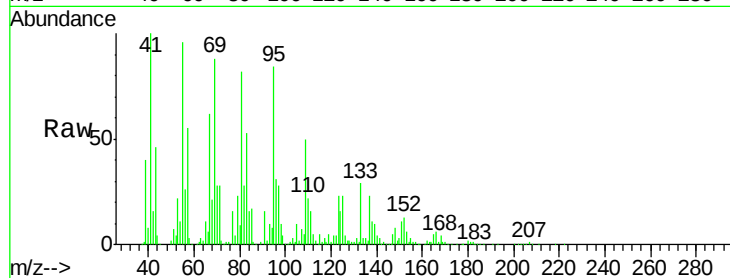
Tot Ion: 75 Resp: 750

Ion Ratio Lower Upper

75 100

155 282.1 54.6 163.8#

157 53.6 68.7 205.9#



#93

1,2,4-Trichlorobenzene

Concen: 2.536 ug/l

RT: 14.28 min Scan# 1394

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

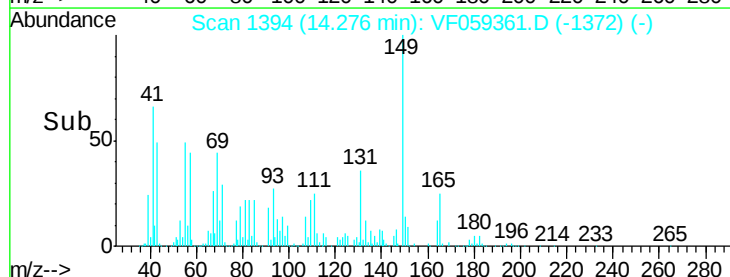
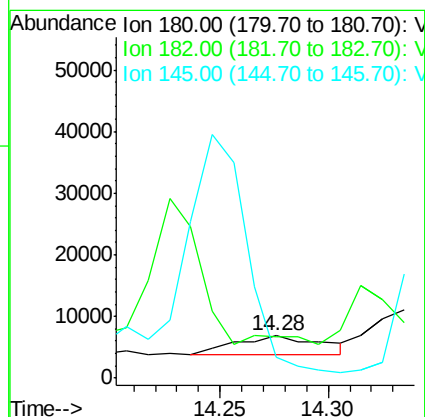
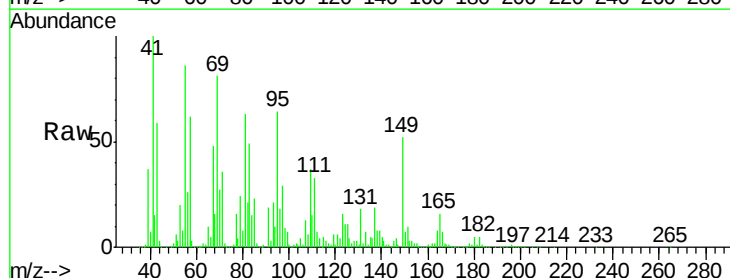
Tgt Ion: 180 Resp: 8297

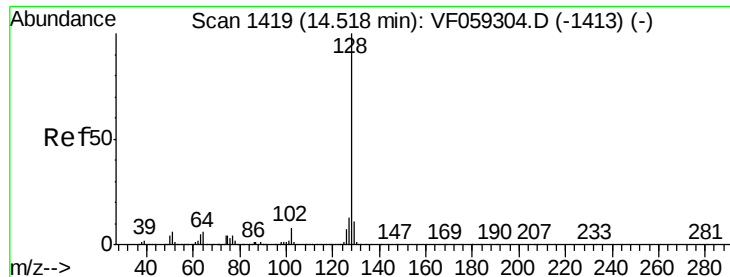
Ion Ratio Lower Upper

180 100

182 98.5 48.1 144.3

145 50.0 15.3 45.8#





#95

Naphthalene

Concen: 2.116 ug/l

RT: 14.53 min Scan# 1420

Delta R.T. 0.01 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

Instrument :

MSVOA_F

ClientSampleId :

JC-02-062618-B

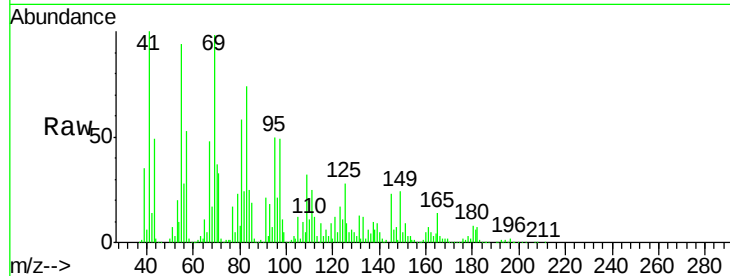
Tot Ion:128 Resp: 14486

Ion Ratio Lower Upper

128 100

127 73.4 10.1 15.1#

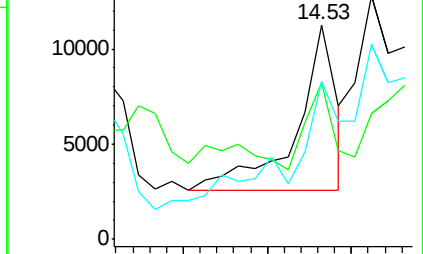
129 73.7 8.8 13.2#



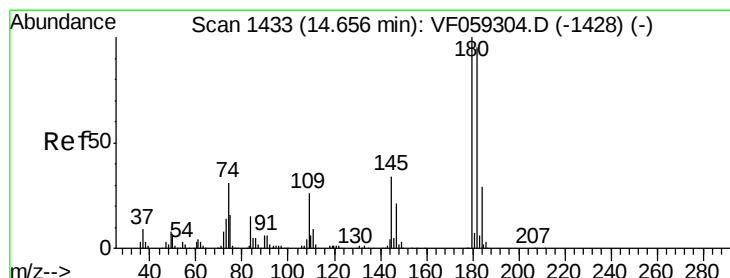
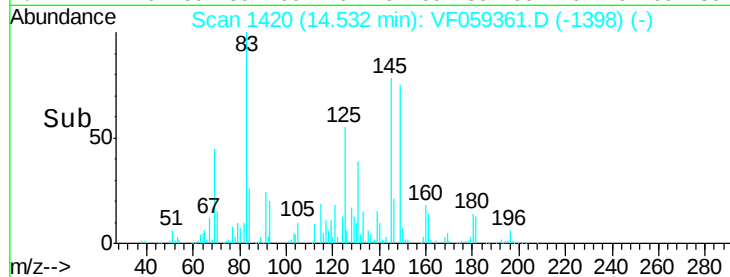
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 15.273 ug/l

RT: 14.61 min Scan# 1428

Delta R.T. -0.05 min

Lab File: VF059361.D

Acq: 28 Jun 2018 15:33

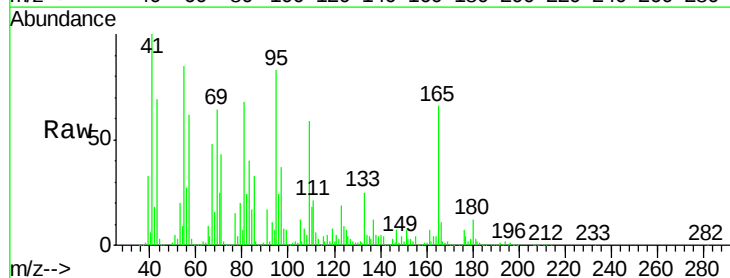
Tgt Ion:180 Resp: 47331

Ion Ratio Lower Upper

180 100

182 18.6 47.5 142.5#

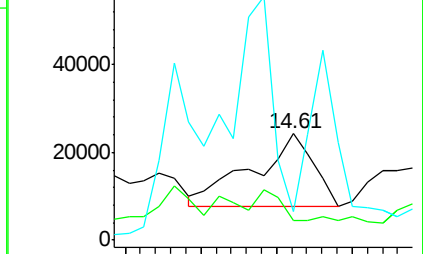
145 27.0 17.0 50.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



Time-->

