

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031220\  
 Data File : VU037210.D  
 Acq On : 12 Mar 2020 23:50  
 Operator : JC/MD  
 Sample : L1886-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Mar 13 08:30:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 13 08:28:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 391167   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 383658   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 162353   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 138487   | 45.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.48%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 118310   | 48.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.94%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 200383   | 36.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.16%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 256715   | 107.15   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.15% |
| 24) Chloroform-d               | 5.10    | 84    | 285820   | 49.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 216131   | 50.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.46% |
| 32) Benzene-d6                 | 5.76    | 84    | 519801   | 49.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.44%  |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 171099   | 49.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.98%  |
| 41) Toluene-d8                 | 7.92    | 98    | 486925   | 48.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.46%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 87575    | 46.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.08%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 174263   | 97.36    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.36%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 252642   | 47.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.36%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 178505   | 53.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.02% |

## Target Compounds

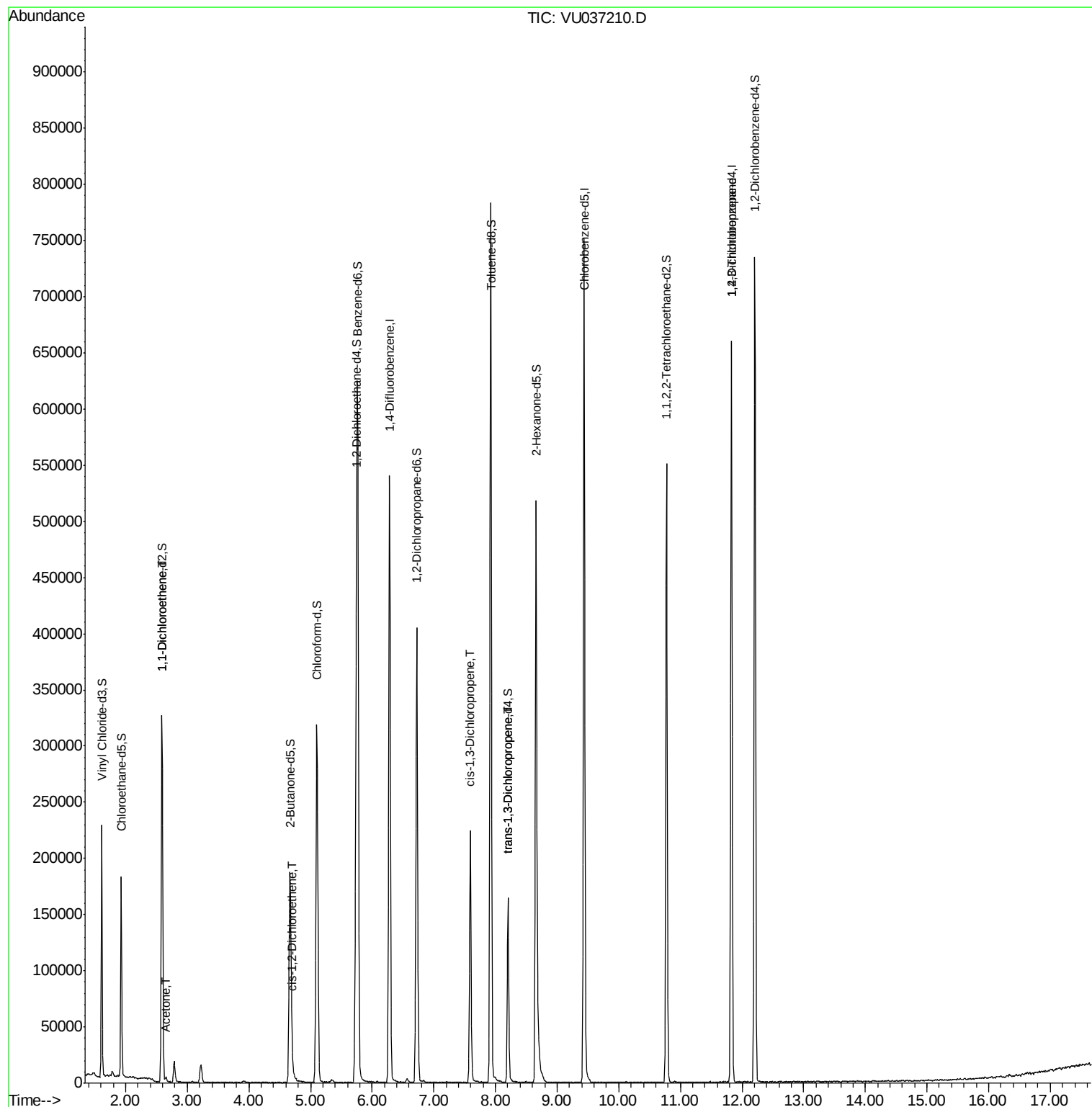
|                               |       |    |       | Ovalue       |    |
|-------------------------------|-------|----|-------|--------------|----|
| 12) 1,1-Dichloroethene        | 2.59  | 96 | 2399  | 1.039 ug/L # | 1  |
| 13) Acetone                   | 2.65  | 43 | 4975  | 2.189 ug/L   | 87 |
| 20) cis-1,2-Dichloroethene    | 4.71  | 96 | 2671  | 0.913 ug/L   | 97 |
| 39) cis-1,3-Dichloropropene   | 7.59  | 75 | 6662  | 1.337 ug/L # | 72 |
| 44) trans-1,3-Dichloropropene | 8.21  | 75 | 4640  | 0.986 ug/L   | 85 |
| 59) 1,2,3-Trichloropropane    | 11.83 | 75 | 23189 | 5.190 ug/L # | 88 |

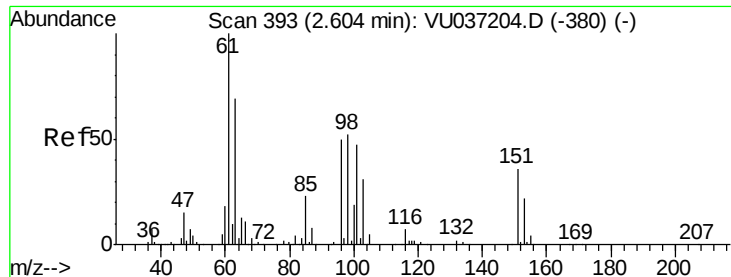
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L1886-01  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Mar 13 08:30:51 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031220WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Mar 13 08:28:33 2020  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 1.039 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU037210.D

Acq: 12 Mar 2020 23:50

Instrument :  
MSVOA\_U  
ClientSampleId :

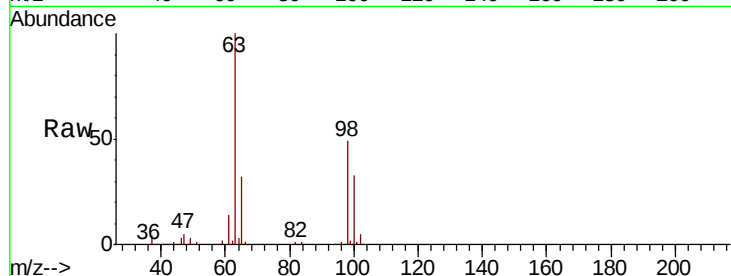
Tot Ion: 96 Resp: 2399

Ion Ratio Lower Upper

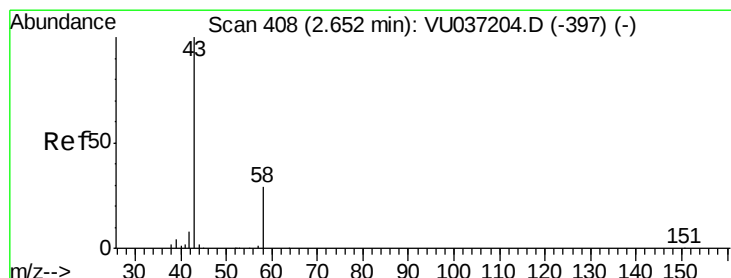
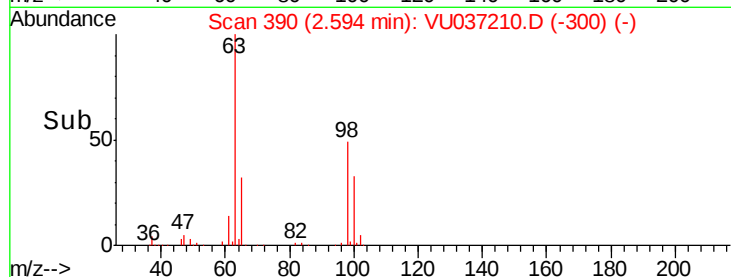
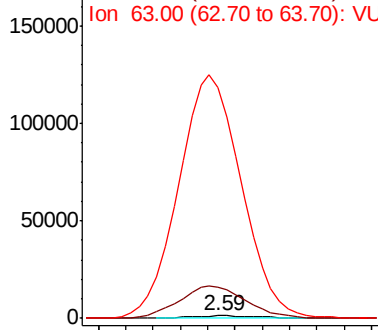
96 100

61 1308.7 138.8 257.8#

63 9533.7 106.4 197.6#



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: 2.189 ug/L

RT: 2.65 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037210.D

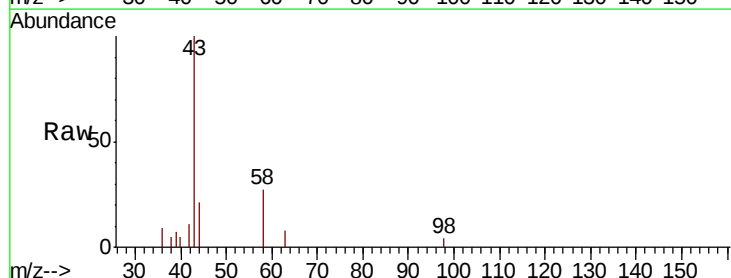
Acq: 12 Mar 2020 23:50

Tgt Ion: 43 Resp: 4975

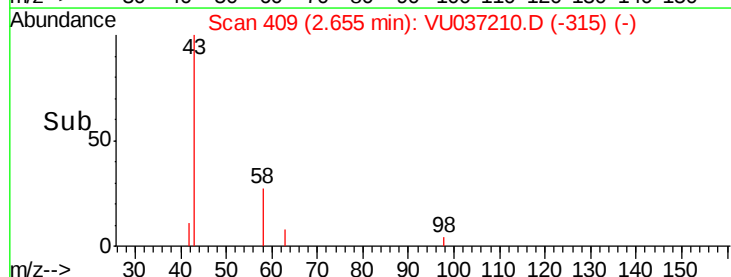
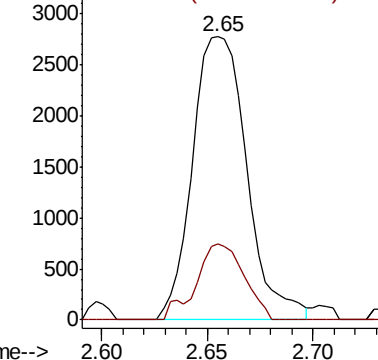
Ion Ratio Lower Upper

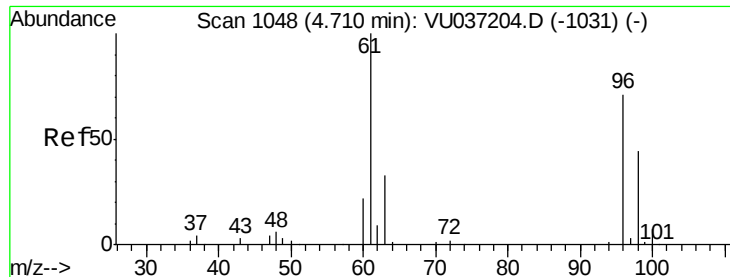
43 100

58 21.6 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VU0  
Ion 58.00 (57.70 to 58.70): VU0

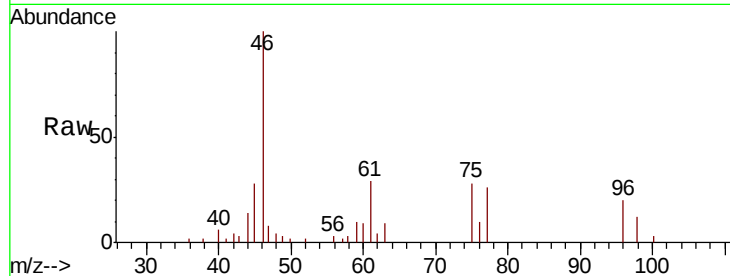




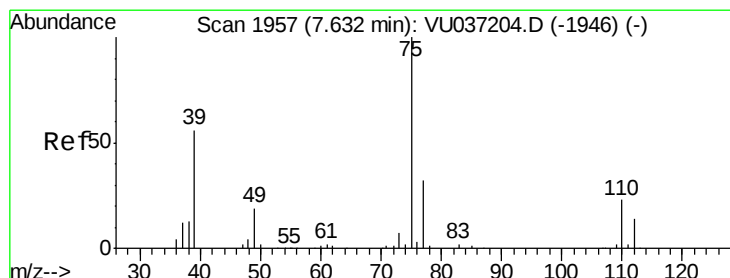
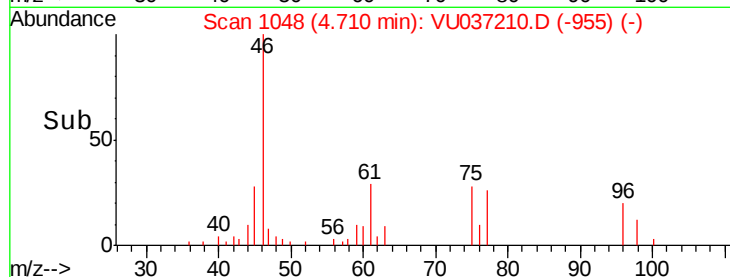
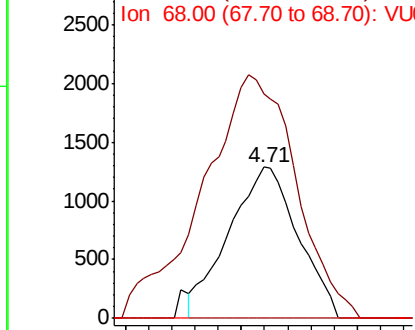
#20  
 cis-1,2-Dichloroethene  
 Concen: 0.913 ug/L  
 RT: 4.71 min Scan# 1048  
 Delta R.T. -0.00 min  
 Lab File: VU037210.D  
 Acq: 12 Mar 2020 23:50

Instrument :  
 MSVOA\_U  
 ClientSampled :

Tot Ion: 96 Resp: 2671  
 Ion Ratio Lower Upper  
 96 100  
 61 148.4 101.2 187.8  
 68 0.0 0.0 0.0

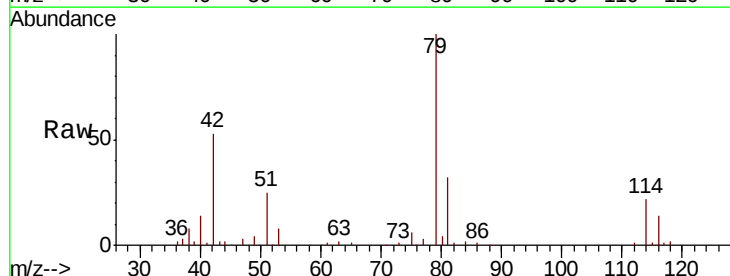


Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.00 (60.70 to 61.70): VU0  
 Ion 68.00 (67.70 to 68.70): VU0

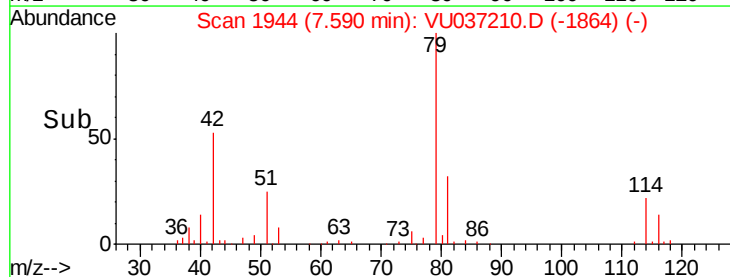
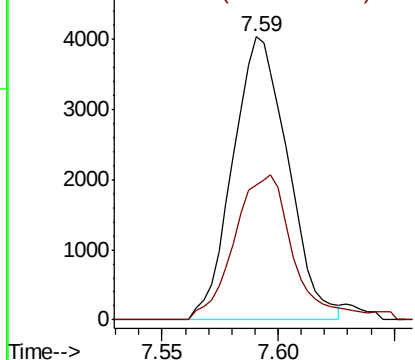


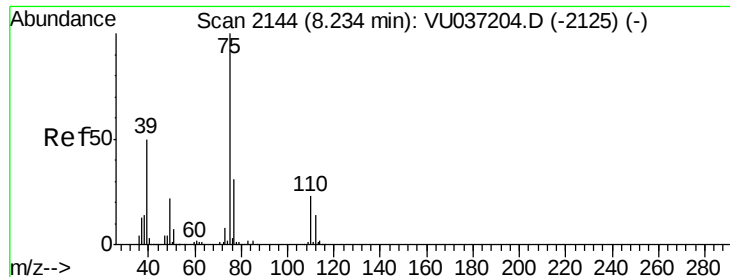
#39  
 cis-1,3-Dichloropropene  
 Concen: 1.337 ug/L  
 RT: 7.59 min Scan# 1944  
 Delta R.T. -0.04 min  
 Lab File: VU037210.D  
 Acq: 12 Mar 2020 23:50

Tgt Ion: 75 Resp: 6662  
 Ion Ratio Lower Upper  
 75 100  
 77 47.9 22.5 41.9#



Abundance Ion 75.00 (74.70 to 75.70): VU0  
 Ion 77.00 (76.70 to 77.70): VU0





#44

trans-1,3-Dichloropropene

Concen: 0.986 ug/L

RT: 8.21 min Scan# 2136

Delta R.T. -0.03 min

Lab File: VU037210.D

Acq: 12 Mar 2020 23:50

Instrument :

MSVOA\_U

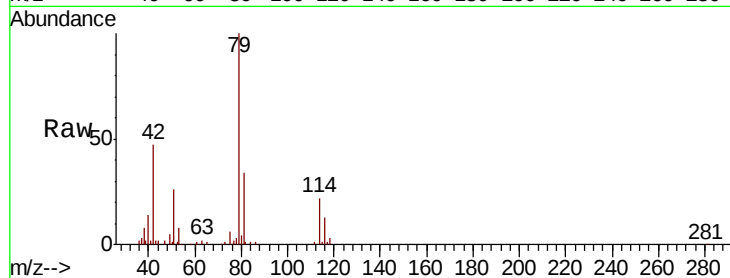
ClientSampleId :

Tot Ion: 75 Resp: 4640

Ion Ratio Lower Upper

75 100

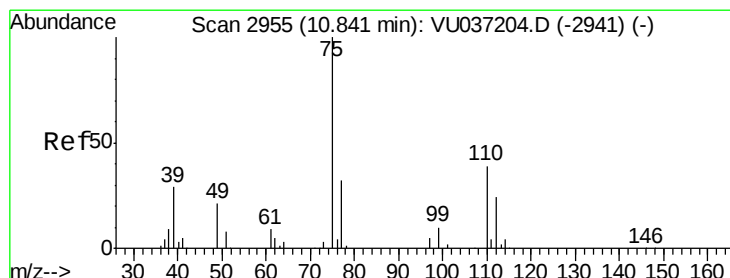
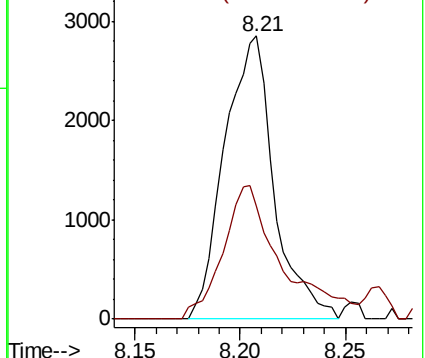
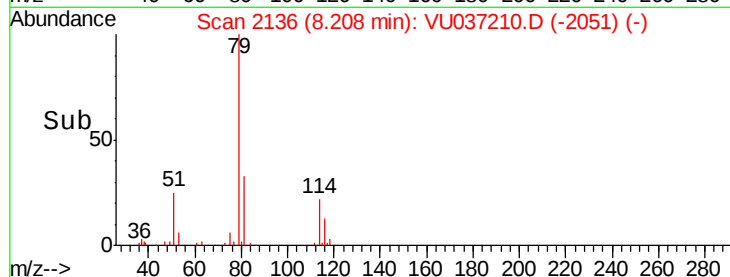
77 39.9 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU037210.D (-2051) (-)

Ion 77.00 (76.70 to 77.70): VU037210.D (-2051) (-)

Time-->



#59

1,2,3-Trichloropropane

Concen: 5.190 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. 0.99 min

Lab File: VU037210.D

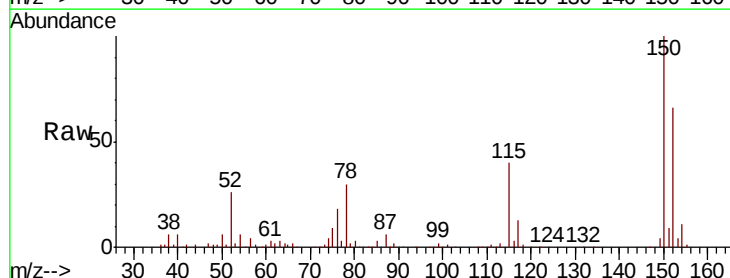
Acq: 12 Mar 2020 23:50

Tgt Ion: 75 Resp: 23189

Ion Ratio Lower Upper

75 100

77 38.1 25.0 37.6#



Abundance Ion 75.00 (74.70 to 75.70): VU037210.D (-2333) (-)

Ion 77.00 (76.70 to 77.70): VU037210.D (-2333) (-)

Time-->

