

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\  
 Data File : VX008890.D  
 Acq On : 12 Apr 2019 16:40  
 Operator : JC/SP  
 Sample : K2366-11  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-SW201-20190409

Quant Time: Apr 13 04:59:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 192656   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 312932   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 268581   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 110265   | 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   | 128924   | 45.88 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.76% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 94395    | 47.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.36% |          |
| 50) Toluene-d8              | 8.71  | 98   | 389980   | 48.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.90% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 126725   | 44.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.72% |          |

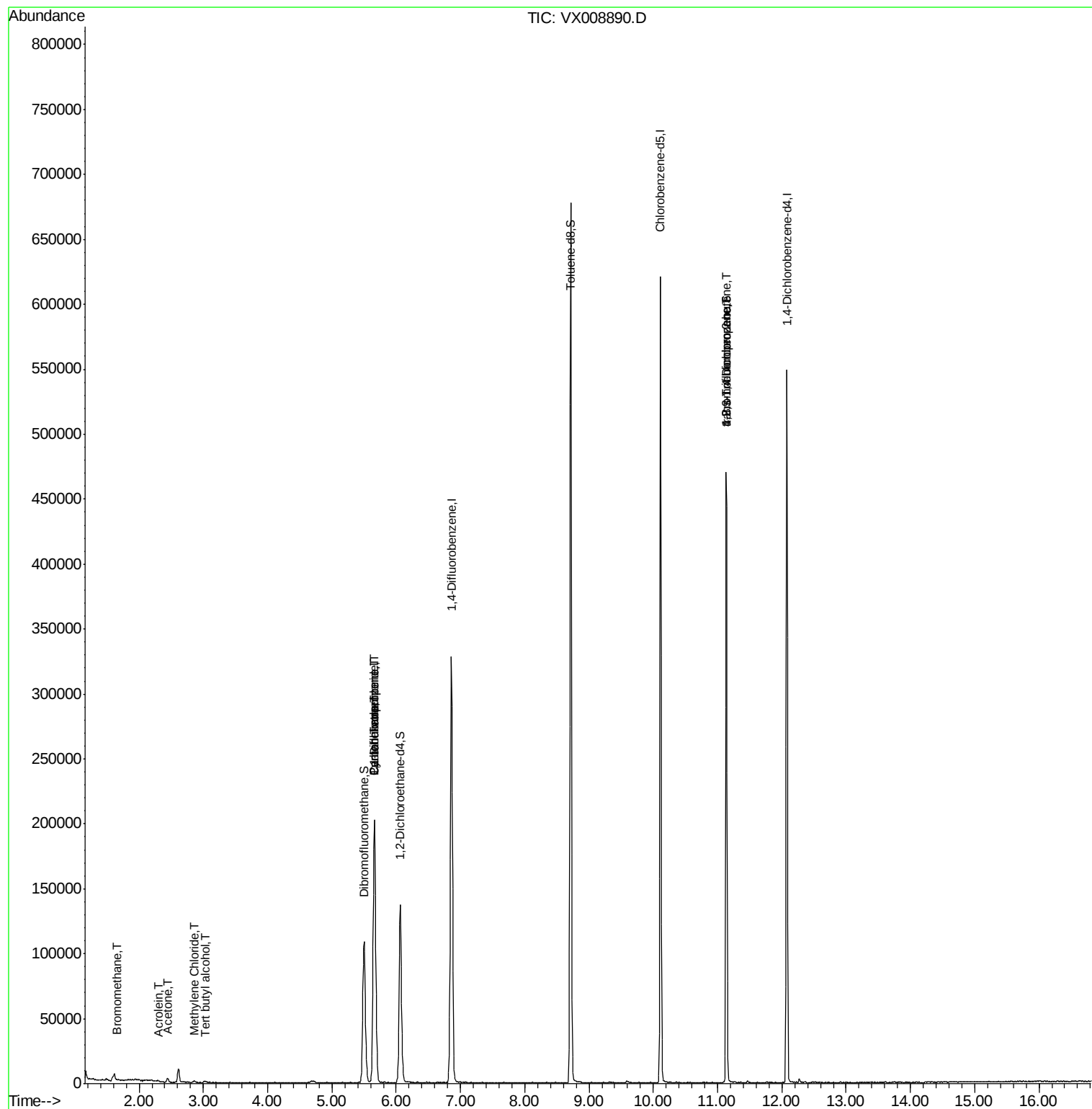
| Target Compounds               | R.T.  | QIon | Response | Conc          | Units | Qvalue |
|--------------------------------|-------|------|----------|---------------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 339      | Below Cal     |       | 93     |
| 5) Bromomethane                | 1.65  | 94   | 267      | 2.059 ug/l #  |       | 3      |
| 6) Chloroethane                | 1.68  | 64   | 160      | Below Cal #   |       | 43     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 750      | 1.140 ug/l #  |       | 72     |
| 13) Acrolein                   | 2.31  | 56   | 338      | 1.036 ug/l #  |       | 74     |
| 16) Acetone                    | 2.45  | 43   | 3912     | 2.417 ug/l #  |       | 83     |
| 17) Carbon Disulfide           | 2.56  | 76   | 674      | Below Cal #   |       | 76     |
| 20) Methylene Chloride         | 2.86  | 84   | 625      | 0.231 ug/l #  |       | 77     |
| 28) Bromochloromethane         | 5.07  | 49   | 41       | Below Cal #   |       | 22     |
| 31) Cyclohexane                | 5.66  | 56   | 4425     | 0.911 ug/l #  |       | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 15285    | 4.468 ug/l #  |       | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 18513    | 6.539 ug/l #  |       | 17     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 64733    | 21.370 ug/l # |       | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 64733    | 58.909 ug/l # |       | 9      |

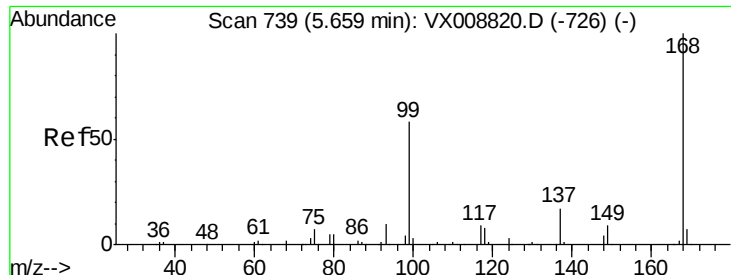
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Time: Apr 13 04:59:33 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 04 04:47:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

Instrument :

MSVOA\_X

ClientSampleId :

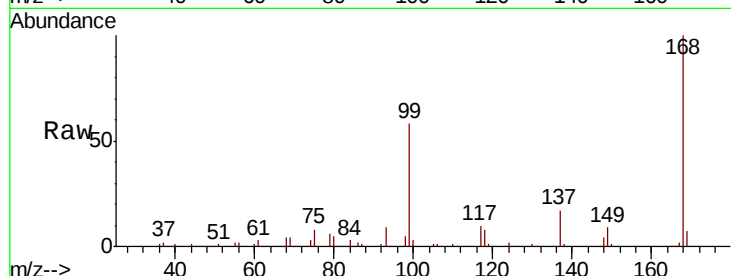
SA-SW201-20190409

Tot Ion:168 Resp: 192656

Ion Ratio Lower Upper

168 100

99 57.9 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

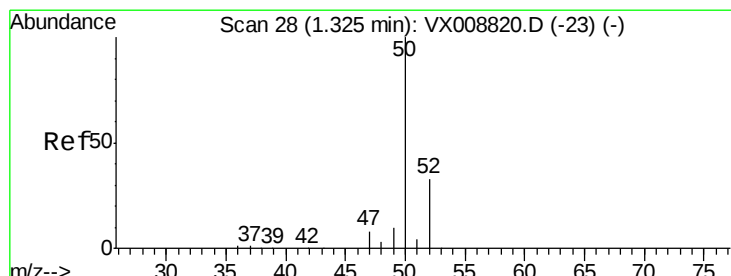
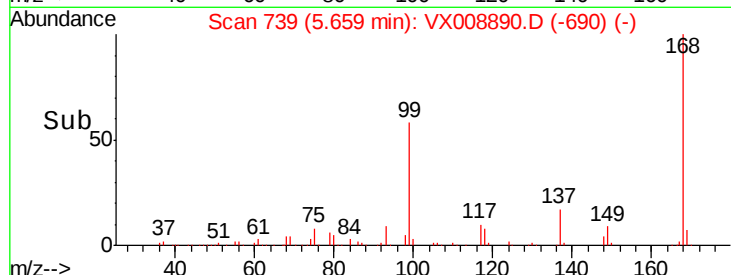
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008890.D

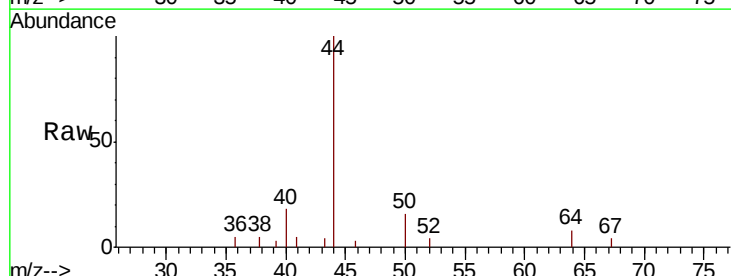
Acq: 12 Apr 2019 16:40

Tgt Ion: 50 Resp: 339

Ion Ratio Lower Upper

50 100

52 28.6 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

150

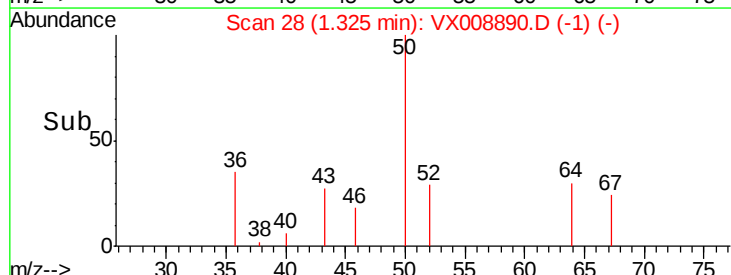
100

50

0

1.28 1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: 2.059 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

Instrument :

MSVOA\_X

ClientSampleId :

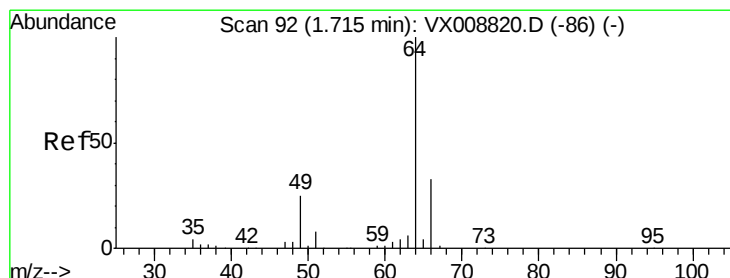
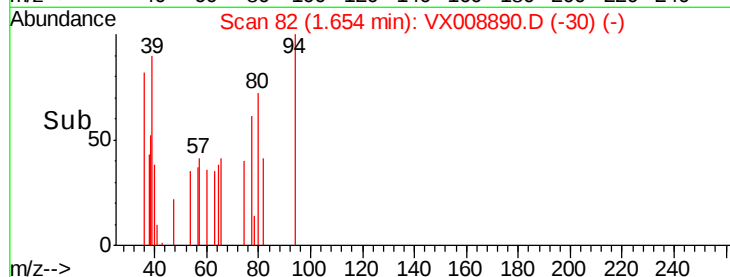
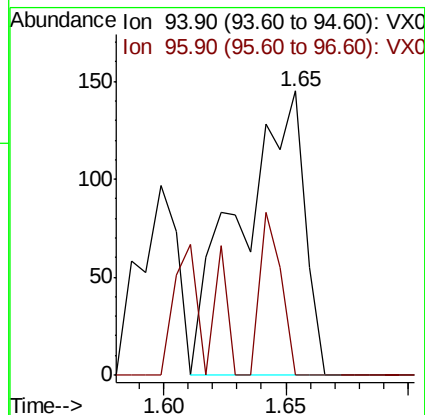
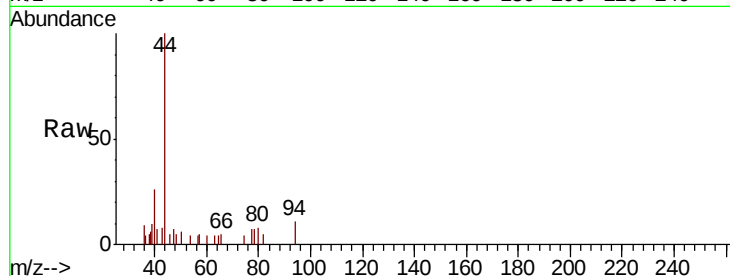
SA-SW201-20190409

Tot Ion: 94 Resp: 267

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX008890.D

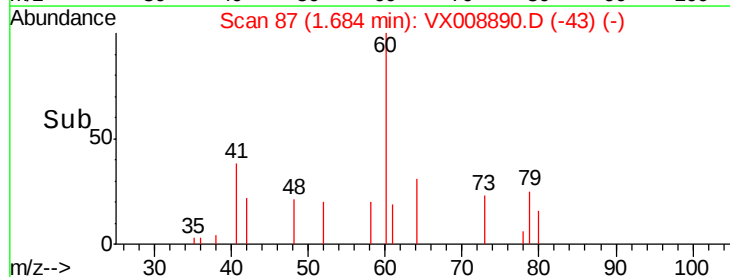
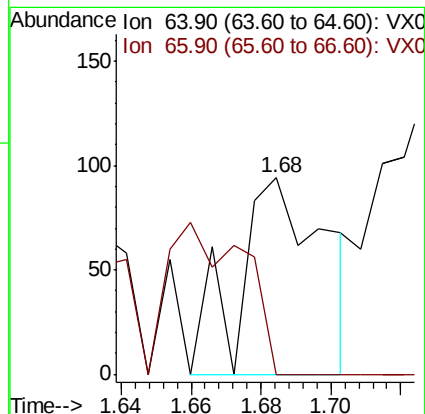
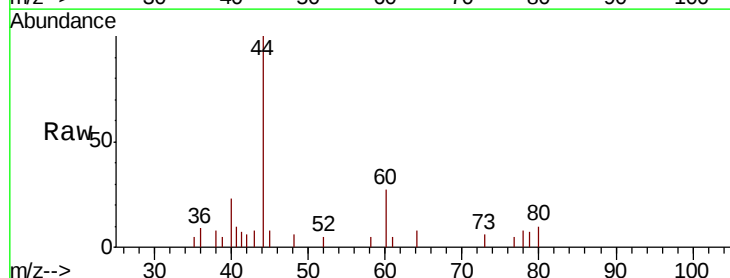
Acq: 12 Apr 2019 16:40

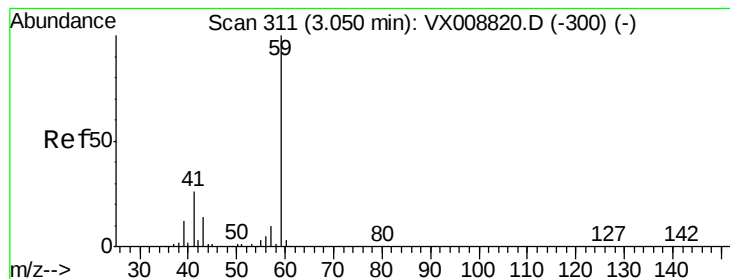
Tgt Ion: 64 Resp: 160

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



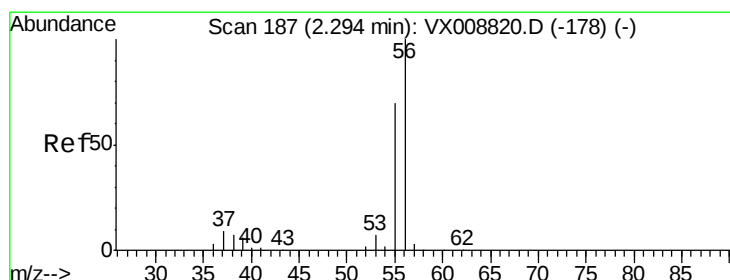
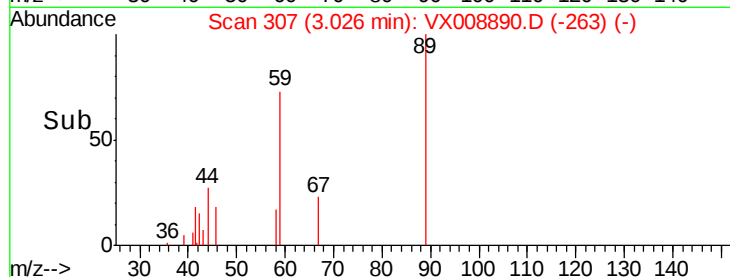
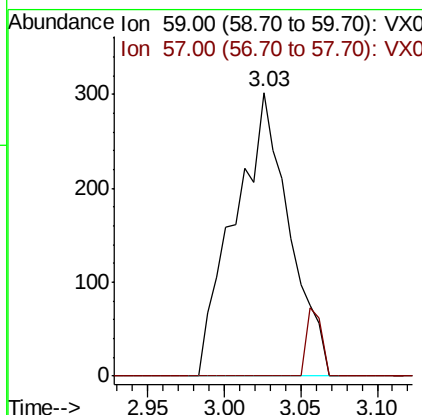
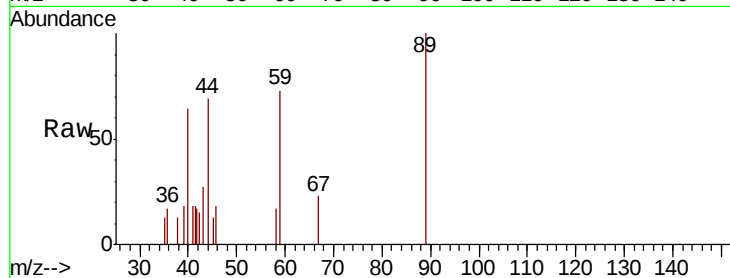


#11

Tert butyl alcohol  
 Concen: 1.140 ug/l  
 RT: 3.03 min Scan# 307  
 Delta R.T. -0.03 min  
 Lab File: VX008890.D  
 Acq: 12 Apr 2019 16:40

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-SW201-20190409

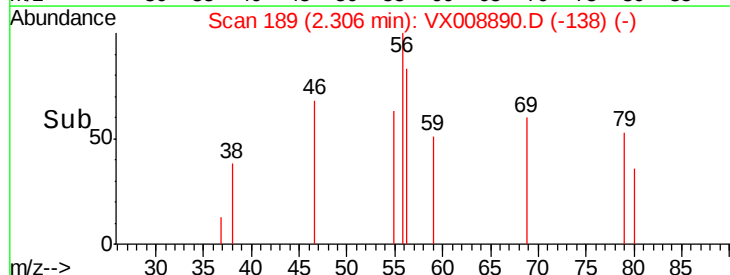
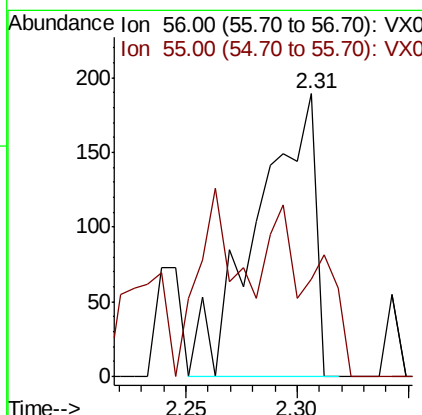
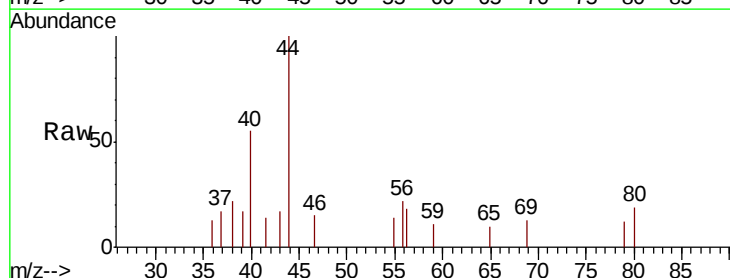
Tot Ion: 59 Resp: 750  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#

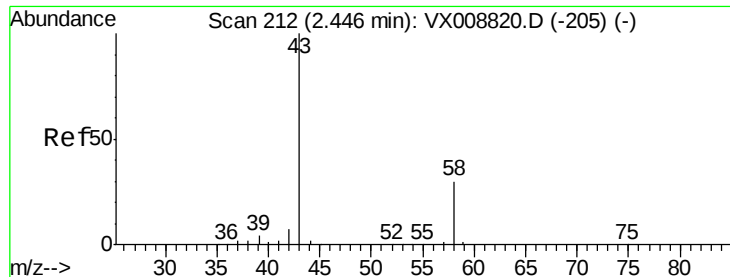


#13

Acrolein  
 Concen: 1.036 ug/l  
 RT: 2.31 min Scan# 189  
 Delta R.T. 0.01 min  
 Lab File: VX008890.D  
 Acq: 12 Apr 2019 16:40

Tgt Ion: 56 Resp: 338  
 Ion Ratio Lower Upper  
 56 100  
 55 50.6 58.0 87.0#





#16

Acetone

Concen: 2.417 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

Instrument :

MSVOA\_X

ClientSampleId :

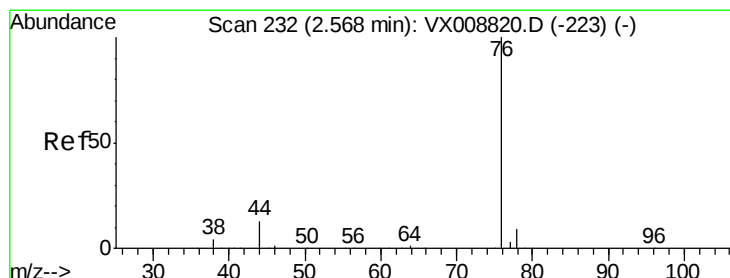
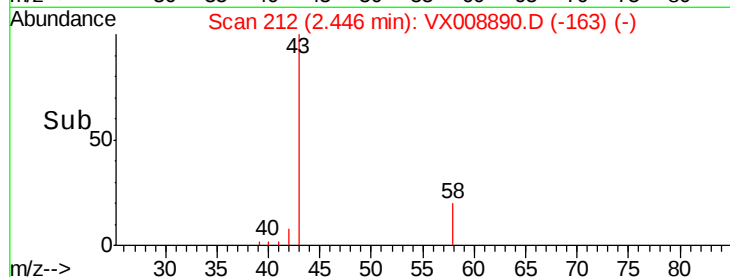
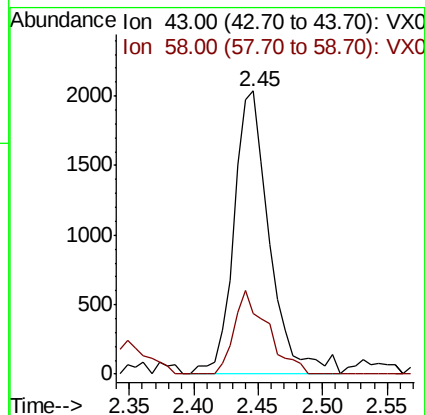
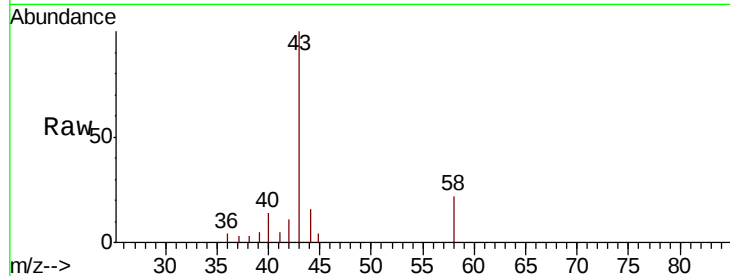
SA-SW201-20190409

Tot Ion: 43 Resp: 3912

Ion Ratio Lower Upper

43 100

58 21.6 24.8 37.2#



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008890.D

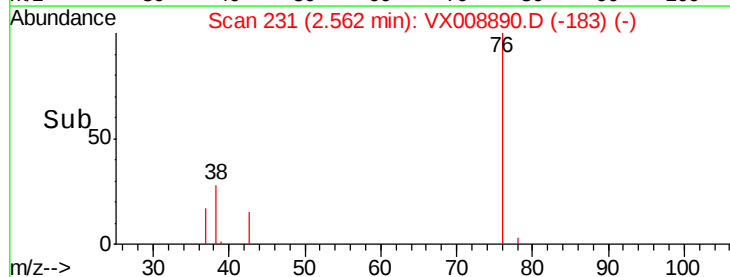
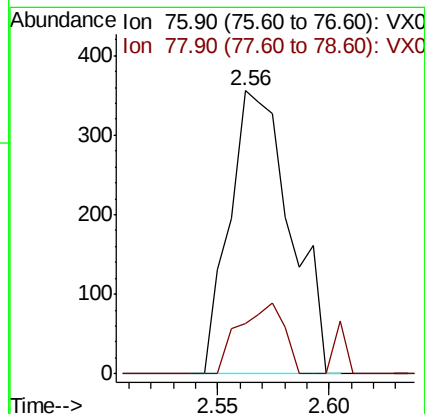
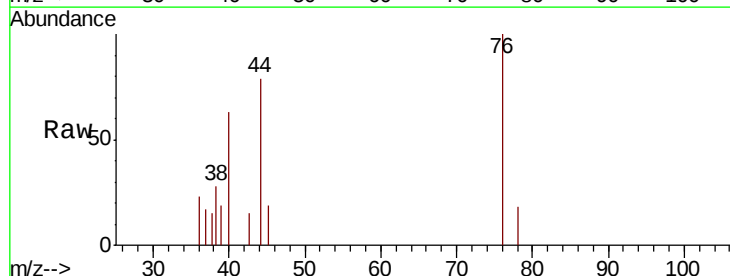
Acq: 12 Apr 2019 16:40

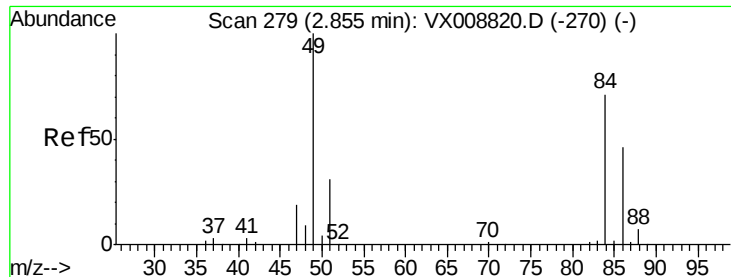
Tgt Ion: 76 Resp: 674

Ion Ratio Lower Upper

76 100

78 17.7 7.1 10.7#

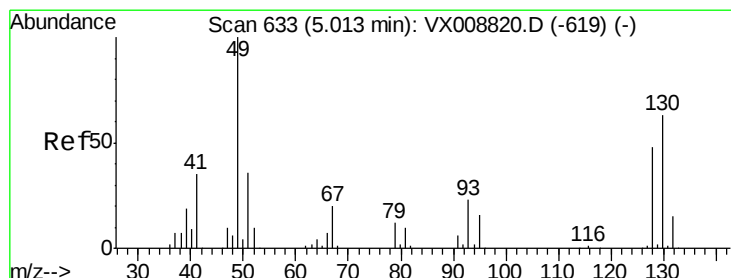
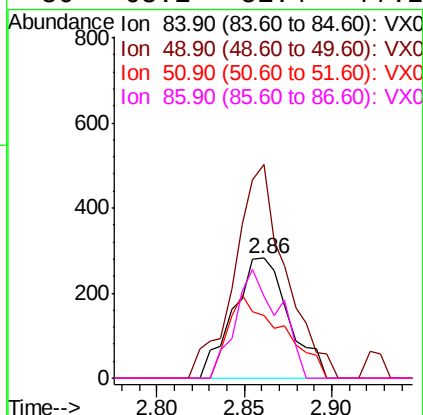
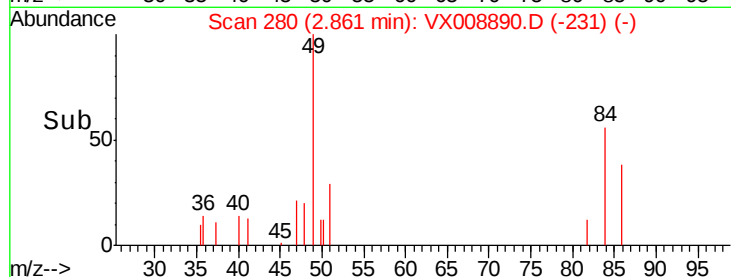
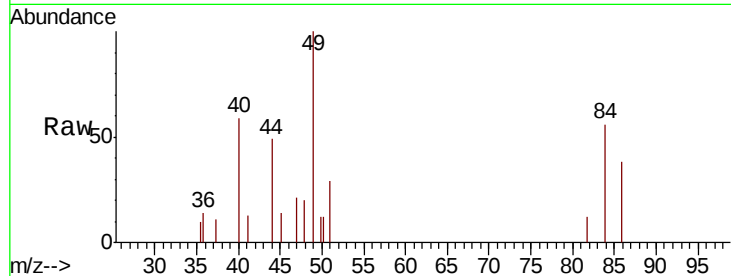




#20  
Methvlene Chloride  
Concen: 0.231 ug/l  
RT: 2.86 min Scan# 280  
Delta R.T. -0.00 min  
Lab File: VX008890.D  
Acq: 12 Apr 2019 16:40

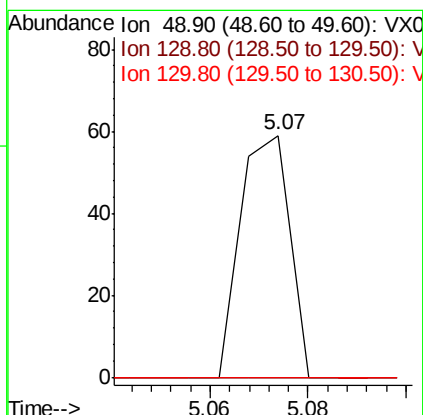
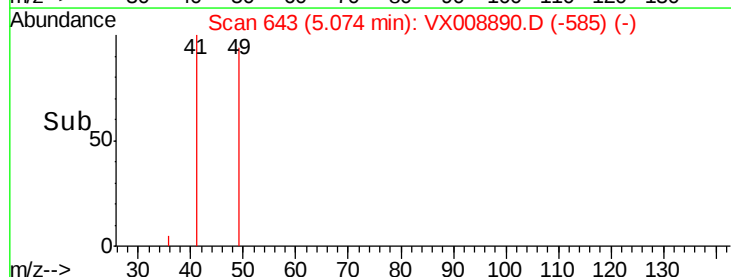
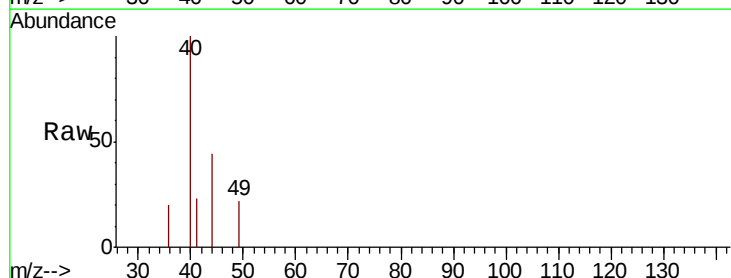
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-SW201-20190409

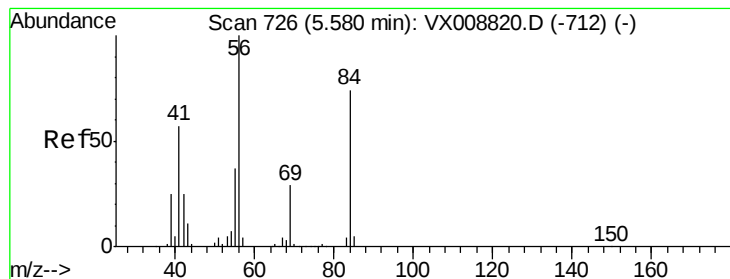
Tot Ion: 84 Resp: 625  
Ion Ratio Lower Upper  
84 100  
49 178.0 109.7 164.5#  
51 52.5 33.6 50.4#  
86 68.1 51.4 77.2



#28  
Bromochloromethane  
Concen: Below Cal  
RT: 5.07 min Scan# 643  
Delta R.T. 0.05 min  
Lab File: VX008890.D  
Acq: 12 Apr 2019 16:40

Tgt Ion: 49 Resp: 41  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 3.6  
130 0.0 49.3 73.9#





#31

Cyclohexane

Concen: 0.911 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

Instrument :

MSVOA\_X

ClientSampleId :

SA-SW201-20190409

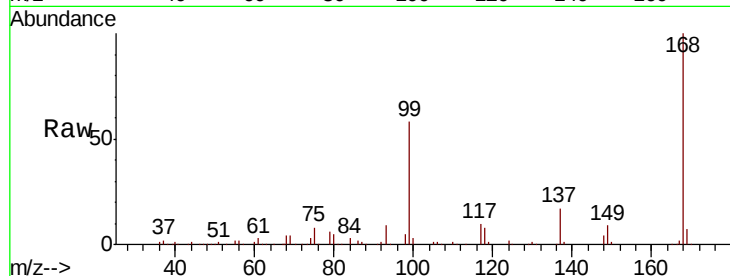
Tot Ion: 56 Resp: 4425

Ion Ratio Lower Upper

56 100

69 166.5 22.6 33.8#

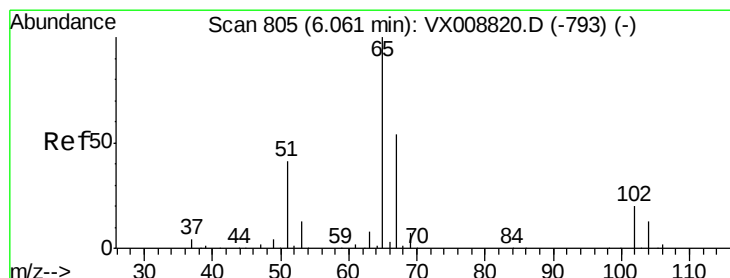
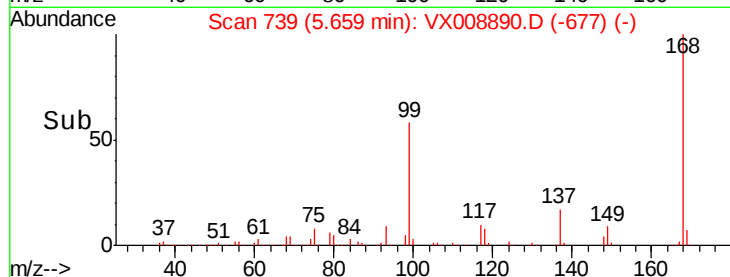
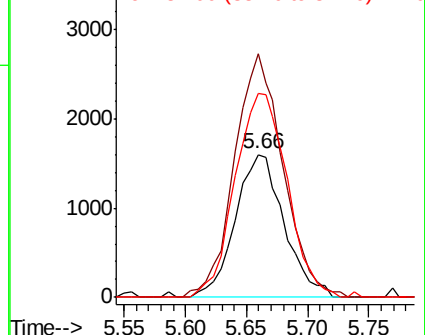
84 142.5 59.3 88.9#



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: 45.880 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008890.D

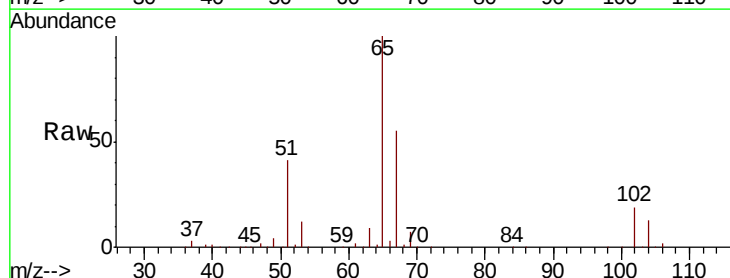
Acq: 12 Apr 2019 16:40

Tgt Ion: 65 Resp: 128924

Ion Ratio Lower Upper

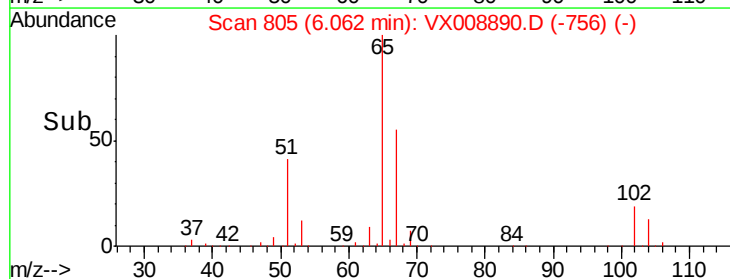
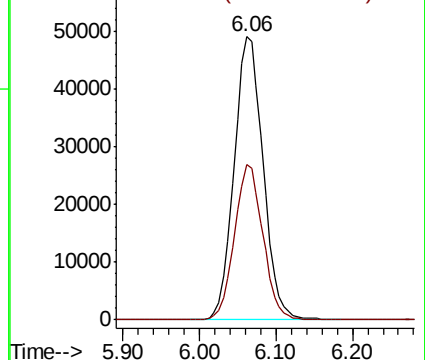
65 100

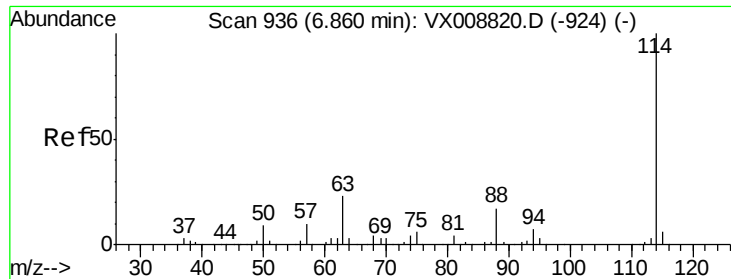
67 53.9 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

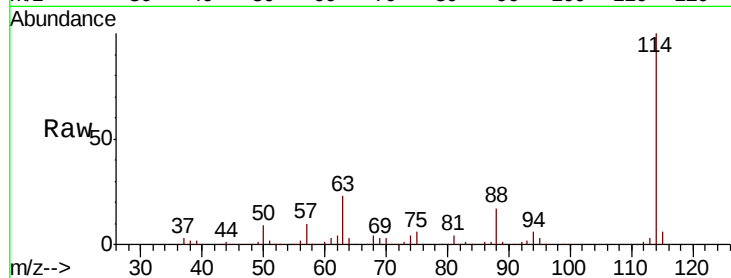




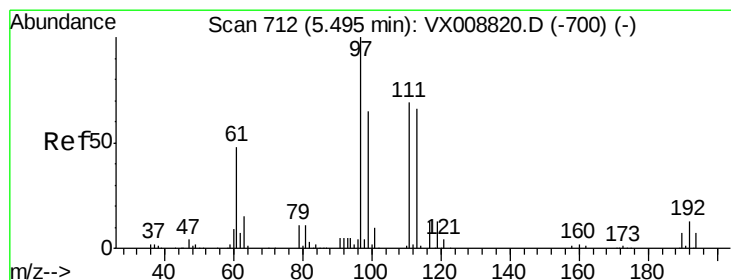
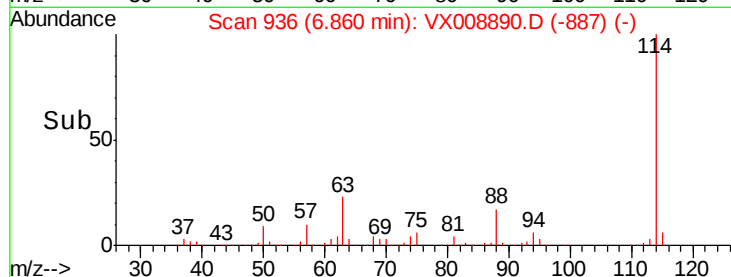
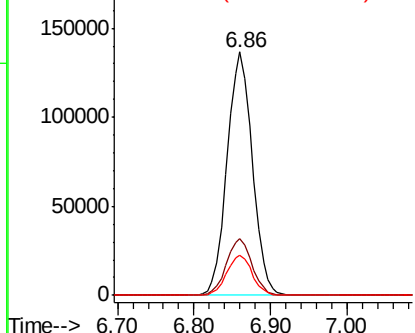
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX008890.D  
 Acq: 12 Apr 2019 16:40

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-SW201-20190409

Tot Ion:114 Resp: 312932  
 Ion Ratio Lower Upper  
 114 100  
 63 23.1 0.0 47.2  
 88 16.6 0.0 34.0

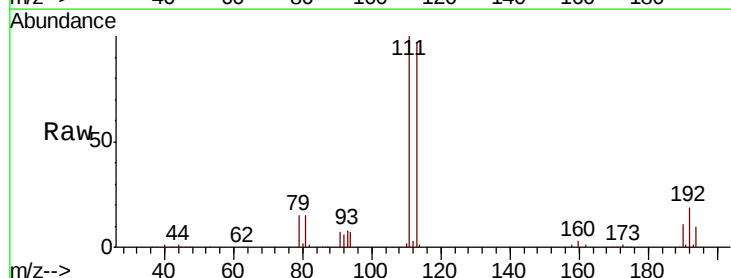


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

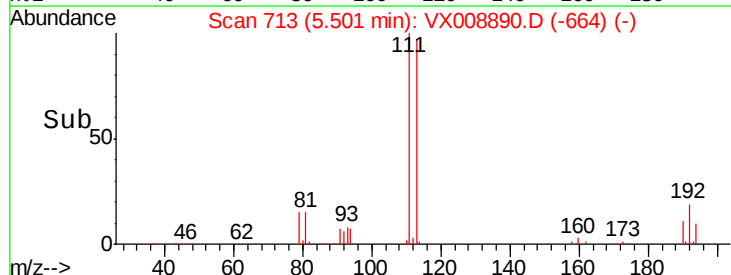
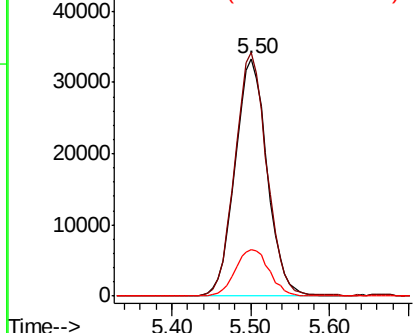


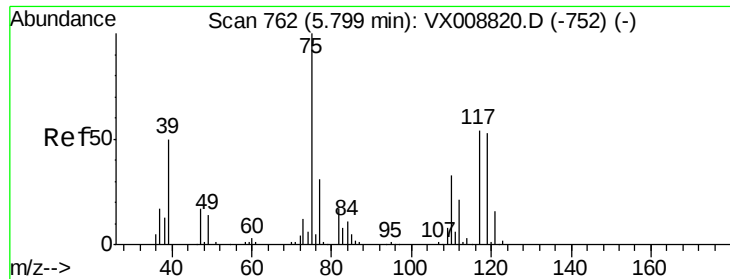
#35  
 Dibromofluoromethane  
 Concen: 47.179 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX008890.D  
 Acq: 12 Apr 2019 16:40

Tgt Ion:113 Resp: 94395  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 83.4 125.2  
 192 20.7 16.1 24.1



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

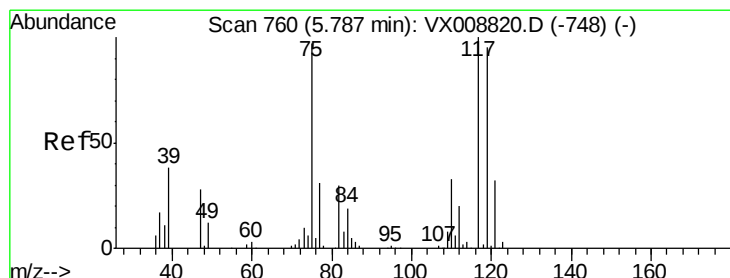
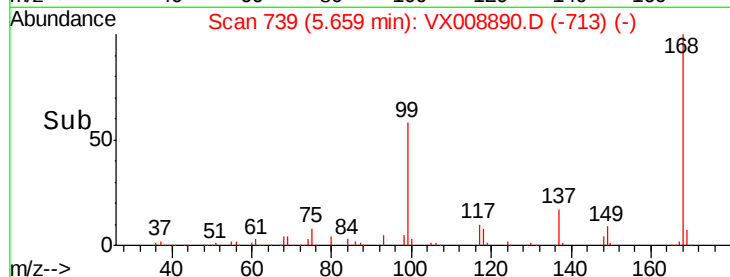
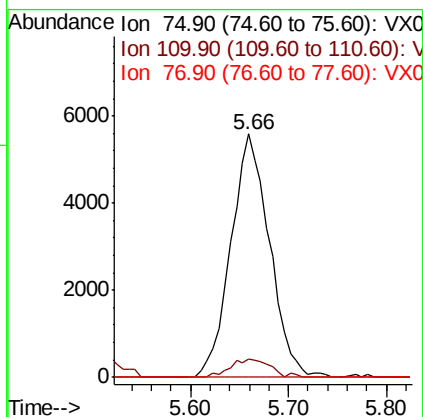
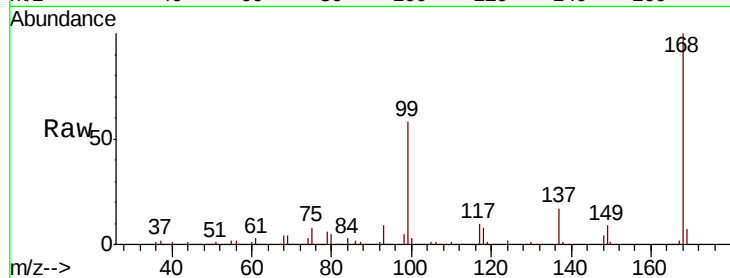




#36  
 1,1-Dichloropropene  
 Concen: 4.468 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX008890.D  
 Acq: 12 Apr 2019 16:40

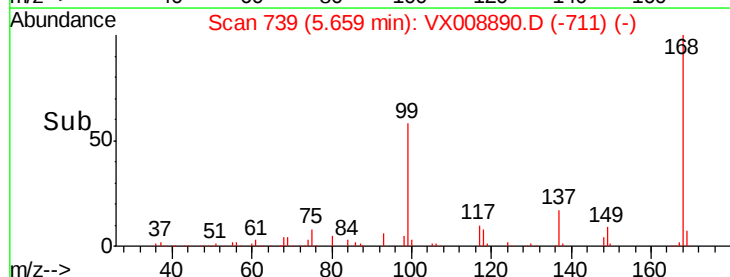
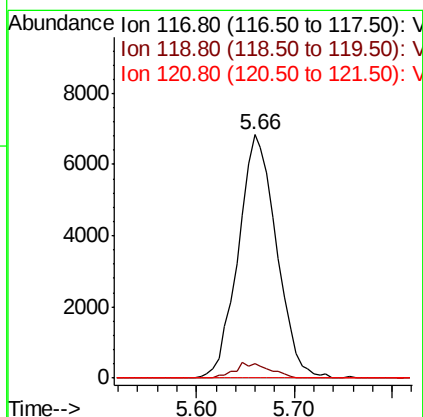
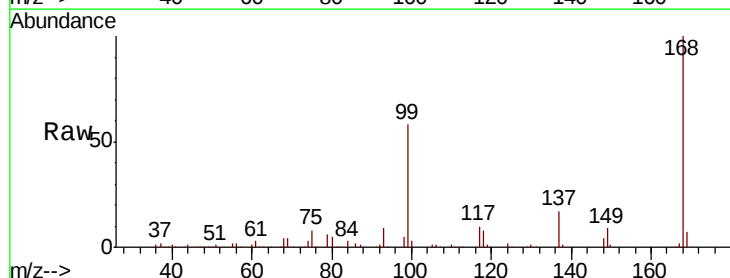
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SA-SW201-20190409

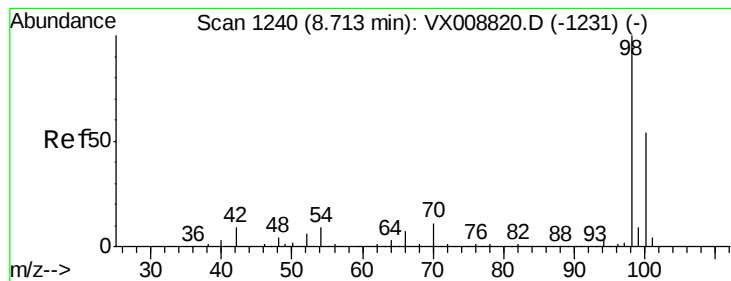
| Tot Ion   | 75  | Resp  | 15285 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 7.5 | 16.4  | 49.2# |
| 77        | 0.0 | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.539 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.13 min  
 Lab File: VX008890.D  
 Acq: 12 Apr 2019 16:40

| Tgt Ion                                              | 117 | Resp  | 18513  |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 117                                                  | 100 |       |        |
| 119                                                  | 5.8 | 75.0  | 112.6# |
| 121                                                  | 0.0 | 24.3  | 36.5#  |





#50

Toluene-d8

Concen: 48.952 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

Instrument :

MSVOA\_X

ClientSampleId :

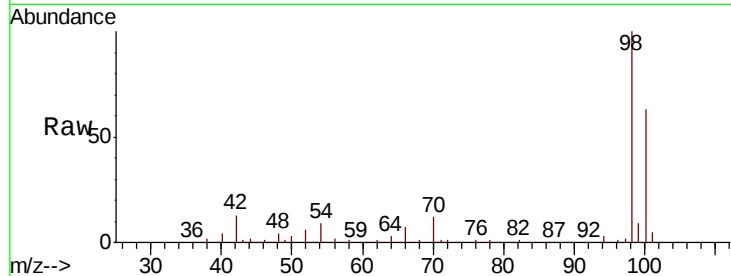
SA-SW201-20190409

Tot Ion: 98 Resp: 389980

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

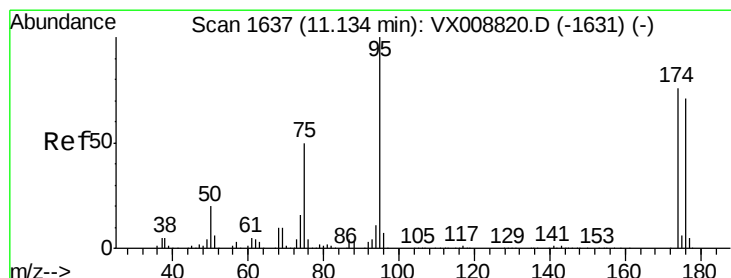
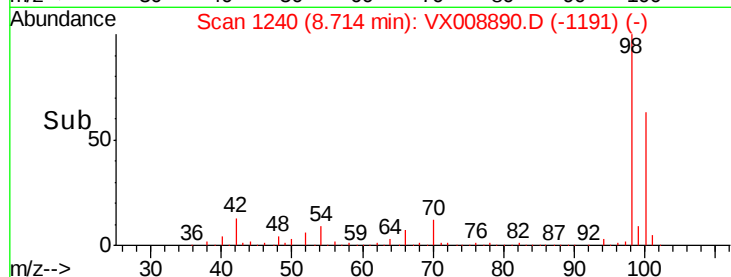
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 44.858 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

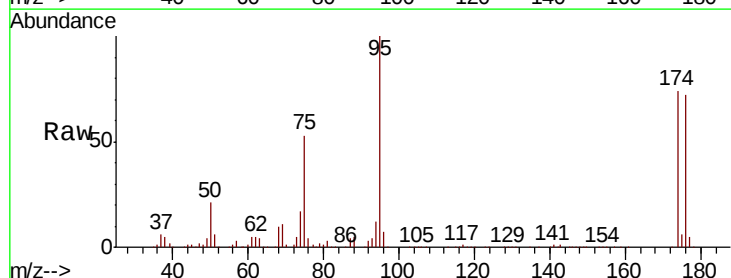
Tgt Ion: 95 Resp: 126725

Ion Ratio Lower Upper

95 100

174 78.6 0.0 151.8

176 75.9 0.0 145.8



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

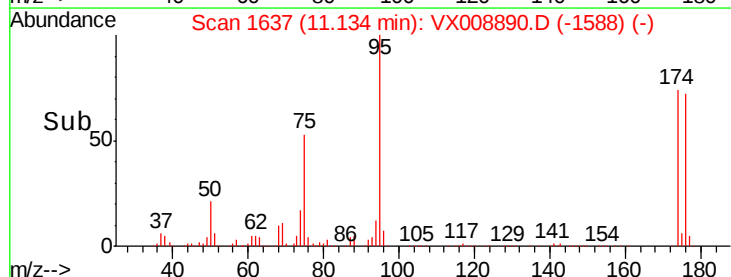
11.13

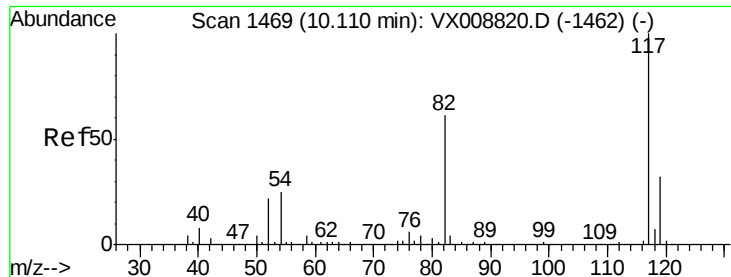
100000

50000

0

Time--> 11.10 11.20

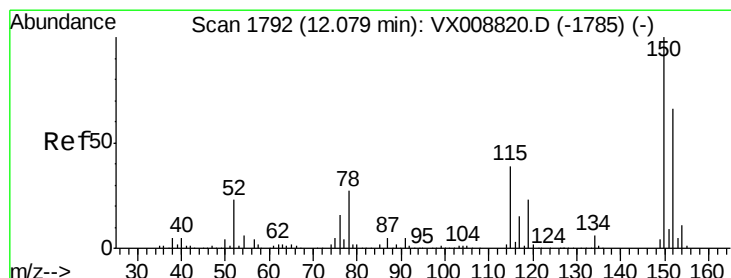
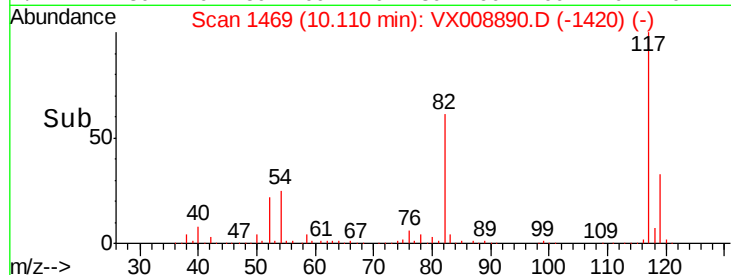
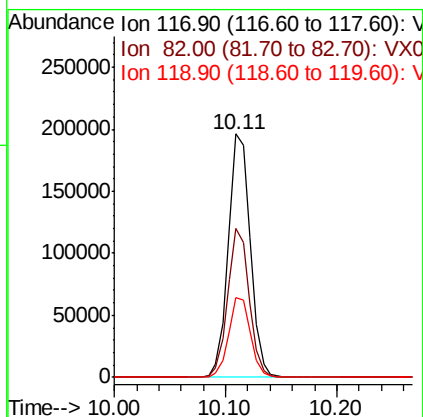
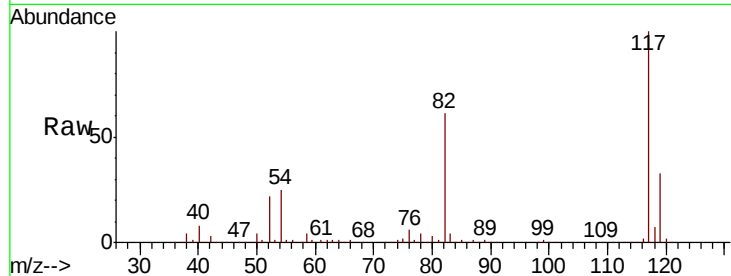




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX008890.D  
Acq: 12 Apr 2019 16:40

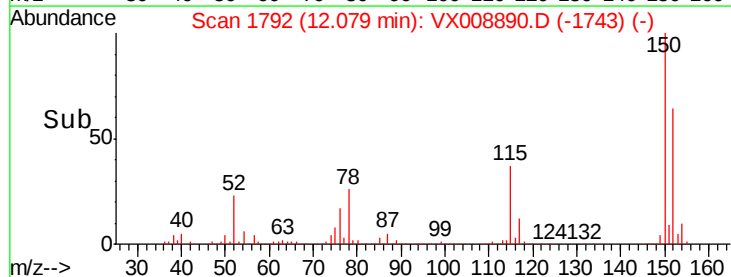
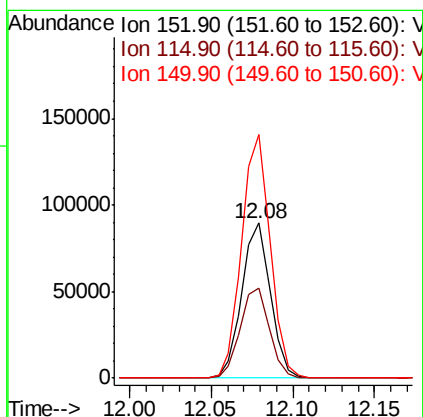
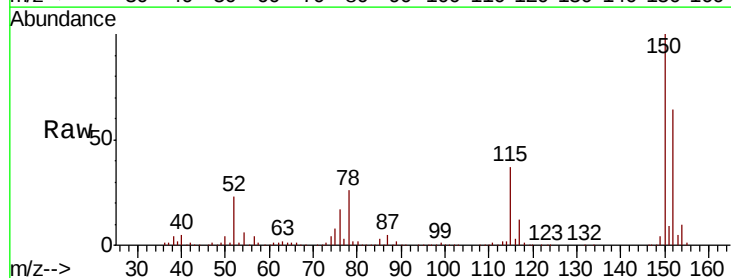
Instrument :  
MSVOA\_X  
ClientSampleId :  
SA-SW201-20190409

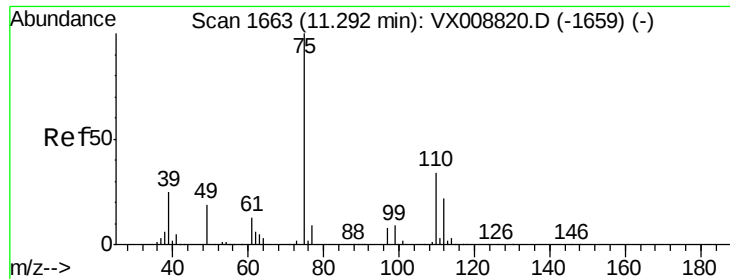
Tot Ion:117 Resp: 268581  
Ion Ratio Lower Upper  
117 100  
82 61.0 49.6 74.4  
119 32.6 25.0 37.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX008890.D  
Acq: 12 Apr 2019 16:40

Tgt Ion:152 Resp: 110265  
Ion Ratio Lower Upper  
152 100  
115 59.7 43.5 130.5  
150 157.2 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 21.370 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

Instrument :

MSVOA\_X

ClientSampleId :

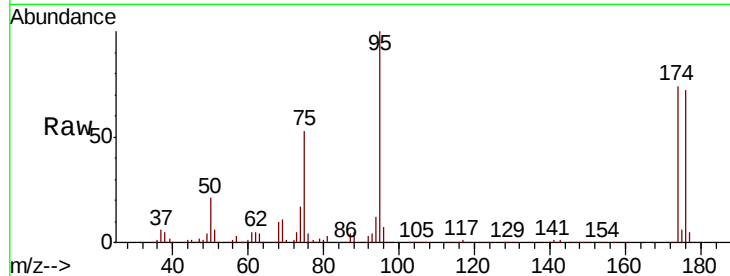
SA-SW201-20190409

Tot Ion: 75 Resp: 64733

Ion Ratio Lower Upper

75 100

77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

50000

40000

30000

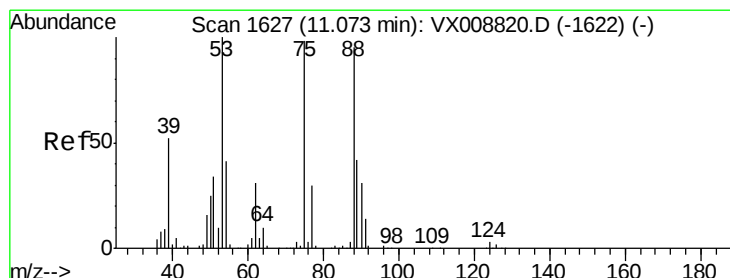
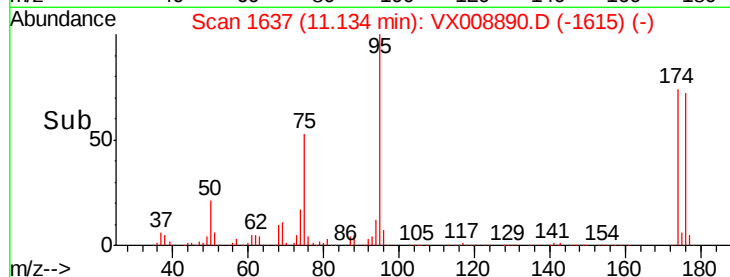
20000

10000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 58.909 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008890.D

Acq: 12 Apr 2019 16:40

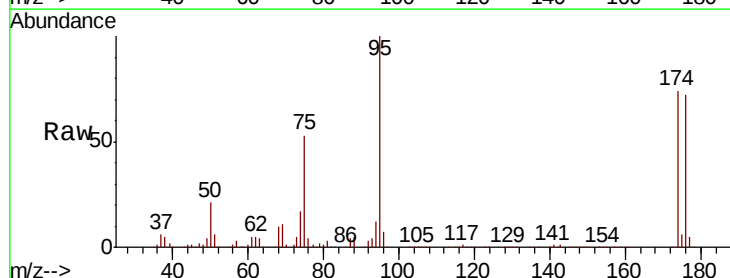
Tgt Ion: 75 Resp: 64733

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#



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

60000

40000

20000

0

Time-->

11.10 11.20

