

Data Path : W:\HPCHEM1\MSVOA\_U\DATA\VU050818\  
 Data File : VU023735.D  
 Acq On : 08 May 2018 14:20  
 Operator : MD/SY  
 Sample : J2717-03MS  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 03:38:45 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM050818WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed May 09 03:02:40 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 235388   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 230281   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 109481   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |          |
|--------------------------------|---------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 109493   | 59.47    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 118.94%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 85665    | 62.30    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 124.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 197325   | 57.84    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 115.68%  |
| 21) 2-Butanone-d5              | 4.18    | 46    | 179419   | 132.41   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 132.41%# |
| 24) Chloroform-d               | 4.65    | 84    | 186254   | 60.83    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 121.66%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 128553   | 64.90    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 129.80%# |
| 32) Benzene-d6                 | 5.35    | 84    | 405281   | 61.43    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 122.86%  |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 137651   | 63.79    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 127.58%# |
| 41) Toluene-d8                 | 7.57    | 98    | 368833   | 60.25    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 120.50%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 57605    | 61.70    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 123.40%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 129504   | 134.34   | ug/L | 0.00     |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 134.34%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 181840   | 62.20    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 124.40%# |
| 64) 1,2-Dichlorobenzene-d4     | 11.87   | 152   | 146793   | 64.73    | ug/L | 0.00     |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 129.46%# |

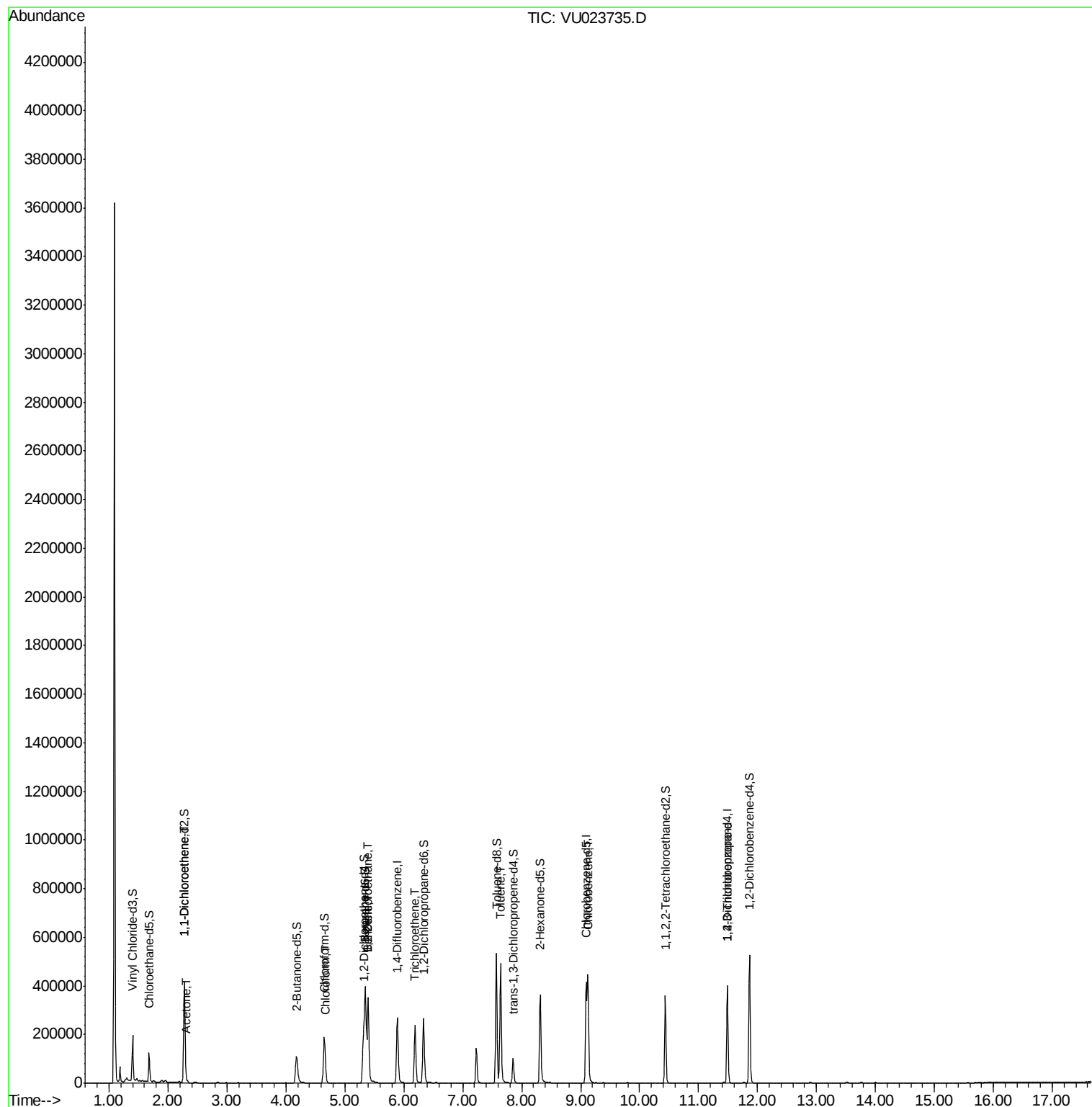
## Target Compounds

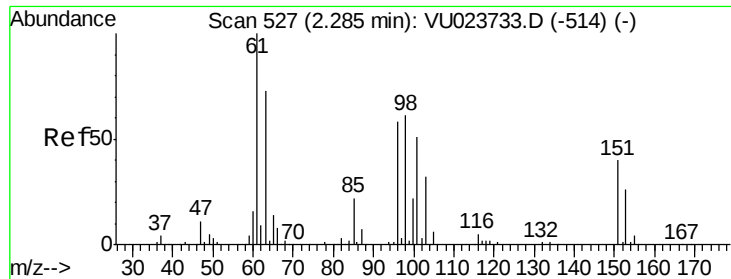
|                            |       |     |        |       |        | Qvalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 12) 1,1-Dichloroethene     | 2.28  | 96  | 73859  | 45.42 | ug/L   | 94     |
| 13) Acetone                | 2.32  | 43  | 7017   | 4.69  | ug/L   | 97     |
| 25) Chloroform             | 4.68  | 83  | 5937   | 1.71  | ug/L   | 93     |
| 27) 1,2-Dichloroethane     | 5.40  | 62  | 3357   | 1.25  | ug/L # | 73     |
| 33) Benzene                | 5.39  | 78  | 354153 | 45.64 | ug/L   | 100    |
| 34) Trichloroethene        | 6.19  | 95  | 86631  | 43.73 | ug/L   | 98     |
| 42) Toluene                | 7.64  | 91  | 363871 | 44.88 | ug/L   | 98     |
| 51) Chlorobenzene          | 9.12  | 112 | 237043 | 43.60 | ug/L   | 100    |
| 59) 1,2,3-Trichloropropane | 11.49 | 75  | 13335  | 5.02  | ug/L   | 97     |

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

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Quant Method : W:\HPCHEM1\MSVOA\_U\METHOD\SOMULM050818WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed May 09 03:02:40 2018  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 45.42 ug/L

RT: 2.28 min Scan# 527

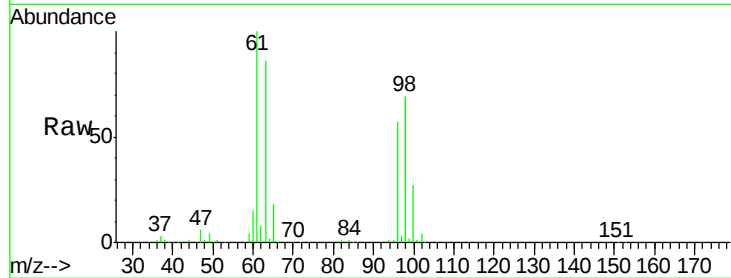
Delta R.T. -0.00 min

Lab File: VU023735.D

Acq: 08 May 2018 14:20

Tgt Ion: 96 Resp: 73859

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 176.1 | 126.4 | 234.8 |
| 63  | 151.5 | 97.3  | 180.7 |

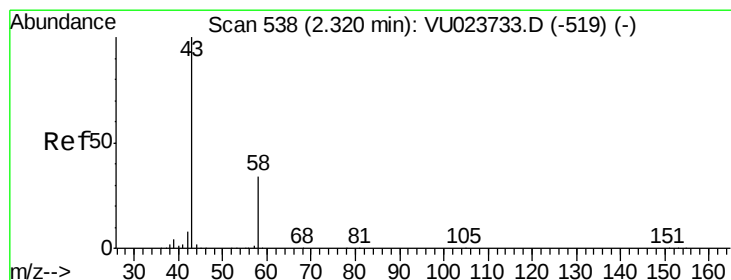
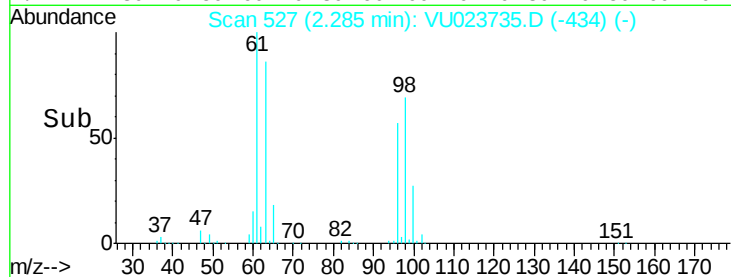
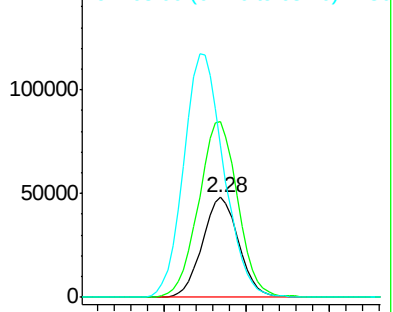


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 4.69 ug/L

RT: 2.32 min Scan# 538

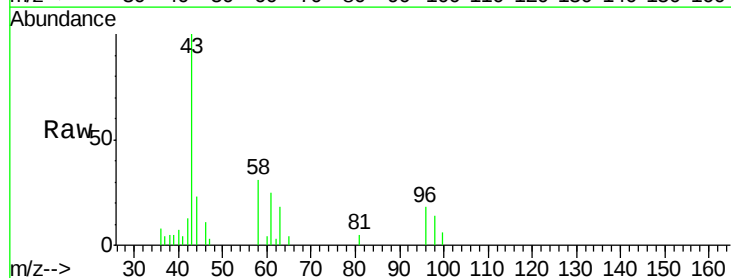
Delta R.T. -0.00 min

Lab File: VU023735.D

Acq: 08 May 2018 14:20

Tgt Ion: 43 Resp: 7017

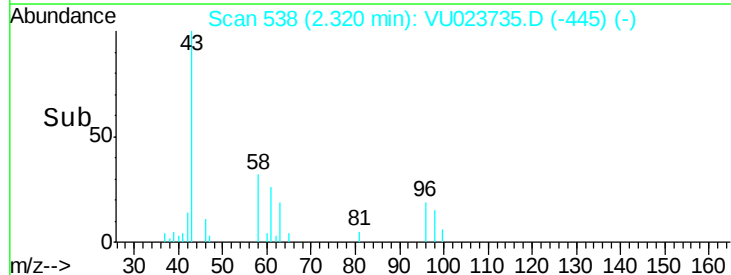
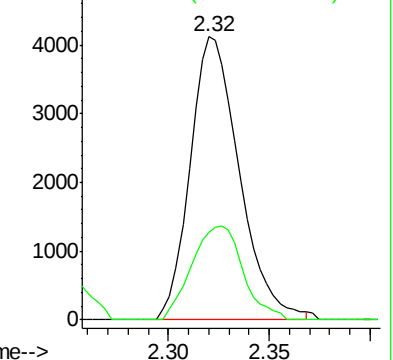
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 34.5  | 0.0   | 65.4  |

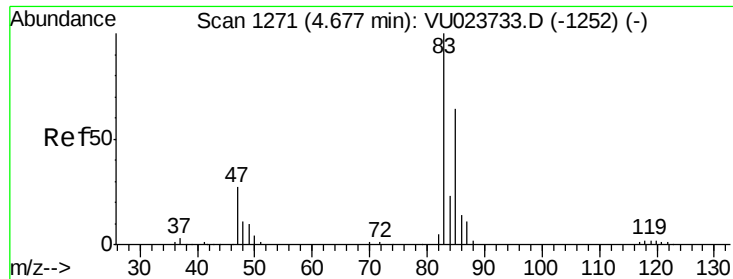


Abundance

Ion 43.00 (42.70 to 43.70): VU0

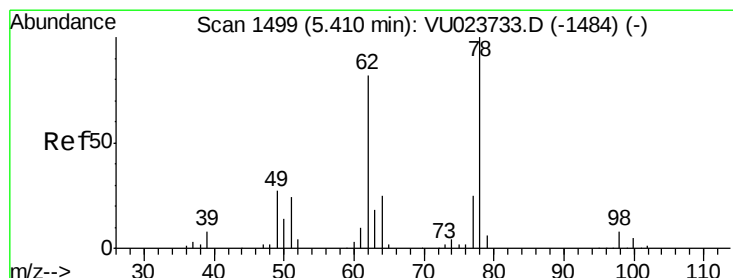
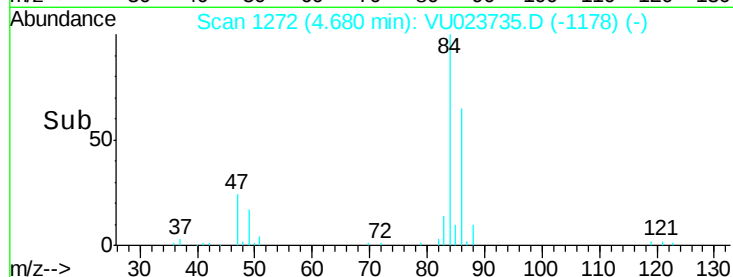
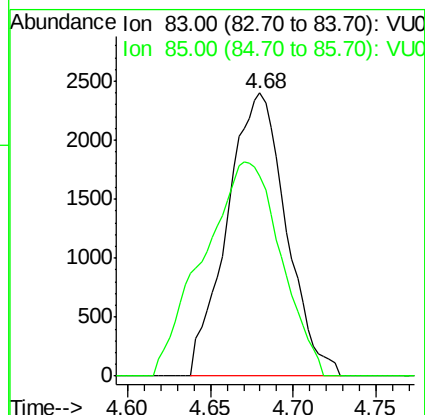
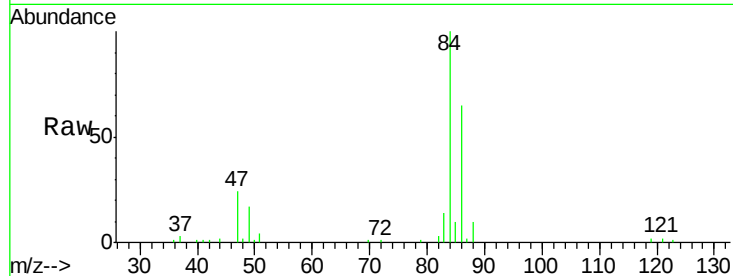
Ion 58.00 (57.70 to 58.70): VU0





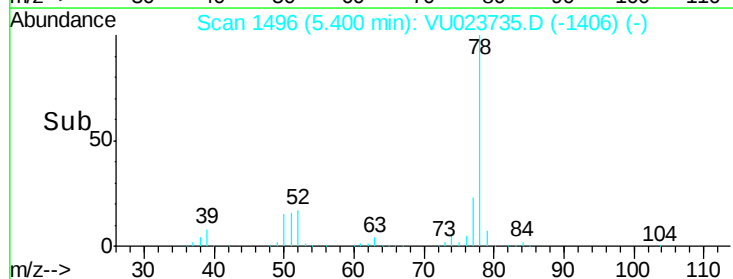
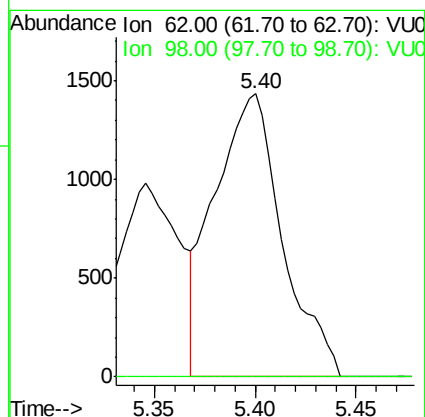
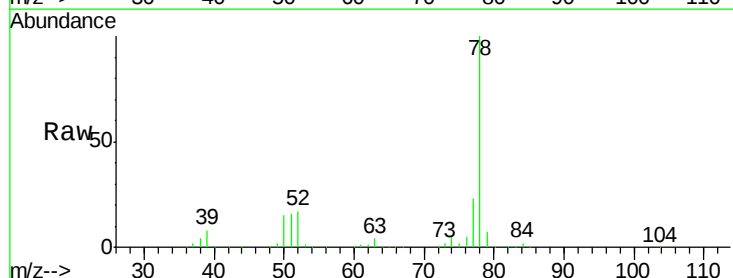
#25  
Chloroform  
Concen: 1.71 ug/L  
RT: 4.68 min Scan# 1272  
Delta R.T. 0.00 min  
Lab File: VU023735.D  
Acq: 08 May 2018 14:20

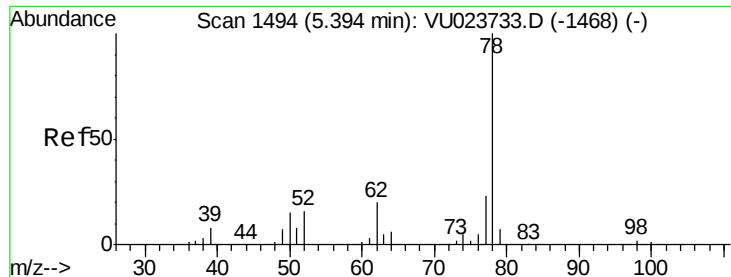
Tgt Ion: 83 Resp: 5937  
Ion Ratio Lower Upper  
83 100  
85 70.9 45.7 84.9



#27  
1,2-Dichloroethane  
Concen: 1.25 ug/L  
RT: 5.40 min Scan# 1496  
Delta R.T. -0.01 min  
Lab File: VU023735.D  
Acq: 08 May 2018 14:20

Tgt Ion: 62 Resp: 3357  
Ion Ratio Lower Upper  
62 100  
98 0.0 7.8 11.8#





#33

Benzene

Concen: 45.64 ug/L

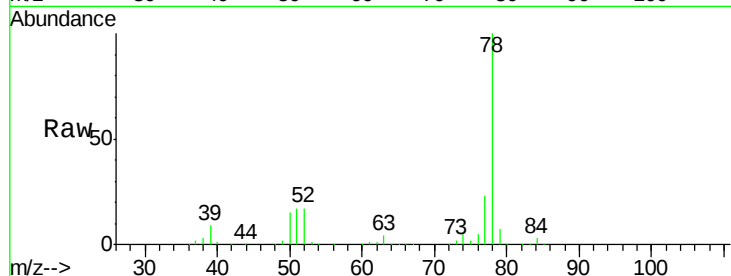
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

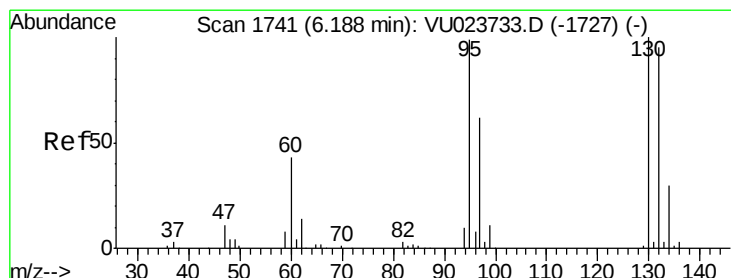
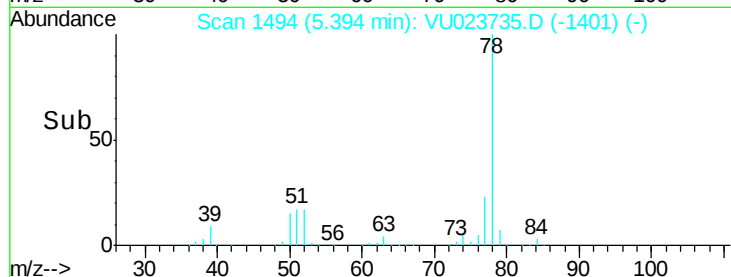
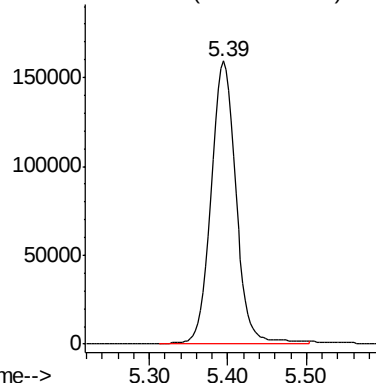
Lab File: VU023735.D

Acq: 08 May 2018 14:20

Tgt Ion: 78 Resp: 354153



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 43.73 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU023735.D

Acq: 08 May 2018 14:20

Tgt Ion: 95 Resp: 86631

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.1  | 44.2  | 82.2  |
| 132 | 98.3  | 67.8  | 125.8 |
| 130 | 101.5 | 69.6  | 129.2 |

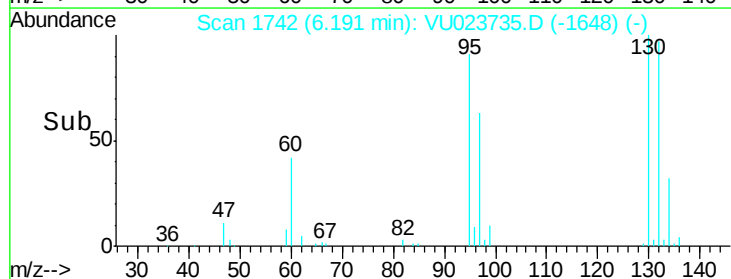
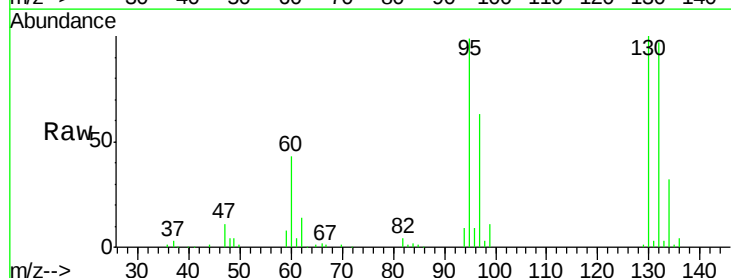
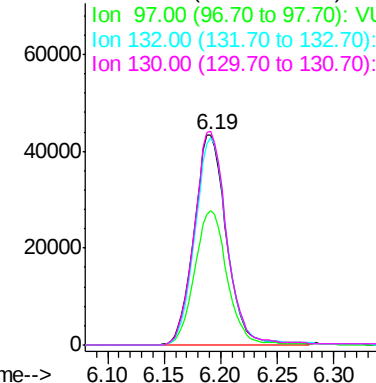
Ion 95.00 (94.70 to 95.70): VU0

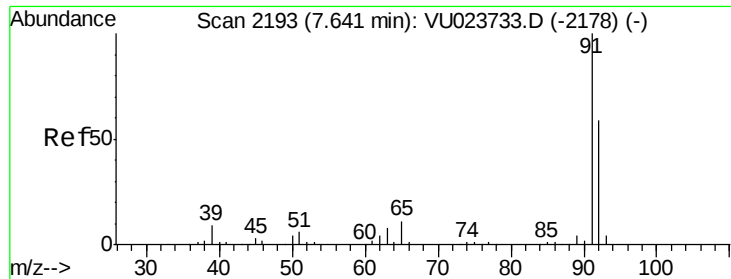
Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Abundance Ion 95.00 (94.70 to 95.70): VU0





#42

Toluene

Concen: 44.88 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VU023735.D

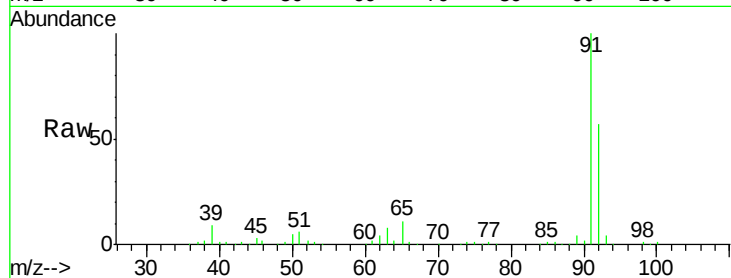
Acq: 08 May 2018 14:20

Tgt Ion: 91 Resp: 363871

Ion Ratio Lower Upper

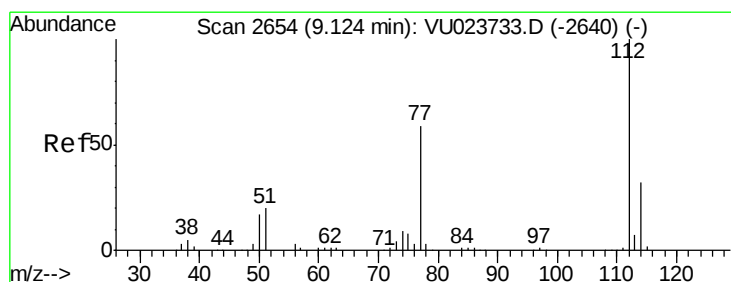
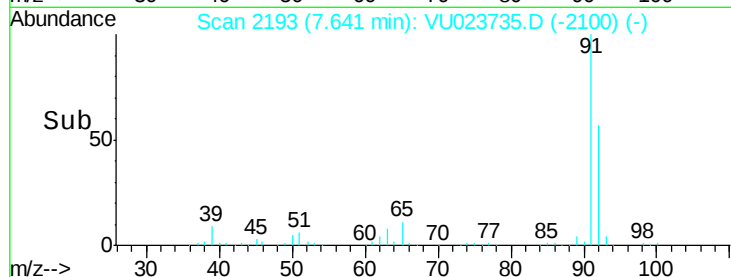
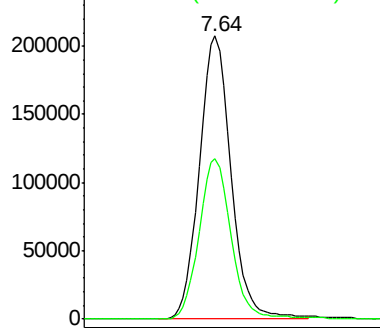
91 100

92 56.8 40.9 76.0



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#51

Chlorobenzene

Concen: 43.60 ug/L

RT: 9.12 min Scan# 2654

Delta R.T. -0.00 min

Lab File: VU023735.D

Acq: 08 May 2018 14:20

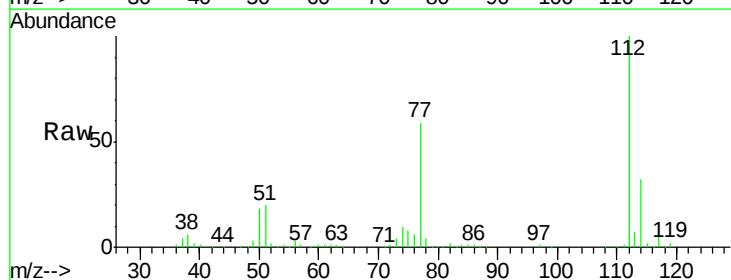
Tgt Ion: 112 Resp: 237043

Ion Ratio Lower Upper

112 100

114 32.1 22.6 42.0

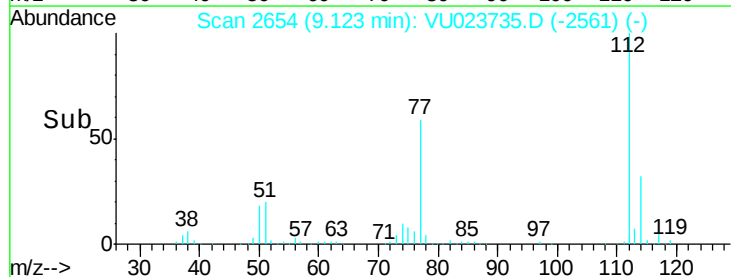
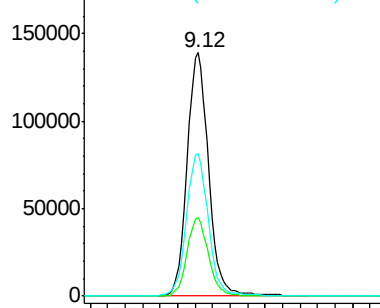
77 58.6 46.9 70.3

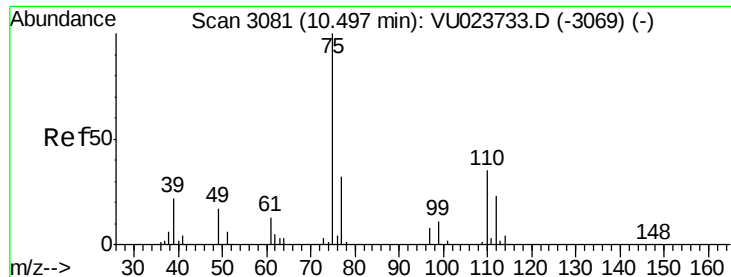


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#59

1,2,3-Trichloropropane

Concen: 5.02 ug/L

RT: 11.49 min Scan# 3389

Delta R.T. 0.99 min

Lab File: VU023735.D

Acq: 08 May 2018 14:20

Tgt Ion: 75 Resp: 13335

Ion Ratio Lower Upper

75 100

77 33.9 25.6 38.4

