

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011520\  
 Data File : VU036475.D  
 Acq On : 15 Jan 2020 17:25  
 Operator : JC/MD  
 Sample : L1139-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jan 16 05:59:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM011420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jan 16 05:57:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 458703   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 438426   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 182584   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 134866   | 45.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 90.70%  |
| 7) Chloroethane-d5             | 1.93    | 69    | 118894   | 46.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.36%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 203890   | 35.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.42%  |
| 21) 2-Butanone-d5              | 4.68    | 46    | 259875   | 101.64   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.64% |
| 24) Chloroform-d               | 5.11    | 84    | 290532   | 49.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.14%  |
| 26) 1,2-Dichloroethane-d4      | 5.75    | 65    | 198623   | 50.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.92% |
| 32) Benzene-d6                 | 5.77    | 84    | 567934   | 49.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.06%  |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 185784   | 49.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.64%  |
| 41) Toluene-d8                 | 7.93    | 98    | 524196   | 48.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.68%  |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 94128    | 46.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.72%  |
| 47) 2-Hexanone-d5              | 8.67    | 63    | 190985   | 99.94    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.94%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 275153   | 49.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 98.10%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 179931   | 50.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.06% |

## Target Compounds

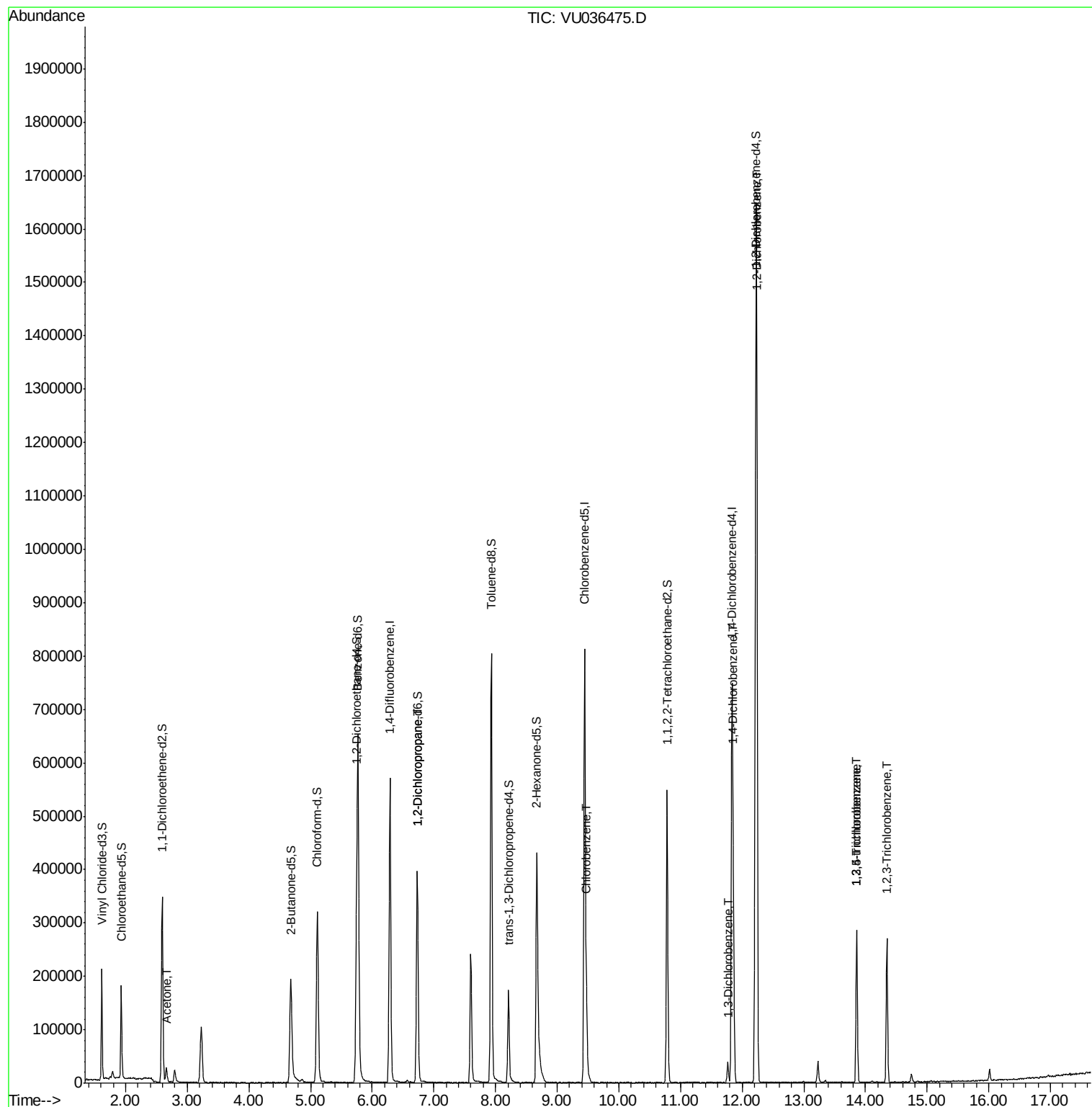
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 13) Acetone                | 2.66  | 43   | 28065    | 10.142 | ug/L   | 99     |
| 37) 1,2-Dichloropropane    | 6.73  | 63   | 21497    | 6.438  | ug/L # | 89     |
| 51) Chlorobenzene          | 9.48  | 112  | 81715    | 9.497  | ug/L   | 98     |
| 62) 1,3-Dichlorobenzene    | 11.77 | 146  | 14365    | 2.499  | ug/L   | 95     |
| 63) 1,4-Dichlorobenzene    | 11.86 | 146  | 114783   | 19.869 | ug/L   | 97     |
| 65) 1,2-Dichlorobenzene    | 12.24 | 146  | 553975   | 97.685 | ug/L   | 98     |
| 67) 1,3,5-Trichlorobenzene | 13.86 | 180  | 75576    | 21.738 | ug/L   | 98     |
| 68) 1,2,4-Trichlorobenzene | 13.86 | 180  | 75576    | 29.498 | ug/L   | 96     |
| 70) 1,2,3-Trichlorobenzene | 14.35 | 180  | 72547    | 27.294 | ug/L   | 97     |

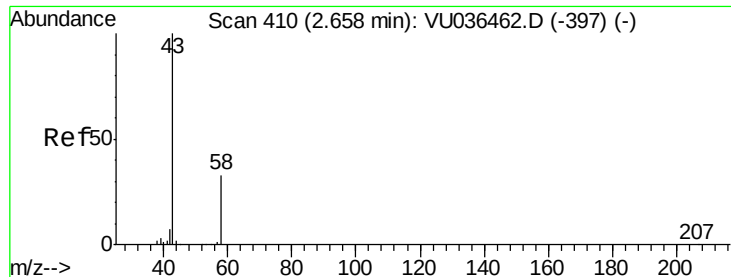
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU011520\  
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Operator : JC/MD  
Sample : L1139-01  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jan 16 05:59:51 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM011420WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Jan 16 05:57:22 2020  
Response via : Initial Calibration





#13

Acetone

Concen: 10.142 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU036475.D

Acq: 15 Jan 2020 17:25

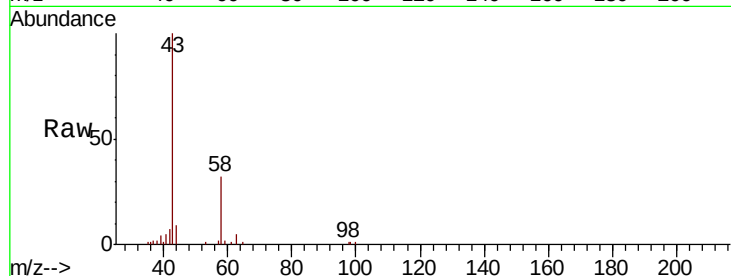
Instrument :  
MSVOA\_U  
ClientSampleId :

Tot Ion: 43 Resp: 28065

Ion Ratio Lower Upper

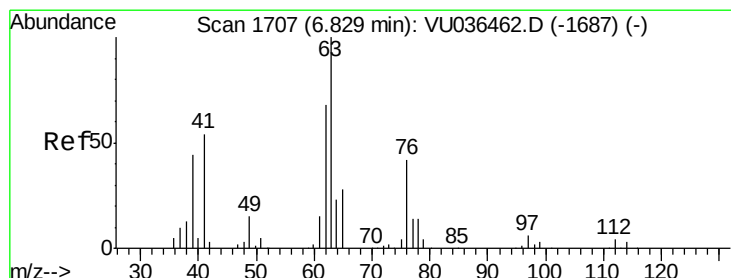
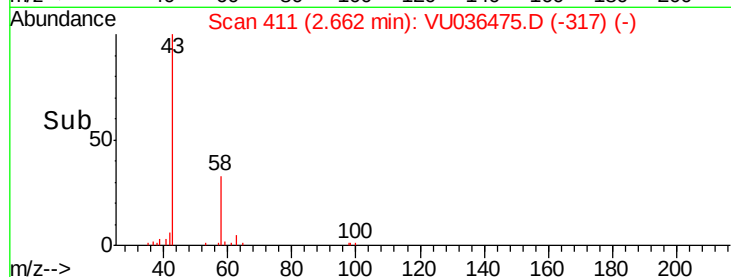
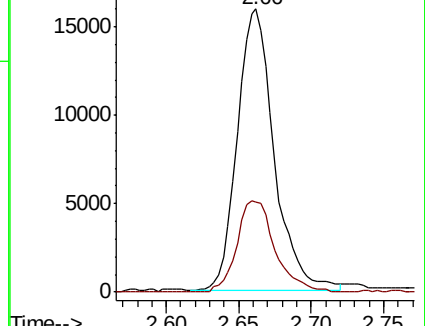
43 100

58 33.3 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VU036462.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU036462.D (-397) (-)



#37

1,2-Dichloropropane

Concen: 6.438 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.10 min

Lab File: VU036475.D

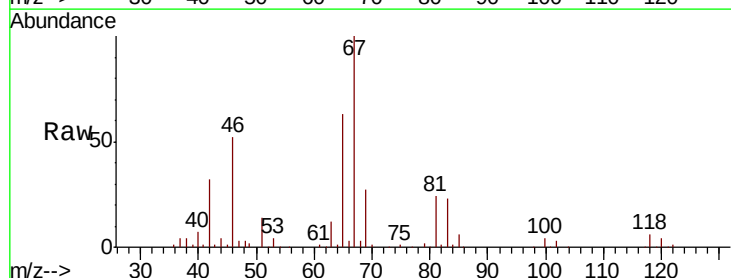
Acq: 15 Jan 2020 17:25

Tgt Ion: 63 Resp: 21497

Ion Ratio Lower Upper

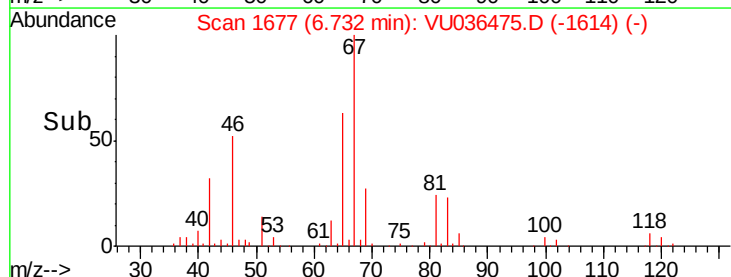
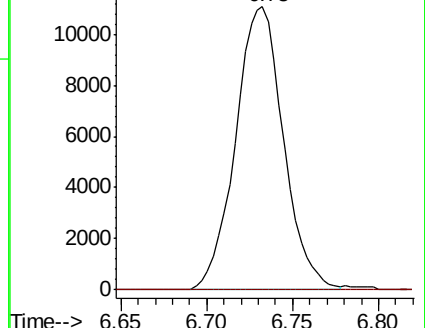
63 100

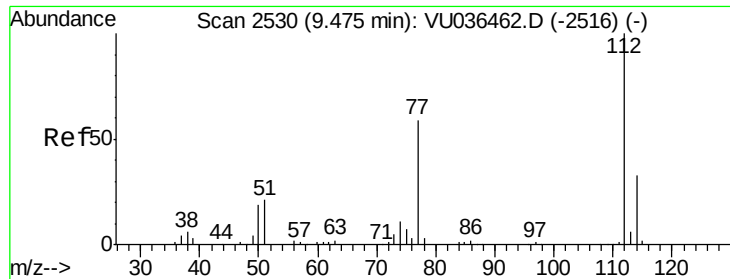
112 0.0 3.0 4.4#



Abundance Ion 63.00 (62.70 to 63.70): VU036462.D (-1687) (-)

Ion 112.00 (111.70 to 112.70): VU036462.D (-1687) (-)





#51

Chlorobenzene

Concen: 9.497 ug/L

RT: 9.48 min Scan# 2530

Delta R.T. 0.00 min

Lab File: VU036475.D

Acq: 15 Jan 2020 17:25

Instrument :

MSVOA\_U

ClientSampleId :

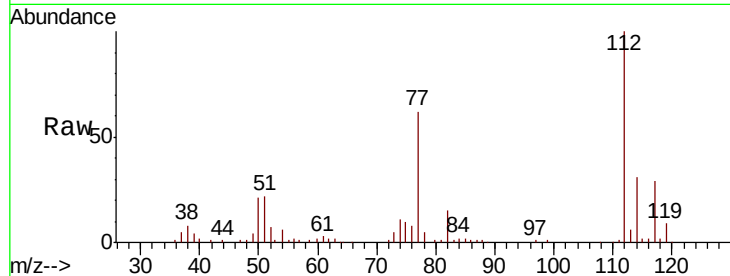
Tot Ion:112 Resp: 81715

Ion Ratio Lower Upper

112 100

114 30.6 22.0 41.0

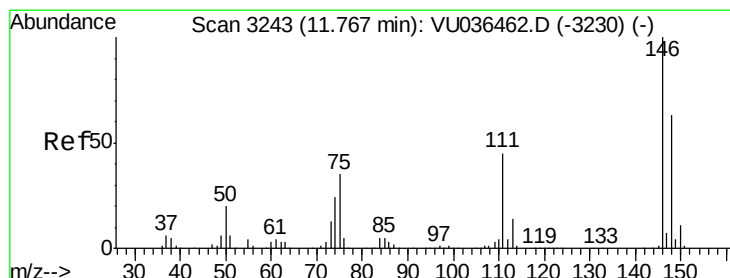
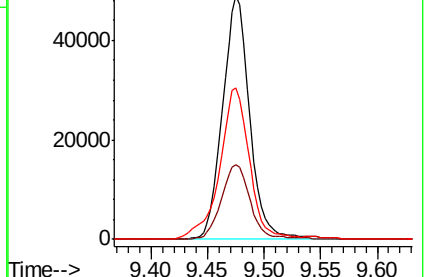
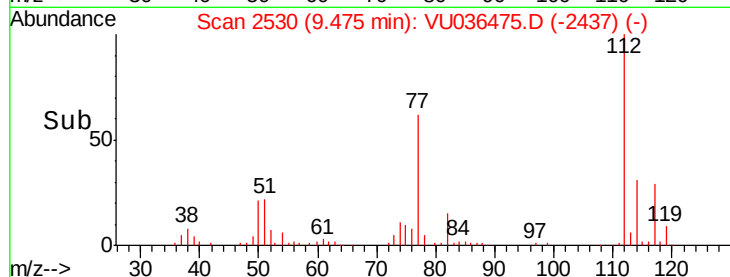
77 62.0 47.8 71.8



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): VU



#62

1,3-Dichlorobenzene

Concen: 2.499 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036475.D

Acq: 15 Jan 2020 17:25

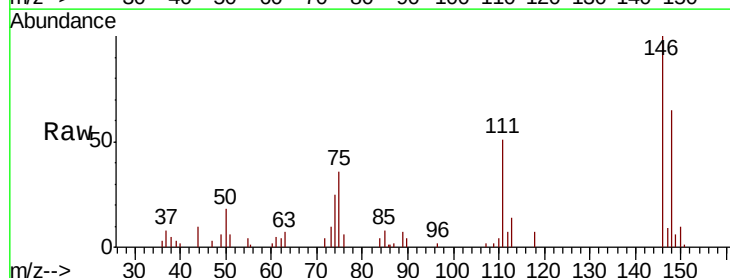
Tgt Ion:146 Resp: 14365

Ion Ratio Lower Upper

146 100

111 51.0 31.3 58.1

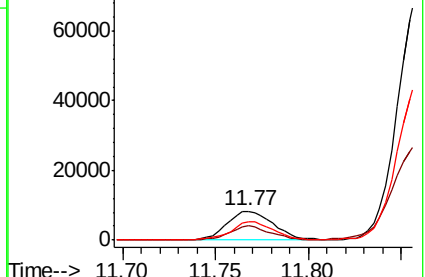
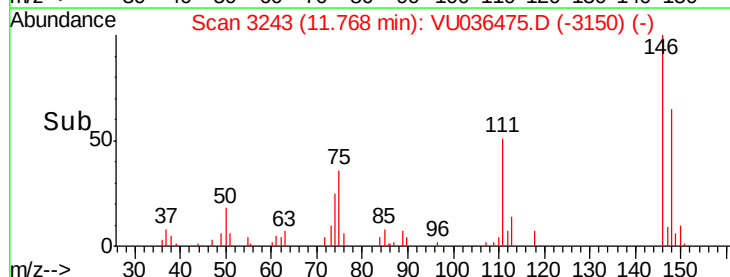
148 64.7 44.7 82.9

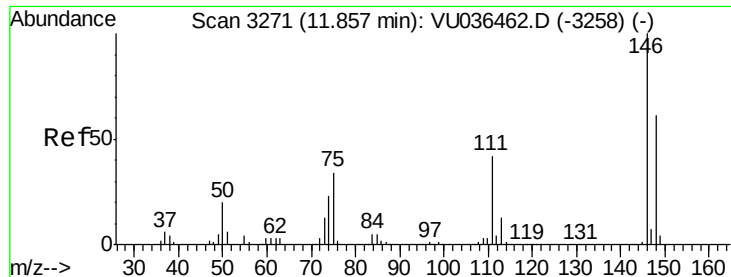


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 19.869 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. 0.00 min

Lab File: VU036475.D

Acq: 15 Jan 2020 17:25

Instrument :

MSVOA\_U

ClientSampleId :

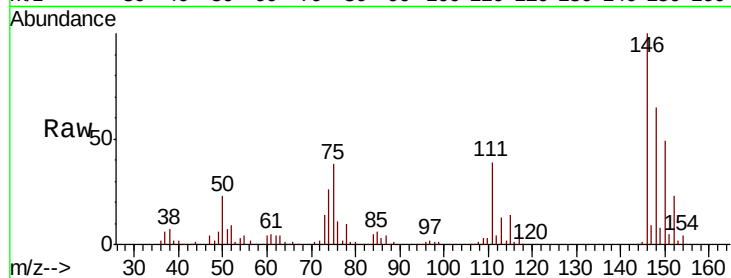
Tot Ion:146 Resp: 114783

Ion Ratio Lower Upper

146 100

111 39.3 29.3 54.3

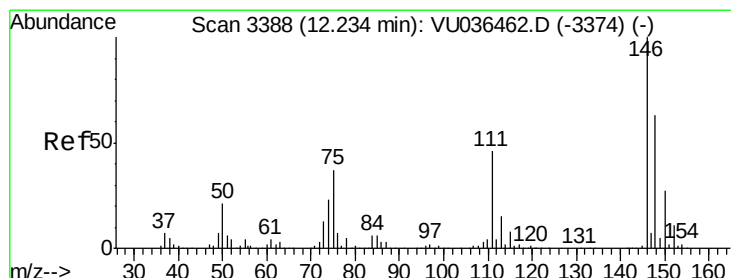
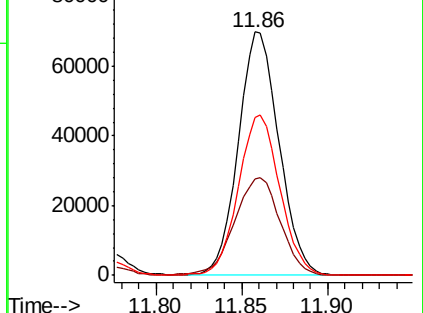
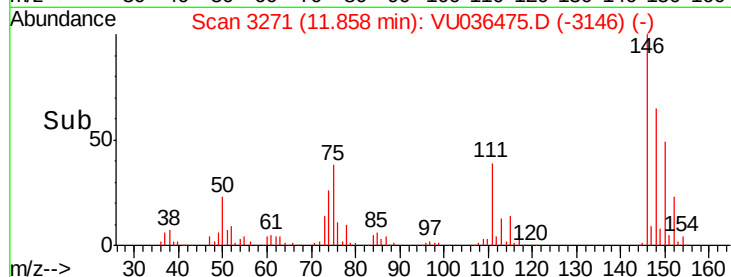
148 65.0 43.8 81.3



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: 97.685 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU036475.D

Acq: 15 Jan 2020 17:25

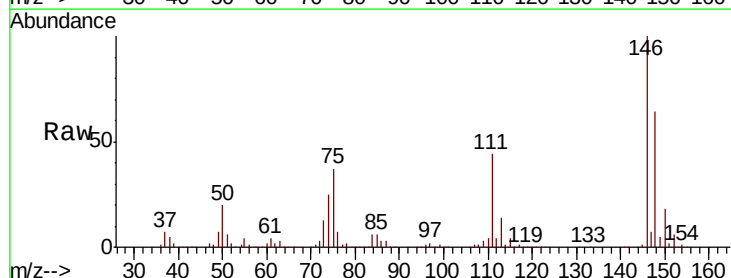
Tgt Ion:146 Resp: 553975

Ion Ratio Lower Upper

146 100

111 44.2 37.0 55.4

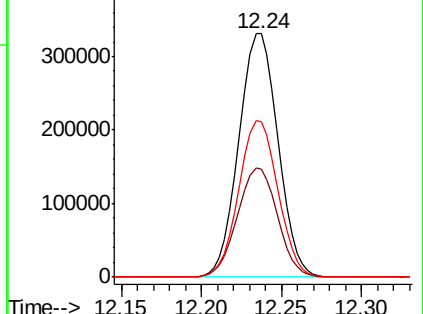
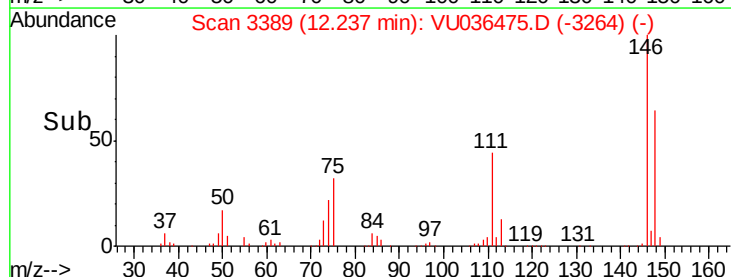
148 63.9 52.3 78.5

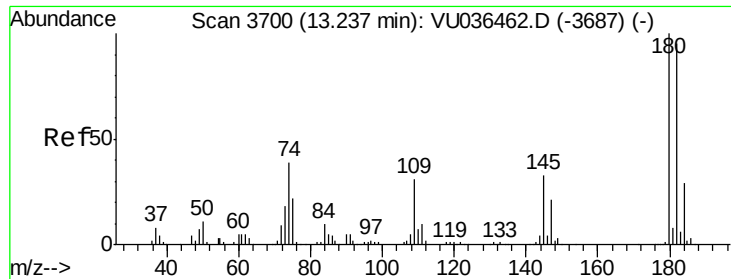


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

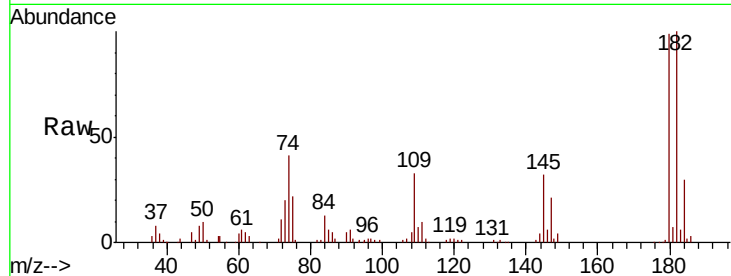




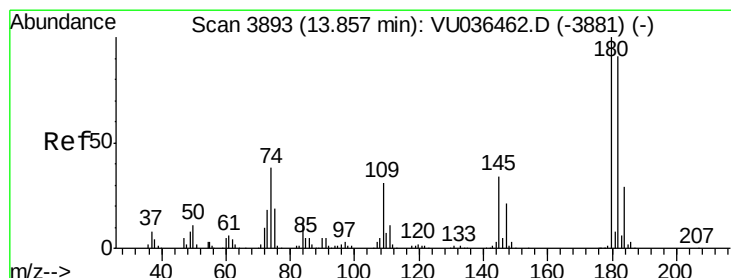
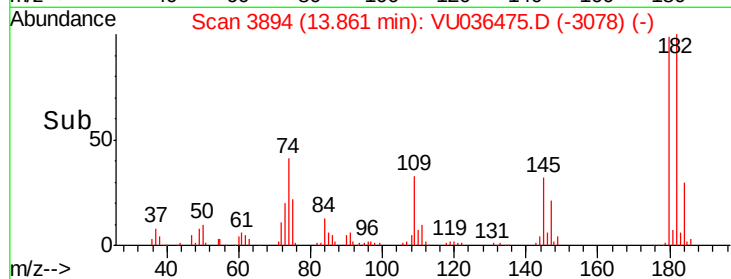
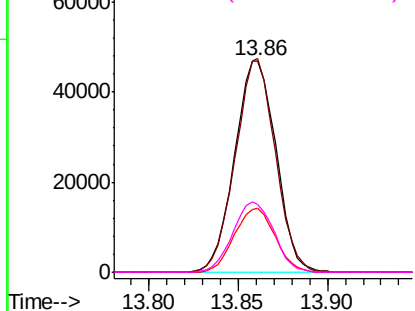
#67  
 1,3,5-Trichlorobenzene  
 Concen: 21.738 ug/L  
 RT: 13.86 min Scan# 3894  
 Delta R.T. 0.62 min  
 Lab File: VU036475.D  
 Acq: 15 Jan 2020 17:25

Instrument :  
 MSVOA\_U  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 180   | Resp: | 75576 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 97.5  | 75.8  | 113.6 |
| 184      | 29.8  | 24.4  | 36.6  |
| 145      | 33.0  | 26.6  | 39.8  |

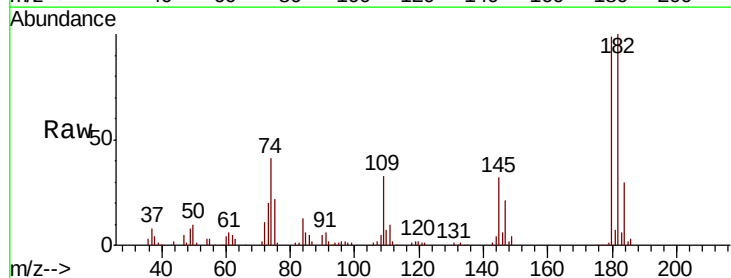


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

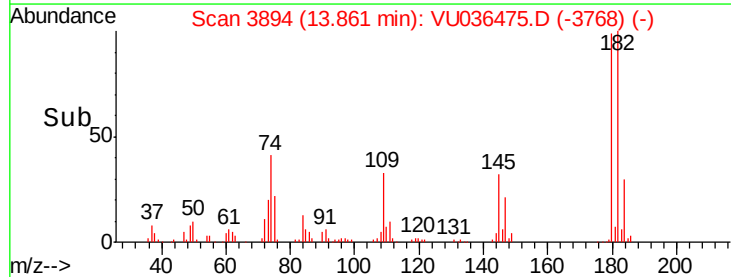
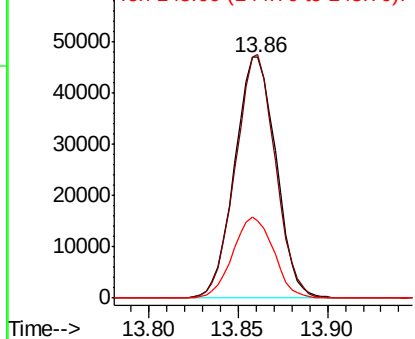


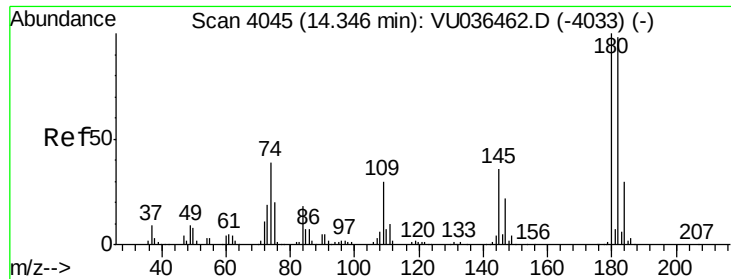
#68  
 1,2,4-trichlorobenzene  
 Concen: 29.498 ug/L  
 RT: 13.86 min Scan# 3894  
 Delta R.T. 0.00 min  
 Lab File: VU036475.D  
 Acq: 15 Jan 2020 17:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 75576 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 97.5  | 74.1  | 111.1 |
| 145      | 33.0  | 26.6  | 40.0  |



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

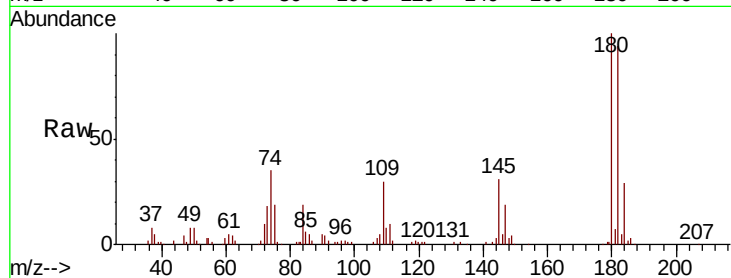




#70  
 1,2,3-Trichlorobenzene  
 Concen: 27.294 ug/L  
 RT: 14.35 min Scan# 4046  
 Delta R.T. 0.00 min  
 Lab File: VU036475.D  
 Acq: 15 Jan 2020 17:25

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Tot Ion:180 Resp: 72547  
 Ion Ratio Lower Upper  
 180 100  
 182 93.4 77.1 115.7  
 145 33.9 29.2 43.8



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

