

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081318\  
 Data File : VU026069.D  
 Acq On : 13 Aug 2018 15:33  
 Operator : MD/SY  
 Sample : J4402-04 10X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZH1

Quant Time: Aug 14 02:12:42 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Tue Aug 14 01:13:22 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 266101   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 249895   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 116625   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 85854    | 44.14    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 88.28% |
| 7) Chloroethane-d5             | 1.68    | 69    | 72060    | 46.73    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 93.46% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 134714   | 36.45    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.90% |
| 21) 2-Butanone-d5              | 4.18    | 46    | 135513   | 83.59    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 83.59% |
| 24) Chloroform-d               | 4.65    | 84    | 191396   | 46.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.80% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 128663   | 46.18    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.36% |
| 32) Benzene-d6                 | 5.35    | 84    | 370113   | 47.70    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 121613   | 48.43    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.86% |
| 41) Toluene-d8                 | 7.57    | 98    | 338088   | 45.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.08% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 56725    | 44.84    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 89.68% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 93296    | 81.81    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 81.81% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 163866   | 44.63    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.26% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 142887   | 49.70    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.40% |

## Target Compounds

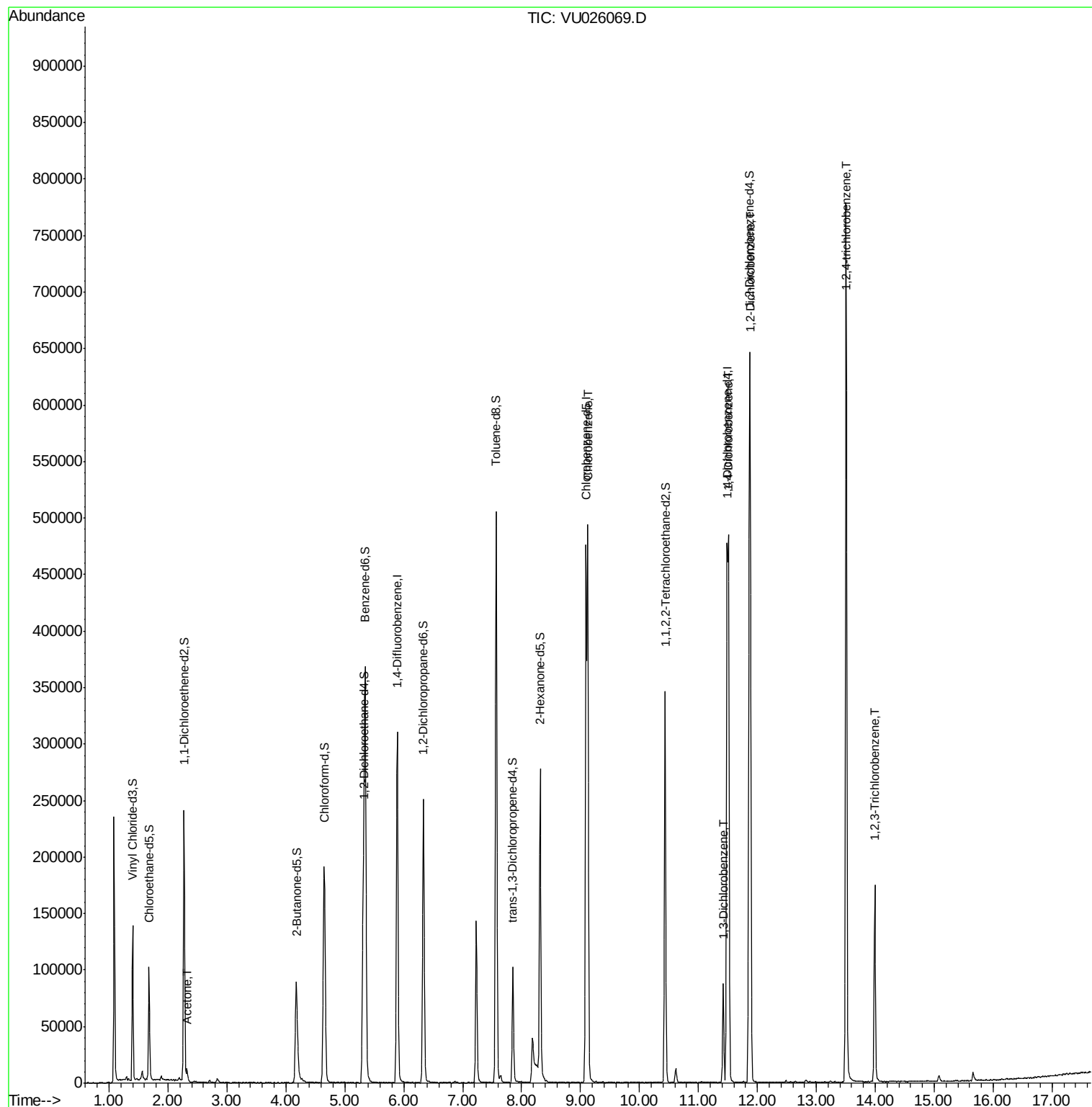
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units | Ovalue |
|----------------------------|-------|------|----------|--------|-------|--------|
| 13) Acetone                | 2.32  | 43   | 9680     | 9.61   | ug/L  | 99     |
| 51) Chlorobenzene          | 9.12  | 112  | 257475   | 50.55  | ug/L  | 99     |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146  | 36375    | 10.02  | ug/L  | 99     |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146  | 180122   | 47.32  | ug/L  | 97     |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146  | 172257   | 44.57  | ug/L  | 98     |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180  | 245851   | 107.14 | ug/L  | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180  | 57042    | 23.13  | ug/L  | 100    |

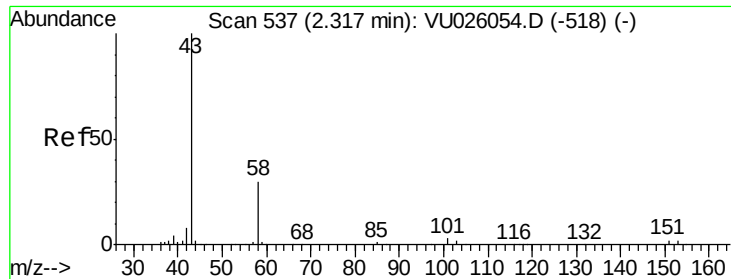
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Tue Aug 14 01:13:22 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 9.61 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU026069.D

Acq: 13 Aug 2018 15:33

Instrument :

MSVOA\_U

ClientSampleId :

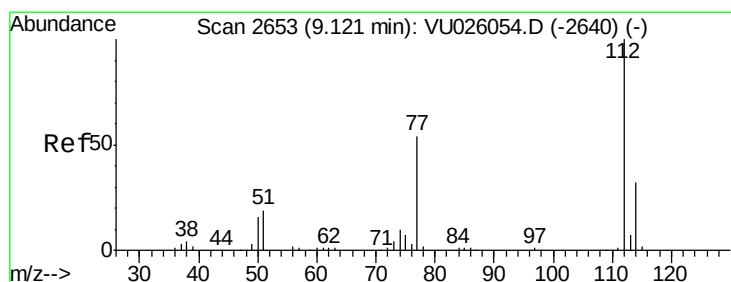
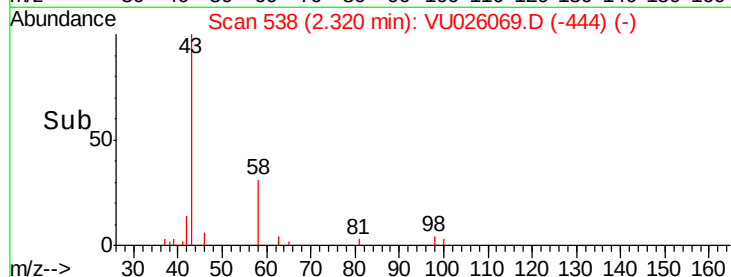
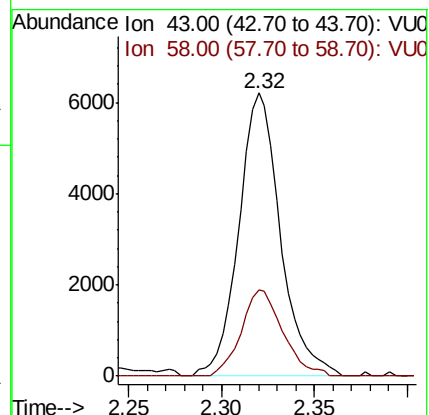
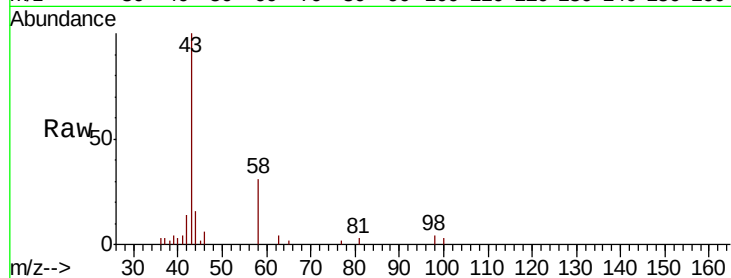
A4ZH1

Tot Ion: 43 Resp: 9680

Ion Ratio Lower Upper

43 100

58 30.3 0.0 61.8



#51

Chlorobenzene

Concen: 50.55 ug/L

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU026069.D

Acq: 13 Aug 2018 15:33

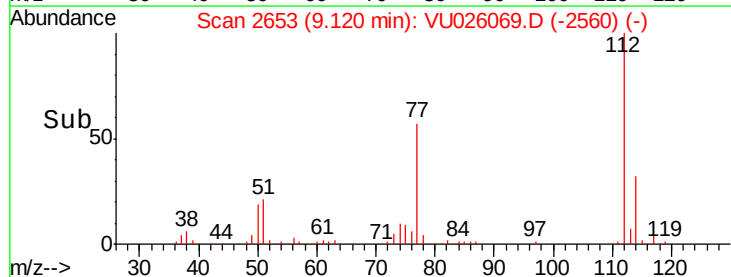
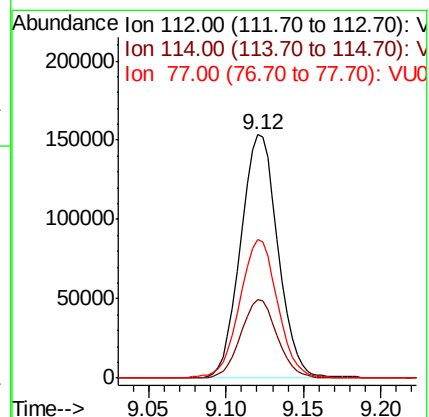
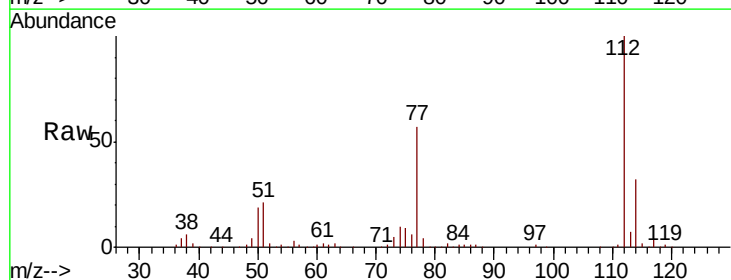
Tgt Ion: 112 Resp: 257475

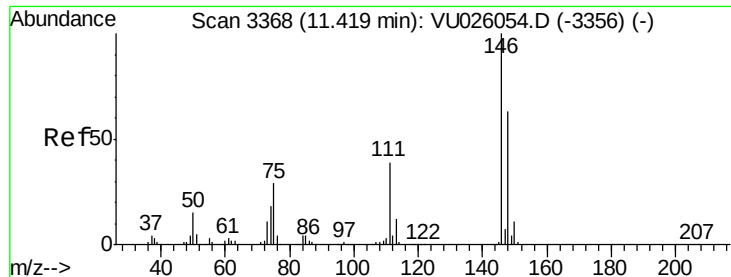
Ion Ratio Lower Upper

112 100

114 32.2 22.7 42.3

77 57.1 45.2 67.8





#62

1,3-Dichlorobenzene

Concen: 10.02 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU026069.D

Acq: 13 Aug 2018 15:33

Instrument :

MSVOA\_U

ClientSampled :

A4ZH1

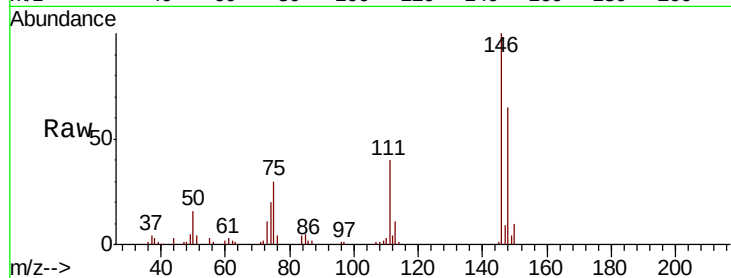
Tot Ion:146 Resp: 36375

Ion Ratio Lower Upper

146 100

111 40.1 27.9 51.9

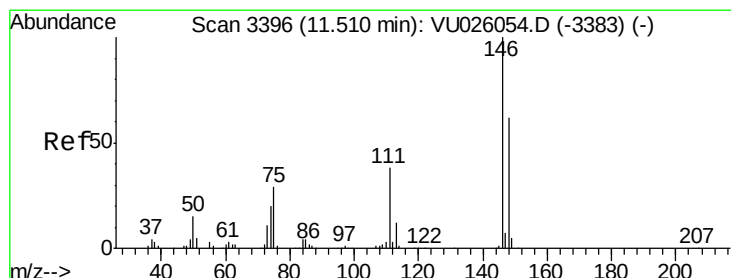
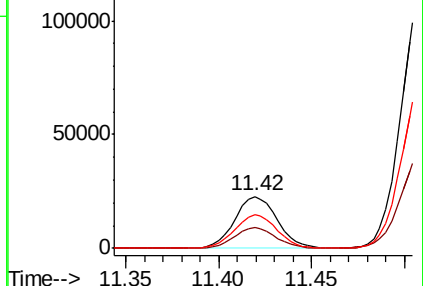
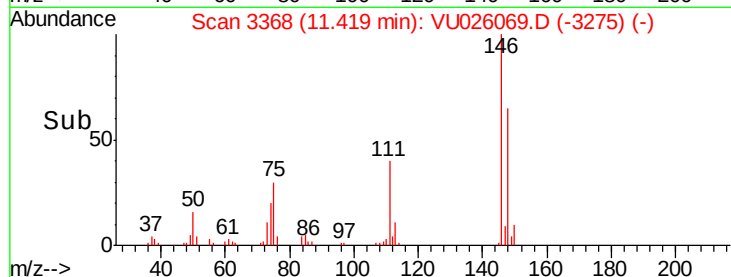
148 65.0 46.0 85.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 47.32 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU026069.D

Acq: 13 Aug 2018 15:33

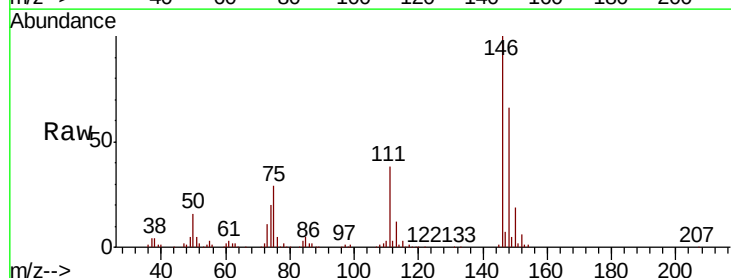
Tgt Ion:146 Resp: 180122

Ion Ratio Lower Upper

146 100

111 37.7 26.4 49.0

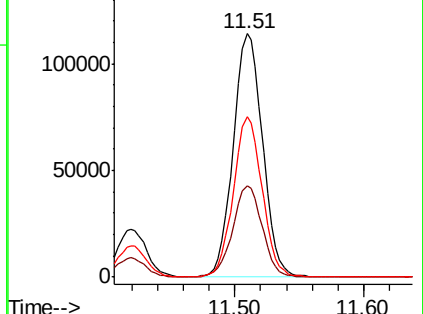
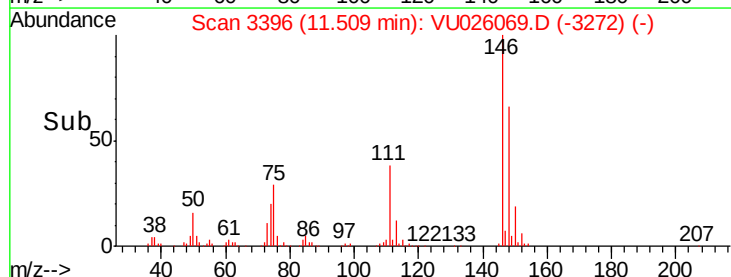
148 65.9 43.8 81.4

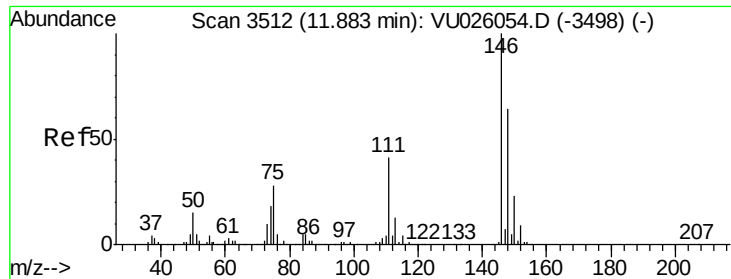


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 44.57 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026069.D

Acq: 13 Aug 2018 15:33

Instrument :

MSVOA\_U

ClientSampled :

A4ZH1

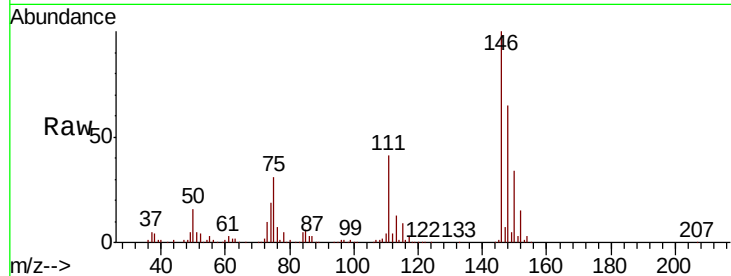
Tot Ion:146 Resp: 172257

Ion Ratio Lower Upper

146 100

111 41.1 32.4 48.6

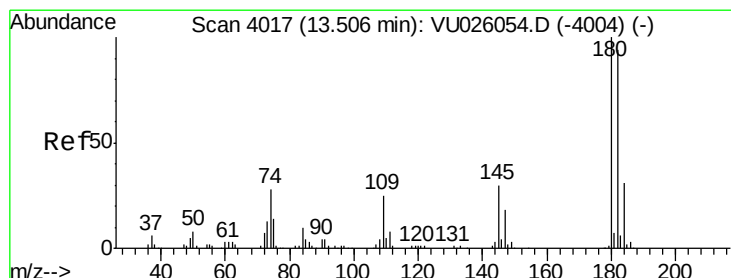
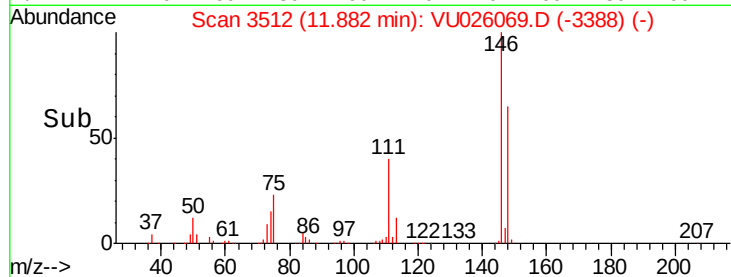
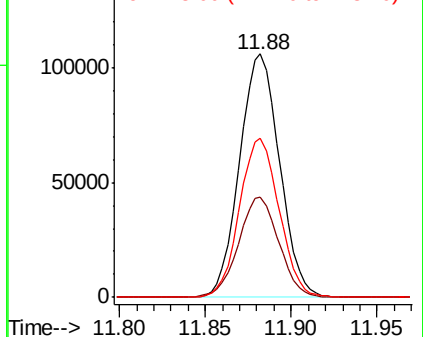
148 65.2 50.1 75.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 107.14 ug/L

RT: 13.51 min Scan# 4017

Delta R.T. -0.00 min

Lab File: VU026069.D

Acq: 13 Aug 2018 15:33

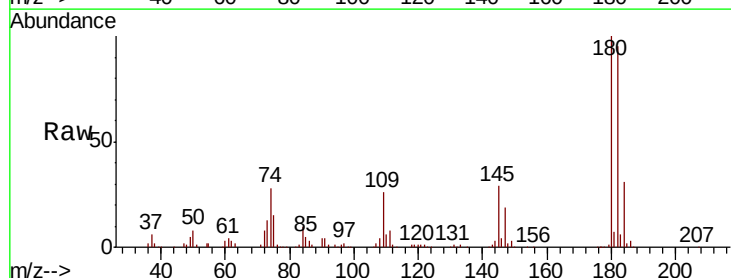
Tgt Ion:180 Resp: 245851

Ion Ratio Lower Upper

180 100

182 95.6 76.5 114.7

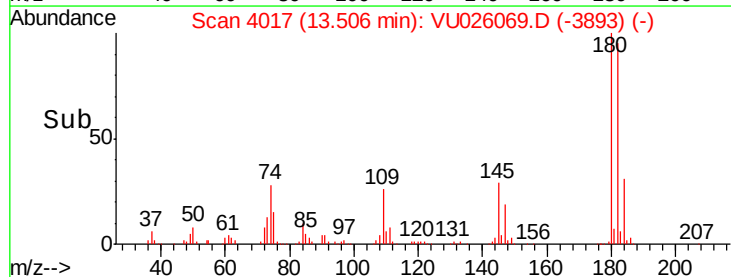
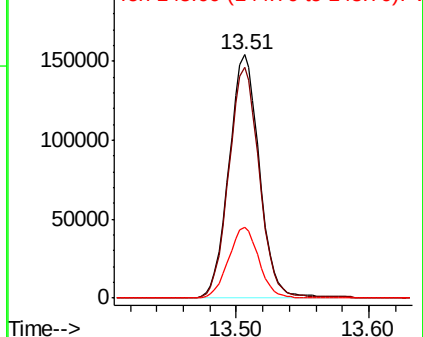
145 29.0 24.2 36.4

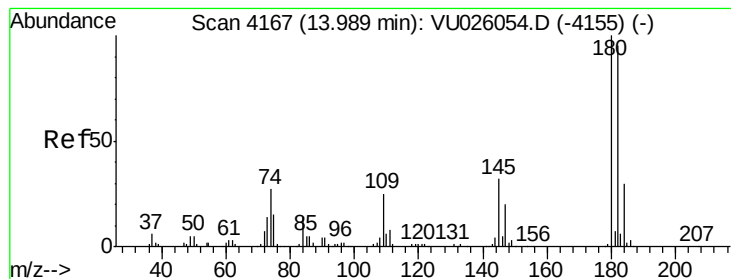


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70

1,2,3-Trichlorobenzene

Concen: 23.13 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU026069.D

Acq: 13 Aug 2018 15:33

Instrument :

MSVOA\_U

ClientSampleId :

A4ZH1

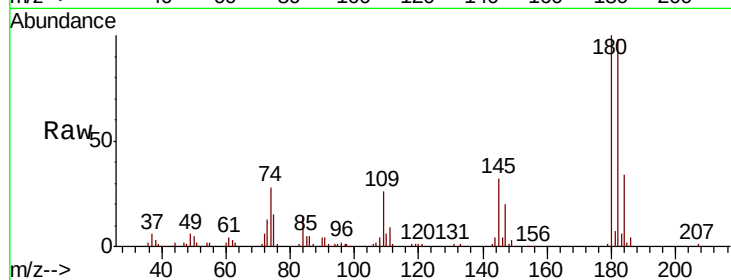
Tot Ion:180 Resp: 57042

Ion Ratio Lower Upper

180 100

182 95.8 76.5 114.7

145 31.1 24.7 37.1



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

