

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110218\
 Data File : VX005752.D
 Acq On : 02 Nov 2018 13:21
 Operator : JC/MD
 Sample : PB114401ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#03

Quant Time: Nov 03 01:26:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	112891	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	197194	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	170582	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	72032	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	87190	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	
35) Dibromofluoromethane	5.51	113	67856	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
50) Toluene-d8	8.71	98	236489	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
62) 4-Bromofluorobenzene	11.14	95	73757	41.73	ug/l	0.00
Spiked Amount			Recovery	=	83.46%	

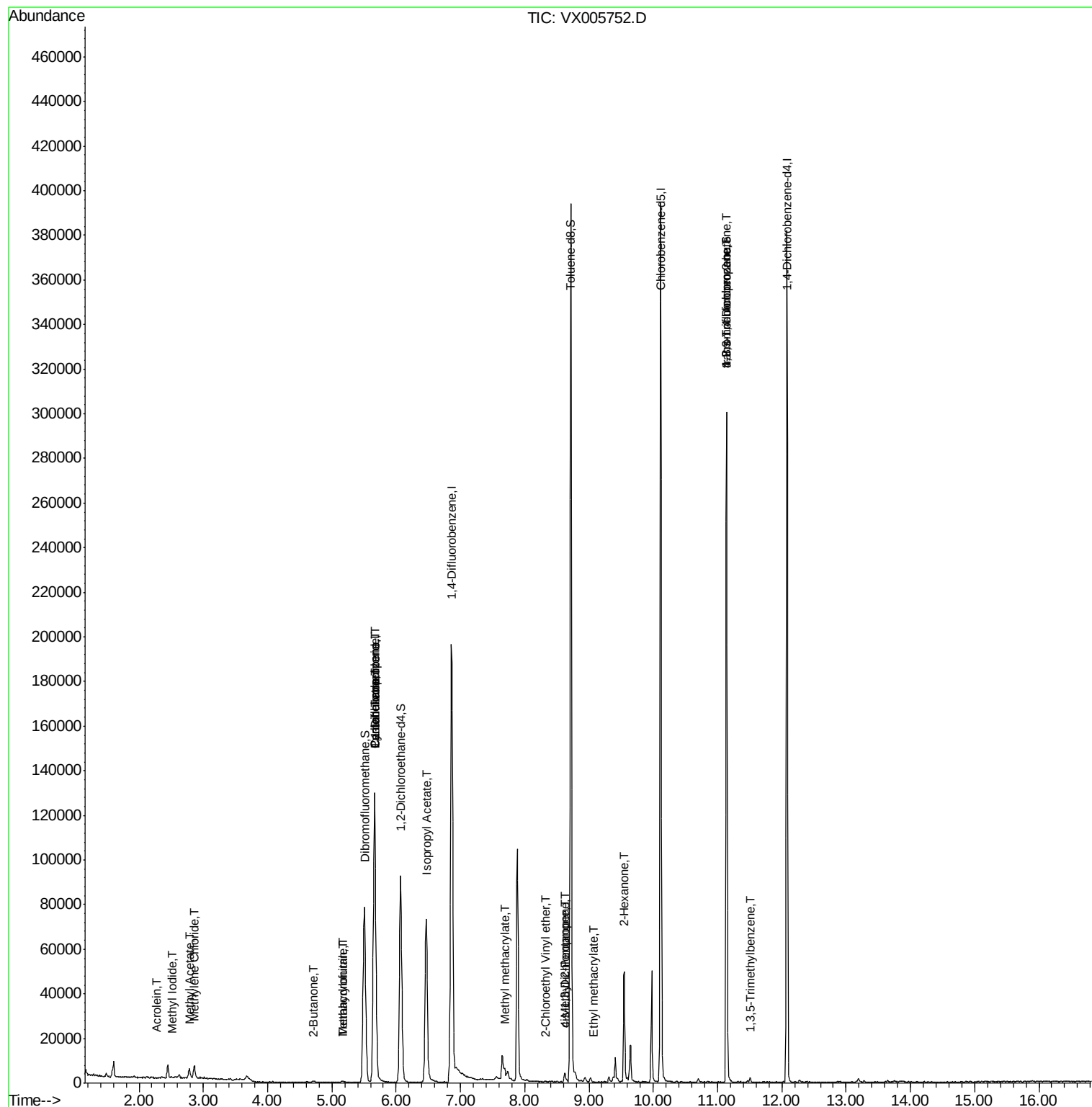
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.75	64	406	Below Cal	#	42
10) Methyl Iodide	2.52	142	49	1.979	ug/l #	39
13) Acrolein	2.28	56	33	12.281	ug/l #	1
16) Acetone	2.45	43	5865	Below Cal		98
18) Methyl Acetate	2.78	43	5202	2.196	ug/l	94
20) Methylene Chloride	2.86	84	2276	1.599	ug/l	89
25) 2-Butanone	4.71	43	1117	0.802	ug/l	98
29) Tetrahydrofuran	5.17	42	469	0.552	ug/l #	65
31) Cyclohexane	5.66	56	3138	1.423	ug/l #	19
36) 1,1-Dichloropropene	5.67	75	10116	4.815	ug/l #	48
38) Carbon Tetrachloride	5.67	117	11647	6.136	ug/l #	17
41) Methacrylonitrile	5.16	41	351	0.242	ug/l #	41
43) Isopropyl Acetate	6.47	43	97302	25.011	ug/l	97
48) Methyl methacrylate	7.69	41	4325	2.297	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	1676	0.632	ug/l #	38
54) cis-1,3-Dichloropropene	8.62	75	543	0.244	ug/l #	68
56) Ethyl methacrylate	9.07	69	38	2.485	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.32	63	46	10.369	ug/l #	48
59) 2-Hexanone	9.55	43	5367	2.486	ug/l	65
76) 1,2,3-Trichloropropane	11.14	75	39057	21.770	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.51	105	968	0.240	ug/l	82
81) trans-1,4-Dichloro-2-buten	11.14	75	39057	70.339	ug/l #	9

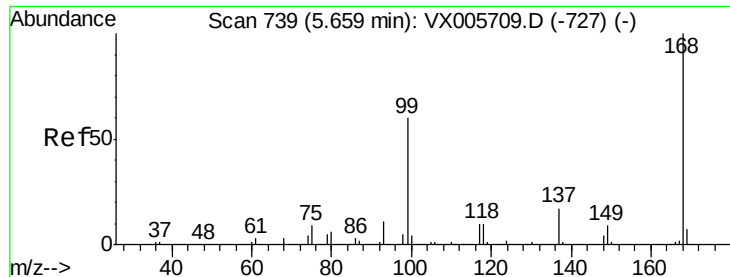
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
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Quant Time: Nov 03 01:26:40 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 31 18:23:06 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

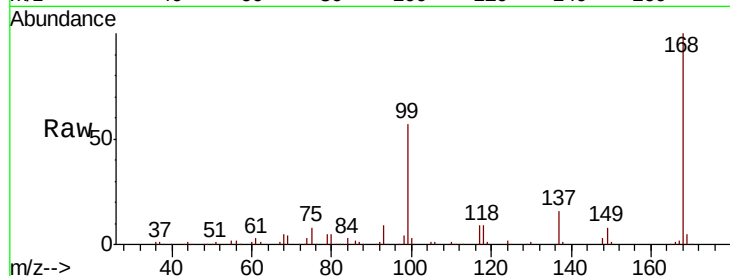
PB114401ZHE#03

Tot Ion:168 Resp: 112891

Ion Ratio Lower Upper

168 100

99 56.9 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

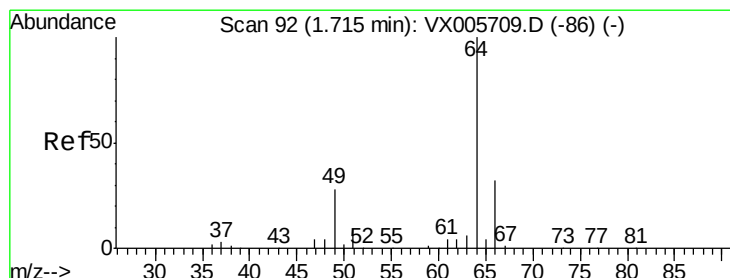
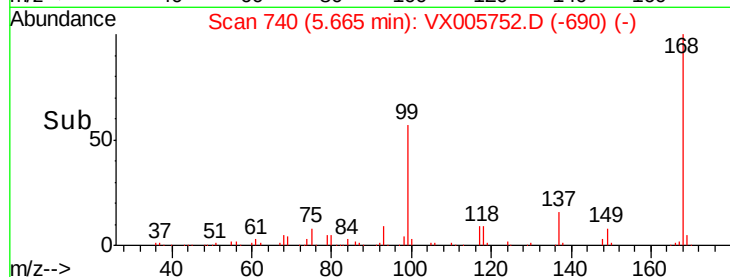
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX005752.D

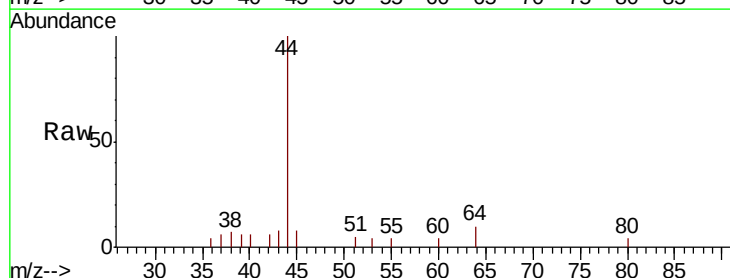
Acq: 02 Nov 2018 13:21

Tgt Ion: 64 Resp: 406

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

200

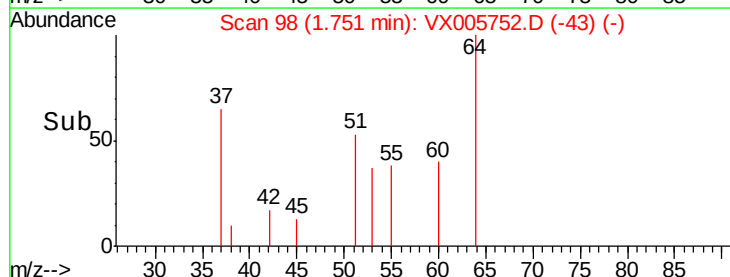
150

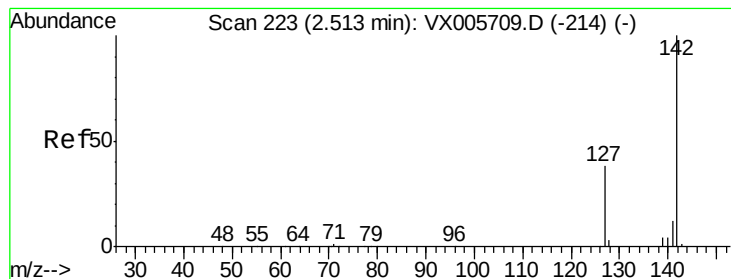
100

50

0

Time--> 1.70 1.75





#10

Methyl Iodide

Concen: 1.979 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#03

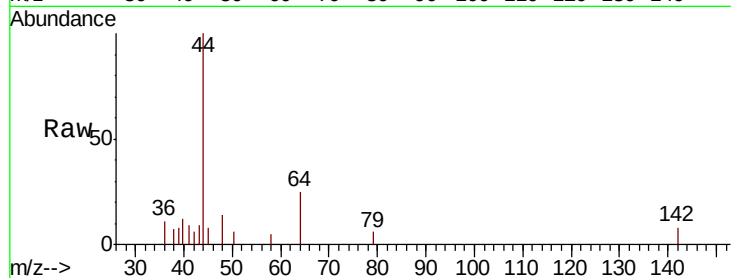
Tot Ion:142 Resp: 49

Ion Ratio Lower Upper

142 100

127 0.0 36.0 54.0#

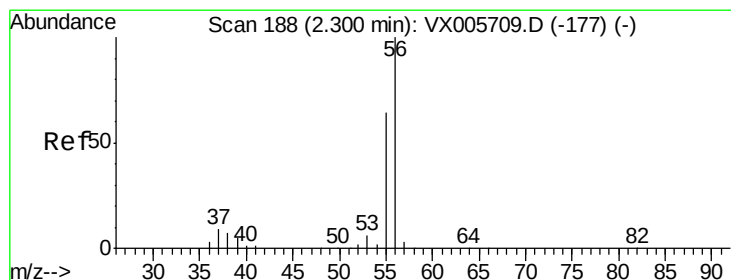
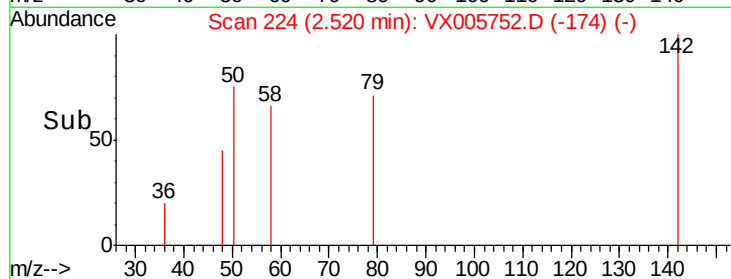
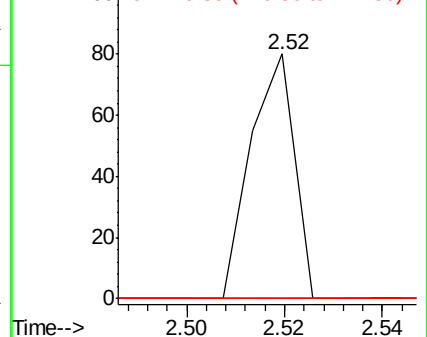
141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#13

Acrolein

Concen: 12.281 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX005752.D

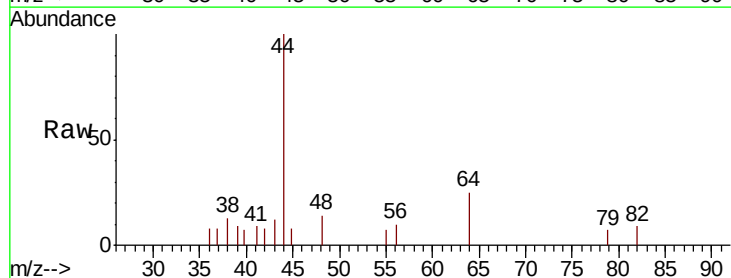
Acq: 02 Nov 2018 13:21

Tgt Ion: 56 Resp: 33

Ion Ratio Lower Upper

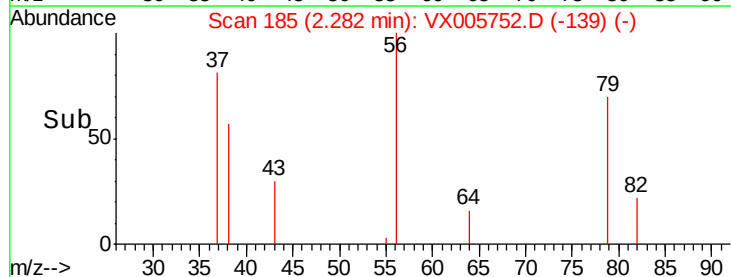
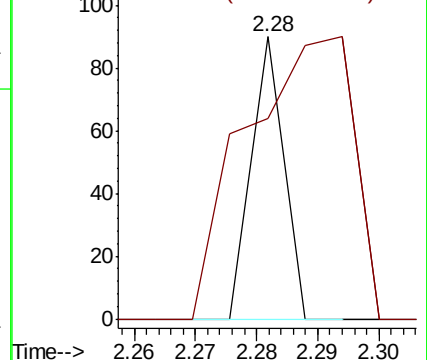
56 100

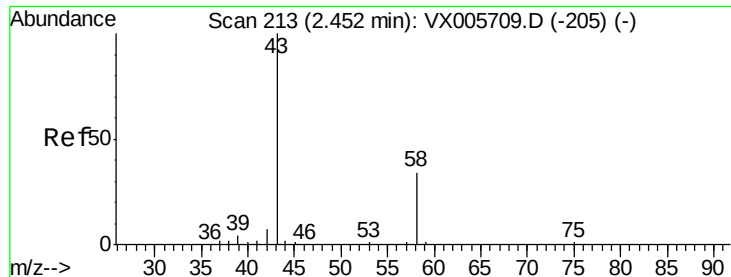
55 333.3 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

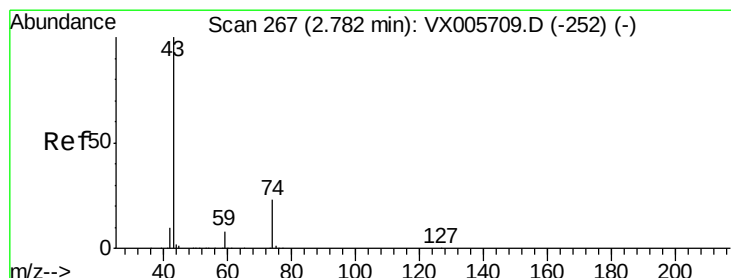
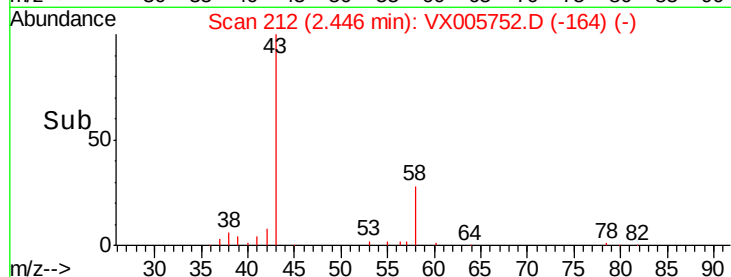
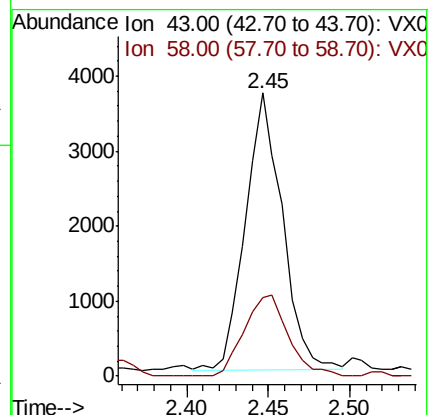
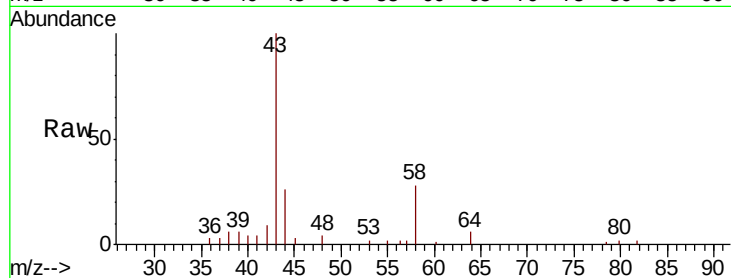
PB114401ZHE#03

Tot Ion: 43 Resp: 5865

Ion Ratio Lower Upper

43 100

58 28.4 23.8 35.6



#18

Methyl Acetate

Concen: 2.196 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005752.D

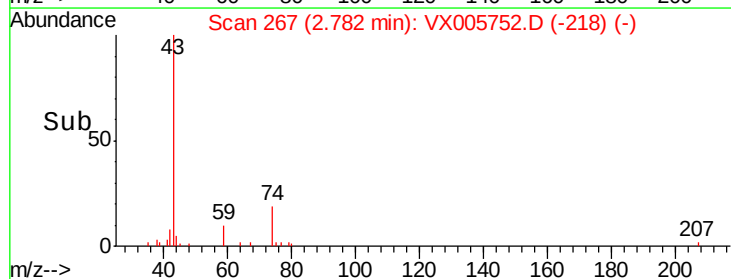
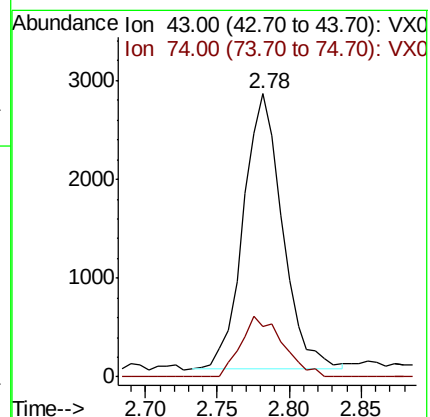
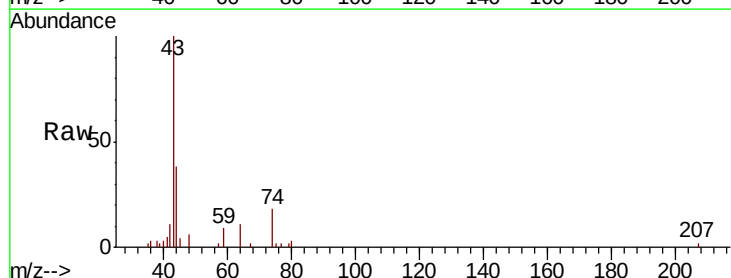
Acq: 02 Nov 2018 13:21

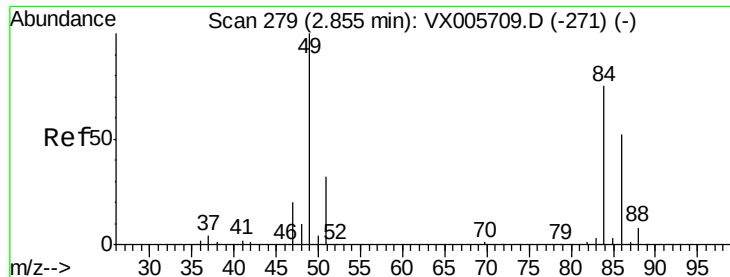
Tgt Ion: 43 Resp: 5202

Ion Ratio Lower Upper

43 100

74 24.0 16.8 25.2

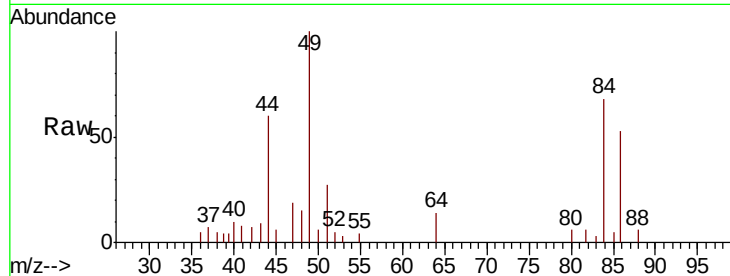




#20
Methvlene Chloride
Concen: 1.599 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005752.D
Acq: 02 Nov 2018 13:21

Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#03

Tot Ion:	84	Resp:	2276
Ion	Ratio	Lower	Upper
84	100		
49	147.3	109.5	164.3
51	34.8	33.3	49.9
86	77.3	52.7	79.1



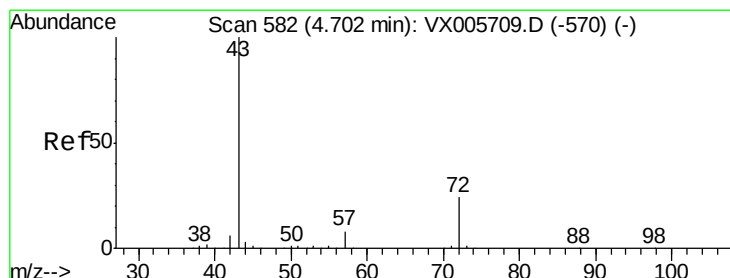
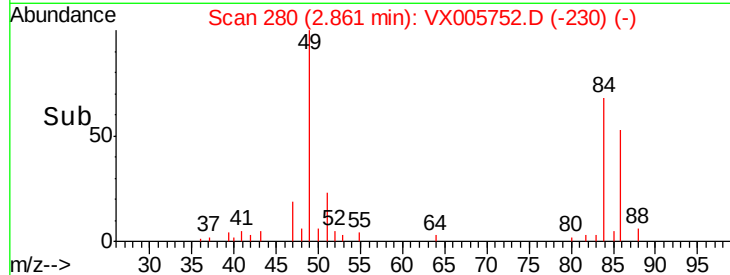
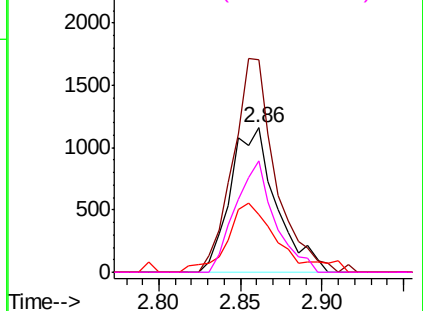
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

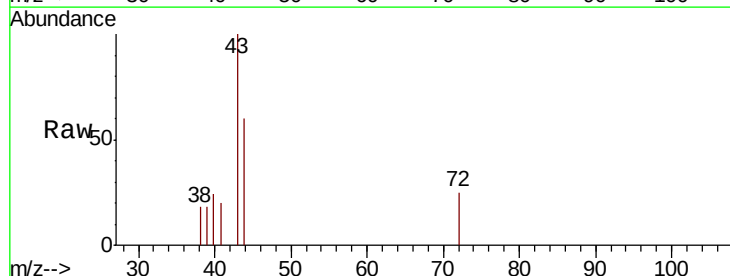
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25
2-Butanone
Concen: 0.802 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX005752.D
Acq: 02 Nov 2018 13:21

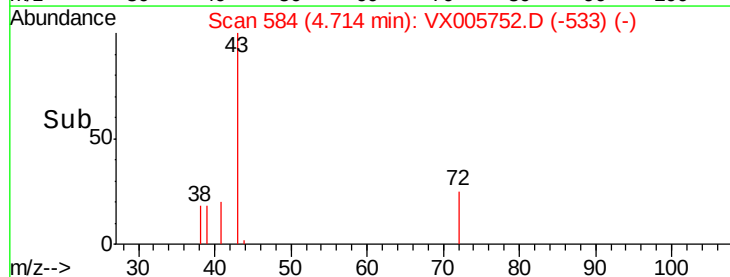
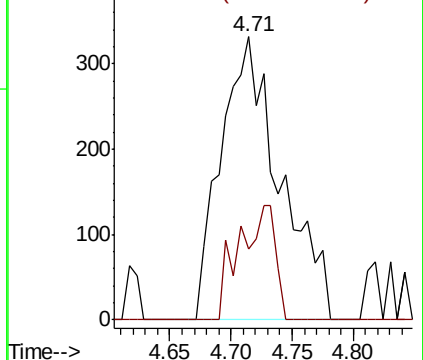
Tgt Ion:	43	Resp:	1117
Ion	Ratio	Lower	Upper
43	100		
72	25.0	19.2	28.8

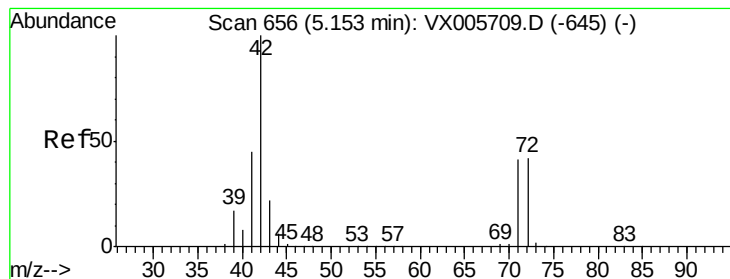


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.552 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#03

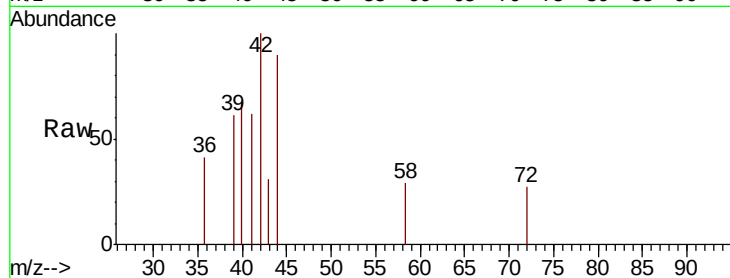
Tot Ion: 42 Resp: 469

Ion Ratio Lower Upper

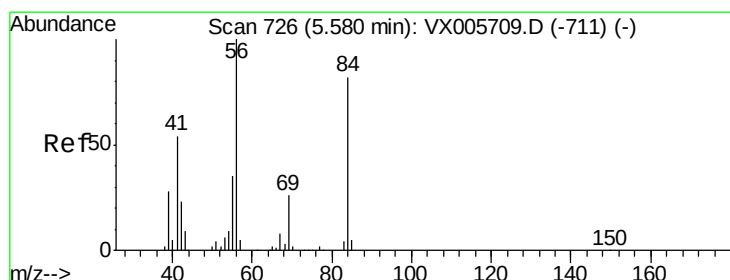
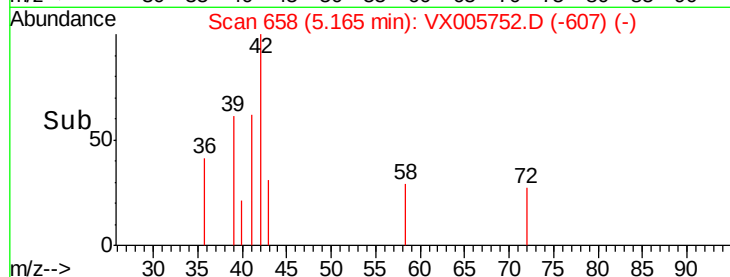
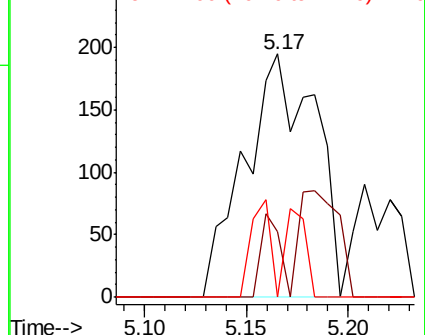
42 100

72 24.1 32.0 48.0#

71 10.4 29.8 44.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.423 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

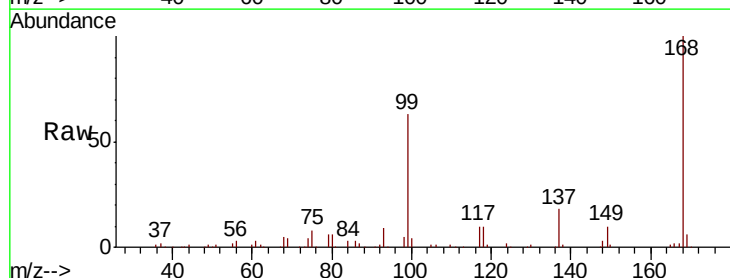
Tgt Ion: 56 Resp: 3138

Ion Ratio Lower Upper

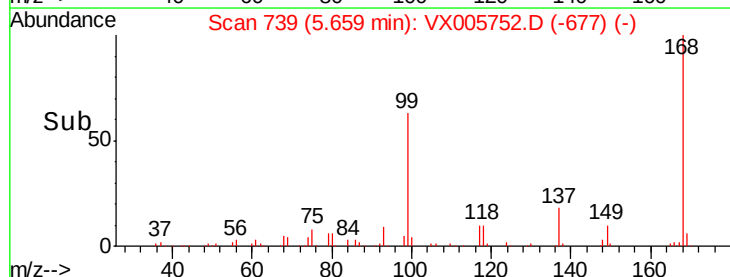
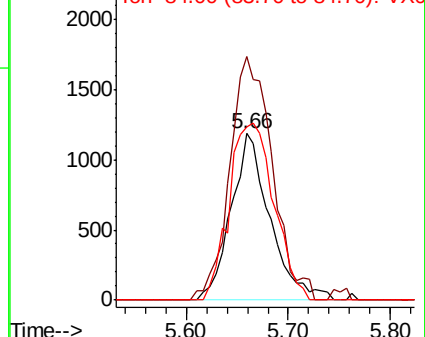
56 100

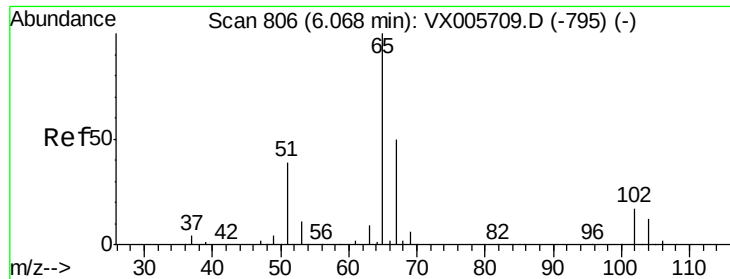
69 146.4 22.6 34.0#

84 104.3 62.7 94.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

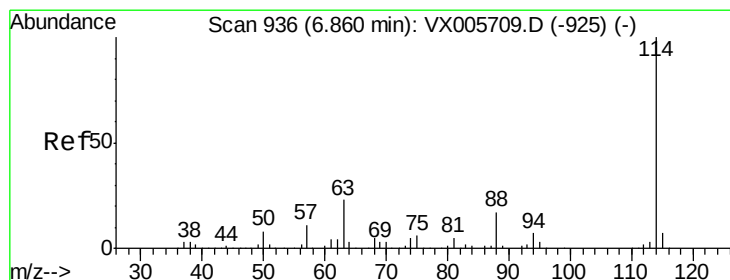
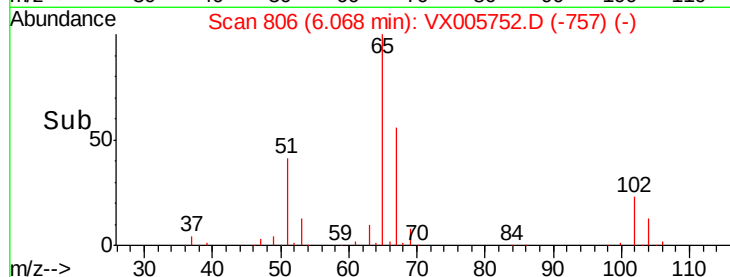
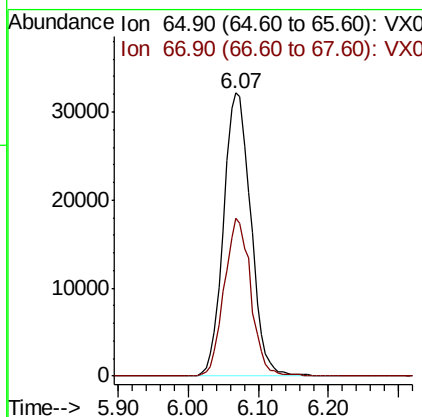
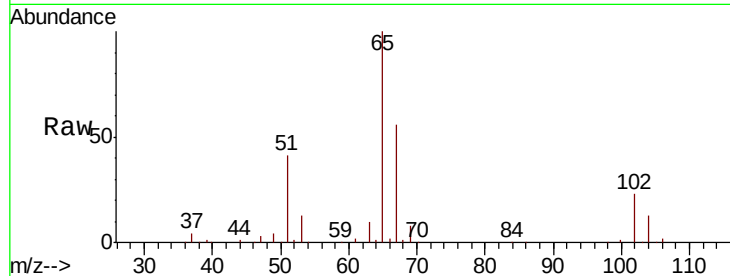




#33
 1,2-Dichloroethane-d4
 Concen: 52.827 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

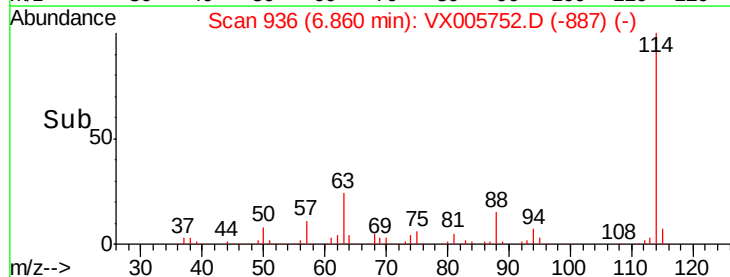
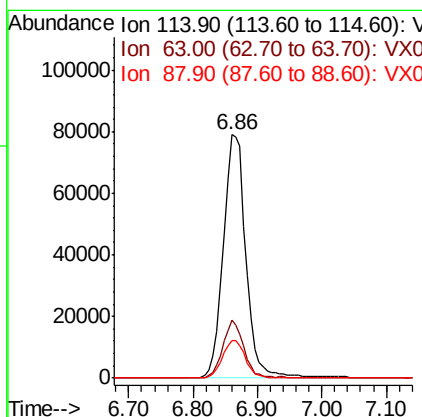
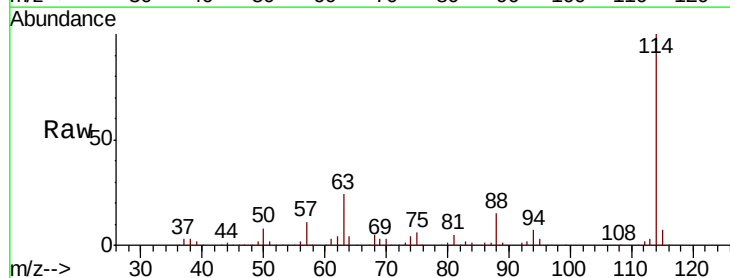
Instrument :
 MSVOA_X
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 PB114401ZHE#03

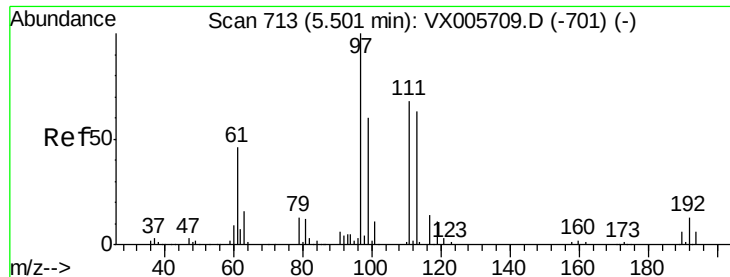
Tot Ion: 65 Resp: 87190
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

Tgt Ion: 114 Resp: 197194
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 42.8
 88 15.4 0.0 31.2

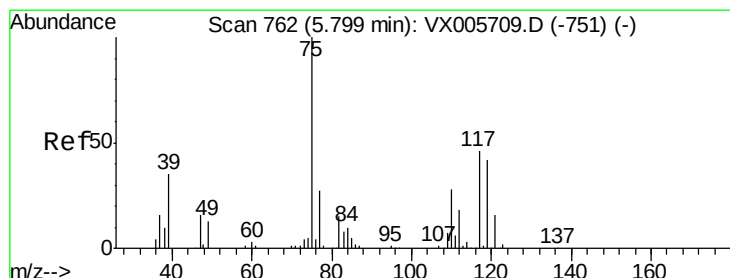
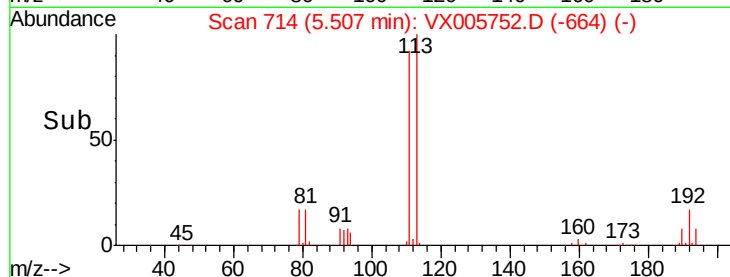
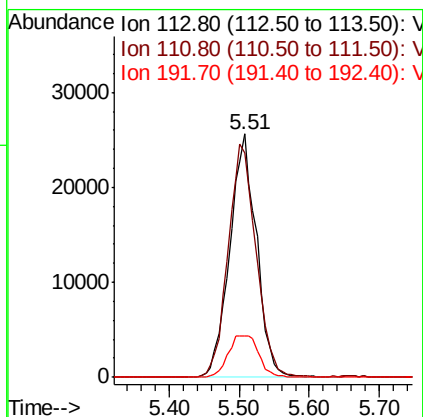
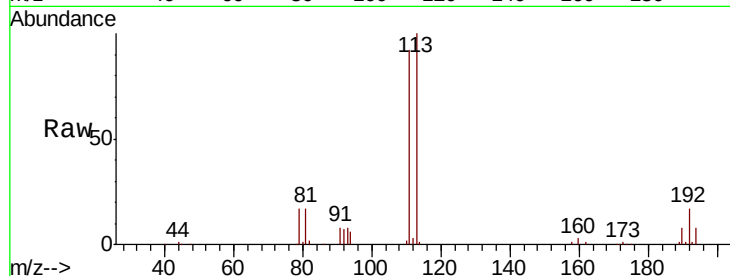




#35
 Dibromofluoromethane
 Concen: 49.697 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

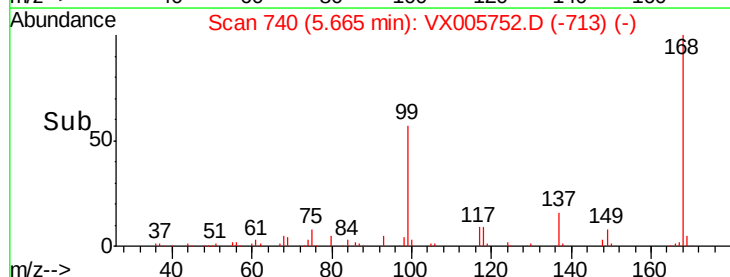
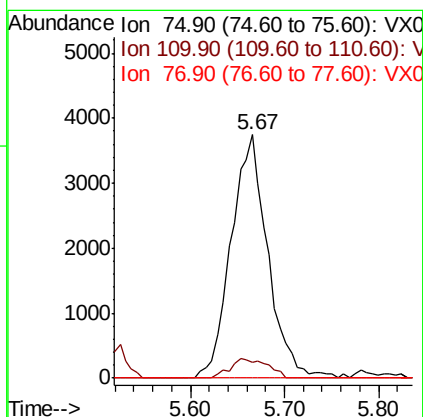
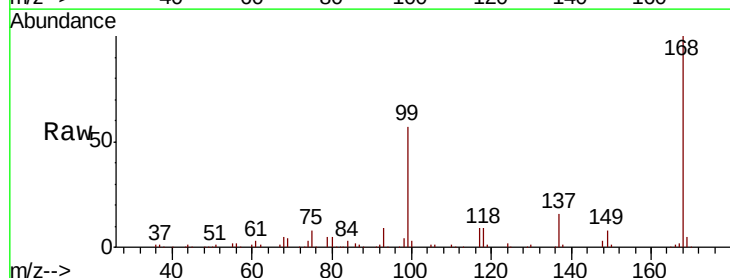
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#03

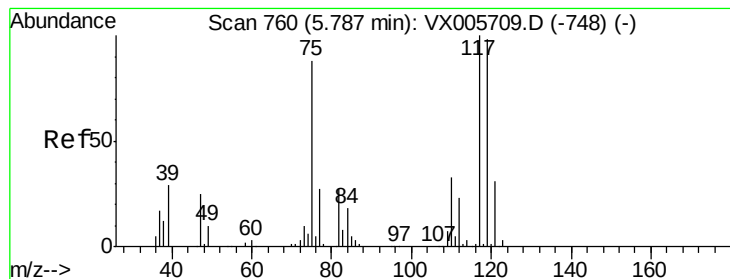
Tot Ion:113 Resp: 67856
 Ion Ratio Lower Upper
 113 100
 111 100.3 82.3 123.5
 192 19.6 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.815 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

Tgt Ion: 75 Resp: 10116
 Ion Ratio Lower Upper
 75 100
 110 8.2 17.4 52.2#
 77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 6.136 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#03

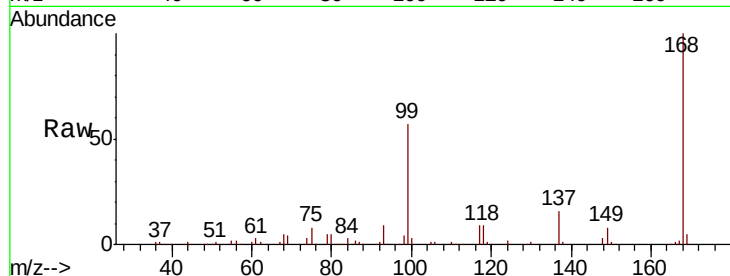
Tot Ion:117 Resp: 11647

Ion Ratio Lower Upper

117 100

119 7.1 78.1 117.1#

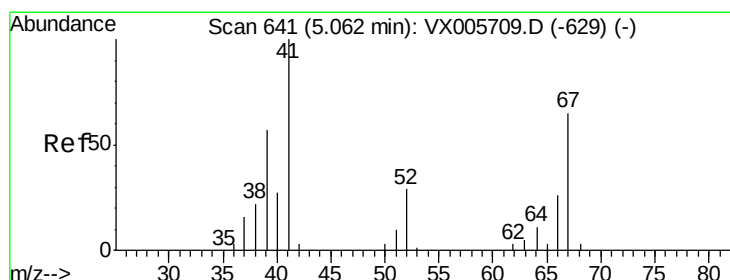
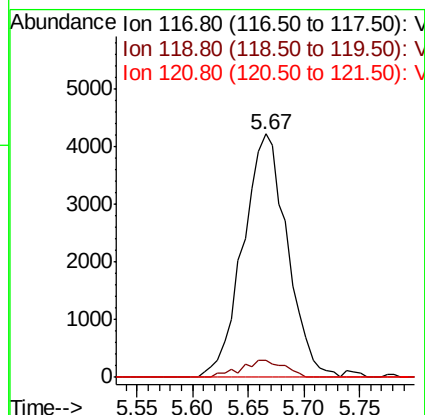
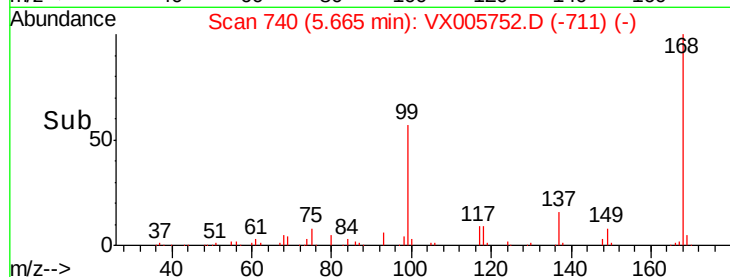
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.242 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.10 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Tgt Ion: 41 Resp: 351

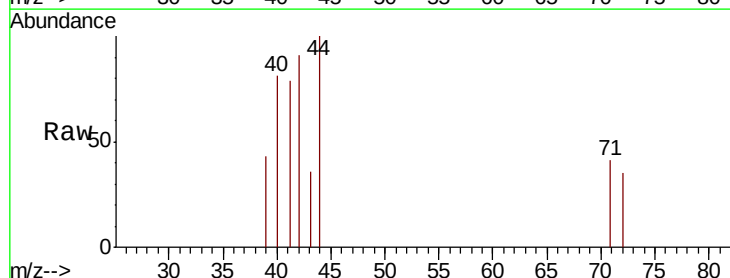
Ion Ratio Lower Upper

41 100

39 31.1 42.2 63.2#

67 0.0 53.4 80.0#

52 0.0 23.4 35.2#

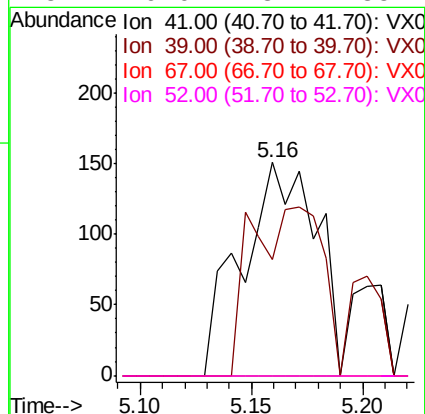
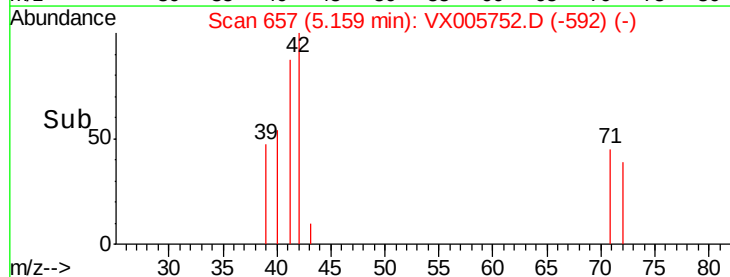


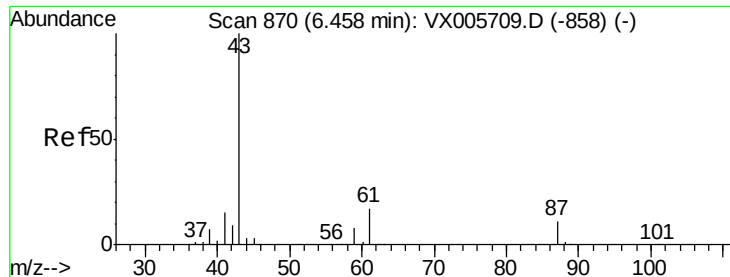
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



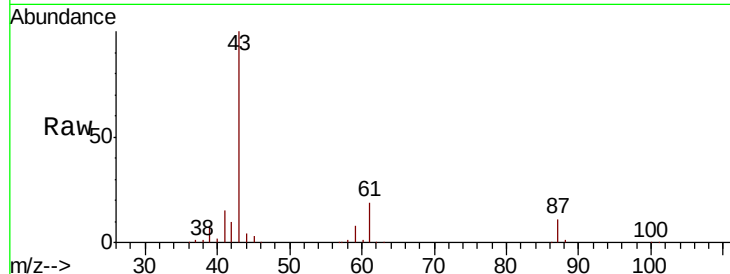


#43

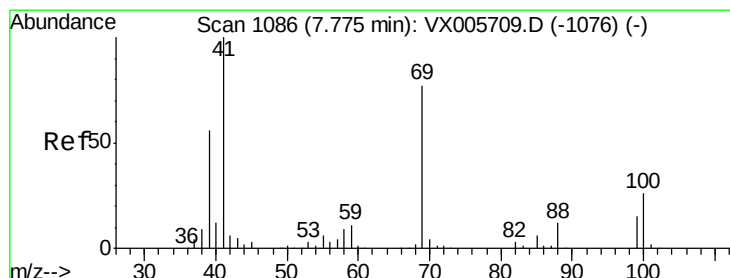
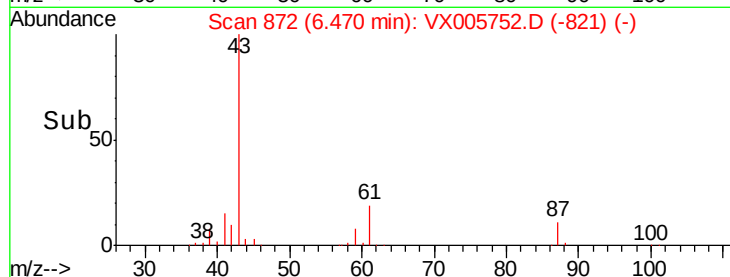
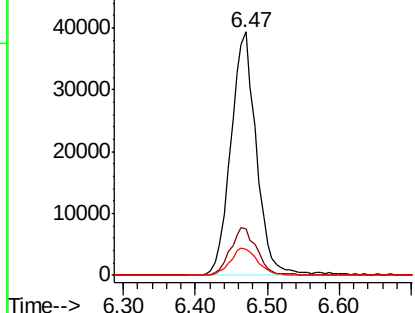
Isopropyl Acetate
 Concen: 25.011 ug/l
 RT: 6.47 min Scan# 872
 Delta R.T. 0.01 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#03

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.4	14.6	22.0
87	11.8	9.6	14.4



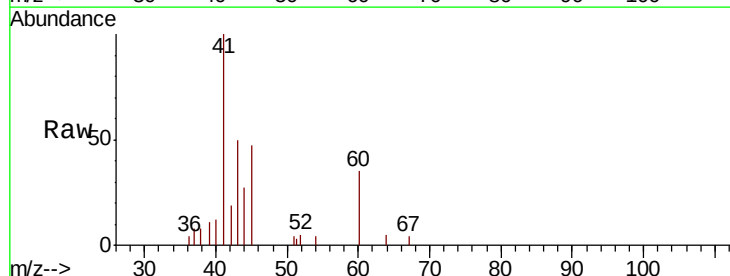
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



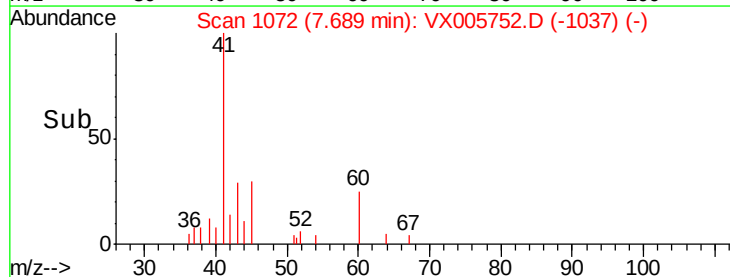
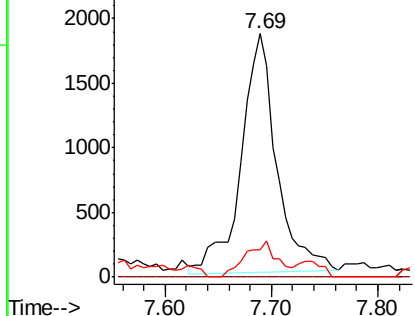
#48

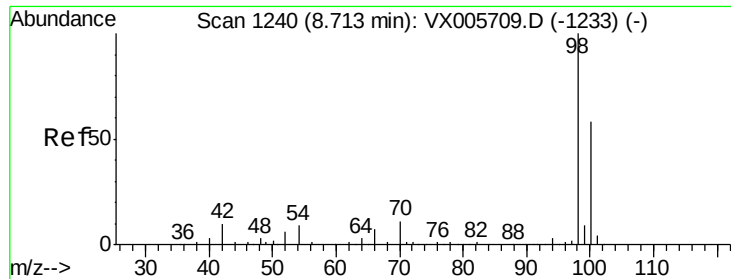
Methyl methacrylate
 Concen: 2.297 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.0	63.2	94.8#
39	13.5	42.2	63.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

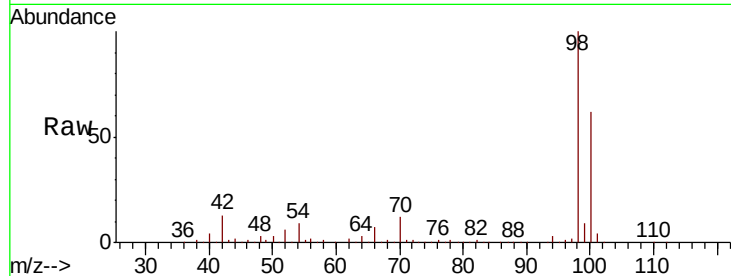




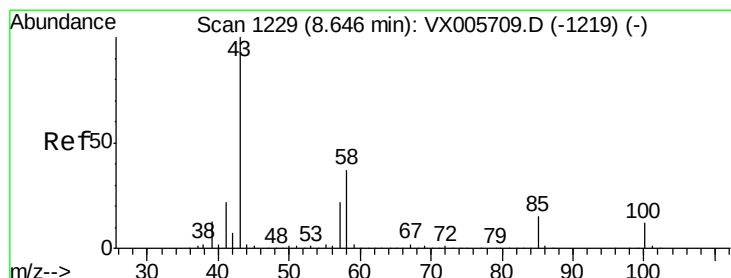
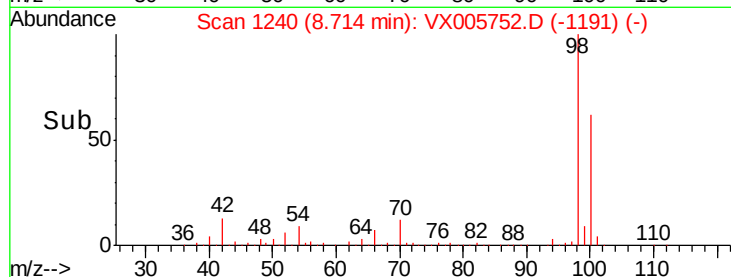
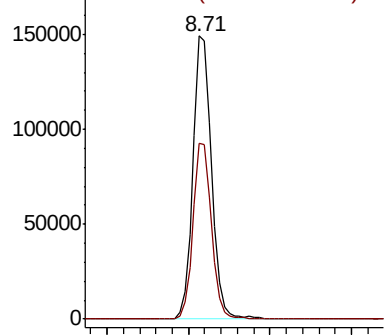
#50
Toluene-d8
Concen: 49.383 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005752.D
Acq: 02 Nov 2018 13:21

Instrument :
MSVOA_X
ClientSampleId :
PB114401ZHE#03

Tot Ion: 98 Resp: 236489
Ion Ratio Lower Upper
98 100
100 62.0 51.3 76.9

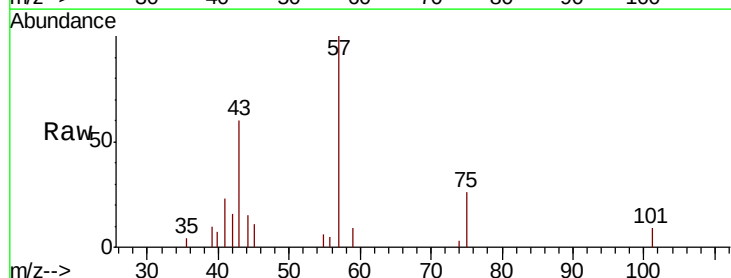


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX

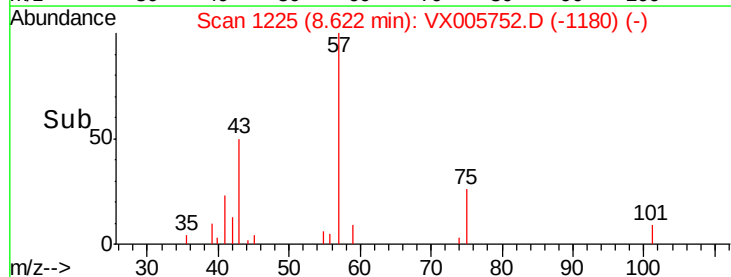
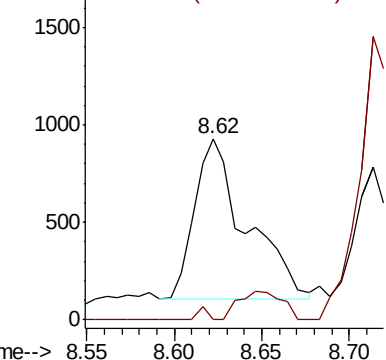


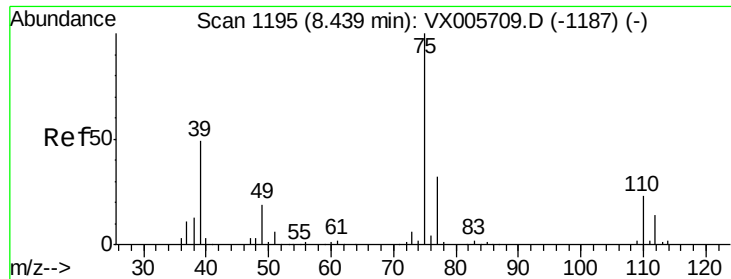
#51
4-Methyl-2-Pentanone
Concen: 0.632 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VX005752.D
Acq: 02 Nov 2018 13:21

Tgt Ion: 43 Resp: 1676
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX

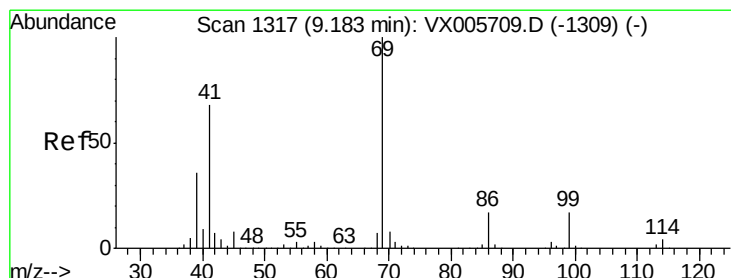
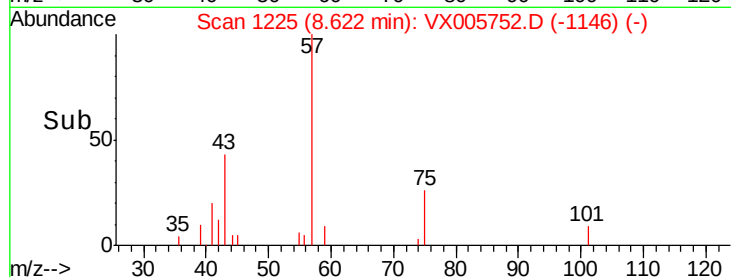
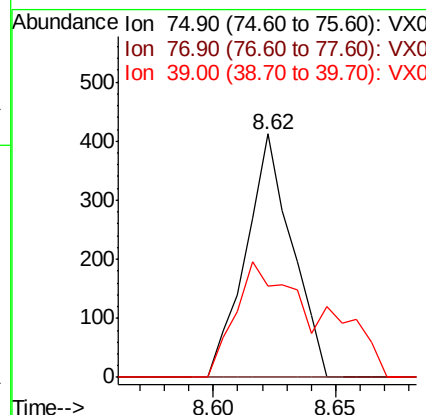
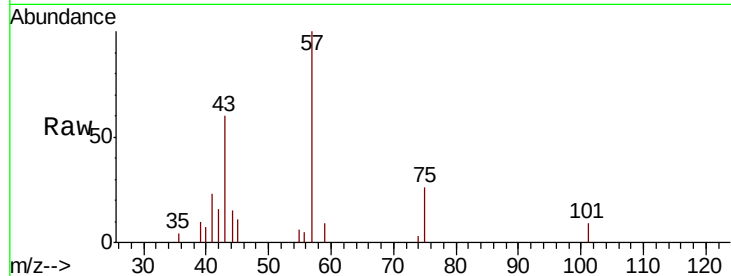




#54
 cis-1,3-Dichloropropene
 Concen: 0.244 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

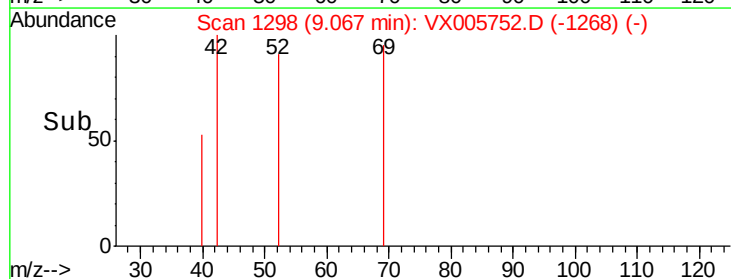
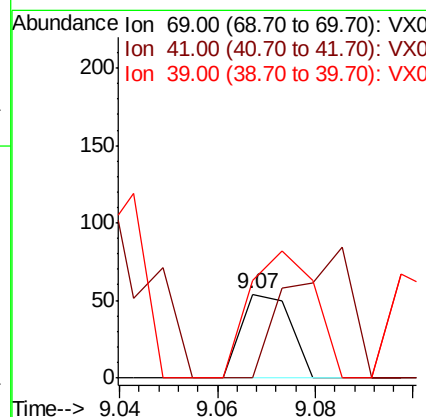
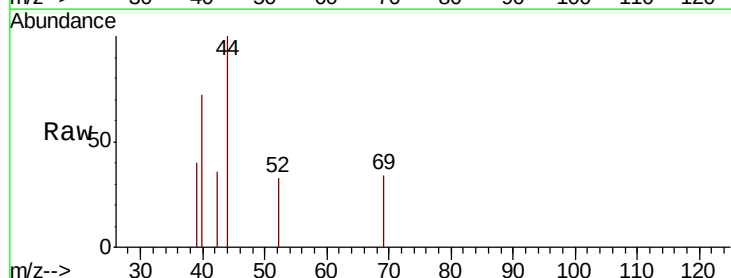
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#03

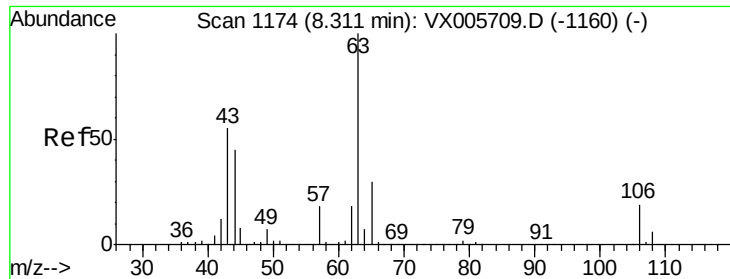
Tot Ion: 75 Resp: 543
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 37.4 38.2 57.2#



#56
 Ethyl methacrylate
 Concen: 2.485 ug/l
 RT: 9.07 min Scan# 1298
 Delta R.T. -0.11 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

Tgt Ion: 69 Resp: 38
 Ion Ratio Lower Upper
 69 100
 41 0.0 57.0 85.6#
 39 200.0 28.3 42.5#





#58

2-Chloroethyl Vinyl ether

Concen: 10.369 ug/l

RT: 8.32 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

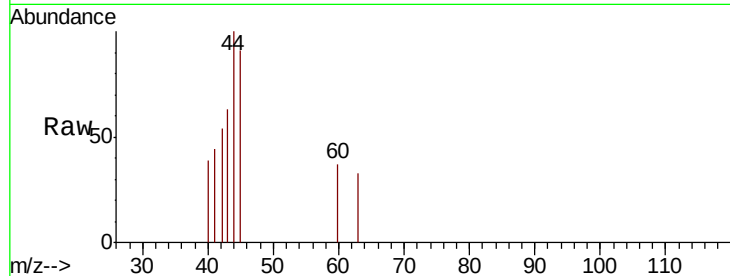
PB114401ZHE#03

Tot Ion: 63 Resp: 46

Ion Ratio Lower Upper

63 100

106 0.0 21.3 31.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.32

60

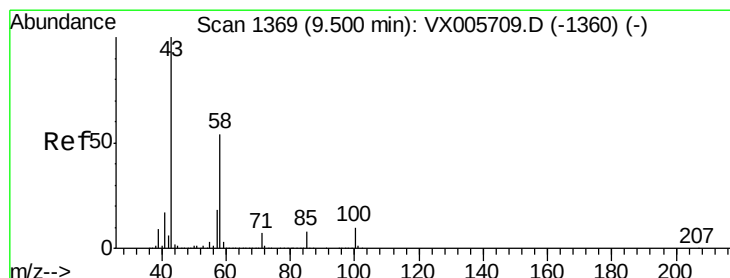
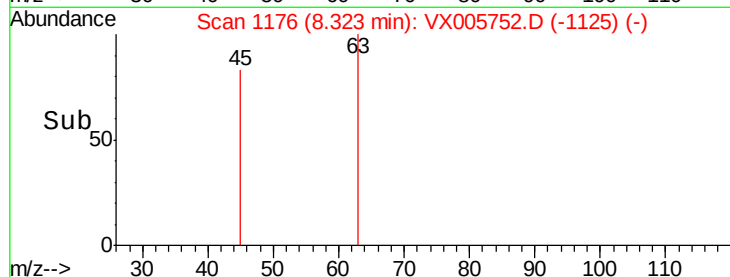
40

20

0

8.30 8.32 8.34

Time-->



#59

2-Hexanone

Concen: 2.486 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX005752.D

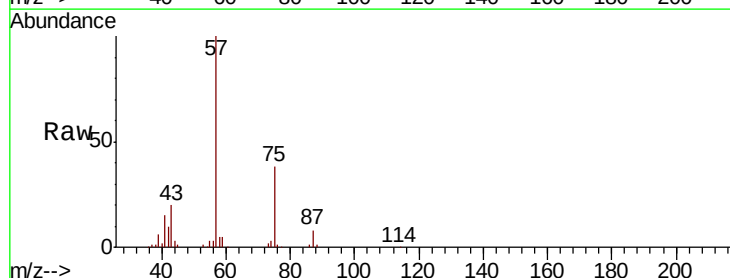
Acq: 02 Nov 2018 13:21

Tgt Ion: 43 Resp: 5367

Ion Ratio Lower Upper

43 100

58 27.3 25.9 77.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

5000

4000

3000

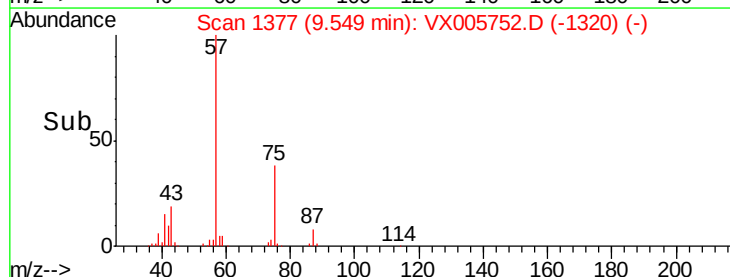
2000

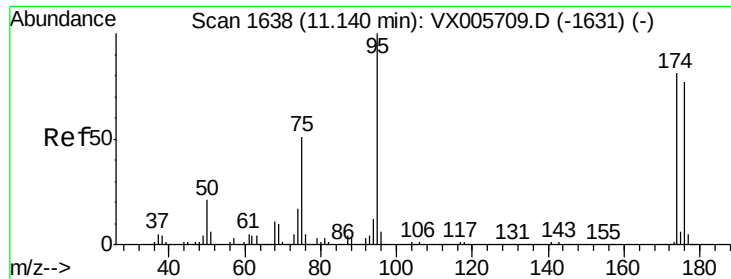
1000

0

9.50 9.55 9.60

Time-->





#62

4-Bromofluorobenzene

Concen: 41.731 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#03

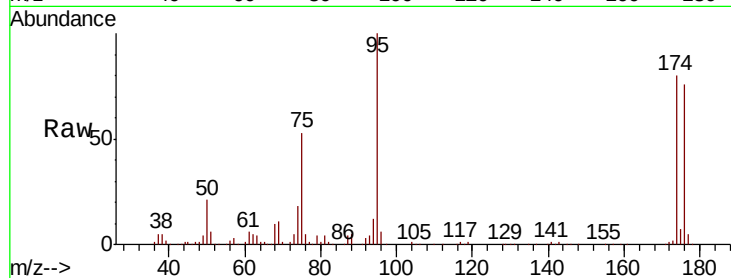
Tot Ion: 95 Resp: 73757

Ion Ratio Lower Upper

95 100

174 79.6 0.0 184.4

176 75.8 0.0 177.4

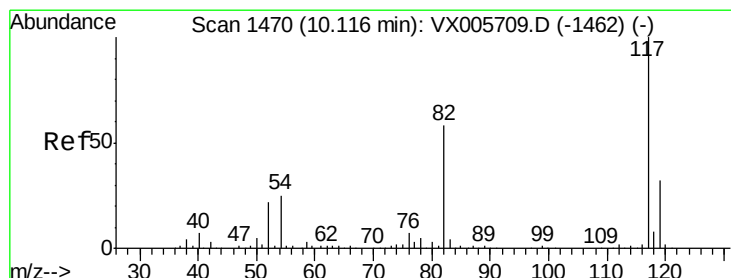
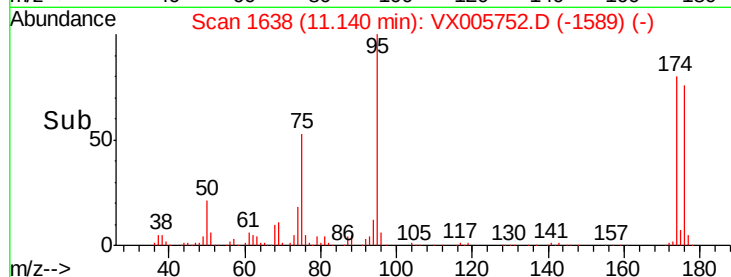


Abundance Ion 94.90 (94.60 to 95.60): VX005709.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005709.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005709.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

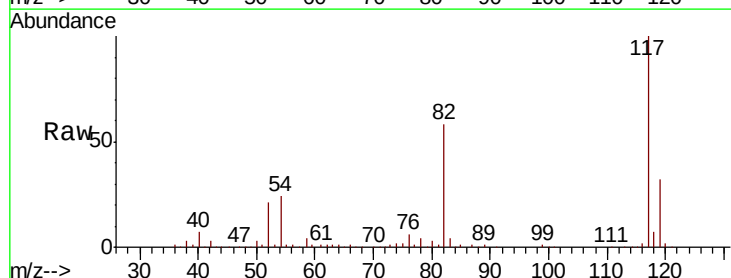
Tgt Ion: 117 Resp: 170582

Ion Ratio Lower Upper

117 100

82 58.2 44.1 66.1

119 31.9 26.2 39.2

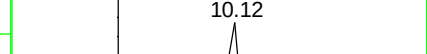
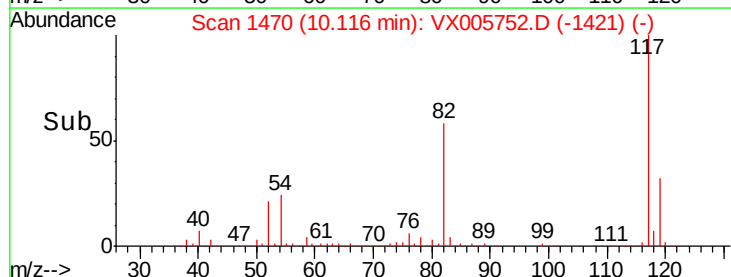


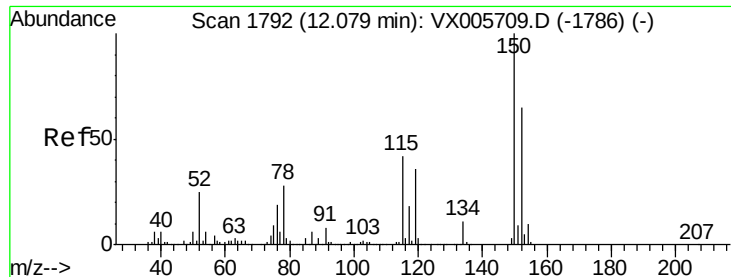
Abundance Ion 116.90 (116.60 to 117.60): VX005709.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005709.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005709.D (-1462) (-)

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005752.D

Acq: 02 Nov 2018 13:21

Instrument :

MSVOA_X

ClientSampleId :

PB114401ZHE#03

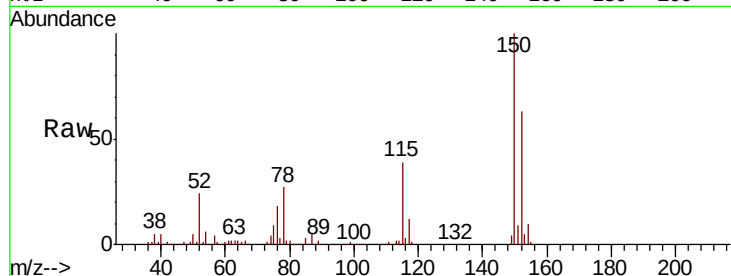
Tot Ion:152 Resp: 72032

Ion Ratio Lower Upper

152 100

115 60.1 39.4 118.1

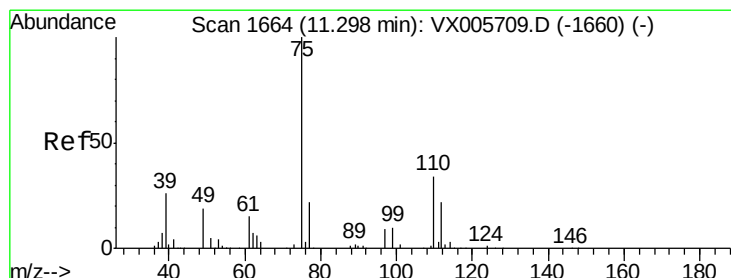
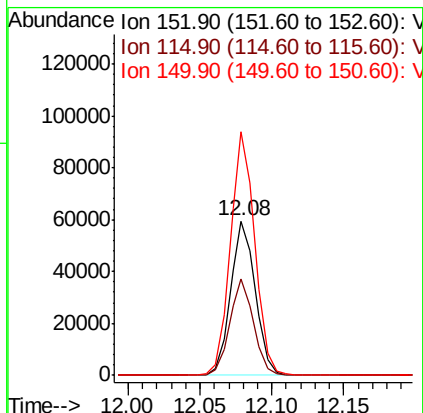
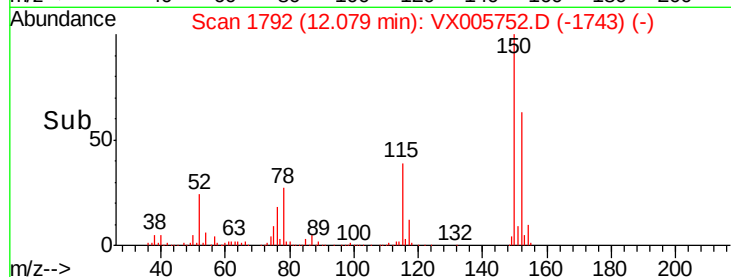
150 155.3 0.0 346.4



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



#76

1,2,3-Trichloropropane

Concen: 21.770 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005752.D

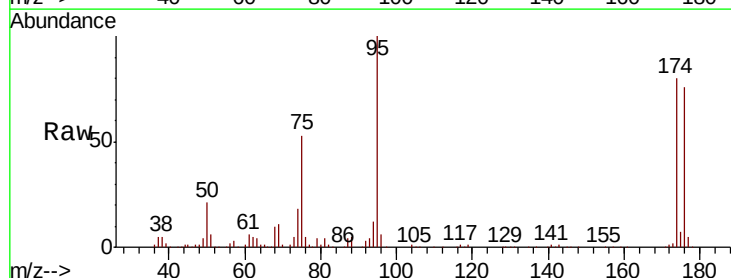
Acq: 02 Nov 2018 13:21

Tgt Ion: 75 Resp: 39057

Ion Ratio Lower Upper

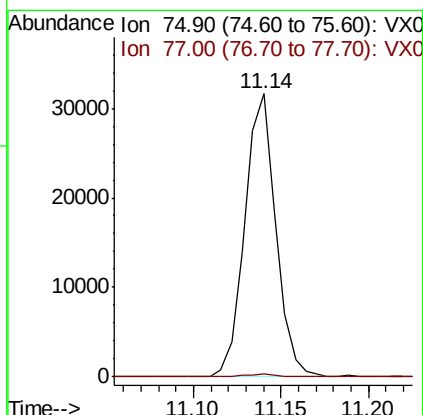
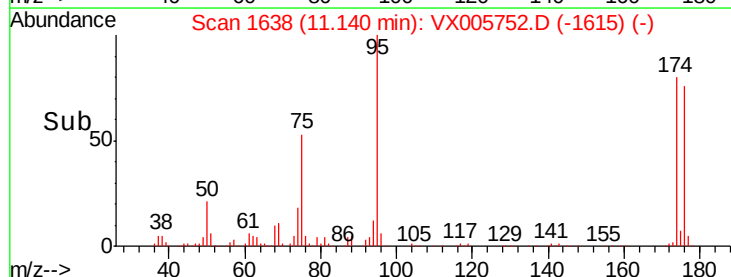
75 100

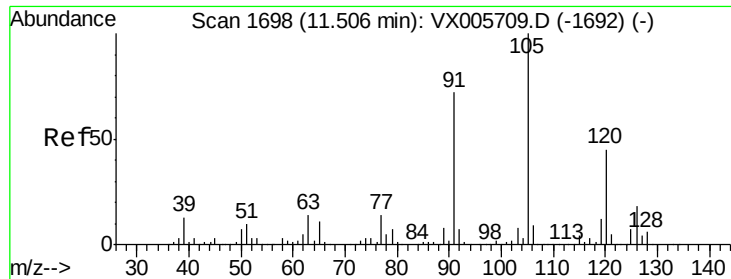
77 1.2 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

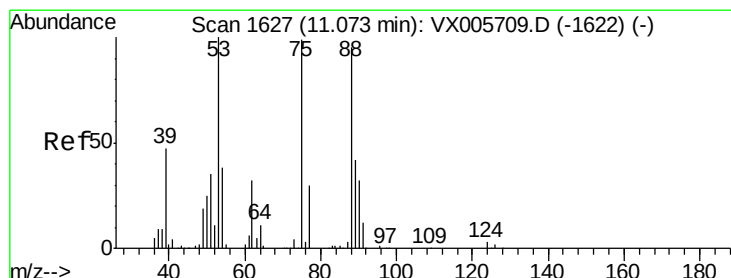
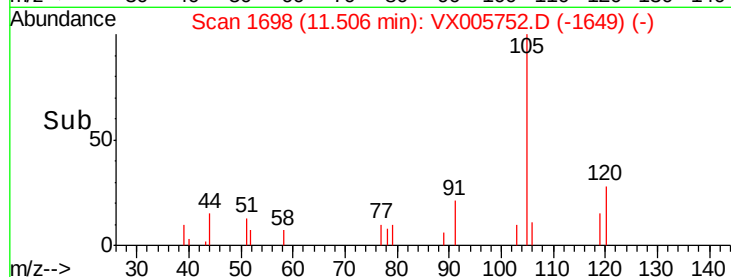
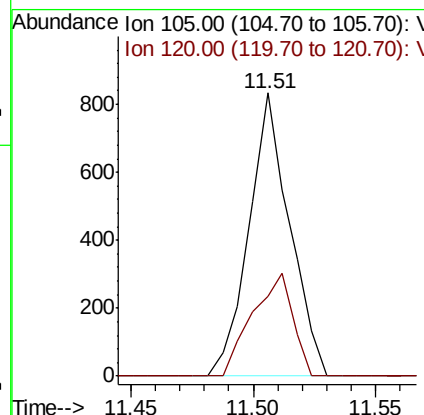
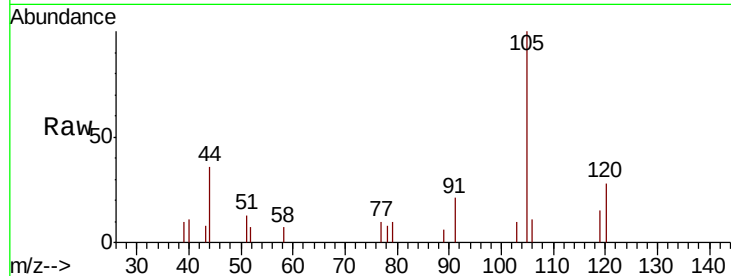




#80
 1,3,5-Trimethylbenzene
 Concen: 0.240 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114401ZHE#03

Tot Ion:105 Resp: 968
 Ion Ratio Lower Upper
 105 100
 120 36.0 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.339 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005752.D
 Acq: 02 Nov 2018 13:21

Tgt Ion: 75 Resp: 39057
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.2 120.2#
 89 0.0 39.8 59.8#

