

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032619\  
 Data File : VU030457.D  
 Acq On : 26 Mar 2019 20:40  
 Operator : JC/SP  
 Sample : K2022-19 50X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C09F4

Quant Time: Mar 27 07:35:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 27 06:00:22 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 439611   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 413991   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 161805   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 168031   | 47.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 94.98%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 141274   | 50.38    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.76% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 242405   | 36.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 72.24%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 358367   | 107.75   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 107.75% |
| 24) Chloroform-d               | 4.64    | 84    | 298452   | 48.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.92%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 206767   | 51.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.68% |
| 32) Benzene-d6                 | 5.34    | 84    | 610082   | 51.39    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.78% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 221771   | 54.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 109.20% |
| 41) Toluene-d8                 | 7.56    | 98    | 519471   | 48.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.44%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 90426    | 47.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.68%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 226184   | 102.76   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 102.76% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 302942   | 52.12    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 104.24% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 174178   | 53.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 107.44% |

## Target Compounds

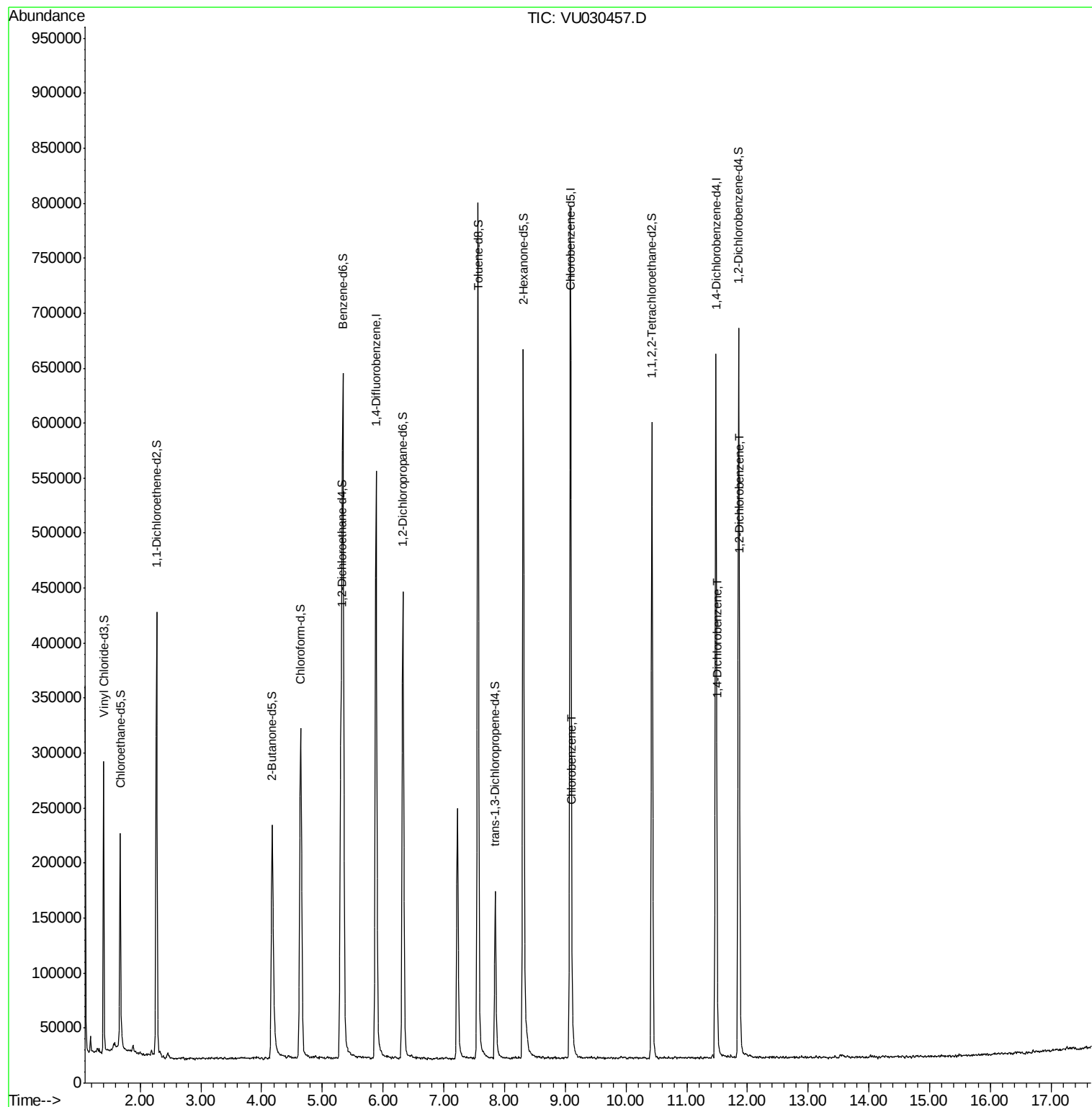
|                         |       |     |       |            | Ovalue |
|-------------------------|-------|-----|-------|------------|--------|
| 51) Chlorobenzene       | 9.12  | 112 | 13808 | 1.558 ug/L | 98     |
| 63) 1,4-Dichlorobenzene | 11.50 | 146 | 7184  | 1.319 ug/L | 98     |
| 65) 1,2-Dichlorobenzene | 11.88 | 146 | 12596 | 2.354 ug/L | 91     |

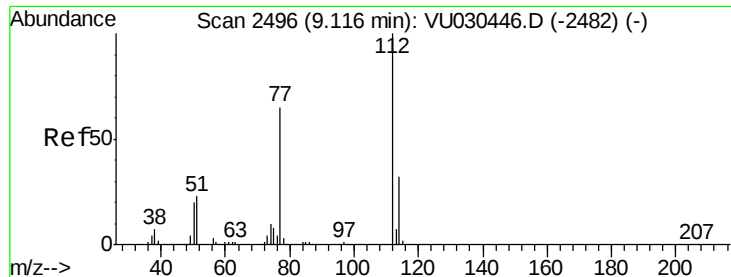
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 27 06:00:22 2019  
Response via : Initial Calibration





#51

Chlorobenzene

Concen: 1.558 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU030457.D

Acq: 26 Mar 2019 20:40

Instrument :

MSVOA\_U

ClientSampleId :

C09F4

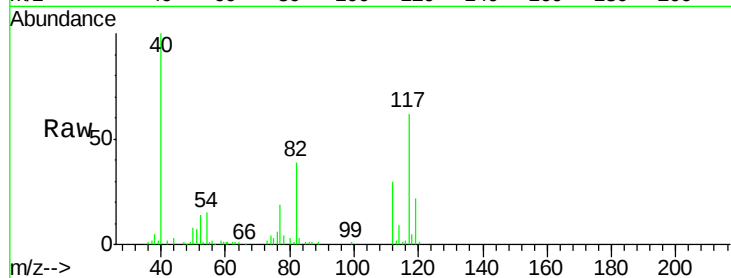
Tot Ion:112 Resp: 13808

Ion Ratio Lower Upper

112 100

114 30.9 21.5 39.9

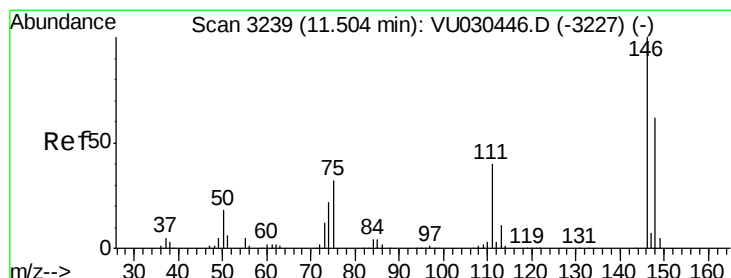
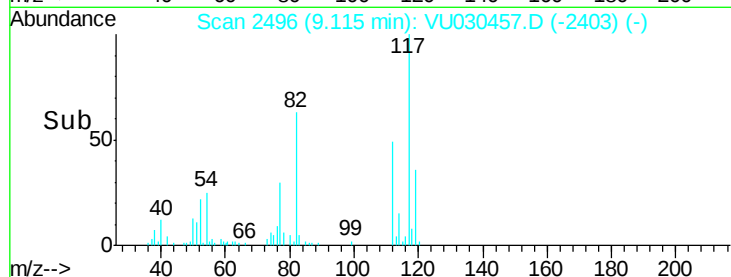
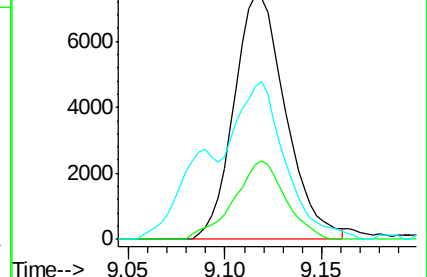
77 62.5 51.4 77.0



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: 1.319 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030457.D

Acq: 26 Mar 2019 20:40

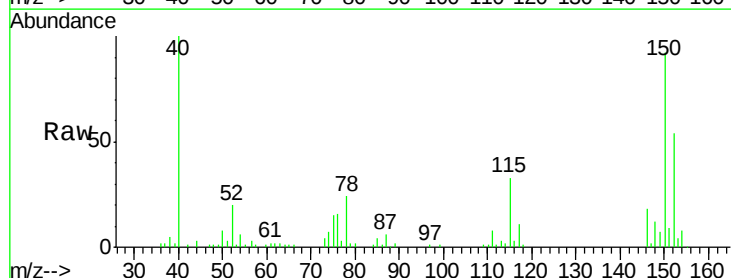
Tgt Ion:146 Resp: 7184

Ion Ratio Lower Upper

146 100

111 41.9 28.7 53.3

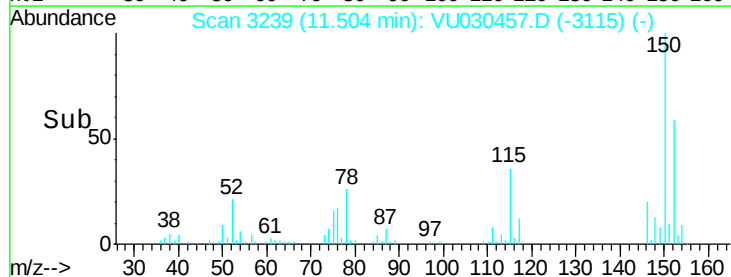
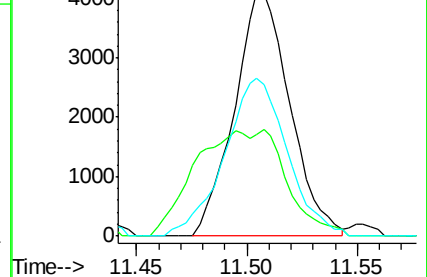
148 64.9 44.3 82.3

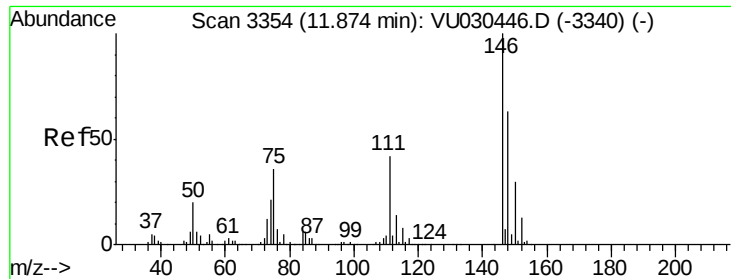


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

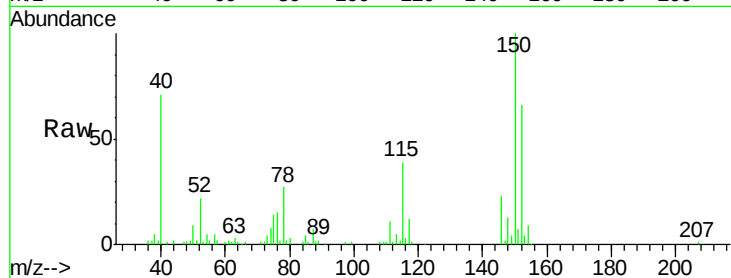




#65  
 1,2-Dichlorobenzene  
 Concen: 2.354 ug/L  
 RT: 11.88 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VU030457.D  
 Acq: 26 Mar 2019 20:40

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 C09F4

Tot Ion:146 Resp: 12596  
 Ion Ratio Lower Upper  
 146 100  
 111 48.8 34.9 52.3  
 148 57.1 51.2 76.8



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

