

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW100121\  
 Data File : VW022498.D  
 Acq On : 02 Oct 2021 05:38  
 Operator : SY/MD  
 Sample : M4023-08  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AJ7

Manual Integrations  
 APPROVED

MMDadoda  
 10/6/2021 2:24:48 PM

Quant Time: Oct 02 06:33:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM100121WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 02 01:27:14 2021  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response  | Conc      | Units  | Dev(Min)   |
|-------------------------------|---------|-------|-----------|-----------|--------|------------|
| -----                         |         |       |           |           |        |            |
| Internal Standards            |         |       |           |           |        |            |
| 1) 1,4-Difluorobenzene        | 5.625   | 114   | 249703    | 50.000    | ug/L   | 0.00       |
| 28) Chlorobenzene-d5          | 8.853   | 117   | 249172    | 50.000    | ug/L   | 0.00       |
| 58) 1,4-Dichlorobenzene-d4    | 11.252  | 152   | 131147    | 50.000    | ug/L   | 0.00       |
| System Monitoring Compounds   |         |       |           |           |        |            |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 71157     | 46.077    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 60 - 135  | Recovery  | =      | 92.160%    |
| 7) Chloroethane-d5            | 1.568   | 69    | 58474     | 48.169    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 130  | Recovery  | =      | 96.340%    |
| 11) 1,1-Dichloroethene-d2     | 2.114   | 63    | 4923082   | 1616.757  | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 60 - 125  | Recovery  | =      | 3233.520%# |
| 21) 2-Butanone-d5             | 3.895   | 46    | 74580     | 87.735    | ug/L   | 0.00       |
| Spiked Amount                 | 100.000 | Range | 40 - 130  | Recovery  | =      | 87.730%    |
| 24) Chloroform-d              | 4.352   | 84    | 128890    | 45.681    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 125  | Recovery  | =      | 91.360%    |
| 26) 1,2-Dichloroethane-d4     | 5.037   | 65    | 77013     | 47.053    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 125  | Recovery  | =      | 94.100%    |
| 32) Benzene-d6                | 5.059   | 84    | 259952    | 45.033    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 125  | Recovery  | =      | 90.060%    |
| 36) 1,2-Dichloropropane-d6    | 6.098   | 67    | 83631     | 47.062    | ug/L   | 0.03       |
| Spiked Amount                 | 50.000  | Range | 70 - 120  | Recovery  | =      | 94.120%    |
| 41) Toluene-d8                | 7.320   | 98    | 244047    | 46.090    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 80 - 120  | Recovery  | =      | 92.180%    |
| 43) trans-1,3-Dichloroprop... | 7.625   | 79    | 39066     | 46.464    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 60 - 125  | Recovery  | =      | 92.920%    |
| 47) 2-Hexanone-d5             | 8.095   | 63    | 67035     | 91.061    | ug/L   | 0.00       |
| Spiked Amount                 | 100.000 | Range | 45 - 130  | Recovery  | =      | 91.060%    |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84    | 110266    | 44.623    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 65 - 120  | Recovery  | =      | 89.240%    |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152   | 100256    | 46.877    | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 80 - 120  | Recovery  | =      | 93.760%    |
| Target Compounds              |         |       |           |           |        |            |
|                               |         |       |           |           | Qvalue |            |
| 5) Vinyl chloride             | 1.310   | 62    | 15908     | 6.758     | ug/L   | 96         |
| 12) 1,1-Dichloroethene        | 2.117   | 96    | 8259101   | 4735.011  | ug/L # | 70         |
| 16) Methylene chloride        | 2.503   | 84    | 3786508   | 1727.803  | ug/L   | 98         |
| 17) trans-1,2-Dichloroethene  | 2.764   | 96    | 20524     | 10.719    | ug/L   | 96         |
| 19) 1,1-Dichloroethane        | 3.191   | 63    | 366795    | 108.263   | ug/L   | 98         |
| 20) cis-1,2-Dichloroethene    | 3.915   | 96    | 5520753   | 2706.430  | ug/L   | 94         |
| 25) Chloroform                | 4.381   | 83    | 40023     | 11.740    | ug/L   | 98         |
| 27) 1,2-Dichloroethane        | 5.140   | 62    | 34669     | 14.043    | ug/L   | 96         |
| 30) 1,1,1-Trichloroethane     | 4.622   | 97    | 14047380  | 4513.027  | ug/L   | 97         |
| 33) Benzene                   | 5.111   | 78    | 8621      | 1.121     | ug/L   | 100        |
| 34) Trichloroethene           | 5.934   | 95    | 56800457m | 28275.848 | ug/L   |            |
| 40) 4-Methyl-2-pentanone      | 7.239   | 43    | 5533      | 1.999     | ug/L   | 96         |
| 42) Toluene                   | 7.394   | 91    | 279768    | 34.521    | ug/L   | 100        |
| 45) 1,1,2-Trichloroethane     | 7.841   | 97    | 159725    | 78.333    | ug/L   | 100        |
| 46) Tetrachloroethene         | 7.982   | 164   | 13713     | 8.154     | ug/L   | 97         |
| 52) Ethylbenzene              | 9.014   | 91    | 585656    | 69.434    | ug/L   | 100        |
| 53) m,p-Xylene                | 9.140   | 106   | 1013196   | 303.188   | ug/L   | 100        |
| 54) o-Xylene                  | 9.545   | 106   | 676608    | 207.813   | ug/L   | 98         |
| 60) Isopropylbenzene          | 9.934   | 105   | 20490     | 2.456     | ug/L   | 99         |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV100121\  
Data File : VV022498.D  
Acq On : 02 Oct 2021 05:38  
Operator : SY/MD  
Sample : M4023-08  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AJ7

Manual Integrations  
APPROVED

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Quant Time: Oct 02 06:33:25 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM100121WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Oct 02 01:27:14 2021  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|--------|------|----------|-------|-------|----------|
| 61) 1,2,3-Trichloropropane | 10.278 | 75   | 4199     | 1.684 | ug/L  | 93       |
| 63) 1,2,4-Trimethylbenzene | 10.918 | 105  | 7649     | 1.095 | ug/L  | 100      |

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

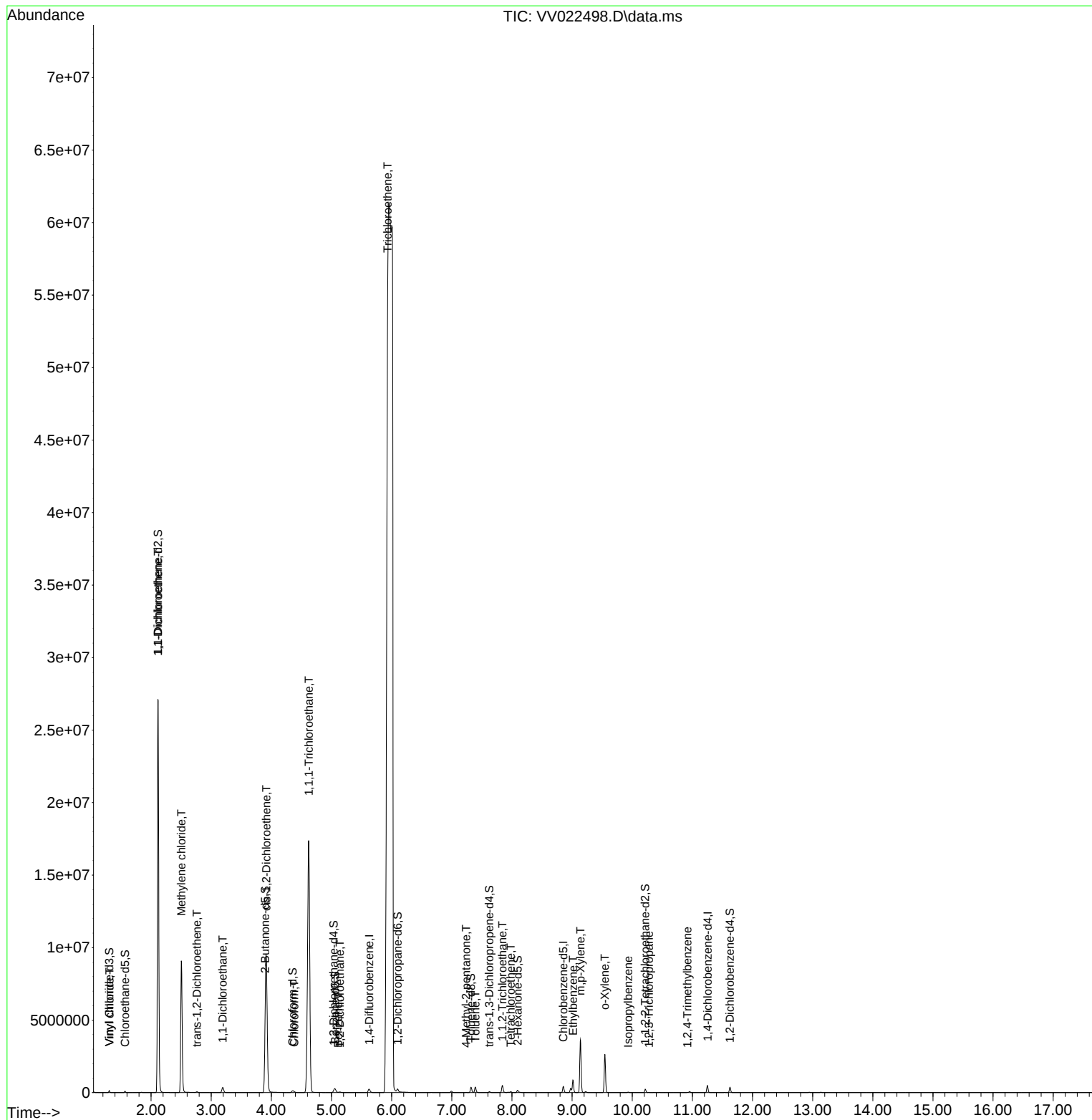
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV100121\  
Data File : VV022498.D  
Acq On : 02 Oct 2021 05:38  
Operator : SY/MD  
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Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 29 Sample Multiplier: 1

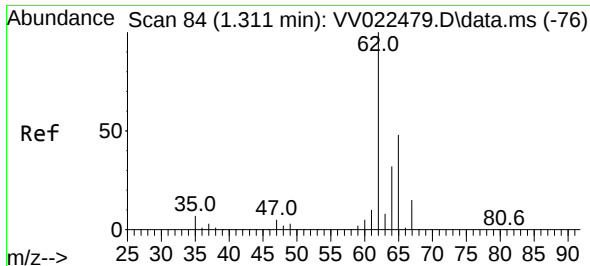
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM100121WMA.M  
Quant Title : VOC Analysis  
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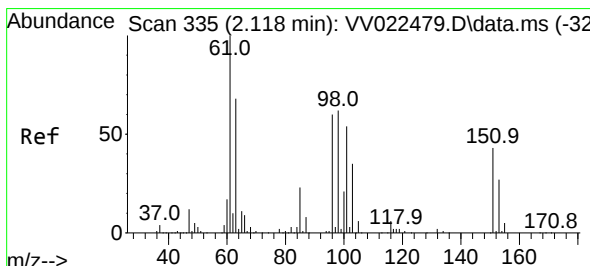
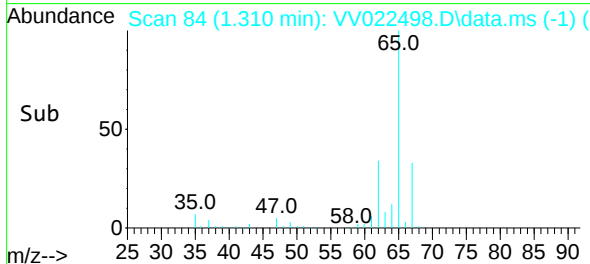
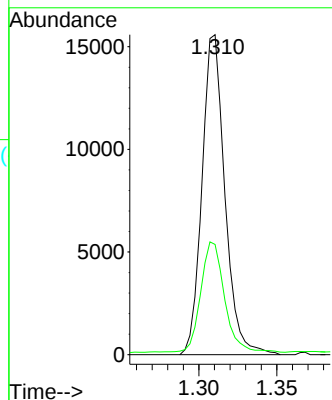
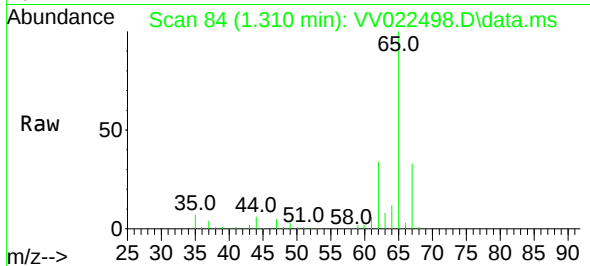
#5  
 Vinyl chloride  
 Concen: 6.758 ug/L  
 RT: 1.310 min Scan# 84  
 Delta R.T. -0.000 min  
 Lab File: VV022498.D  
 Acq: 02 Oct 2021 05:38

Tgt Ion: 62 Resp: 15908  
 Ion Ratio Lower Upper  
 62 100  
 64 34.4 22.5 41.9

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0AJ7

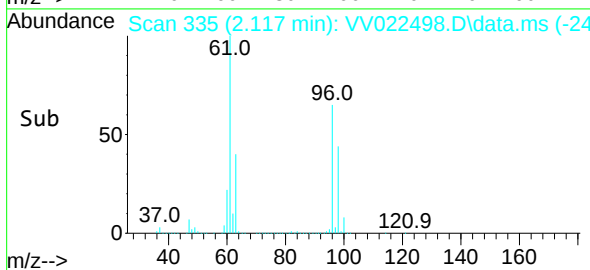
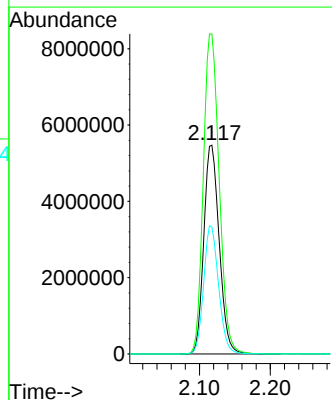
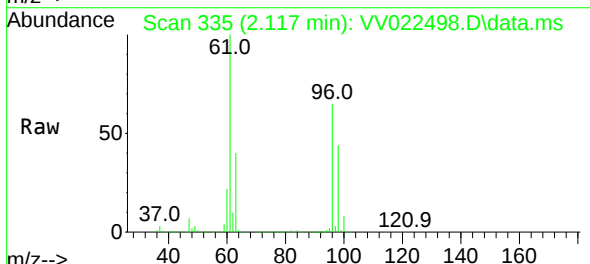
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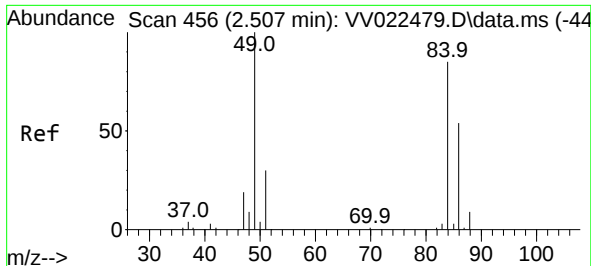
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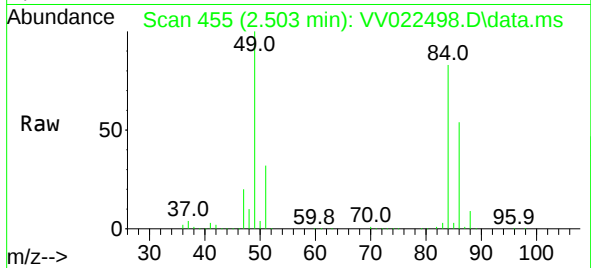
#12  
 1,1-Dichloroethene  
 Concen: 4735.011 ug/L  
 RT: 2.117 min Scan# 335  
 Delta R.T. -0.000 min  
 Lab File: VV022498.D  
 Acq: 02 Oct 2021 05:38

Tgt Ion: 96 Resp: 8259101  
 Ion Ratio Lower Upper  
 96 100  
 61 153.2 118.0 219.2  
 63 60.8 86.4 160.4#



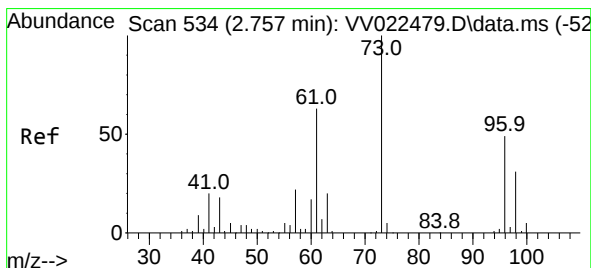
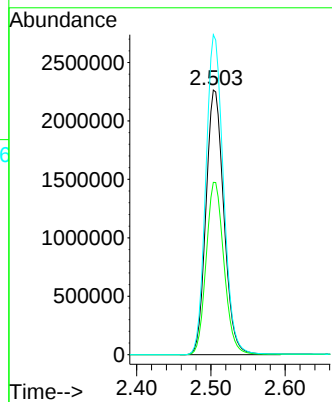
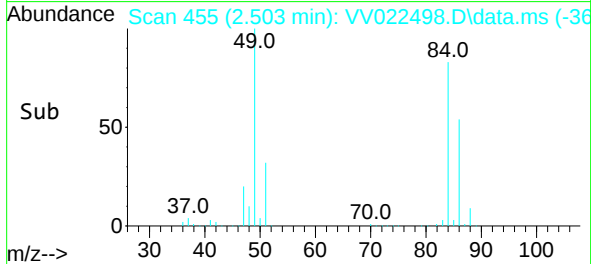


#16  
Methylene chloride  
Concen: 1727.803 ug/L  
RT: 2.503 min Scan# 455  
Delta R.T. -0.003 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

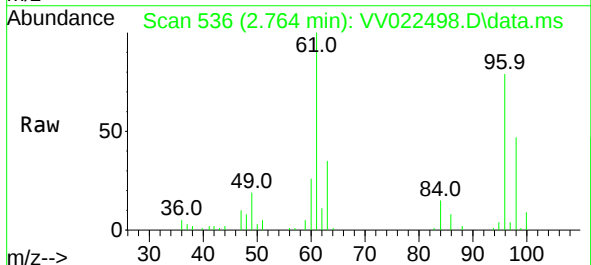


Tgt Ion: 84 Resp: 3786508

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 86  | 65.1  | 45.6  | 84.6  |
| 49  | 120.9 | 82.7  | 153.7 |

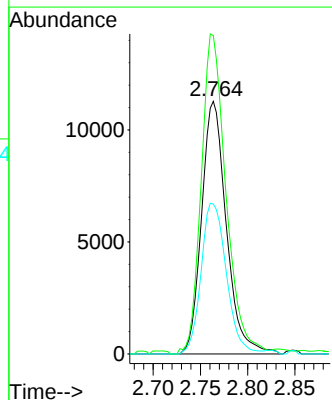
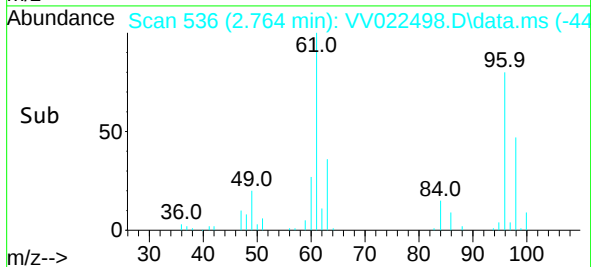


#17  
trans-1,2-Dichloroethene  
Concen: 10.719 ug/L  
RT: 2.764 min Scan# 536  
Delta R.T. 0.006 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38



Tgt Ion: 96 Resp: 20524

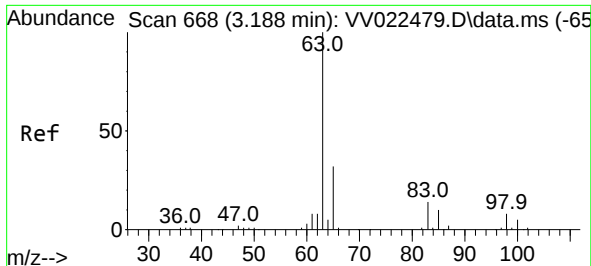
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 126.0 | 90.8  | 168.6 |
| 98  | 59.3  | 44.0  | 81.8  |



Instrument :  
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#19

1,1-Dichloroethane

Concen: 108.263 ug/L

RT: 3.191 min Scan# 669

Delta R.T. 0.003 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 366795 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 65       | 31.7  | 22.9  | 42.5   |
| 83       | 14.7  | 9.4   | 17.4   |

Instrument :

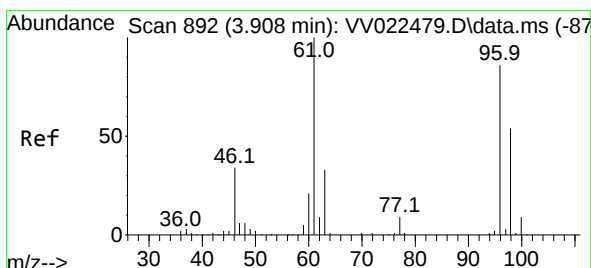
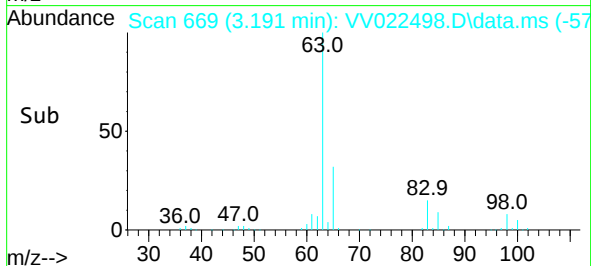
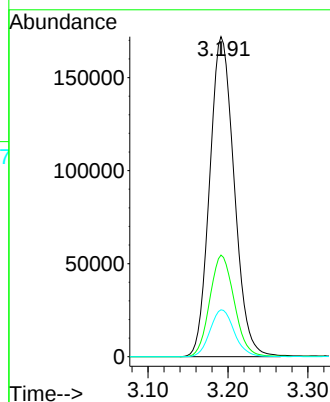
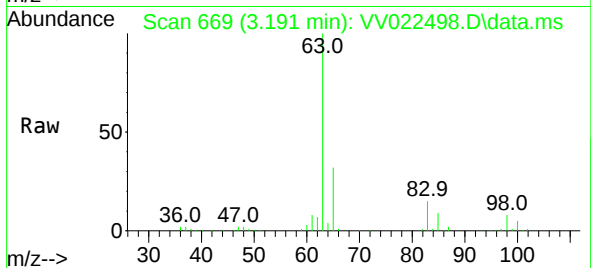
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ClientSampled :

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#20

cis-1,2-Dichloroethene

Concen: 2706.430 ug/L

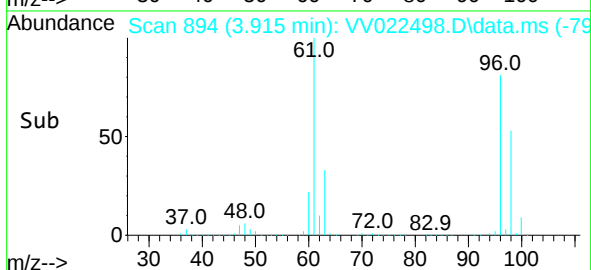
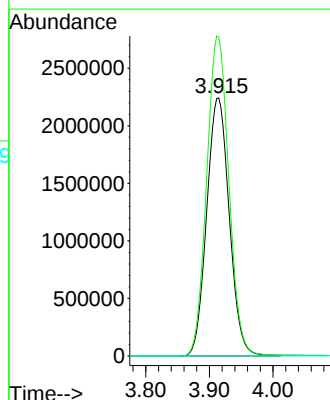
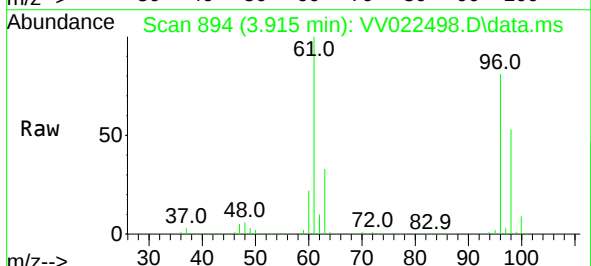
RT: 3.915 min Scan# 894

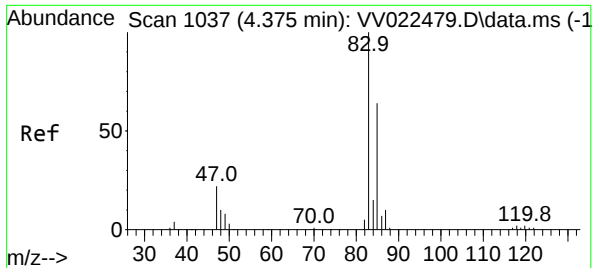
Delta R.T. 0.006 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

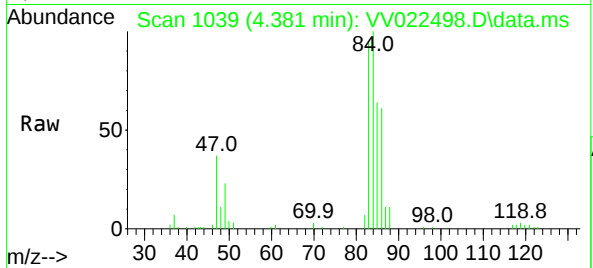
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|----------|-------|-------|---------|
| Tgt Ion: | 96    | Resp: | 5520753 |
| Ion      | Ratio | Lower | Upper   |
| 96       | 100   |       |         |
| 61       | 123.5 | 81.9  | 152.1   |
| 68       | 0.0   | 0.0   | 0.0     |





#25  
Chloroform  
Concen: 11.740 ug/L  
RT: 4.381 min Scan# 1039  
Delta R.T. 0.006 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

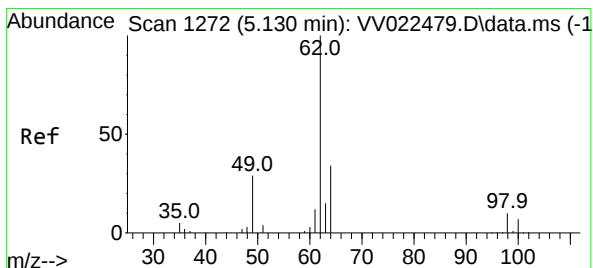
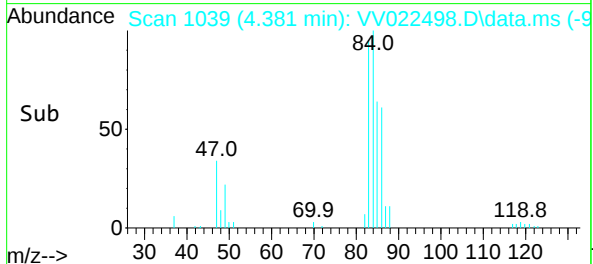
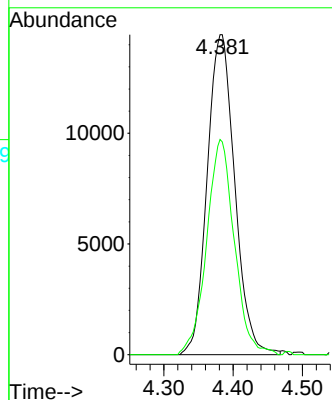
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ7



Tgt Ion: 83 Resp: 40023  
Ion Ratio Lower Upper  
83 100  
85 67.3 45.8 85.0

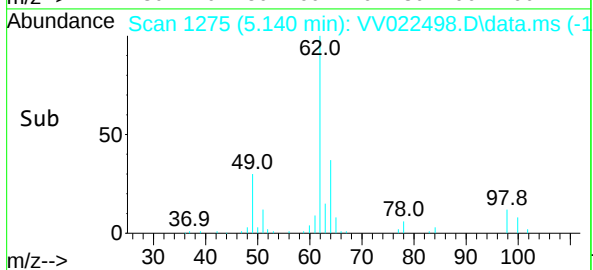
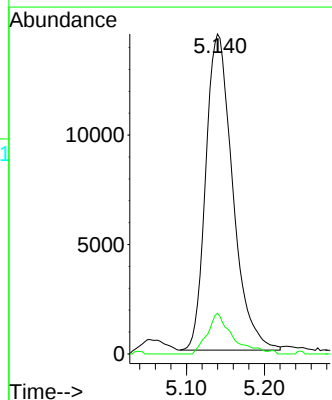
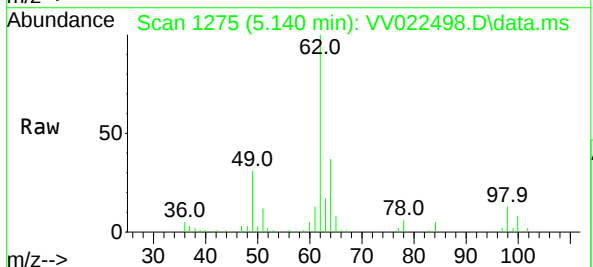
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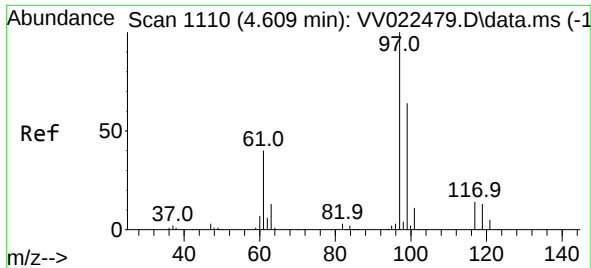
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#27  
1,2-Dichloroethane  
Concen: 14.043 ug/L  
RT: 5.140 min Scan# 1275  
Delta R.T. 0.009 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

Tgt Ion: 62 Resp: 34669  
Ion Ratio Lower Upper  
62 100  
98 12.7 9.0 13.4





#30  
1,1,1-Trichloroethane  
Concen: 4513.027 ug/L  
RT: 4.622 min Scan# 1114  
Delta R.T. 0.013 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

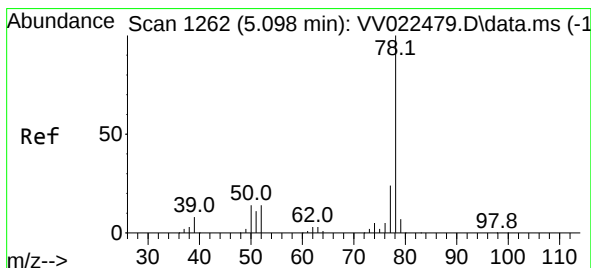
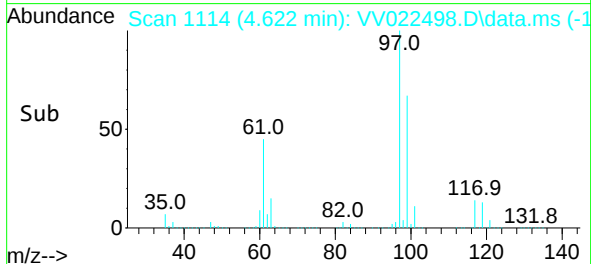
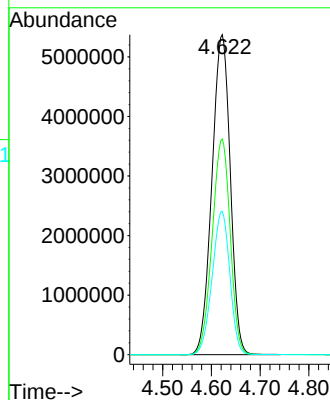
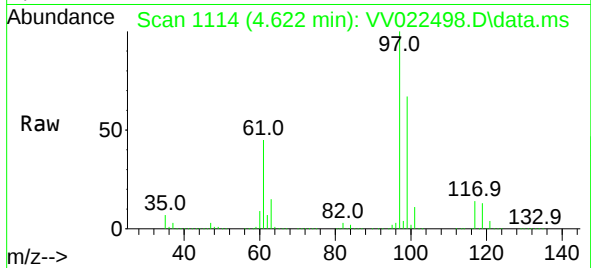
Tgt Ion: 97 Resp:14047380

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 66.3  | 51.7  | 77.5  |
| 61  | 43.2  | 32.9  | 49.3  |

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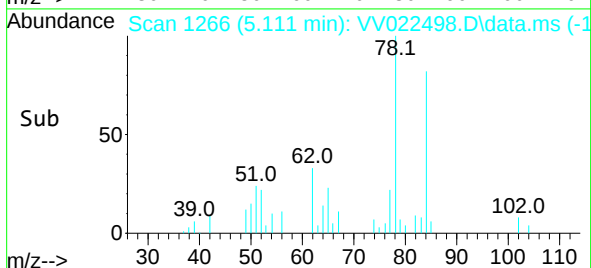
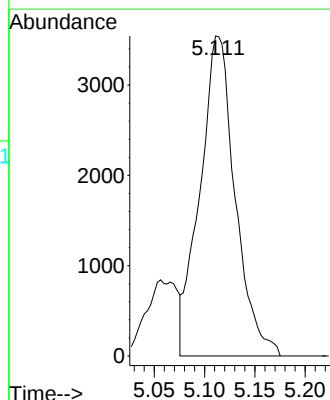
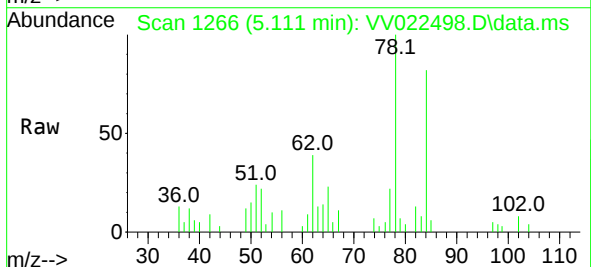
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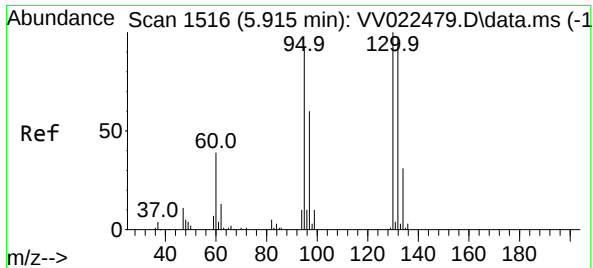
MMDadoda  
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#33  
Benzene  
Concen: 1.121 ug/L  
RT: 5.111 min Scan# 1266  
Delta R.T. 0.013 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

Tgt Ion: 78 Resp: 8621





#34

Trichloroethene

Concen: 28275.848 ug/L m

RT: 5.934 min Scan# 1522

Delta R.T. 0.019 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

Tgt Ion: 95 Resp: 56800457

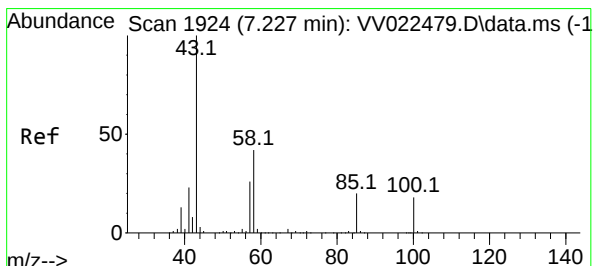
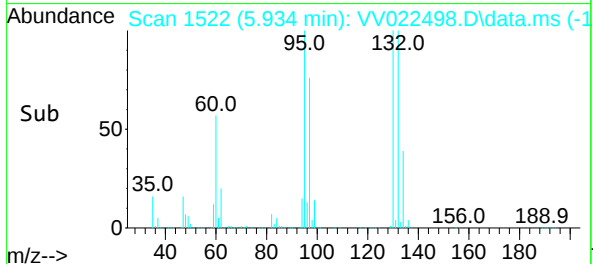
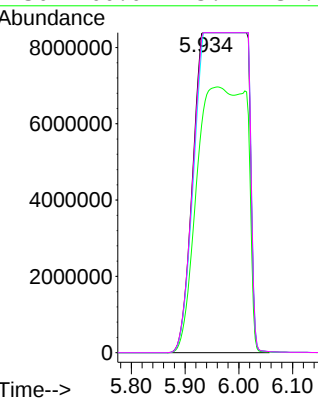
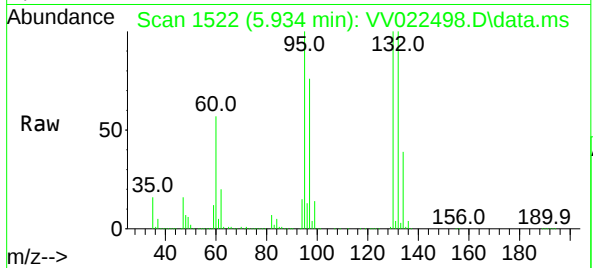
Ion Ratio Lower Upper

95 100

97 75.5 45.4 84.4

132 100.0 71.5 132.9

130 100.0 75.2 139.6



#40

4-Methyl-2-pentanone

Concen: 1.999 ug/L

RT: 7.239 min Scan# 1928

Delta R.T. 0.013 min

Lab File: VV022498.D

Acq: 02 Oct 2021 05:38

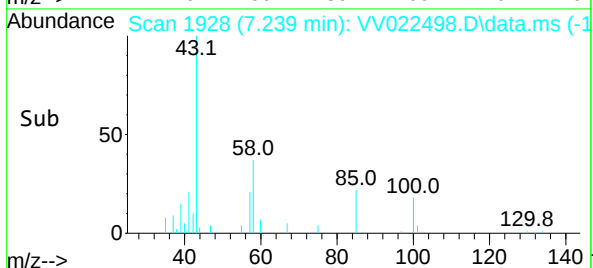
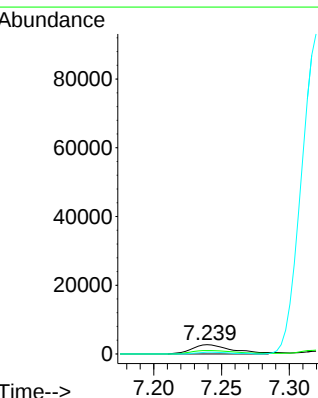
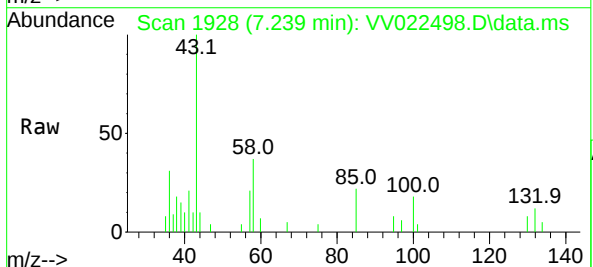
Tgt Ion: 43 Resp: 5533

Ion Ratio Lower Upper

43 100

58 42.2 32.5 48.7

100 13.9 13.9 20.9



Instrument :

MSVOA\_V

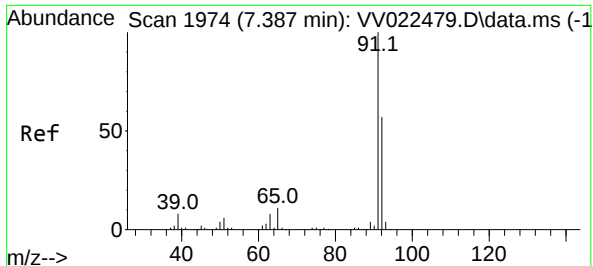
ClientSampled :

C0AJ7

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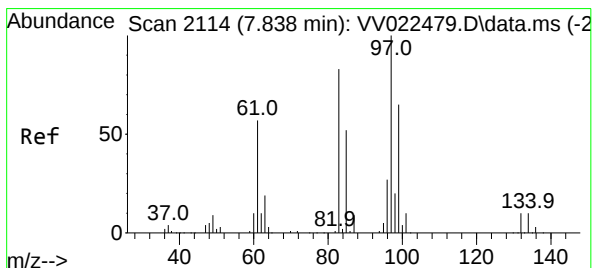
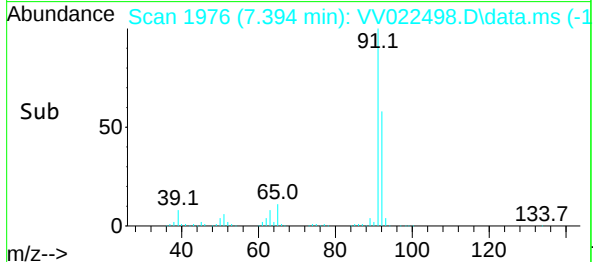
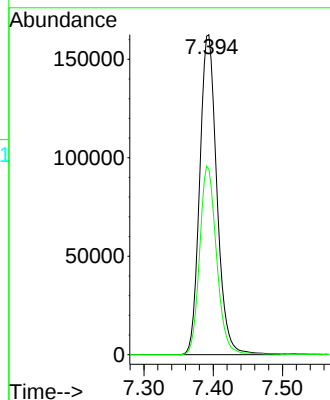
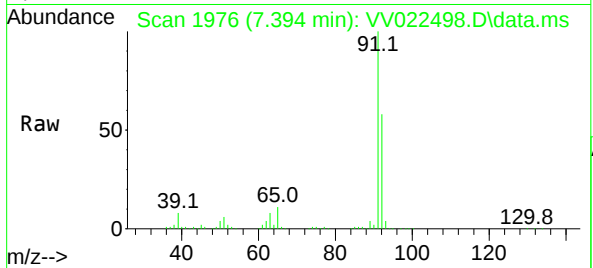
#42  
Toluene  
Concen: 34.521 ug/L  
RT: 7.394 min Scan# 1976  
Delta R.T. 0.006 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

Tgt Ion: 91 Resp: 279768  
Ion Ratio Lower Upper  
91 100  
92 58.1 40.6 75.4

Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ7

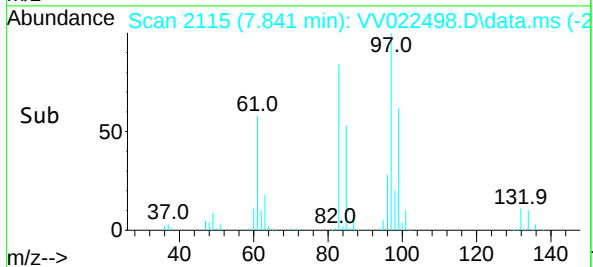
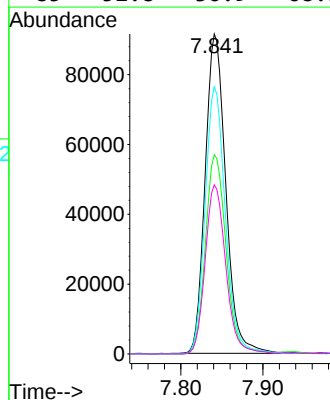
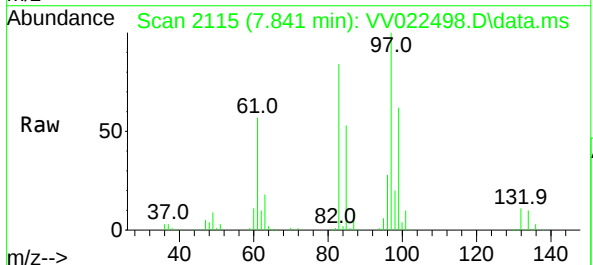
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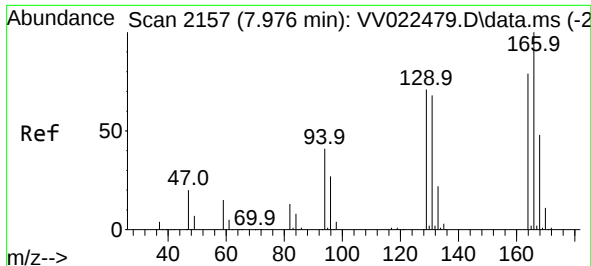
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#45  
1,1,2-Trichloroethane  
Concen: 78.333 ug/L  
RT: 7.841 min Scan# 2115  
Delta R.T. 0.003 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

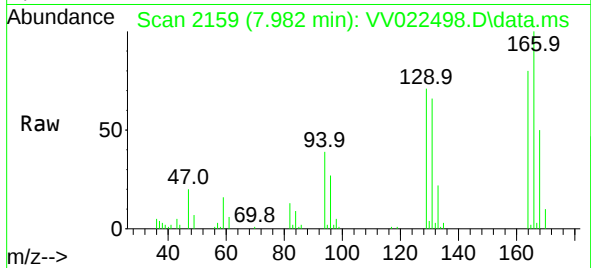
Tgt Ion: 97 Resp: 159725  
Ion Ratio Lower Upper  
97 100  
99 62.3 43.1 80.1  
83 83.6 58.6 108.8  
85 52.8 36.9 68.5





#46  
Tetrachloroethene  
Concen: 8.154 ug/L  
RT: 7.982 min Scan# 2159  
Delta R.T. 0.006 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

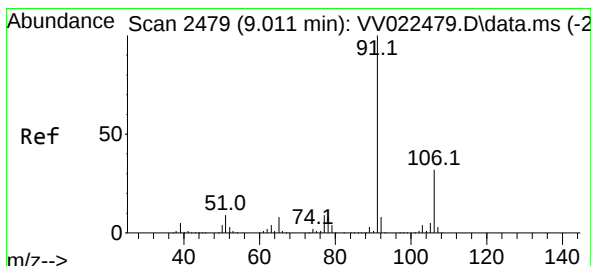
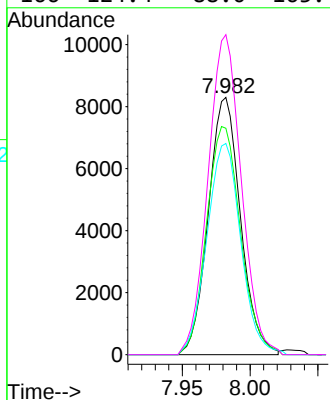
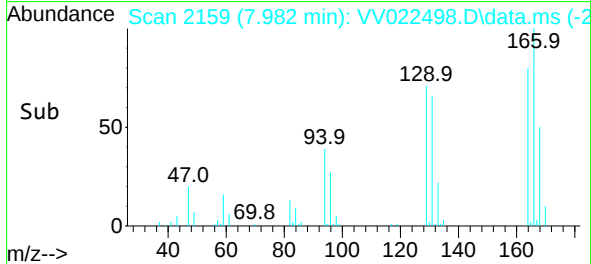
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ7



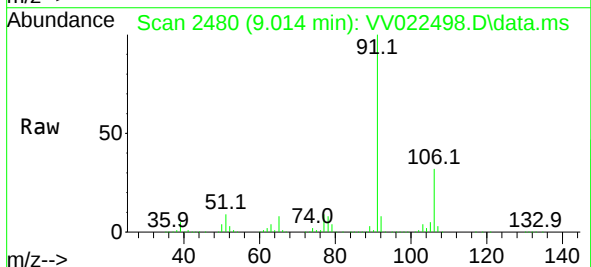
Tgt Ion:164 Resp: 13713  
Ion Ratio Lower Upper  
164 100  
129 88.0 64.6 120.0  
131 82.1 59.9 111.3  
166 124.4 88.0 163.4

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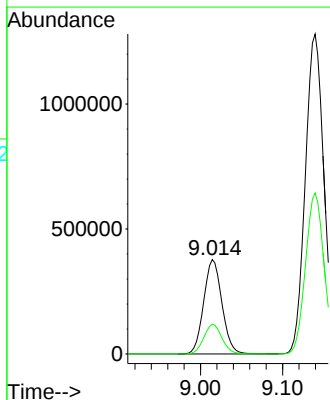
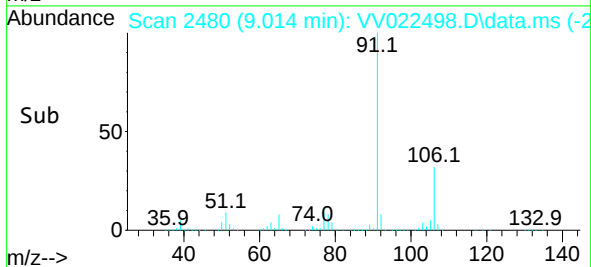
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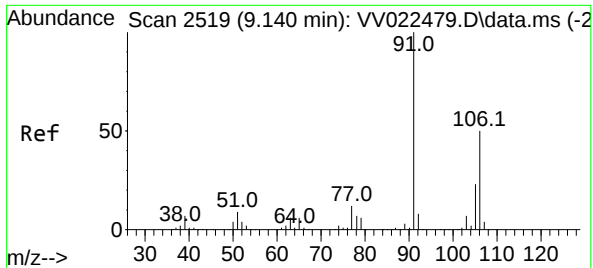


#52  
Ethylbenzene  
Concen: 69.434 ug/L  
RT: 9.014 min Scan# 2480  
Delta R.T. 0.003 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38



Tgt Ion: 91 Resp: 585656  
Ion Ratio Lower Upper  
91 100  
106 31.5 22.0 41.0





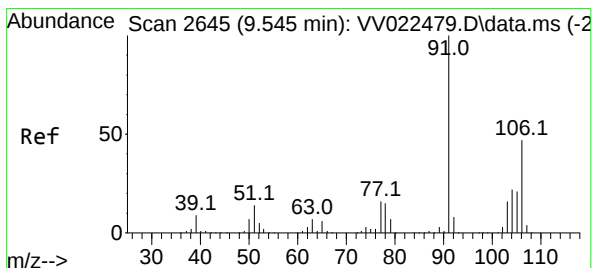
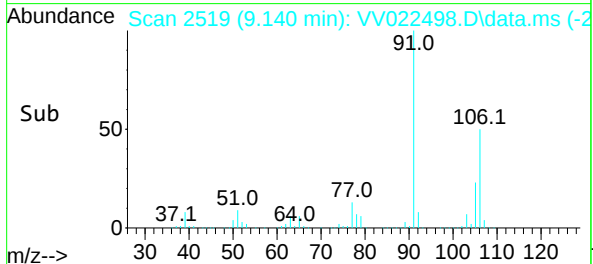
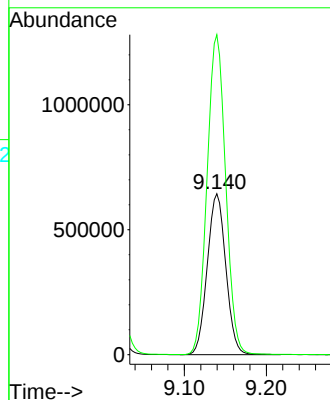
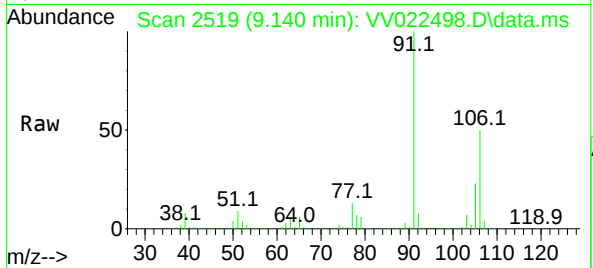
#53  
m,p-Xylene  
Concen: 303.188 ug/L  
RT: 9.140 min Scan# 2519  
Delta R.T. -0.000 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

Tgt Ion:106 Resp: 1013196  
Ion Ratio Lower Upper  
106 100  
91 198.9 139.4 258.8

Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ7

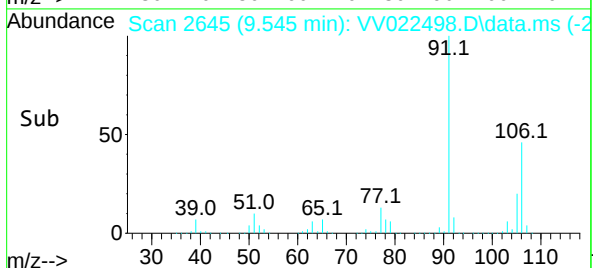
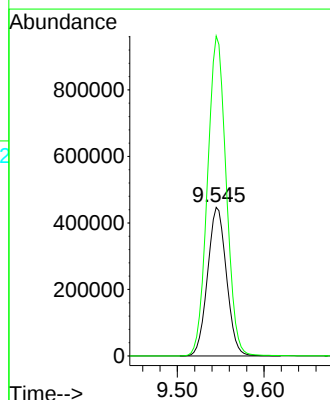
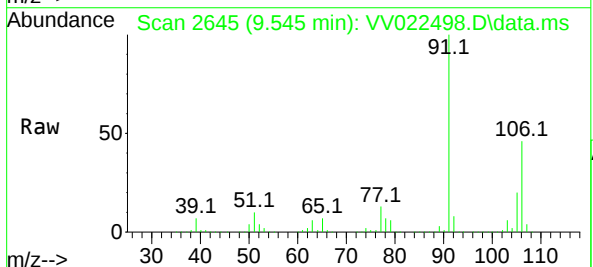
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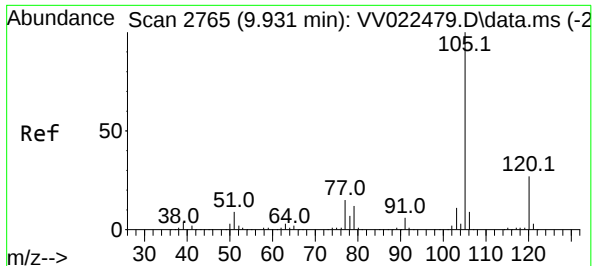
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#54  
o-Xylene  
Concen: 207.813 ug/L  
RT: 9.545 min Scan# 2645  
Delta R.T. -0.000 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

Tgt Ion:106 Resp: 676608  
Ion Ratio Lower Upper  
106 100  
91 215.3 148.7 276.1





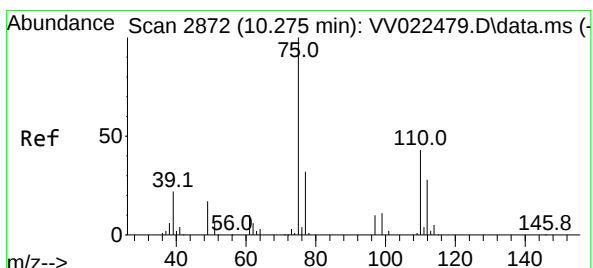
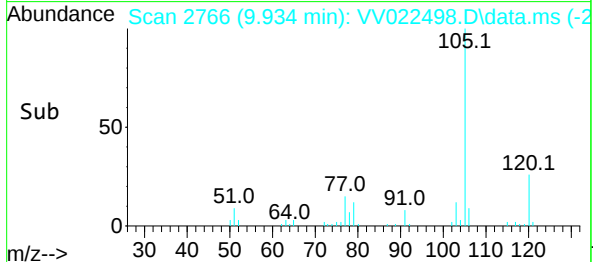
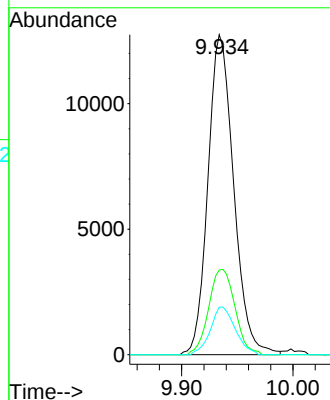
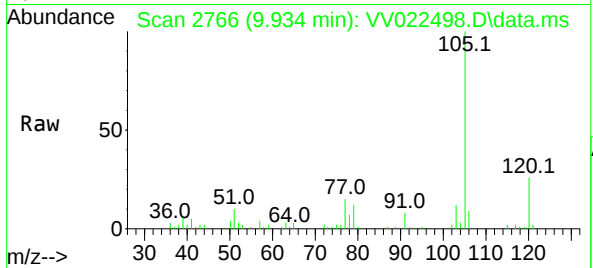
#60  
Isopropylbenzene  
Concen: 2.456 ug/L  
RT: 9.934 min Scan# 2766  
Delta R.T. 0.003 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 20490 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 27.2  | 21.6  | 32.4  |
| 77        | 14.4  | 12.0  | 18.0  |

Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ7

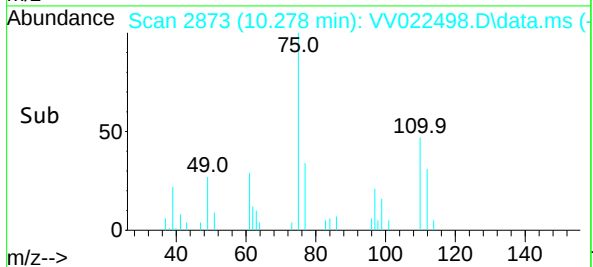
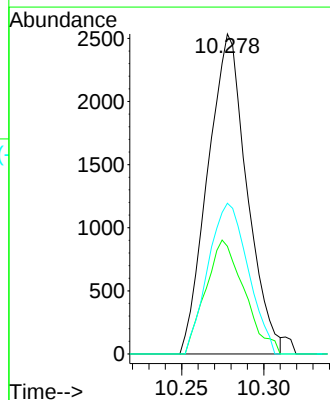
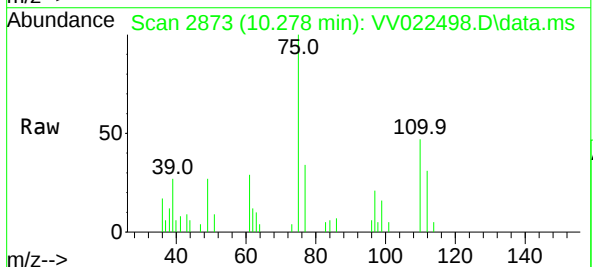
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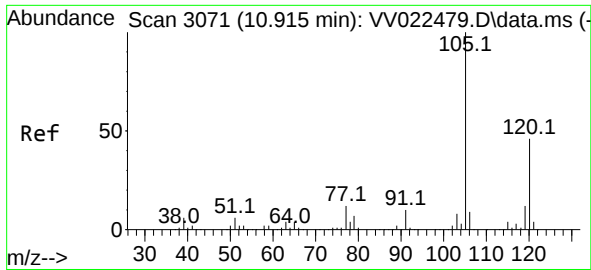
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#61  
1,2,3-Trichloropropane  
Concen: 1.684 ug/L  
RT: 10.278 min Scan# 2873  
Delta R.T. 0.003 min  
Lab File: VV022498.D  
Acq: 02 Oct 2021 05:38

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 75    | Resp: | 4199 |
| Ion Ratio | Lower | Upper |      |
| 75        | 100   |       |      |
| 77        | 35.2  | 26.0  | 39.0 |
| 110       | 48.1  | 34.3  | 51.5 |





#63  
 1,2,4-Trimethylbenzene  
 Concen: 1.095 ug/L  
 RT: 10.918 min Scan# 3072  
 Delta R.T. 0.003 min  
 Lab File: VV022498.D  
 Acq: 02 Oct 2021 05:38

Tgt Ion:105 Resp: 7649  
 Ion Ratio Lower Upper  
 105 100  
 120 47.0 37.4 56.0

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AJ7

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