

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042519\  
 Data File : VX009155.D  
 Acq On : 25 Apr 2019 12:15  
 Operator : JC/SP  
 Sample : VX0425WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0425WBL01

Quant Time: Apr 26 04:22:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X041519W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 17 06:47:58 2019  
 Response via : Initial Calibration

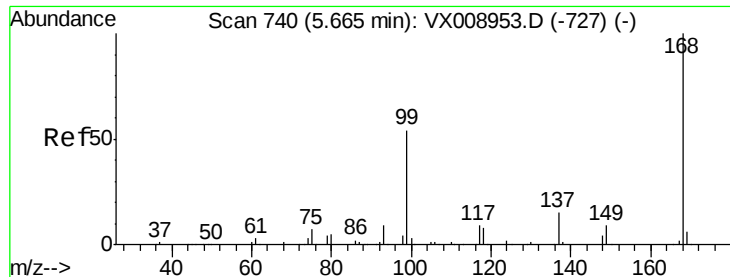
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 221615   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 353697   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 308020   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 130168   | 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   | 146858   | 47.02 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.04% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 108383   | 47.75 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.50% |          |
| 50) Toluene-d8              | 8.71  | 98   | 442381   | 48.87 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.74% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 148710   | 46.54 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.08% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 633      | 4.154     | ug/l # | 27     |
| 6) Chloroethane                | 1.64  | 64   | 7803     | 4.351     | ug/l # | 50     |
| 10) Methyl Iodide              | 2.51  | 142  | 146      | 4.468     | ug/l # | 73     |
| 11) Tert butyl alcohol         | 3.04  | 59   | 185      | 0.267     | ug/l   | 99     |
| 13) Acrolein                   | 2.30  | 56   | 191      | 0.319     | ug/l   | 87     |
| 15) Acrylonitrile              | 3.14  | 53   | 362      | 0.206     | ug/l # | 73     |
| 16) Acetone                    | 2.44  | 43   | 684      | 0.422     | ug/l   | 94     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1105     | 1.407     | ug/l # | 68     |
| 20) Methylene Chloride         | 2.85  | 84   | 630      | 0.227     | ug/l # | 77     |
| 28) Bromochloromethane         | 5.02  | 49   | 127      | Below Cal | #      | 21     |
| 31) Cyclohexane                | 5.66  | 56   | 4890     | 0.983     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 17101    | 4.675     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 20543    | 6.624     | ug/l # | 18     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 22       | 0.314     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 74884    | 23.560    | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 74884    | 60.485    | ug/l # | 11     |

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

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Sample : VX0425WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 4 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

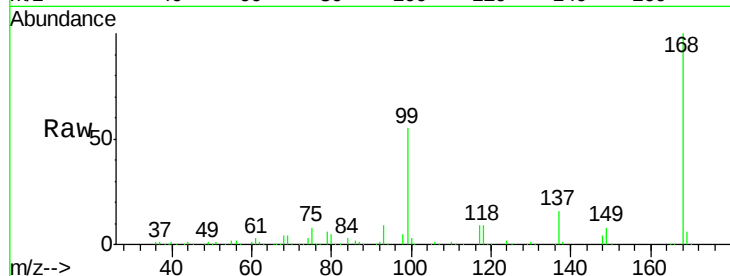
VX0425WBL01

Tot Ion:168 Resp: 221615

Ion Ratio Lower Upper

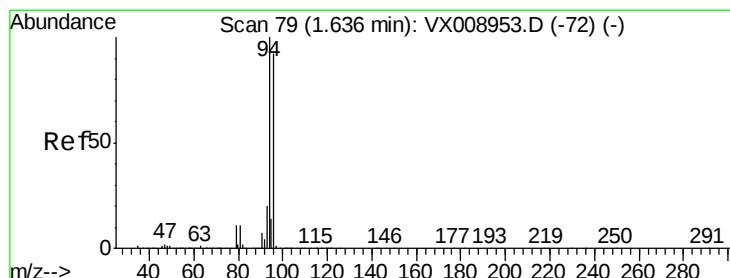
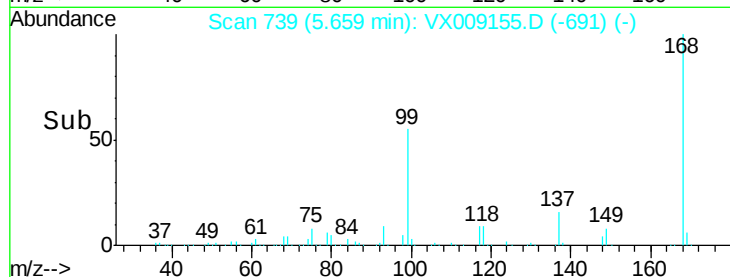
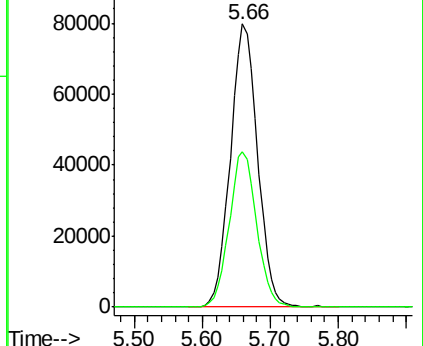
168 100

99 54.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 4.154 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009155.D

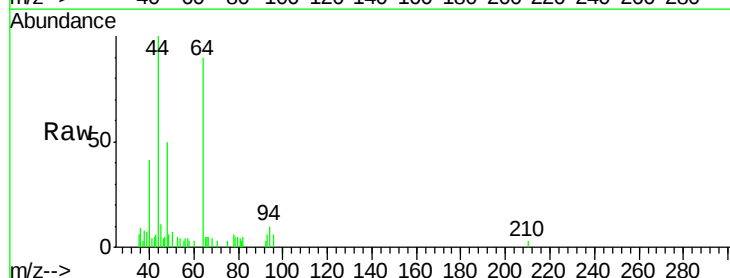
Acq: 25 Apr 2019 12:15

Tgt Ion: 94 Resp: 633

Ion Ratio Lower Upper

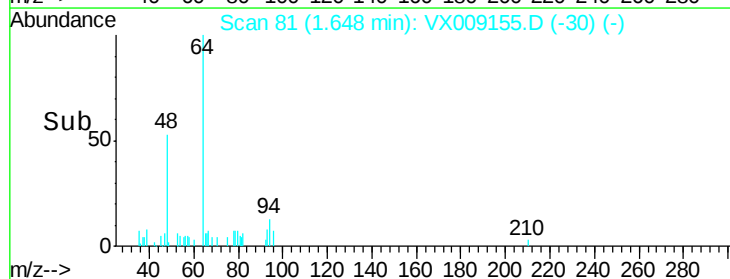
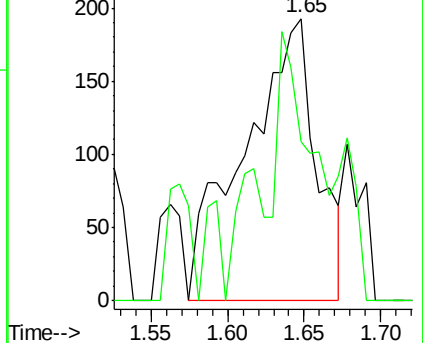
94 100

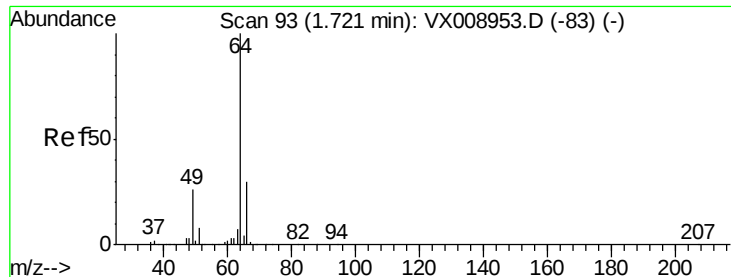
96 22.8 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 4.351 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.08 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

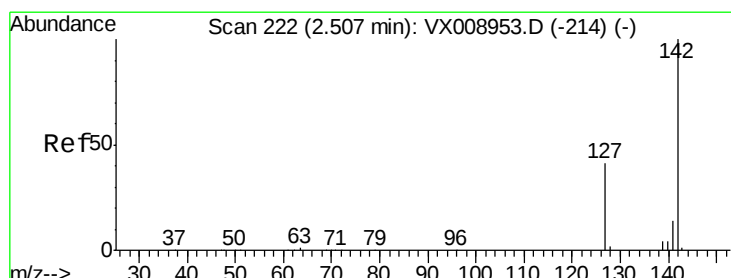
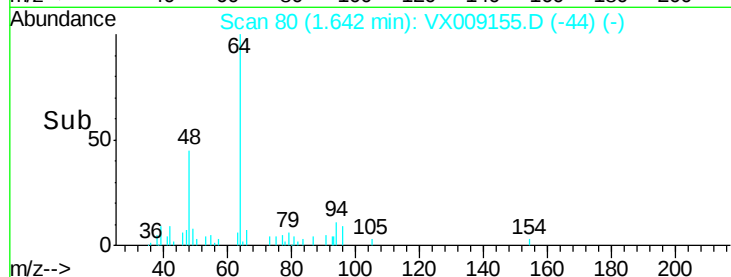
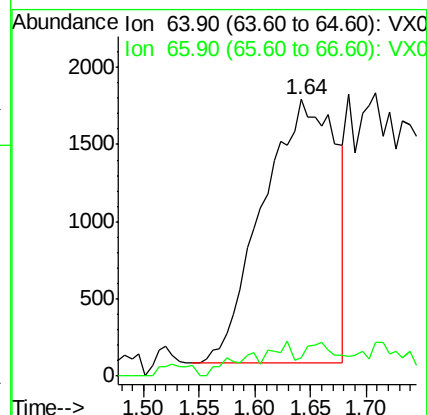
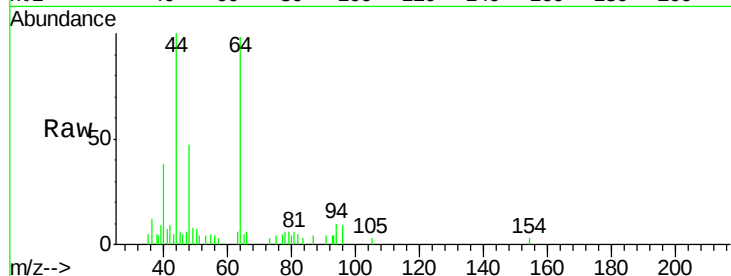
VX0425WBL01

Tot Ion: 64 Resp: 7803

Ion Ratio Lower Upper

64 100

66 2.9 24.2 36.2#



#10

Methyl Iodide

Concen: 4.468 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

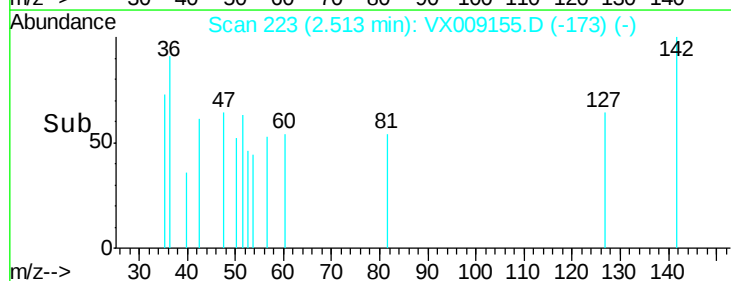
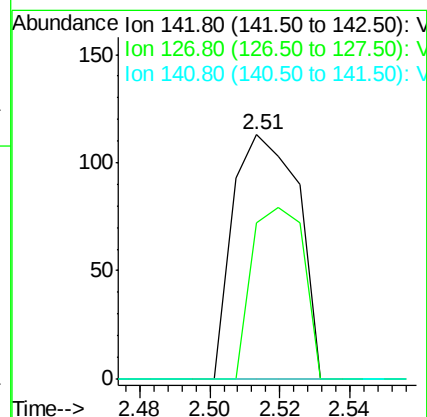
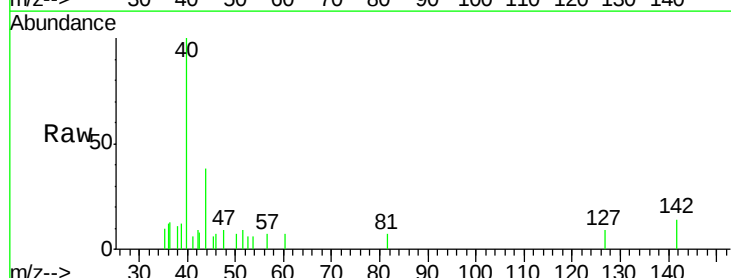
Tgt Ion: 142 Resp: 146

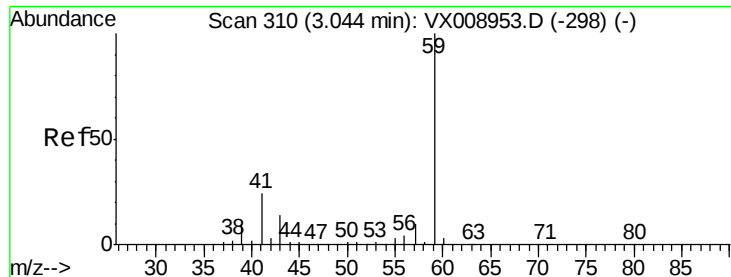
Ion Ratio Lower Upper

142 100

127 56.2 32.8 49.2#

141 0.0 11.4 17.2#

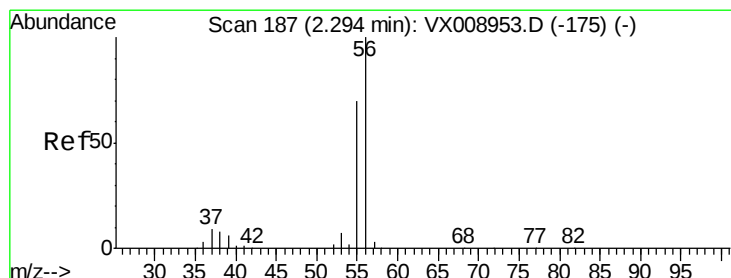
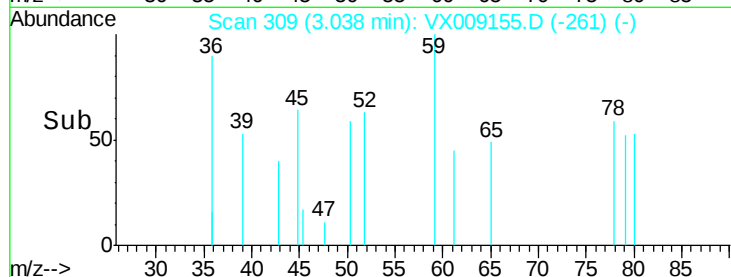
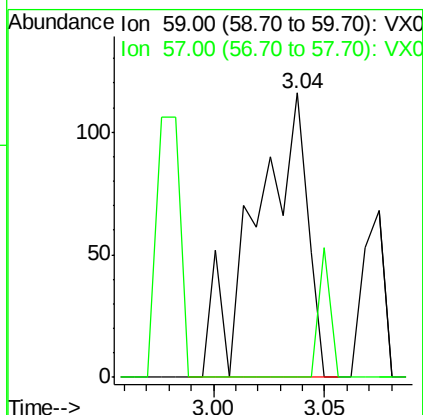
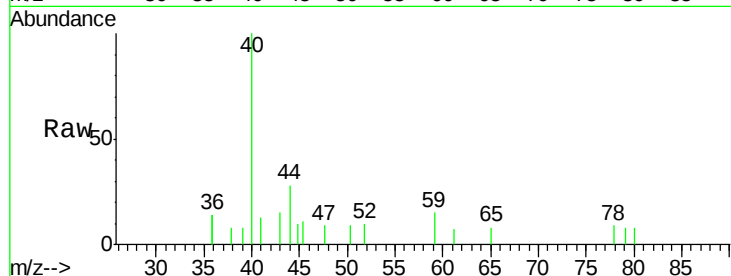




#11  
Tert butyl alcohol  
Concen: 0.267 ug/l  
RT: 3.04 min Scan# 309  
Delta R.T. -0.01 min  
Lab File: VX009155.D  
Acq: 25 Apr 2019 12:15

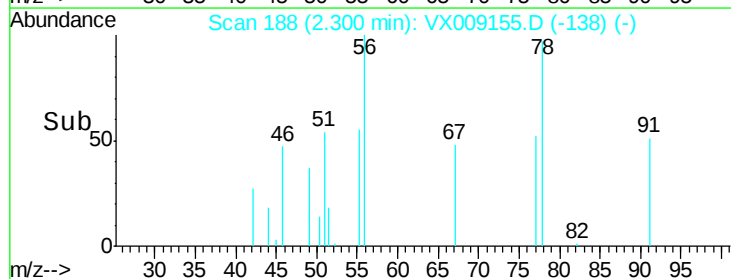
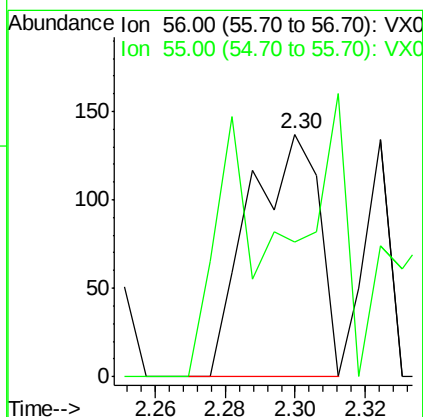
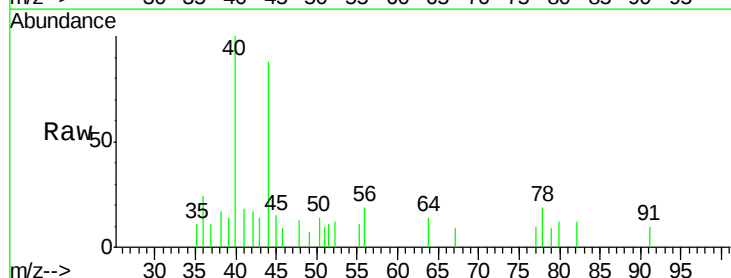
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0425WBL01

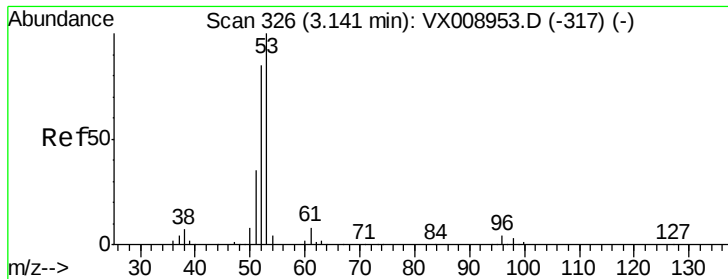
Tot Ion: 59 Resp: 185  
Ion Ratio Lower Upper  
59 100  
57 10.3 8.4 12.6



#13  
Acrolein  
Concen: 0.319 ug/l  
RT: 2.30 min Scan# 188  
Delta R.T. 0.01 min  
Lab File: VX009155.D  
Acq: 25 Apr 2019 12:15

Tgt Ion: 56 Resp: 191  
Ion Ratio Lower Upper  
56 100  
55 81.2 56.6 84.8





#15

Acrylonitrile

Concen: 0.206 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

VX0425WBL01

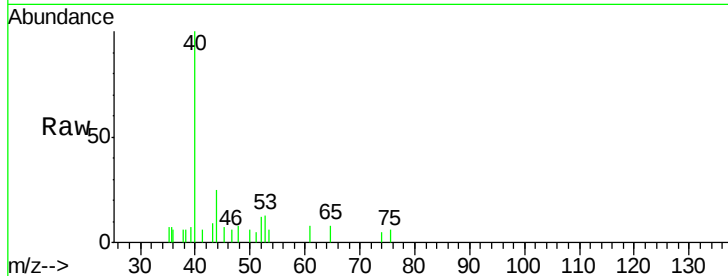
Tot Ion: 53 Resp: 362

Ion Ratio Lower Upper

53 100

52 66.3 66.6 100.0#

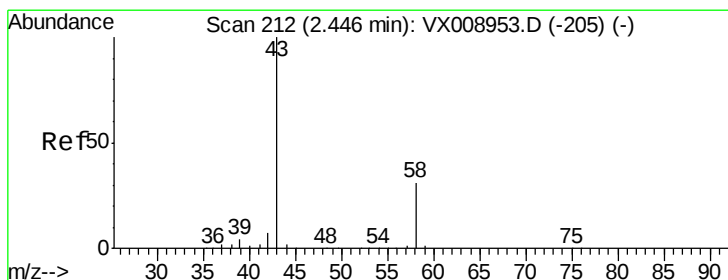
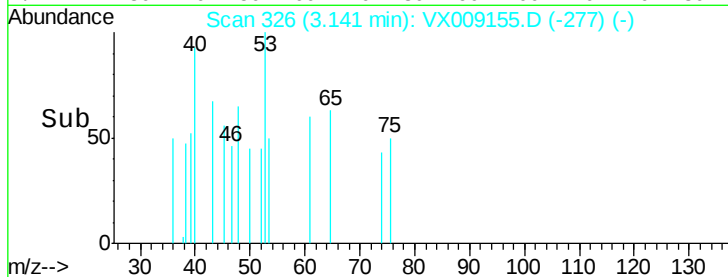
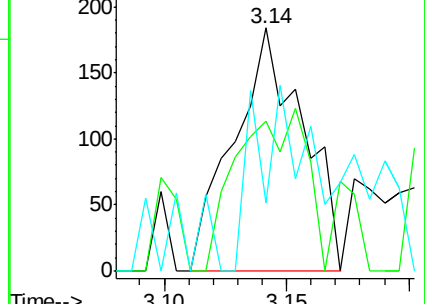
51 63.3 28.3 42.5#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.422 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009155.D

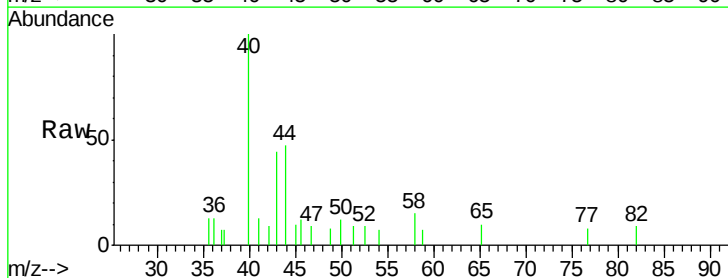
Acq: 25 Apr 2019 12:15

Tgt Ion: 43 Resp: 684

Ion Ratio Lower Upper

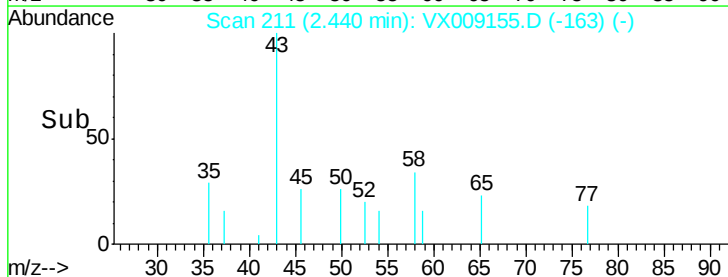
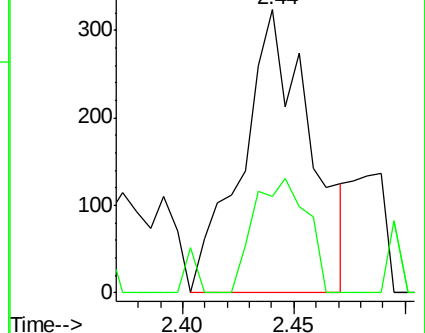
43 100

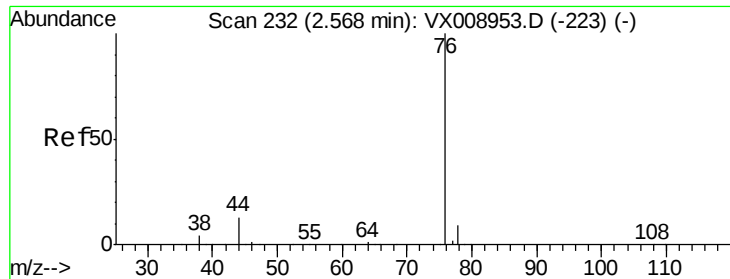
58 34.1 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.407 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

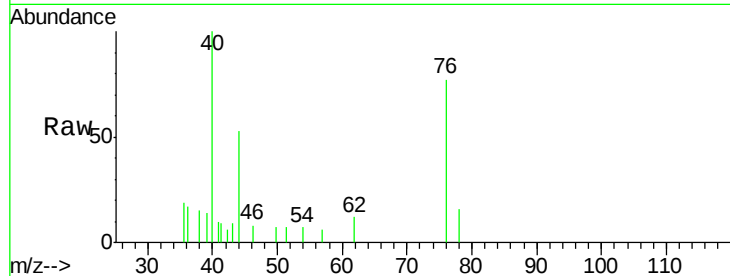
VX0425WBL01

Tot Ion: 76 Resp: 1105

Ion Ratio Lower Upper

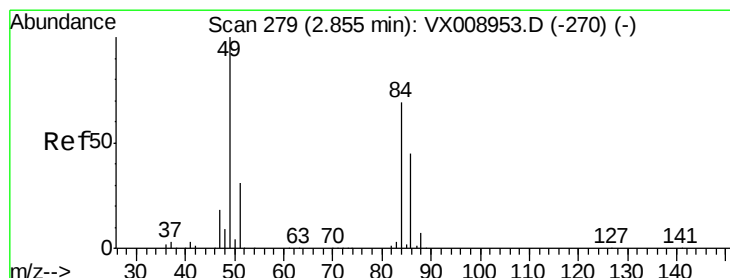
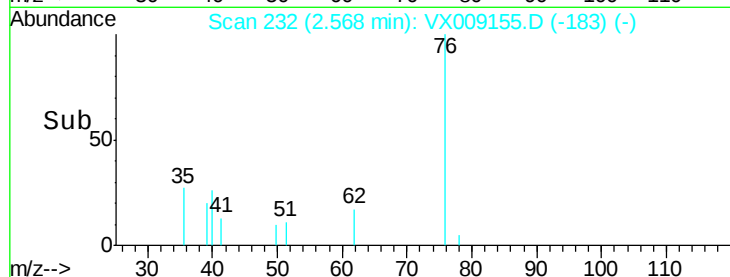
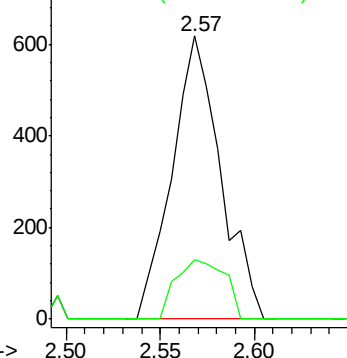
76 100

78 20.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.227 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Tgt Ion: 84 Resp: 630

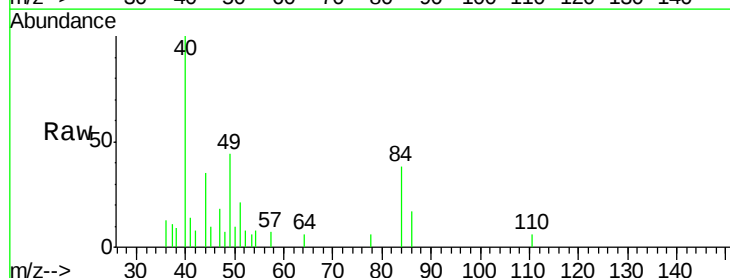
Ion Ratio Lower Upper

84 100

49 113.7 115.4 173.0#

51 54.4 35.8 53.6#

86 44.2 52.1 78.1#

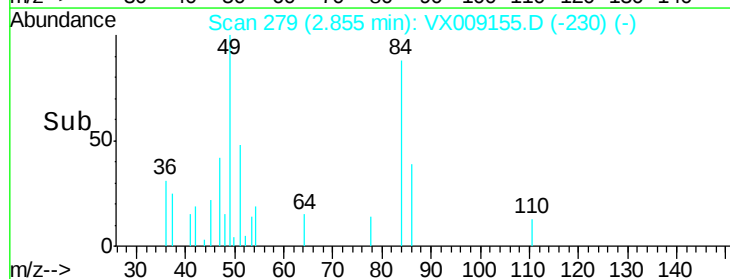
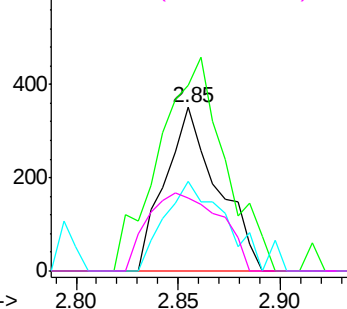


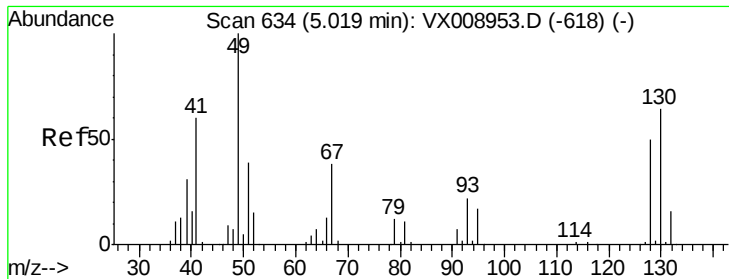
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

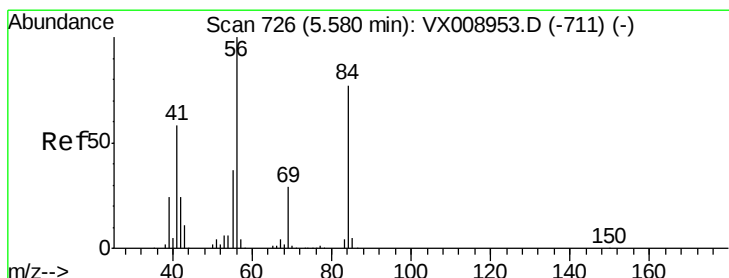
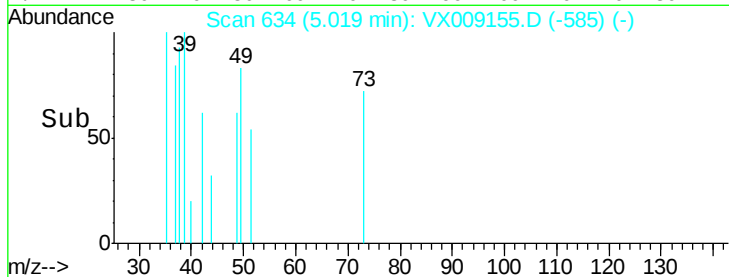
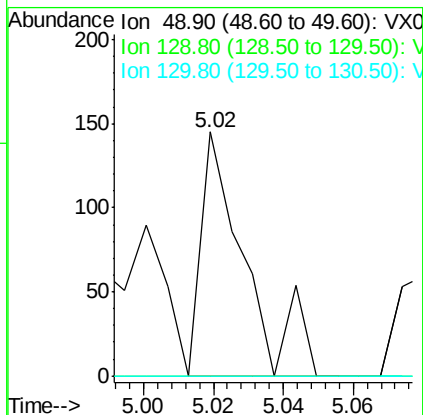
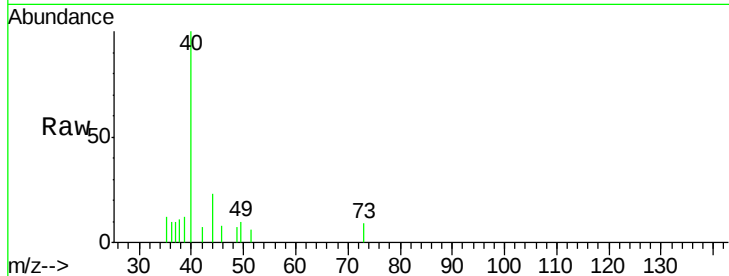
Delta R.T. 0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0425WBL01

Tot Ion: 49 Resp: 127  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 50.4 75.6#



#31

Cyclohexane

Concen: 0.983 ug/l

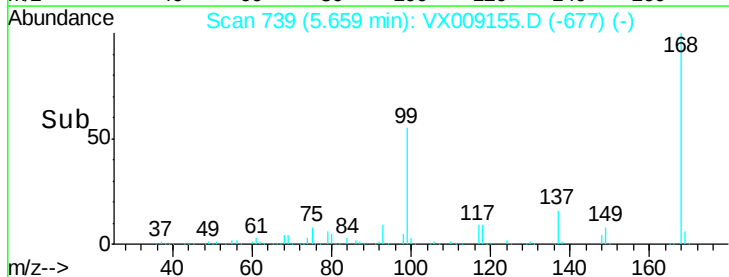
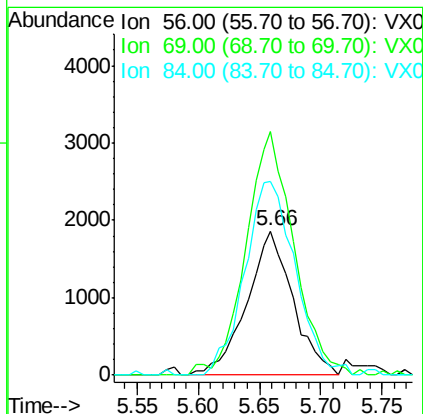
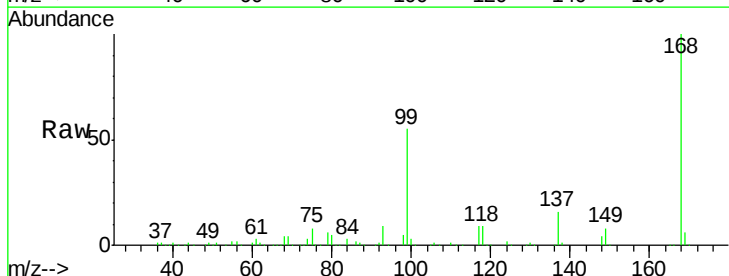
RT: 5.66 min Scan# 739

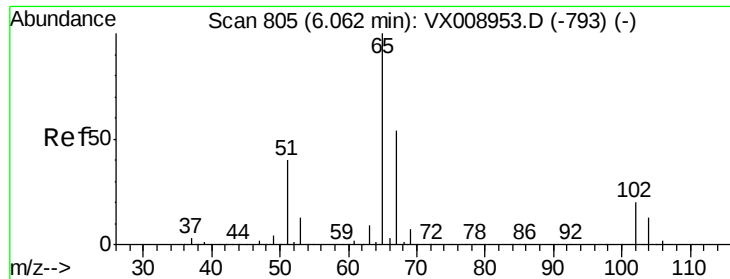
Delta R.T. 0.08 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Tgt Ion: 56 Resp: 4890  
Ion Ratio Lower Upper  
56 100  
69 168.6 23.3 34.9#  
84 133.8 61.7 92.5#

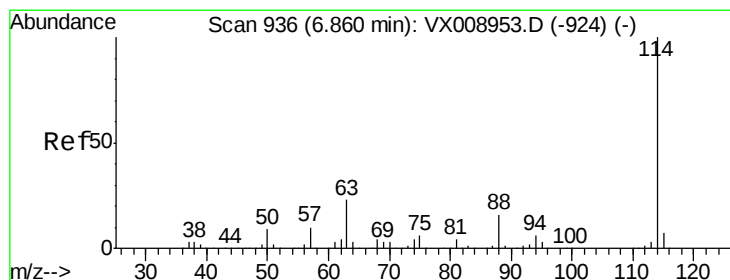
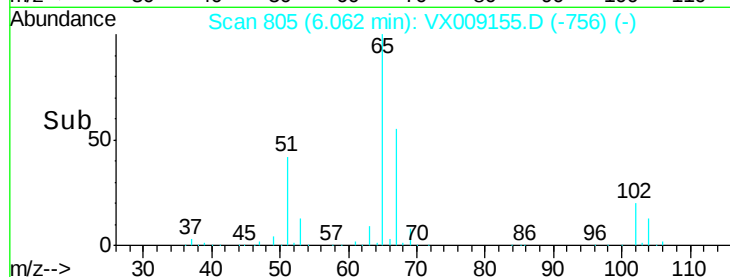
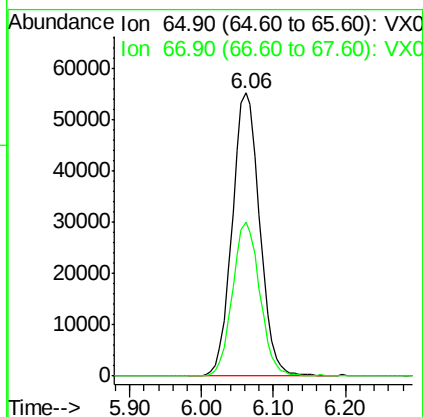
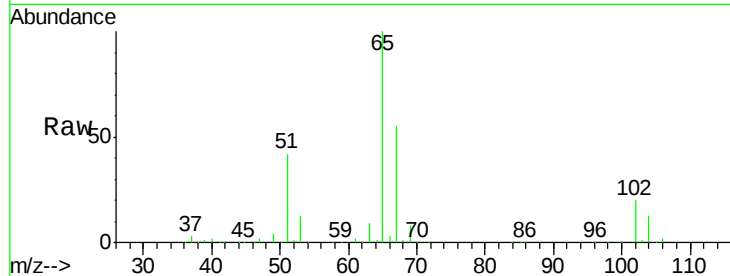




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.022 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: VX009155.D  
 Acq: 25 Apr 2019 12:15

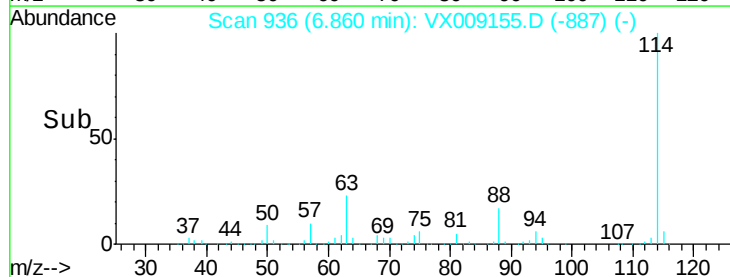
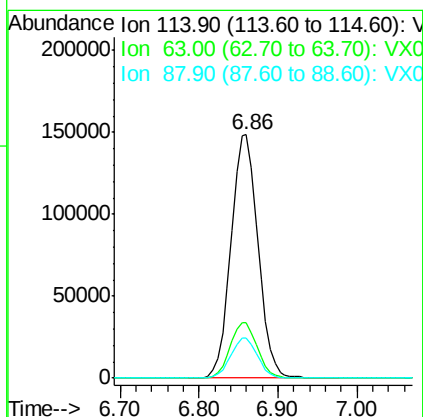
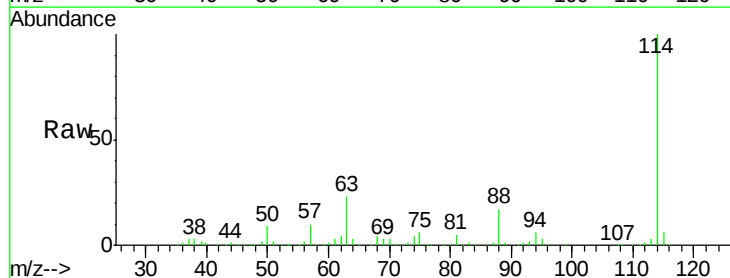
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0425WBL01

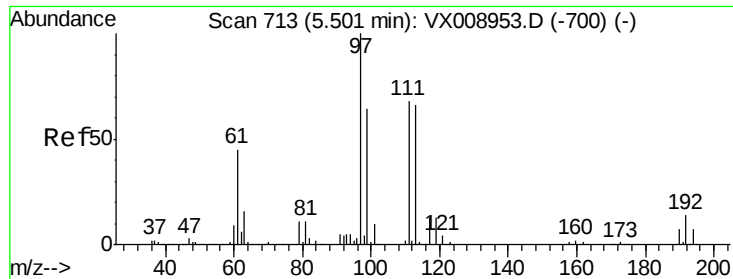
Tot Ion: 65 Resp: 146858  
 Ion Ratio Lower Upper  
 65 100  
 67 54.1 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX009155.D  
 Acq: 25 Apr 2019 12:15

Tgt Ion: 114 Resp: 353697  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 46.0  
 88 16.6 0.0 32.6

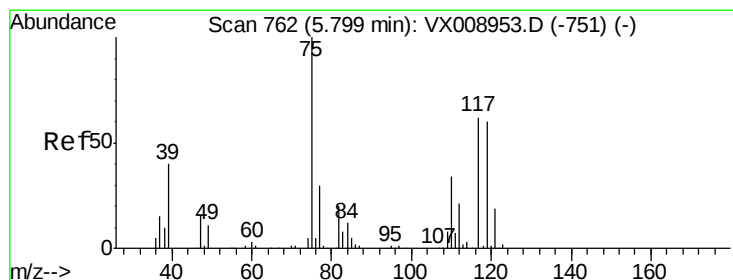
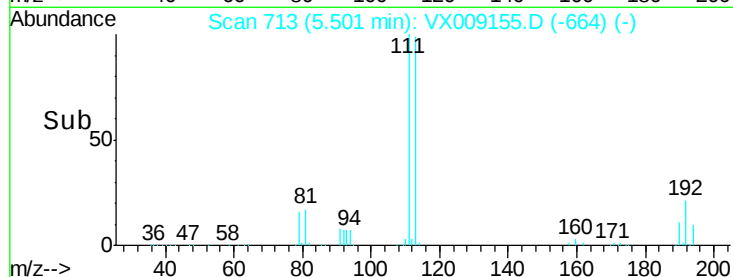
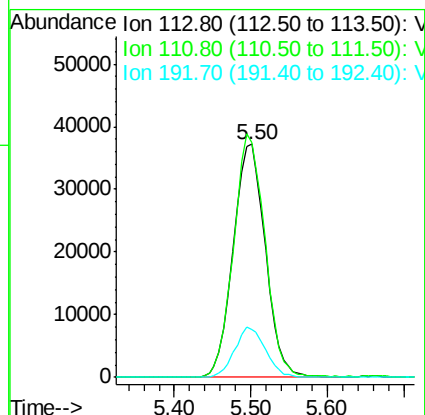
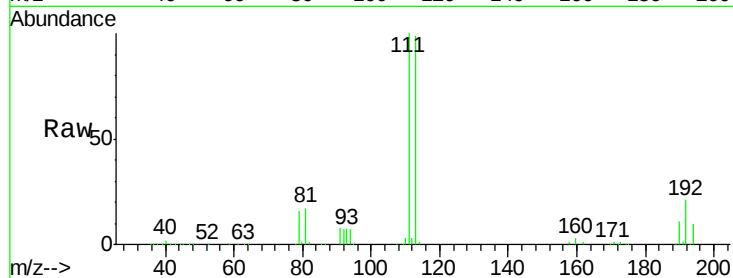




#35  
 Dibromofluoromethane  
 Concen: 47.747 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX009155.D  
 Acq: 25 Apr 2019 12:15

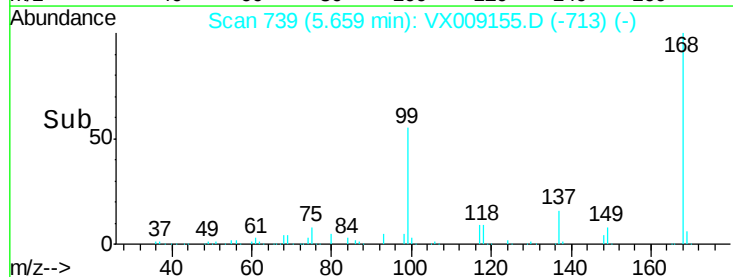
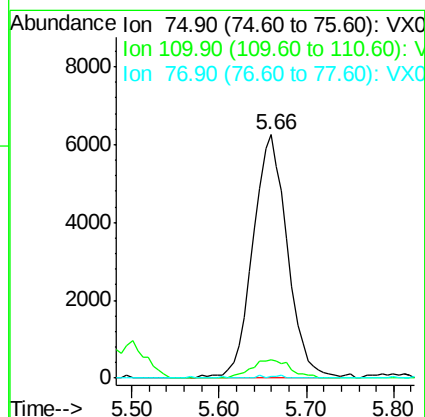
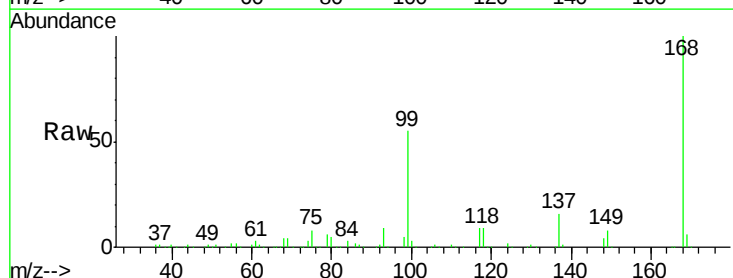
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0425WBL01

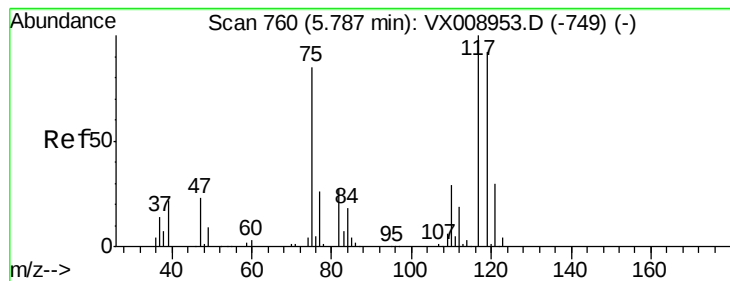
Tot Ion:113 Resp: 108383  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 82.9 124.3  
 192 20.7 17.4 26.0



#36  
 1,1-Dichloropropene  
 Concen: 4.675 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX009155.D  
 Acq: 25 Apr 2019 12:15

Tgt Ion: 75 Resp: 17101  
 Ion Ratio Lower Upper  
 75 100  
 110 8.5 16.9 50.7#  
 77 0.4 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.624 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

VX0425WBL01

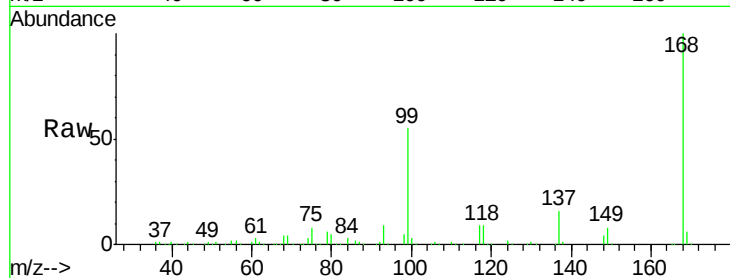
Tot Ion:117 Resp: 20543

Ion Ratio Lower Upper

117 100

119 5.4 73.8 110.8#

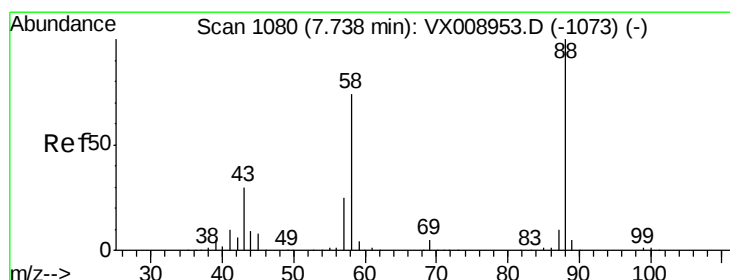
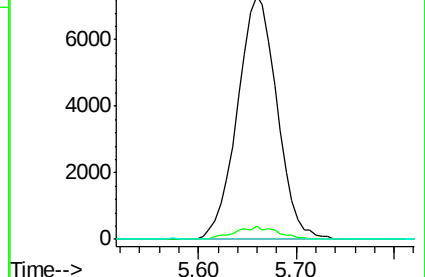
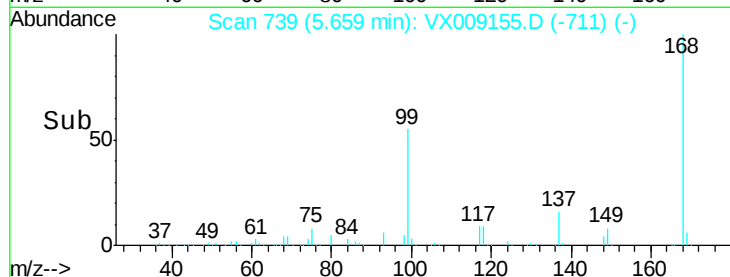
121 0.0 23.6 35.4#



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: 0.314 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

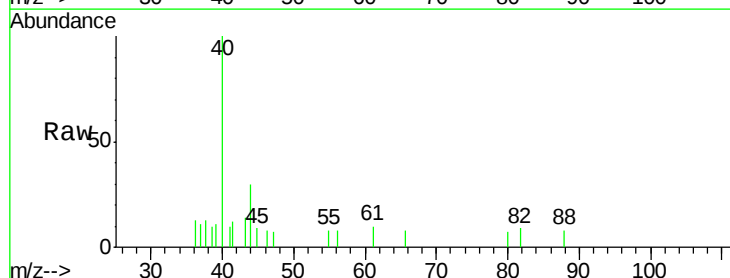
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 431.8 29.3 43.9#

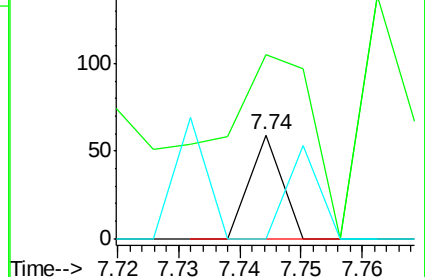
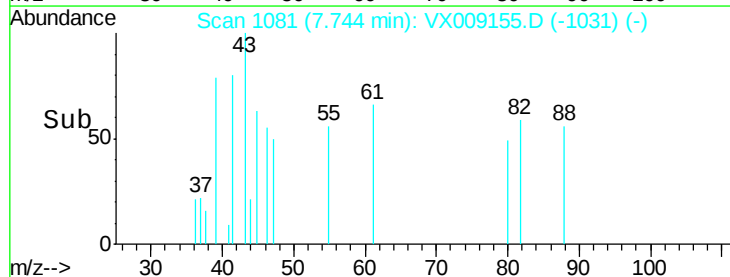
58 86.4 62.6 93.8

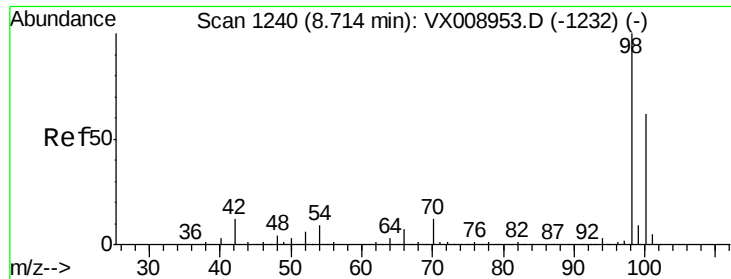


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.868 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

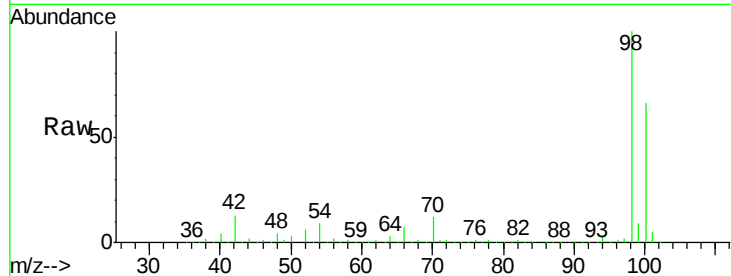
VX0425WBL01

Tot Ion: 98 Resp: 442381

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

300000

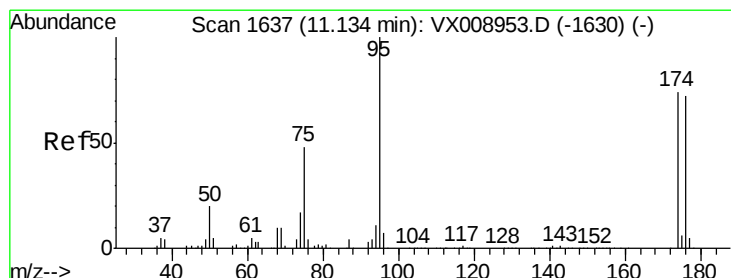
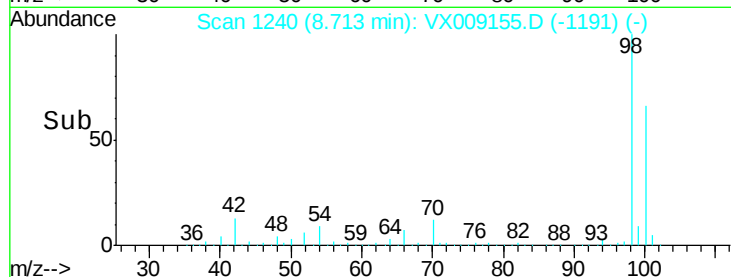
200000

100000

0

Time-->

8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 46.536 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

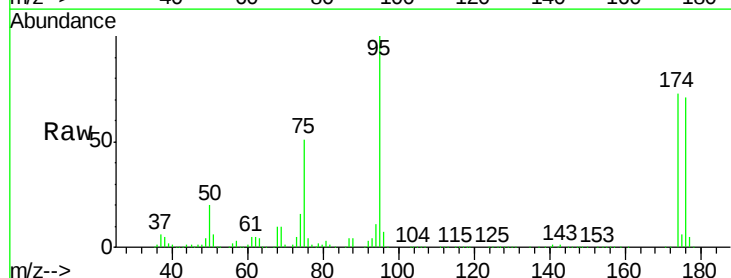
Tgt Ion: 95 Resp: 148710

Ion Ratio Lower Upper

95 100

174 78.0 0.0 159.6

176 75.6 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

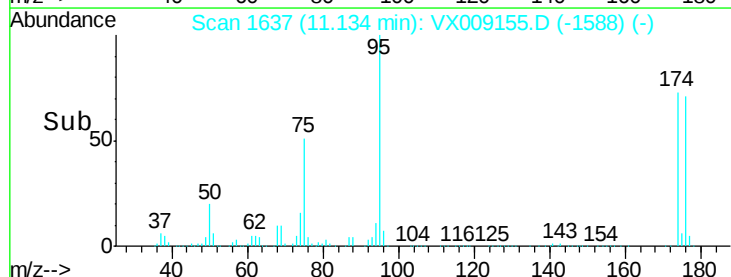
100000

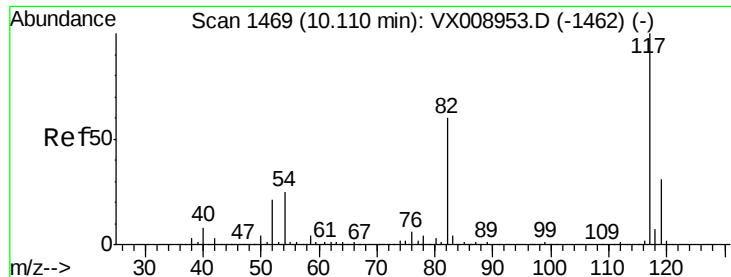
50000

0

Time-->

11.05 11.10 11.15 11.20





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

VX0425WBL01

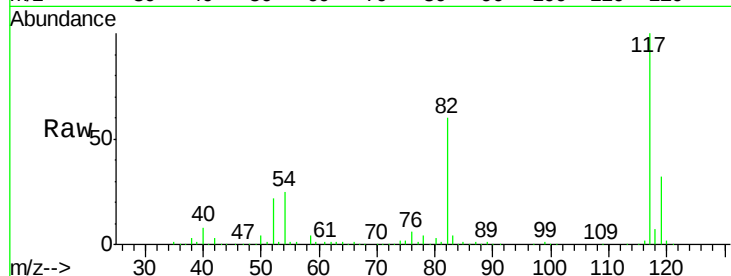
Tot Ion:117 Resp: 308020

Ion Ratio Lower Upper

117 100

82 59.8 48.2 72.4

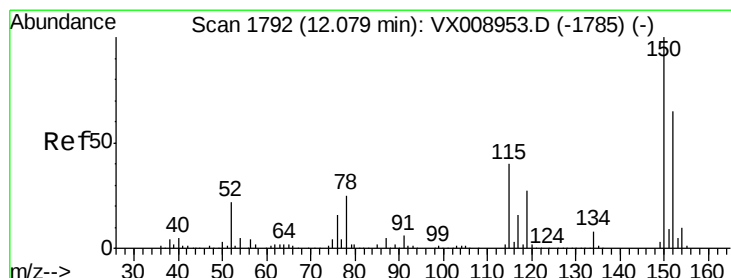
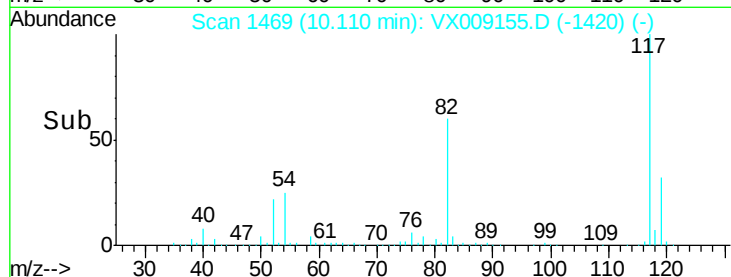
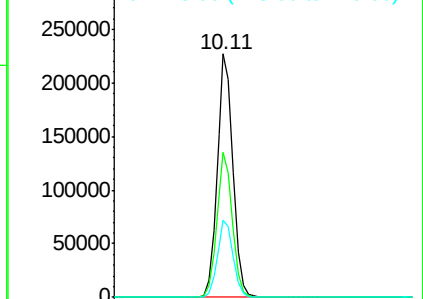
119 31.8 25.0 37.6



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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

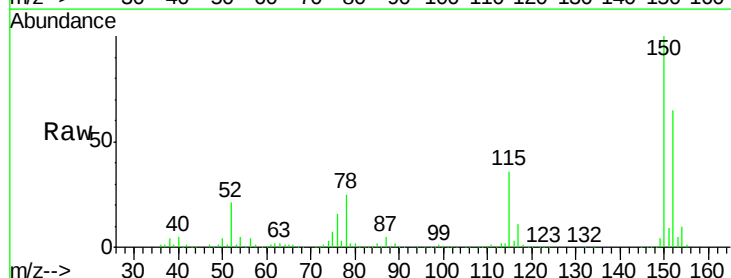
Tgt Ion:152 Resp: 130168

Ion Ratio Lower Upper

152 100

115 58.8 41.4 124.2

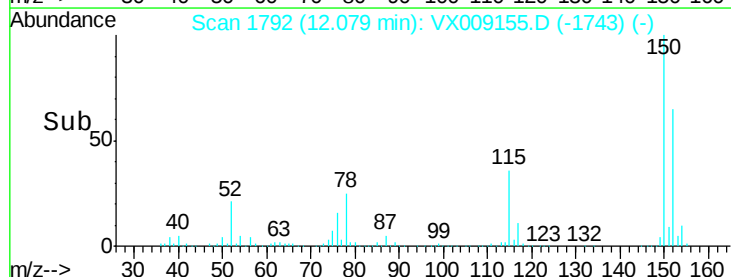
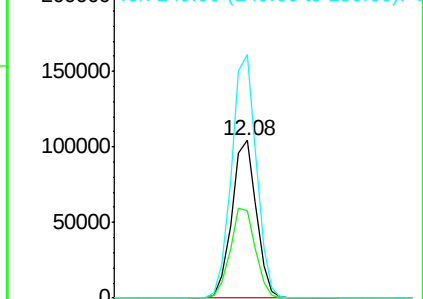
150 156.9 0.0 349.8

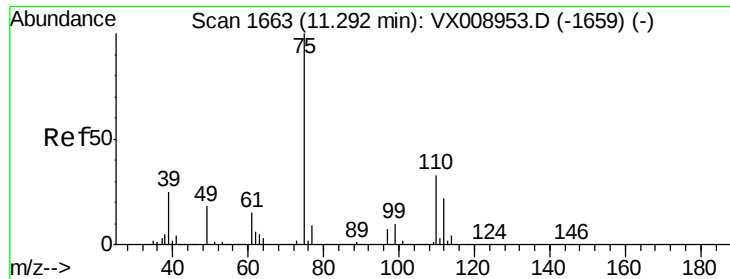


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.560 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

Instrument :

MSVOA\_X

ClientSampleId :

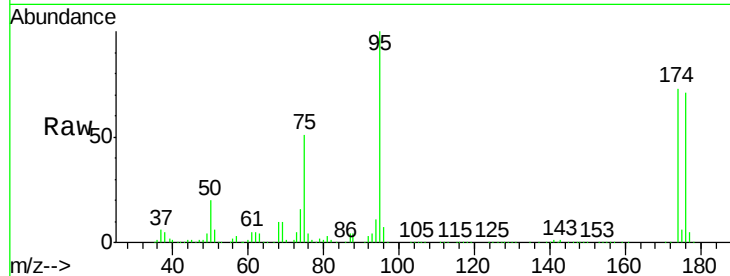
VX0425WBL01

Tot Ion: 75 Resp: 74884

Ion Ratio Lower Upper

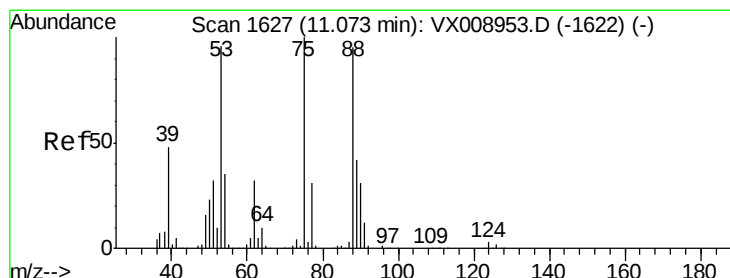
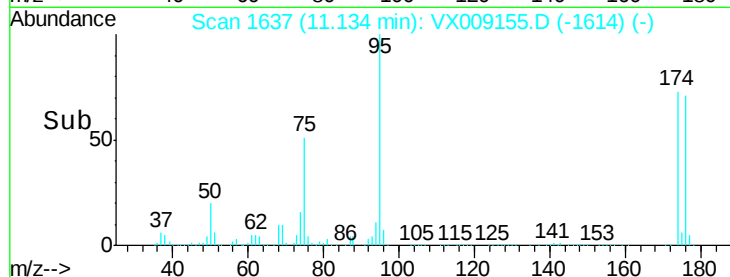
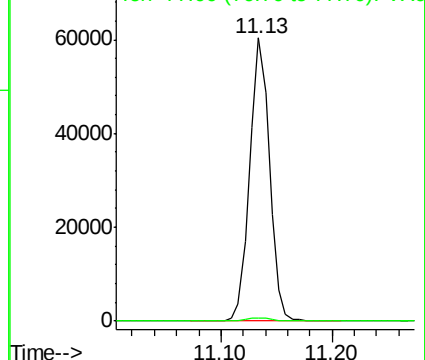
75 100

77 1.4 22.7 68.0#



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: 60.485 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009155.D

Acq: 25 Apr 2019 12:15

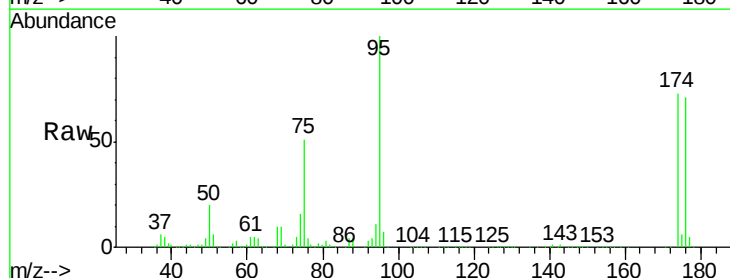
Tgt Ion: 75 Resp: 74884

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 36.0 54.0#



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

