

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021820\
 Data File : VX014954.D
 Acq On : 18 Feb 2020 13:08
 Operator : JC/SP
 Sample : L1564-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS038-200217

Quant Time: Feb 19 00:16:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	436591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	682818	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	661567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	351028	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	249891	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
35) Dibromofluoromethane	5.49	113	207765	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
50) Toluene-d8	8.71	98	815290	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.13	95	305935	53.00	ug/l	0.00
Spiked Amount			Recovery	=	106.00%	

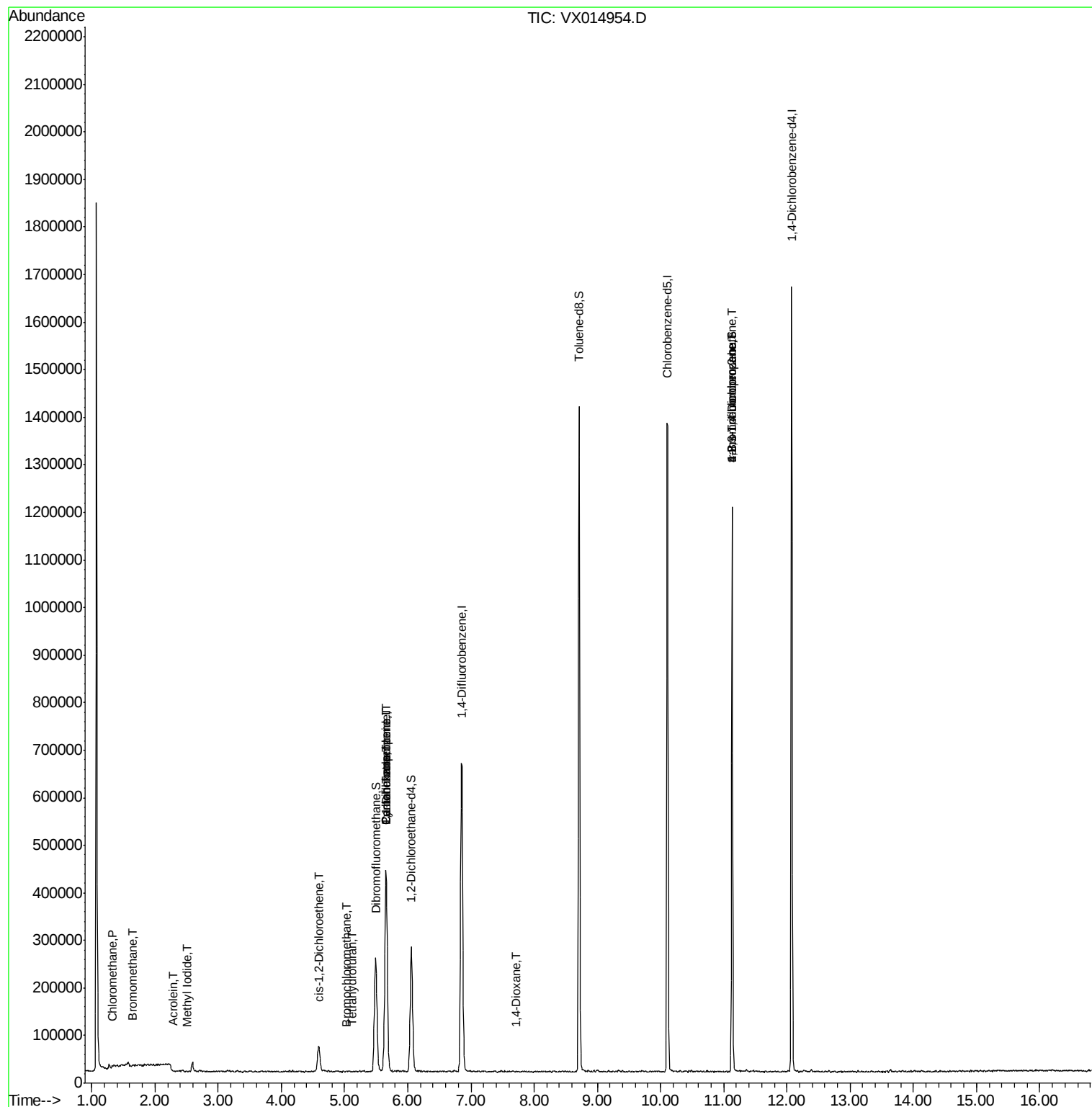
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1612	0.344	ug/l #	74
5) Bromomethane	1.65	94	1342	0.411	ug/l	99
10) Methyl Iodide	2.52	142	1292	4.627	ug/l #	77
13) Acrolein	2.29	56	515	0.777	ug/l	89
16) Acetone	2.44	43	4358	Below Cal	#	84
27) cis-1,2-Dichloroethene	4.59	96	36800	7.455	ug/l	89
28) Bromochloromethane	5.02	49	663	0.224	ug/l #	8
29) Tetrahydrofuran	5.11	42	470	0.246	ug/l #	32
31) Cyclohexane	5.65	56	7705	1.106	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	28641	4.689	ug/l #	53
38) Carbon Tetrachloride	5.65	117	38144	6.408	ug/l #	15
49) 1,4-Dioxane	7.72	88	107	1.107	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	154567	24.350	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	154567	62.329	ug/l #	12

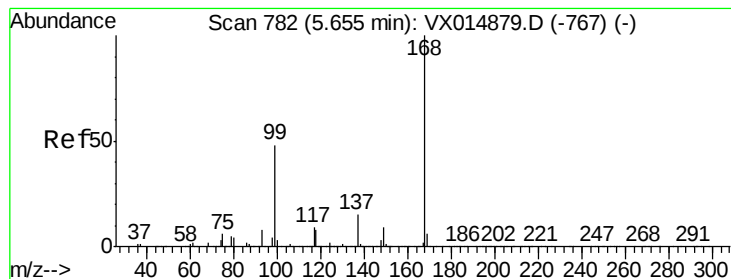
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 19 00:16:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

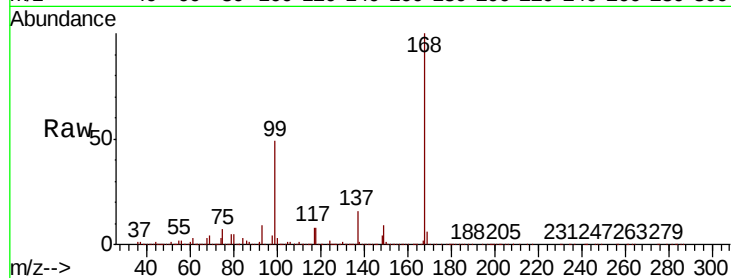
KY038PS038-200217

Tot Ion:168 Resp: 436591

Ion Ratio Lower Upper

168 100

99 48.7 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

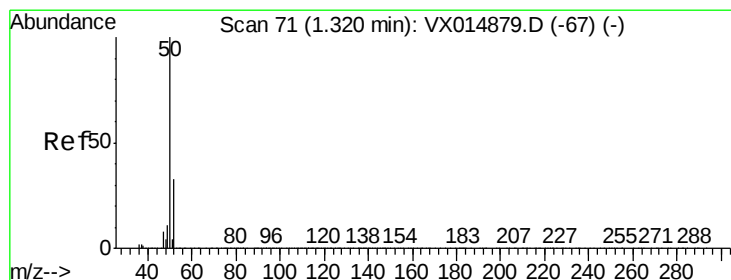
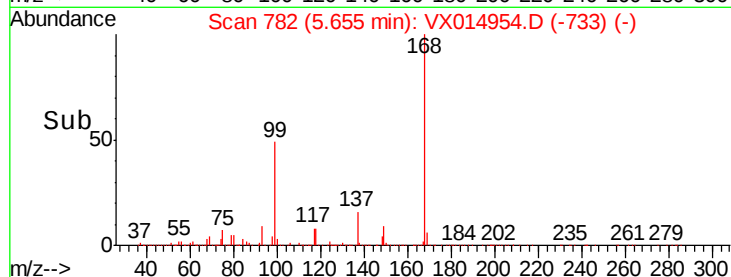
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.344 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014954.D

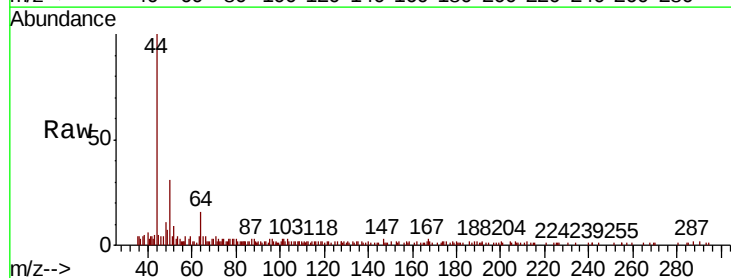
Acq: 18 Feb 2020 13:08

Tgt Ion: 50 Resp: 1612

Ion Ratio Lower Upper

50 100

52 18.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2000

1500

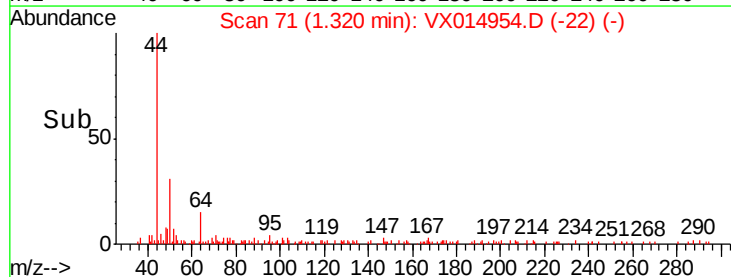
1000

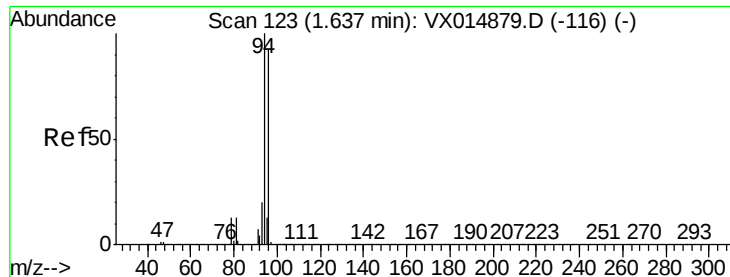
500

0

Time-->

1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.411 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

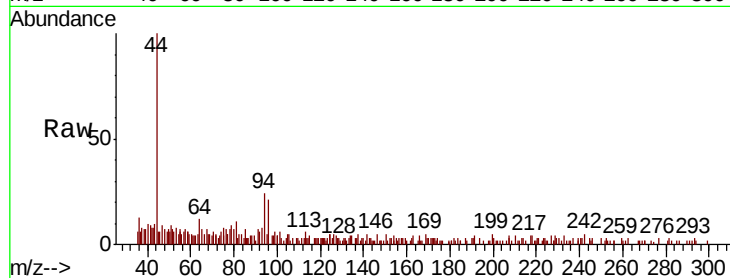
KY038PS038-200217

Tot Ion: 94 Resp: 1342

Ion Ratio Lower Upper

94 100

96 93.4 73.7 110.5



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

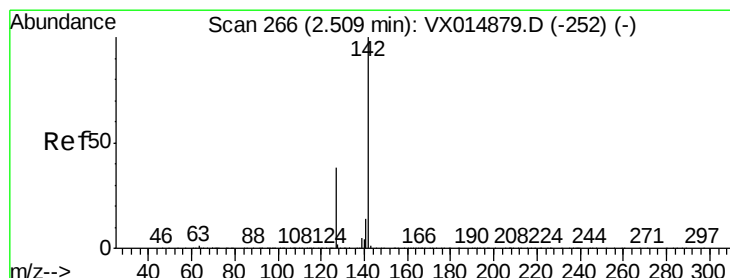
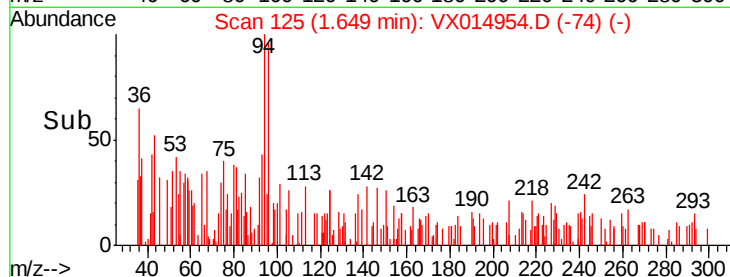
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 4.627 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

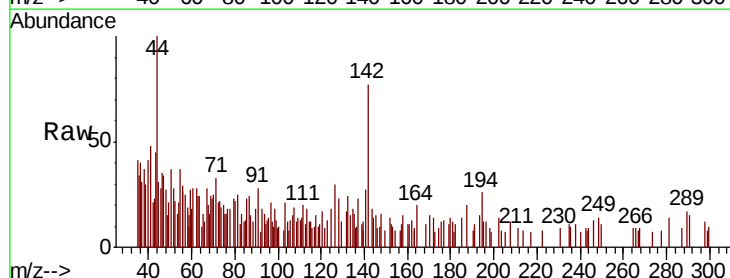
Tgt Ion: 142 Resp: 1292

Ion Ratio Lower Upper

142 100

127 35.8 31.1 46.7

141 44.0 11.3 16.9#



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

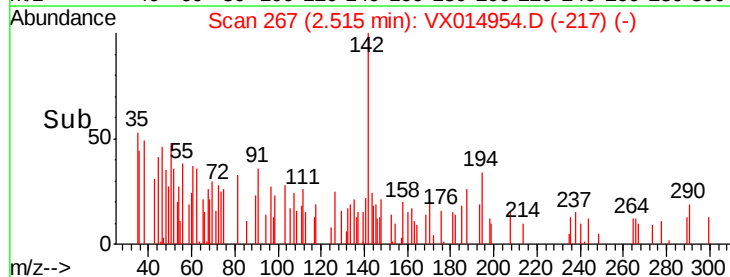
600

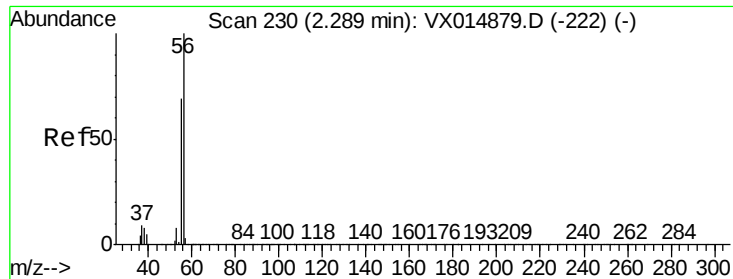
400

200

0

Time-->





#13

Acrolein

Concen: 0.777 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

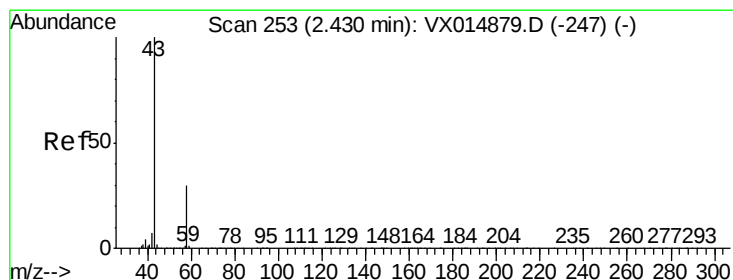
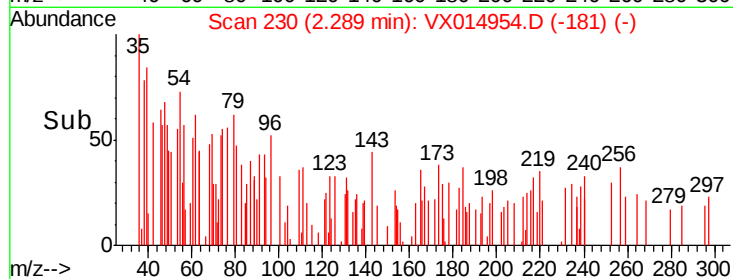
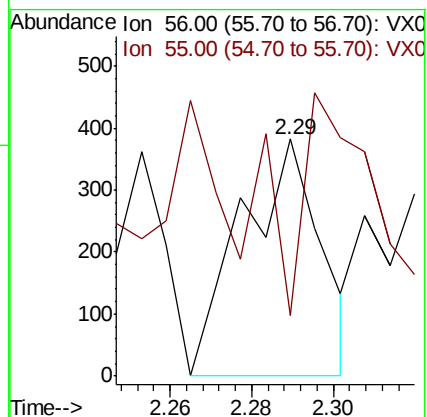
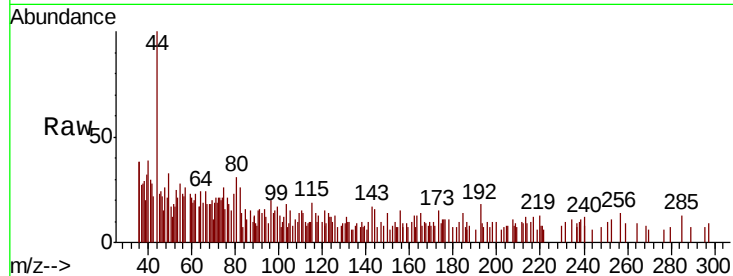
KY038PS038-200217

Tot Ion: 56 Resp: 515

Ion Ratio Lower Upper

56 100

55 77.9 55.0 82.4



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014954.D

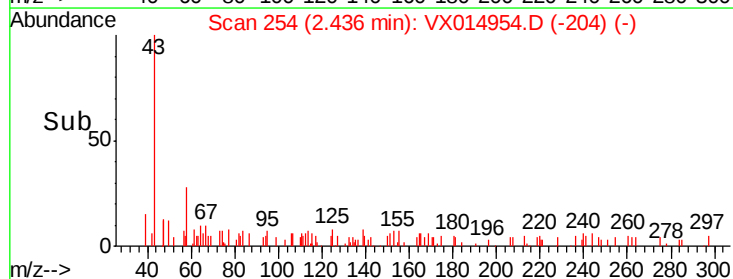
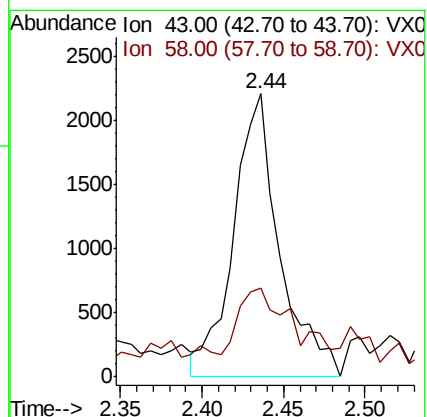
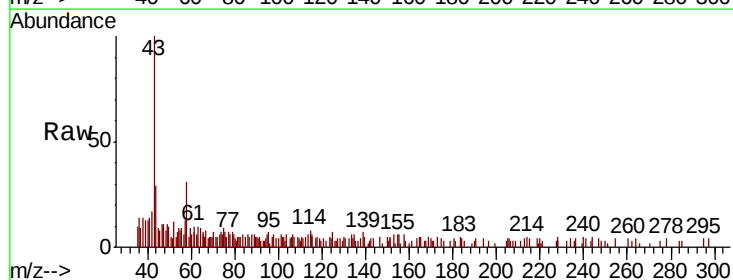
Acq: 18 Feb 2020 13:08

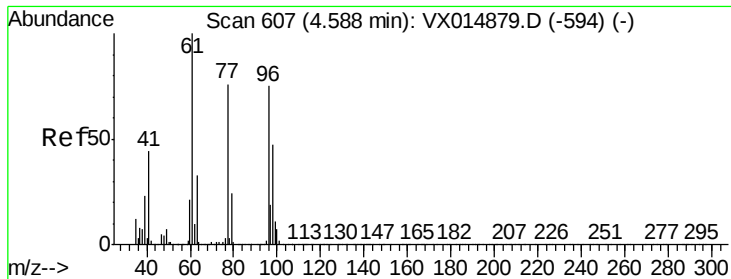
Tgt Ion: 43 Resp: 4358

Ion Ratio Lower Upper

43 100

58 21.5 24.1 36.1#





#27

cis-1,2-Dichloroethene

Concen: 7.455 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-200217

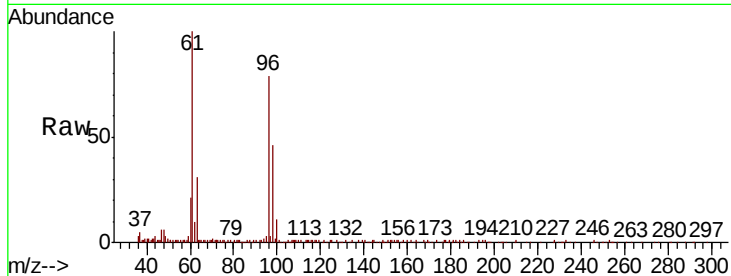
Tot Ion: 96 Resp: 36800

Ion Ratio Lower Upper

96 100

61 124.7 0.0 286.2

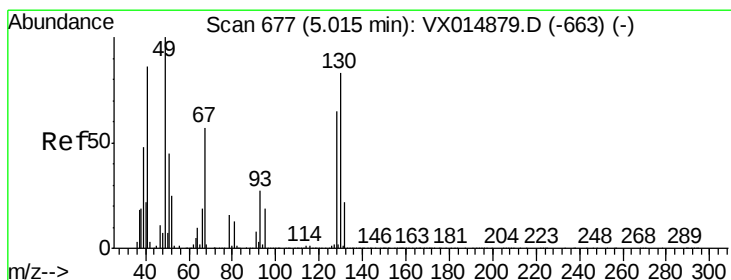
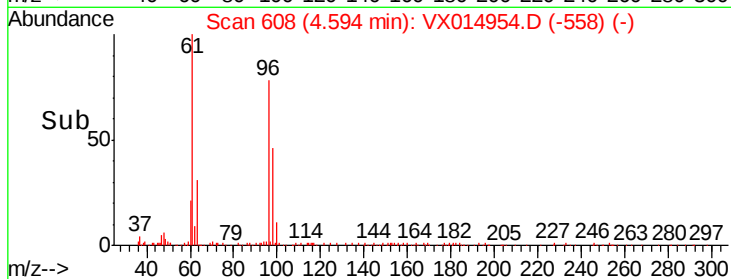
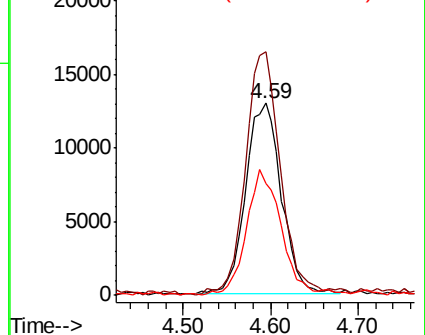
98 62.6 0.0 131.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: 0.224 ug/l

RT: 5.02 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

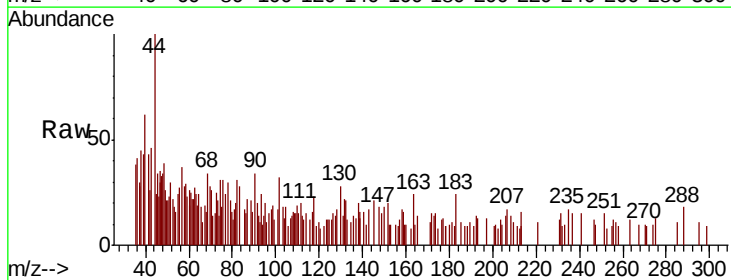
Tgt Ion: 49 Resp: 663

Ion Ratio Lower Upper

49 100

129 21.4 0.0 5.2#

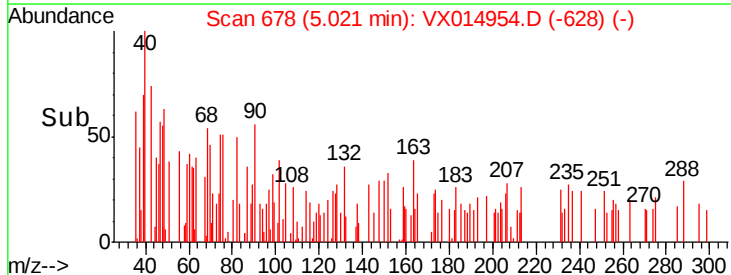
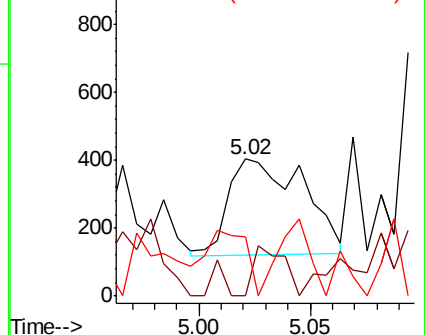
130 0.0 67.4 101.2#

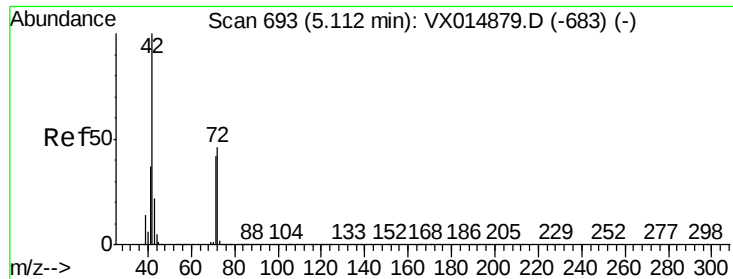


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

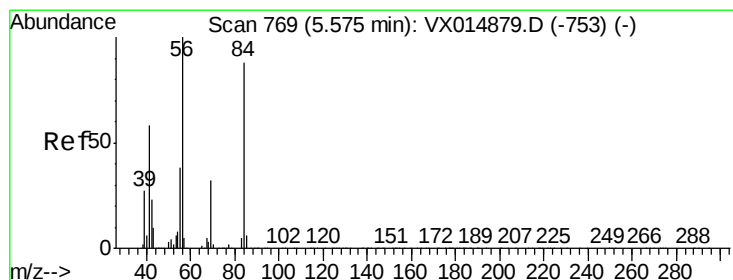
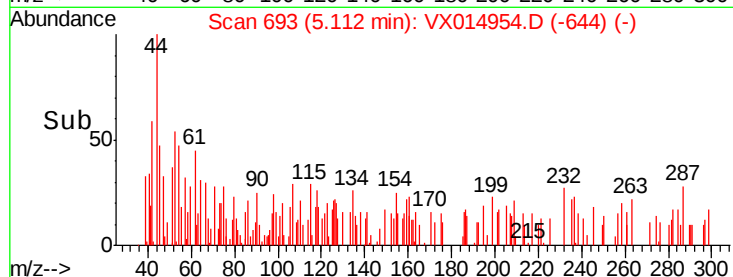
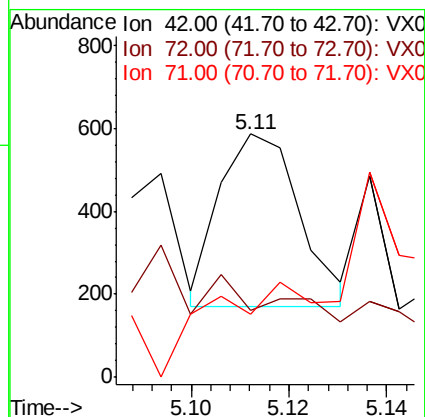
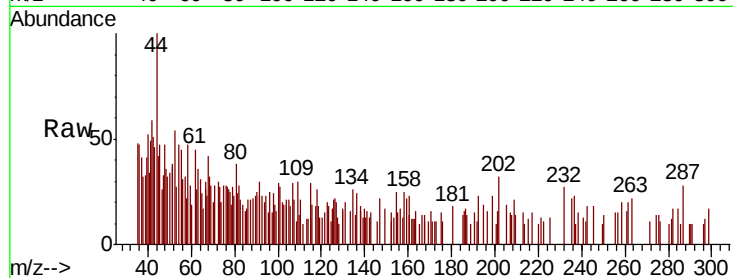




#29
Tetrahydrofuran
Concen: 0.246 ug/l
RT: 5.11 min Scan# 693
Delta R.T. 0.00 min
Lab File: VX014954.D
Acq: 18 Feb 2020 13:08

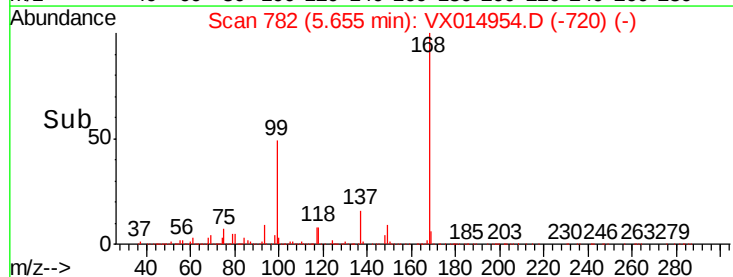
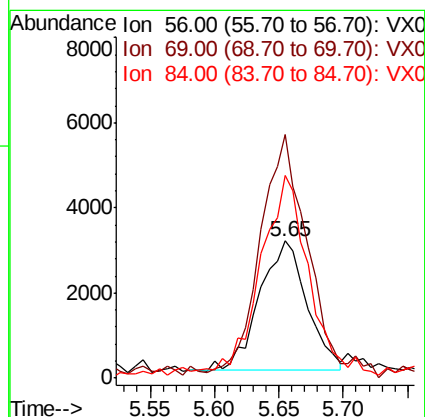
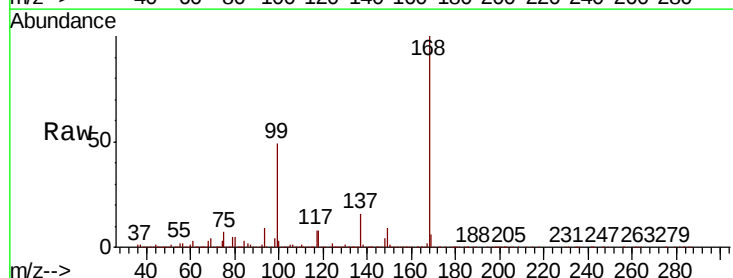
Instrument :
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ClientSampleId :
KY038PS038-200217

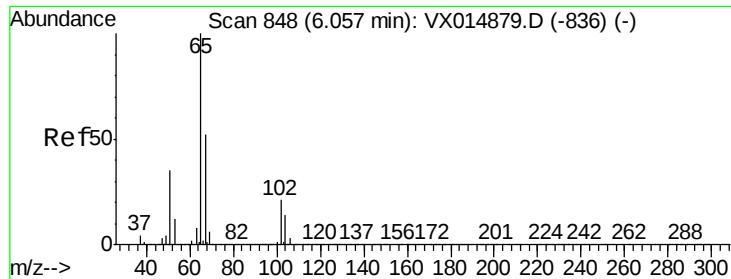
Tot Ion: 42 Resp: 470
Ion Ratio Lower Upper
42 100
72 0.0 36.9 55.3#
71 0.0 34.1 51.1#



#31
Cyclohexane
Concen: 1.106 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.08 min
Lab File: VX014954.D
Acq: 18 Feb 2020 13:08

Tgt Ion: 56 Resp: 7705
Ion Ratio Lower Upper
56 100
69 179.5 25.9 38.9#
84 152.2 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 50.716 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

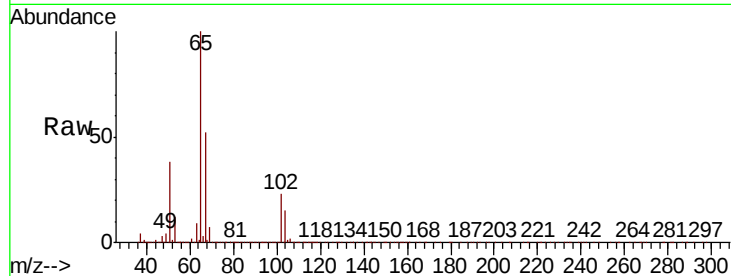
KY038PS038-200217

Tot Ion: 65 Resp: 249891

Ion Ratio Lower Upper

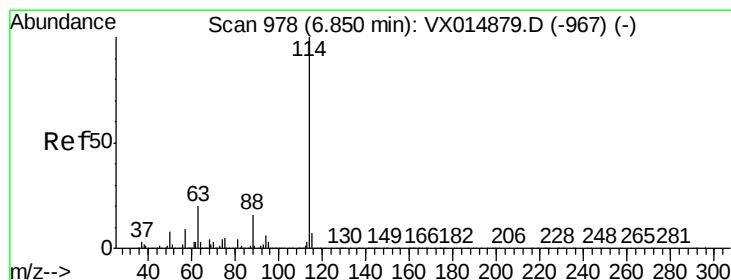
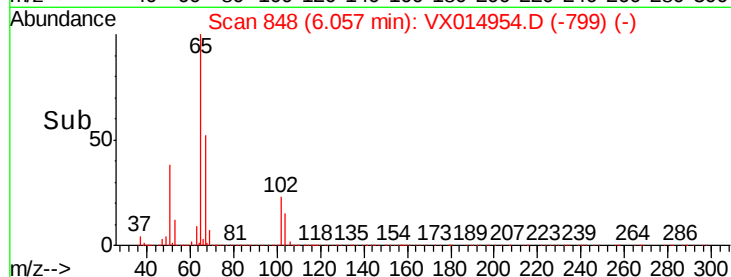
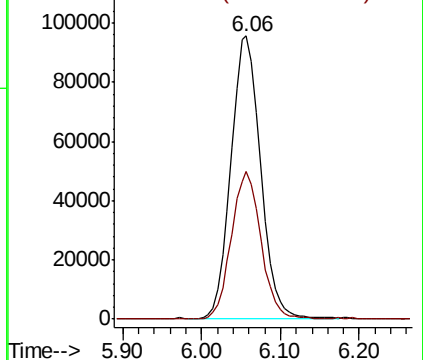
65 100

67 52.2 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 979

Delta R.T. 0.01 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

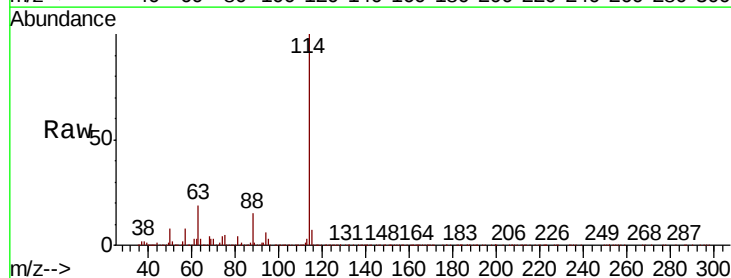
Tgt Ion: 114 Resp: 682818

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.2

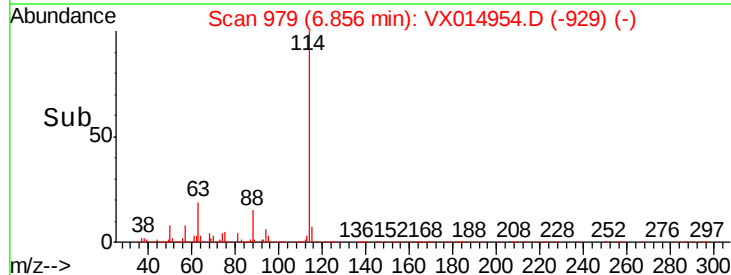
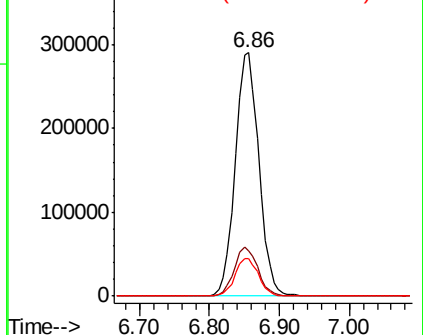
88 15.4 0.0 32.0

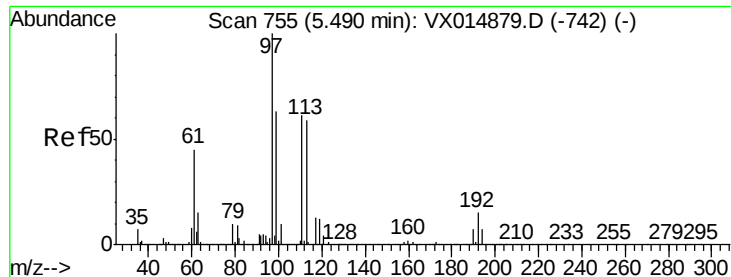


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.494 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

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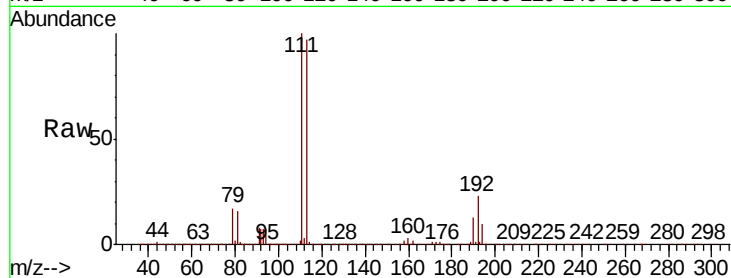
Tot Ion:113 Resp: 207765

Ion Ratio Lower Upper

113 100

111 103.5 82.4 123.6

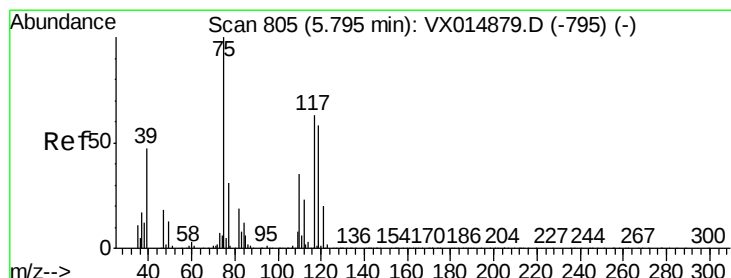
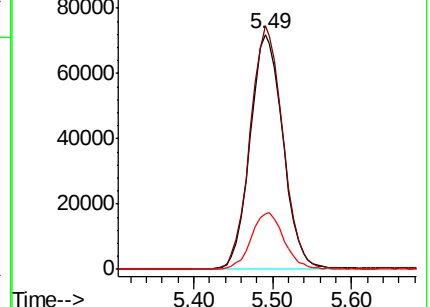
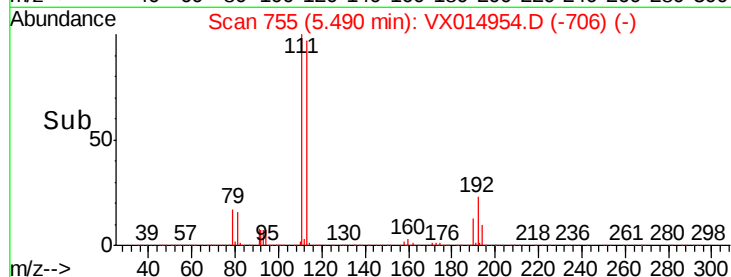
192 24.4 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.689 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

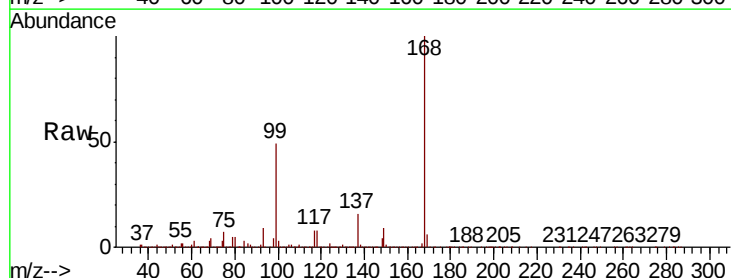
Tgt Ion: 75 Resp: 28641

Ion Ratio Lower Upper

75 100

110 13.0 18.3 54.8#

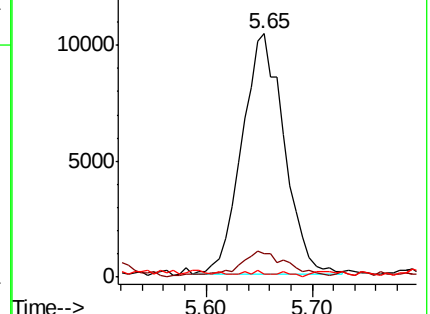
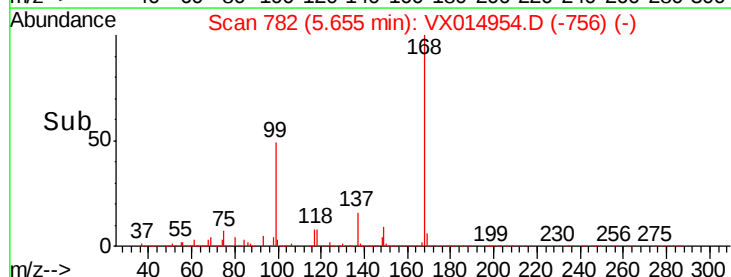
77 0.7 24.6 36.8#

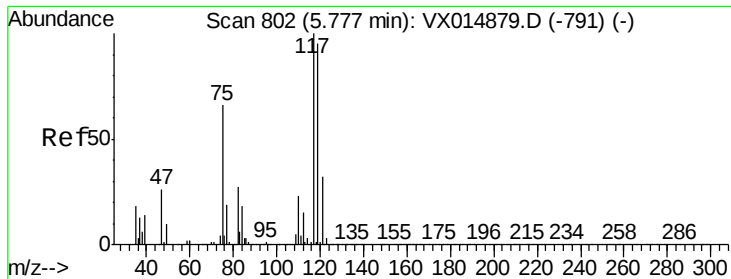


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.408 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-200217

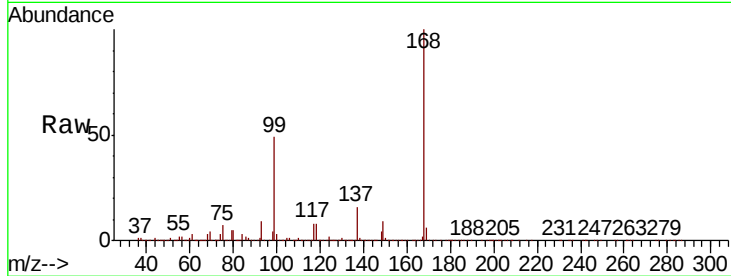
Tot Ion:117 Resp: 38144

Ion Ratio Lower Upper

117 100

119 3.7 76.0 114.0#

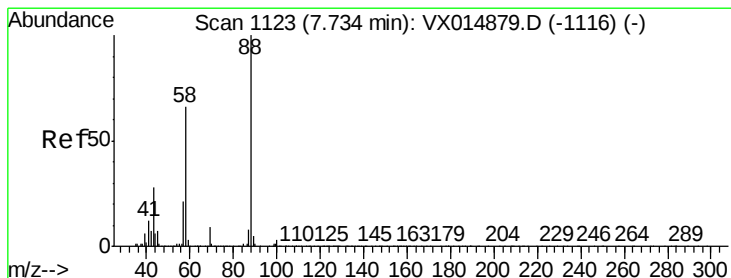
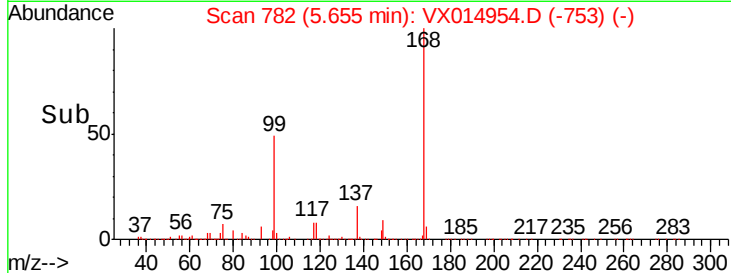
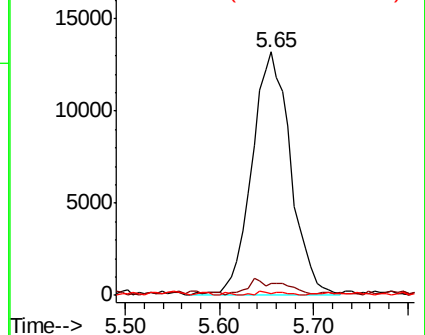
121 0.5 25.4 38.2#



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



#49

1,4-Dioxane

Concen: 1.107 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

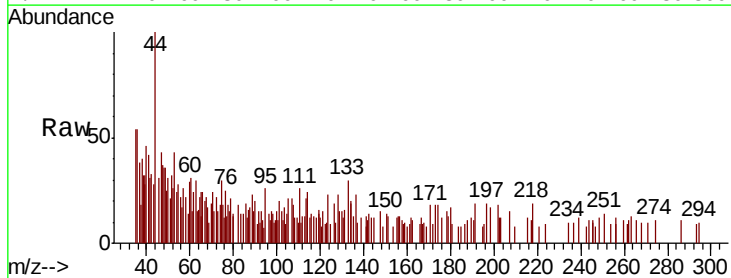
Tgt Ion: 88 Resp: 107

Ion Ratio Lower Upper

88 100

43 177.6 27.0 40.4#

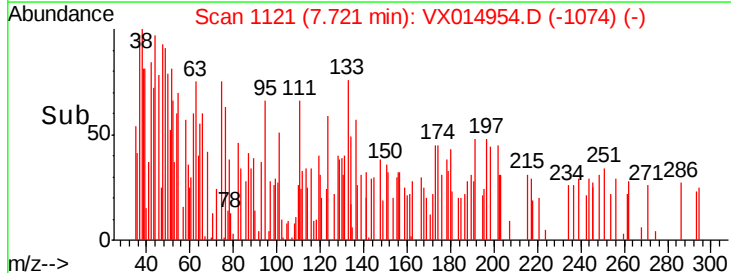
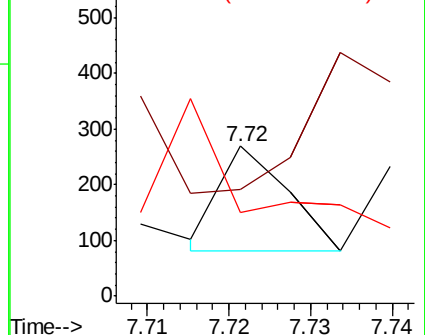
58 0.0 53.2 79.8#

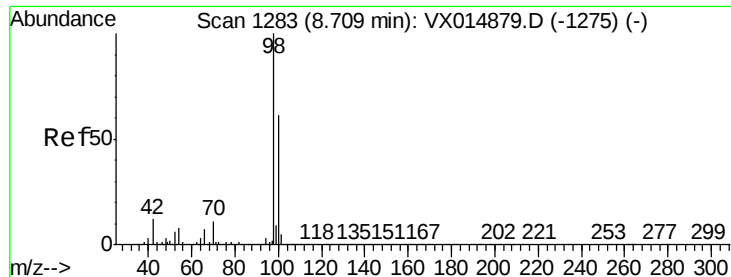


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.881 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

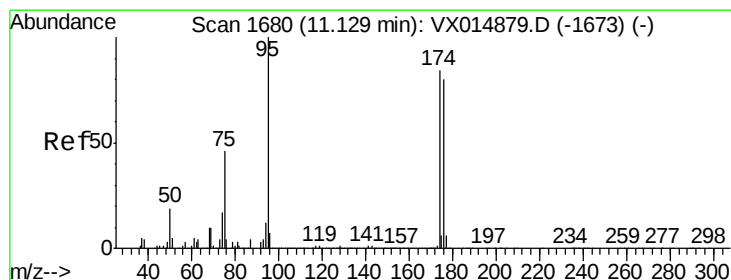
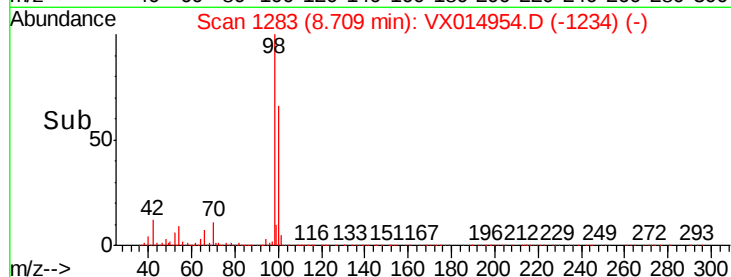
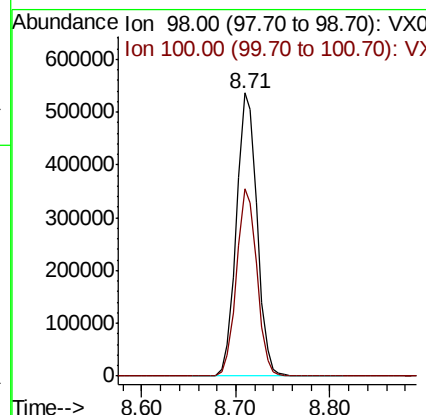
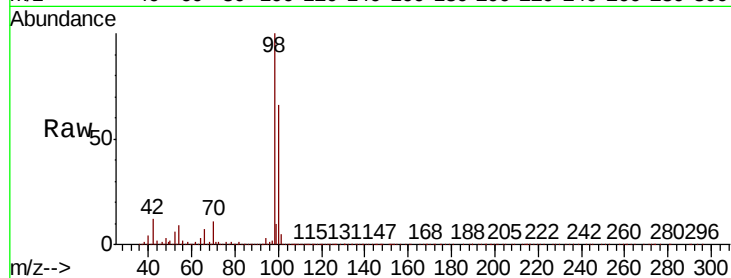
KY038PS038-200217

Tot Ion: 98 Resp: 815290

Ion Ratio Lower Upper

98 100

100 65.5 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 53.002 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

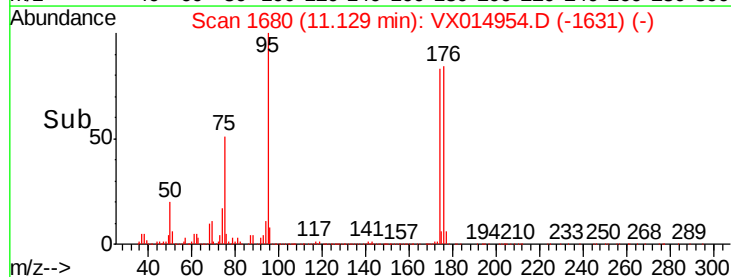
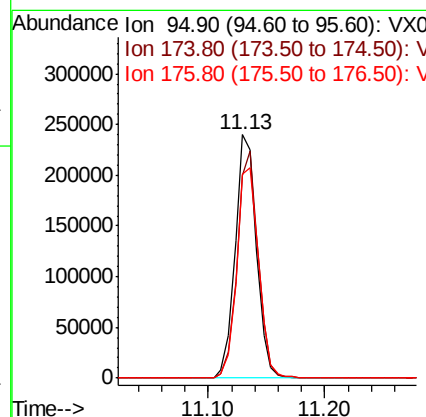
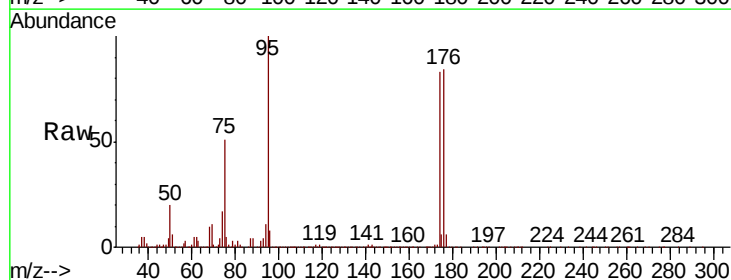
Tgt Ion: 95 Resp: 305935

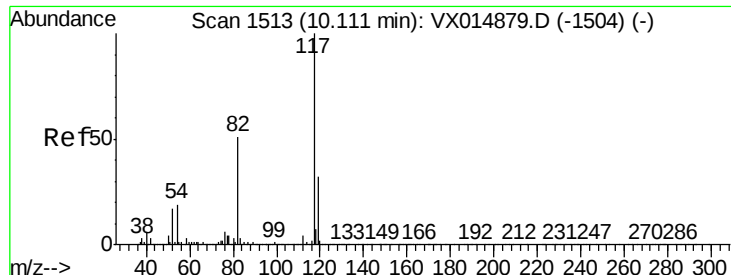
Ion Ratio Lower Upper

95 100

174 91.3 0.0 183.0

176 88.8 0.0 178.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

KY038PS038-200217

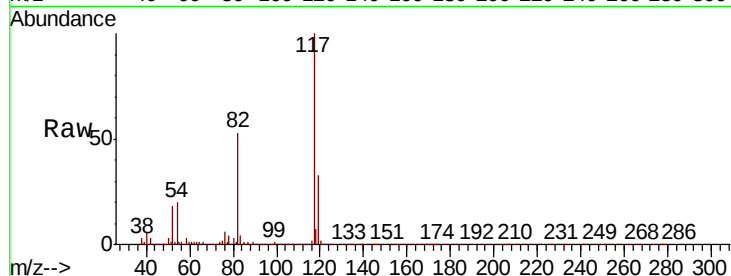
Tot Ion:117 Resp: 661567

Ion Ratio Lower Upper

117 100

82 53.2 40.5 60.7

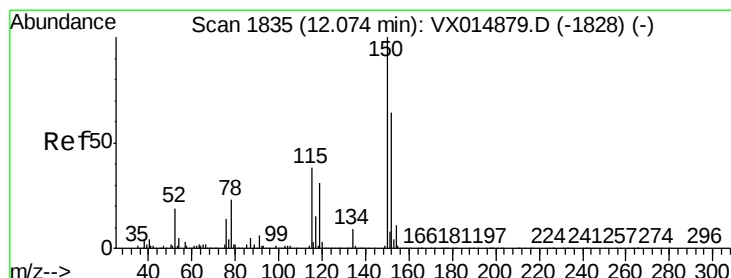
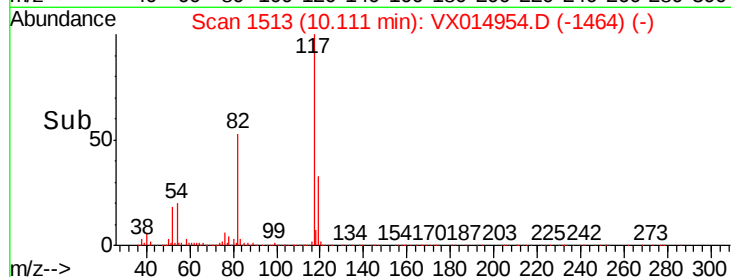
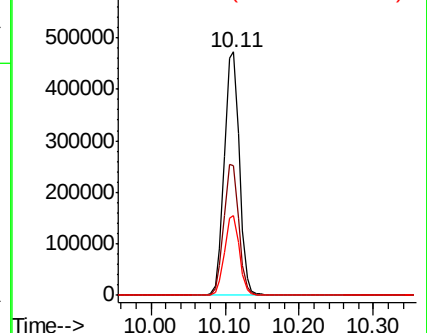
119 32.5 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

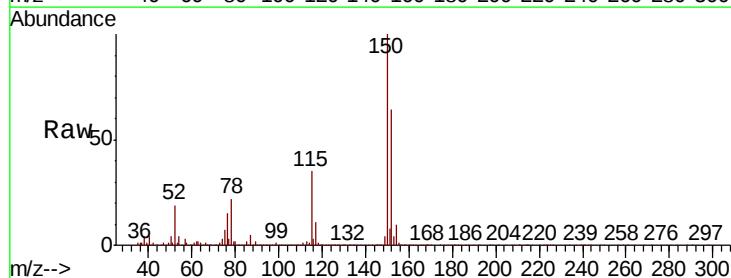
Tgt Ion:152 Resp: 351028

Ion Ratio Lower Upper

152 100

115 54.3 38.6 116.0

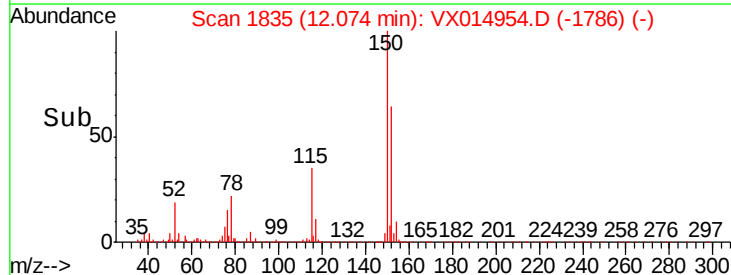
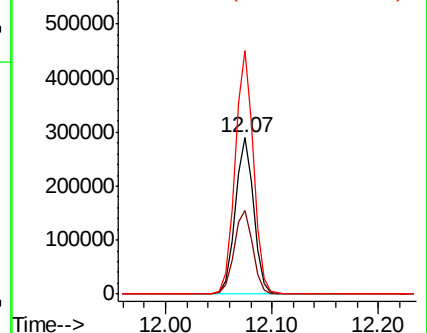
150 154.7 0.0 349.0

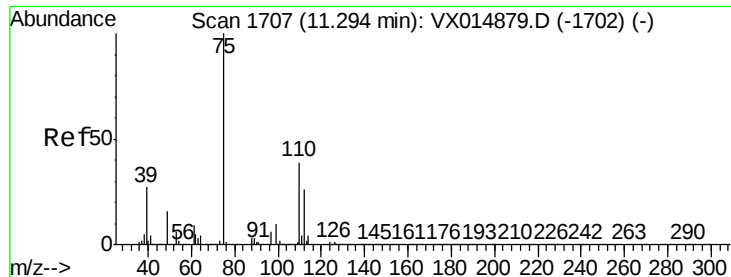


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.350 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

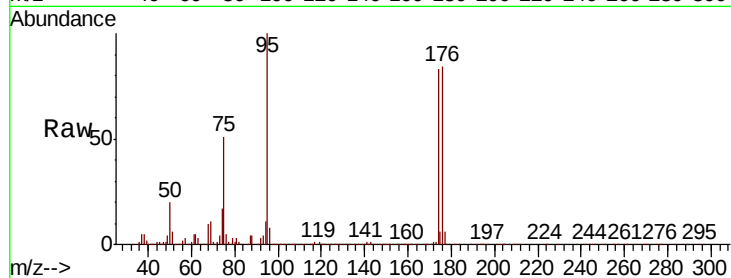
KY038PS038-200217

Tot Ion: 75 Resp: 154567

Ion Ratio Lower Upper

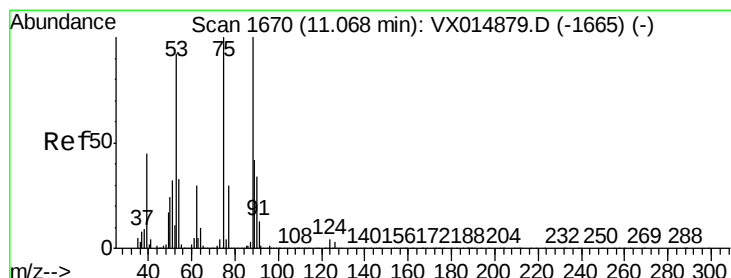
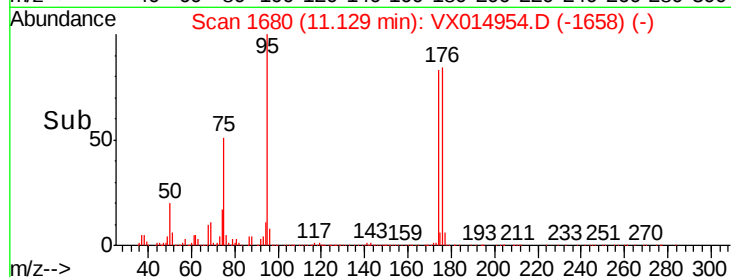
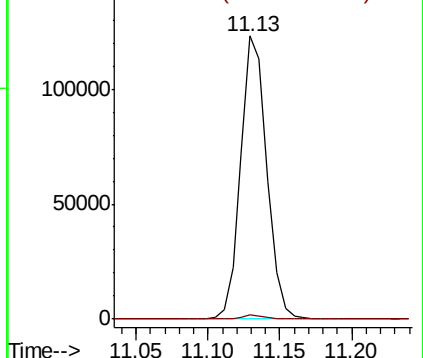
75 100

77 1.6 18.4 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 62.329 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014954.D

Acq: 18 Feb 2020 13:08

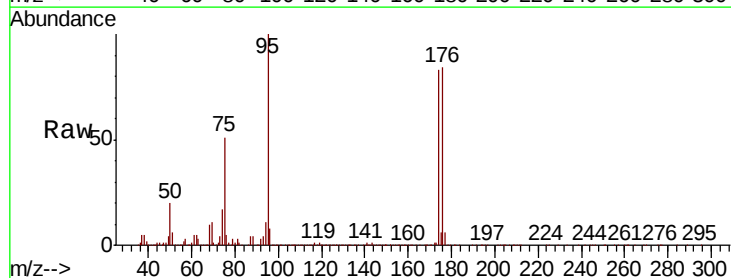
Tgt Ion: 75 Resp: 154567

Ion Ratio Lower Upper

75 100

53 0.2 76.2 114.2#

89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

