

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080918\  
 Data File : VU026031.D  
 Acq On : 10 Aug 2018 05:44  
 Operator : MD/SY  
 Sample : J4401-19 10X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZG1

Quant Time: Aug 10 08:36:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 10 07:39:13 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 293328   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 270792   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 123117   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 75230    | 35.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 70.18%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 67487    | 39.70    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 114351   | 28.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 56.14%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 148957   | 83.36    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 83.36%  |
| 24) Chloroform-d               | 4.65    | 84    | 188166   | 41.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.78%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 133488   | 43.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 86.92%  |
| 32) Benzene-d6                 | 5.35    | 84    | 358658   | 42.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.30%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 120587   | 44.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 88.64%  |
| 41) Toluene-d8                 | 7.57    | 98    | 320164   | 39.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 79.60%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 53467    | 39.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.00%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 104870   | 84.86    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 84.86%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 171547   | 43.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 86.22%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 132046   | 43.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 87.02%  |

## Target Compounds

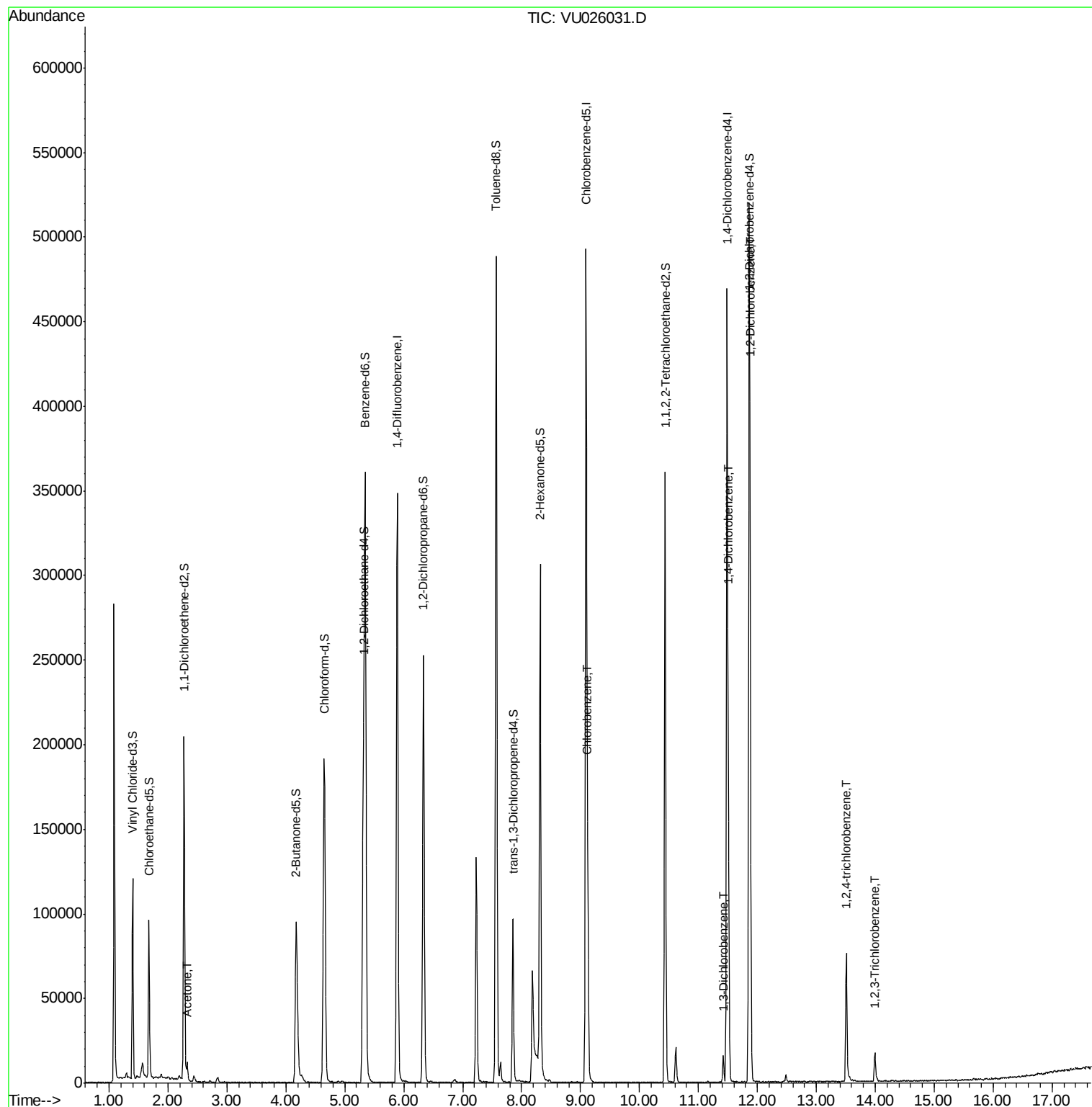
|                            |       |     |       |       | Ovalue   |
|----------------------------|-------|-----|-------|-------|----------|
| 13) Acetone                | 2.32  | 43  | 9982  | 8.99  | ug/L 99  |
| 51) Chlorobenzene          | 9.12  | 112 | 63973 | 11.59 | ug/L 99  |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146 | 6828  | 1.78  | ug/L 96  |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146 | 42708 | 10.63 | ug/L 98  |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 51382 | 12.59 | ug/L 96  |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180 | 25839 | 10.67 | ug/L 100 |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180 | 6962  | 2.67  | ug/L 96  |

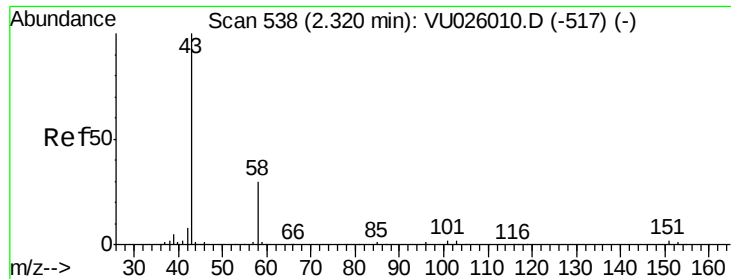
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Aug 10 07:39:13 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 8.99 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU026031.D

Acq: 10 Aug 2018 05:44

Instrument :

MSVOA\_U

ClientSampleId :

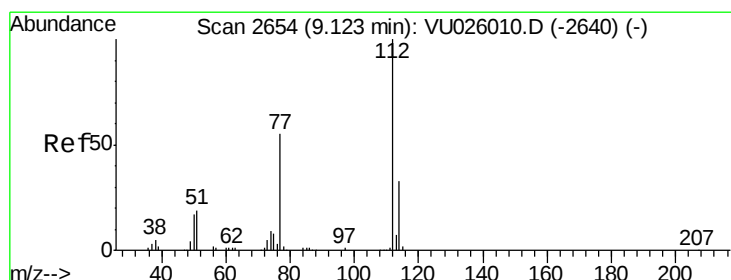
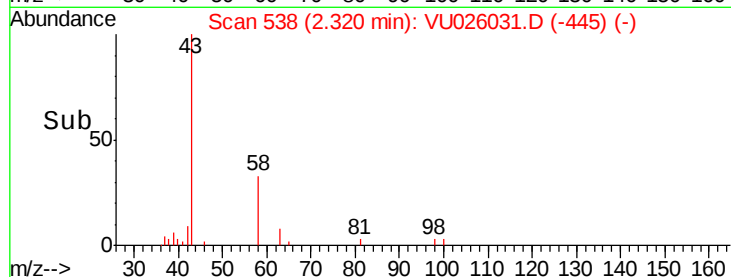
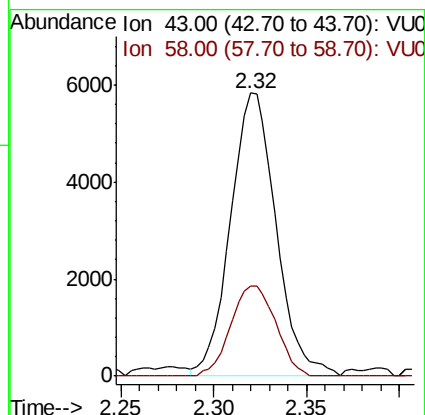
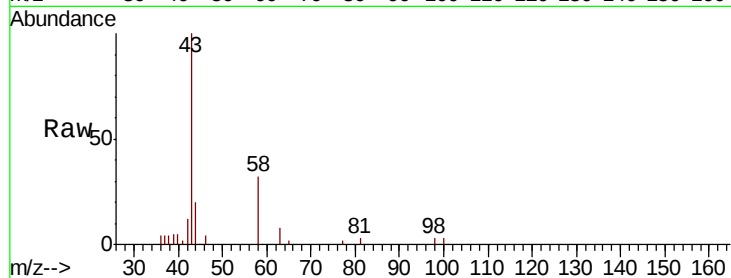
A4ZG1

Tot Ion: 43 Resp: 9982

Ion Ratio Lower Upper

43 100

58 31.4 0.0 61.8



#51

Chlorobenzene

Concen: 11.59 ug/L

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU026031.D

Acq: 10 Aug 2018 05:44

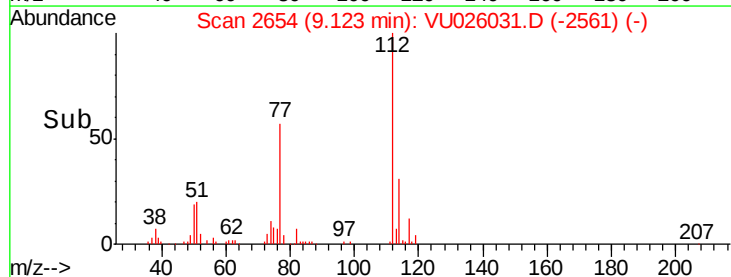
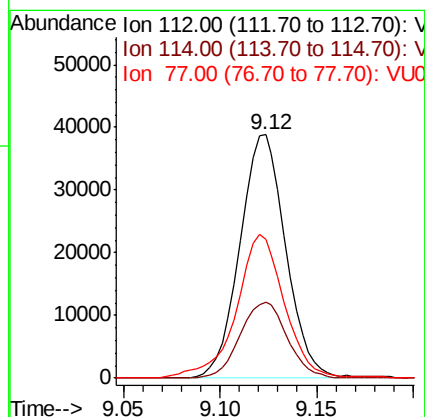
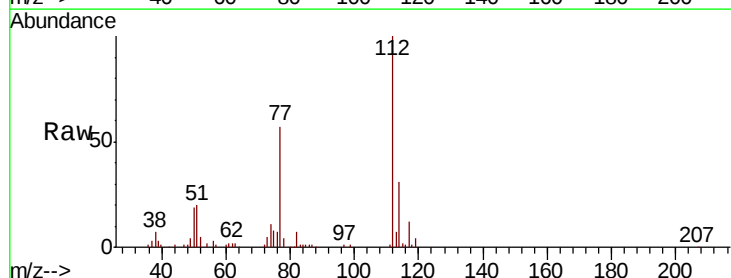
Tgt Ion: 112 Resp: 63973

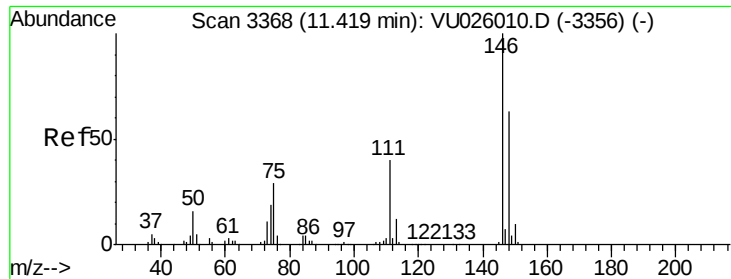
Ion Ratio Lower Upper

112 100

114 31.0 22.7 42.3

77 56.7 45.2 67.8





#62

1,3-Dichlorobenzene

Concen: 1.78 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026031.D

Acq: 10 Aug 2018 05:44

Instrument :

MSVOA\_U

ClientSampleId :

A4ZG1

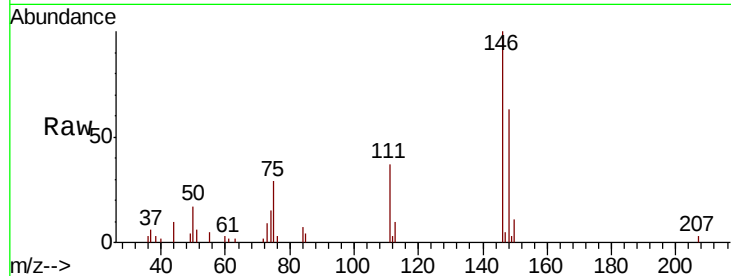
Tot Ion:146 Resp: 6828

Ion Ratio Lower Upper

146 100

111 36.5 27.9 51.9

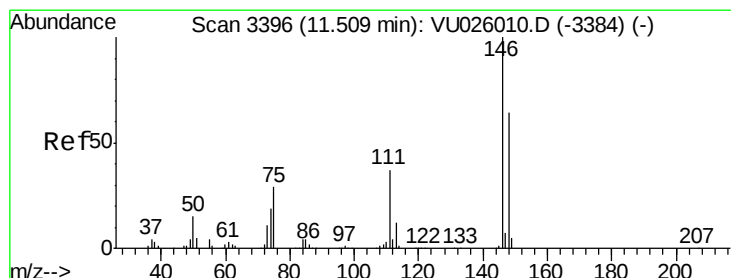
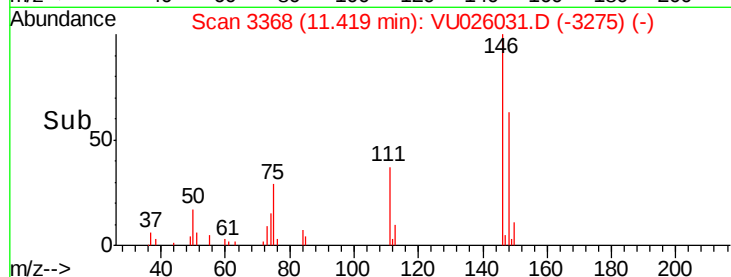
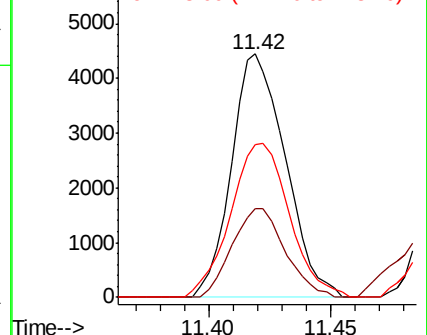
148 62.8 46.0 85.4



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: 10.63 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026031.D

Acq: 10 Aug 2018 05:44

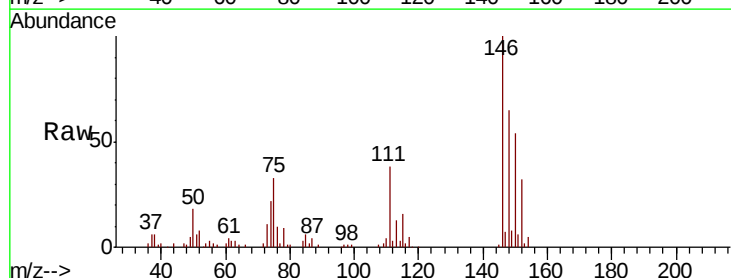
Tgt Ion:146 Resp: 42708

Ion Ratio Lower Upper

146 100

111 38.1 26.4 49.0

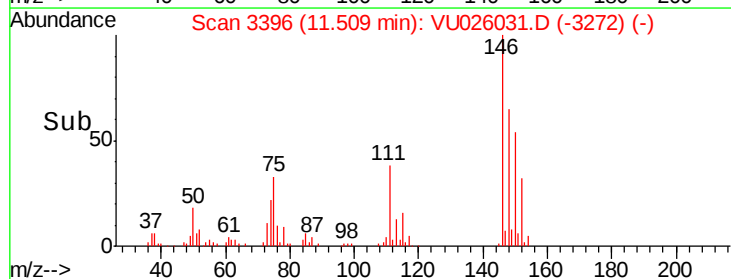
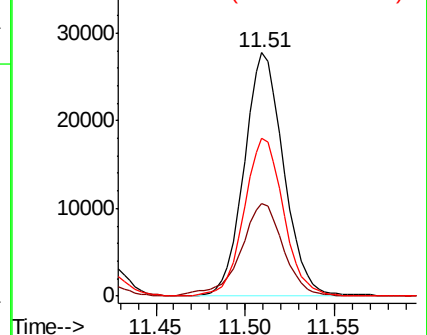
148 64.8 43.8 81.4

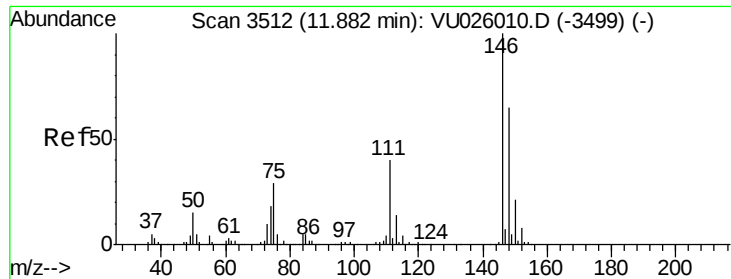


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 12.59 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU026031.D

Acq: 10 Aug 2018 05:44

Instrument :

MSVOA\_U

ClientSampleId :

A4ZG1

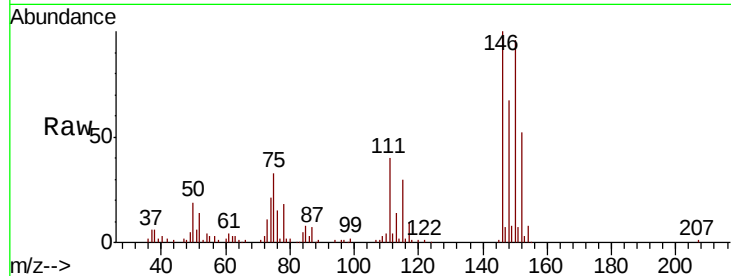
Tot Ion:146 Resp: 51382

Ion Ratio Lower Upper

146 100

111 40.0 32.4 48.6

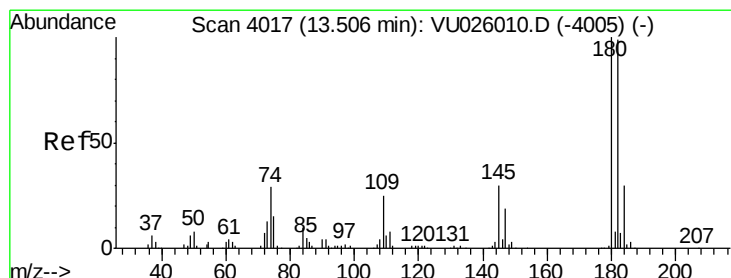
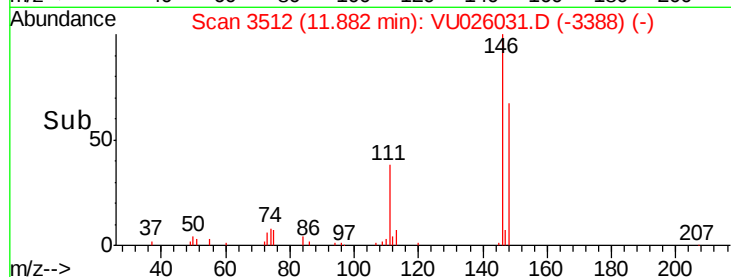
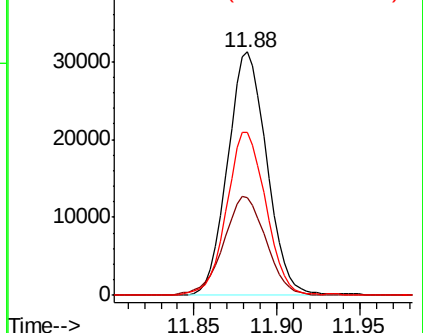
148 66.8 50.1 75.1



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: 10.67 ug/L

RT: 13.51 min Scan# 4017

Delta R.T. 0.00 min

Lab File: VU026031.D

Acq: 10 Aug 2018 05:44

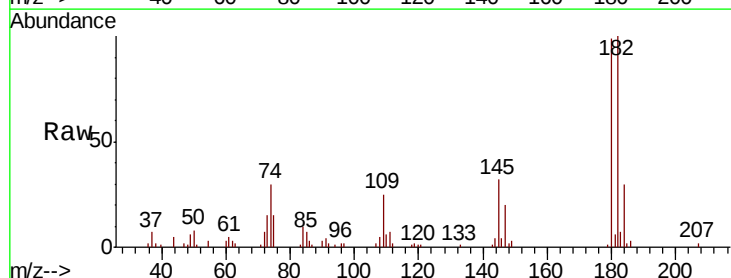
Tgt Ion:180 Resp: 25839

Ion Ratio Lower Upper

180 100

182 95.2 76.5 114.7

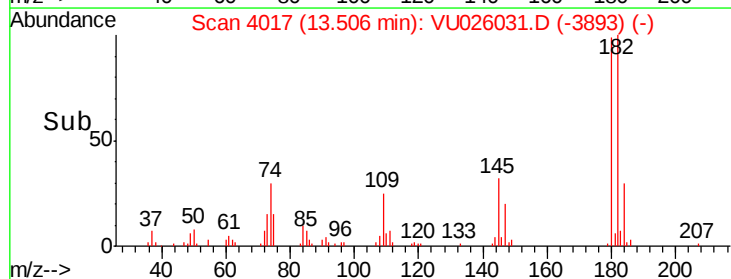
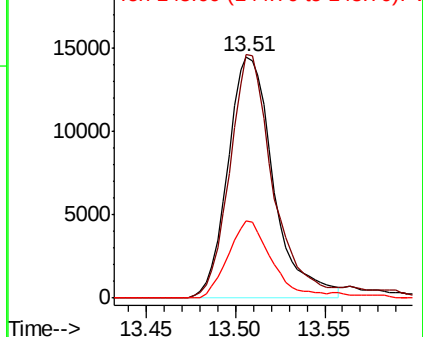
145 30.4 24.2 36.4

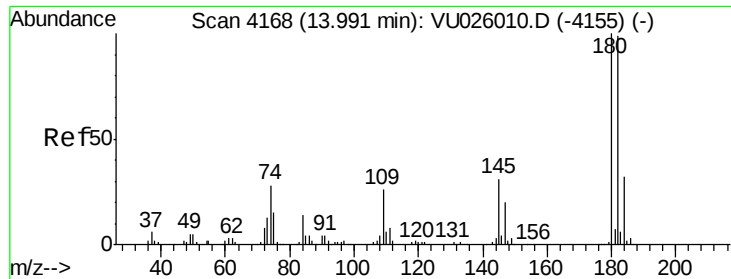


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70  
 1,2,3-Trichlorobenzene  
 Concen: 2.67 ug/L  
 RT: 13.99 min Scan# 4168  
 Delta R.T. 0.00 min  
 Lab File: VU026031.D  
 Acq: 10 Aug 2018 05:44

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZG1

Tot Ion:180 Resp: 6962  
 Ion Ratio Lower Upper  
 180 100  
 182 92.0 76.5 114.7  
 145 29.1 24.7 37.1

