

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV041819\  
 Data File : VV010356.D  
 Acq On : 18 Apr 2019 18:43  
 Operator : SY/MD  
 Sample : K2470-06MSD  
 Misc : 4.30G/10mL/MSVOA\_V/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 A5135MSD

Quant Time: Apr 19 06:12:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041819S.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Apr 19 06:08:59 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 302719   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 301928   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 155327   | 25.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 64622    | 16.81    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 67.24%  |
| 7) Chloroethane-d5             | 1.57   | 69    | 64191    | 19.88    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 79.52%  |
| 10) 1,1-Dichloroethene-d2      | 2.13   | 63    | 181531   | 19.57    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 78.28%  |
| 20) 2-Butanone-d5              | 3.93   | 46    | 65074    | 54.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 108.72% |
| 24) Chloroform-d               | 4.40   | 84    | 172920   | 21.73    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 86.92%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 109047   | 23.21    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 92.84%  |
| 29) Benzene-d6                 | 5.10   | 84    | 318443   | 20.60    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 82.40%  |
| 33) 1,2-Dichloropropane-d6     | 6.12   | 67    | 99373    | 21.97    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 87.88%  |
| 37) Toluene-d8                 | 7.36   | 98    | 299018   | 20.13    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 80.52%  |
| 38) trans-1,3-Dichloropropene- | 7.66   | 79    | 45424    | 20.42    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 81.68%  |
| 39) 2-Hexanone-d5              | 8.13   | 63    | 53307    | 52.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 105.86% |
| 48) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 113973   | 25.19    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 100.76% |
| 61) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 136508   | 22.35    | ug/L | 0.00    |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 89.40%  |

## Target Compounds

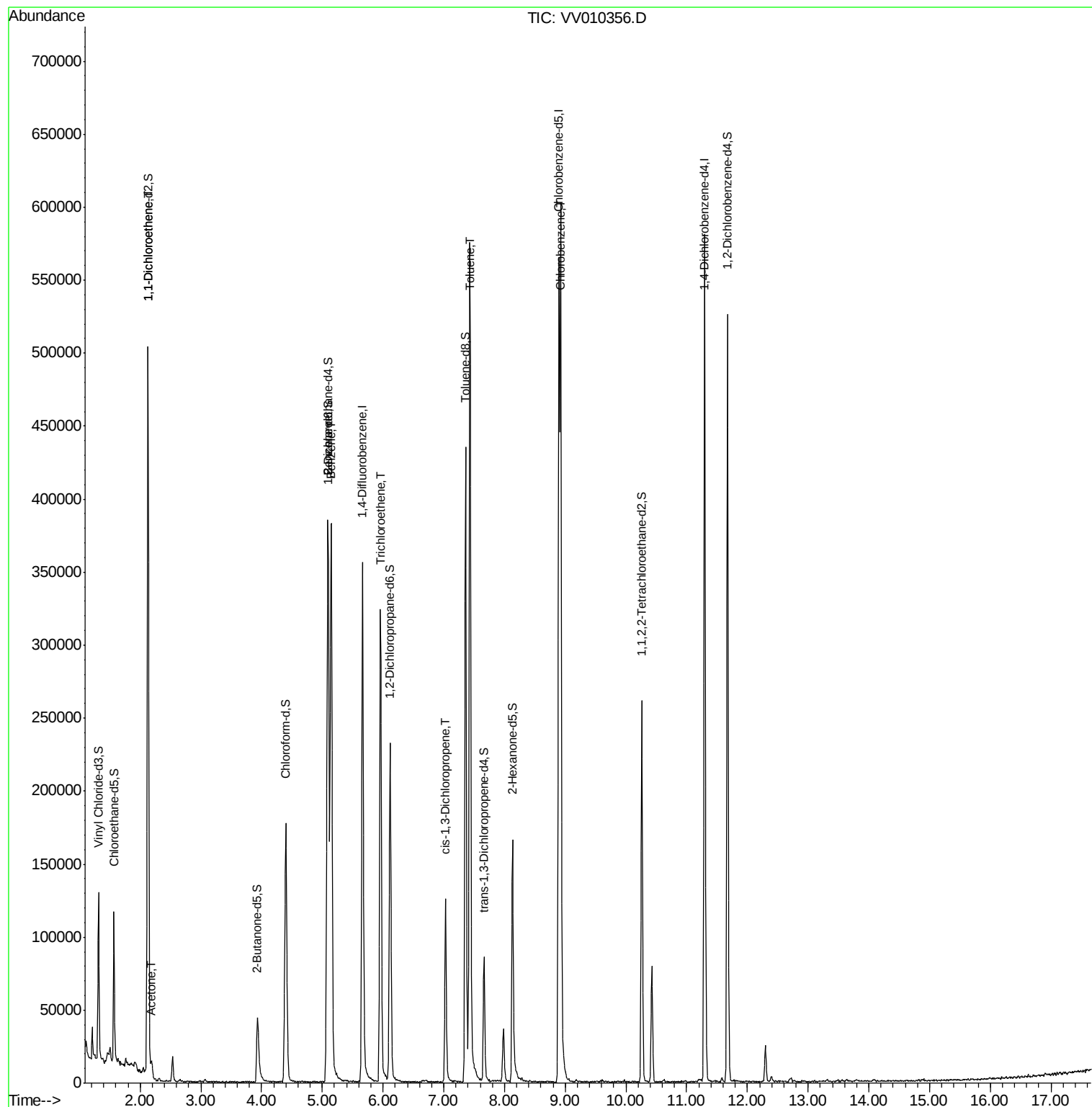
| Target Compounds            | R.T. | QIon | Response | Conc   | Units  | Qvalue |
|-----------------------------|------|------|----------|--------|--------|--------|
| 12) 1,1-Dichloroethene      | 2.13 | 96   | 92716    | 23.576 | ug/L   | 96     |
| 13) Acetone                 | 2.19 | 43   | 4127     | 3.267  | ug/L   | 95     |
| 34) Benzene                 | 5.15 | 78   | 364432   | 24.735 | ug/L   | 100    |
| 35) Trichloroethene         | 5.96 | 95   | 104594   | 23.994 | ug/L   | 99     |
| 42) cis-1,3-Dichloropropene | 7.03 | 75   | 4097     | 0.719  | ug/L # | 63     |
| 44) Toluene                 | 7.43 | 91   | 423452   | 25.494 | ug/L   | 98     |
| 52) Chlorobenzene           | 8.93 | 112  | 309838   | 26.809 | ug/L   | 100    |

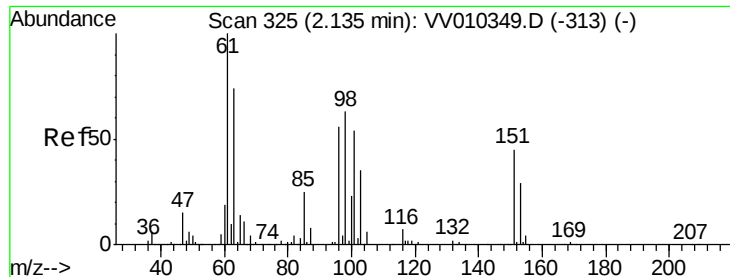
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 19 06:12:53 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOM2VLM041819S.M  
Quant Title : VOC Analysis  
QLast Update : Fri Apr 19 06:08:59 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 23.576 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010356.D

Acq: 18 Apr 2019 18:43

Instrument :

MSVOA\_V

ClientSampleId :

A5135MSD

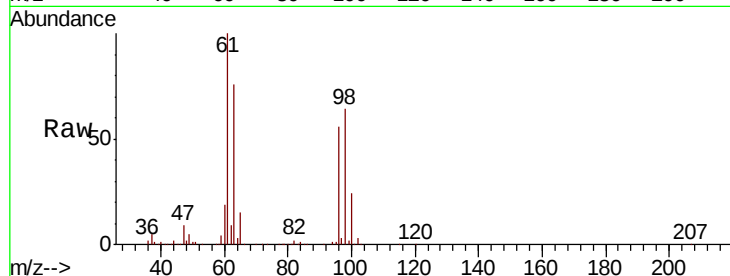
Tgt Ion: 96 Resp: 92716

Ion Ratio Lower Upper

96 100

61 179.3 124.7 231.5

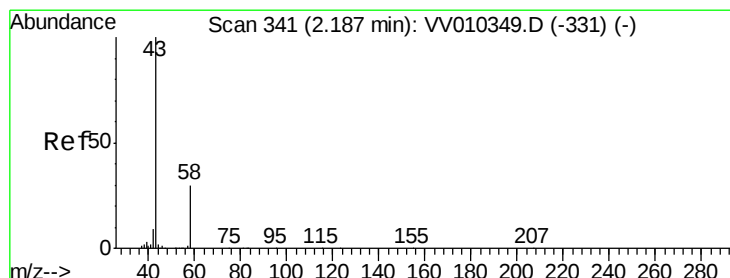
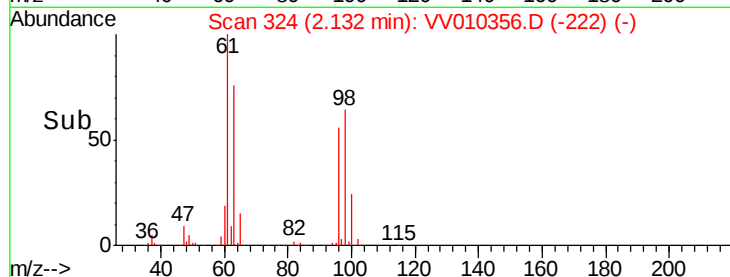
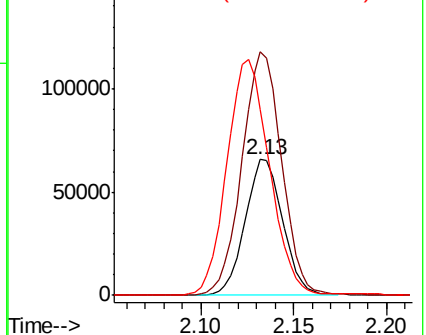
63 136.6 88.7 164.7



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0



#13

Acetone

Concen: 3.267 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV010356.D

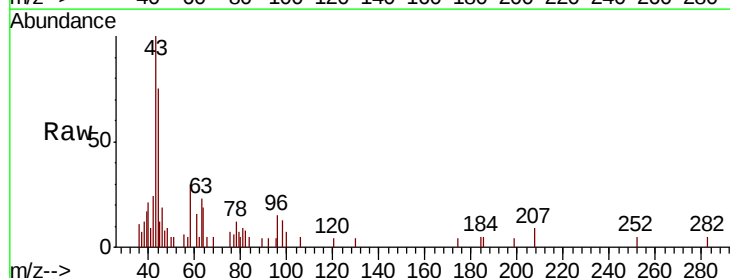
Acq: 18 Apr 2019 18:43

Tgt Ion: 43 Resp: 4127

Ion Ratio Lower Upper

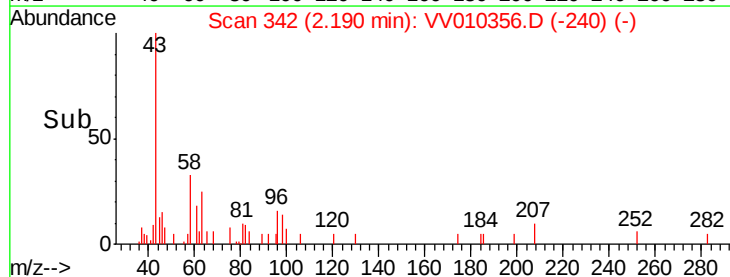
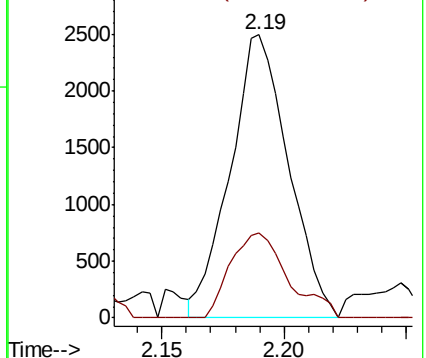
43 100

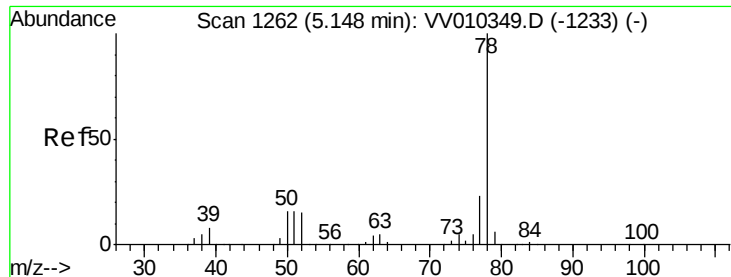
58 27.4 0.0 60.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0





#34

Benzene

Concen: 24.735 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV010356.D

Acq: 18 Apr 2019 18:43

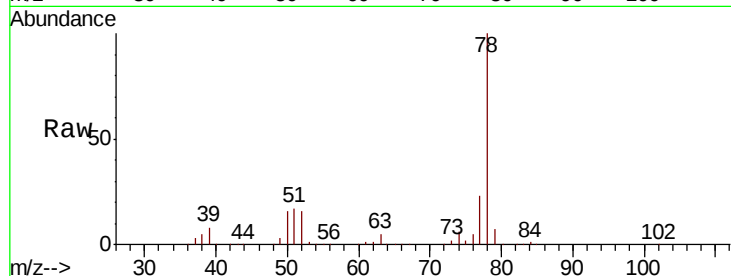
Instrument :

MSVOA\_V

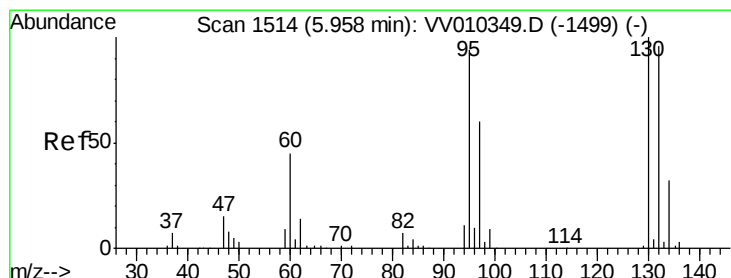
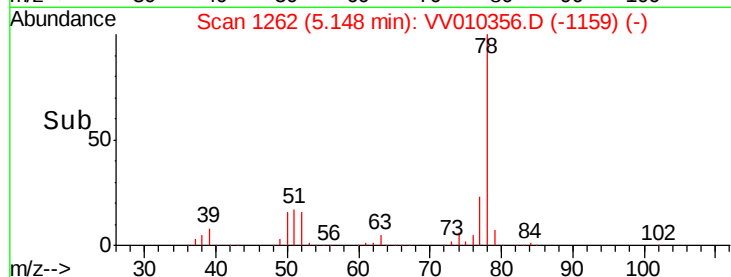
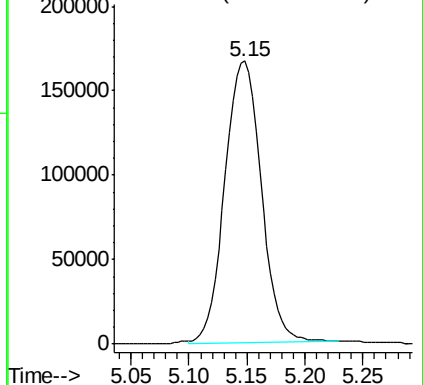
ClientSampled :

A5135MSD

Tgt Ion: 78 Resp: 364432



Abundance Ion 78.00 (77.70 to 78.70): VV0



#35

Trichloroethene

Concen: 23.994 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV010356.D

Acq: 18 Apr 2019 18:43

Tgt Ion: 95 Resp: 104594

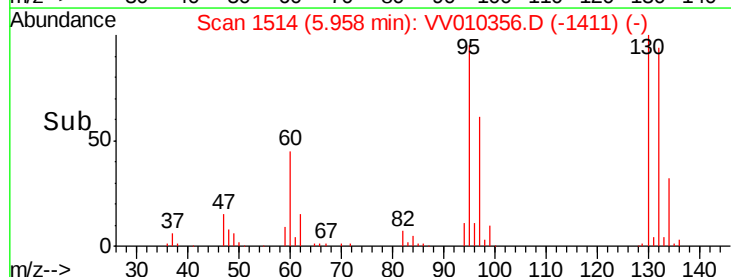
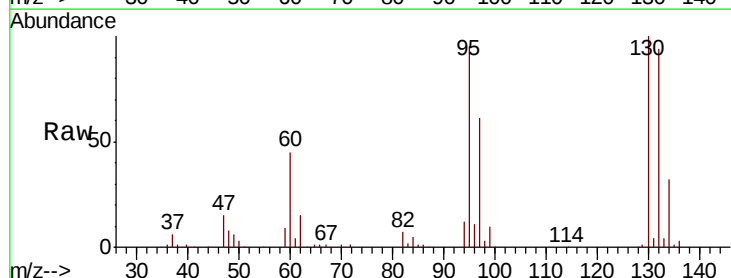
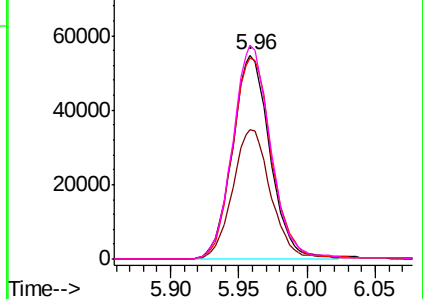
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.4  | 45.6  | 84.8  |
| 132 | 102.0 | 71.5  | 132.7 |
| 130 | 105.1 | 74.0  | 137.4 |

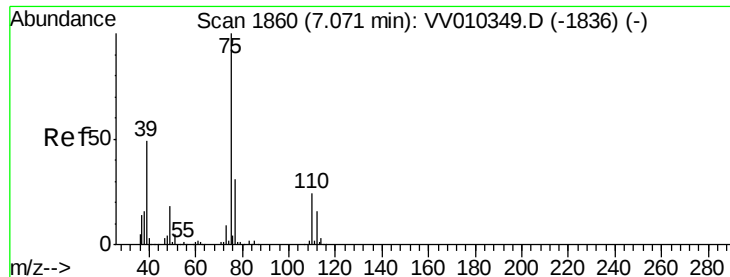
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



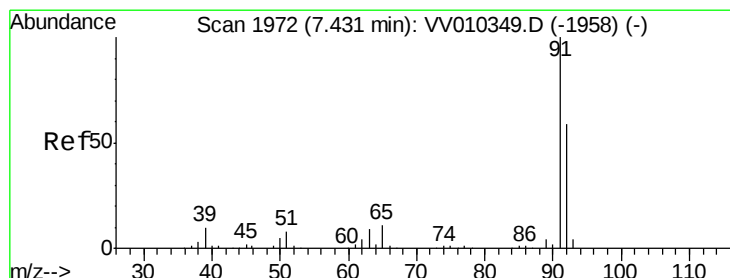
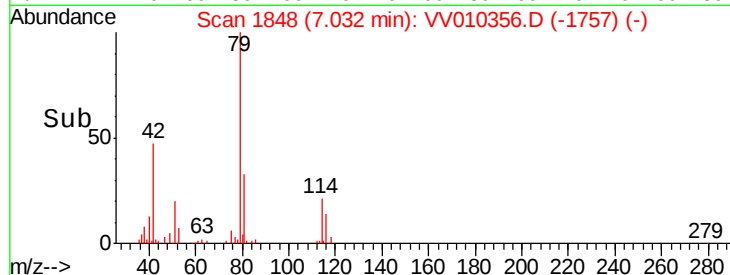
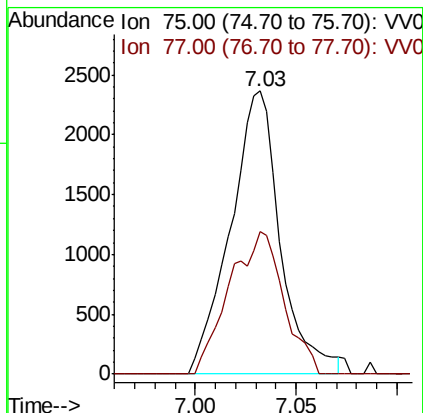
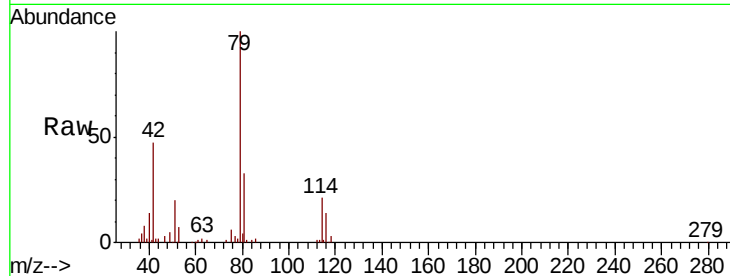


#42

cis-1,3-Dichloropropene  
Concen: 0.719 ug/L  
RT: 7.03 min Scan# 1848  
Delta R.T. -0.04 min  
Lab File: VV010356.D  
Acq: 18 Apr 2019 18:43

Instrument :  
MSVOA\_V  
ClientSampled :  
A5135MSD

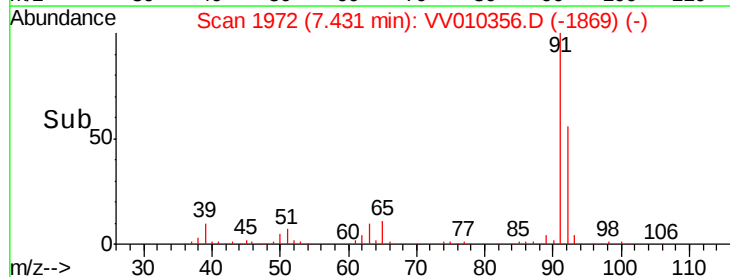
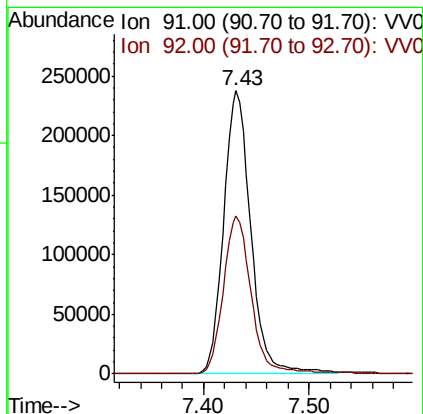
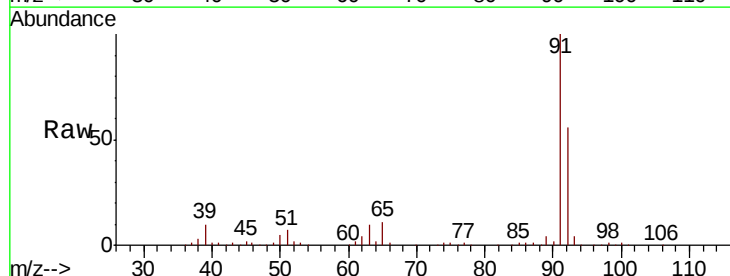
Tgt Ion: 75 Resp: 4097  
Ion Ratio Lower Upper  
75 100  
77 50.4 21.1 39.1#

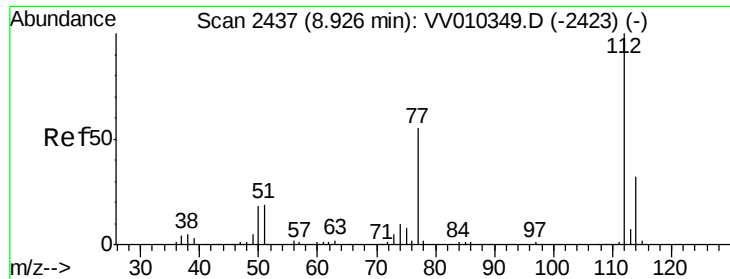


#44

Toluene  
Concen: 25.494 ug/L  
RT: 7.43 min Scan# 1972  
Delta R.T. 0.00 min  
Lab File: VV010356.D  
Acq: 18 Apr 2019 18:43

Tgt Ion: 91 Resp: 423452  
Ion Ratio Lower Upper  
91 100  
92 55.7 40.1 74.5





#52

Chlorobenzene

Concen: 26.809 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010356.D

Acq: 18 Apr 2019 18:43

Instrument :

MSVOA\_V

ClientSampleId :

A5135MSD

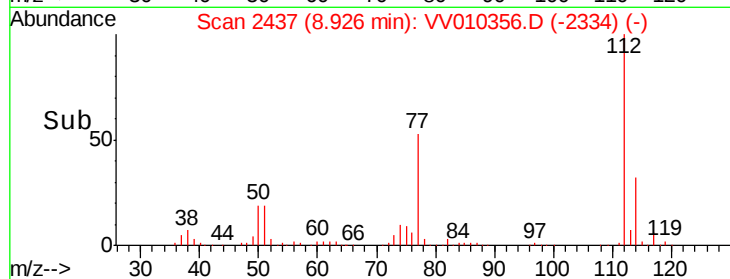
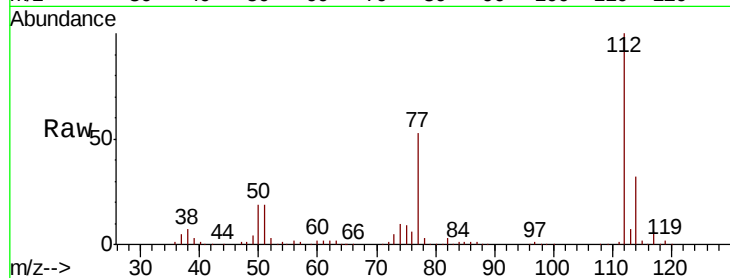
Tgt Ion:112 Resp: 309838

Ion Ratio Lower Upper

112 100

77 53.5 43.0 64.4

114 31.8 22.5 41.9



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

