

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101024\  
 Data File : VU061091.D  
 Acq On : 10 Oct 2024 15:59  
 Operator : MD/SY  
 Sample : P4380-04  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E27H5

Quant Time: Oct 11 06:49:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR100124WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Oct 11 06:46:55 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.261  | 114   | 173093   | 5.000    | ug/L   | 0.02     |
| 28) Chlorobenzene-d5          | 9.415  | 117   | 158344   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.807 | 152   | 76892    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.599  | 65    | 41268    | 3.335    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 66.600%  |
| 7) Chloroethane-d5            | 1.923  | 69    | 34487    | 3.723    | ug/L   | 0.02     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 74.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.567  | 65    | 18673    | 3.420    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 68.400%  |
| 20) 2-Butanone-d5             | 4.727  | 46    | 105739   | 35.670   | ug/L   | 0.11     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 71.340%  |
| 24) Chloroform-d              | 5.078  | 84    | 86327    | 3.958    | ug/L   | 0.02     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 79.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.724  | 65    | 45911    | 3.971    | ug/L   | 0.03     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 79.400%  |
| 32) Benzene-d6                | 5.740  | 84    | 168357   | 4.032    | ug/L   | 0.02     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 80.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.701  | 67    | 57705    | 4.209    | ug/L   | 0.02     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 84.200%  |
| 41) Toluene-d8                | 7.901  | 98    | 154784   | 3.966    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 79.400%  |
| 43) trans-1,3-Dichloroprop... | 8.184  | 79    | 22230    | 3.792    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 75.800%  |
| 46) 2-Hexanone-d5             | 8.643  | 63    | 99968    | 41.197   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 82.400%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.749 | 84    | 41075    | 4.085    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 81.600%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187 | 152   | 54197    | 4.408    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 88.200%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.605  | 62    | 7287     | 0.596    | ug/L   | 90       |
| 13) Acetone                   | 2.747  | 43    | 21776    | 11.422   | ug/L   | 65       |
| 18) trans-1,2-Dichloroethene  | 3.351  | 96    | 7018     | 0.641    | ug/L   | 92       |
| 22) cis-1,2-Dichloroethene    | 4.676  | 96    | 133281   | 10.922   | ug/L   | 96       |
| 30) Cyclohexane               | 5.396  | 56    | 2295     | 0.112    | ug/L # | 80       |
| 33) Benzene                   | 5.792  | 78    | 30055    | 0.644    | ug/L   | 100      |
| 34) Trichloroethene           | 6.550  | 95    | 129290   | 10.218   | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.769  | 83    | 1680     | 0.082    | ug/L # | 58       |
| 42) Toluene                   | 7.968  | 91    | 1111181  | 22.345   | ug/L   | 99       |
| 47) Tetrachloroethene         | 8.553  | 164   | 2380270  | 289.035  | ug/L   | 95       |
| 52) Ethylbenzene              | 9.569  | 91    | 15328    | 0.272    | ug/L   | 97       |
| 53) m,p-Xylene                | 9.688  | 106   | 34716    | 1.689    | ug/L   | 90       |
| 54) o-Xylene                  | 10.097 | 106   | 15974    | 0.790    | ug/L   | 87       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105   | 19798    | 0.437    | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.463 | 105   | 33529    | 0.733    | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180   | 3576     | 0.301    | ug/L # | 91       |
| 72) 1,2,3-Trichlorobenzene    | 14.325 | 180   | 1578     | 0.159    | ug/L   | 95       |
| -----                         |        |       |          |          |        |          |

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Sample : P4380-04  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E27H5

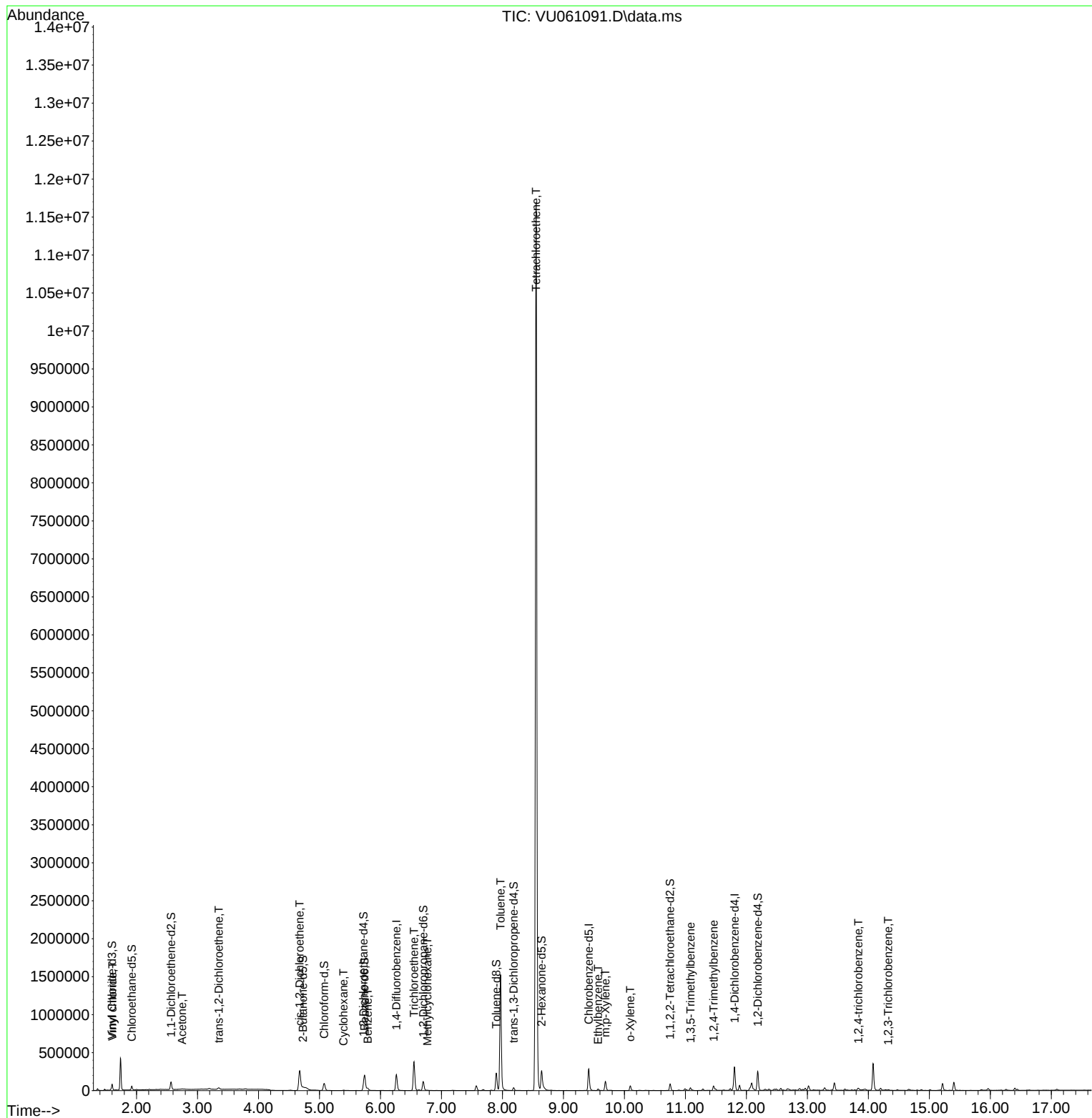
Quant Time: Oct 11 06:49:20 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR100124WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Oct 11 06:46:55 2024  
Response via : Initial Calibration

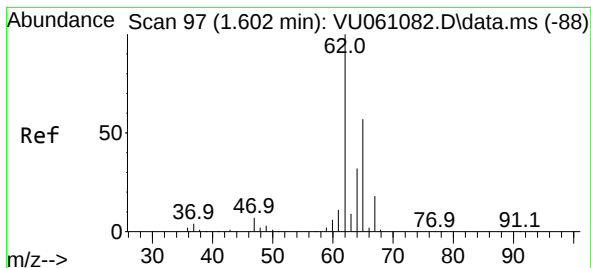
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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#5

Vinyl chloride

Concen: 0.596 ug/L

RT: 1.605 min Scan# 91

Delta R.T. 0.003 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA\_U

ClientSampleId :

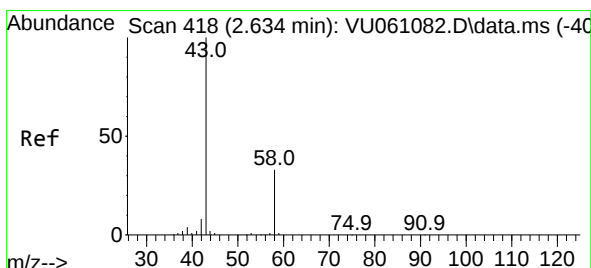
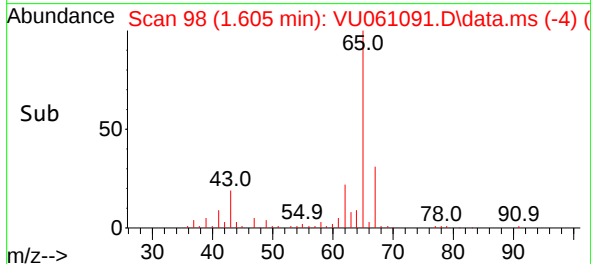
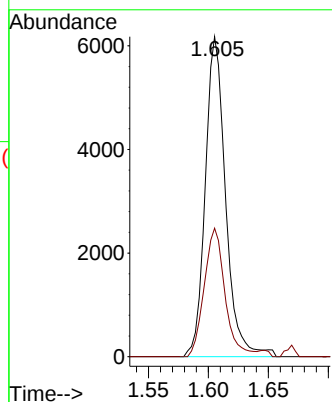
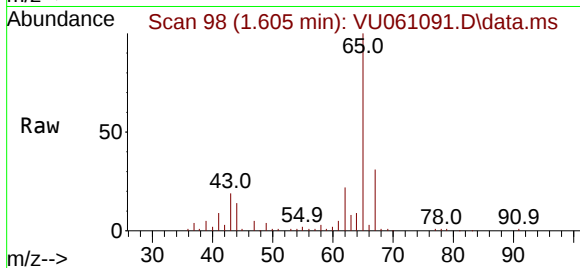
E27H5

Tgt Ion: 62 Resp: 7287

Ion Ratio Lower Upper

62 100

64 40.1 24.0 44.6



#13

Acetone

Concen: 11.422 ug/L

RT: 2.747 min Scan# 453

Delta R.T. 0.113 min

Lab File: VU061091.D

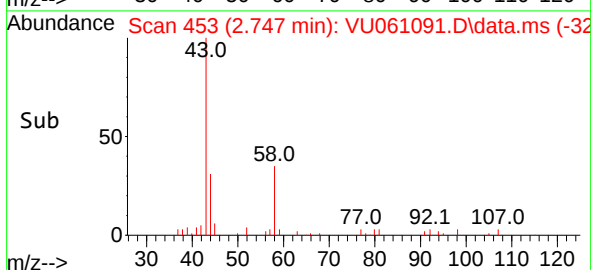
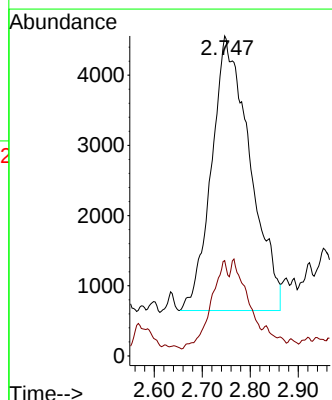
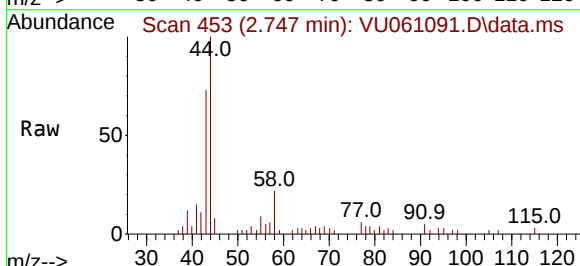
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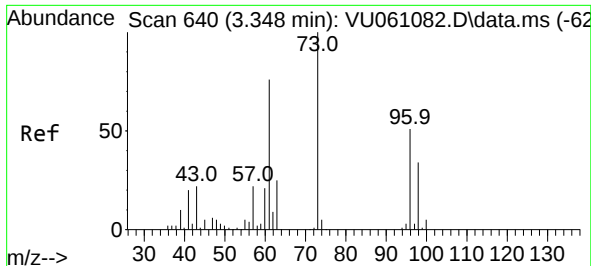
Tgt Ion: 43 Resp: 21776

Ion Ratio Lower Upper

43 100

58 14.6 0.0 69.6

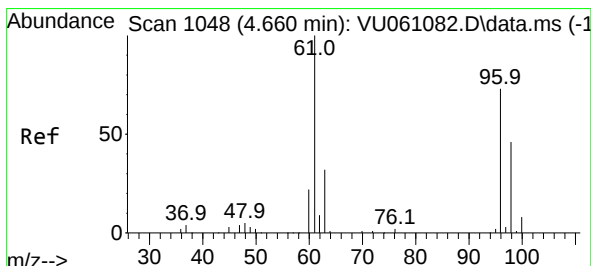
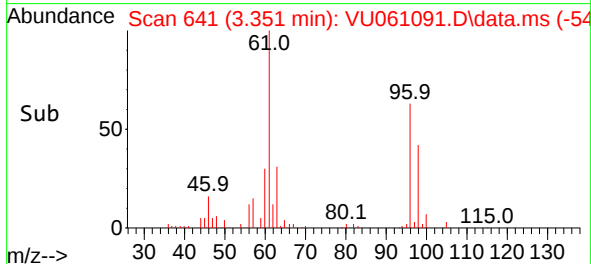
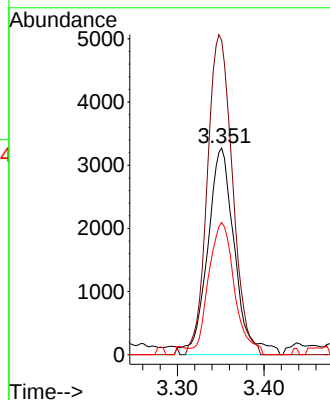
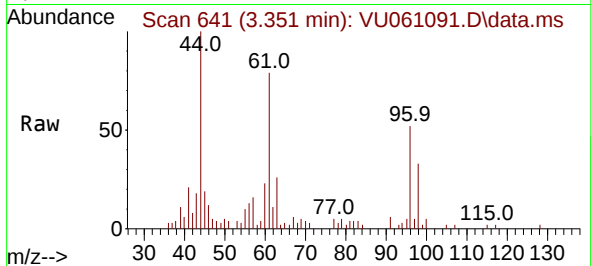




#18  
trans-1,2-Dichloroethene  
Concen: 0.641 ug/L  
RT: 3.351 min Scan# 641  
Delta R.T. 0.003 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

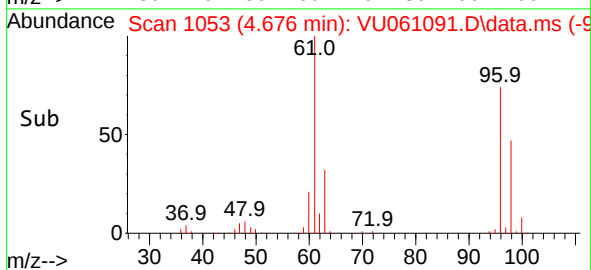
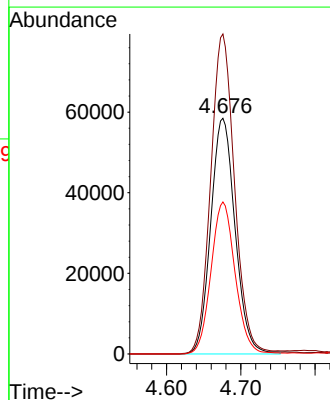
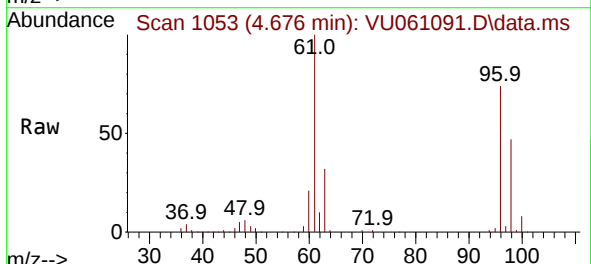
Instrument :  
MSVOA\_U  
ClientSampleId :  
E27H5

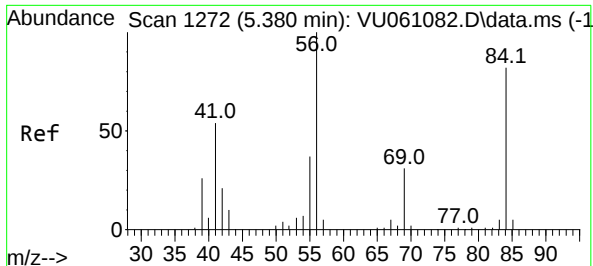
Tgt Ion: 96 Resp: 7018  
Ion Ratio Lower Upper  
96 100  
61 152.1 97.2 180.6  
98 63.9 43.3 80.5



#22  
cis-1,2-Dichloroethene  
Concen: 10.922 ug/L  
RT: 4.676 min Scan# 1053  
Delta R.T. 0.016 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

Tgt Ion: 96 Resp: 133281  
Ion Ratio Lower Upper  
96 100  
61 135.7 89.7 166.5  
98 64.5 45.1 83.9





#30

Cyclohexane

Concen: 0.112 ug/L

RT: 5.396 min Scan# 11

Delta R.T. 0.016 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA\_U

ClientSampleId :

E27H5

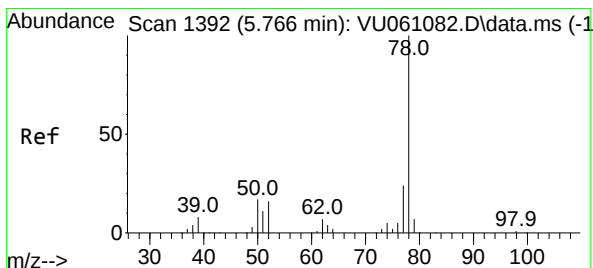
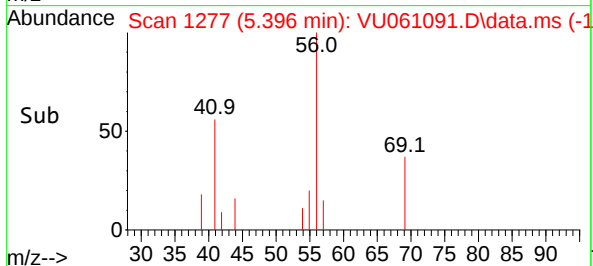
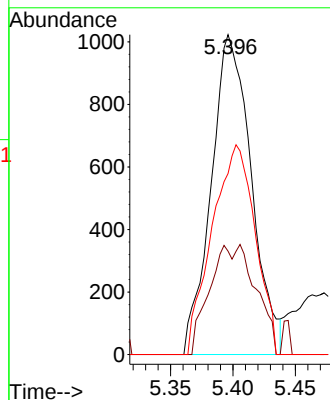
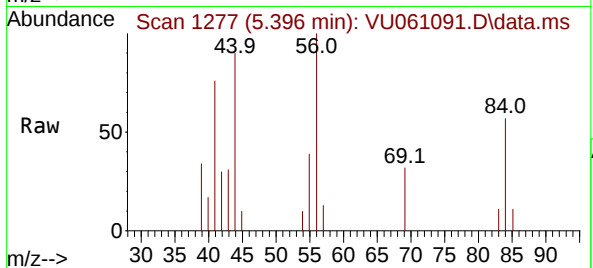
Tgt Ion: 56 Resp: 2295

Ion Ratio Lower Upper

56 100

69 20.2 25.4 38.0#

84 70.5 71.0 106.6#



#33

Benzene

Concen: 0.644 ug/L

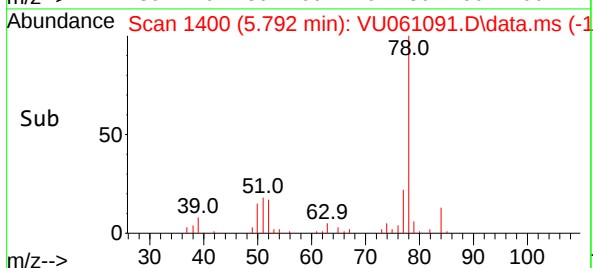
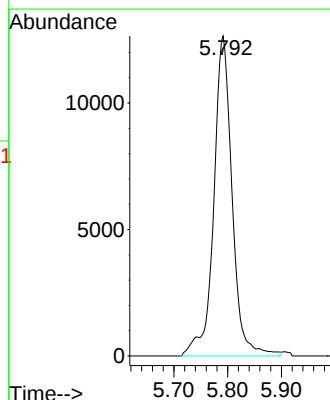
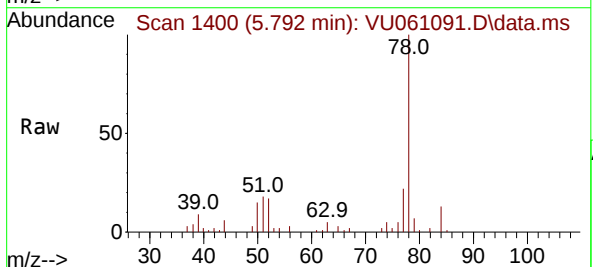
RT: 5.792 min Scan# 1400

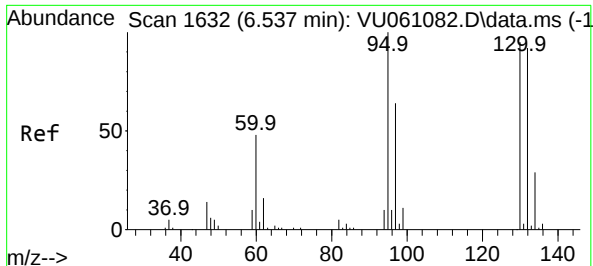
Delta R.T. 0.026 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Tgt Ion: 78 Resp: 30055

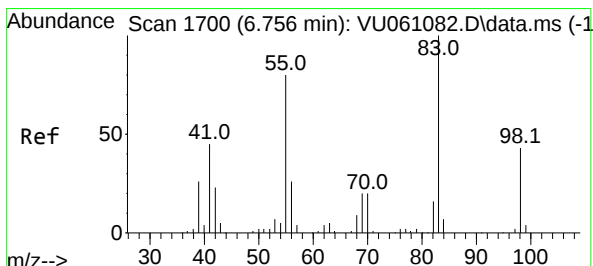
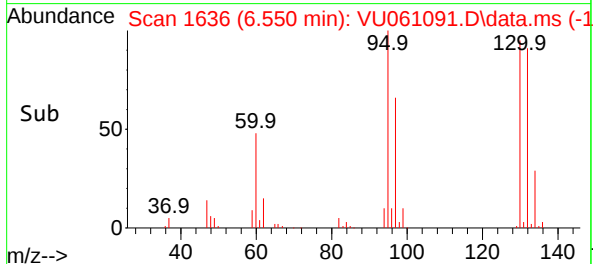
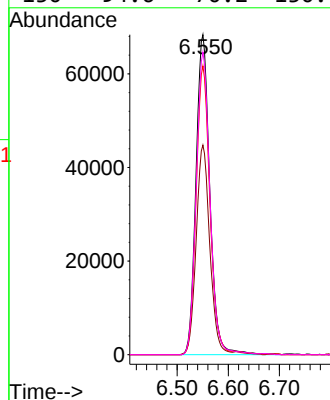
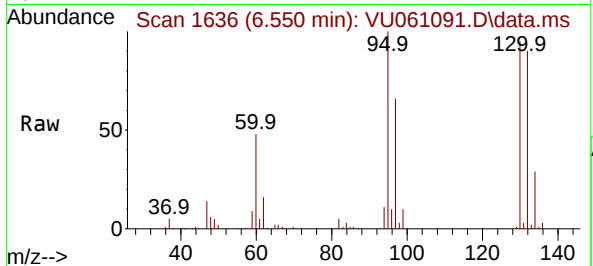




#34  
Trichloroethene  
Concen: 10.218 ug/L  
RT: 6.550 min Scan# 1  
Delta R.T. 0.013 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

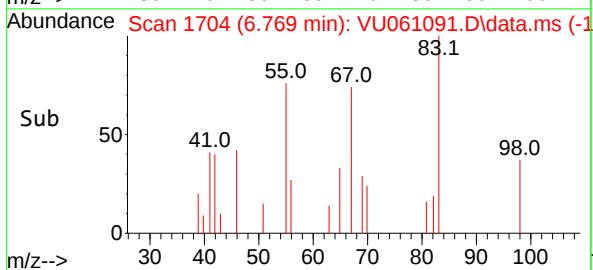
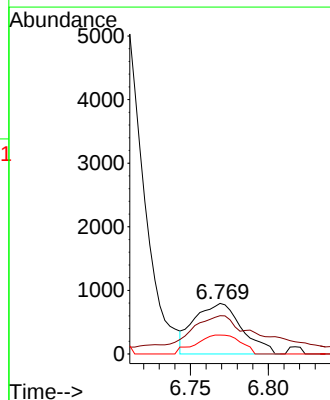
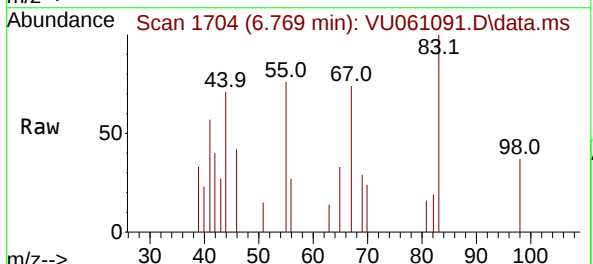
Instrument :  
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ClientSampleId :  
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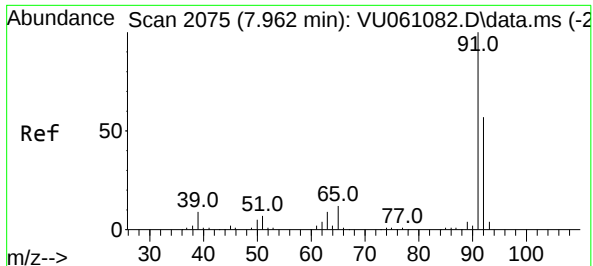
Tgt Ion: 95 Resp: 129290  
Ion Ratio Lower Upper  
95 100  
97 65.5 44.9 83.5  
132 90.2 63.5 117.9  
130 94.6 70.2 130.4



#35  
Methylcyclohexane  
Concen: 0.082 ug/L  
RT: 6.769 min Scan# 1704  
Delta R.T. 0.013 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

Tgt Ion: 83 Resp: 1680  
Ion Ratio Lower Upper  
83 100  
55 127.3 62.6 94.0#  
98 34.9 37.6 56.4#





#42

Toluene

Concen: 22.345 ug/L

RT: 7.968 min Scan# 2075

Delta R.T. 0.007 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA\_U

ClientSampleId :

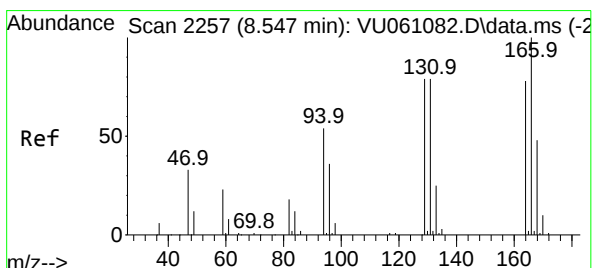
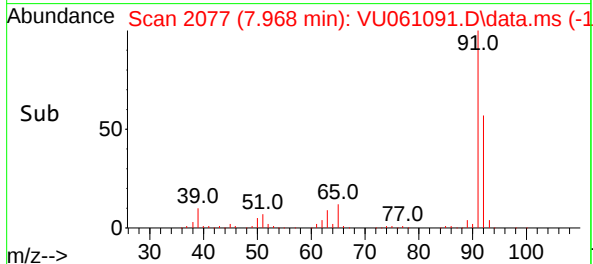
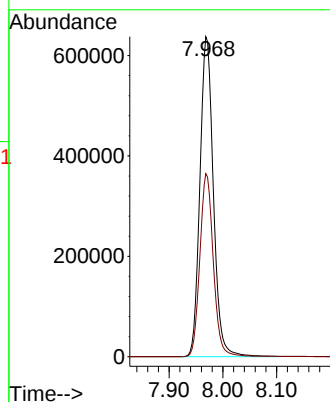
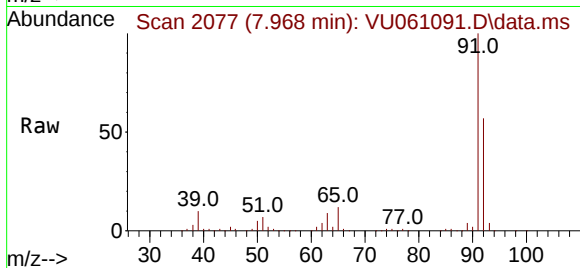
E27H5

Tgt Ion: 91 Resp: 1111181

Ion Ratio Lower Upper

91 100

92 57.2 40.5 75.3



#47

Tetrachloroethene

Concen: 289.035 ug/L

RT: 8.553 min Scan# 2259

Delta R.T. 0.007 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Tgt Ion:164 Resp: 2380270

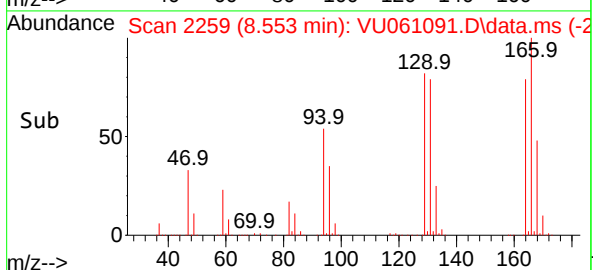
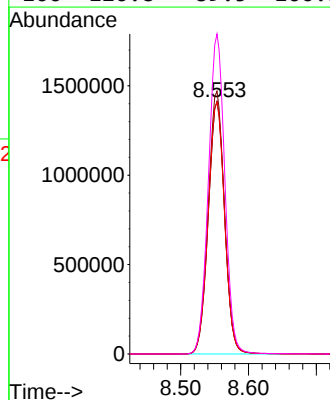
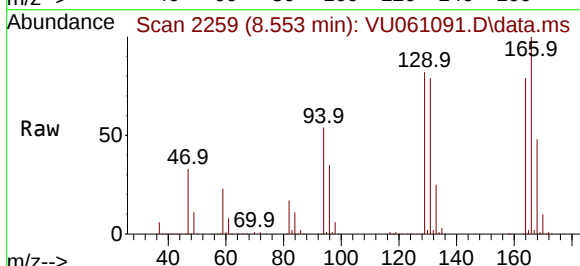
Ion Ratio Lower Upper

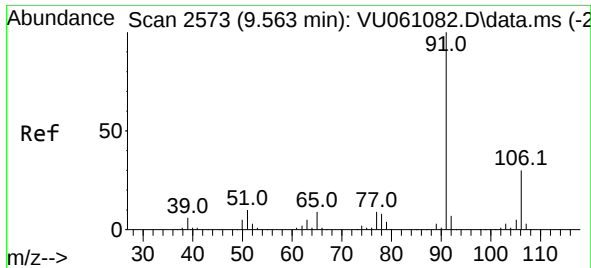
164 100

129 104.1 67.3 124.9

131 99.9 65.4 121.4

166 126.8 89.5 166.1

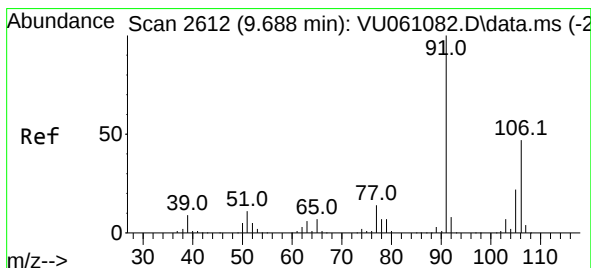
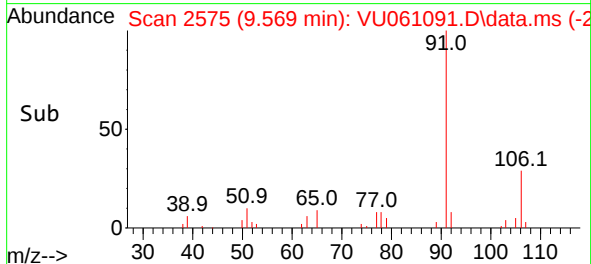
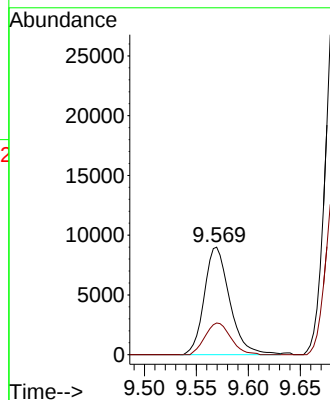
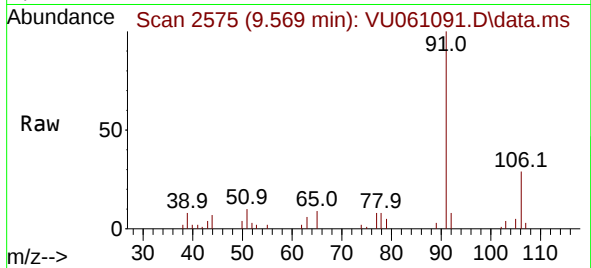




#52  
Ethylbenzene  
Concen: 0.272 ug/L  
RT: 9.569 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

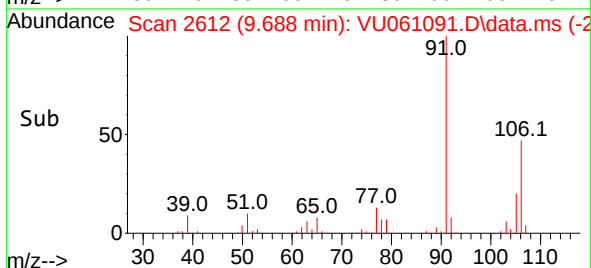
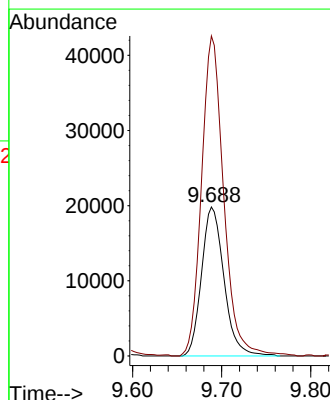
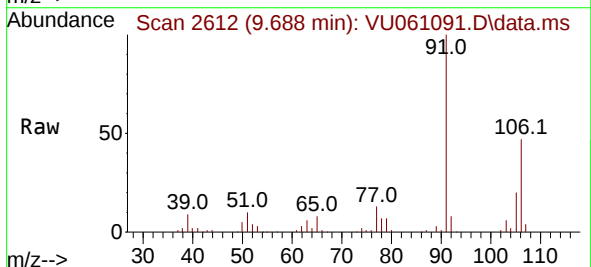
Instrument :  
MSVOA\_U  
ClientSampleId :  
E27H5

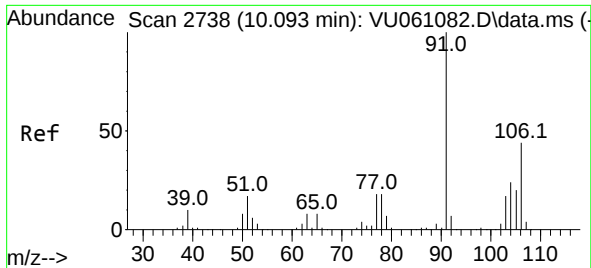
Tgt Ion: 91 Resp: 15328  
Ion Ratio Lower Upper  
91 100  
106 29.4 21.8 40.6



#53  
m,p-Xylene  
Concen: 1.689 ug/L  
RT: 9.688 min Scan# 2612  
Delta R.T. 0.000 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

Tgt Ion:106 Resp: 34716  
Ion Ratio Lower Upper  
106 100  
91 214.7 139.7 259.4

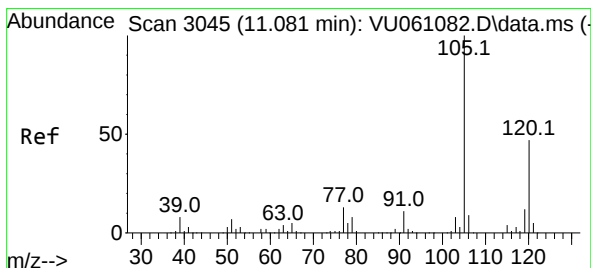
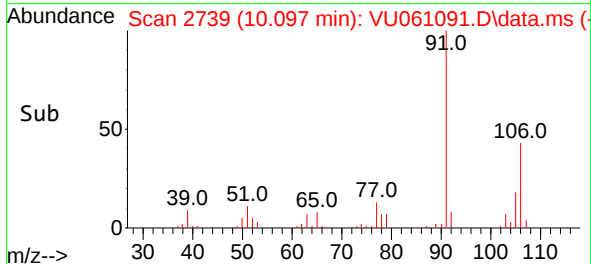
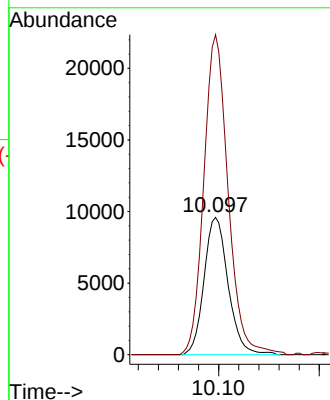
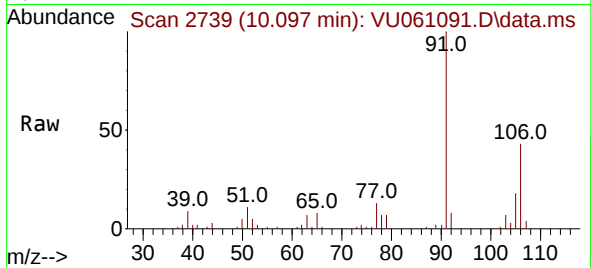




#54  
o-Xylene  
Concen: 0.790 ug/L  
RT: 10.097 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

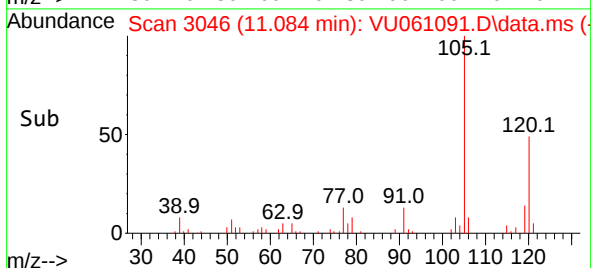
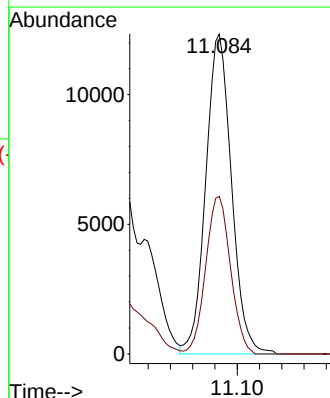
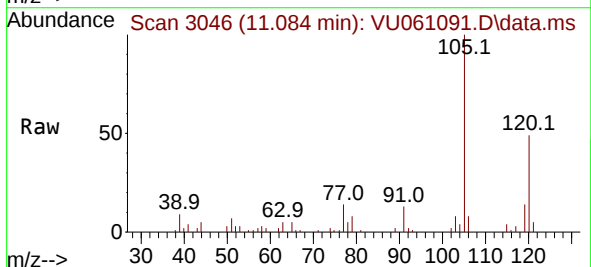
Instrument :  
MSVOA\_U  
ClientSampleId :  
E27H5

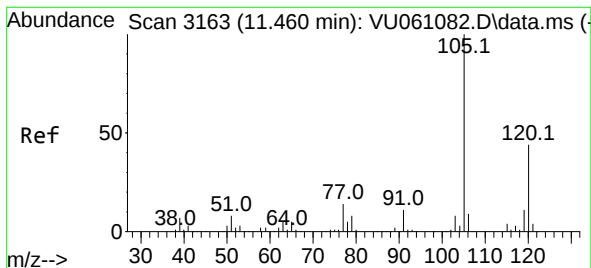
Tgt Ion:106 Resp: 15974  
Ion Ratio Lower Upper  
106 100  
91 233.0 148.6 276.0



#62  
1,3,5-Trimethylbenzene  
Concen: 0.437 ug/L  
RT: 11.084 min Scan# 3046  
Delta R.T. 0.003 min  
Lab File: VU061091.D  
Acq: 10 Oct 2024 15:59

Tgt Ion:105 Resp: 19798  
Ion Ratio Lower Upper  
105 100  
120 47.5 38.5 57.7





#63

1,2,4-Trimethylbenzene

Concen: 0.733 ug/L

RT: 11.463 min Scan# 3163

Delta R.T. 0.003 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

Instrument :

MSVOA\_U

ClientSampleId :

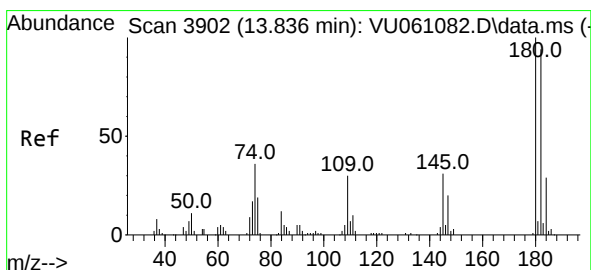
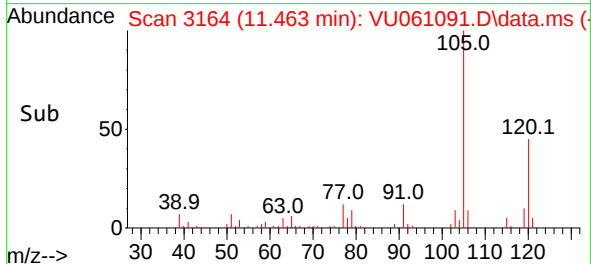
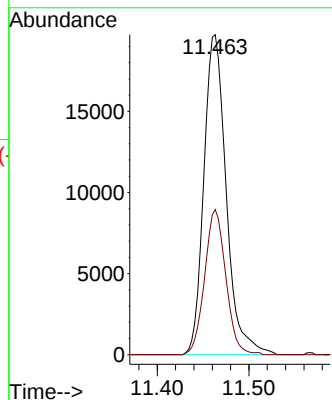
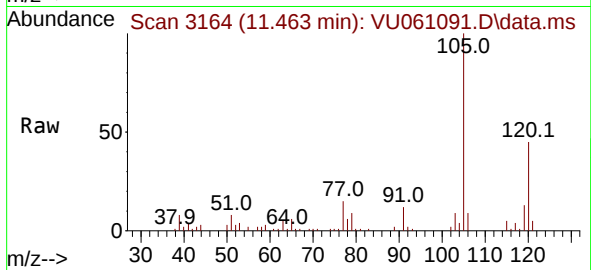
E27H5

Tgt Ion:105 Resp: 33529

Ion Ratio Lower Upper

105 100

120 42.9 36.1 54.1



#70

1,2,4-trichlorobenzene

Concen: 0.301 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU061091.D

Acq: 10 Oct 2024 15:59

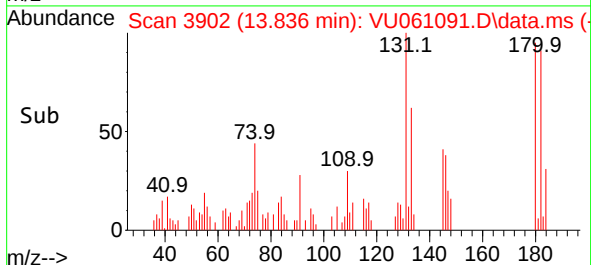
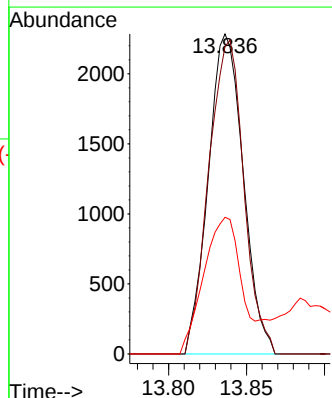
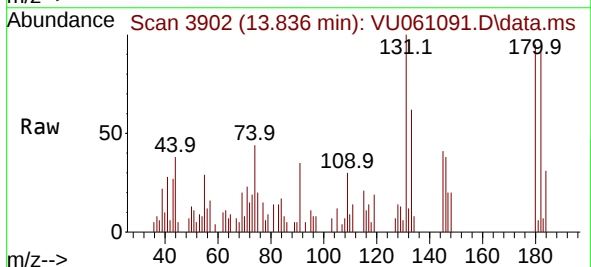
Tgt Ion:180 Resp: 3576

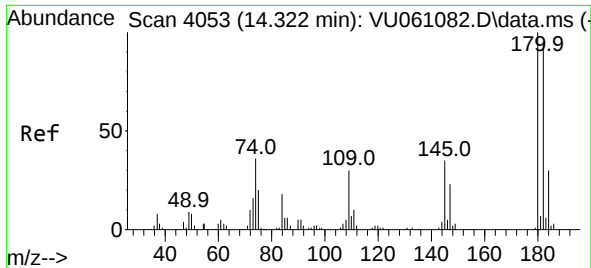
Ion Ratio Lower Upper

180 100

182 97.9 77.4 116.2

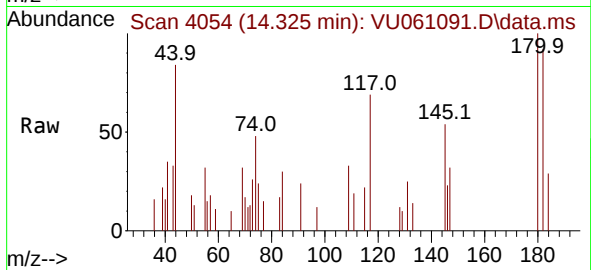
145 46.6 22.9 34.3#





#72  
 1,2,3-Trichlorobenzene  
 Concen: 0.159 ug/L  
 RT: 14.325 min Scan# 40  
 Delta R.T. 0.003 min  
 Lab File: VU061091.D  
 Acq: 10 Oct 2024 15:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E27H5



Tgt Ion:180 Resp: 1578  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 88.8  | 75.7  | 113.5 |
| 145 | 31.3  | 23.5  | 35.3  |

