

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX112119\  
 Data File : VX013494.D  
 Acq On : 21 Nov 2019 11:44  
 Operator : JC/SP  
 Sample : K5957-14  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 22 01:06:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 715216   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 1151859  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1025949  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 448180   | 50.00 | ug/l  | 0.00     |

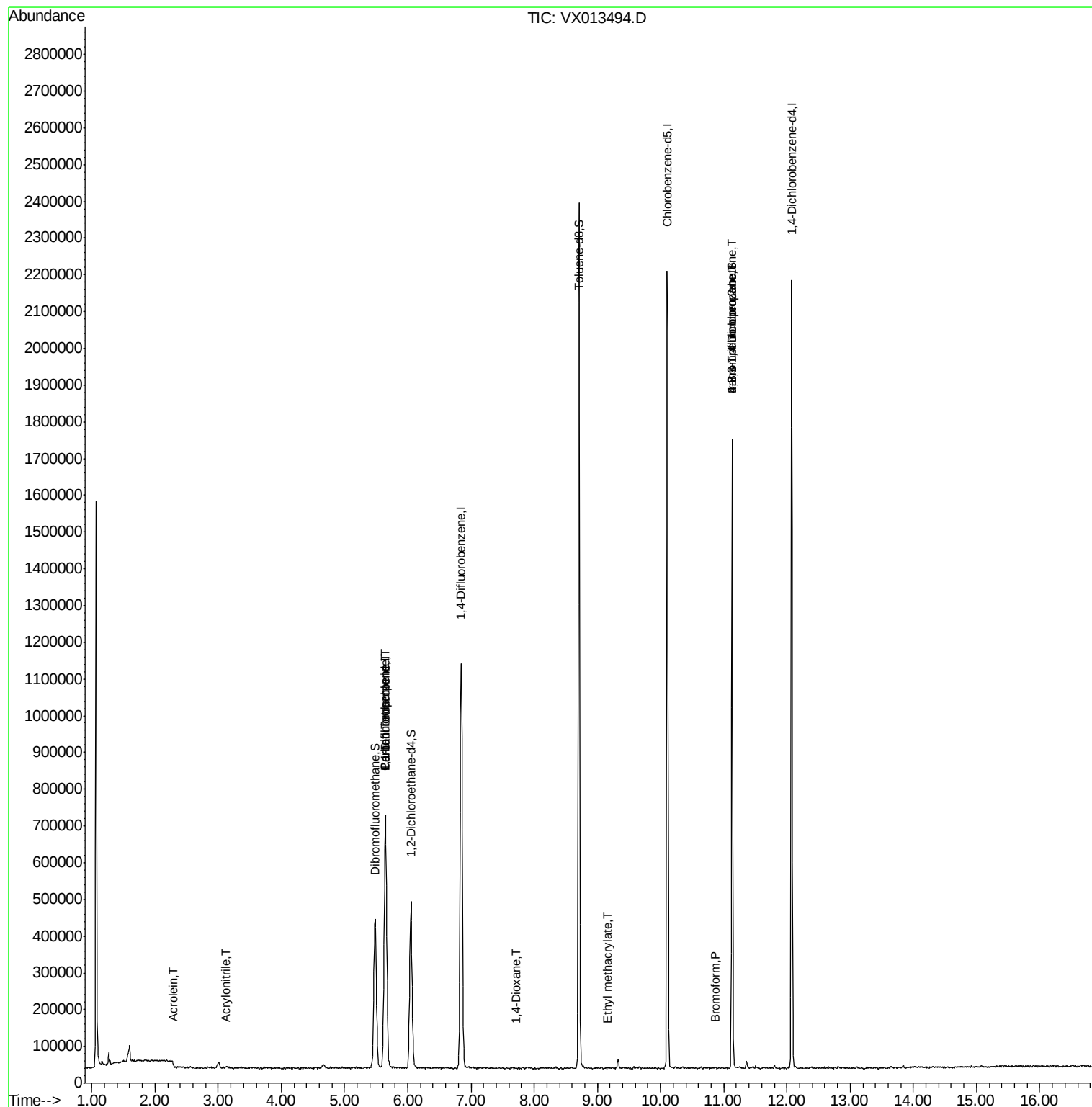
| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 419154   | 49.47 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.94%  |      |
| 35) Dibromofluoromethane    | 5.48   | 113 | 353210   | 48.89 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 97.78%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 1373536  | 50.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.86% |      |
| 62) 4-Bromofluorobenzene    | 11.13  | 95  | 449621   | 45.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.48%  |      |

| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.69  | 64   | 694      | Below Cal | #      | 50     |
| 13) Acrolein                   | 2.30  | 56   | 261      | 0.216     | ug/l # | 82     |
| 15) Acrylonitrile              | 3.13  | 53   | 922      | 0.221     | ug/l # | 24     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 47441    | 4.801     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 61147    | 6.328     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.72  | 88   | 94       | 0.432     | ug/l # | 1      |
| 56) Ethyl methacrylate         | 9.17  | 69   | 109      | 1.571     | ug/l # | 1      |
| 71) Bromoform                  | 10.85 | 173  | 1149     | 3.355     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 222725   | 24.467    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 222725   | 62.977    | ug/l # | 9      |

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013494.D

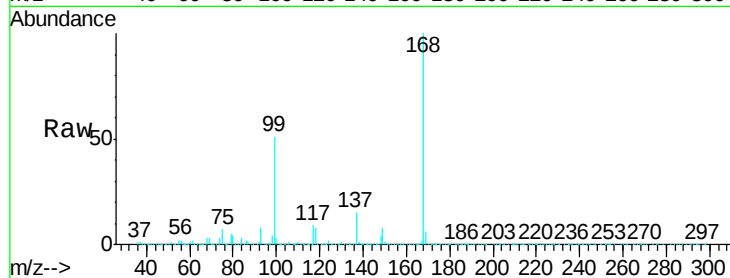
Acq: 21 Nov 2019 11:44

Tgt Ion: 168 Resp: 715216

Ion Ratio Lower Upper

168 100

99 50.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

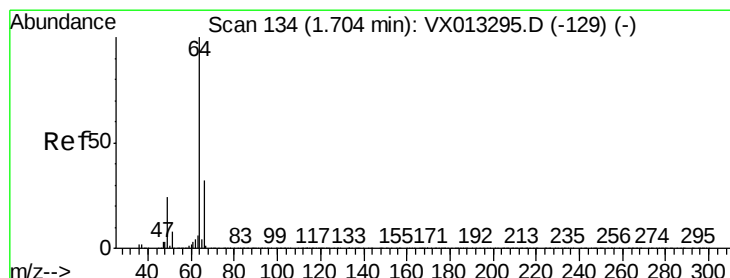
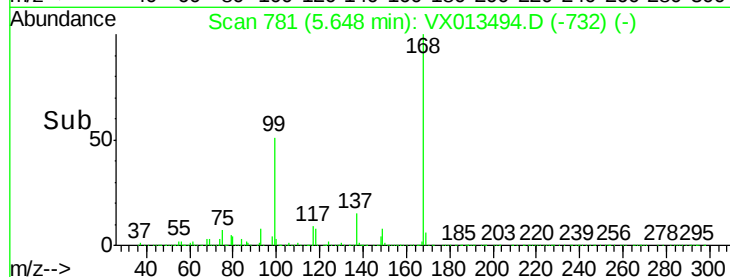
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX013494.D

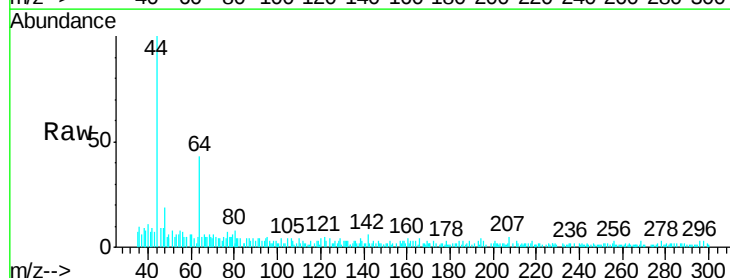
Acq: 21 Nov 2019 11:44

Tgt Ion: 64 Resp: 694

Ion Ratio Lower Upper

64 100

66 4.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

3000

2500

2000

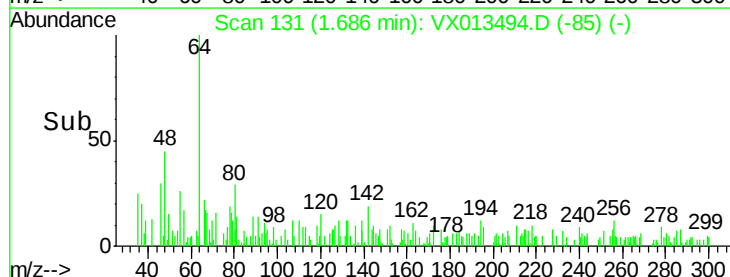
1500

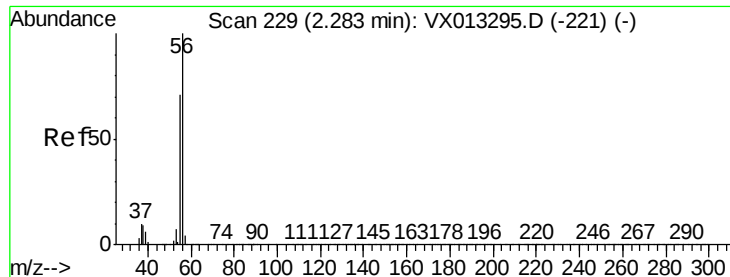
1000

500

0

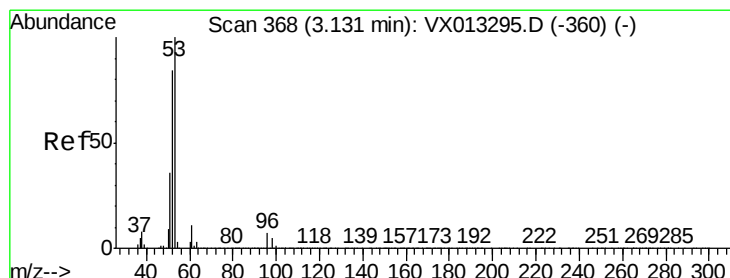
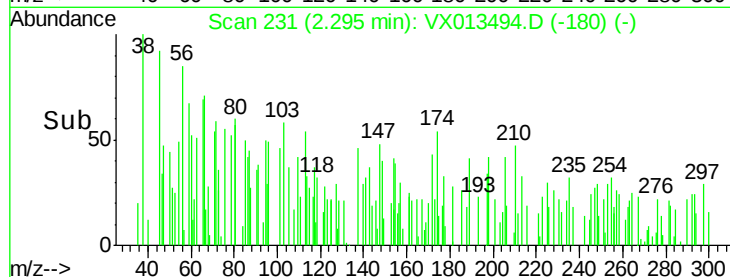
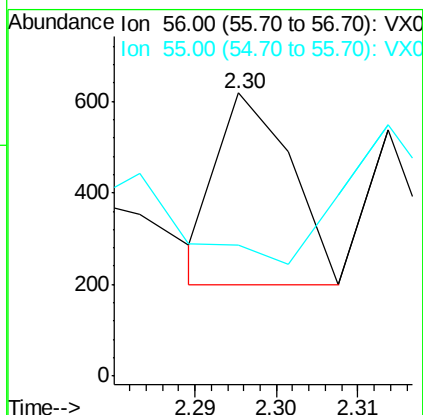
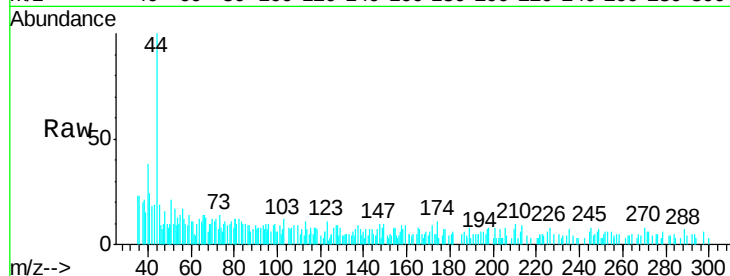
Time-->





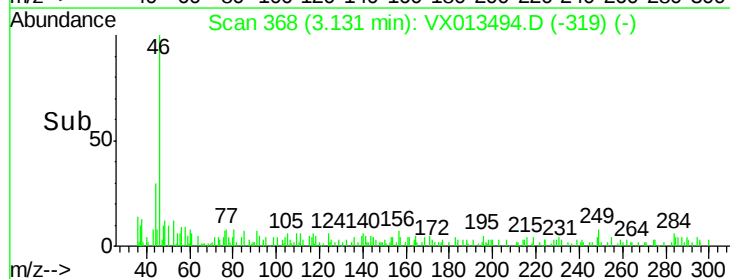
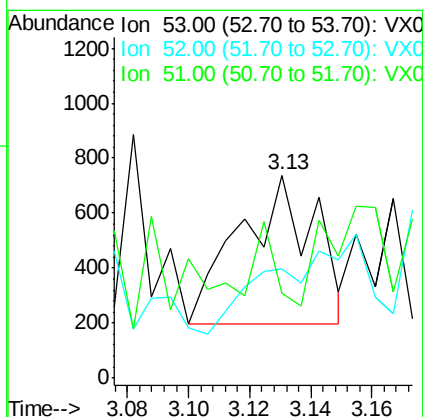
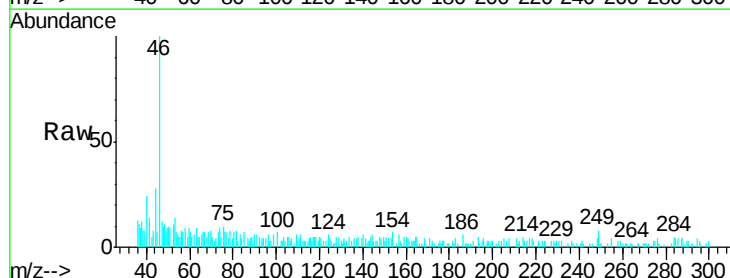
#13  
Acrolein  
Concen: 0.216 ug/l  
RT: 2.30 min Scan# 231  
Delta R.T. 0.01 min  
Lab File: VX013494.D  
Acq: 21 Nov 2019 11:44

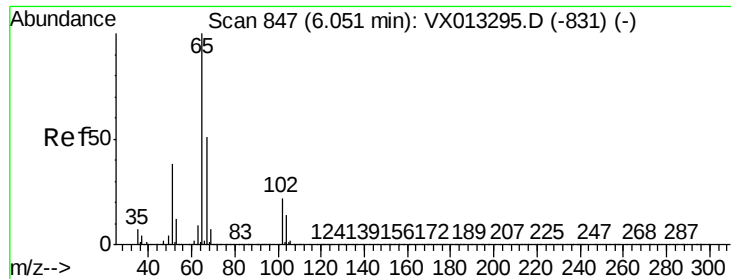
Tgt Ion: 56 Resp: 261  
Ion Ratio Lower Upper  
56 100  
55 87.0 57.4 86.0#



#15  
Acrylonitrile  
Concen: 0.221 ug/l  
RT: 3.13 min Scan# 368  
Delta R.T. -0.00 min  
Lab File: VX013494.D  
Acq: 21 Nov 2019 11:44

Tgt Ion: 53 Resp: 922  
Ion Ratio Lower Upper  
53 100  
52 0.0 67.4 101.0#  
51 14.1 29.4 44.2#





#33

1,2-Dichloroethane-d4

Concen: 49.468 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013494.D

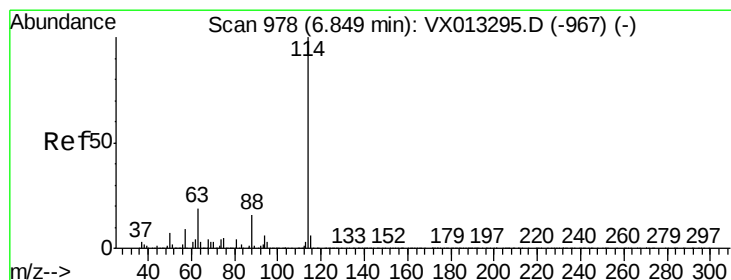
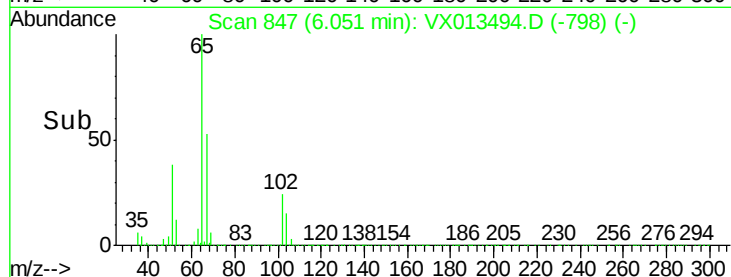
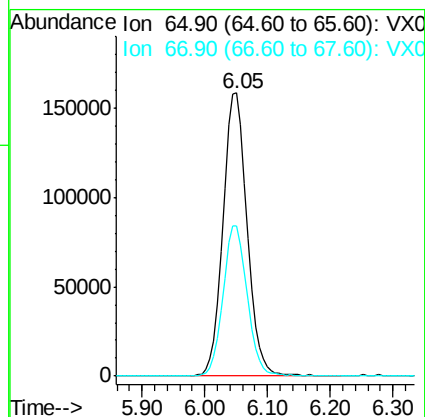
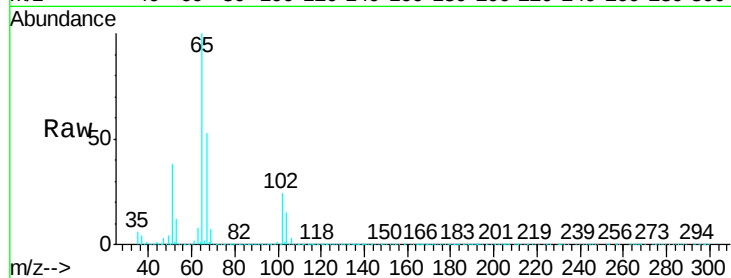
Acq: 21 Nov 2019 11:44

Tgt Ion: 65 Resp: 419154

Ion Ratio Lower Upper

65 100

67 53.2 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 977

Delta R.T. -0.01 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

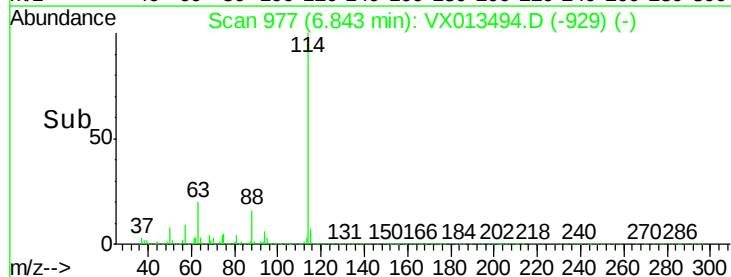
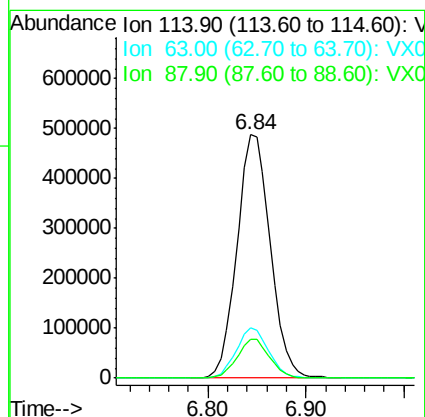
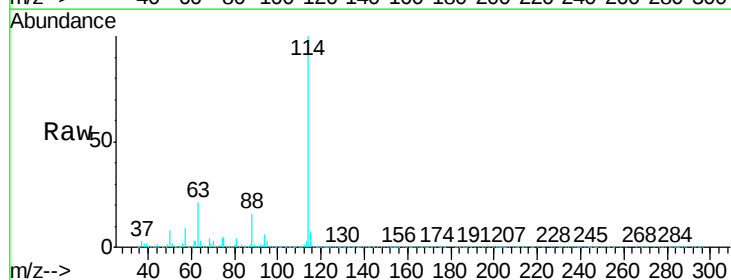
Tgt Ion: 114 Resp: 1151859

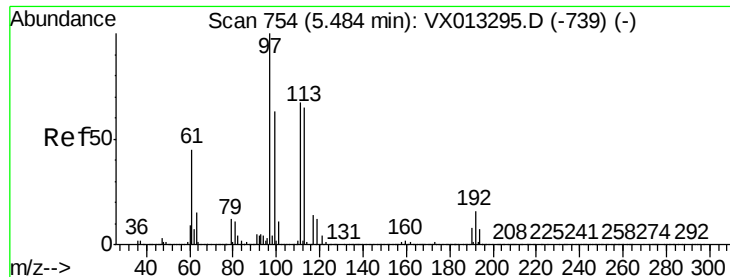
Ion Ratio Lower Upper

114 100

63 20.4 0.0 38.4

88 15.9 0.0 32.2





#35

Dibromofluoromethane

Concen: 48.890 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

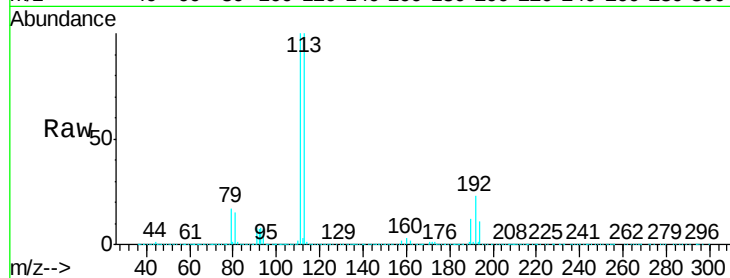
Tgt Ion: 113 Resp: 353210

Ion Ratio Lower Upper

113 100

111 101.6 81.9 122.9

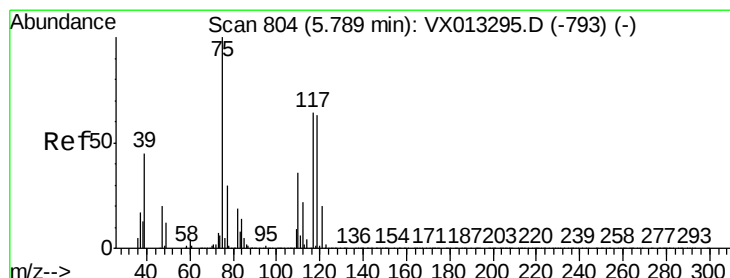
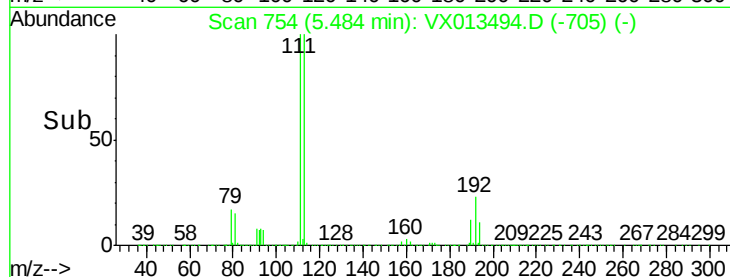
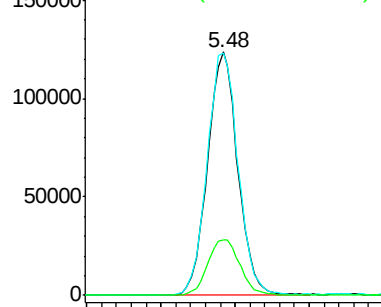
192 24.2 19.1 28.7



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: 4.801 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

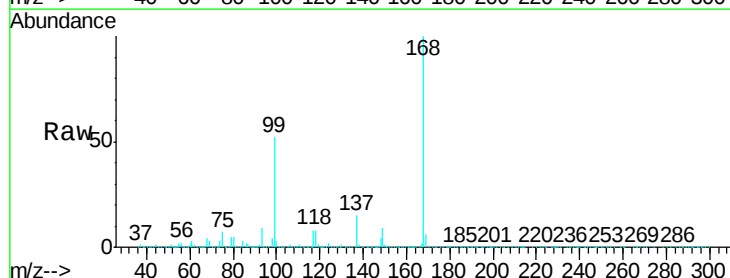
Tgt Ion: 75 Resp: 47441

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.1#

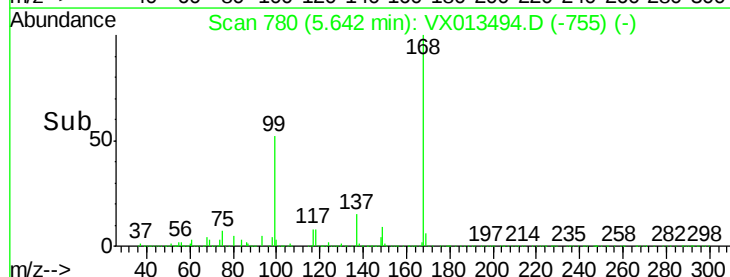
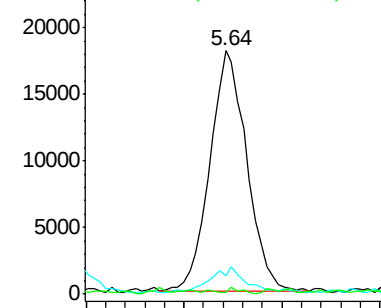
77 1.1 25.0 37.4#

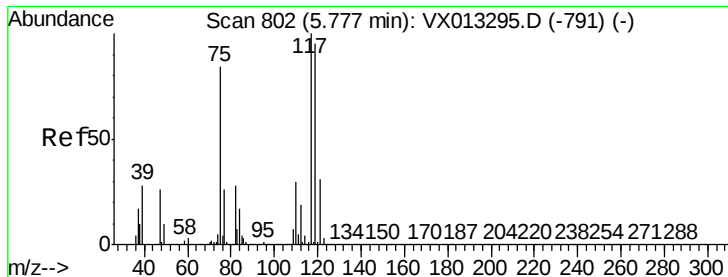


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.328 ug/l

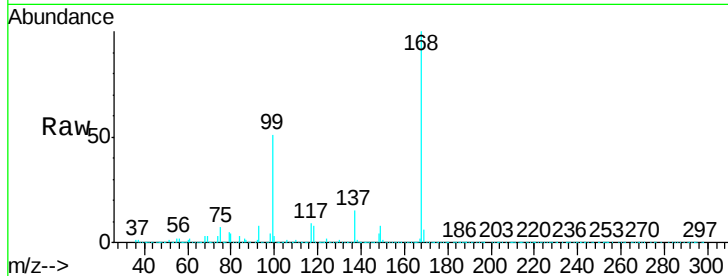
RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

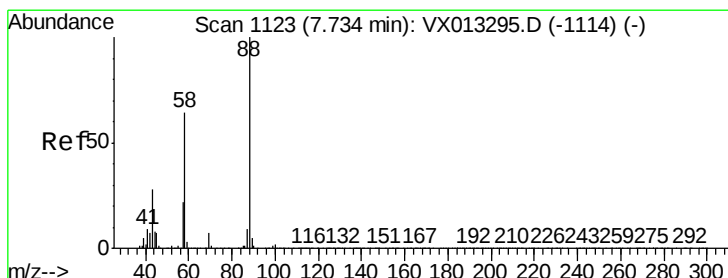
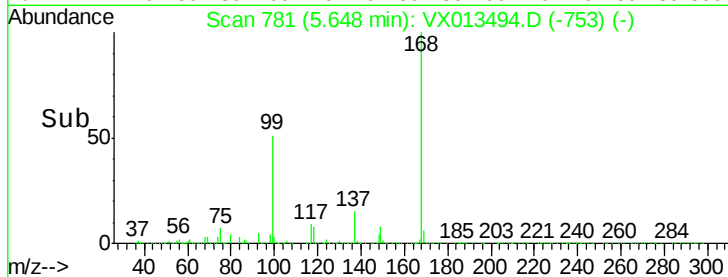
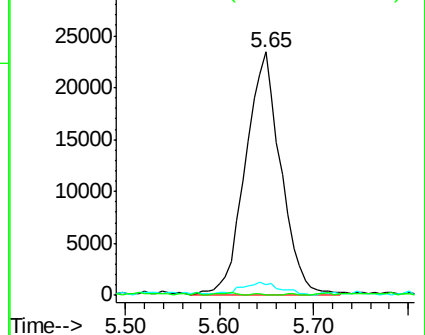
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 61147  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 3.8   | 76.1  | 114.1# |
| 121       | 0.0   | 24.6  | 37.0#  |



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: 0.432 ug/l

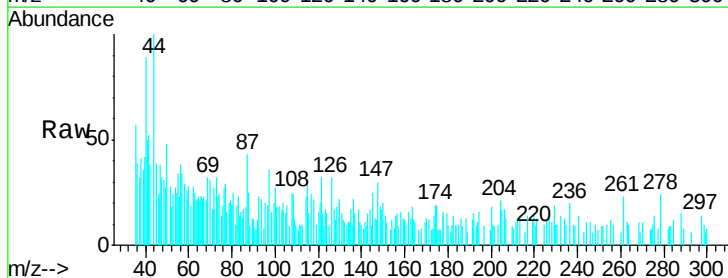
RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

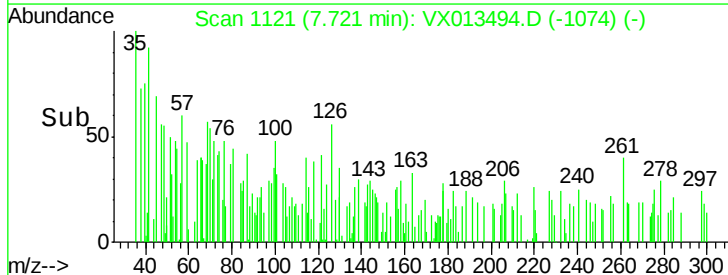
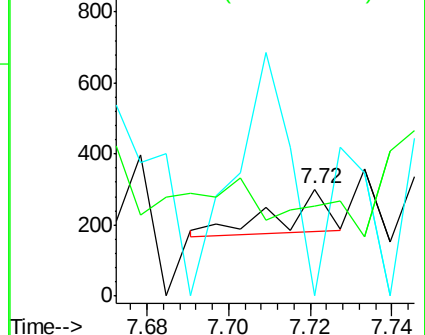
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 88    | Resp: | 94    |
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 43        | 297.9 | 26.6  | 39.8# |
| 58        | 0.0   | 55.0  | 82.6# |

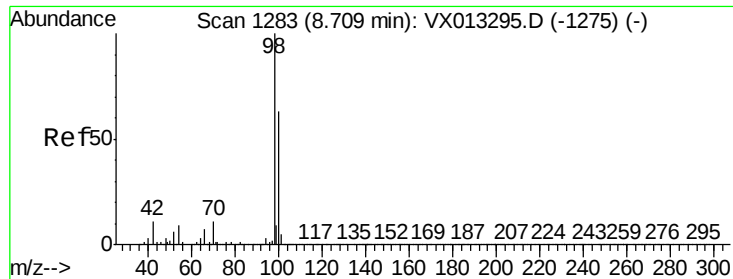


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.431 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013494.D

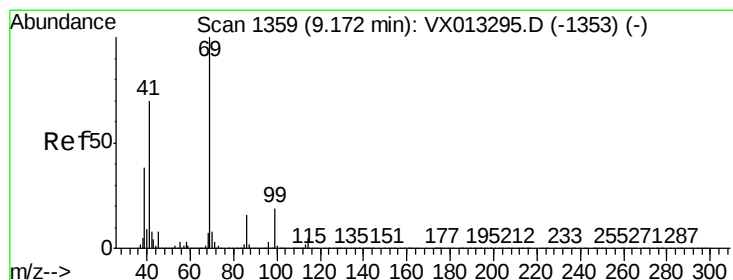
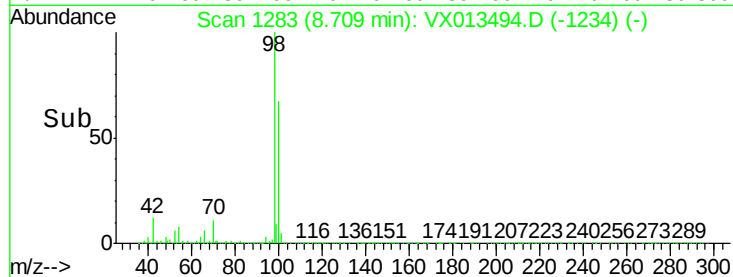
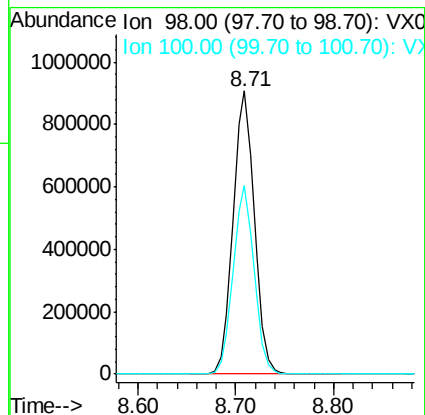
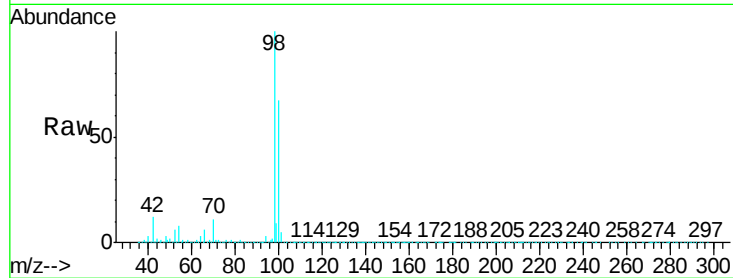
Acq: 21 Nov 2019 11:44

Tgt Ion: 98 Resp: 1373536

Ion Ratio Lower Upper

98 100

100 65.8 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.571 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

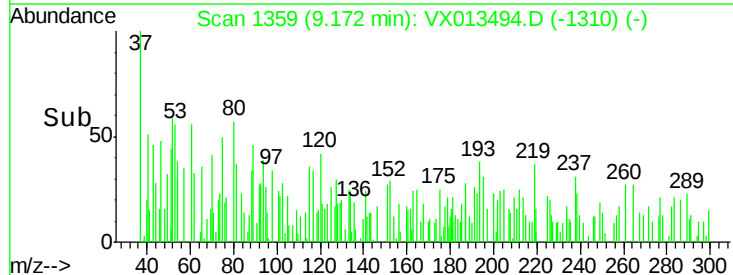
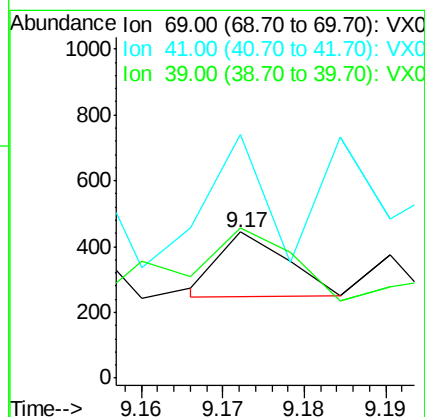
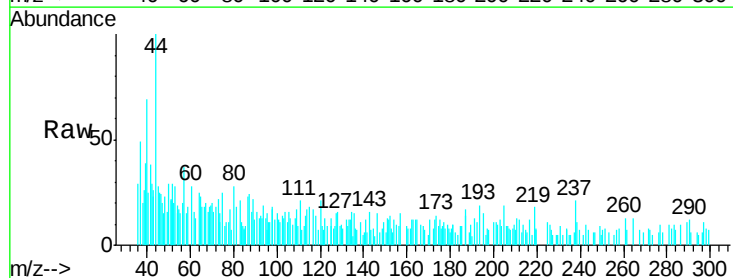
Tgt Ion: 69 Resp: 109

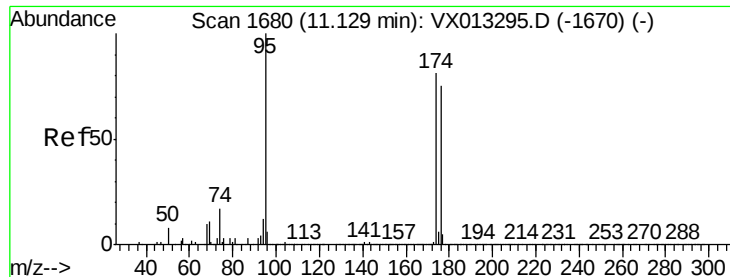
Ion Ratio Lower Upper

69 100

41 131.2 56.2 84.2#

39 781.7 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 45.741 ug/l

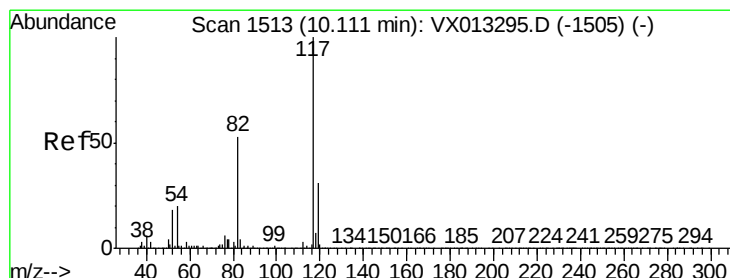
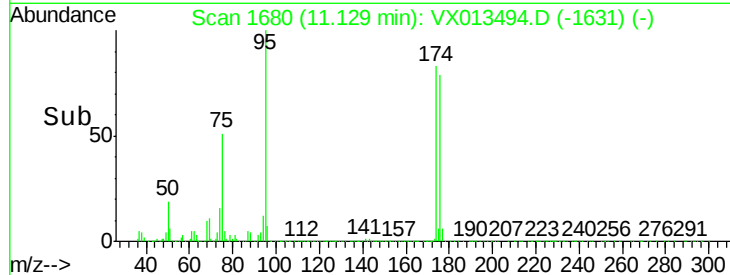
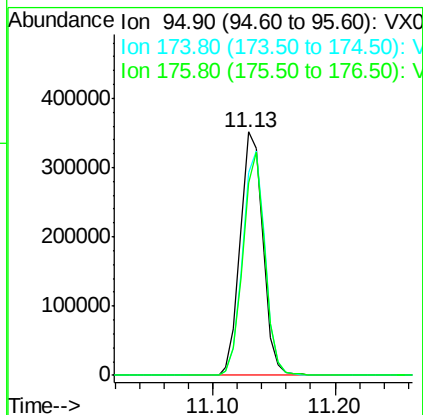
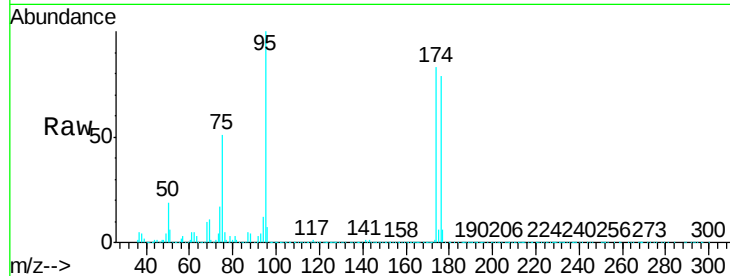
RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 449621 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 91.4  | 0.0   | 179.8  |
| 176       | 88.4  | 0.0   | 173.0  |



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

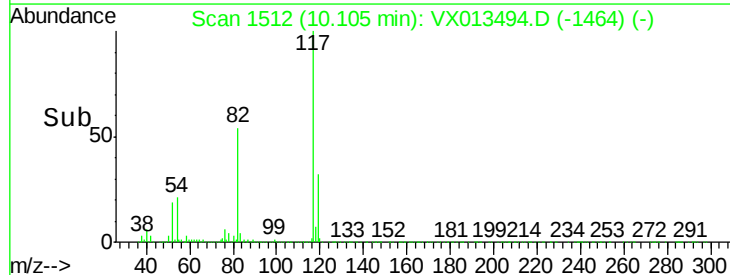
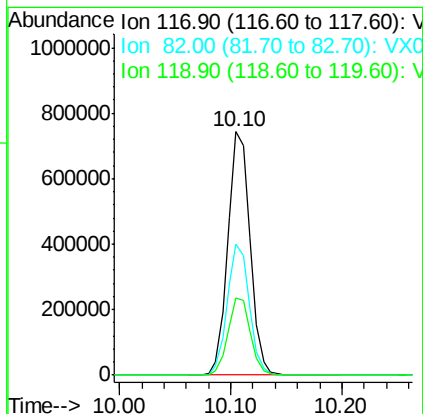
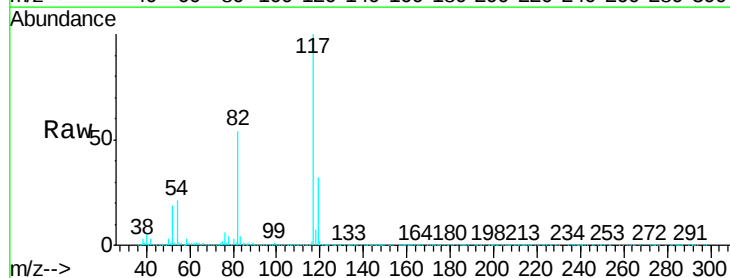
RT: 10.10 min Scan# 1512

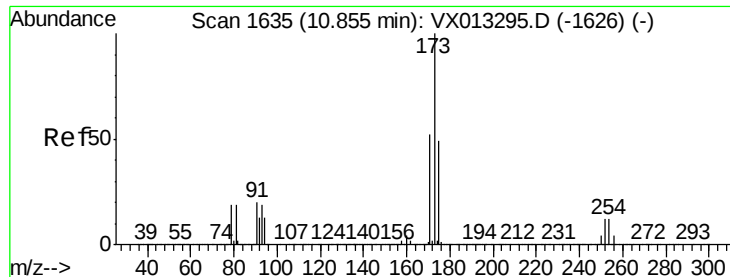
Delta R.T. -0.01 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 117   | Resp: | 1025949 |
| Ion Ratio | Lower | Upper |         |
| 117       | 100   |       |         |
| 82        | 53.8  | 42.6  | 64.0    |
| 119       | 31.6  | 24.8  | 37.2    |





#71

Bromoform

Concen: 3.355 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

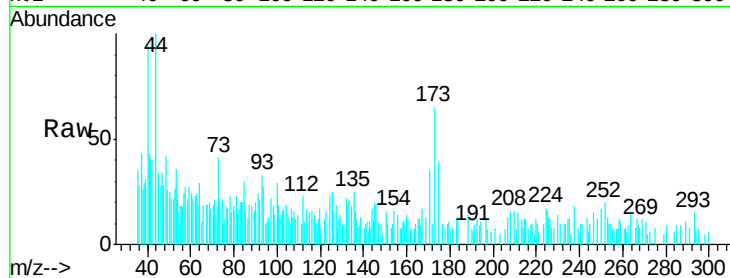
Tgt Ion:173 Resp: 1149

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

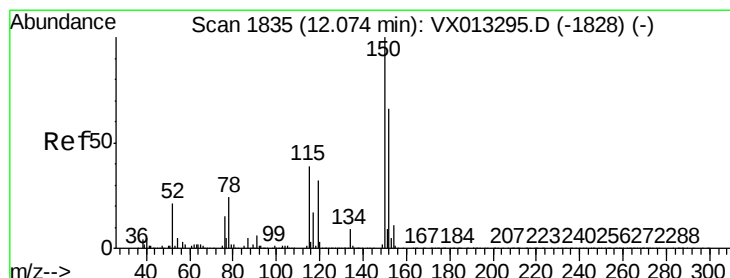
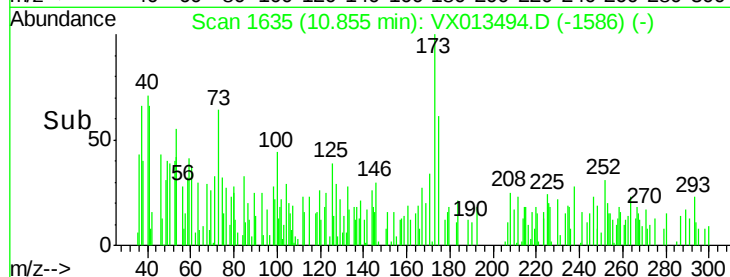
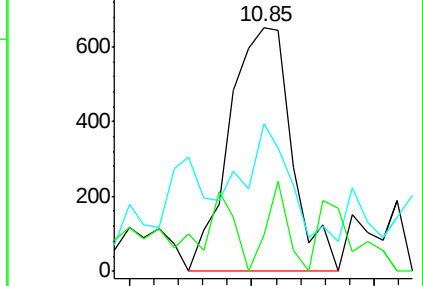
254 12.5 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX013494.D

Acq: 21 Nov 2019 11:44

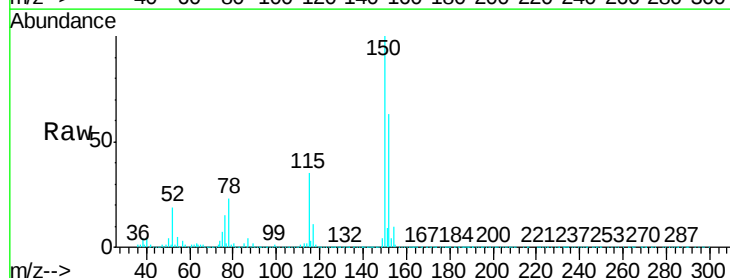
Tgt Ion:152 Resp: 448180

Ion Ratio Lower Upper

152 100

115 55.9 39.5 118.3

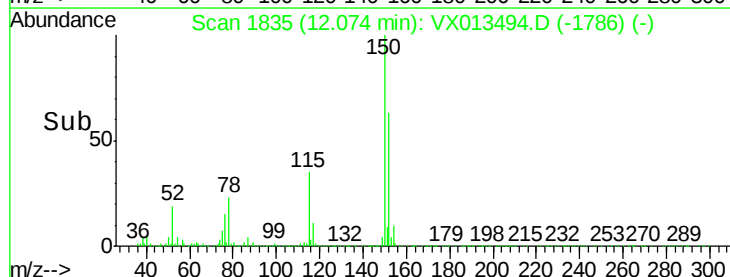
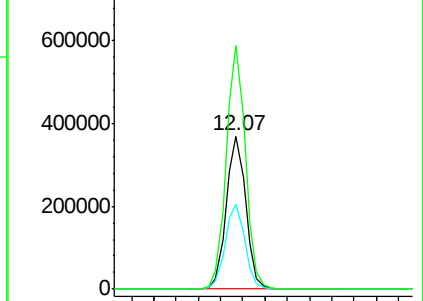
150 156.4 0.0 344.4

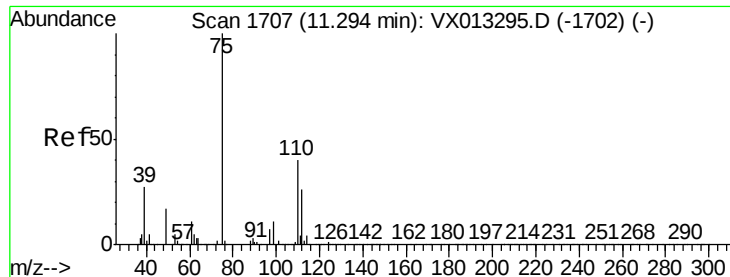


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.467 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013494.D

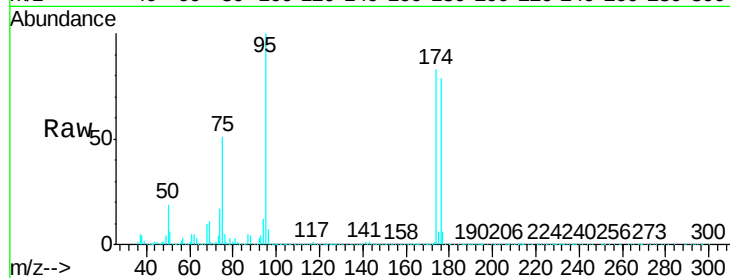
Acq: 21 Nov 2019 11:44

Tgt Ion: 75 Resp: 222725

Ion Ratio Lower Upper

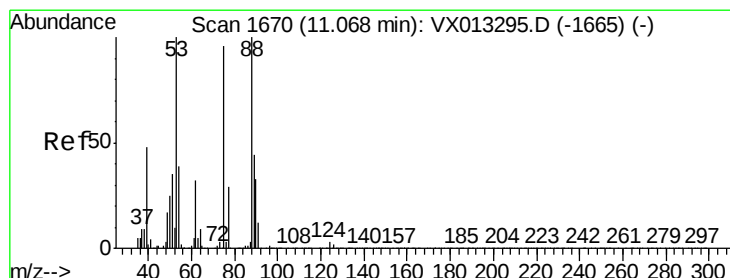
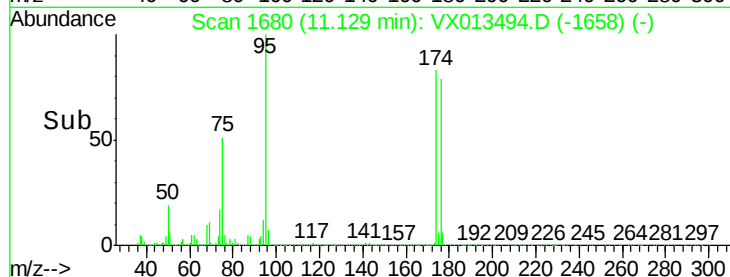
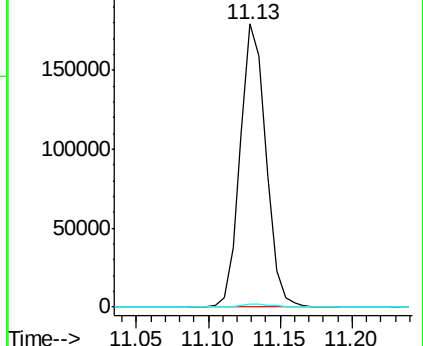
75 100

77 1.6 22.3 66.8#



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: 62.977 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013494.D

Acq: 21 Nov 2019 11:44

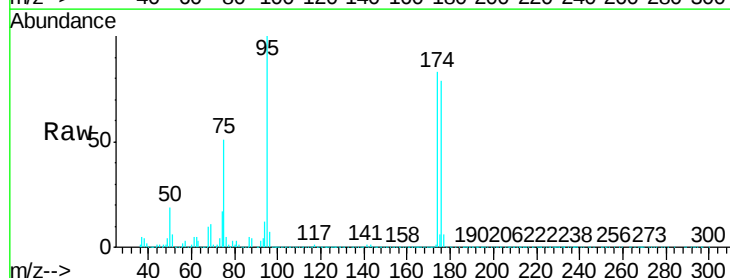
Tgt Ion: 75 Resp: 222725

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.1 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

