

Data File : VU033409.D  
Acq On : 25 Jul 2019 14:44  
Operator : JC/SP  
Sample : K3957-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F2A21

Quant Time: Jul 26 04:38:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 26 04:32:42 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 270925   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 279198   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 120115   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 75823    | 36.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 73.94%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 76107    | 43.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 86.88%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 125196   | 33.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.30%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 129831   | 99.91    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 99.91%  |
| 24) Chloroform-d               | 4.62    | 84    | 154900   | 45.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.14%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 109202   | 49.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.08%  |
| 32) Benzene-d6                 | 5.32    | 84    | 305223   | 44.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.12%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 103975   | 47.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 94.78%  |
| 41) Toluene-d8                 | 7.55    | 98    | 265046   | 41.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.08%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 44120    | 41.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.02%  |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 92363    | 93.38    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.38%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 161303   | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.14%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 109021   | 50.90    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.80% |

#### Target Compounds

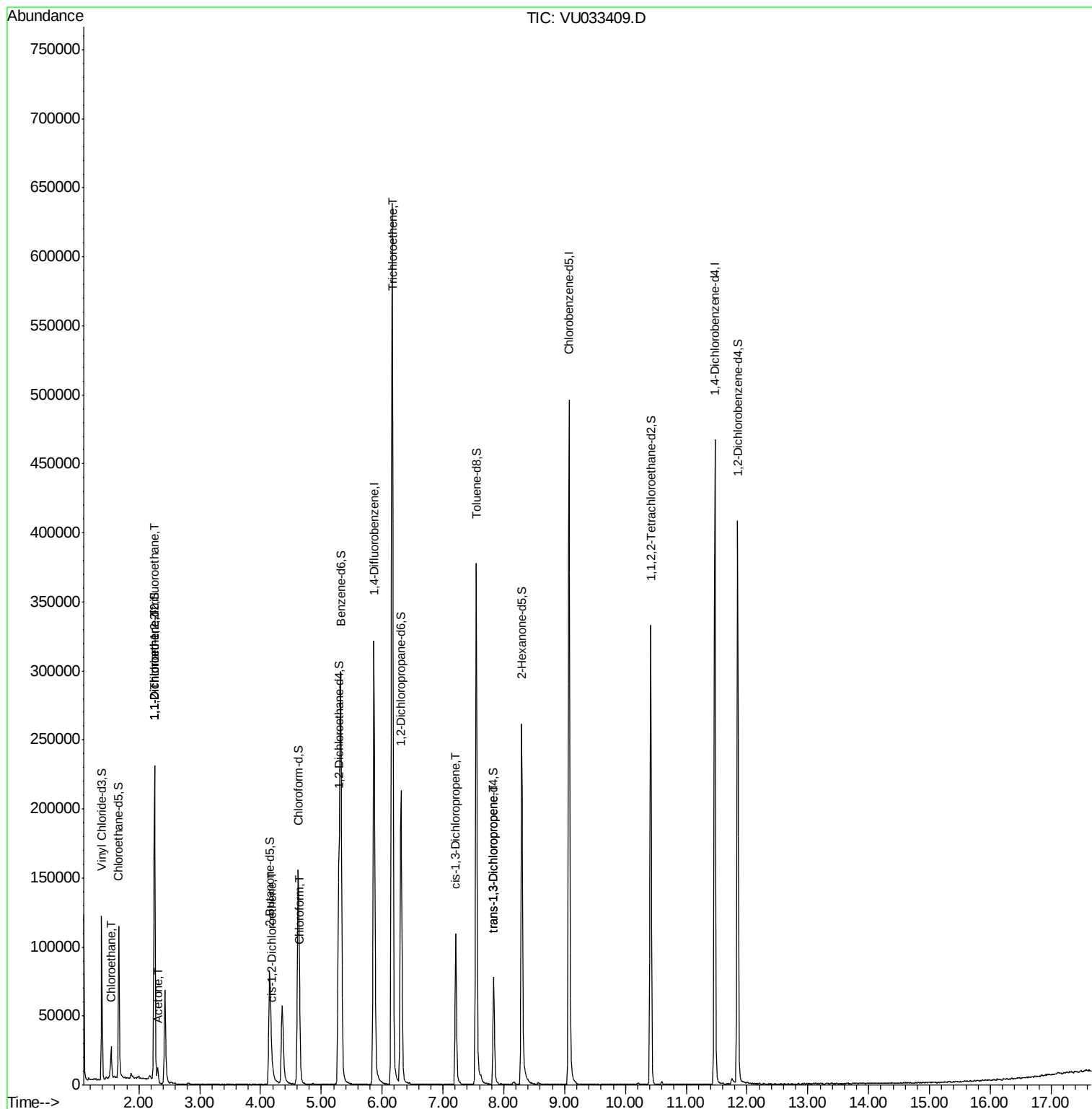
|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 8) Chloroethane                | 1.54 | 64  | 950    | 0.514 ug/L   | 94     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.25 | 101 | 1067   | 0.577 ug/L # | 21     |
| 12) 1,1-Dichloroethene         | 2.26 | 96  | 1576   | 0.872 ug/L # | 1      |
| 13) Acetone                    | 2.31 | 43  | 10475  | 6.452 ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 4.19 | 96  | 1397   | 0.663 ug/L   | 92     |
| 25) Chloroform                 | 4.65 | 83  | 6622   | 1.733 ug/L   | 85     |
| 34) Trichloroethene            | 6.16 | 95  | 224649 | 105.499 ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 7.21 | 75  | 2865   | 0.846 ug/L # | 68     |
| 44) trans-1,3-Dichloropropene  | 7.83 | 75  | 2112   | 0.692 ug/L # | 82     |

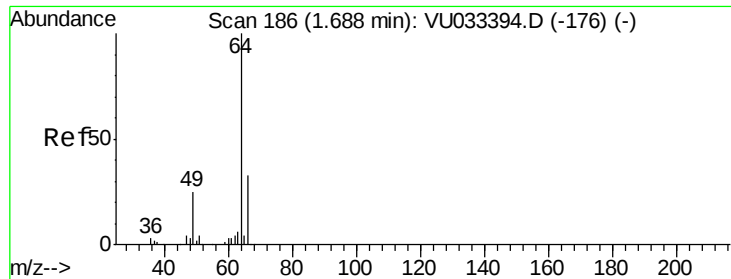
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
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#8

Chloroethane

Concen: 0.514 ug/L

RT: 1.54 min Scan# 141

Delta R.T. -0.14 min

Lab File: VU033409.D

Acq: 25 Jul 2019 14:44

Instrument :

MSVOA\_U

ClientSampleId :

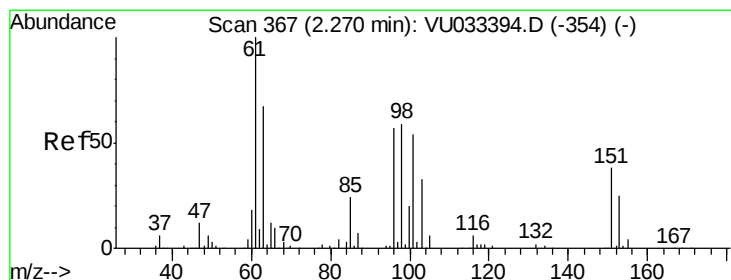
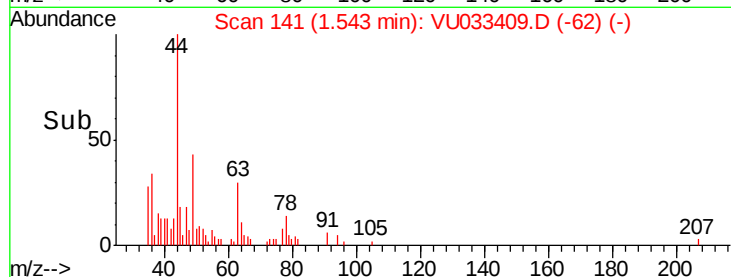
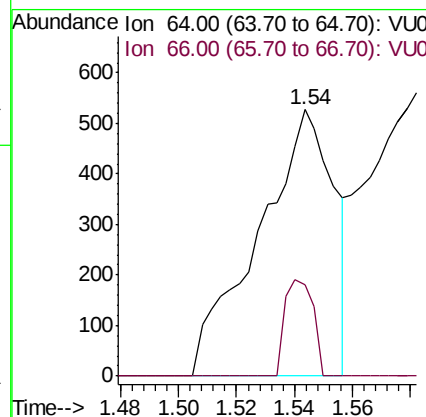
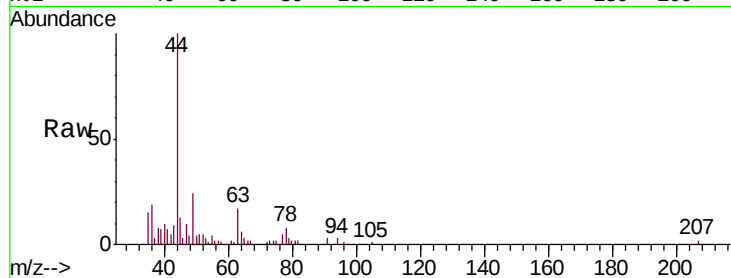
F2A21

Tgt Ion: 64 Resp: 950

Ion Ratio Lower Upper

64 100

66 34.2 21.6 40.0



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.577 ug/L

RT: 2.25 min Scan# 361

Delta R.T. -0.02 min

Lab File: VU033409.D

Acq: 25 Jul 2019 14:44

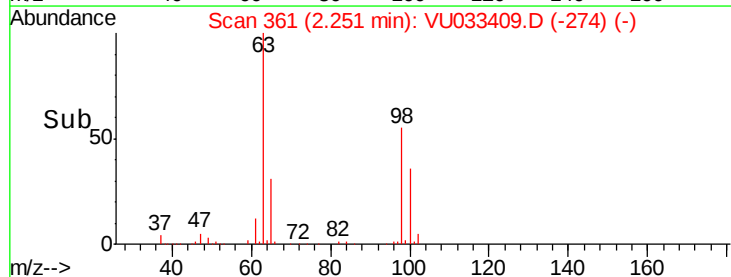
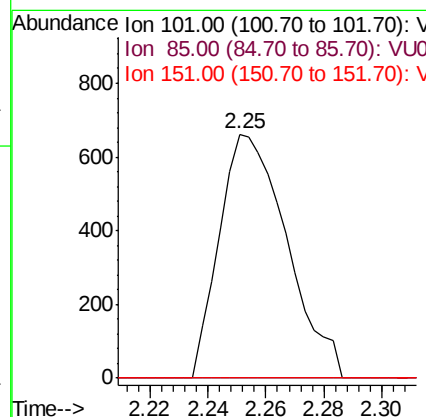
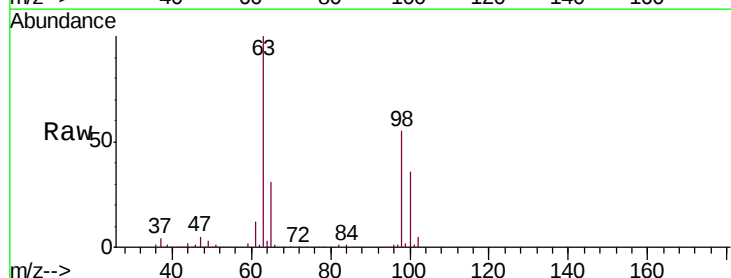
Tgt Ion: 101 Resp: 1067

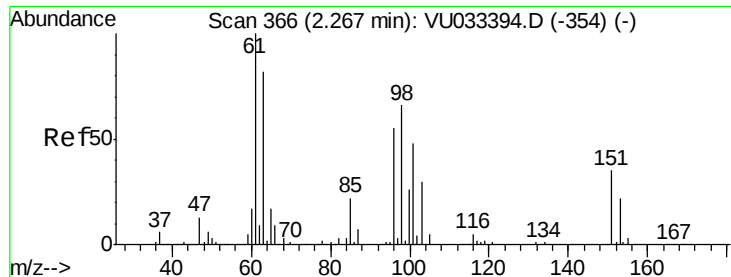
Ion Ratio Lower Upper

101 100

85 0.0 35.8 53.8#

151 0.0 56.7 85.1#





#12

1,1-Dichloroethene

Concen: 0.872 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033409.D

Acq: 25 Jul 2019 14:44

Instrument :

MSVOA\_U

ClientSampleId :

F2A21

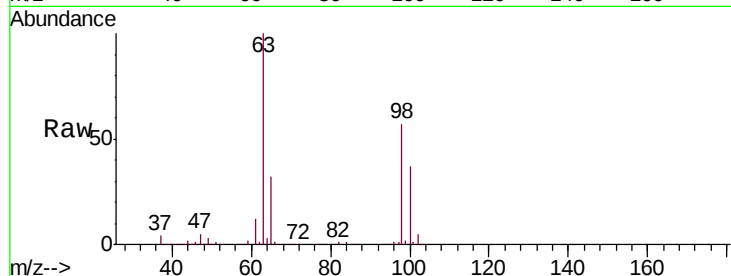
Tgt Ion: 96 Resp: 1576

Ion Ratio Lower Upper

96 100

61 1089.0 126.1 234.1#

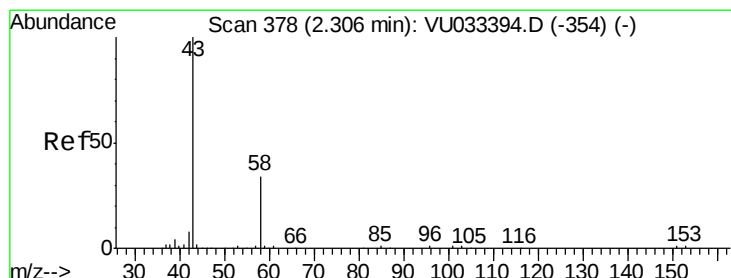
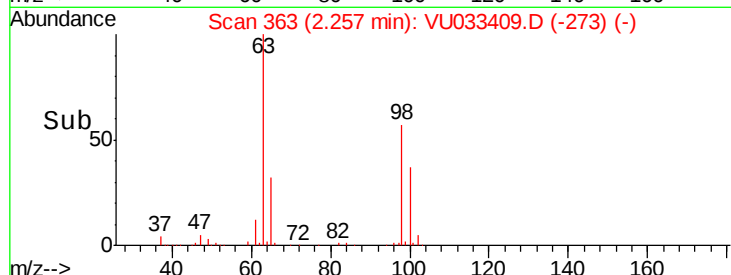
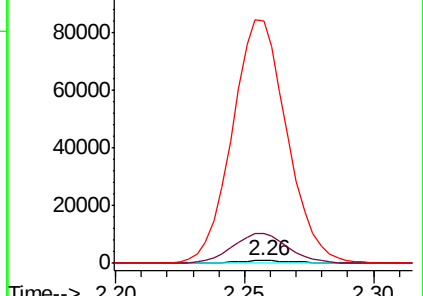
63 8856.5 96.8 179.8#



Abundance Ion 96.00 (95.70 to 96.70): VU033409.D (-273) (-)

Ion 61.00 (60.70 to 61.70): VU033409.D (-273) (-)

Ion 63.00 (62.70 to 63.70): VU033409.D (-273) (-)



#13

Acetone

Concen: 6.452 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU033409.D

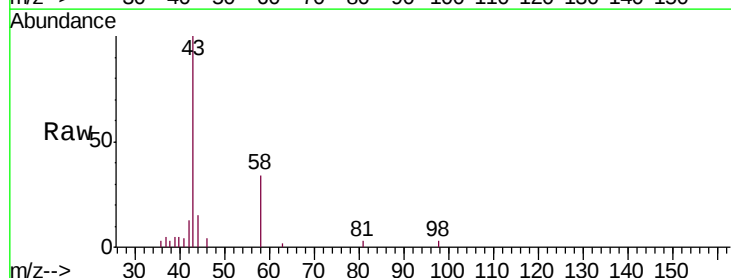
Acq: 25 Jul 2019 14:44

Tgt Ion: 43 Resp: 10475

Ion Ratio Lower Upper

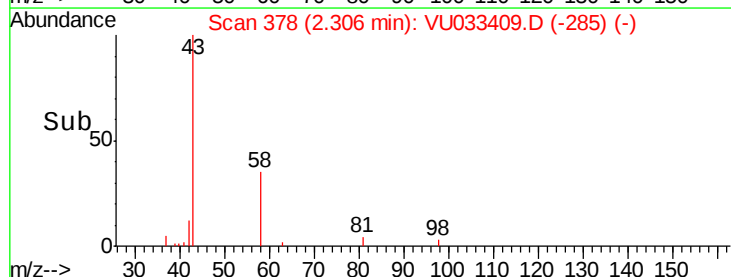
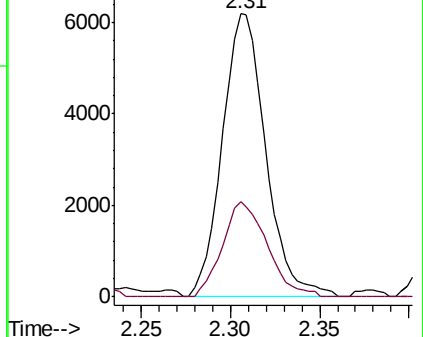
43 100

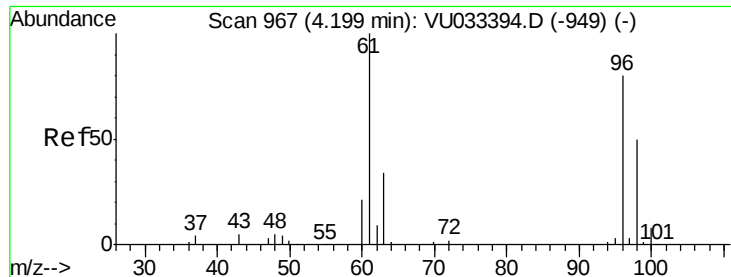
58 34.7 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033409.D (-285) (-)

Ion 58.00 (57.70 to 58.70): VU033409.D (-285) (-)

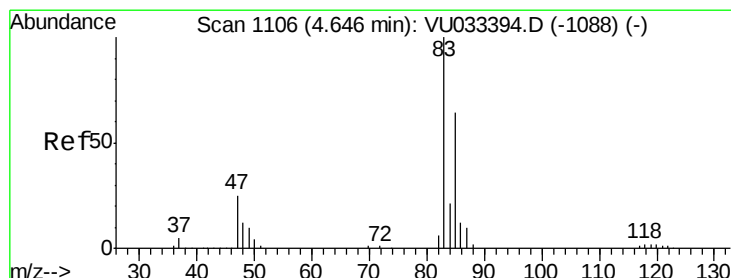
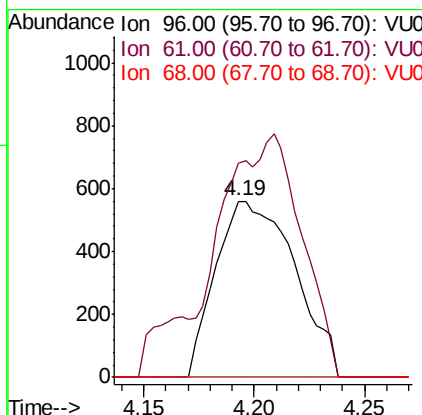
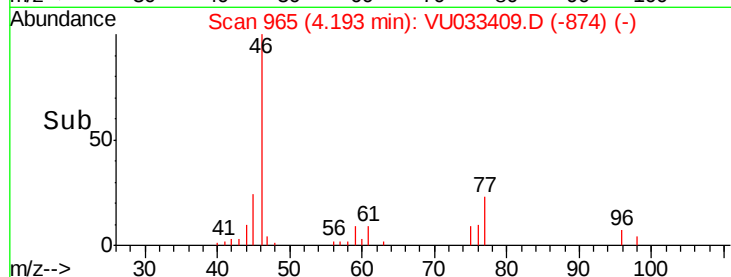
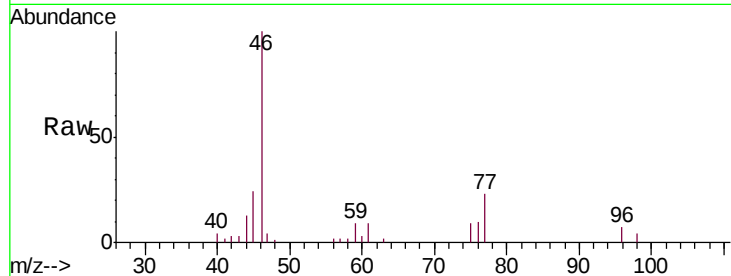




#20  
 cis-1,2-Dichloroethene  
 Concen: 0.663 ug/L  
 RT: 4.19 min Scan# 965  
 Delta R.T. -0.01 min  
 Lab File: VU033409.D  
 Acq: 25 Jul 2019 14:44

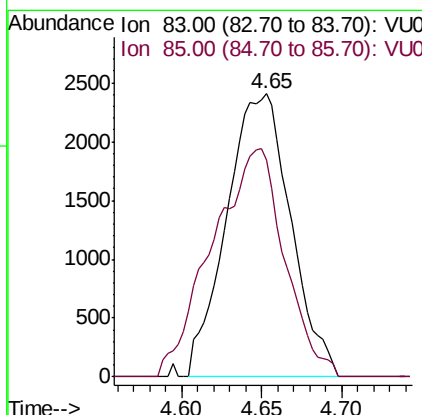
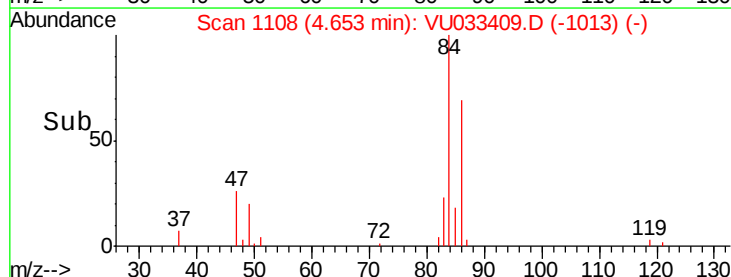
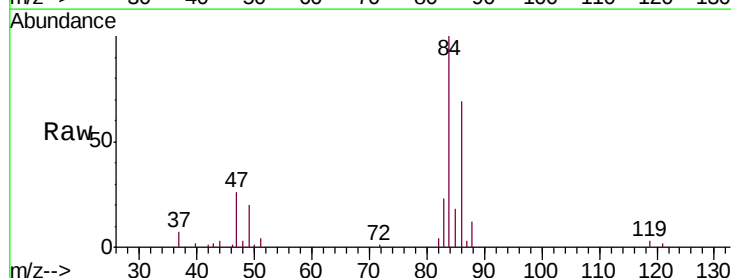
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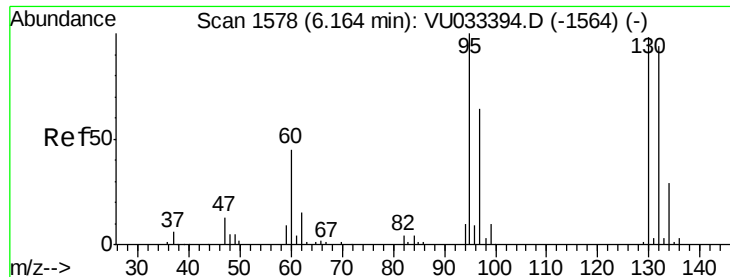
Tgt Ion: 96 Resp: 1397  
 Ion Ratio Lower Upper  
 96 100  
 61 121.2 91.1 169.1  
 68 0.0 0.0 0.0



#25  
 Chloroform  
 Concen: 1.733 ug/L  
 RT: 4.65 min Scan# 1108  
 Delta R.T. 0.01 min  
 Lab File: VU033409.D  
 Acq: 25 Jul 2019 14:44

Tgt Ion: 83 Resp: 6622  
 Ion Ratio Lower Upper  
 83 100  
 85 76.6 45.4 84.4





#34

Trichloroethene

Concen: 105.499 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033409.D

Acq: 25 Jul 2019 14:44

Instrument :

MSVOA\_U

ClientSampleId :

F2A21

Tgt Ion: 95 Resp: 224649

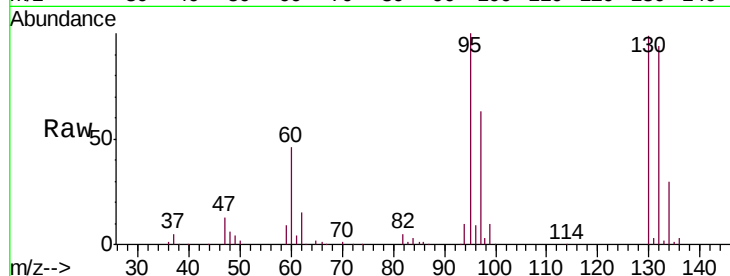
Ion Ratio Lower Upper

95 100

97 62.6 43.8 81.4

132 93.7 65.5 121.6

130 99.2 69.7 129.5

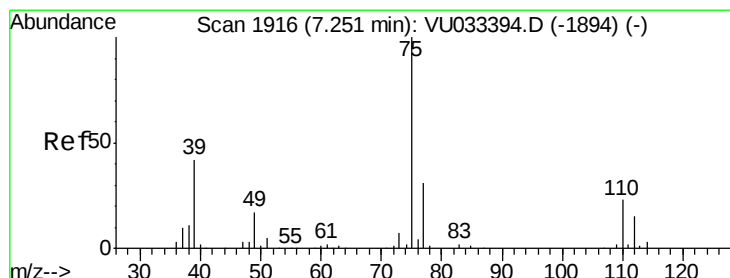
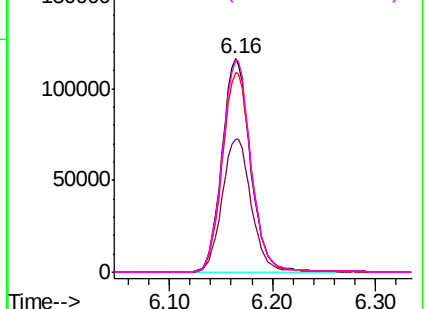
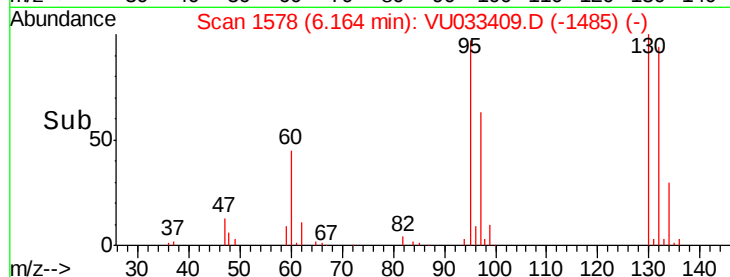


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#39

cis-1,3-Dichloropropene

Concen: 0.846 ug/L

RT: 7.21 min Scan# 1903

Delta R.T. -0.04 min

Lab File: VU033409.D

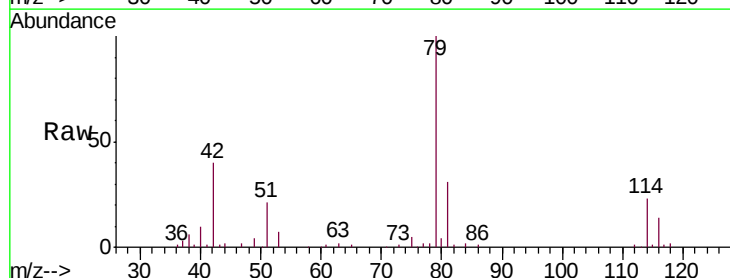
Acq: 25 Jul 2019 14:44

Tgt Ion: 75 Resp: 2865

Ion Ratio Lower Upper

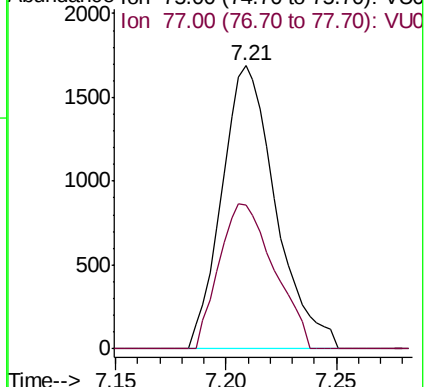
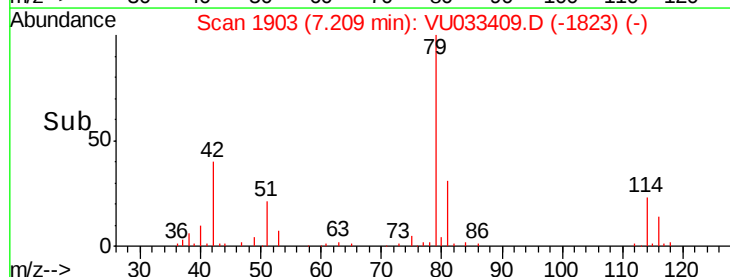
75 100

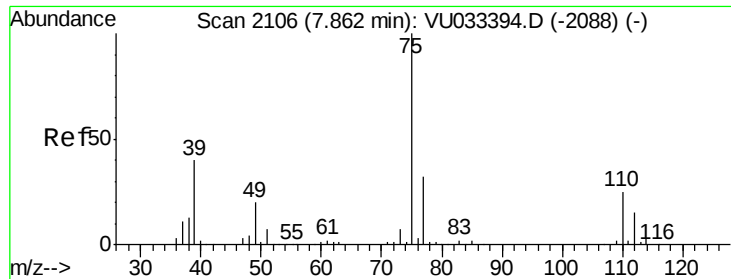
77 51.0 23.1 42.9#



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: 0.692 ug/L

RT: 7.83 min Scan# 2097

Delta R.T. -0.03 min

Lab File: VU033409.D

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Instrument :

MSVOA\_U

ClientSampleId :

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Tgt Ion: 75 Resp: 2112

Ion Ratio Lower Upper

75 100

77 41.9 22.4 41.6#

