

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100821\  
 Data File : VU045251.D  
 Acq On : 08 Oct 2021 15:05  
 Operator : SY/MD  
 Sample : M4024-15DL 5X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AM3DL

Manual Integrations  
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 10/12/2021 2:44:01 PM

Quant Time: Oct 09 05:31:54 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 09 05:29:23 2021  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| -----                         |                |      |            |         |       |          |
| Internal Standards            |                |      |            |         |       |          |
| 1) 1,4-Difluorobenzene        | 6.253          | 114  | 276678     | 50.000  | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.420          | 117  | 268342     | 50.000  | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.816         | 152  | 122269     | 50.000  | ug/L  | 0.00     |
|                               |                |      |            |         |       |          |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 4) Vinyl Chloride-d3          | 1.601          | 65   | 142105     | 46.918  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 93.840% |       |          |
| 7) Chloroethane-d5            | 1.893          | 69   | 112126     | 46.717  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 93.440% |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.562          | 63   | 167612     | 32.953  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 65.900% |       |          |
| 21) 2-Butanone-d5             | 4.626          | 46   | 203618     | 85.036  | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 85.040% |       |          |
| 24) Chloroform-d              | 5.067          | 84   | 211384     | 44.188  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 88.380% |       |          |
| 26) 1,2-Dichloroethane-d4     | 5.706          | 65   | 147797     | 45.612  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 91.220% |       |          |
| 32) Benzene-d6                | 5.732          | 84   | 442072     | 47.477  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 94.960% |       |          |
| 36) 1,2-Dichloropropane-d6    | 6.694          | 67   | 142267     | 46.858  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 93.720% |       |          |
| 41) Toluene-d8                | 7.903          | 98   | 378815     | 47.142  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 94.280% |       |          |
| 43) trans-1,3-Dichloroprop... | 8.182          | 79   | 62425      | 46.222  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 92.440% |       |          |
| 47) 2-Hexanone-d5             | 8.636          | 63   | 142127     | 84.472  | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 84.470% |       |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.761         | 84   | 217033     | 45.906  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 91.820% |       |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195         | 152  | 131435     | 49.395  | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 98.780% |       |          |
|                               |                |      |            |         |       |          |
| Target Compounds              |                |      |            |         |       | Qvalue   |
| 5) Vinyl chloride             | 1.604          | 62   | 148301     | 45.840  | ug/L  | # 56     |
| 8) Chloroethane               | 1.919          | 64   | 16646m     | 8.198   | ug/L  |          |
| 19) 1,1-Dichloroethane        | 3.874          | 63   | 18525      | 3.945   | ug/L  | 95       |
| 20) cis-1,2-Dichloroethene    | 4.671          | 96   | 75271      | 30.265  | ug/L  | 92       |
| 42) Toluene                   | 7.973          | 91   | 21374      | 2.114   | ug/L  | 100      |
| 52) Ethylbenzene              | 9.574          | 91   | 98111      | 9.184   | ug/L  | 99       |
| 53) m,p-Xylene                | 9.693          | 106  | 101280     | 25.027  | ug/L  | 99       |
| 54) o-xylene                  | 10.105         | 106  | 22932      | 5.767   | ug/L  | 96       |
| 61) Isopropylbenzene          | 10.488         | 105  | 11618      | 1.298   | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.472         | 105  | 4600       | 0.601   | ug/L  | 93       |
| -----                         |                |      |            |         |       |          |

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

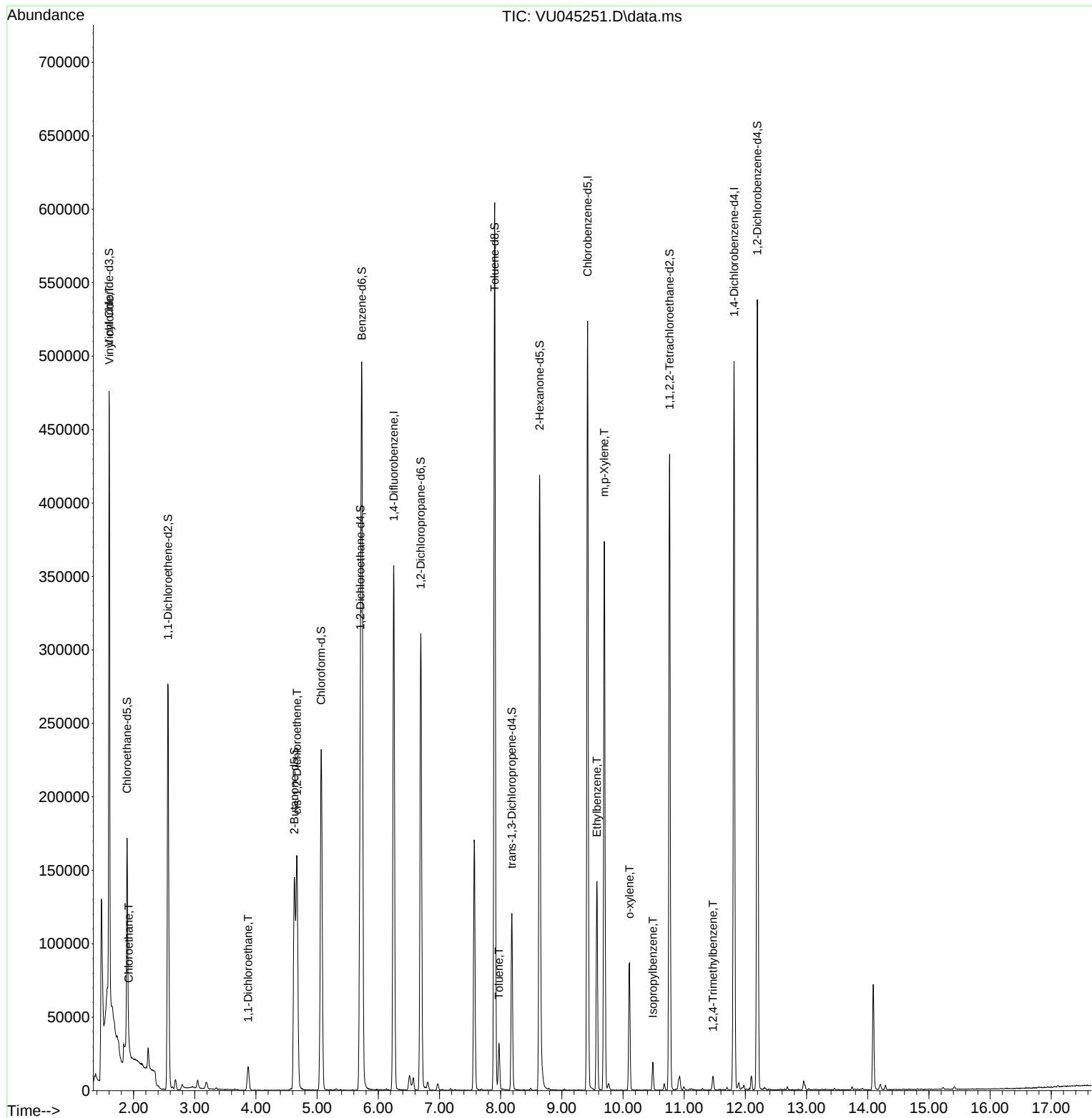
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100821\  
Data File : VU045251.D  
Acq On : 08 Oct 2021 15:05  
Operator : SY/MD  
Sample : M4024-15DL 5X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 15 Sample Multiplier: 1

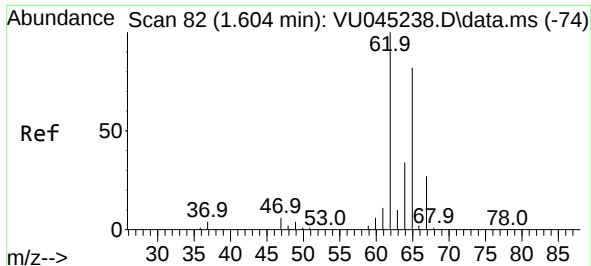
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AM3DL

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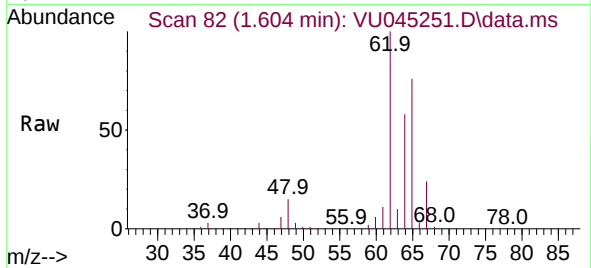
Quant Time: Oct 09 05:31:54 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092321WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Oct 09 05:29:23 2021  
Response via : Initial Calibration





#5  
 Vinyl chloride  
 Concen: 45.840 ug/L  
 RT: 1.604 min Scan# 82  
 Delta R.T. 0.000 min  
 Lab File: VU045251.D  
 Acq: 08 Oct 2021 15:05

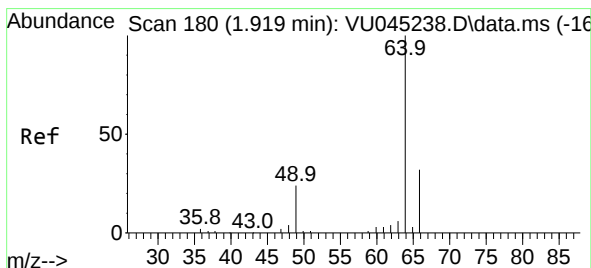
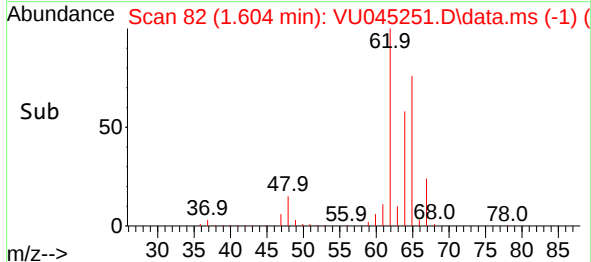
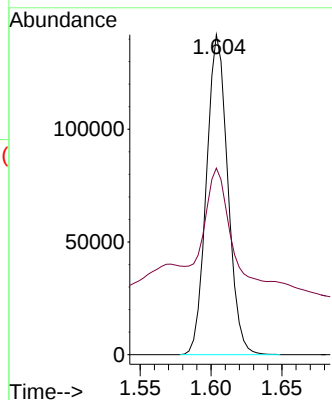
Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 C0AM3DL



Tgt Ion: 62 Resp: 148301  
 Ion Ratio Lower Upper  
 62 100  
 64 58.3 23.4 43.6#

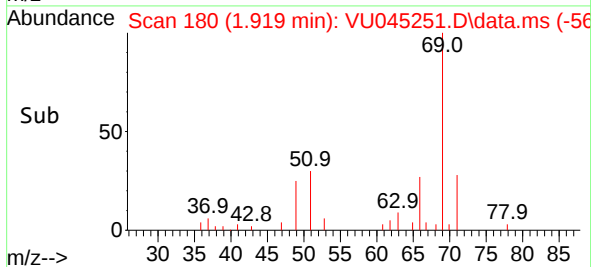
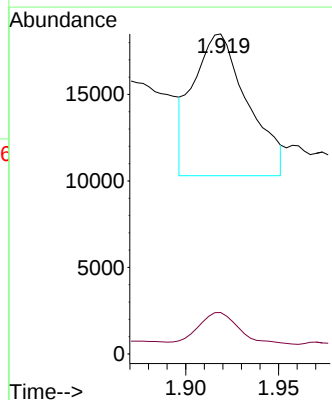
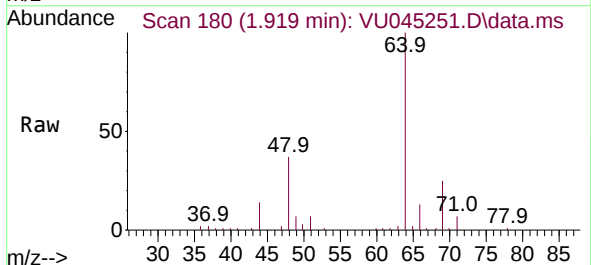
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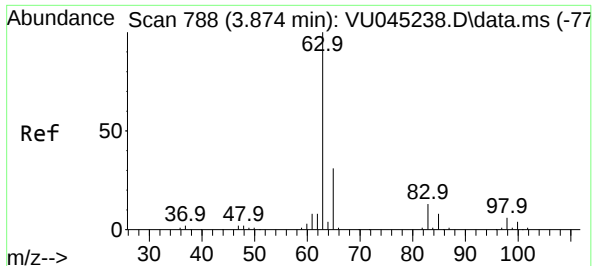
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#8  
 Chloroethane  
 Concen: 8.198 ug/L m  
 RT: 1.919 min Scan# 180  
 Delta R.T. 0.000 min  
 Lab File: VU045251.D  
 Acq: 08 Oct 2021 15:05

Tgt Ion: 64 Resp: 16646  
 Ion Ratio Lower Upper  
 64 100  
 66 12.9 22.3 41.3#





#19

1,1-Dichloroethane

Concen: 3.945 ug/L

RT: 3.874 min Scan# 788

Delta R.T. 0.000 min

Lab File: VU045251.D

Acq: 08 Oct 2021 15:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 18525 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 28.0  | 22.0  | 40.8  |
| 83       | 13.4  | 9.0   | 16.6  |

Instrument :

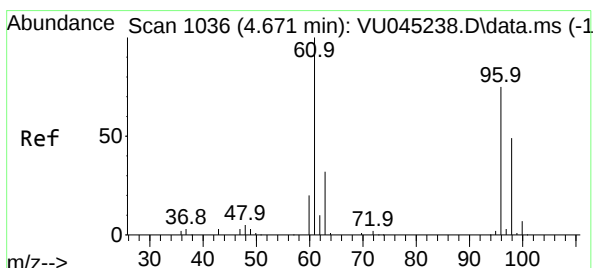
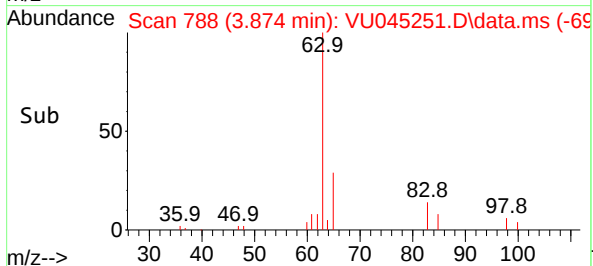
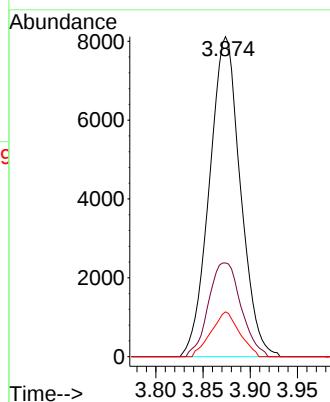
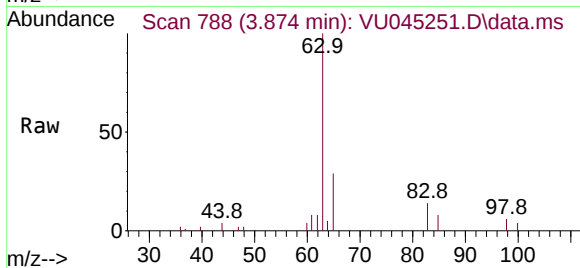
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ClientSampleId :

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#20

cis-1,2-Dichloroethene

Concen: 30.265 ug/L

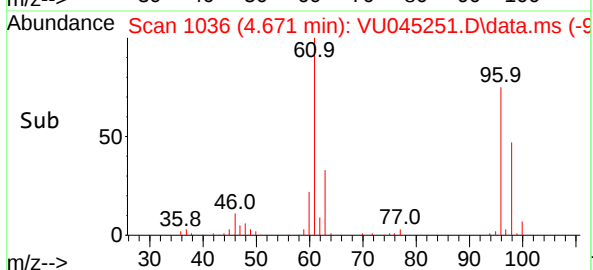
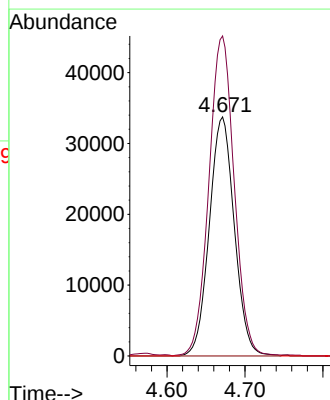
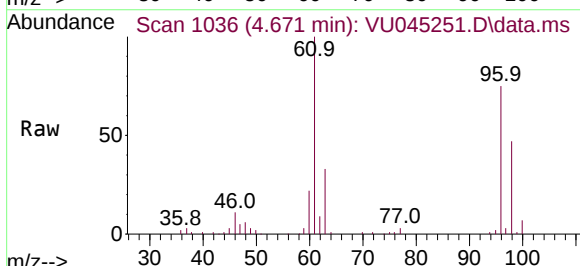
RT: 4.671 min Scan# 1036

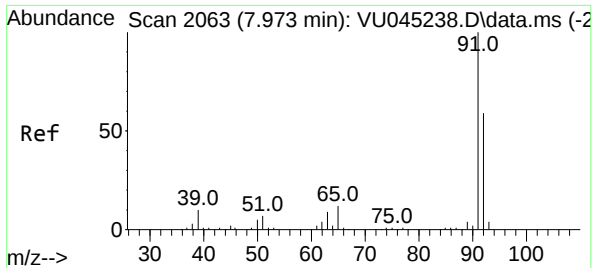
Delta R.T. 0.000 min

Lab File: VU045251.D

Acq: 08 Oct 2021 15:05

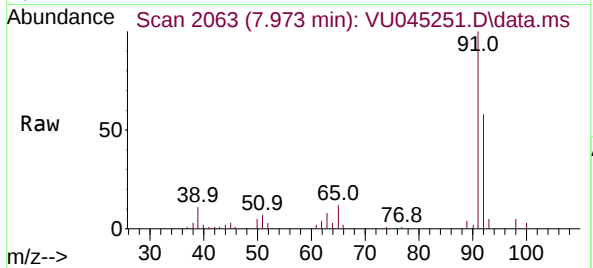
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 75271 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 133.8 | 100.2 | 186.0 |
| 68       | 0.0   | 0.0   | 0.0   |





#42  
Toluene  
Concen: 2.114 ug/L  
RT: 7.973 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: VU045251.D  
Acq: 08 Oct 2021 15:05

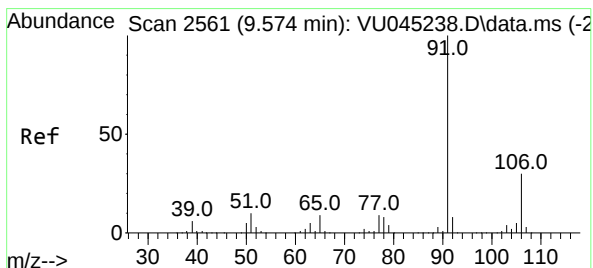
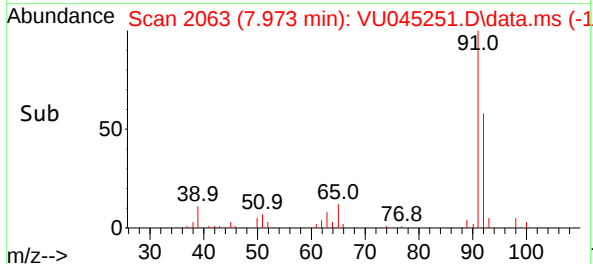
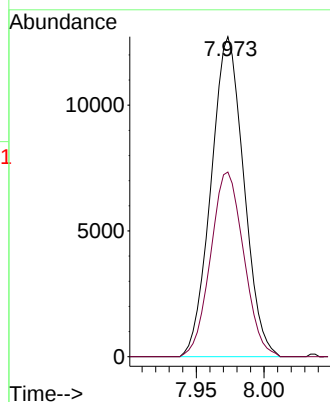
Instrument :  
MSVOA\_U  
ClientSampled :  
C0AM3DL



Tgt Ion: 91 Resp: 21374  
Ion Ratio Lower Upper  
91 100  
92 57.7 40.5 75.1

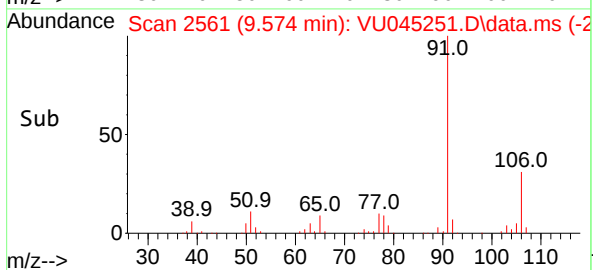
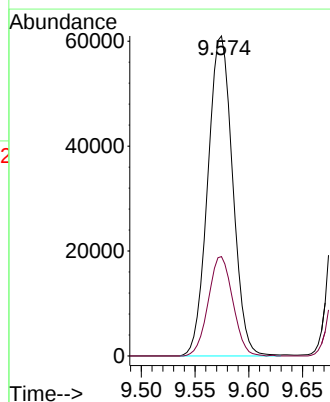
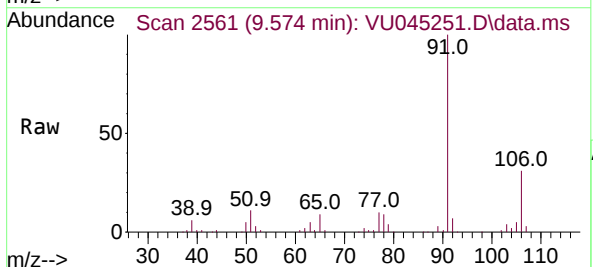
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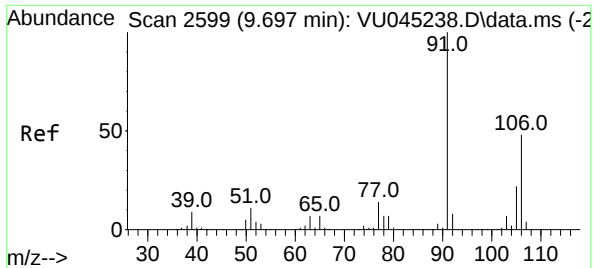
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#52  
Ethylbenzene  
Concen: 9.184 ug/L  
RT: 9.574 min Scan# 2561  
Delta R.T. 0.000 min  
Lab File: VU045251.D  
Acq: 08 Oct 2021 15:05

Tgt Ion: 91 Resp: 98111  
Ion Ratio Lower Upper  
91 100  
106 31.1 21.2 39.4





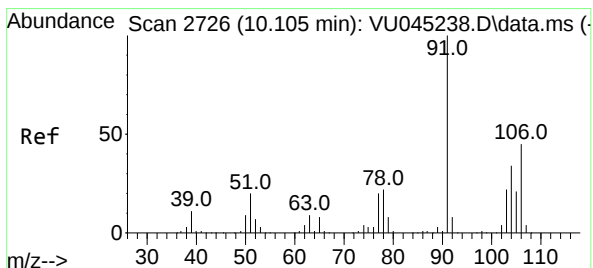
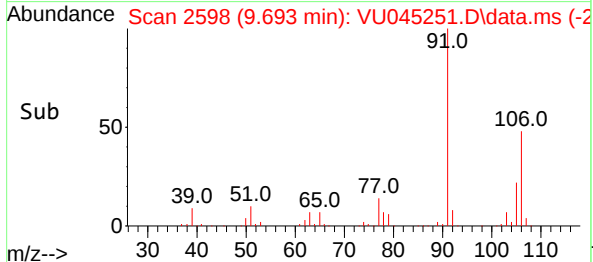
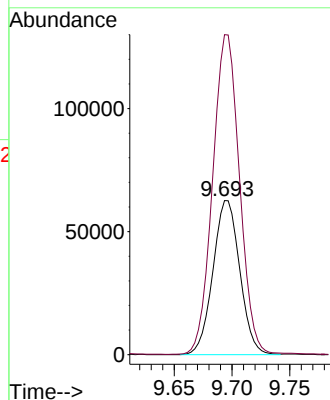
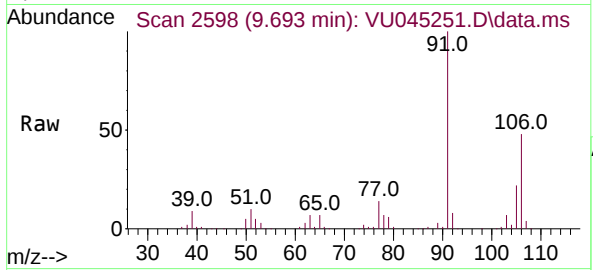
#53  
m,p-Xylene  
Concen: 25.027 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. -0.003 min  
Lab File: VU045251.D  
Acq: 08 Oct 2021 15:05

Tgt Ion:106 Resp: 101280  
Ion Ratio Lower Upper  
106 100  
91 207.6 146.7 272.4

Instrument :  
MSVOA\_U  
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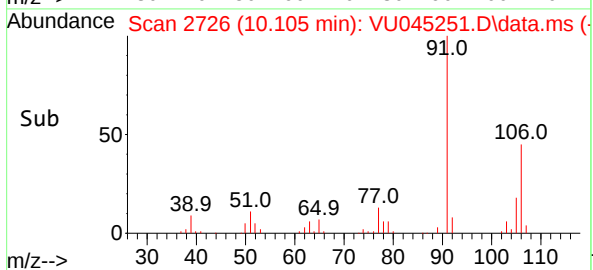
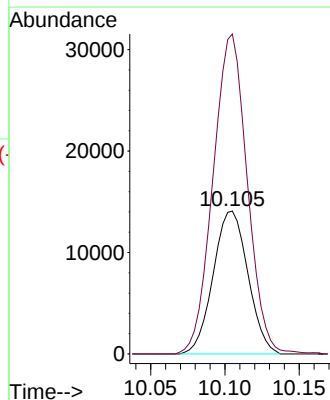
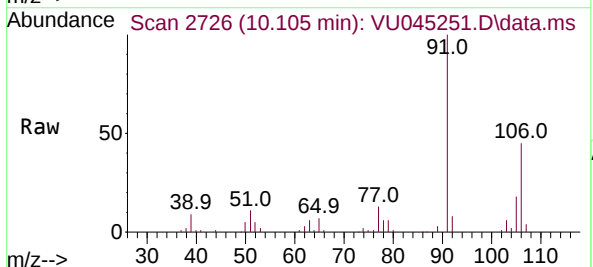
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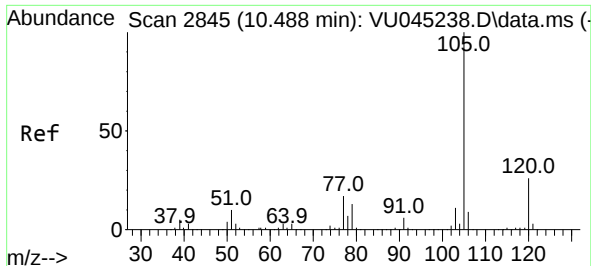
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#54  
o-xylene  
Concen: 5.767 ug/L  
RT: 10.105 min Scan# 2726  
Delta R.T. 0.000 min  
Lab File: VU045251.D  
Acq: 08 Oct 2021 15:05

Tgt Ion:106 Resp: 22932  
Ion Ratio Lower Upper  
106 100  
91 224.1 152.9 283.9





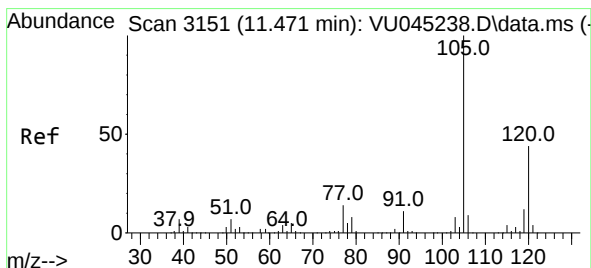
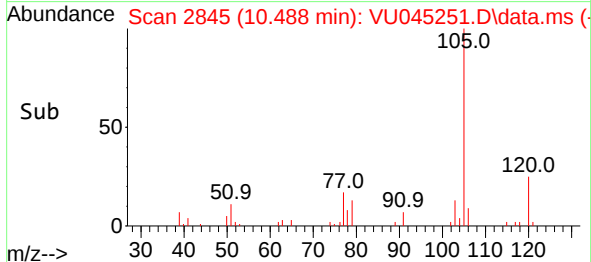
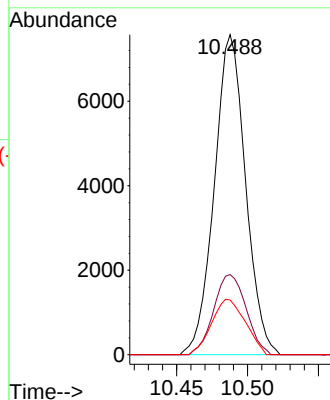
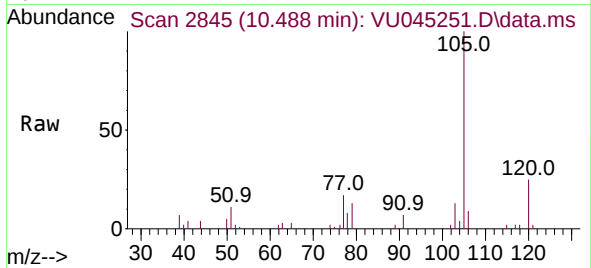
#61  
Isopropylbenzene  
Concen: 1.298 ug/L  
RT: 10.488 min Scan# 2845  
Delta R.T. 0.000 min  
Lab File: VU045251.D  
Acq: 08 Oct 2021 15:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 11618 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 26.1  | 20.5  | 30.7  |
| 77        | 18.7  | 13.5  | 20.3  |

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AM3DL

Manual Integrations  
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#63  
1,2,4-Trimethylbenzene  
Concen: 0.601 ug/L  
RT: 11.472 min Scan# 3151  
Delta R.T. 0.000 min  
Lab File: VU045251.D  
Acq: 08 Oct 2021 15:05

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 4600 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 40.2  | 35.7  | 53.5 |

