

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062420\  
 Data File : VU039057.D  
 Acq On : 24 Jun 2020 11:42  
 Operator : SY/MD  
 Sample : L3061-02  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFXH9

Manual Integrations  
 APPROVED

MMDadoda  
 6/25/2020 6:08:33 PM

Quant Time: Jun 25 01:42:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jun 25 01:01:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 260680   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 266844   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 119261   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 117423   | 6.15     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 123.00% |
| 7) Chloroethane-d5             | 1.93   | 69    | 100604   | 6.38     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 127.60% |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 171002   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.20%  |
| 20) 2-Butanone-d5              | 4.67   | 46    | 409572   | 59.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 118.90% |
| 24) Chloroform-d               | 5.10   | 84    | 217834   | 5.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 116.00% |
| 26) 1,2-Dichloroethane-d4      | 5.74   | 65    | 131199   | 5.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 113.60% |
| 32) Benzene-d6                 | 5.76   | 84    | 431481   | 5.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 116.60% |
| 36) 1,2-Dichloropropane-d6     | 6.72   | 67    | 141110   | 5.67     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 113.40% |
| 41) Toluene-d8                 | 7.92   | 98    | 362927   | 5.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 117.20% |
| 43) trans-1,3-Dichloropropene- | 8.20   | 79    | 56056    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 103.80% |
| 46) 2-Hexanone-d5              | 8.66   | 63    | 316748   | 56.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 113.58% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77  | 84    | 125326   | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 108.40% |
| 64) 1,2-Dichlorobenzene-d4     | 12.20  | 152   | 132257   | 5.95     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 119.00% |

## Target Compounds

| Target Compounds             | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|------------------------------|-------|------|----------|-------|--------|--------|
| 5) Vinyl chloride            | 1.62  | 62   | 5948     | 0.235 | ug/L # | 61     |
| 8) Chloroethane              | 1.95  | 64   | 8808     | 0.577 | ug/L   | 100    |
| 13) Acetone                  | 2.67  | 43   | 14634    | 3.128 | ug/L   | 87     |
| 14) Carbon disulfide         | 2.82  | 76   | 37002    | 0.615 | ug/L   | 95     |
| 16) Methylene chloride       | 3.08  | 84   | 1717     | 0.077 | ug/L   | 81     |
| 18) trans-1,2-Dichloroethene | 3.39  | 96   | 5103     | 0.264 | ug/L   | 88     |
| 19) 1,1-Dichloroethane       | 3.91  | 63   | 143086   | 3.726 | ug/L   | 98     |
| 22) cis-1,2-Dichloroethene   | 4.71  | 96   | 4635     | 0.222 | ug/L   | 97     |
| 27) 1,2-Dichloroethane       | 5.83  | 62   | 5035m    | 0.183 | ug/L   |        |
| 33) Benzene                  | 5.81  | 78   | 106238   | 1.267 | ug/L   | 100    |
| 51) Chlorobenzene            | 9.47  | 112  | 47645    | 0.909 | ug/L   | 99     |
| 53) m,p-Xylene               | 9.71  | 106  | 3651     | 0.114 | ug/L   | 96     |
| 63) 1,4-Dichlorobenzene      | 11.85 | 146  | 3529     | 0.097 | ug/L # | 80     |
| 65) 1,2-Dichlorobenzene      | 12.22 | 146  | 25687    | 0.722 | ug/L   | 97     |

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

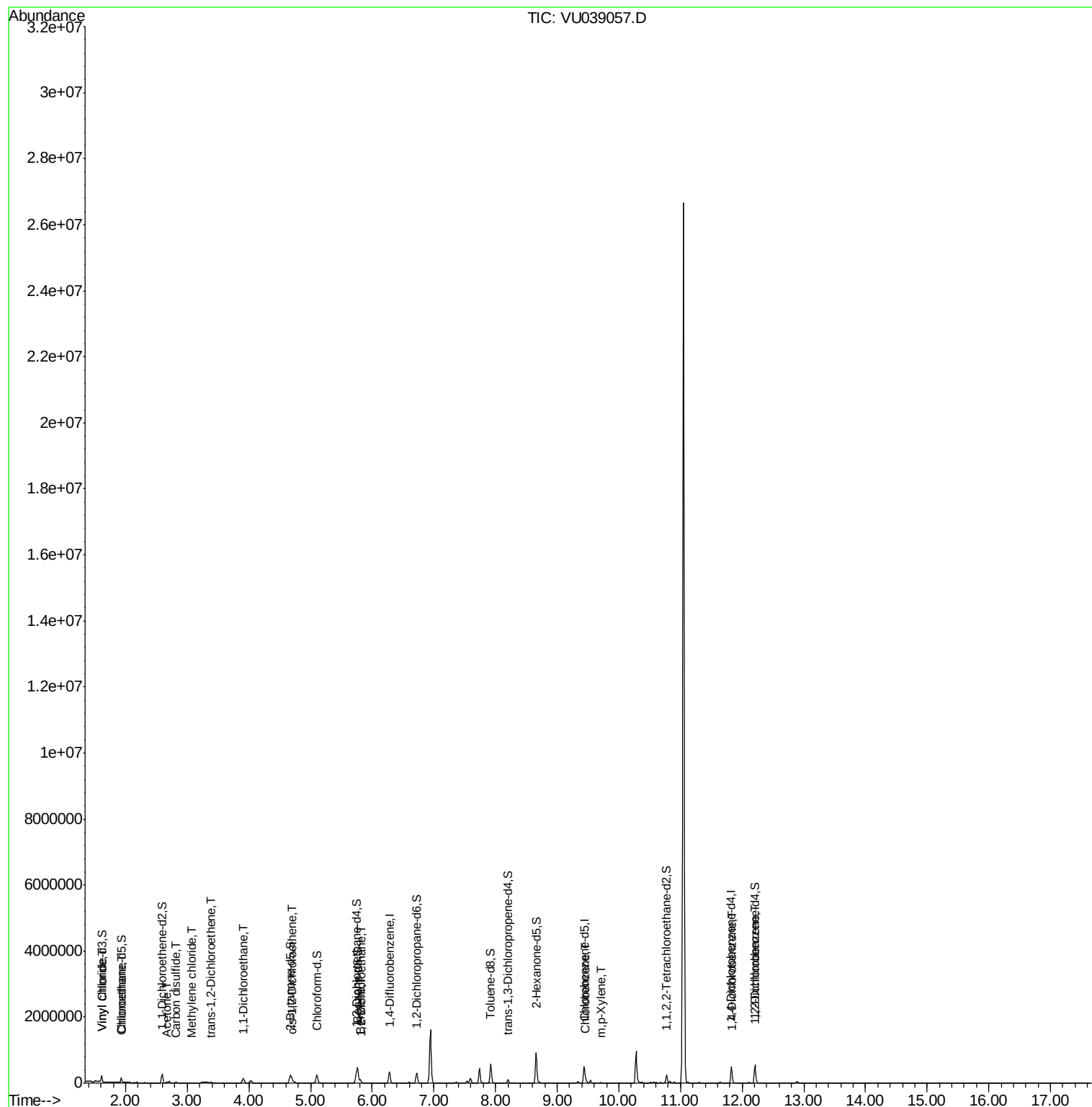
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062420\  
Data File : VU039057.D  
Acq On : 24 Jun 2020 11:42  
Operator : SY/MD  
Sample : L3061-02  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

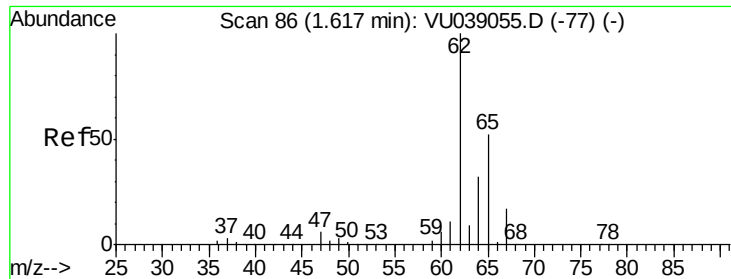
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFXH9

Manual Integrations  
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Quant Time: Jun 25 01:42:52 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jun 25 01:01:17 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.235 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU039057.D

Acq: 24 Jun 2020 11:42

Instrument :

MSVOA\_U

ClientSampled :

BFXH9

Tot Ion: 62 Resp: 5948

Ion Ratio Lower Upper

62 100

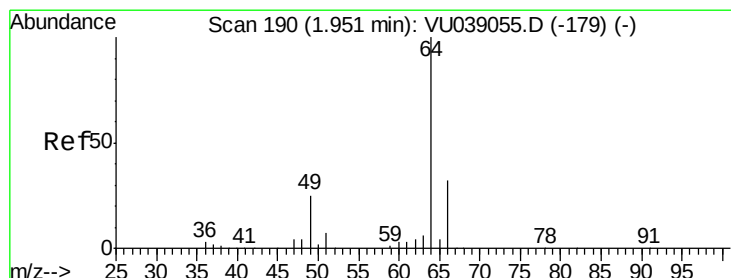
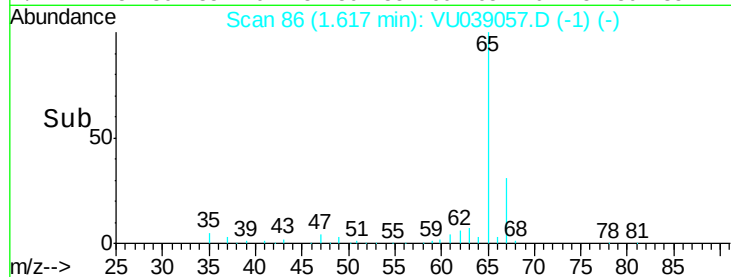
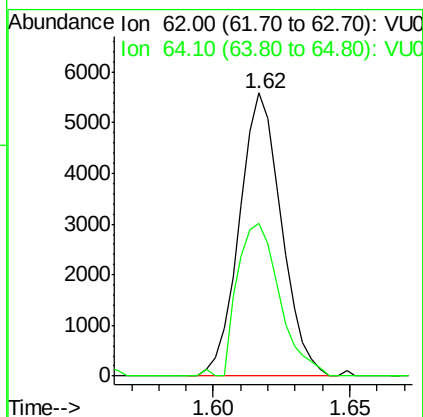
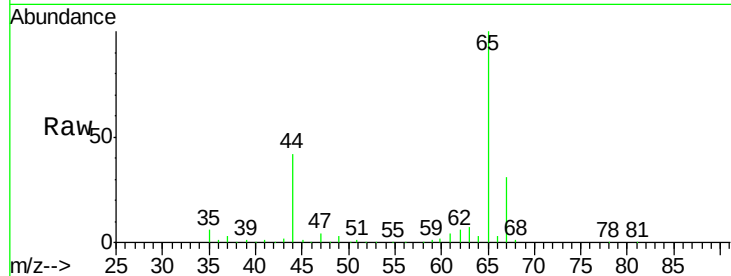
64 53.8 22.4 41.6#

Manual Integrations

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#8

Chloroethane

Concen: 0.577 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU039057.D

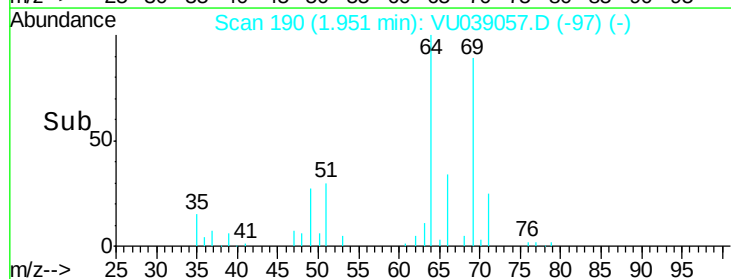
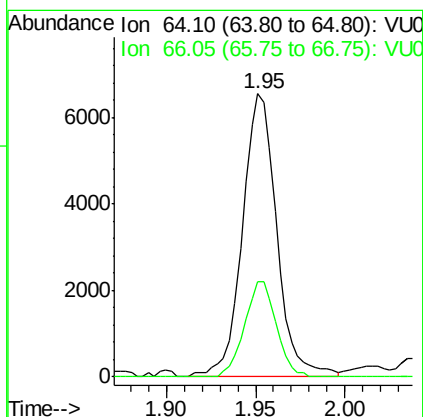
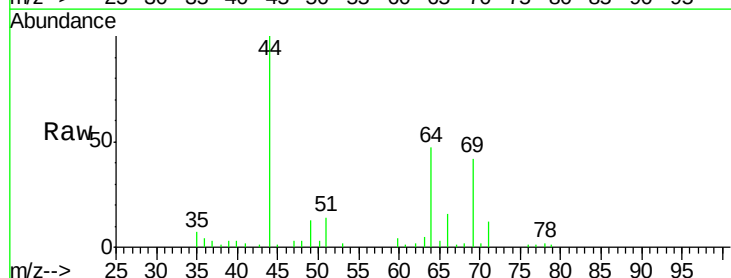
Acq: 24 Jun 2020 11:42

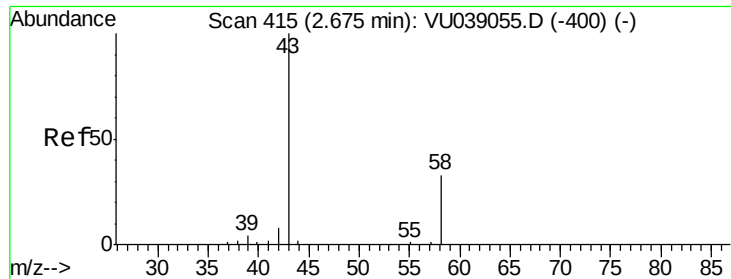
Tgt Ion: 64 Resp: 8808

Ion Ratio Lower Upper

64 100

66 33.5 23.4 43.4





#13

Acetone

Concen: 3.128 ug/L

RT: 2.67 min Scan# 415

Delta R.T. -0.00 min

Lab File: VU039057.D

Acq: 24 Jun 2020 11:42

Instrument :

MSVOA\_U

ClientSampled :

BFXH9

Tot Ion: 43 Resp: 14634

Ion Ratio Lower Upper

43 100

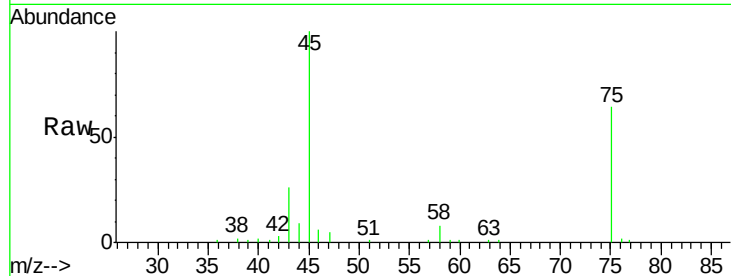
58 39.3 0.0 64.4

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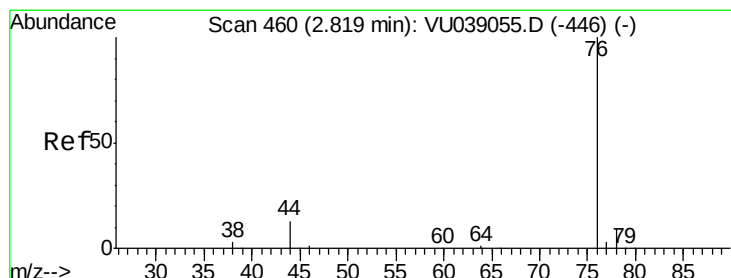
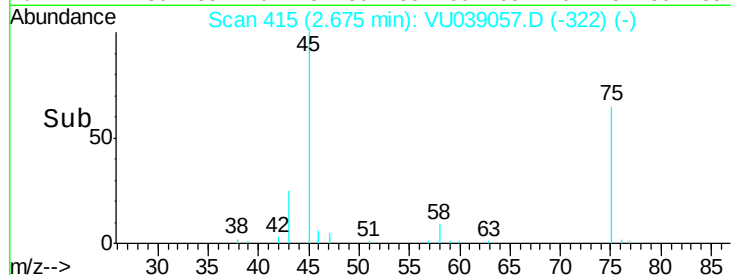


Abundance Ion 43.05 (42.75 to 43.75): VU039057.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU039057.D (-322) (-)

2.67

Time-->



#14

Carbon disulfide

Concen: 0.615 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU039057.D

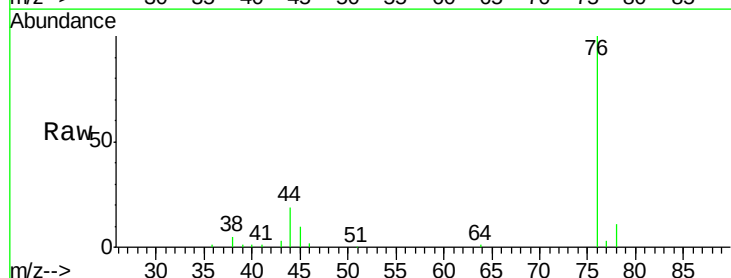
Acq: 24 Jun 2020 11:42

Tgt Ion: 76 Resp: 37002

Ion Ratio Lower Upper

76 100

78 10.5 7.0 10.6

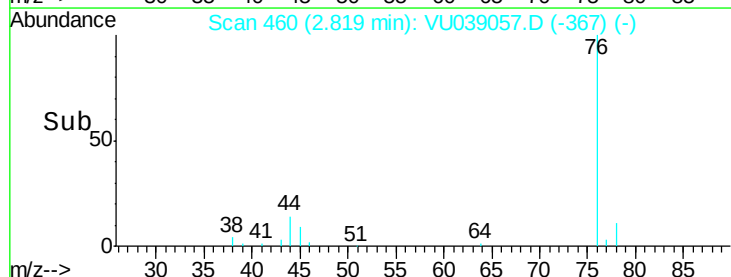


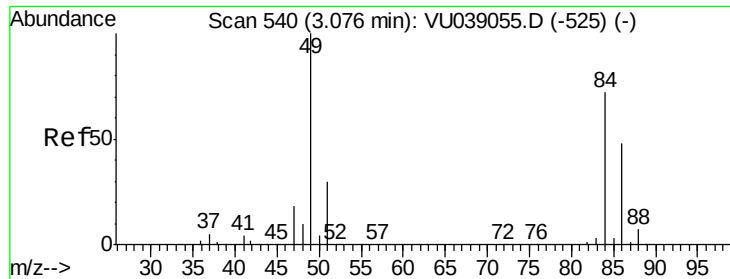
Abundance Ion 76.05 (75.75 to 76.75): VU039057.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU039057.D (-367) (-)

2.82

Time-->





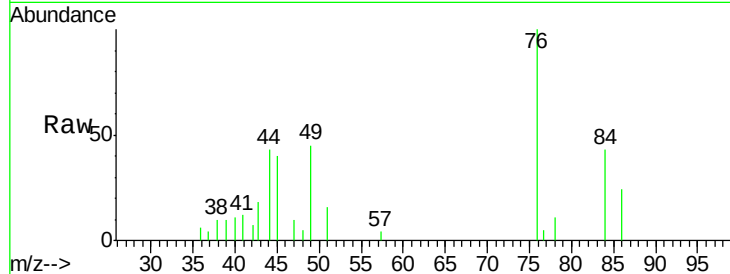
#16  
Methylene chloride  
Concen: 0.077 ug/L  
RT: 3.08 min Scan# 540  
Delta R.T. -0.00 min  
Lab File: VU039057.D  
Acq: 24 Jun 2020 11:42

Instrument :  
MSVOA\_U  
ClientSampled :  
BFXH9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 86      | 55.9  | 44.1  | 81.9  |
| 49      | 105.4 | 93.1  | 172.9 |

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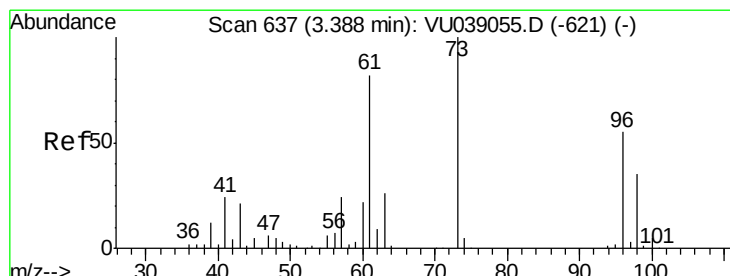
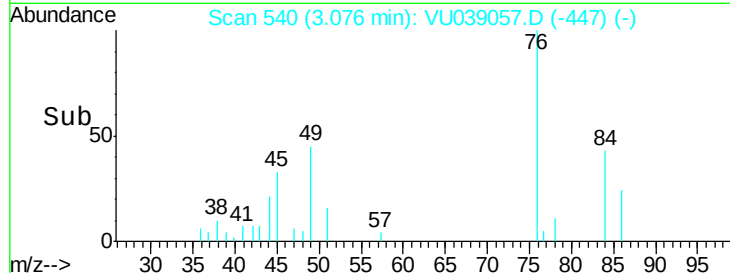
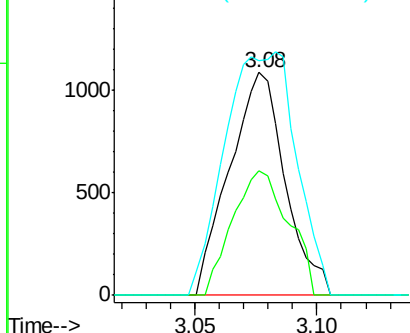
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Abundance Ion 84.05 (83.75 to 84.75): VU039057.D (-447) (-)

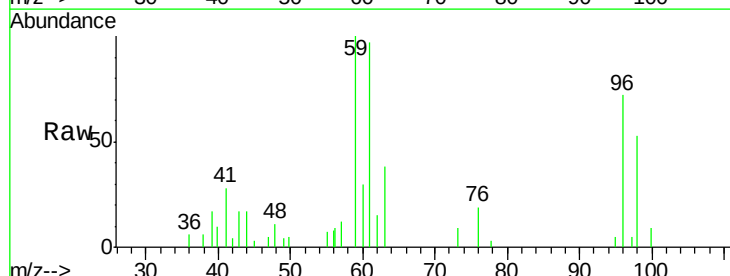
Ion 86.00 (85.70 to 86.70): VU039057.D (-447) (-)

Ion 49.10 (48.80 to 49.80): VU039057.D (-447) (-)



#18  
trans-1,2-Dichloroethene  
Concen: 0.264 ug/L  
RT: 3.39 min Scan# 637  
Delta R.T. -0.00 min  
Lab File: VU039057.D  
Acq: 24 Jun 2020 11:42

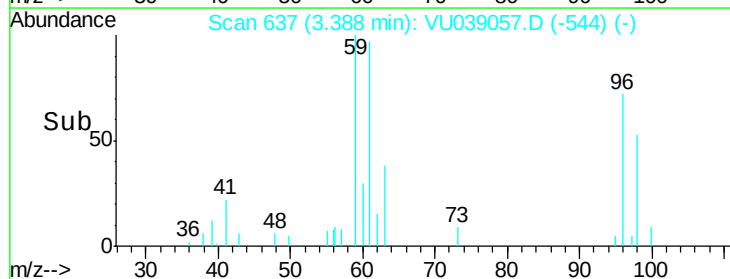
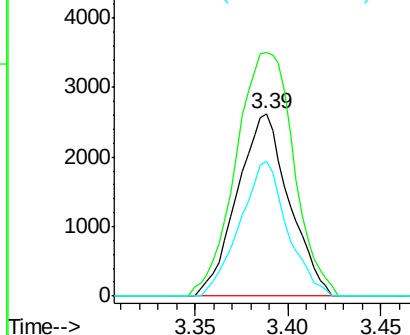
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 133.4 | 103.5 | 192.3 |
| 98      | 73.8  | 44.9  | 83.5  |

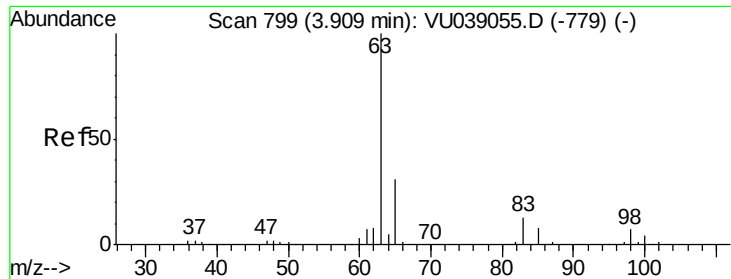


Abundance Ion 96.00 (95.70 to 96.70): VU039057.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU039057.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU039057.D (-544) (-)





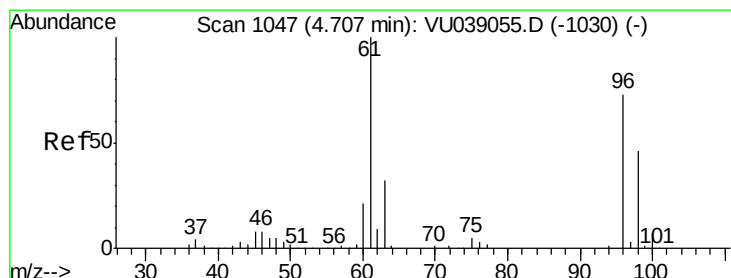
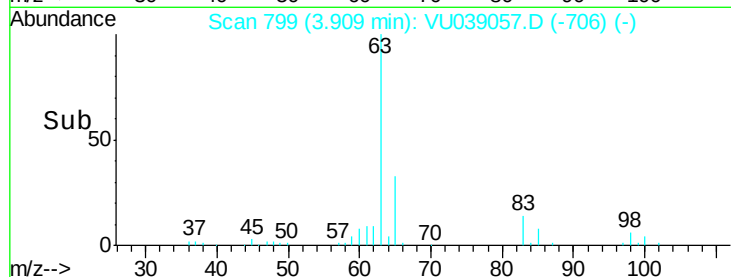
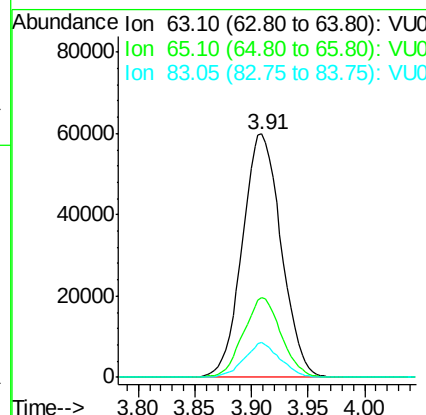
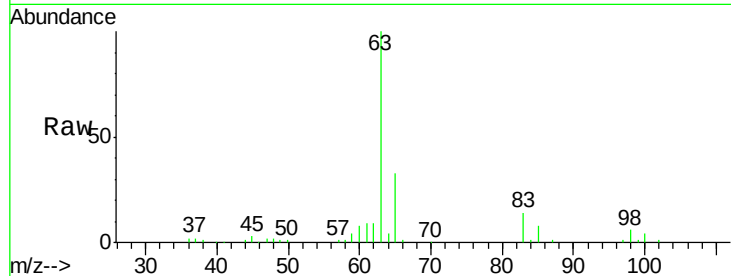
#19  
 1,1-Dichloroethane  
 Concen: 3.726 ug/L  
 RT: 3.91 min Scan# 799  
 Delta R.T. -0.00 min  
 Lab File: VU039057.D  
 Acq: 24 Jun 2020 11:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFXH9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.6  | 22.1  | 41.1  |
| 83      | 14.2  | 9.3   | 17.3  |

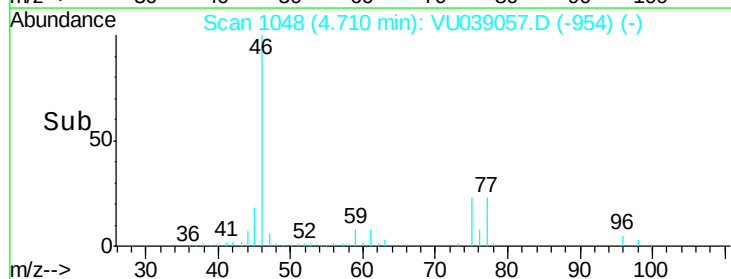
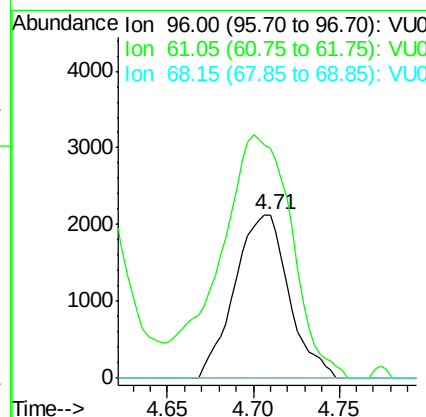
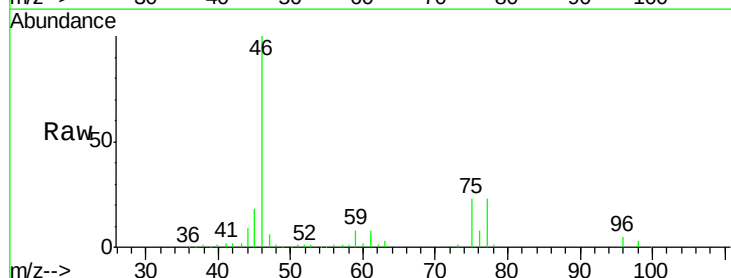
Manual Integrations  
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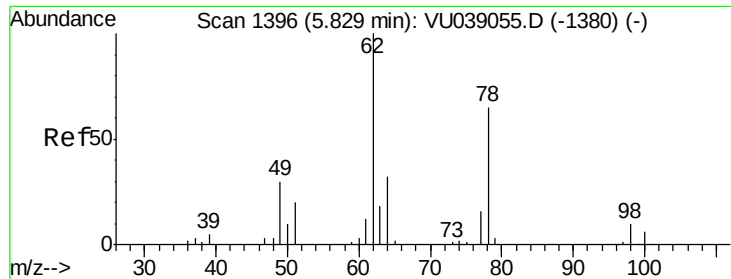
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#22  
 cis-1,2-Dichloroethene  
 Concen: 0.222 ug/L  
 RT: 4.71 min Scan# 1048  
 Delta R.T. 0.00 min  
 Lab File: VU039057.D  
 Acq: 24 Jun 2020 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 140.2 | 100.8 | 187.2 |
| 68      | 0.0   | 0.0   | 0.0   |





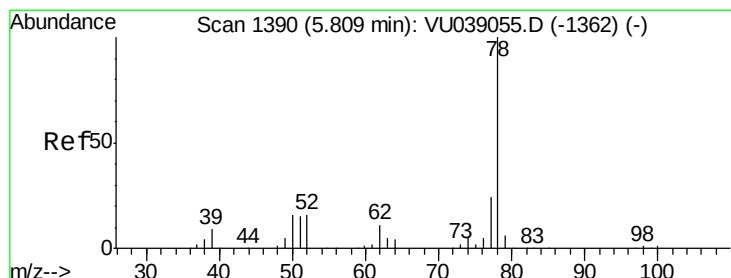
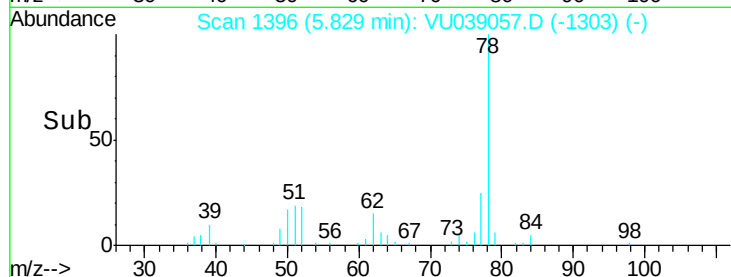
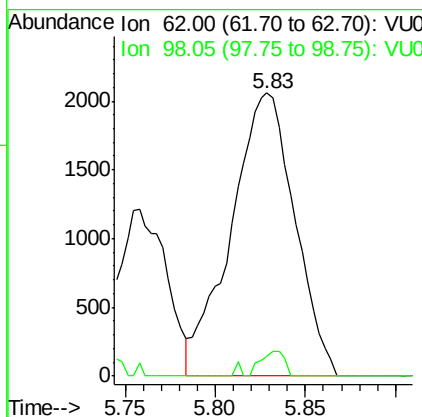
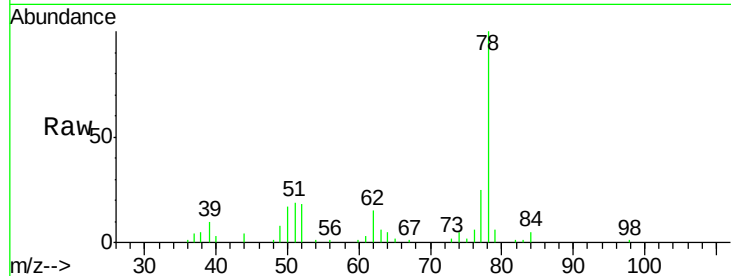
#27  
 1,2-Dichloroethane  
 Concen: 0.183 ug/L m  
 RT: 5.83 min Scan# 1396  
 Delta R.T. -0.00 min  
 Lab File: VU039057.D  
 Acq: 24 Jun 2020 11:42

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFXH9

Tot Ion: 62 Resp: 5035  
 Ion Ratio Lower Upper  
 62 100  
 98 7.0 7.7 11.5#

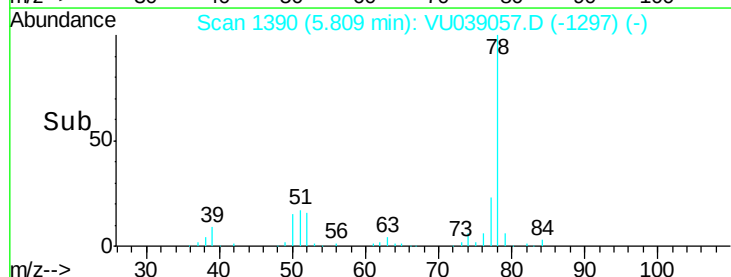
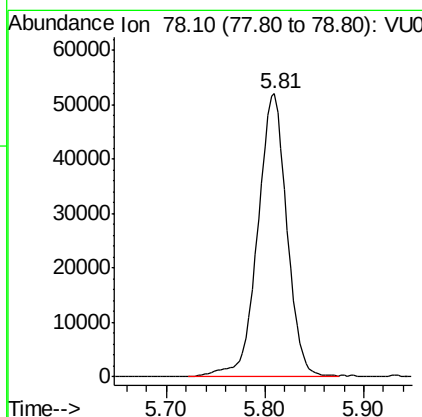
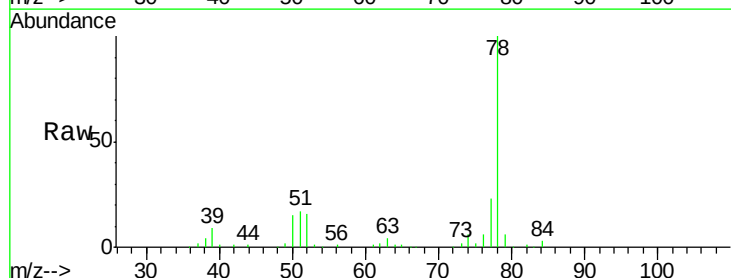
Manual Integrations  
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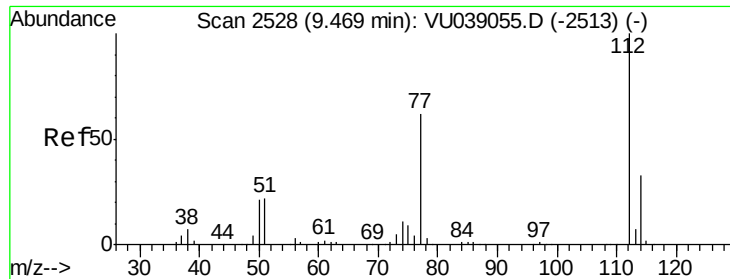
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#33  
 Benzene  
 Concen: 1.267 ug/L  
 RT: 5.81 min Scan# 1390  
 Delta R.T. -0.00 min  
 Lab File: VU039057.D  
 Acq: 24 Jun 2020 11:42

Tgt Ion: 78 Resp: 106238





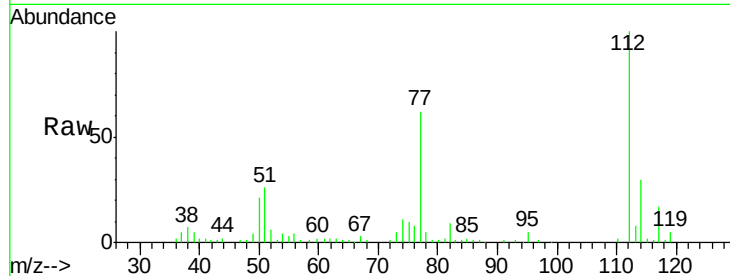
#51  
Chlorobenzene  
Concen: 0.909 ug/L  
RT: 9.47 min Scan# 2528  
Delta R.T. -0.00 min  
Lab File: VU039057.D  
Acq: 24 Jun 2020 11:42

Instrument :  
MSVOA\_U  
ClientSampled :  
BFXH9

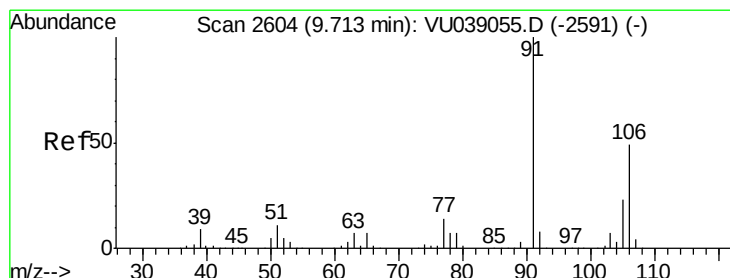
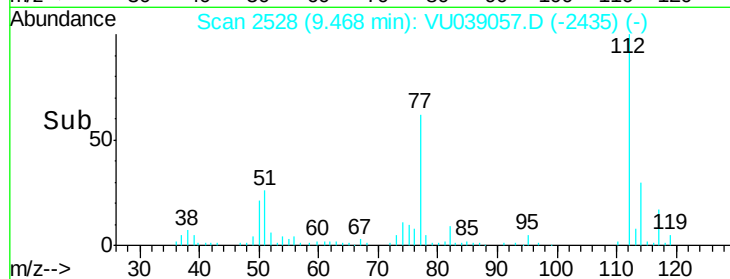
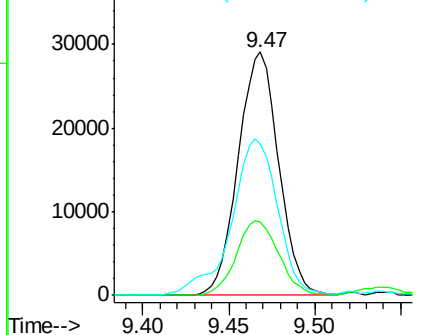
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 30.0  | 22.0  | 41.0  |
| 77      | 62.2  | 50.2  | 75.4  |

Manual Integrations  
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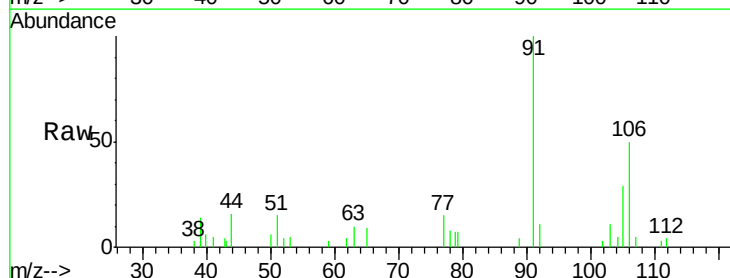


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V

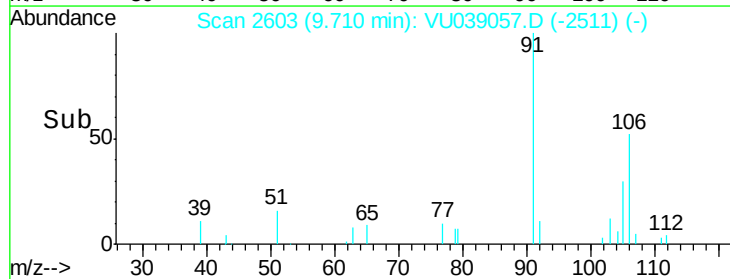
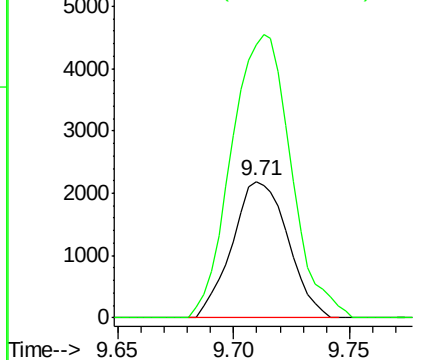


#53  
m,p-Xylene  
Concen: 0.114 ug/L  
RT: 9.71 min Scan# 2603  
Delta R.T. -0.00 min  
Lab File: VU039057.D  
Acq: 24 Jun 2020 11:42

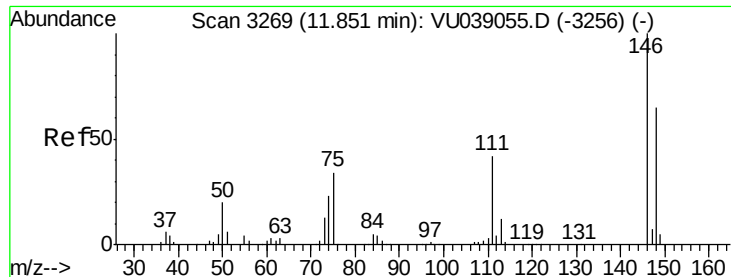
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 199.3 | 143.6 | 266.8 |



Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): V







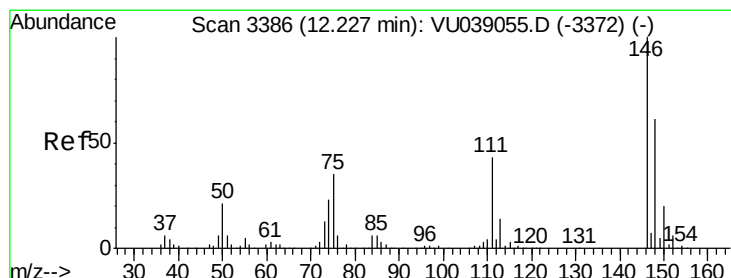
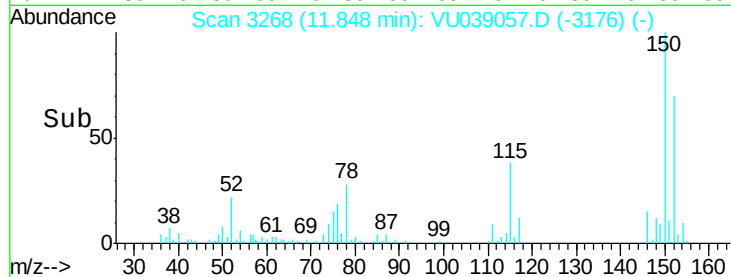
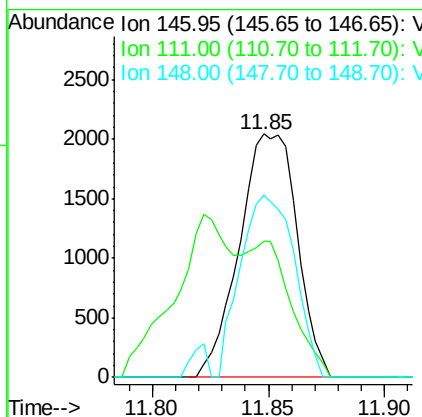
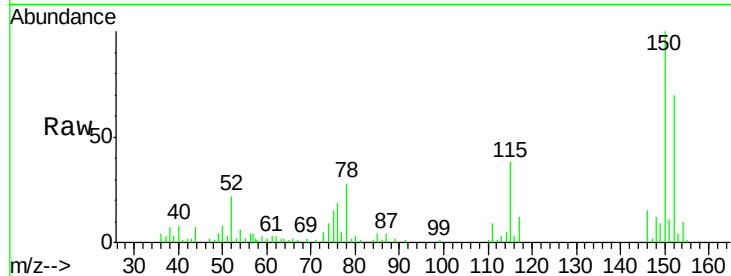
#63  
 1,4-Dichlorobenzene  
 Concen: 0.097 ug/L  
 RT: 11.85 min Scan# 3268  
 Delta R.T. -0.00 min  
 Lab File: VU039057.D  
 Acq: 24 Jun 2020 11:42

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 BFXH9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 56.0  | 28.4  | 52.8# |
| 148     | 74.9  | 43.4  | 80.6  |

Manual Integrations  
 APPROVED

MMDadoda  
 6/25/2020 6:08:33 PM



#65  
 1,2-Dichlorobenzene  
 Concen: 0.722 ug/L  
 RT: 12.22 min Scan# 3385  
 Delta R.T. -0.00 min  
 Lab File: VU039057.D  
 Acq: 24 Jun 2020 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 48.6  | 34.7  | 52.1  |
| 148     | 63.4  | 50.9  | 76.3  |

