

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU031519\  
 Data File : VU030075.D  
 Acq On : 14 Mar 2019 15:41  
 Operator : JC/SP  
 Sample : K1859-05 100X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0BR0

Quant Time: Mar 15 02:42:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031319WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 15 01:21:27 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 511815   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 509494   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 261823   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 164473   | 48.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 97.16% |
| 7) Chloroethane-d5             | 1.68    | 69    | 131607   | 48.16    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.32% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 218231   | 35.71    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.42% |
| 21) 2-Butanone-d5              | 4.17    | 46    | 219605   | 86.58    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 86.58% |
| 24) Chloroform-d               | 4.64    | 84    | 280279   | 46.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.30% |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 168262   | 47.96    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.92% |
| 32) Benzene-d6                 | 5.34    | 84    | 611218   | 46.60    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.20% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 187928   | 46.82    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 93.64% |
| 41) Toluene-d8                 | 7.56    | 98    | 556061   | 45.28    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.56% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 86106    | 44.29    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 88.58% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 187938   | 83.68    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 83.68% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 263319   | 42.69    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.38% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 237204   | 46.77    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 93.54% |

## Target Compounds

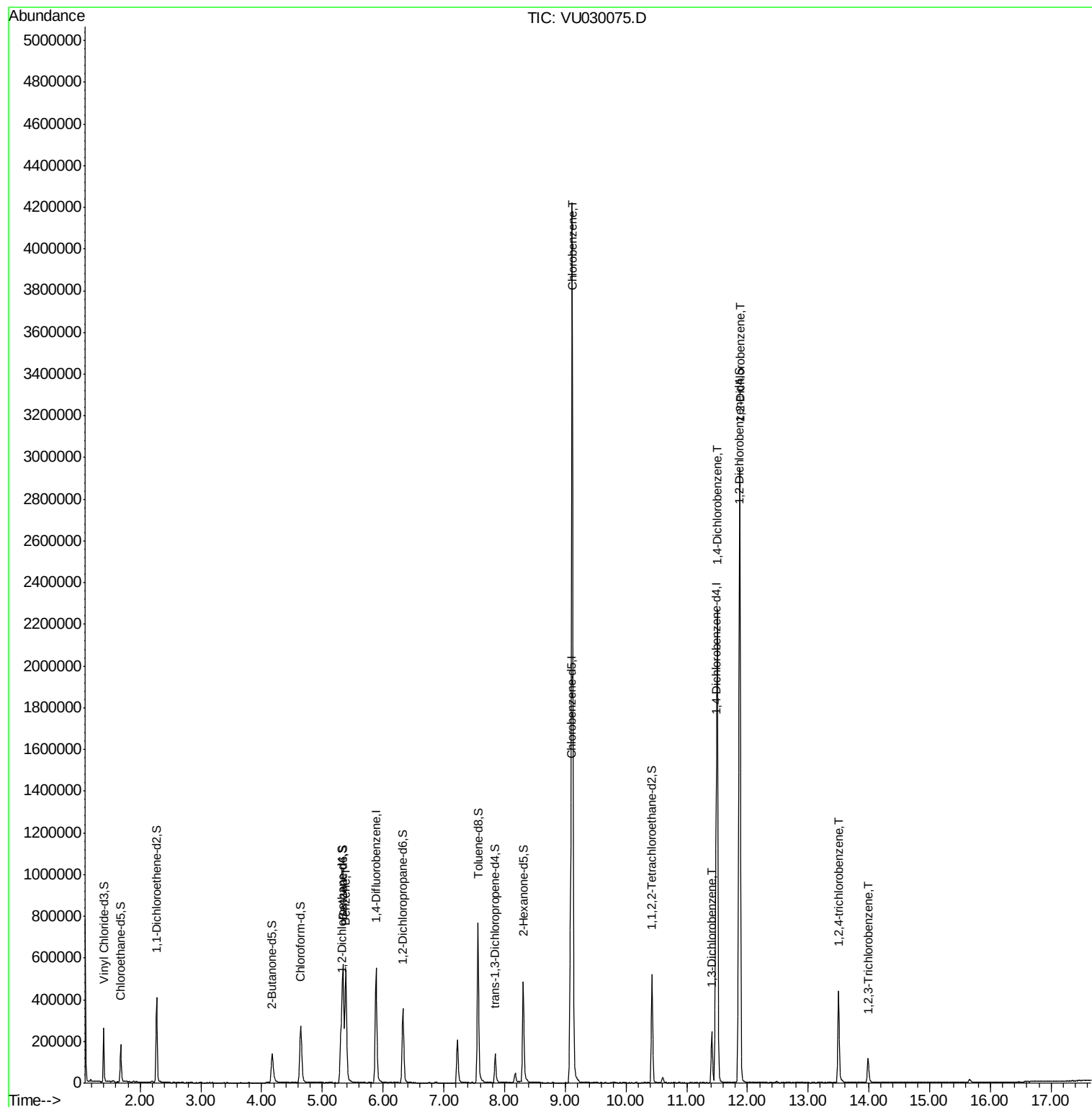
|                            |       |     |         |              | Qvalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 33) Benzene                | 5.39  | 78  | 570344  | 39.120 ug/L  | 100    |
| 51) Chlorobenzene          | 9.12  | 112 | 2460560 | 230.244 ug/L | 99     |
| 62) 1,3-Dichlorobenzene    | 11.41 | 146 | 109536  | 12.954 ug/L  | 99     |
| 63) 1,4-Dichlorobenzene    | 11.50 | 146 | 959486  | 111.597 ug/L | 99     |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 1235612 | 145.177 ug/L | 100    |
| 68) 1,2,4-trichlorobenzene | 13.50 | 180 | 160909  | 26.804 ug/L  | 99     |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180 | 44633   | 7.157 ug/L   | 98     |

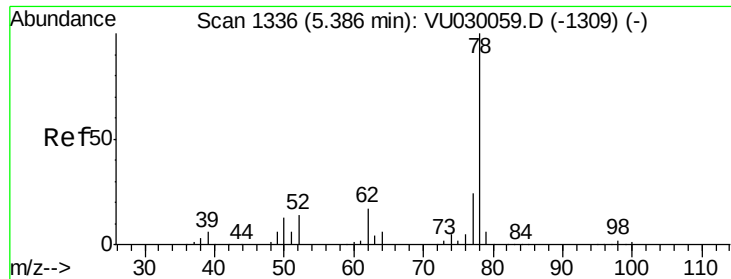
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#33

Benzene

Concen: 39.120 ug/L

RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VU030075.D

Acq: 14 Mar 2019 15:41

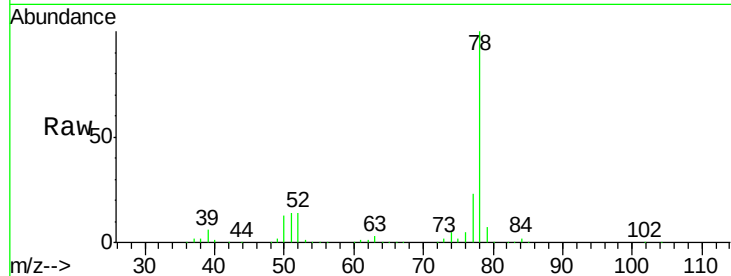
Instrument :

MSVOA\_U

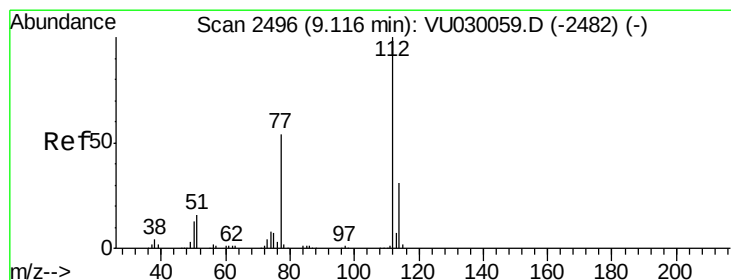
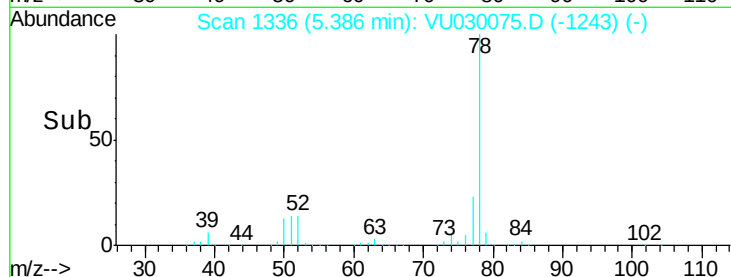
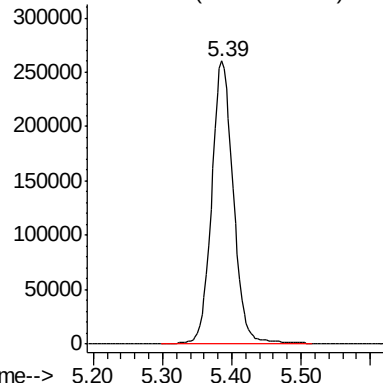
ClientSampleId :

C0BR0

Tgt Ion: 78 Resp: 570344



Abundance Ion 78.00 (77.70 to 78.70): VU0



#51

Chlorobenzene

Concen: 230.244 ug/L

RT: 9.12 min Scan# 2496

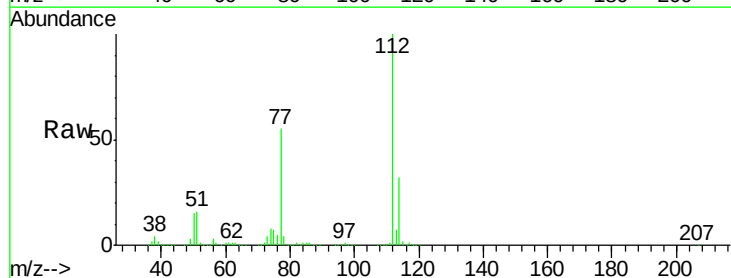
Delta R.T. -0.00 min

Lab File: VU030075.D

Acq: 14 Mar 2019 15:41

Tgt Ion: 112 Resp: 2460560

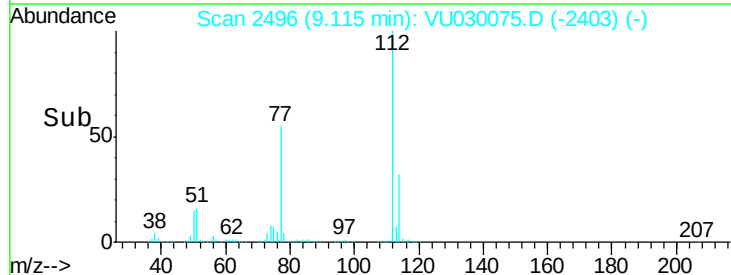
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 114 | 32.1  | 22.5  | 41.9  |
| 77  | 54.7  | 44.6  | 66.8  |



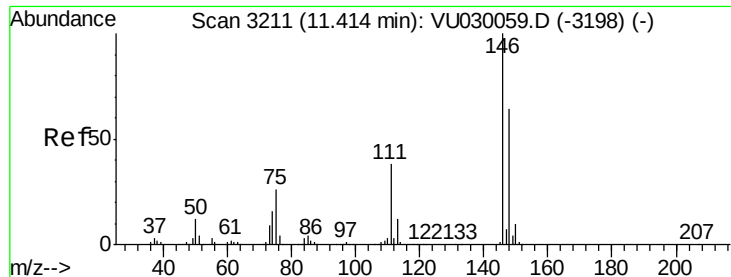
Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0



Time-->



#62

1,3-Dichlorobenzene

Concen: 12.954 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030075.D

Acq: 14 Mar 2019 15:41

Instrument :

MSVOA\_U

ClientSampleId :

C0BR0

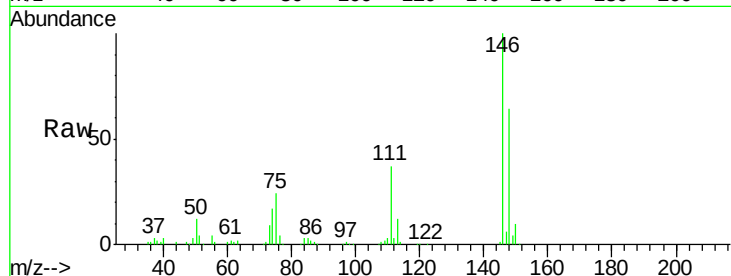
Tgt Ion:146 Resp: 109536

Ion Ratio Lower Upper

146 100

111 37.1 26.7 49.5

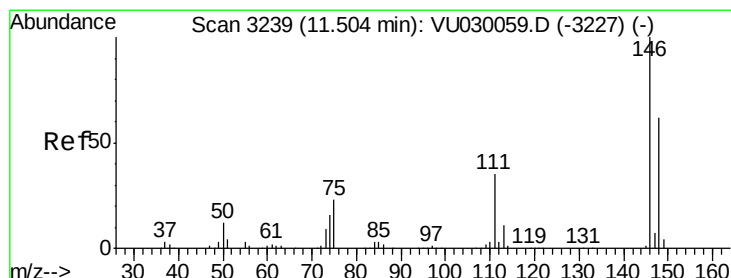
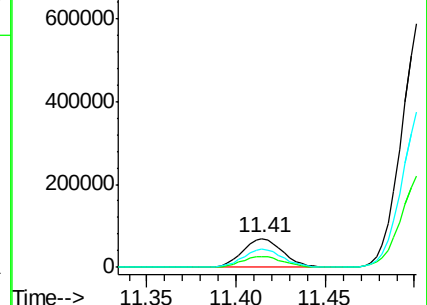
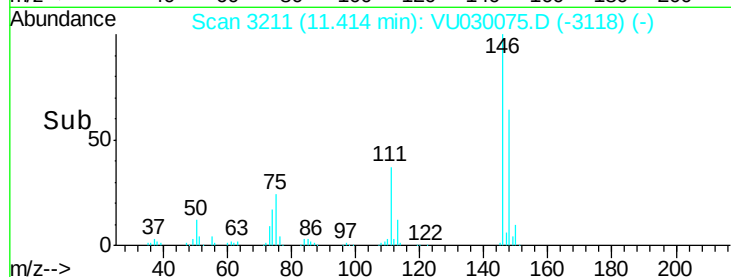
148 64.3 44.9 83.5



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: 111.597 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030075.D

Acq: 14 Mar 2019 15:41

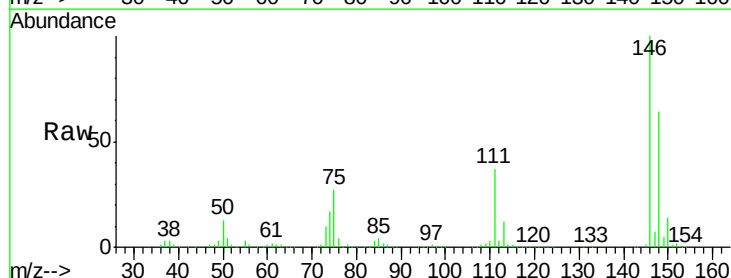
Tgt Ion:146 Resp: 959486

Ion Ratio Lower Upper

146 100

111 37.2 25.5 47.3

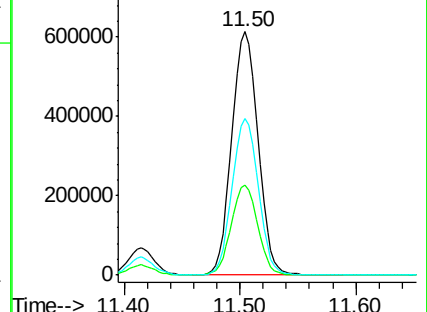
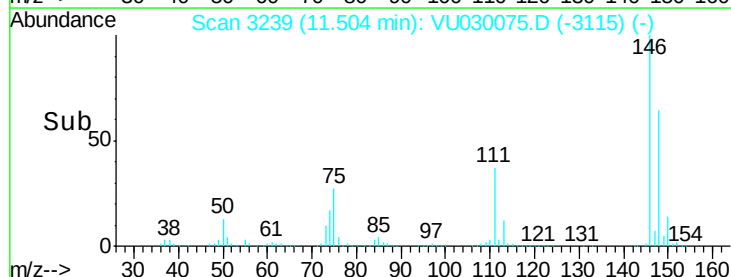
148 64.5 45.0 83.6

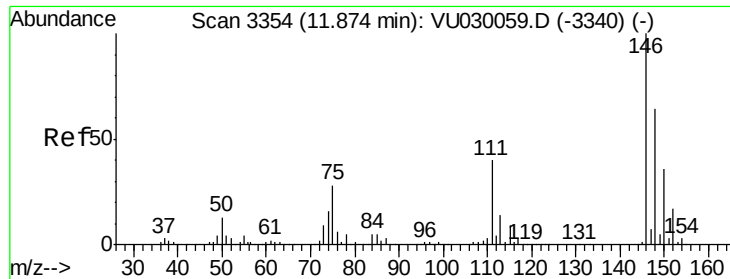


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

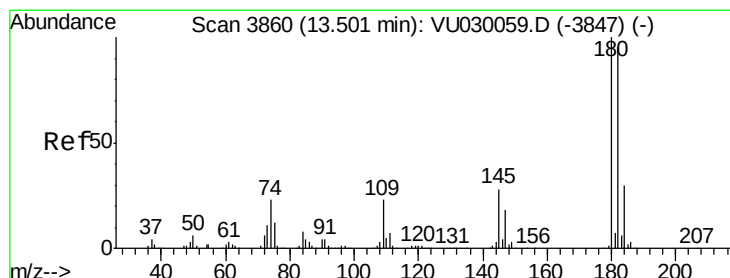
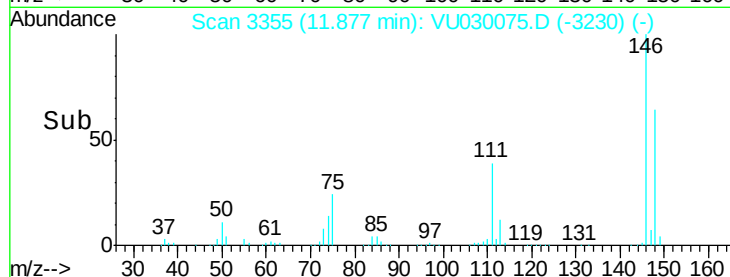
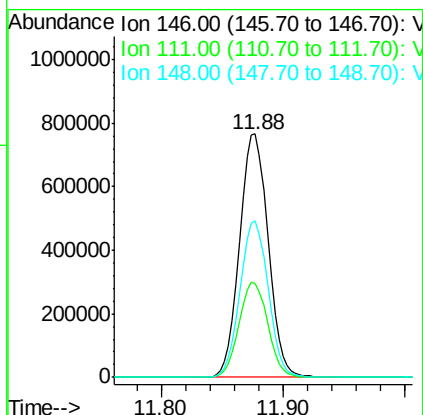
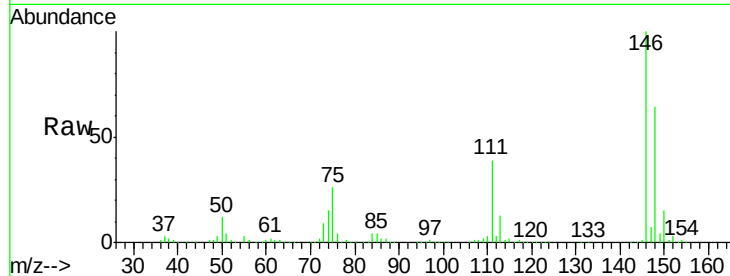




#65  
 1,2-Dichlorobenzene  
 Concen: 145.177 ug/L  
 RT: 11.88 min Scan# 3355  
 Delta R.T. 0.00 min  
 Lab File: VU030075.D  
 Acq: 14 Mar 2019 15:41

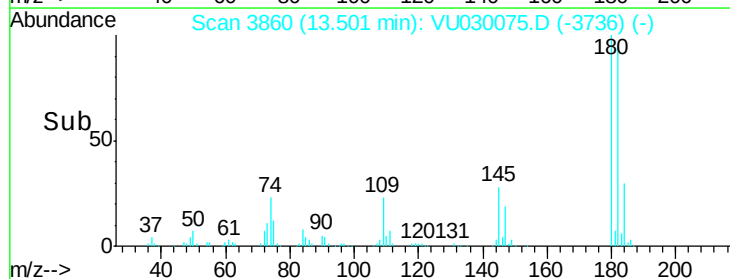
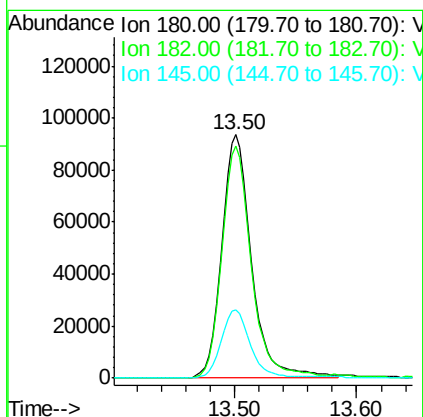
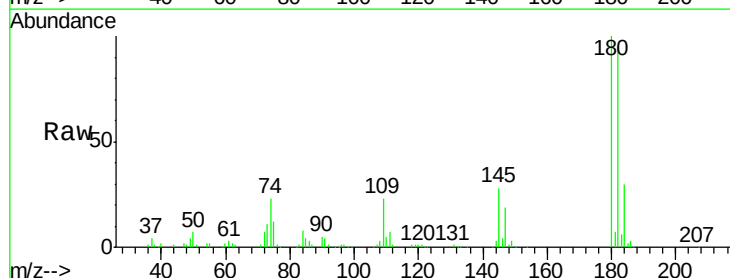
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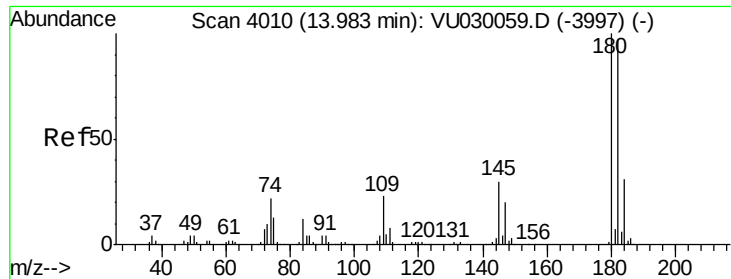
Tgt Ion:146 Resp: 1235612  
 Ion Ratio Lower Upper  
 146 100  
 111 38.8 30.9 46.3  
 148 64.2 51.2 76.8



#68  
 1,2,4-trichlorobenzene  
 Concen: 26.804 ug/L  
 RT: 13.50 min Scan# 3860  
 Delta R.T. -0.00 min  
 Lab File: VU030075.D  
 Acq: 14 Mar 2019 15:41

Tgt Ion:180 Resp: 160909  
 Ion Ratio Lower Upper  
 180 100  
 182 94.3 76.1 114.1  
 145 27.3 23.0 34.4





#70  
 1,2,3-Trichlorobenzene  
 Concen: 7.157 ug/L  
 RT: 13.99 min Scan# 4011  
 Delta R.T. 0.00 min  
 Lab File: VU030075.D  
 Acq: 14 Mar 2019 15:41

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0BR0

Tgt Ion:180 Resp: 44633  
 Ion Ratio Lower Upper  
 180 100  
 182 97.4 75.9 113.9  
 145 29.9 24.0 36.0

