

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022719\  
 Data File : VU029706.D  
 Acq On : 27 Feb 2019 15:44  
 Operator : JC/SP  
 Sample : K1625-14  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 28 01:53:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Feb 28 00:50:18 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 458619   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 445868   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 216637   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 154935   | 46.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 92.20%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 131319   | 43.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.90%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 218234   | 33.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.44%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 228152   | 111.56   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 111.56% |
| 24) Chloroform-d               | 4.64    | 84    | 271236   | 49.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.52%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 171316   | 49.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.28%  |
| 32) Benzene-d6                 | 5.34    | 84    | 600379   | 53.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 107.02% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 179971   | 53.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 106.64% |
| 41) Toluene-d8                 | 7.56    | 98    | 568344   | 49.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.28%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 84538    | 47.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.44%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 189224   | 100.67   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.67% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 270360   | 47.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 231580   | 49.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.20%  |

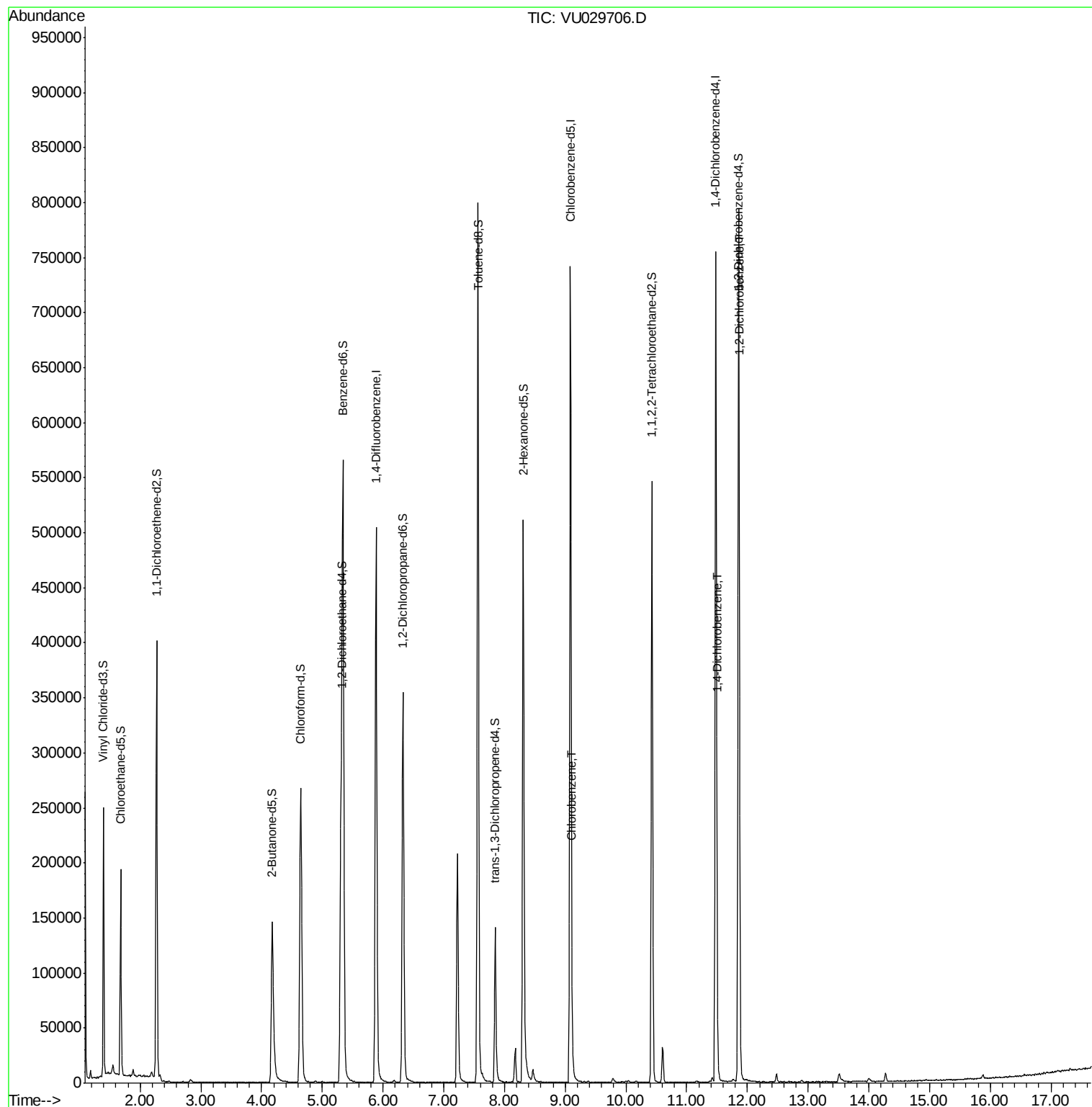
## Target Compounds

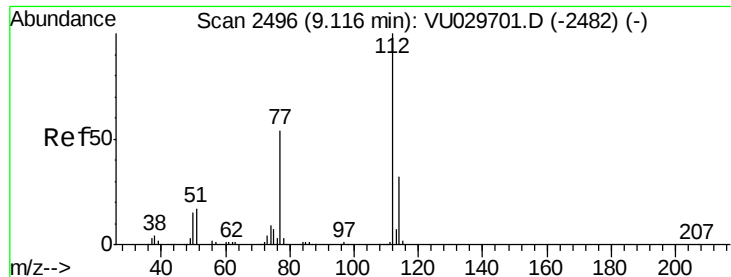
|                         |       |     |       |            | Ovalue |
|-------------------------|-------|-----|-------|------------|--------|
| 51) Chlorobenzene       | 9.12  | 112 | 13448 | 1.449 ug/L | 98     |
| 63) 1,4-Dichlorobenzene | 11.50 | 146 | 14669 | 2.110 ug/L | 90     |
| 65) 1,2-Dichlorobenzene | 11.87 | 146 | 14171 | 1.965 ug/L | 93     |

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

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Response via : Initial Calibration





#51

Chlorobenzene

Concen: 1.449 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU029706.D

Acq: 27 Feb 2019 15:44

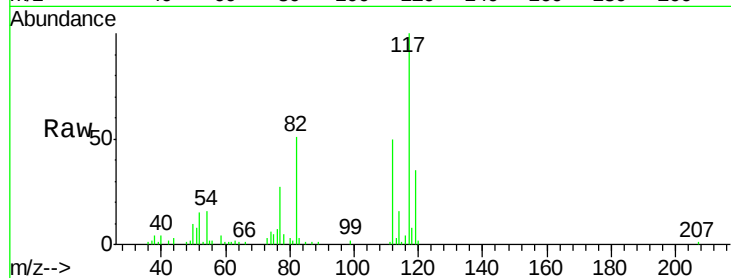
Tot Ion:112 Resp: 13448

Ion Ratio Lower Upper

112 100

114 31.3 22.7 42.1

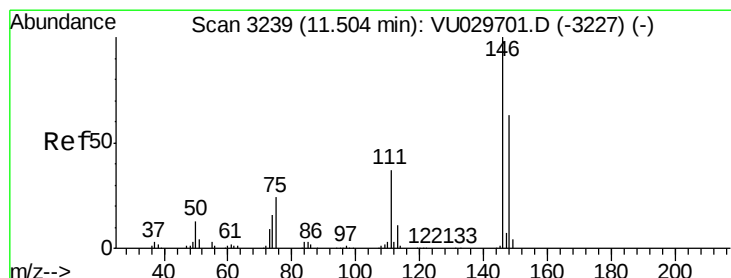
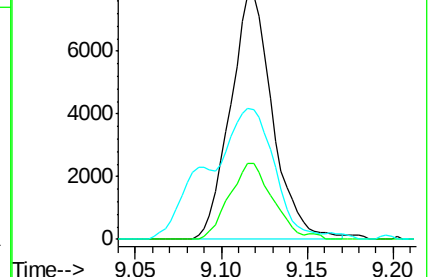
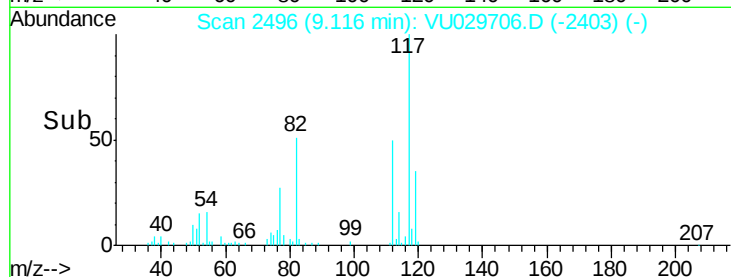
77 53.6 42.1 63.1



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#63

1,4-Dichlorobenzene

Concen: 2.110 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU029706.D

Acq: 27 Feb 2019 15:44

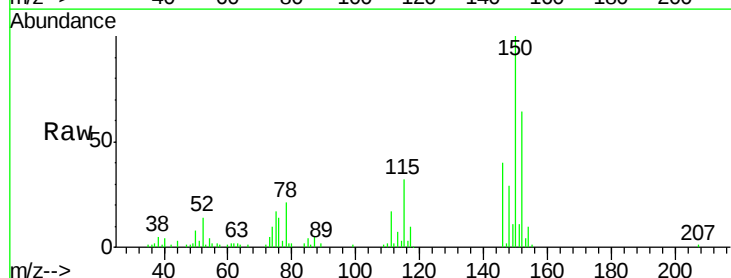
Tgt Ion:146 Resp: 14669

Ion Ratio Lower Upper

146 100

111 42.3 25.1 46.5

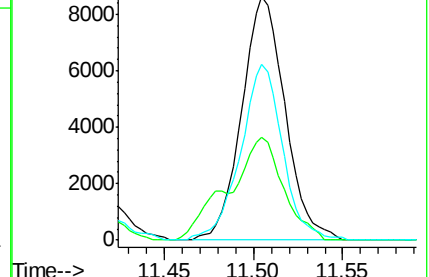
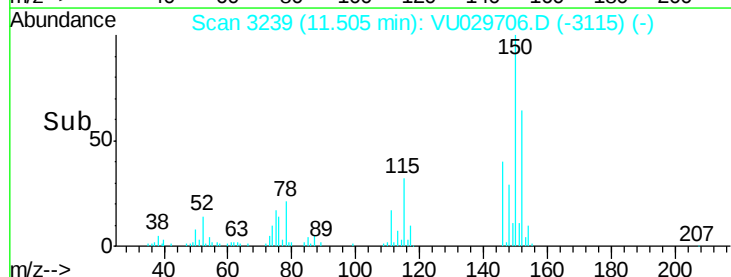
148 72.1 45.0 83.6

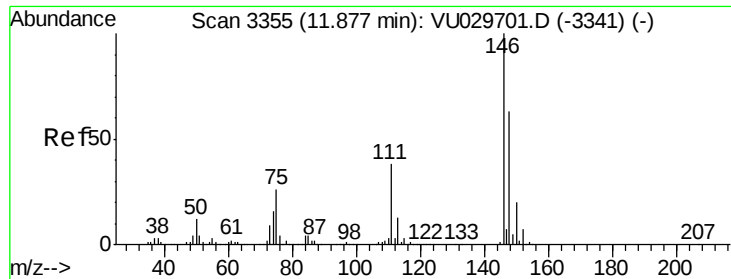


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65  
 1,2-Dichlorobenzene  
 Concen: 1.965 ug/L  
 RT: 11.87 min Scan# 3354  
 Delta R.T. -0.00 min  
 Lab File: VU029706.D  
 Acq: 27 Feb 2019 15:44

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.7  | 31.2  | 46.8  |
| 148     | 62.1  | 51.6  | 77.4  |

