

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070920\  
 Data File : VU039417.D  
 Acq On : 10 Jul 2020 00:43  
 Operator : SY/MD  
 Sample : L3261-05  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BE504

Manual Integrations  
 APPROVED

MMDadoda  
 7/13/2020 10:49:53 AM

Quant Time: Jul 10 02:44:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Jul 10 02:02:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.27  | 114  | 104981   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 109776   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 67210    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.60   | 65    | 25670    | 4.22     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.40%   |
| 7) Chloroethane-d5             | 1.93   | 69    | 26954    | 4.33     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 86.60%   |
| 11) 1,1-Dichloroethene-d2      | 2.58   | 63    | 41130    | 3.44     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 68.80%   |
| 20) 2-Butanone-d5              | 4.66   | 46    | 155463   | 55.84    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 111.68%  |
| 24) Chloroform-d               | 5.08   | 84    | 67353    | 5.20     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.72   | 65    | 43843    | 5.39     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 107.80%  |
| 32) Benzene-d6                 | 5.74   | 84    | 130873   | 4.95     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.00%   |
| 36) 1,2-Dichloropropane-d6     | 6.71   | 67    | 46165    | 4.97     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.40%   |
| 41) Toluene-d8                 | 7.91   | 98    | 114639   | 5.00     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.00%  |
| 43) trans-1,3-Dichloropropene- | 8.19   | 79    | 22998    | 5.61     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 112.20%  |
| 46) 2-Hexanone-d5              | 8.64   | 63    | 144897   | 59.57    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 119.14%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76  | 84    | 57731    | 6.27     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 125.40%# |
| 64) 1,2-Dichlorobenzene-d4     | 12.19  | 152   | 69056    | 5.76     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 115.20%  |

## Target Compounds

| Target Compounds             | R.T. | QIon | Response | Conc    | Units  | Ovalue |
|------------------------------|------|------|----------|---------|--------|--------|
| 5) Vinyl chloride            | 1.61 | 62   | 17756    | 2.074   | ug/L   | 99     |
| 8) Chloroethane              | 1.94 | 64   | 59566    | 9.631   | ug/L   | 96     |
| 13) Acetone                  | 2.68 | 43   | 26145    | 17.398  | ug/L   | 72     |
| 16) Methylene chloride       | 3.07 | 84   | 622      | 0.079   | ug/L   | 97     |
| 17) Methyl tert-butyl Ether  | 3.38 | 73   | 7496     | 0.381   | ug/L # | 1      |
| 18) trans-1,2-Dichloroethene | 3.37 | 96   | 825      | 0.119   | ug/L   | 92     |
| 19) 1,1-Dichloroethane       | 3.89 | 63   | 14543    | 1.075   | ug/L   | 96     |
| 21) 2-Butanone               | 4.74 | 43   | 16247m   | 6.057   | ug/L   |        |
| 22) cis-1,2-Dichloroethene   | 4.69 | 96   | 109480   | 14.126  | ug/L   | 97     |
| 30) Cyclohexane              | 5.41 | 56   | 10480    | 0.770   | ug/L   | 96     |
| 33) Benzene                  | 5.80 | 78   | 9670184  | 294.643 | ug/L   | 100    |
| 35) Methylcyclohexane        | 6.77 | 83   | 8767     | 0.645   | ug/L # | 81     |
| 40) 4-Methyl-2-pentanone     | 7.81 | 43   | 30017    | 4.022   | ug/L   | 97     |
| 42) Toluene                  | 7.98 | 91   | 16299800 | 463.790 | ug/L   | 85     |
| 51) Chlorobenzene            | 9.45 | 112  | 1333582  | 62.098  | ug/L   | 99     |
| 52) Ethylbenzene             | 9.57 | 91   | 2392909  | 61.608  | ug/L   | 100    |
| 53) m,p-Xylene               | 9.70 | 106  | 2758752  | 188.507 | ug/L   | 98     |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BE504

Manual Integrations  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Jul 10 02:02:00 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| 54) o-Xylene            | 10.10 | 106  | 834615   | 58.581 | ug/L  | 98       |
| 56) Isopropylbenzene    | 10.48 | 105  | 420280   | 10.908 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene | 11.74 | 146  | 12979    | 0.616  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene | 11.83 | 146  | 76619    | 3.626  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene | 12.21 | 146  | 96939    | 4.591  | ug/L  | 99       |

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

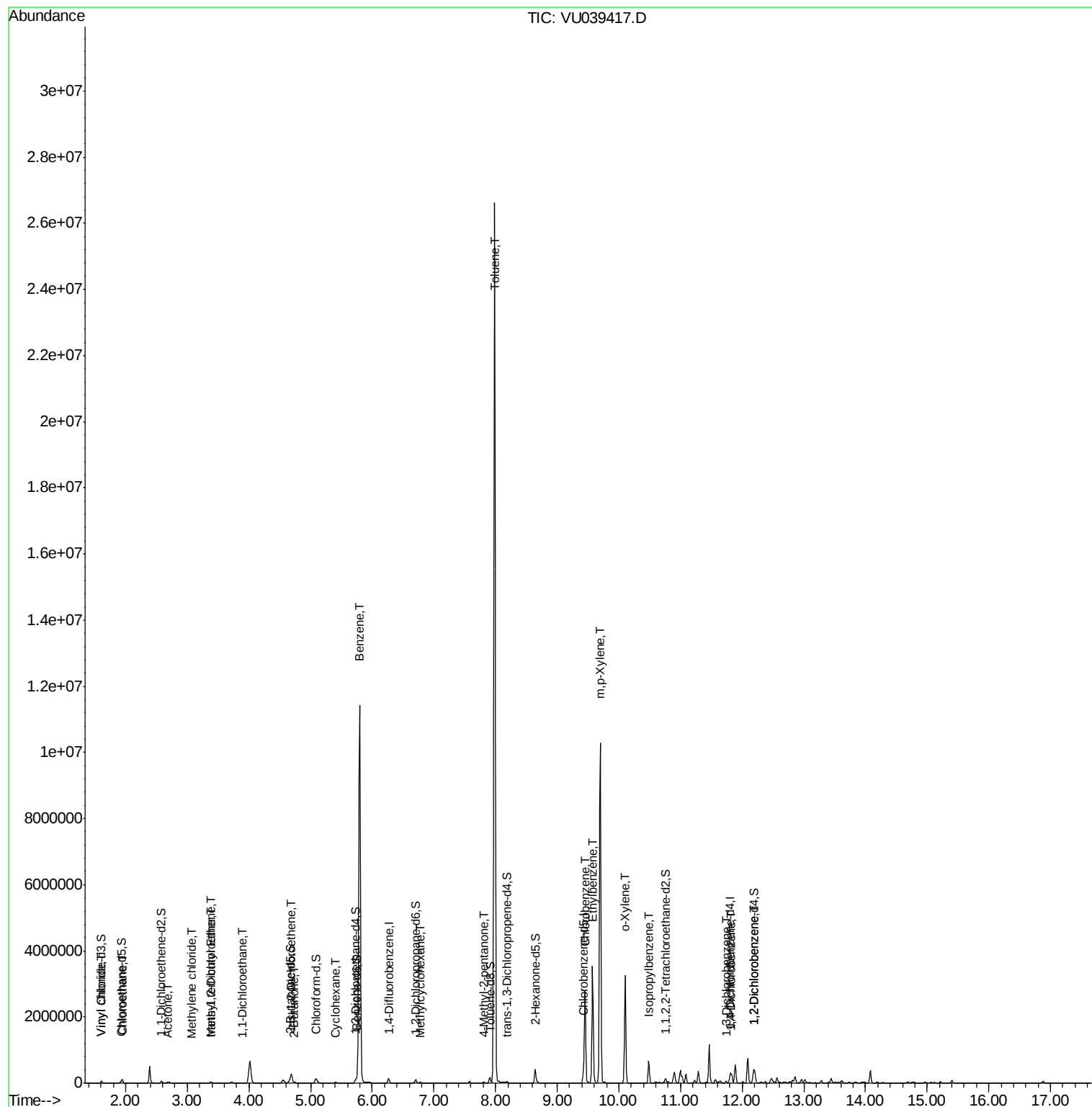
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU070920\  
Data File : VU039417.D  
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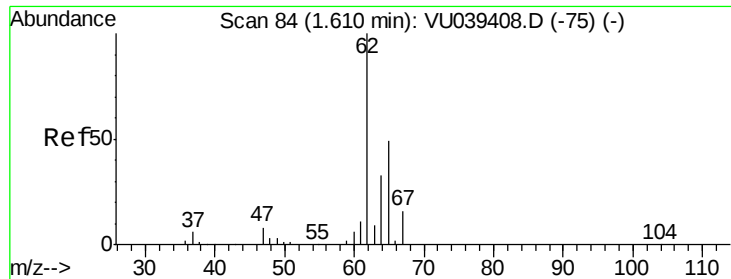
Instrument :  
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Quant Title : TRACE VOA SOM01.0  
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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.074 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

Instrument :

MSVOA\_U

ClientSampleId :

BE504

Tot Ion: 62 Resp: 17756

Ion Ratio Lower Upper

62 100

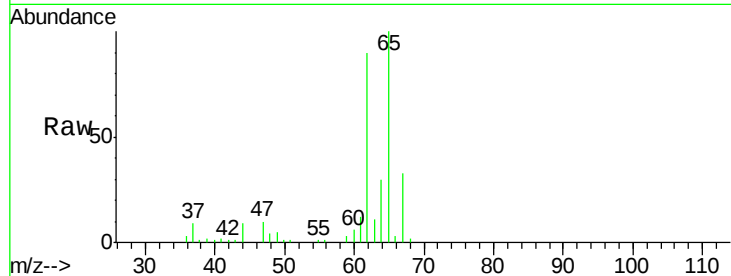
64 33.2 23.7 44.1

Manual Integrations

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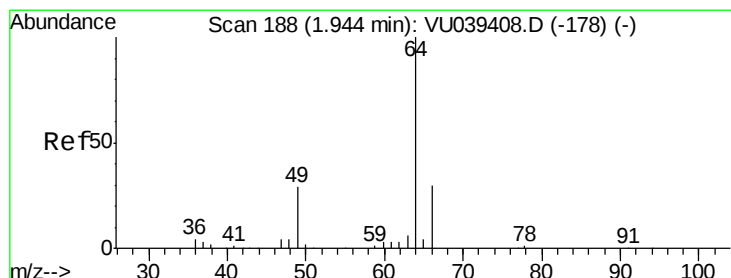
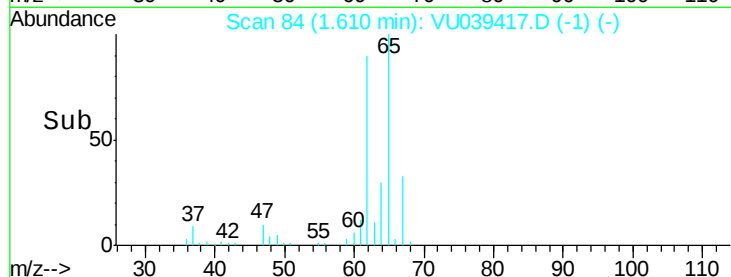
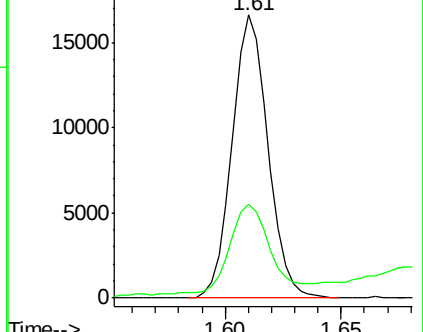
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Abundance Ion 62.00 (61.70 to 62.70): VU039417.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU039417.D (-1) (-)



#8

Chloroethane

Concen: 9.631 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU039417.D

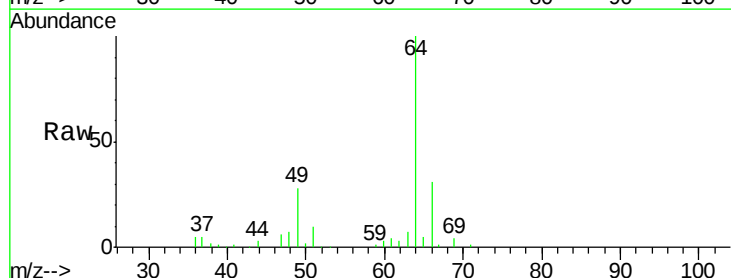
Acq: 10 Jul 2020 00:43

Tgt Ion: 64 Resp: 59566

Ion Ratio Lower Upper

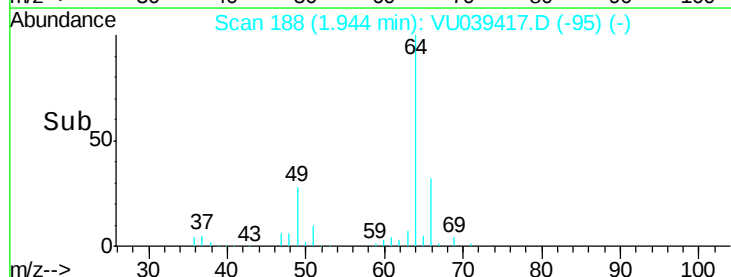
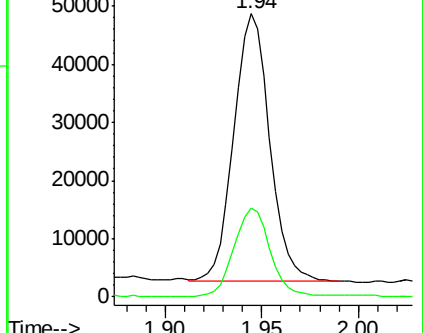
64 100

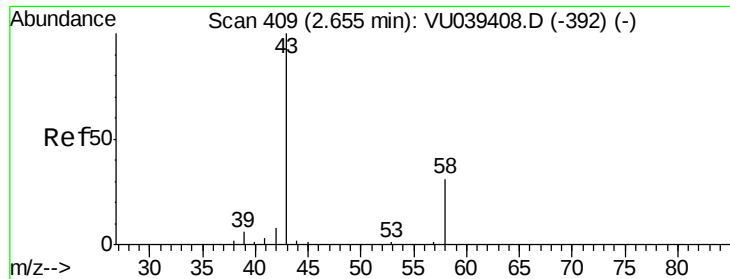
66 31.2 23.5 43.7



Abundance Ion 64.10 (63.80 to 64.80): VU039417.D (-95) (-)

Ion 66.05 (65.75 to 66.75): VU039417.D (-95) (-)





#13

Acetone

Concen: 17.398 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.02 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

Instrument :

MSVOA\_U

ClientSampleId :

BE504

Tot Ion: 43 Resp: 26145

Ion Ratio Lower Upper

43 100

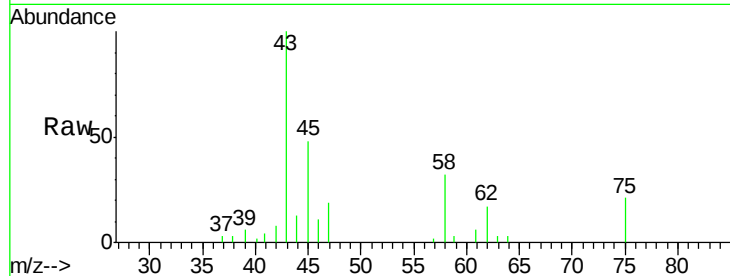
58 15.8 0.0 62.8

Manual Integrations

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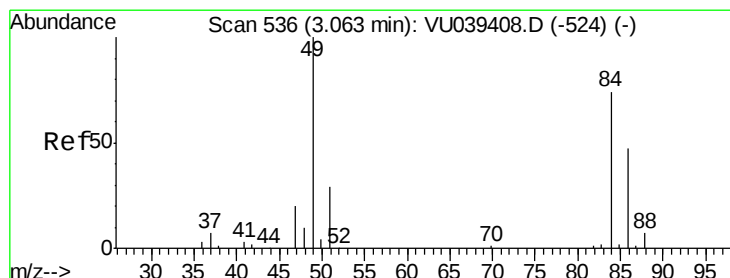
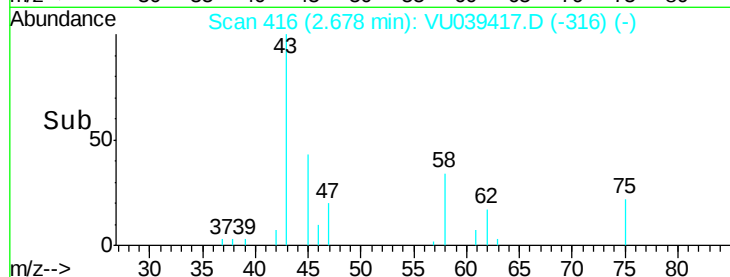
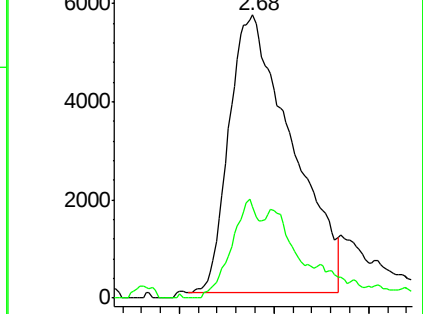
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Abundance Ion 43.05 (42.75 to 43.75): VU039417.D (-416) (-)

Ion 58.05 (57.75 to 58.75): VU039417.D (-416) (-)



#16

Methylene chloride

Concen: 0.079 ug/L

RT: 3.07 min Scan# 537

Delta R.T. 0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

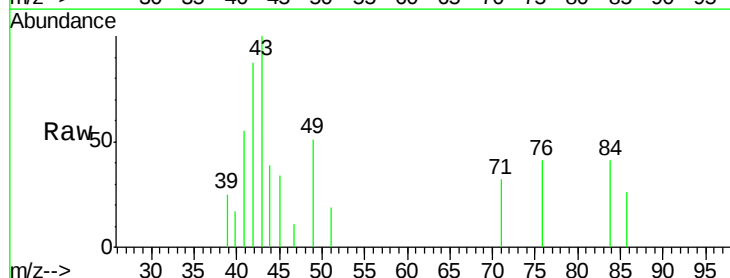
Tgt Ion: 84 Resp: 622

Ion Ratio Lower Upper

84 100

86 62.8 43.5 80.9

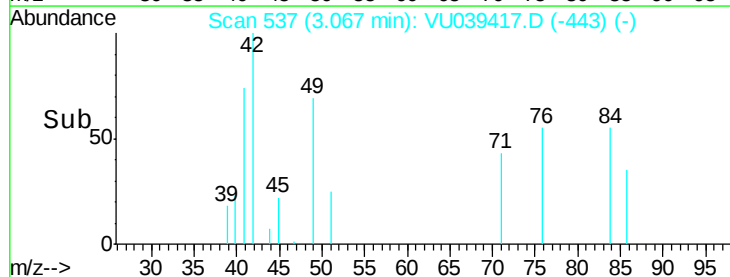
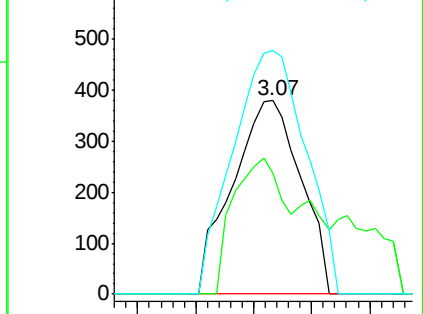
49 125.9 91.1 169.1

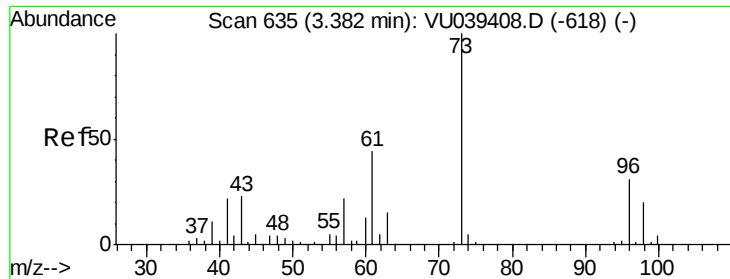


Abundance Ion 84.05 (83.75 to 84.75): VU039417.D (-443) (-)

Ion 86.00 (85.70 to 86.70): VU039417.D (-443) (-)

Ion 49.10 (48.80 to 49.80): VU039417.D (-443) (-)





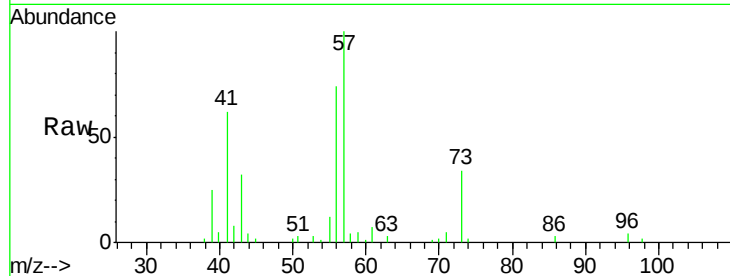
#17  
Methvl tert-butvl Ether  
Concen: 0.381 ug/L  
RT: 3.38 min Scan# 636  
Delta R.T. 0.00 min  
Lab File: VU039417.D  
Acq: 10 Jul 2020 00:43

Instrument :  
MSVOA\_U  
ClientSampled :  
BE504

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 91.5  | 18.6  | 28.0# |
| 57      | 276.8 | 17.9  | 26.9# |

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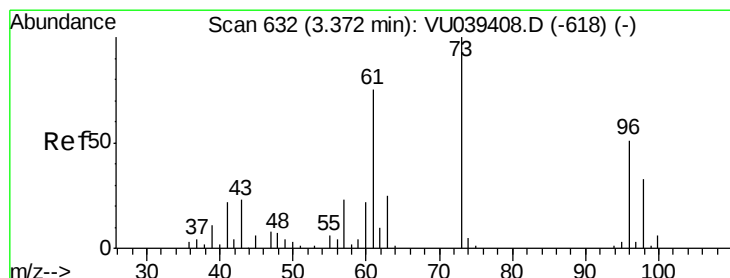
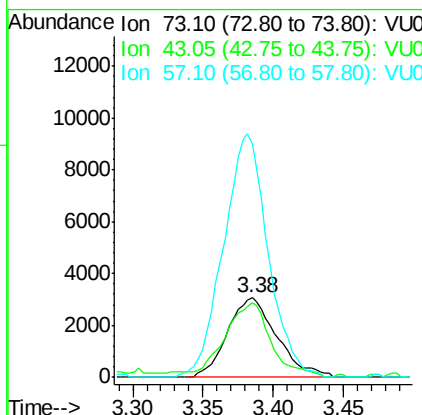
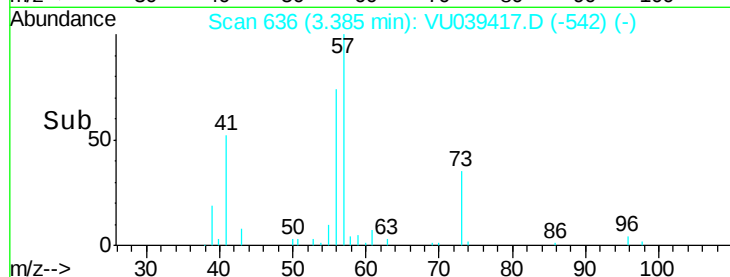


Abundance

Ion 73.10 (72.80 to 73.80): VU039417.D (-542) (-)

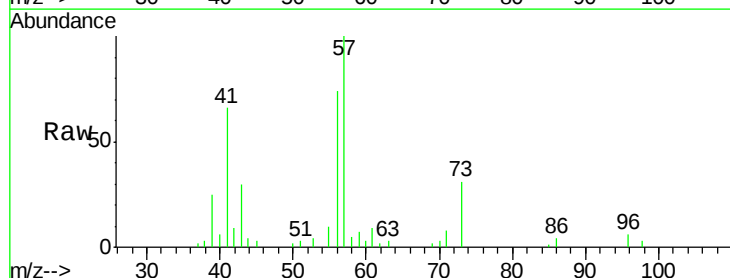
Ion 43.05 (42.75 to 43.75): VU039417.D (-542) (-)

Ion 57.10 (56.80 to 57.80): VU039417.D (-542) (-)



#18  
trans-1,2-Dichloroethene  
Concen: 0.119 ug/L  
RT: 3.37 min Scan# 632  
Delta R.T. -0.00 min  
Lab File: VU039417.D  
Acq: 10 Jul 2020 00:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 152.8 | 102.1 | 189.5 |
| 98      | 51.2  | 42.5  | 78.9  |

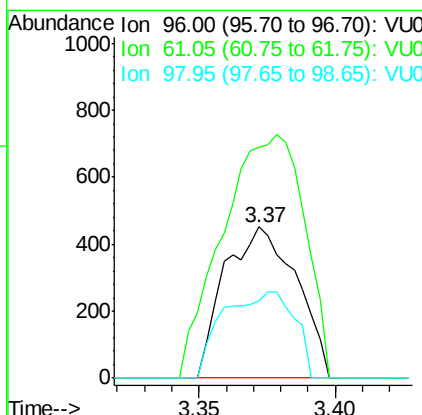
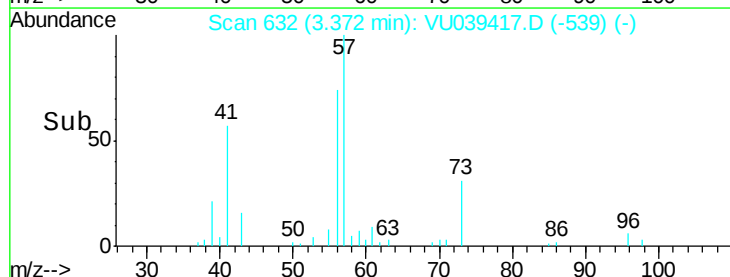


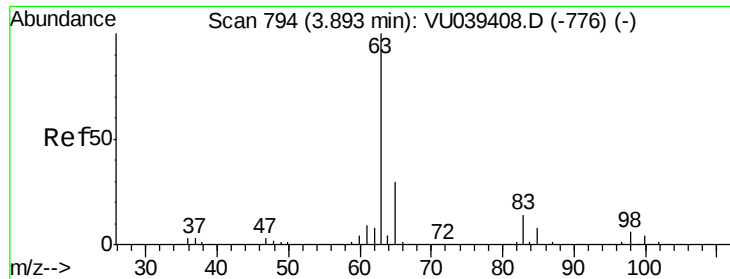
Abundance

Ion 96.00 (95.70 to 96.70): VU039417.D (-539) (-)

Ion 61.05 (60.75 to 61.75): VU039417.D (-539) (-)

Ion 97.95 (97.65 to 98.65): VU039417.D (-539) (-)





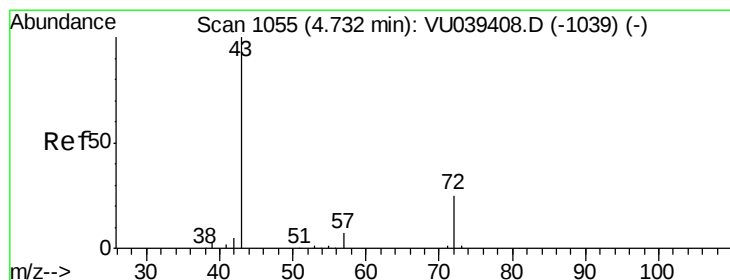
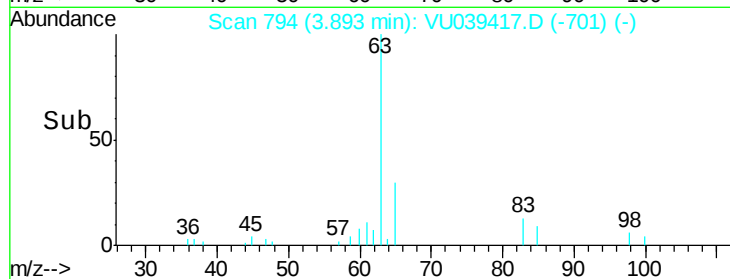
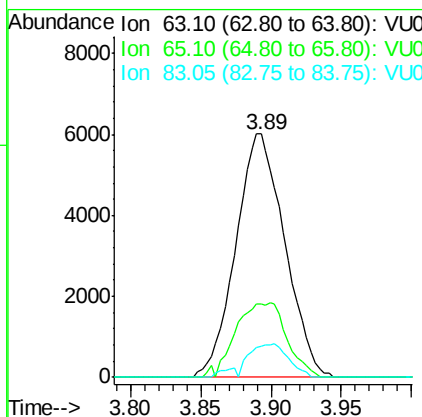
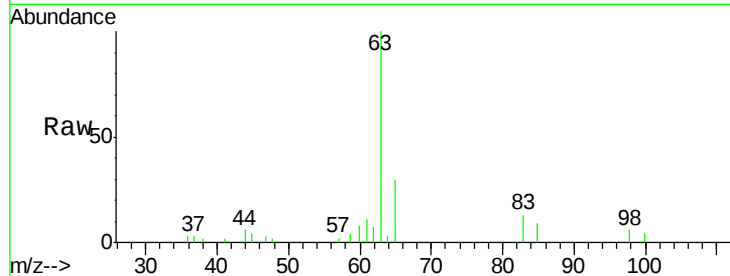
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 1,1-Dichloroethane  
 Concen: 1.075 ug/L  
 RT: 3.89 min Scan# 794  
 Delta R.T. -0.00 min  
 Lab File: VU039417.D  
 Acq: 10 Jul 2020 00:43

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BE504

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 29.9  | 23.0  | 42.6  |
| 83      | 12.9  | 9.6   | 17.8  |

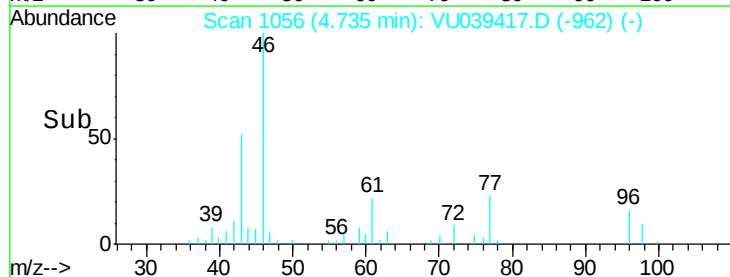
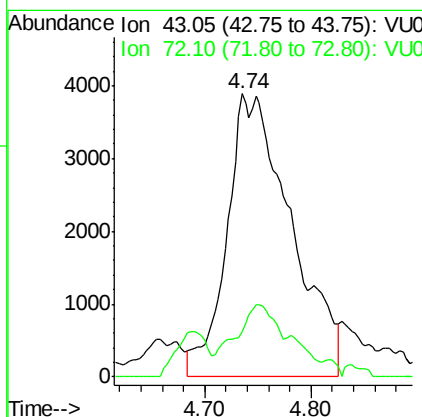
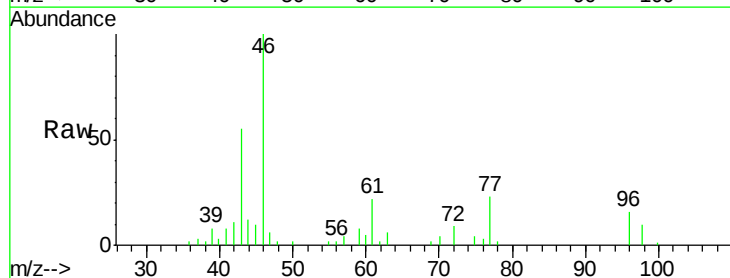
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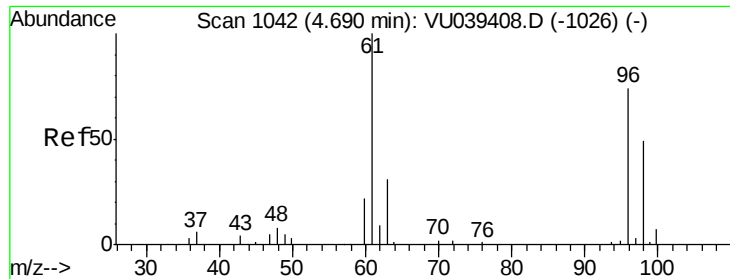
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 7/13/2020 10:49:53 AM



#21  
 2-Butanone  
 Concen: 6.057 ug/L m  
 RT: 4.74 min Scan# 1056  
 Delta R.T. 0.00 min  
 Lab File: VU039417.D  
 Acq: 10 Jul 2020 00:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 10.7  | 13.2  | 39.5# |





#22

cis-1,2-Dichloroethene

Concen: 14.126 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

Instrument :

MSVOA\_U

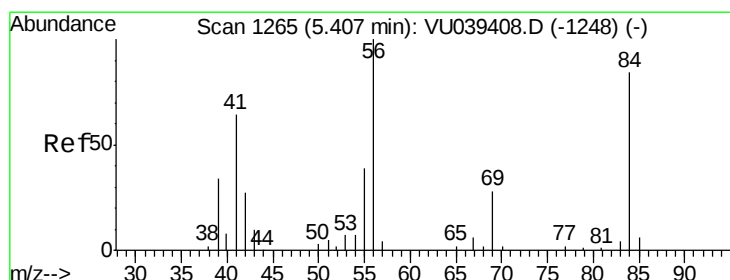
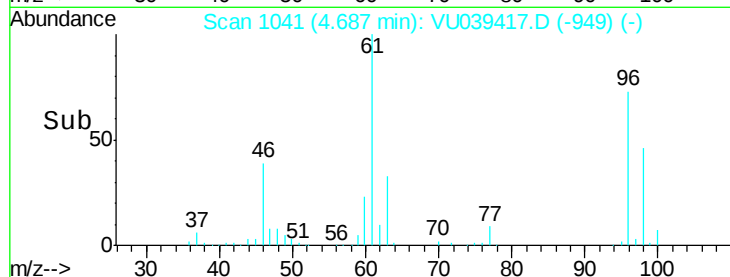
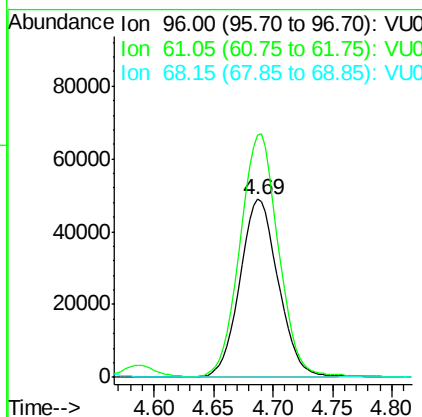
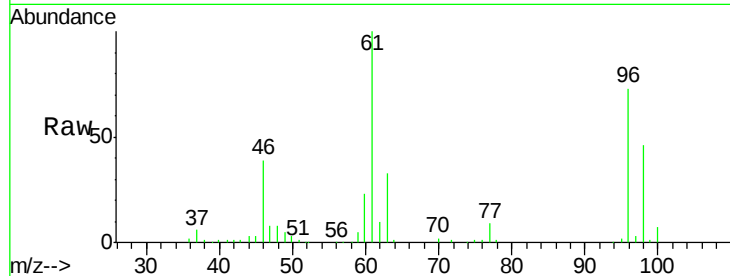
ClientSampled :

BE504

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 96    | Resp: | 109480 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 136.2 | 92.8  | 172.4  |
| 68       | 0.0   | 0.0   | 0.0    |

Manual Integrations  
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#30

Cyclohexane

Concen: 0.770 ug/L

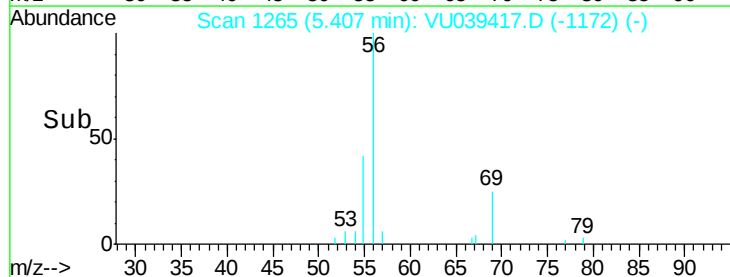
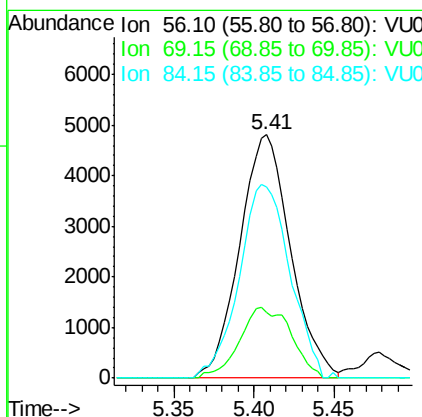
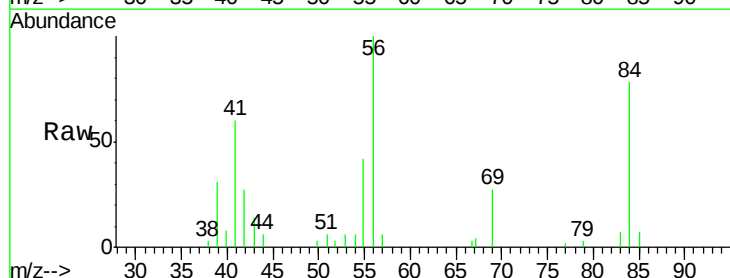
RT: 5.41 min Scan# 1265

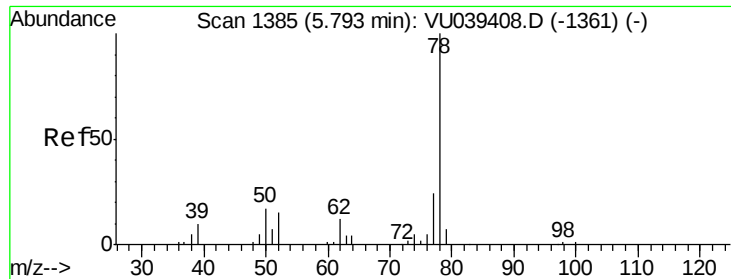
Delta R.T. -0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 10480 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 29.5  | 24.1  | 36.1  |
| 84       | 79.1  | 67.0  | 100.6 |





#33

Benzene

Concen: 294.643 ug/L

RT: 5.80 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

Instrument :

MSVOA\_U

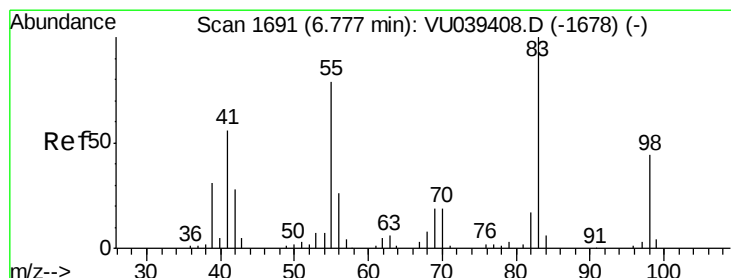
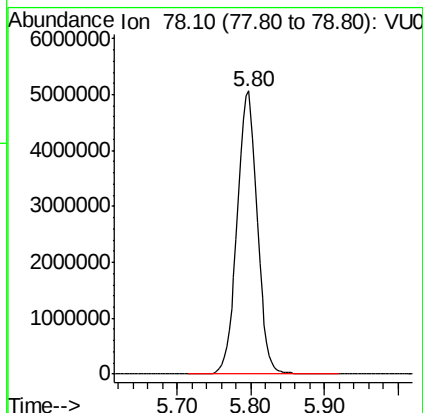
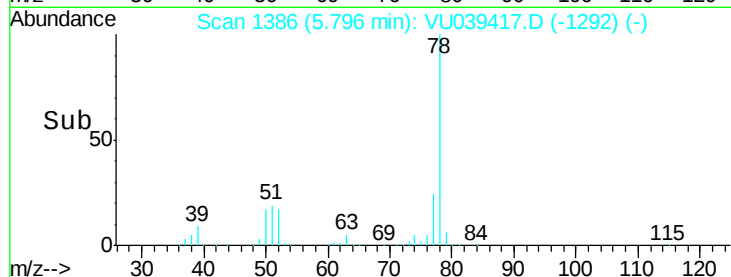
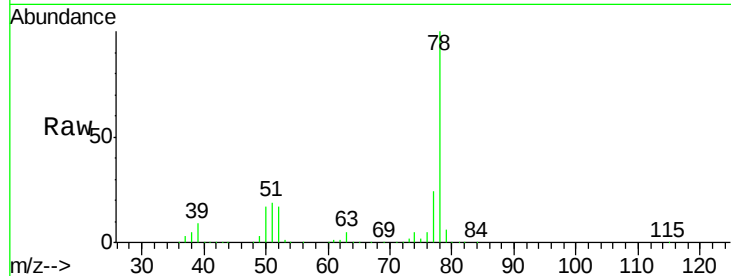
ClientSampleId :

BE504

Tgt Ion: 78 Resp: 9670184

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#35

Methylcyclohexane

Concen: 0.645 ug/L

RT: 6.77 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

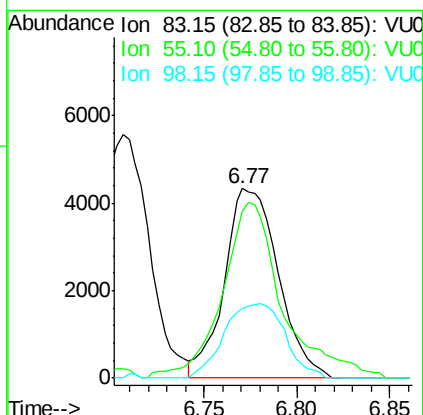
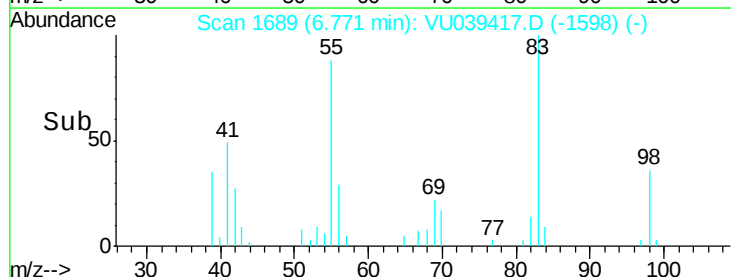
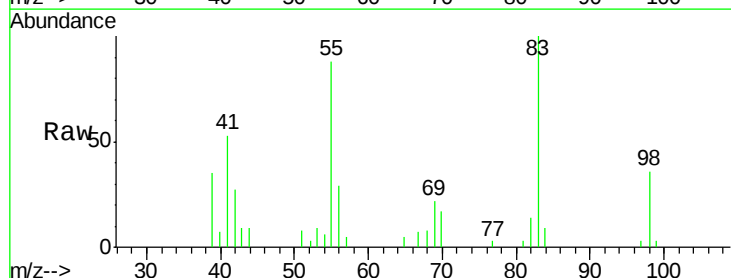
Tgt Ion: 83 Resp: 8767

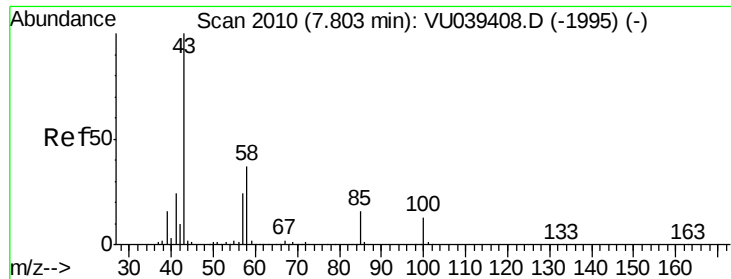
Ion Ratio Lower Upper

83 100

55 103.3 62.1 93.1#

98 44.4 35.9 53.9





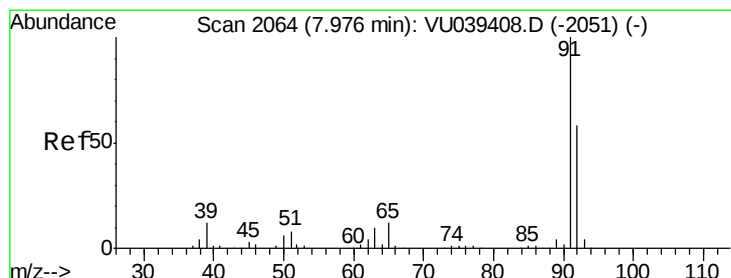
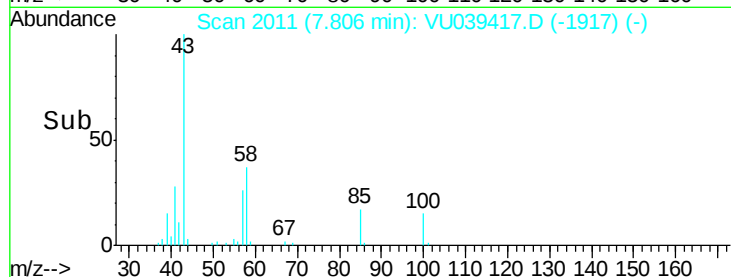
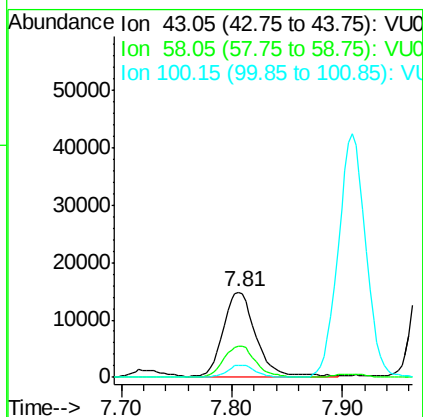
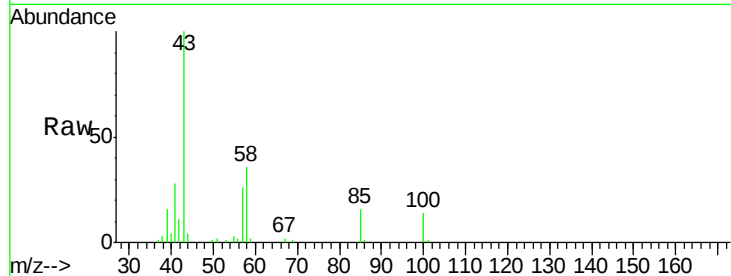
#40  
4-Methyl-2-pentanone  
Concen: 4.022 ug/L  
RT: 7.81 min Scan# 2011  
Delta R.T. 0.00 min  
Lab File: VU039417.D  
Acq: 10 Jul 2020 00:43

Instrument :  
MSVOA\_U  
ClientSampleId :  
BE504

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 36.3  | 30.5  | 45.7  |
| 100     | 12.2  | 10.3  | 15.5  |

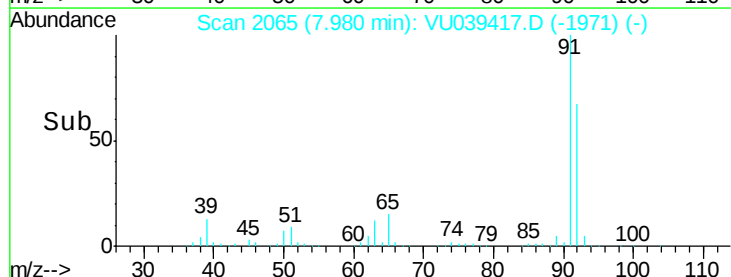
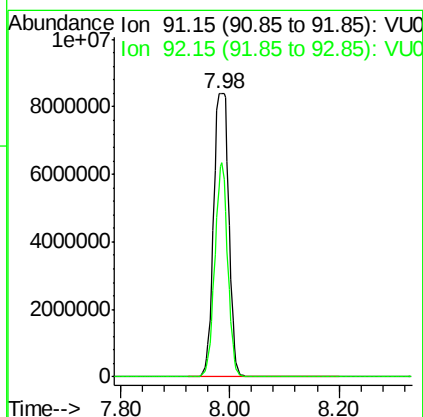
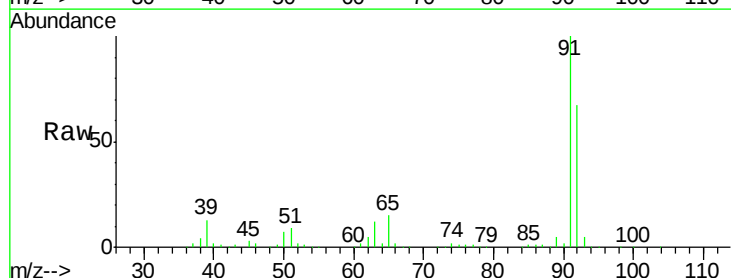
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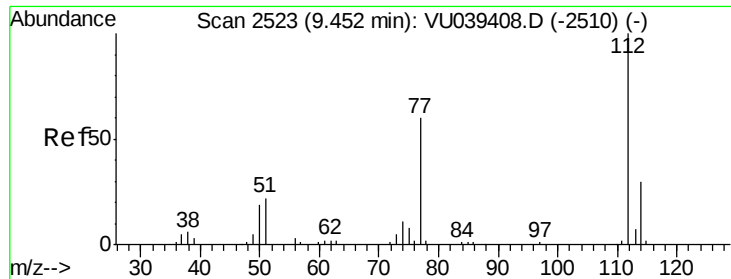
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#42  
Toluene  
Concen: 463.790 ug/L  
RT: 7.98 min Scan# 2065  
Delta R.T. 0.00 min  
Lab File: VU039417.D  
Acq: 10 Jul 2020 00:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 67.1  | 39.3  | 73.1  |





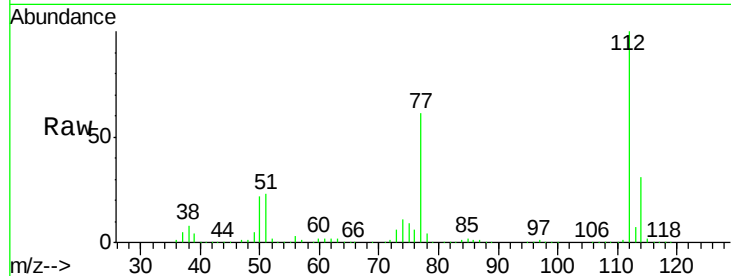
#51  
Chlorobenzene  
Concen: 62.098 ug/L  
RT: 9.45 min Scan# 2523  
Delta R.T. -0.00 min  
Lab File: VU039417.D  
Acq: 10 Jul 2020 00:43

Instrument :  
MSVOA\_U  
ClientSampleId :  
BE504

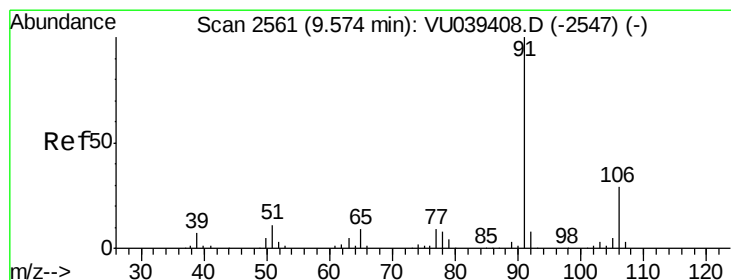
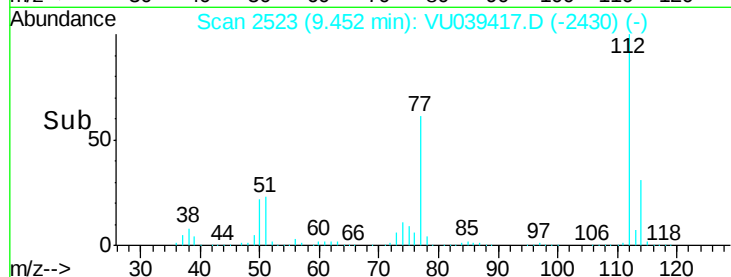
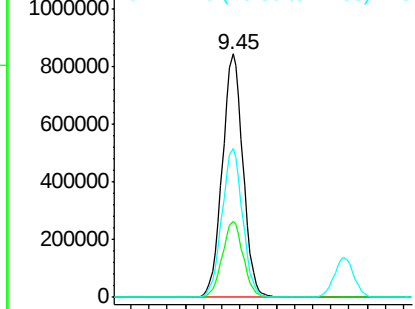
Tot Ion: 112 Resp: 1333582  
Ion Ratio Lower Upper  
112 100  
114 31.4 22.1 41.1  
77 60.9 49.9 74.9

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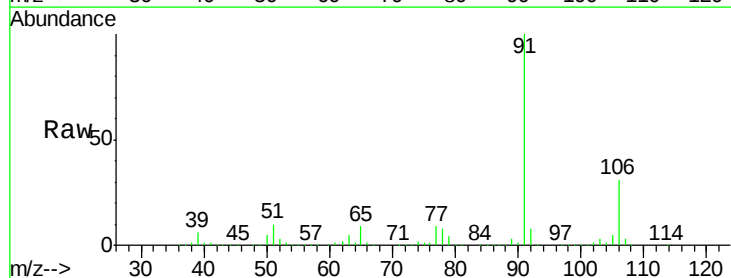


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 114.05 (113.75 to 114.75): V  
Ion 77.10 (76.80 to 77.80): V

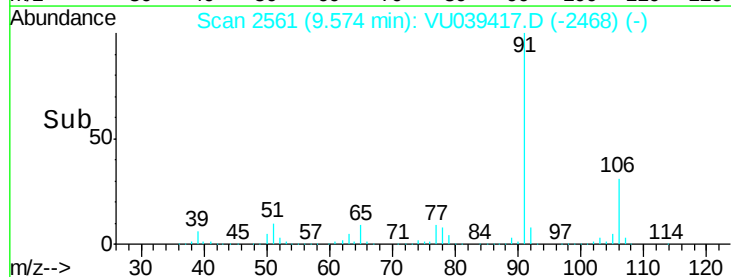
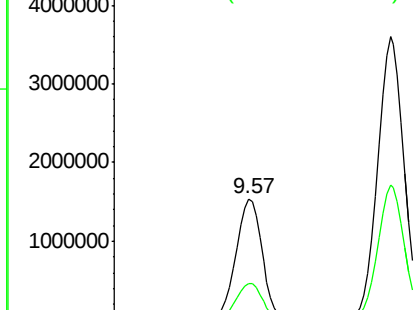


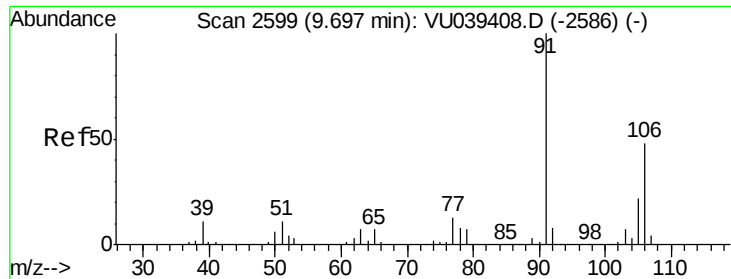
#52  
Ethylbenzene  
Concen: 61.608 ug/L  
RT: 9.57 min Scan# 2561  
Delta R.T. -0.00 min  
Lab File: VU039417.D  
Acq: 10 Jul 2020 00:43

Tgt Ion: 91 Resp: 2392909  
Ion Ratio Lower Upper  
91 100  
106 30.5 21.3 39.6



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





#53

m,p-Xylene

Concen: 188.507 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. -0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

Instrument :

MSVOA\_U

ClientSampled :

BE504

Tot Ion:106 Resp: 2758752

Ion Ratio Lower Upper

106 100

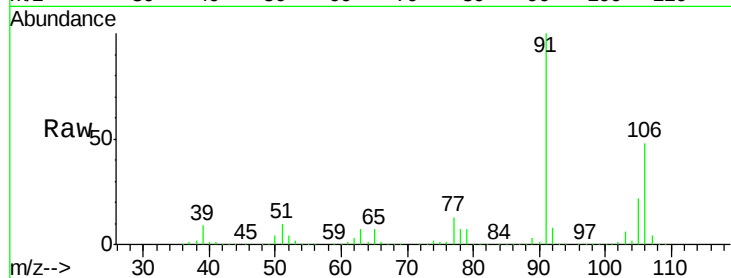
91 209.5 144.0 267.4

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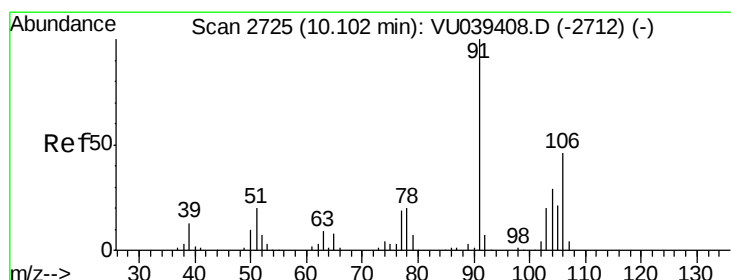
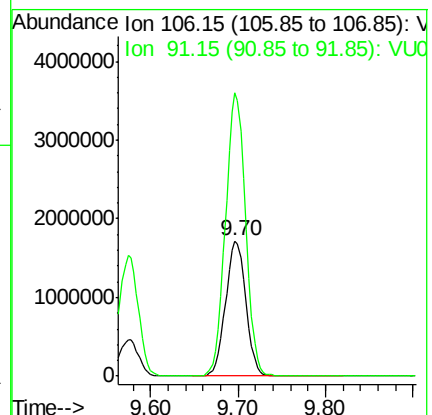
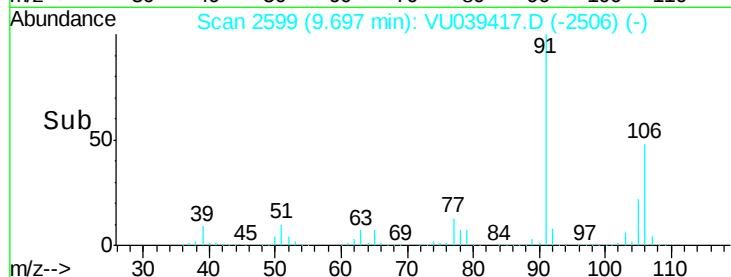
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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 58.581 ug/L

RT: 10.10 min Scan# 2726

Delta R.T. 0.00 min

Lab File: VU039417.D

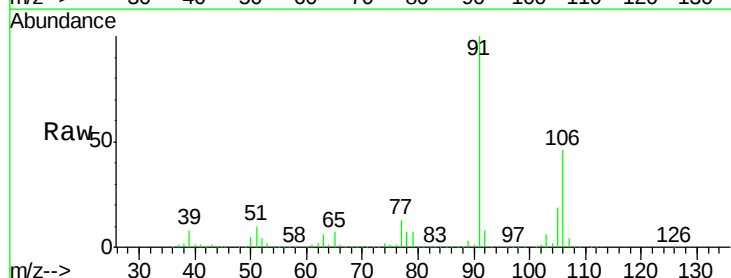
Acq: 10 Jul 2020 00:43

Tgt Ion:106 Resp: 834615

Ion Ratio Lower Upper

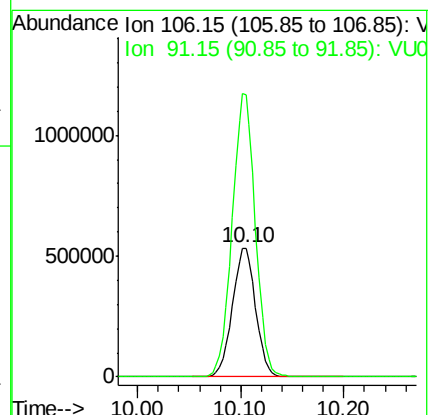
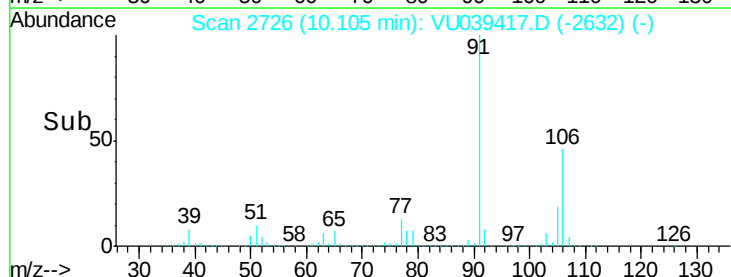
106 100

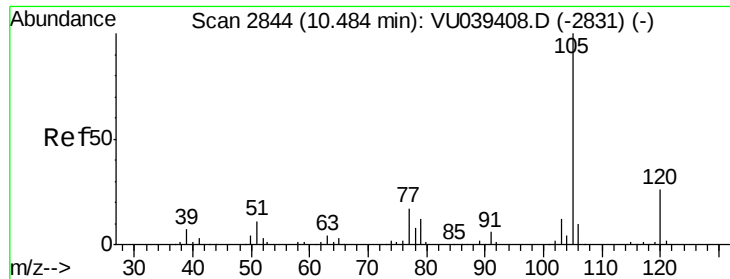
91 218.1 154.6 287.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 10.908 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

Instrument :

MSVOA\_U

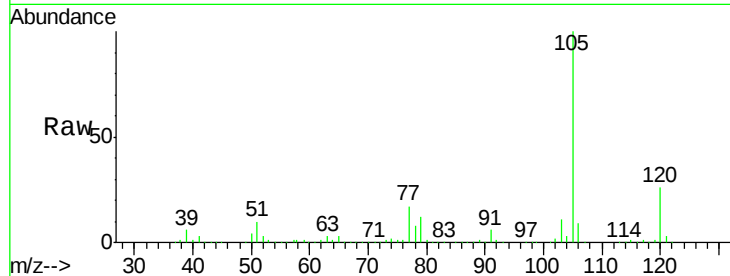
ClientSampled :

BE504

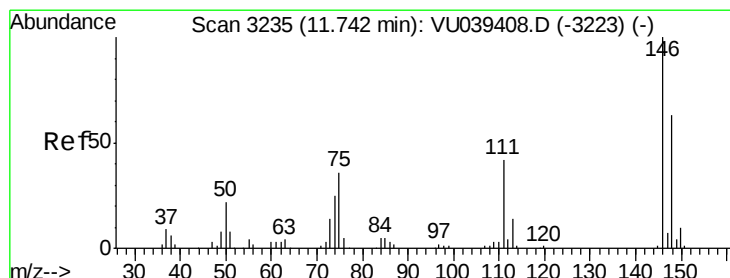
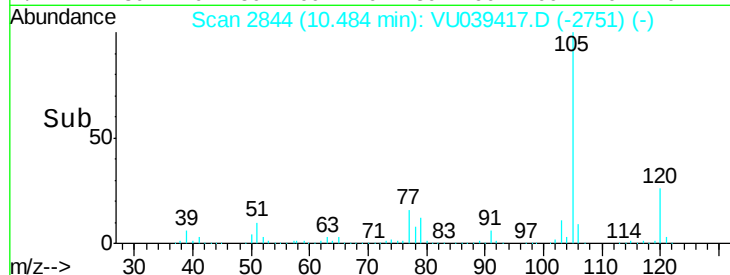
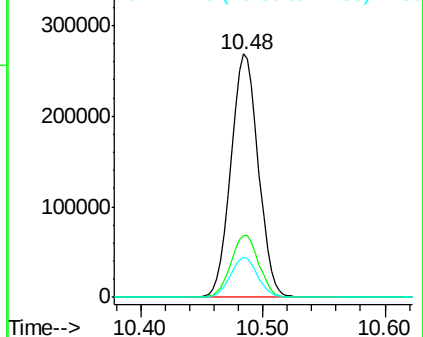
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 105  | Resp: | 420280 |
| Ion Ratio |      | Lower | Upper  |
| 105       | 100  |       |        |
| 120       | 26.0 | 20.7  | 31.1   |
| 77        | 16.5 | 13.9  | 20.9   |

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Abundance Ion 105.05 (104.75 to 105.75): V  
Ion 120.10 (119.80 to 120.80): V  
Ion 77.10 (76.80 to 77.80): V



#62

1,3-Dichlorobenzene

Concen: 0.616 ug/L

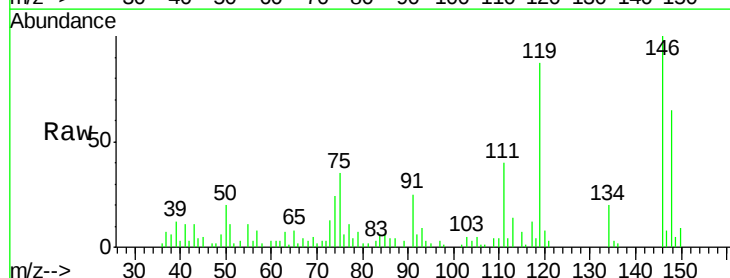
RT: 11.74 min Scan# 3235

Delta R.T. -0.00 min

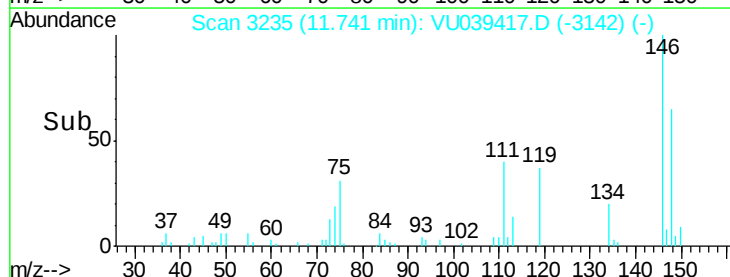
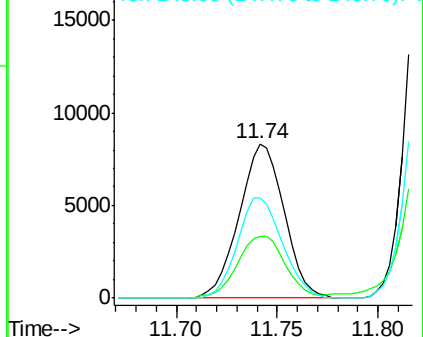
Lab File: VU039417.D

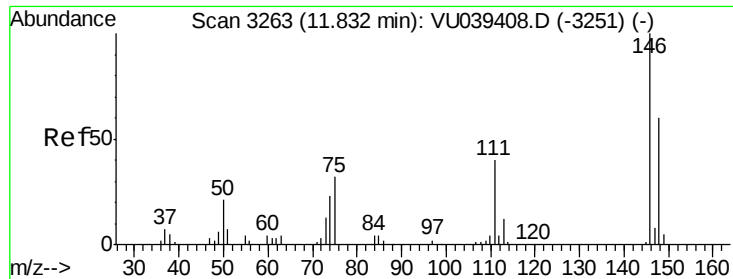
Acq: 10 Jul 2020 00:43

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 146  | Resp: | 12979 |
| Ion Ratio |      | Lower | Upper |
| 146       | 100  |       |       |
| 111       | 40.2 | 29.0  | 53.8  |
| 148       | 65.1 | 43.5  | 80.9  |



Abundance Ion 145.95 (145.65 to 146.65): V  
Ion 111.00 (110.70 to 111.70): V  
Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 3.626 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. -0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

Instrument :

MSVOA\_U

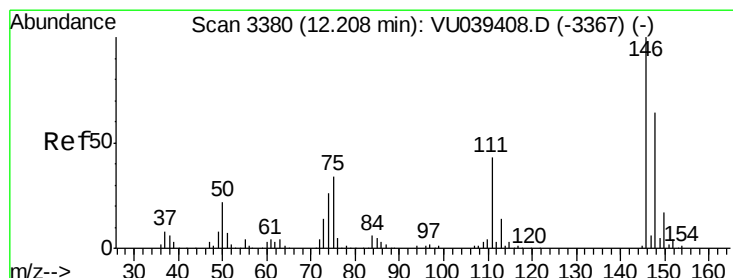
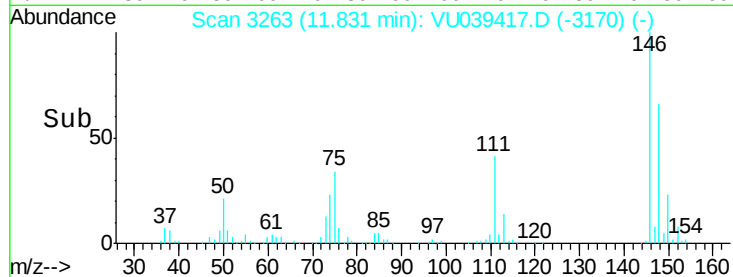
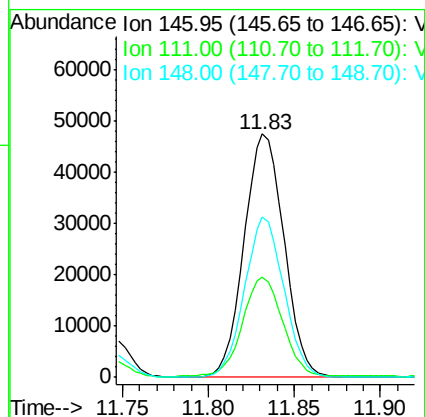
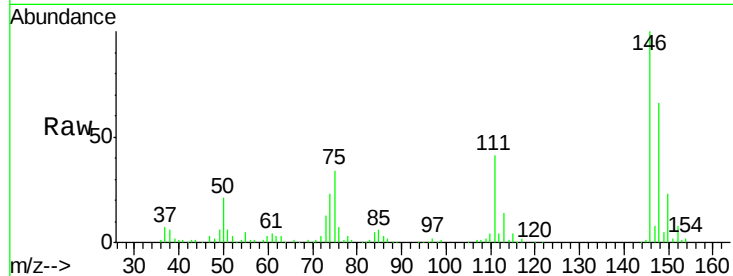
ClientSampleId :

BE504

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 76619 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 41.3  | 28.6  | 53.0  |
| 148      | 65.7  | 45.0  | 83.6  |

Manual Integrations  
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#65

1,2-Dichlorobenzene

Concen: 4.591 ug/L

RT: 12.21 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VU039417.D

Acq: 10 Jul 2020 00:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 96939 |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 43.1  | 35.0  | 52.4  |
| 148      | 63.6  | 50.6  | 75.8  |

