

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU071718\  
 Data File : VU025482.D  
 Acq On : 18 Jul 2018 01:35  
 Operator : MD/SY  
 Sample : J3984-13DL 100X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB189DL

Quant Time: Jul 18 06:49:01 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 18 06:47:36 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 331558   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 300284   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 140226   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 67702    | 43.30    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.60% |
| 7) Chloroethane-d5             | 1.68    | 69    | 61251    | 45.98    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 91.96% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 116263   | 33.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 67.72% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 149476   | 89.84    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 89.84% |
| 24) Chloroform-d               | 4.65    | 84    | 182192   | 44.92    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.84% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 129746   | 47.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.00% |
| 32) Benzene-d6                 | 5.35    | 84    | 345472   | 47.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.22% |
| 36) 1,2-Dichloropropane-d6     | 6.34    | 67    | 115013   | 47.86    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 95.72% |
| 41) Toluene-d8                 | 7.57    | 98    | 322928   | 45.97    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.94% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 53789    | 43.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.00% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 107626   | 86.39    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 86.39% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 162593   | 45.57    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 91.14% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 137164   | 48.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.62% |

## Target Compounds

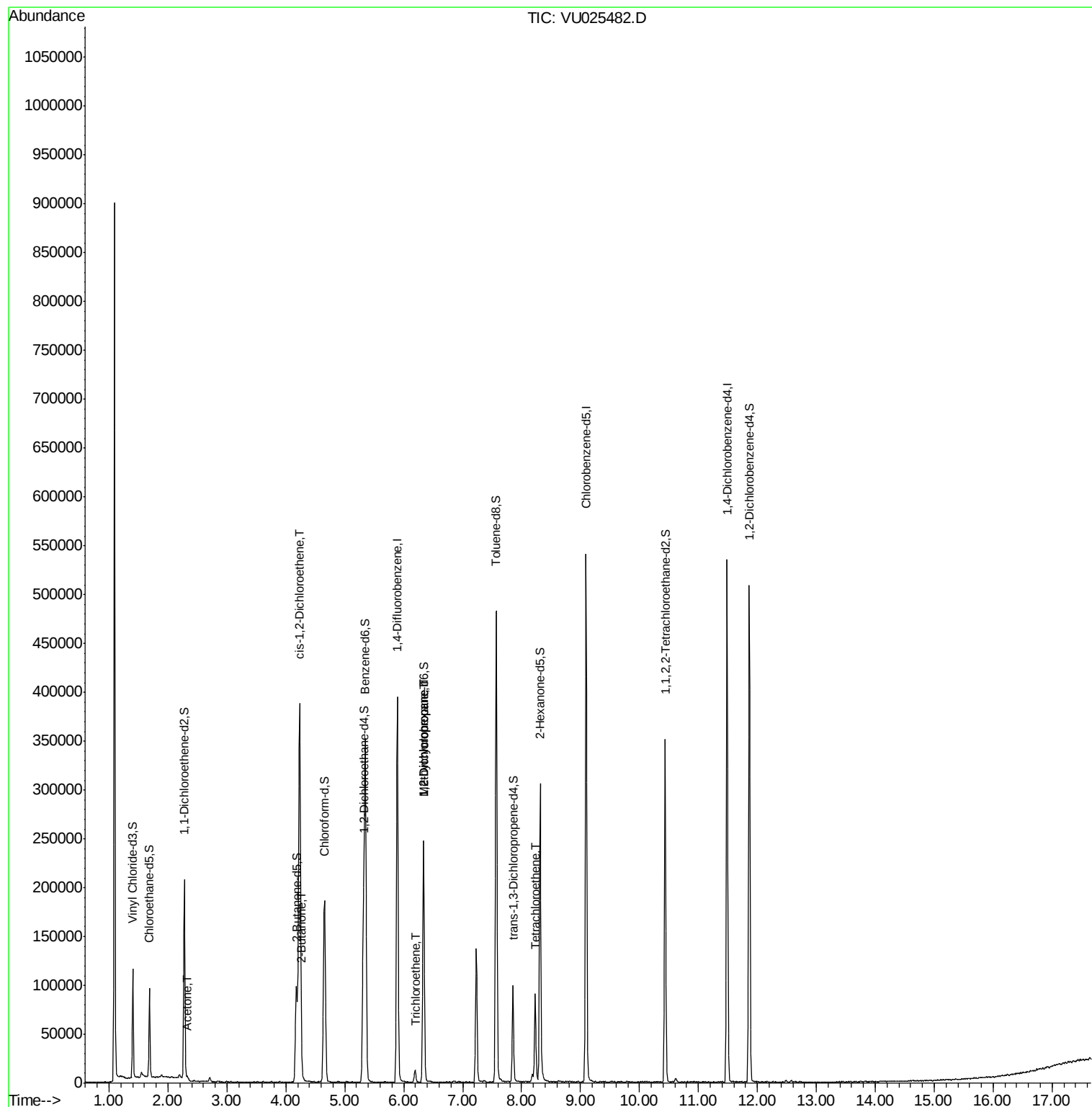
|                            |      |     |        |              | Qvalue |
|----------------------------|------|-----|--------|--------------|--------|
| 13) Acetone                | 2.32 | 43  | 4486   | 3.088 ug/L   | 97     |
| 20) cis-1,2-Dichloroethene | 4.23 | 96  | 216925 | 83.351 ug/L  | 99     |
| 22) 2-Butanone             | 4.27 | 43  | 3669   | 1.835 ug/L   | 87     |
| 34) Trichloroethene        | 6.19 | 95  | 4145   | 1.763 ug/L   | 96     |
| 35) Methylcyclohexane      | 6.34 | 83  | 27750  | 7.772 ug/L # | 18     |
| 37) 1,2-Dichloropropane    | 6.34 | 63  | 13306  | 5.430 ug/L # | 88     |
| 46) Tetrachloroethene      | 8.23 | 164 | 20116  | 10.254 ug/L  | 95     |

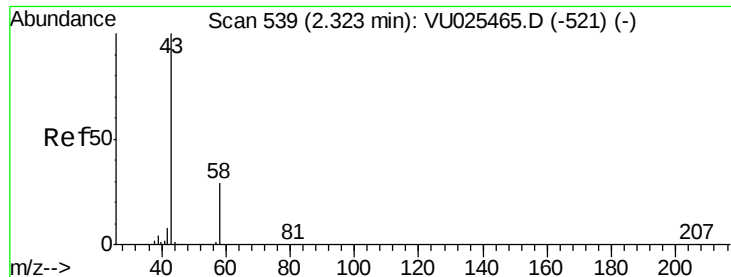
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Wed Jul 18 06:47:36 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 3.088 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025482.D

Acq: 18 Jul 2018 01:35

Instrument :

MSVOA\_U

ClientSampleId :

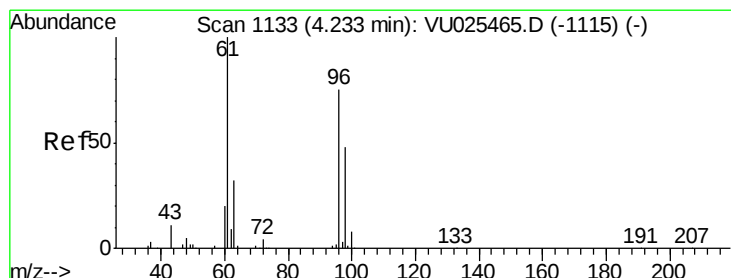
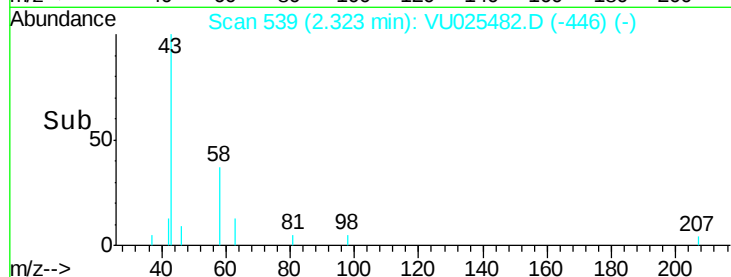
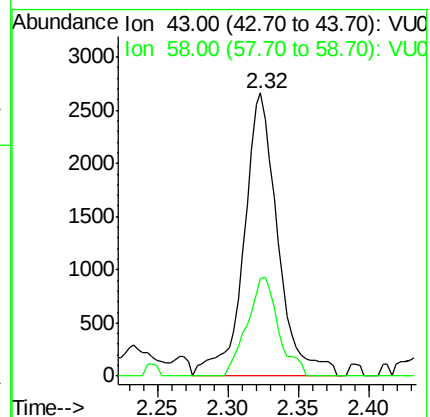
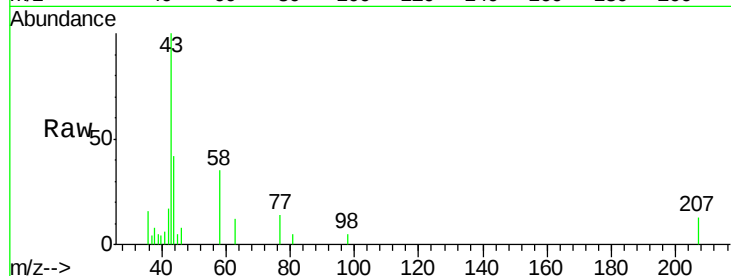
DB189DL

Tgt Ion: 43 Resp: 4486

Ion Ratio Lower Upper

43 100

58 31.0 0.0 59.0



#20

cis-1,2-Dichloroethene

Concen: 83.351 ug/L

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025482.D

Acq: 18 Jul 2018 01:35

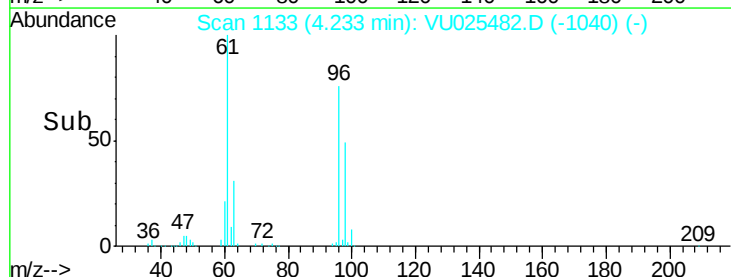
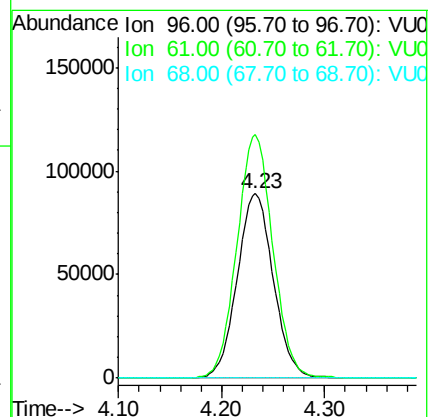
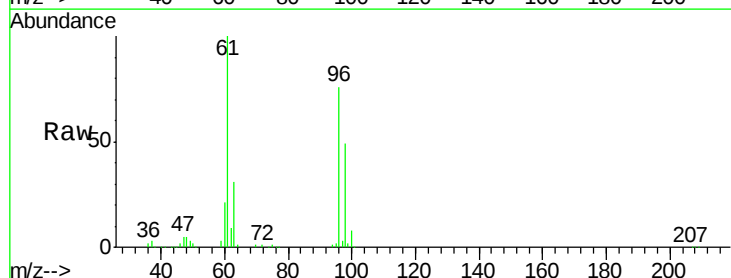
Tgt Ion: 96 Resp: 216925

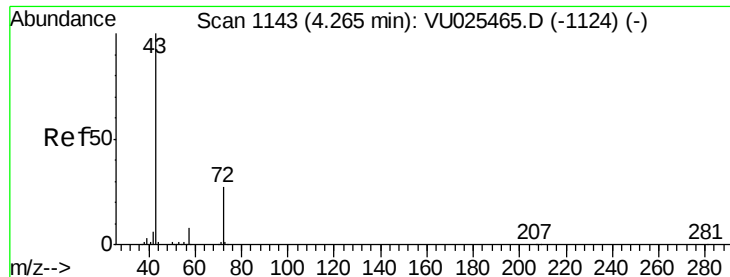
Ion Ratio Lower Upper

96 100

61 131.9 91.7 170.3

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 1.835 ug/L

RT: 4.27 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VU025482.D

Acq: 18 Jul 2018 01:35

Instrument :

MSVOA\_U

ClientSampleId :

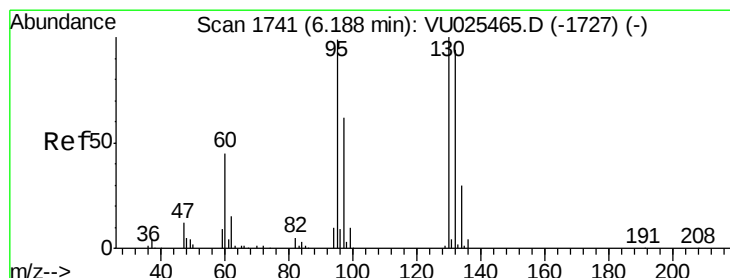
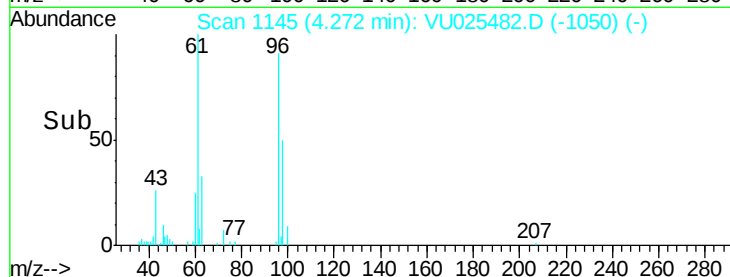
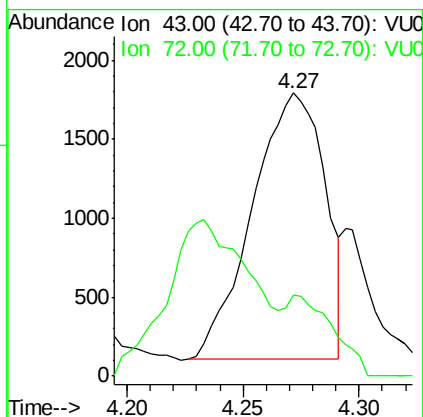
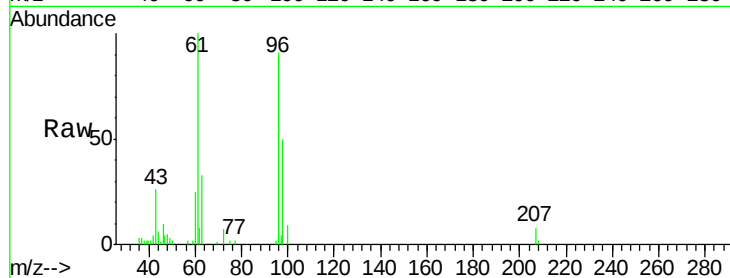
DB189DL

Tgt Ion: 43 Resp: 3669

Ion Ratio Lower Upper

43 100

72 20.0 13.4 40.2



#34

Trichloroethene

Concen: 1.763 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VU025482.D

Acq: 18 Jul 2018 01:35

Tgt Ion: 95 Resp: 4145

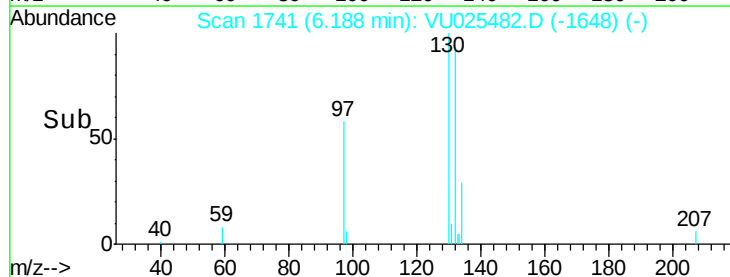
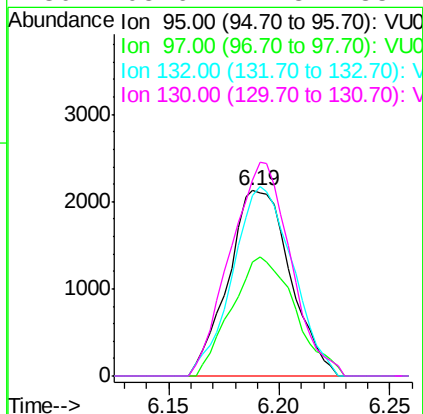
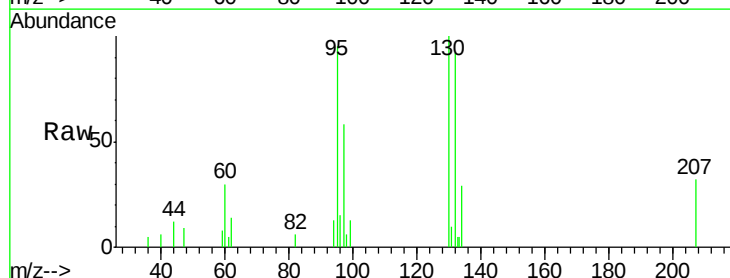
Ion Ratio Lower Upper

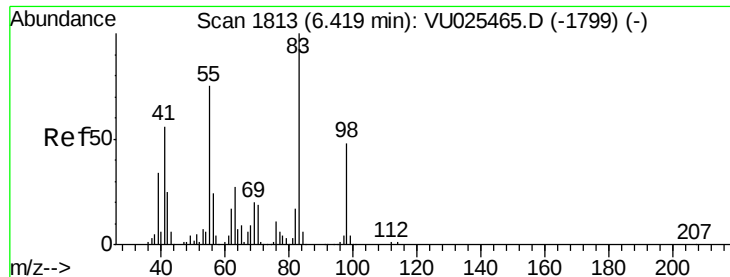
95 100

97 61.6 45.9 85.3

132 102.3 68.2 126.6

130 105.6 71.8 133.4





#35

Methylcyclohexane

Concen: 7.772 ug/L

RT: 6.34 min Scan# 1787

Delta R.T. -0.08 min

Lab File: VU025482.D

Acq: 18 Jul 2018 01:35

Instrument :

MSVOA\_U

ClientSampleId :

DB189DL

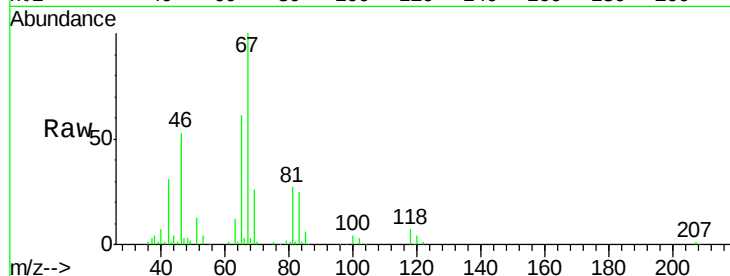
Tgt Ion: 83 Resp: 27750

Ion Ratio Lower Upper

83 100

55 0.0 61.8 92.8#

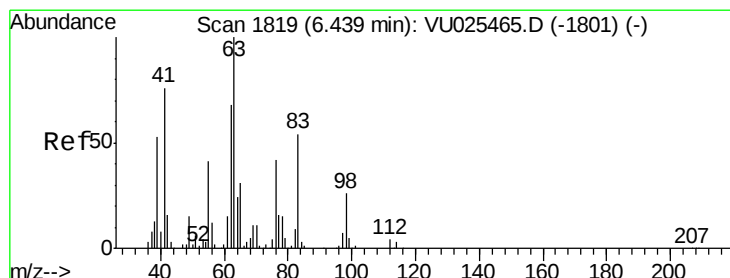
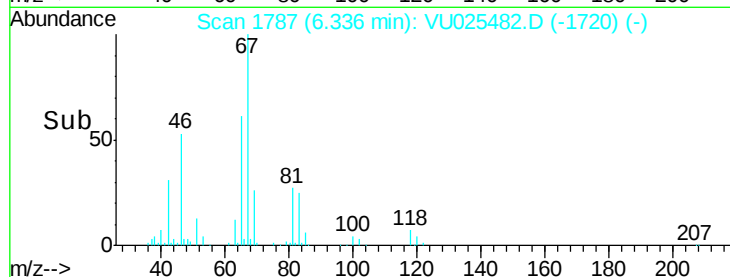
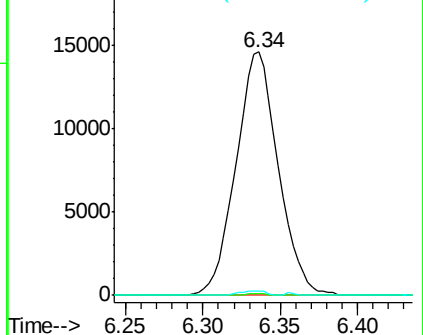
98 1.1 38.7 58.1#



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#37

1,2-Dichloropropane

Concen: 5.430 ug/L

RT: 6.34 min Scan# 1787

Delta R.T. -0.10 min

Lab File: VU025482.D

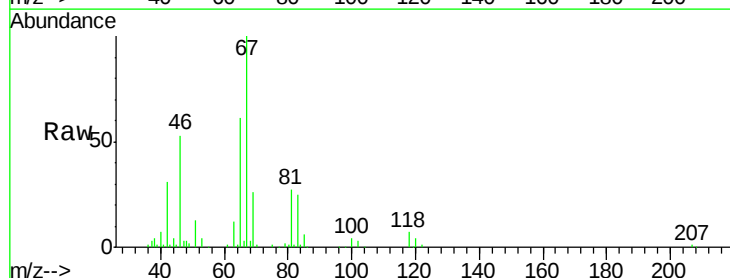
Acq: 18 Jul 2018 01:35

Tgt Ion: 63 Resp: 13306

Ion Ratio Lower Upper

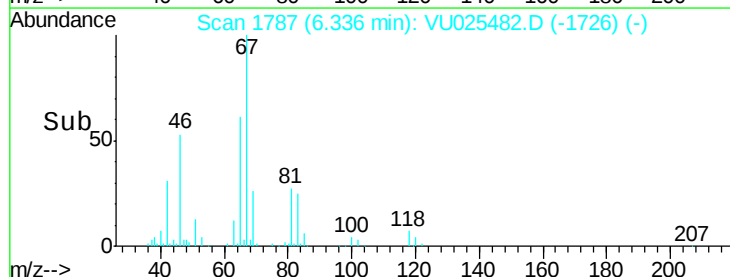
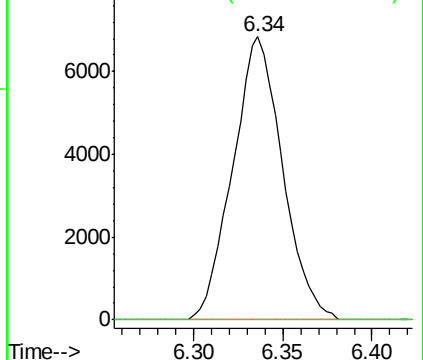
63 100

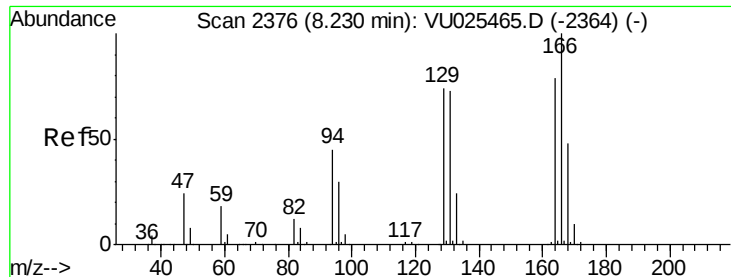
112 0.0 3.2 4.8#



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V





#46

Tetrachloroethene

Concen: 10.254 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU025482.D

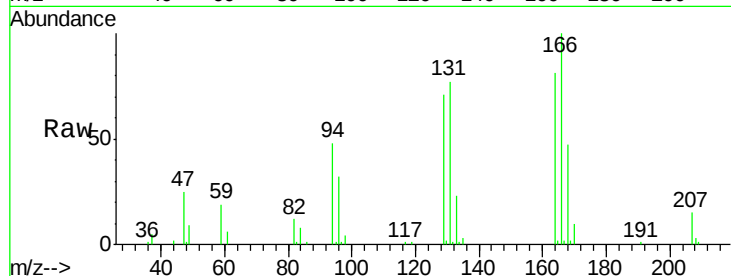
Acq: 18 Jul 2018 01:35

Instrument :

MSVOA\_U

ClientSampleId :

DB189DL



Tgt Ion:164 Resp: 20116

Ion Ratio Lower Upper

164 100

129 87.9 66.5 123.5

131 95.0 63.7 118.3

166 124.0 90.8 168.6

Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

