

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021219\
 Data File : VF061617.D
 Acq On : 12 Feb 2019 19:08
 Operator : VA/AP
 Sample : K1343-21
 Misc : 7.67g/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-K

Quant Time: Feb 13 02:51:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-4.86
34) 1,4-Difluorobenzene	5.61	114	64	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.69	117	86	50.00	ug/l	-0.08
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.55

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.81	65	60	0.00	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0	0.00	ug/l	
Spiked Amount 50.000			Recovery	=	0.00%	

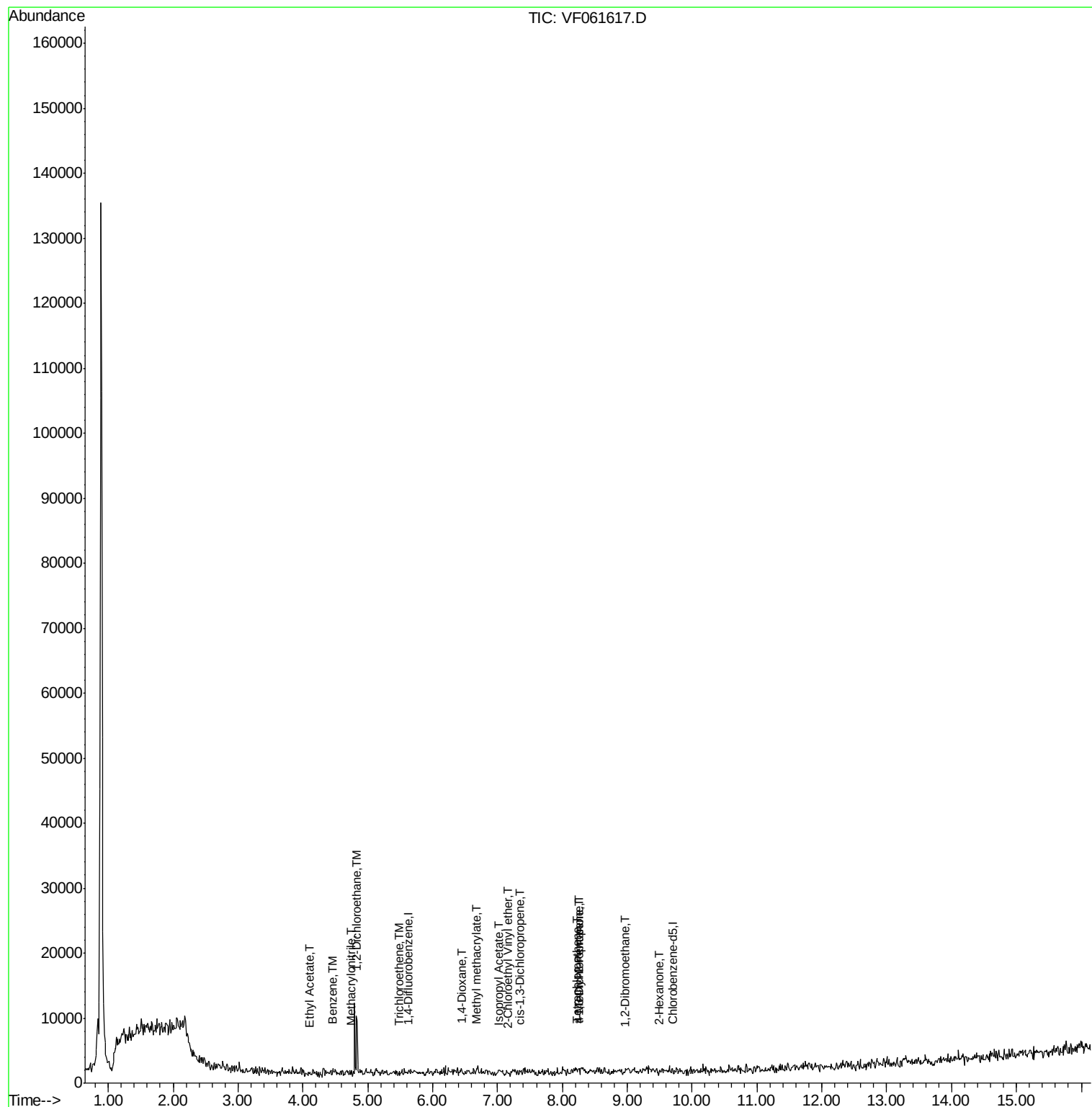
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
37) Ethyl Acetate	4.11	43	63	212.392	ug/l #	5
40) Benzene	4.47	78	64	38.760	ug/l #	52
41) Methacrylonitrile	4.76	41	91	576.558	ug/l #	35
42) 1,2-Dichloroethane	4.81	62	74	125.767	ug/l	76
43) Isopropyl Acetate	7.00	43	76	204.147	ug/l #	51
44) Trichloroethene	5.49	130	72	142.145	ug/l	1
48) Methyl methacrylate	6.68	41	113	452.023	ug/l #	19
49) 1,4-Dioxane	6.44	88	61	37489.534	ug/l #	13
51) 4-Methyl-2-Pentanone	8.25	43	99	361.730	ug/l #	39
53) t-1,3-Dichloropropene	8.25	75	69	121.881	ug/l #	44
54) cis-1,3-Dichloropropene	7.34	75	62	87.615	ug/l #	28
58) 2-Chloroethyl Vinyl ether	7.16	63	93	2224.519	ug/l #	47
59) 2-Hexanone	9.50	43	404	2116.894	ug/l #	26
61) 1,2-Dibromoethane	8.96	107	64	181.053	ug/l #	5
64) Tetrachloroethene	8.22	164	76	117.514	ug/l #	1

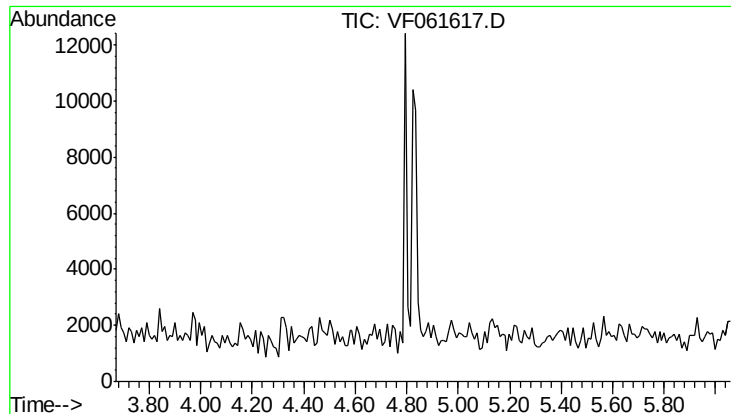
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 4.86 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

MSVOA_F

ClientSampleId :

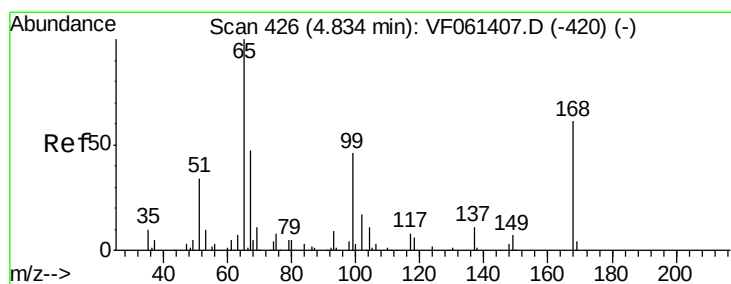
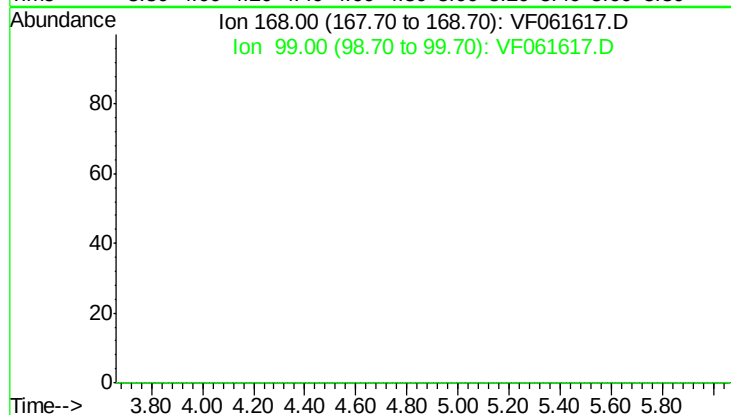
JC-02-021119-K

Tot Ion: 168

Sig Exp Ratio

168 100

99 66.9



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.81 min Scan# 423

Delta R.T. -0.03 min

Lab File: VF061617.D

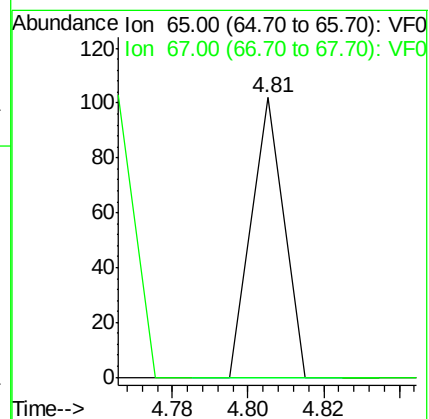
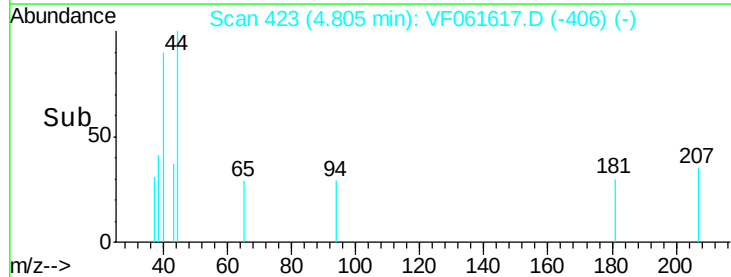
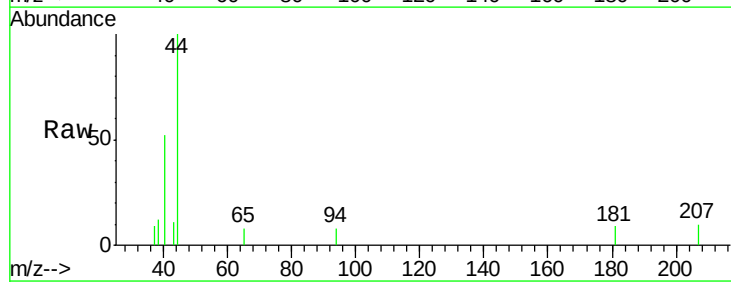
Acq: 12 Feb 2019 19:08

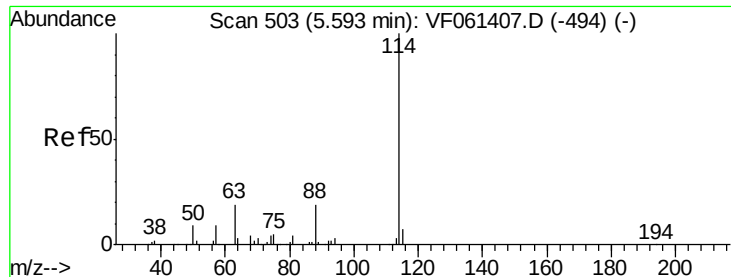
Tgt Ion: 65 Resp: 60

Ion Ratio Lower Upper

65 100

67 0.0 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.02 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-K

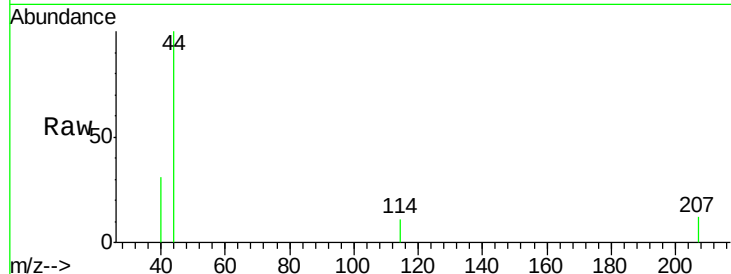
Tot Ion:114 Resp: 64

Ion Ratio Lower Upper

114 100

63 0.0 0.0 39.0

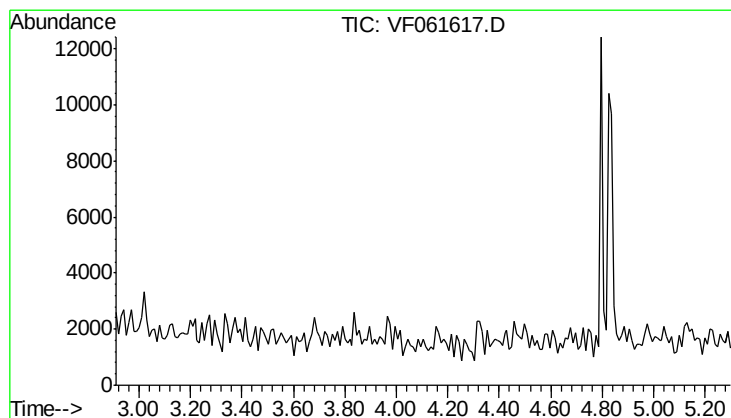
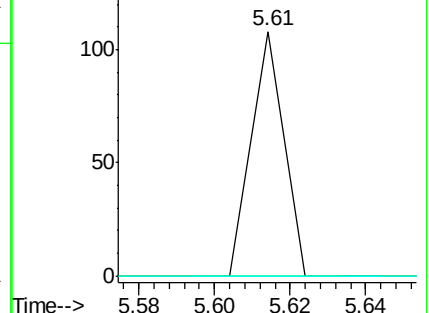
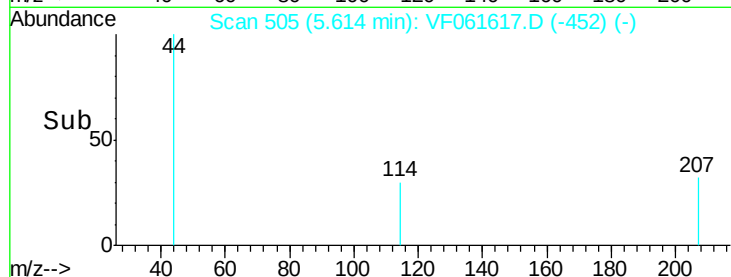
88 0.0 0.0 37.4



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



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.10 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

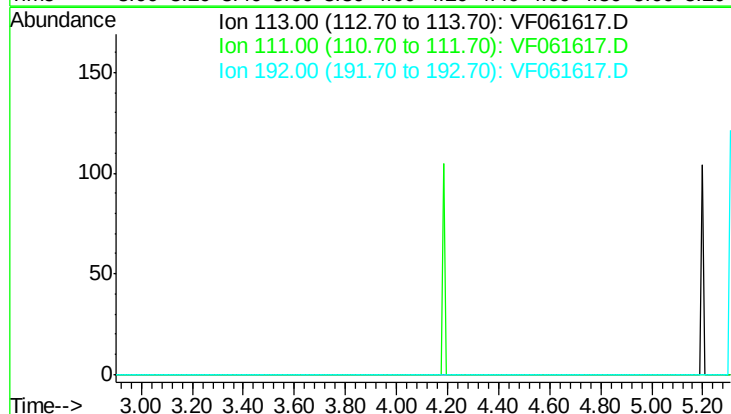
Tgt Ion: 113

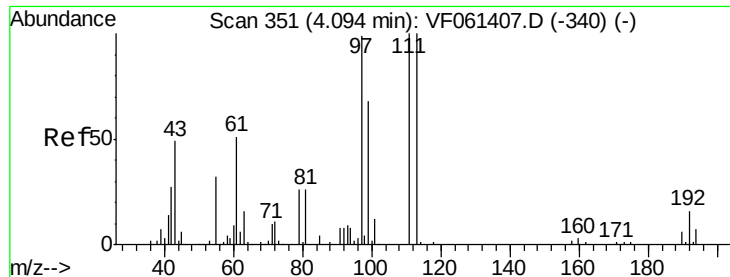
Sig Exp Ratio

113 100

111 99.2

192 15.5





#37

Ethyl Acetate

Concen: 212.392 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.02 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-K

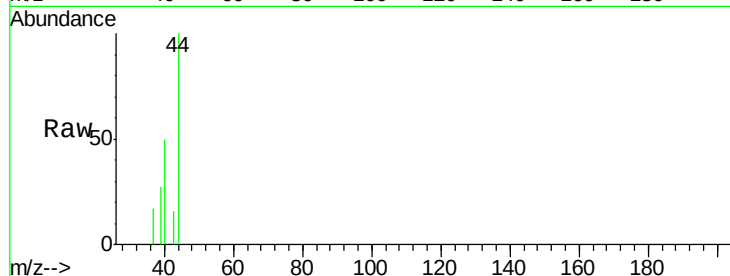
Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

61 0.0 81.7 122.5#

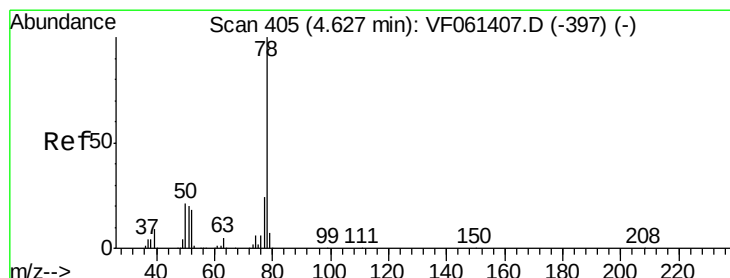
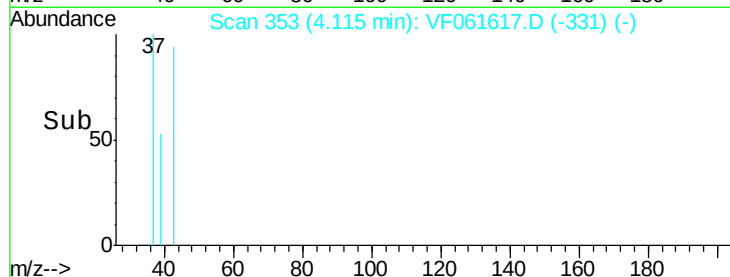
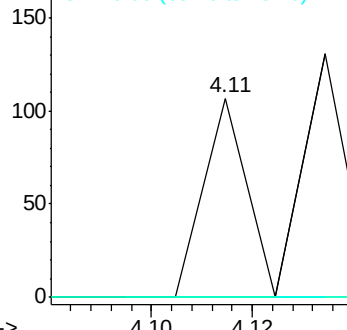
70 0.0 6.2 9.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



#40

Benzene

Concen: 38.760 ug/l

RT: 4.47 min Scan# 389

Delta R.T. -0.16 min

Lab File: VF061617.D

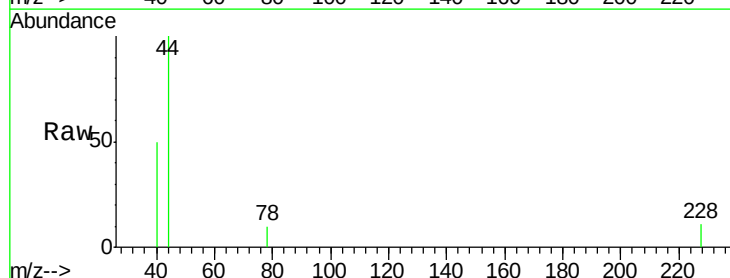
Acq: 12 Feb 2019 19:08

Tgt Ion: 78 Resp: 64

Ion Ratio Lower Upper

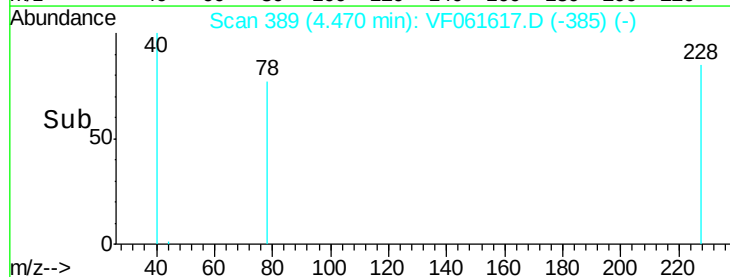
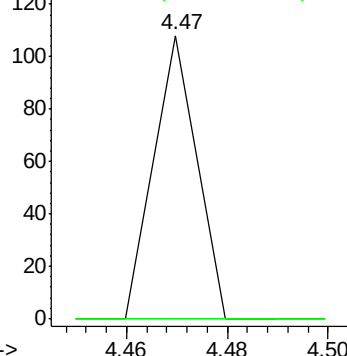
78 100

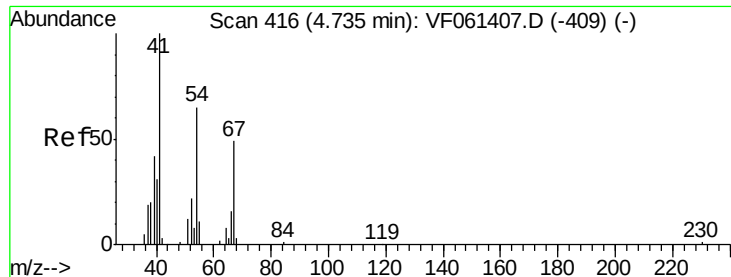
77 0.0 19.0 28.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

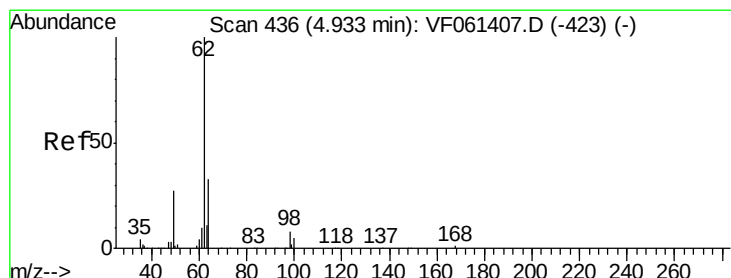
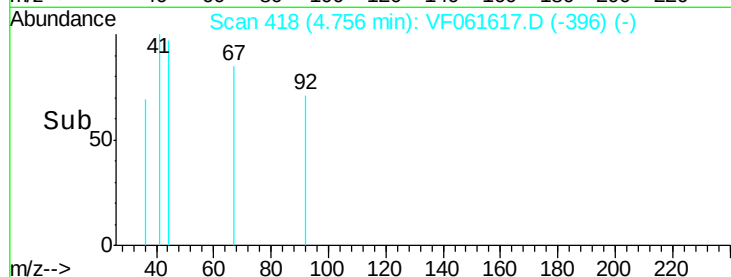
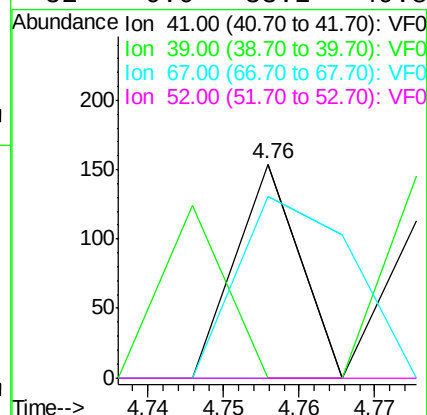
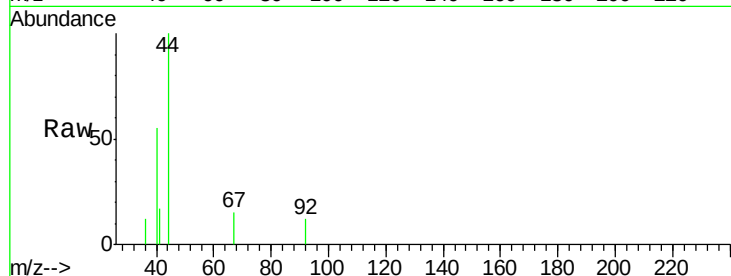




#41
Methacrylonitrile
Concen: 576.558 ug/l
RT: 4.76 min Scan# 418
Delta R.T. 0.02 min
Lab File: VF061617.D
Acq: 12 Feb 2019 19:08

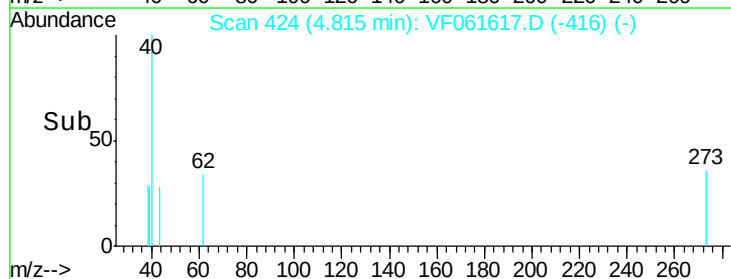
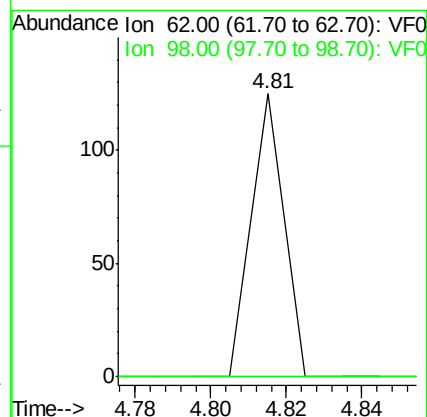
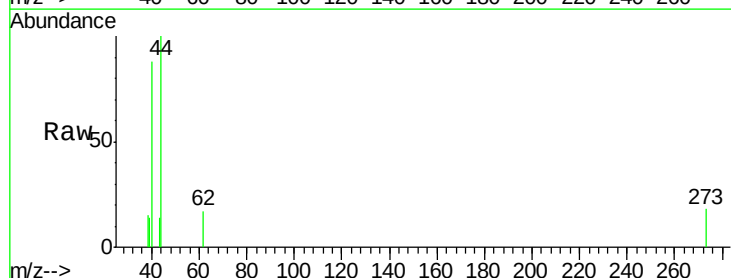
Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-K

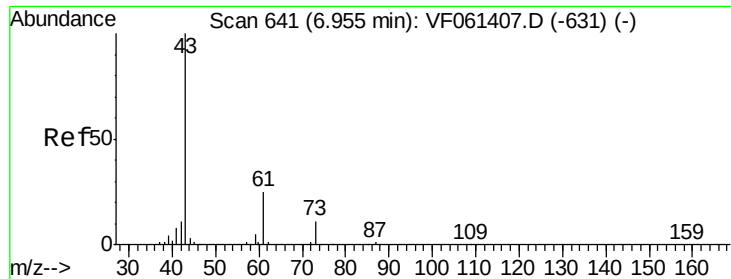
Tot Ion:	41	Resp:	91
Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.1	64.7#
67	85.1	38.8	58.2#
52	0.0	33.2	49.8#



#42
1,2-Dichloroethane
Concen: 125.767 ug/l
RT: 4.81 min Scan# 424
Delta R.T. -0.12 min
Lab File: VF061617.D
Acq: 12 Feb 2019 19:08

Tgt Ion:	62	Resp:	74
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0





#43

Isopropyl Acetate

Concen: 204.147 ug/l

RT: 7.00 min Scan# 646

Delta R.T. 0.05 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

MSVOA_F

ClientSampleId :

JC-02-021119-K

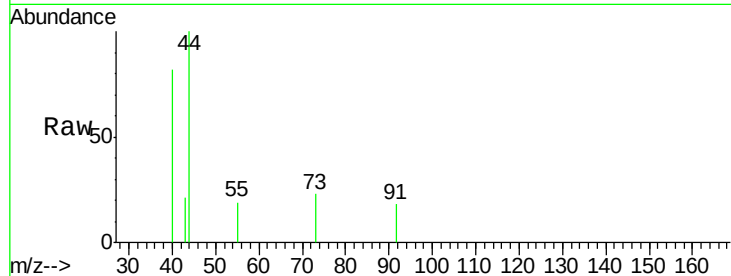
Tot Ion: 43 Resp: 76

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

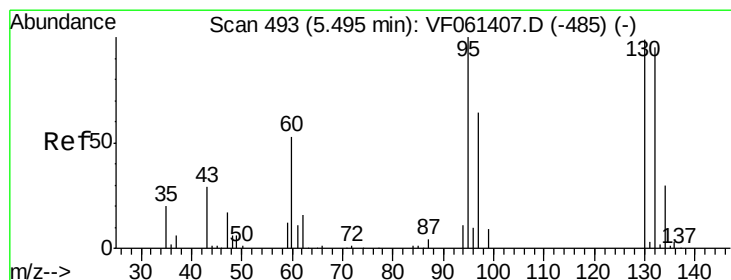
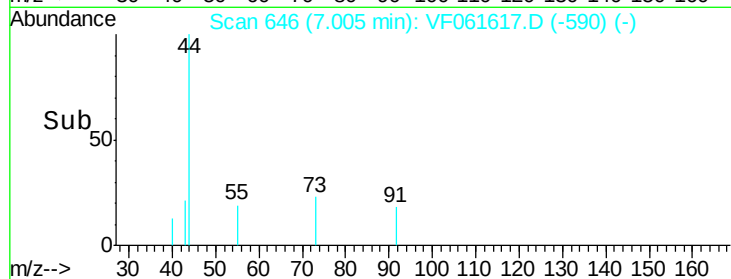
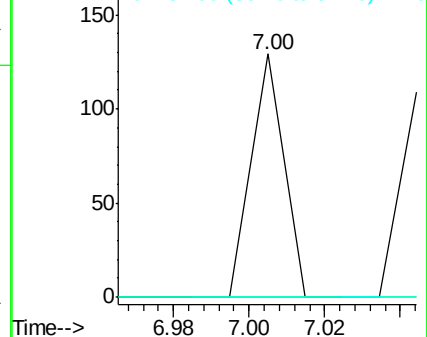
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 142.145 ug/l

RT: 5.49 min Scan# 492

Delta R.T. -0.01 min

Lab File: VF061617.D

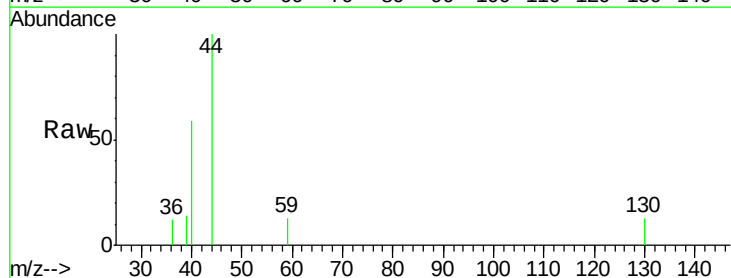
Acq: 12 Feb 2019 19:08

Tgt Ion: 130 Resp: 72

Ion Ratio Lower Upper

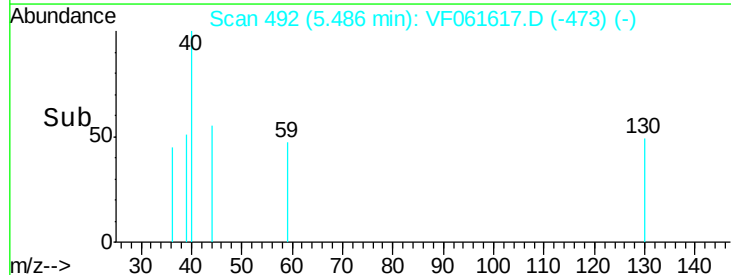
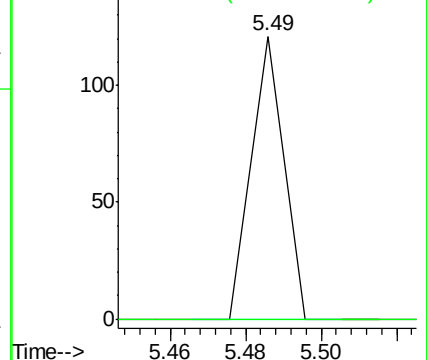
130 100

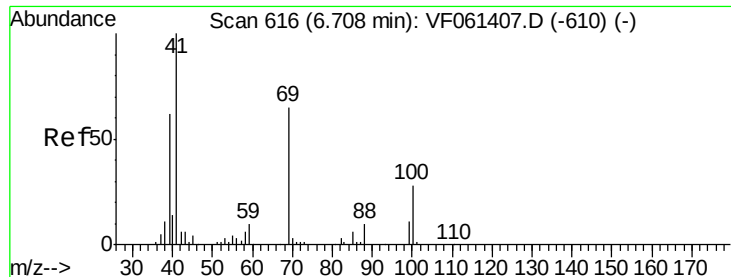
95 0.0 0.0 202.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#48

Methvl methacrylate

Concen: 452.023 ug/l

RT: 6.68 min Scan# 613

Delta R.T. -0.03 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

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ClientSampleId :

JC-02-021119-K

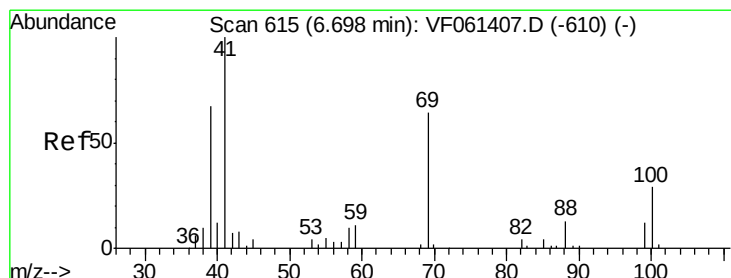
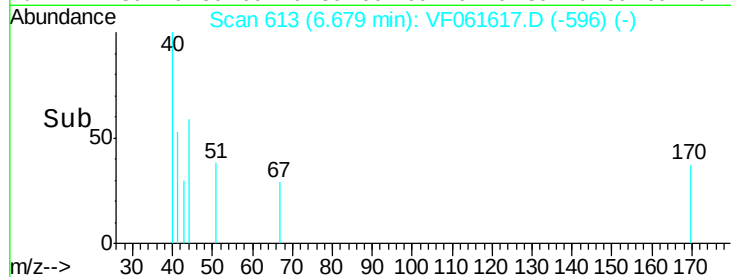
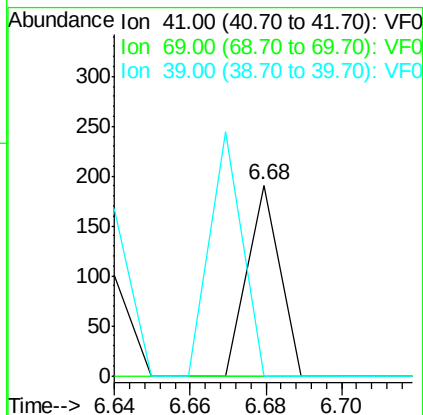
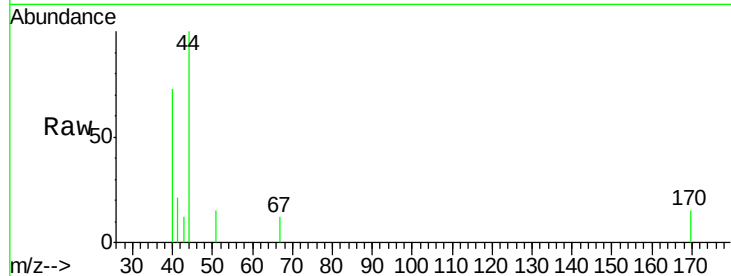
Tot Ion: 41 Resp: 113

Ion Ratio Lower Upper

41 100

69 0.0 51.7 77.5#

39 0.0 49.2 73.8#



#49

1,4-Dioxane

Concen: 37489.534 ug/l

RT: 6.44 min Scan# 589

Delta R.T. -0.26 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

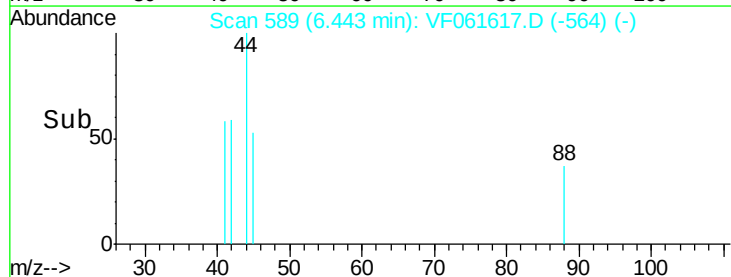
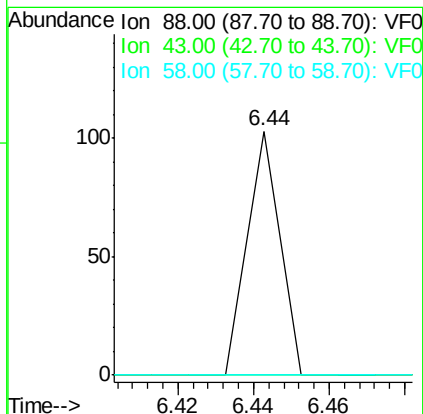
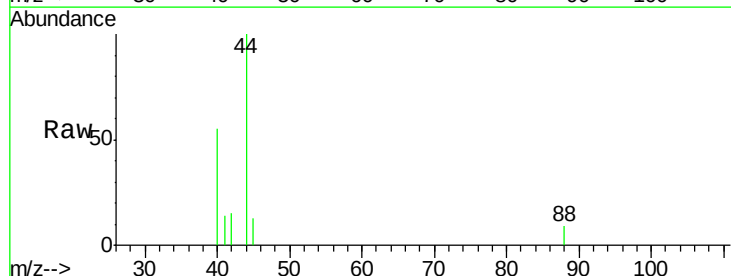
Tgt Ion: 88 Resp: 61

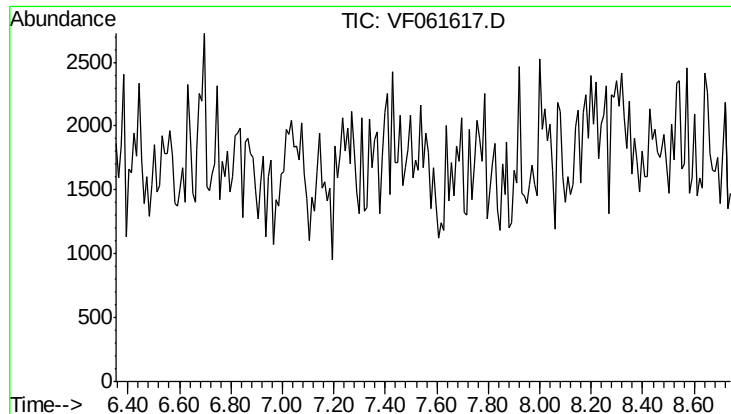
Ion Ratio Lower Upper

88 100

43 0.0 55.5 83.3#

58 0.0 59.9 89.9#



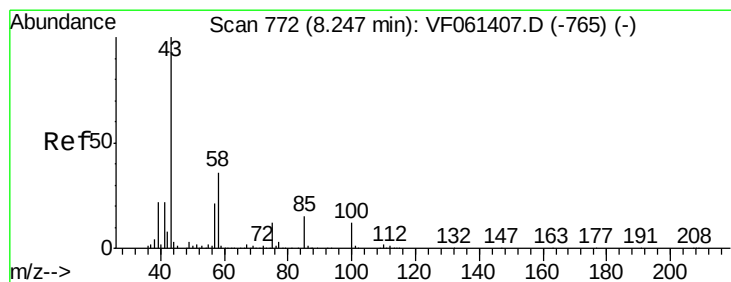
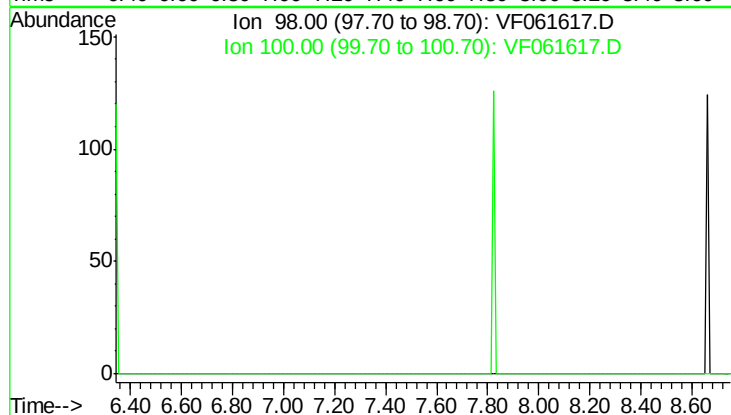


#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.55 min

Lab File: VF061617.D
Acq: 12 Feb 2019 19:08

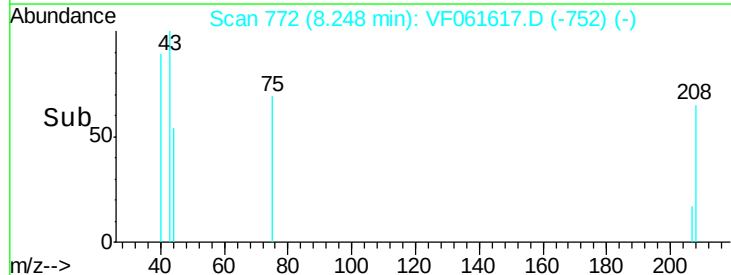
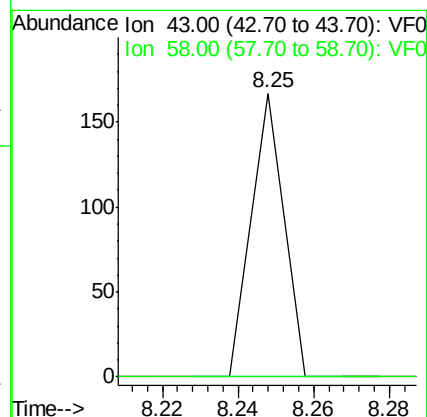
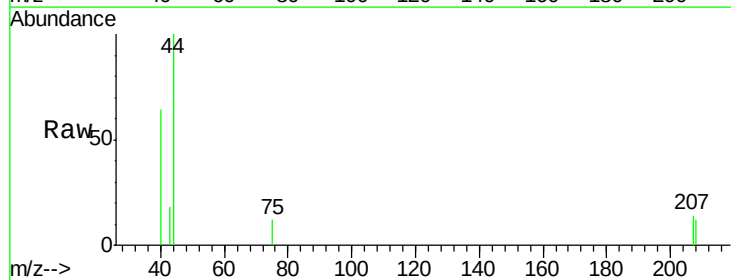
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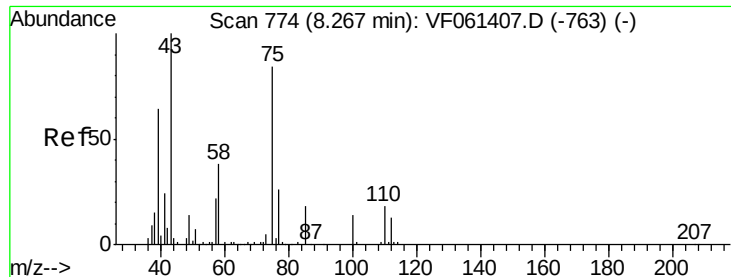
Tot Ion: 98
Sig Exp Ratio
98 100
100 69.5



#51
4-Methyl-2-Pentanone
Concen: 361.730 ug/l
RT: 8.25 min Scan# 772
Delta R.T. 0.00 min
Lab File: VF061617.D
Acq: 12 Feb 2019 19:08

Tgt Ion: 43 Resp: 99
Ion Ratio Lower Upper
43 100
58 0.0 28.8 43.2#





#53

t-1,3-Dichloropropene

Concen: 121.881 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

MSVOA_F

ClientSampleId :

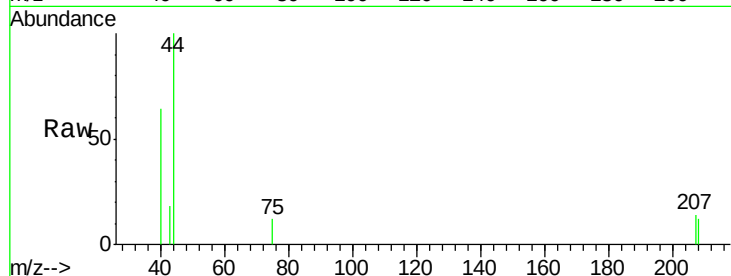
JC-02-021119-K

Tot Ion: 75 Resp: 69

Ion Ratio Lower Upper

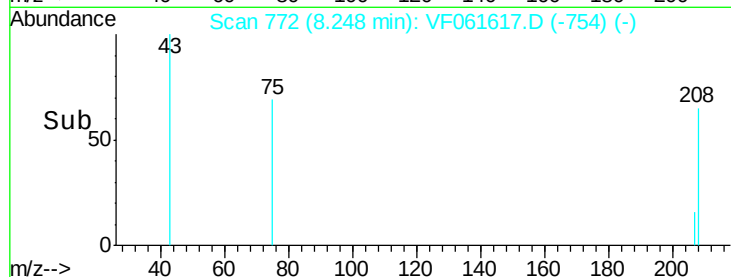
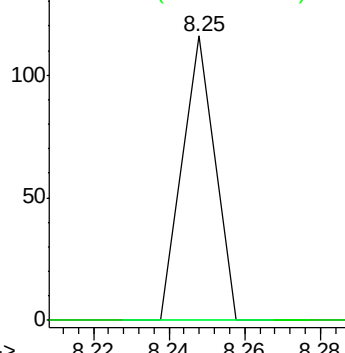
75 100

77 0.0 24.4 36.6#

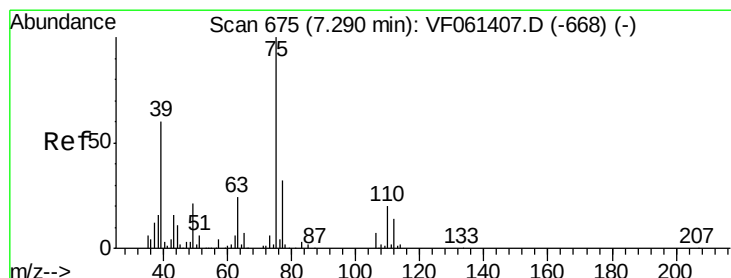


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 87.615 ug/l

RT: 7.34 min Scan# 680

Delta R.T. 0.05 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

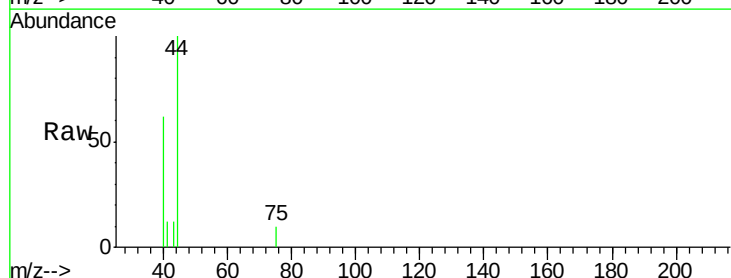
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

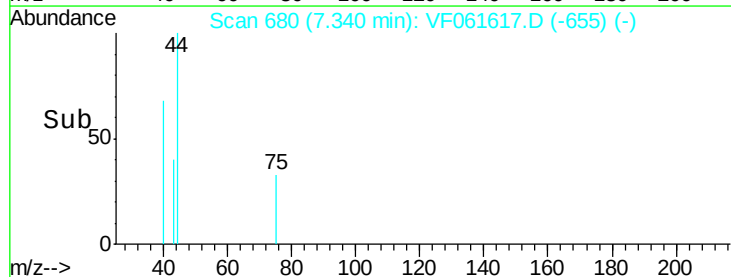
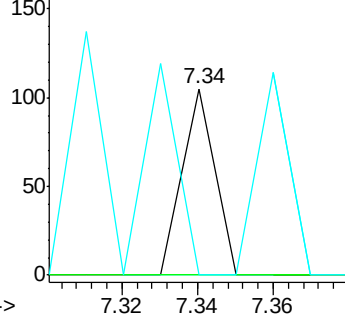
39 0.0 47.8 71.8#



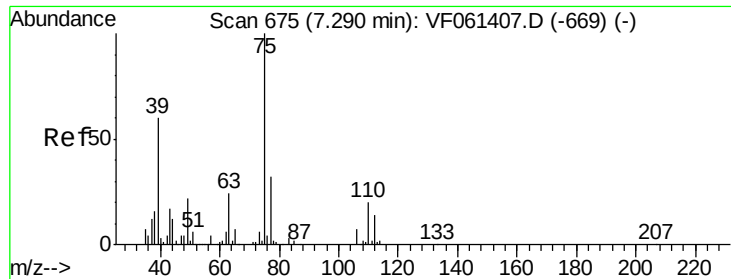
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 2224.519 ug/l

RT: 7.16 min Scan# 662

Delta R.T. -0.13 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

MSVOA_F

ClientSampleId :

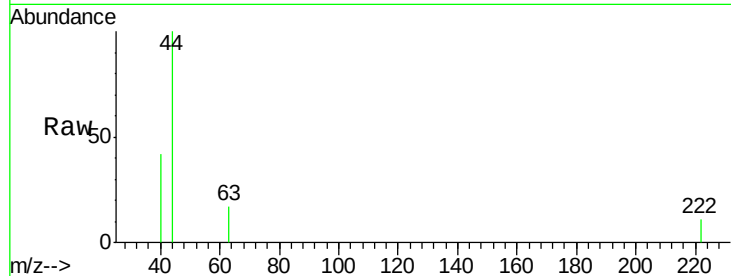
JC-02-021119-K

Tot Ion: 63 Resp: 93

Ion Ratio Lower Upper

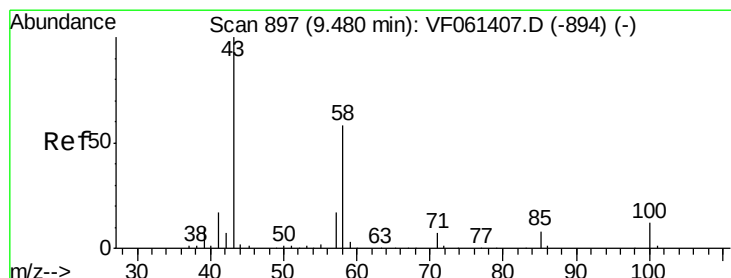
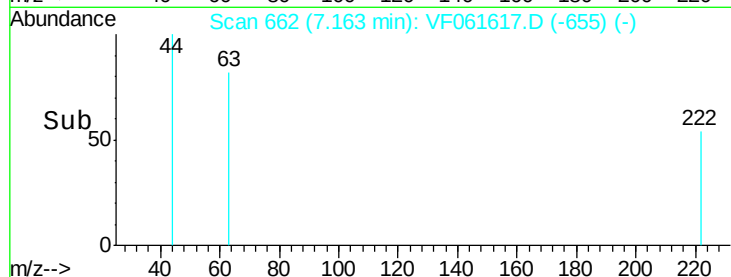
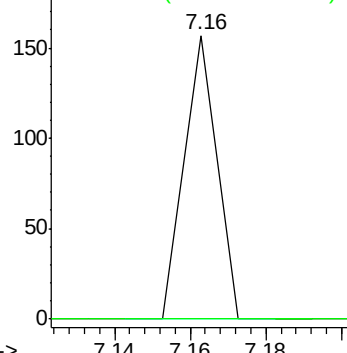
63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: 2116.894 ug/l

RT: 9.50 min Scan# 899

Delta R.T. 0.02 min

Lab File: VF061617.D

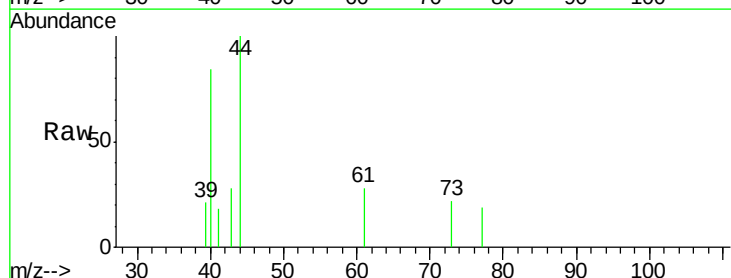
Acq: 12 Feb 2019 19:08

Tgt Ion: 43 Resp: 404

Ion Ratio Lower Upper

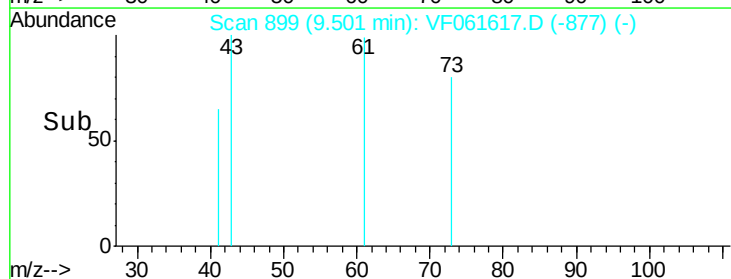
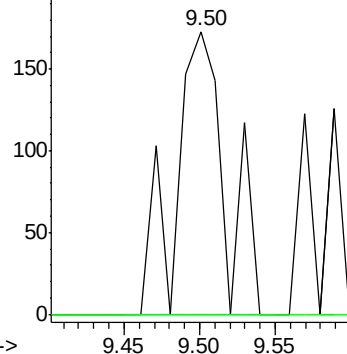
43 100

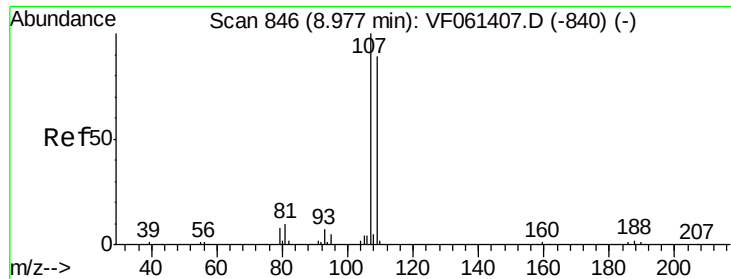
58 0.0 25.9 77.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#61

1,2-Dibromoethane

Concen: 181.053 ug/l

RT: 8.96 min Scan# 844

Delta R.T. -0.02 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

Instrument :

MSVOA_F

ClientSampleId :

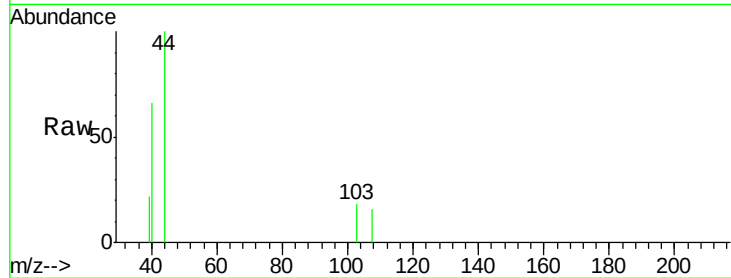
JC-02-021119-K

Tot Ion:107 Resp: 64

Ion Ratio Lower Upper

107 100

109 0.0 70.8 106.2#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.96

100

80

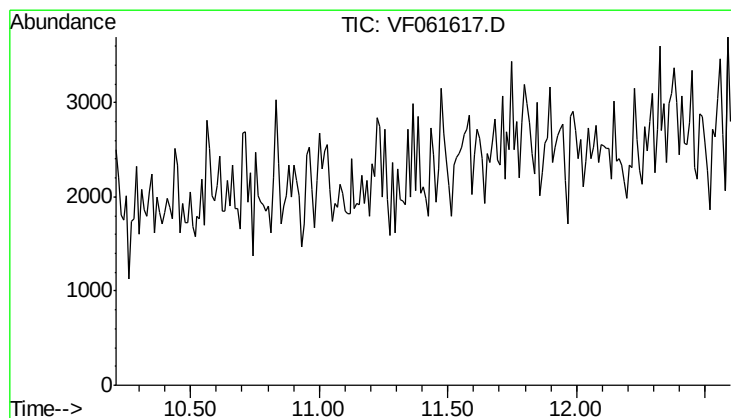
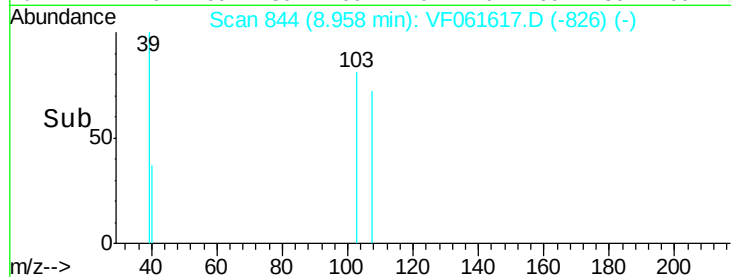
60

40

20

0

Time--> 8.92 8.94 8.96 8.98



#62

4-Bromofluorobenzene

Concen: 0.000 ug/l

Expected RT: 11.40 min

Lab File: VF061617.D

Acq: 12 Feb 2019 19:08

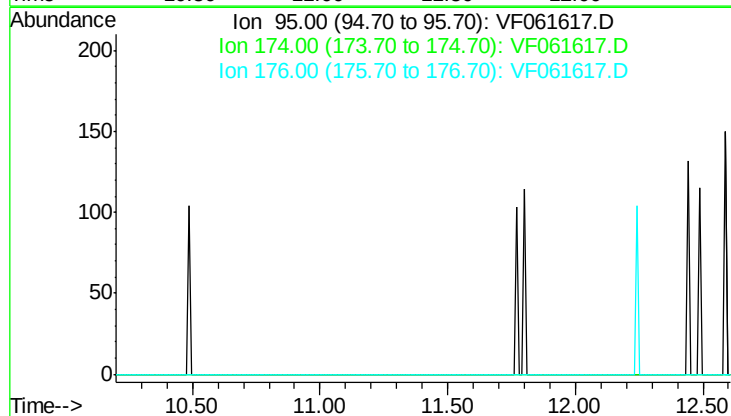
Tgt Ion: 95

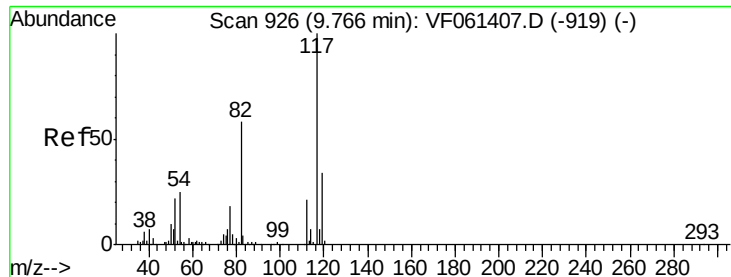
Sig Exp Ratio

95 100

174 65.2

176 63.1

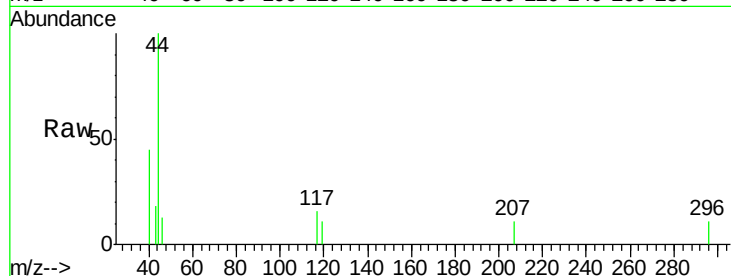




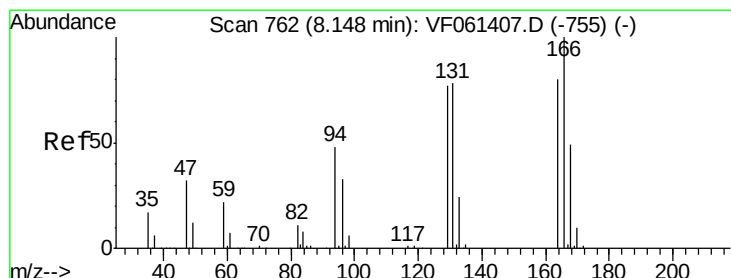
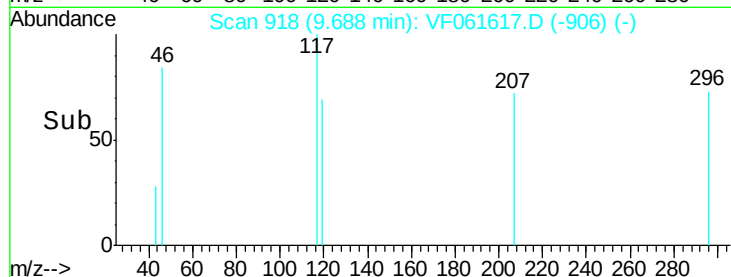
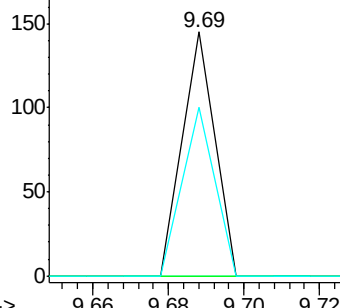
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.69 min Scan# 918
Delta R.T. -0.08 min
Lab File: VF061617.D
Acq: 12 Feb 2019 19:08

Instrument :
MSVOA_F
ClientSampleId :
JC-02-021119-K

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	46.4	69.6#
119	69.0	27.2	40.8#

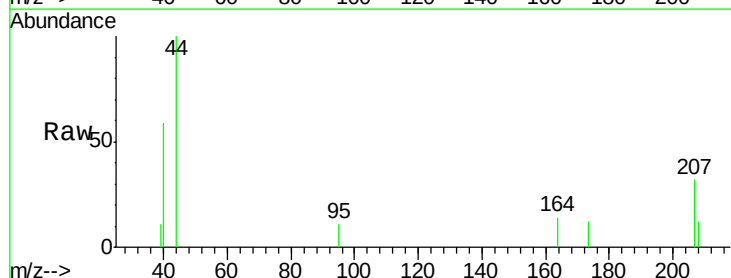


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

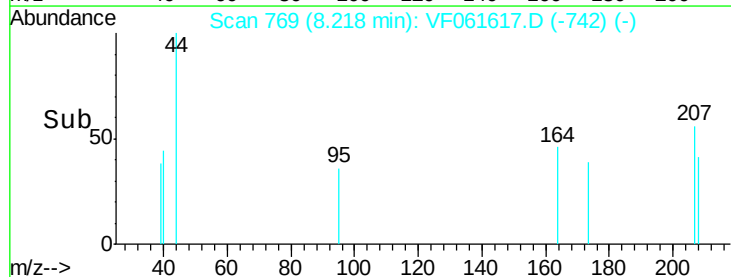
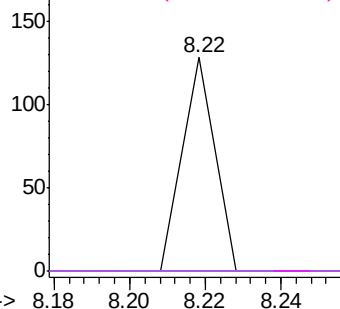


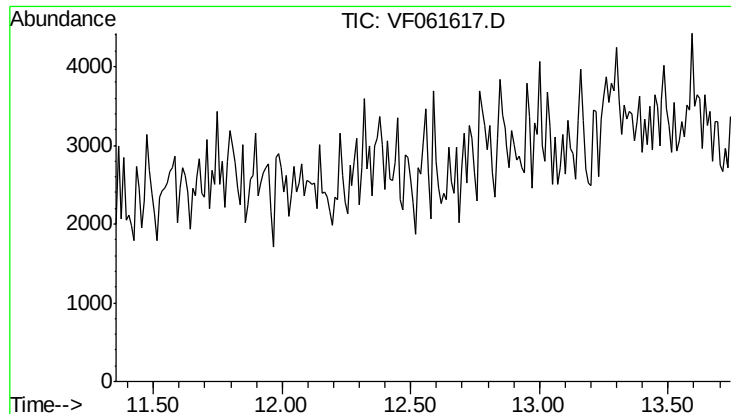
#64
Tetrachloroethene
Concen: 117.514 ug/l
RT: 8.22 min Scan# 769
Delta R.T. 0.07 min
Lab File: VF061617.D
Acq: 12 Feb 2019 19:08

Tgt Ion	Ratio	Lower	Upper
164	100		
166	0.0	99.6	149.4#
129	0.0	76.4	114.6#
131	0.0	77.9	116.9#



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#72
 1,4-Dichlorobenzene-d4
 Concen: 0.000 ug/l
 Expected RT: 12.55 min
 Lab File: VF061617.D
 Acq: 12 Feb 2019 19:08

Instrument :
 MSVOA_F
 ClientSampleId :
 JC-02-021119-K

Tot Ion	Exp Ratio
152	100
115	60.0
150	160.7

