

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW100121\  
 Data File : VW022500.D  
 Acq On : 02 Oct 2021 06:25  
 Operator : SY/MD  
 Sample : M4023-10  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AJ9

Quant Time: Oct 02 06:46:20 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   | 247151   | 50.000   | ug/L   | 0.00       |
| 28) Chlorobenzene-d5          | 8.857   | 117   | 250066   | 50.000   | ug/L   | 0.00       |
| 58) 1,4-Dichlorobenzene-d4    | 11.249  | 152   | 130633   | 50.000   | ug/L   | 0.00       |
| System Monitoring Compounds   |         |       |          |          |        |            |
| 4) Vinyl Chloride-d3          | 1.304   | 65    | 67968    | 44.466   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 88.940%    |
| 7) Chloroethane-d5            | 1.568   | 69    | 59656    | 49.650   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 99.300%    |
| 11) 1,1-Dichloroethene-d2     | 2.114   | 63    | 5208681  | 1728.211 | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 3456.420%# |
| 21) 2-Butanone-d5             | 3.895   | 46    | 68588    | 81.519   | ug/L   | 0.00       |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 81.520%    |
| 24) Chloroform-d              | 4.352   | 84    | 128747   | 46.102   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.200%    |
| 26) 1,2-Dichloroethane-d4     | 5.040   | 65    | 77575    | 47.885   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.780%    |
| 32) Benzene-d6                | 5.059   | 84    | 266451   | 45.994   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.980%    |
| 36) 1,2-Dichloropropane-d6    | 6.104   | 67    | 85687    | 48.046   | ug/L   | 0.04       |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 96.100%    |
| 41) Toluene-d8                | 7.320   | 98    | 248411   | 46.746   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.500%    |
| 43) trans-1,3-Dichloroprop... | 7.625   | 79    | 40035    | 47.446   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.900%    |
| 47) 2-Hexanone-d5             | 8.091   | 63    | 65783    | 89.041   | ug/L   | 0.00       |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 89.040%    |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217  | 84    | 110676   | 44.629   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 89.260%    |
| 66) 1,2-Dichlorobenzene-d4    | 11.625  | 152   | 98944    | 46.446   | ug/L   | 0.00       |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 92.900%    |
| Target Compounds              |         |       |          |          |        |            |
| 5) Vinyl chloride             | 1.307   | 62    | 30723    | 13.187   | ug/L   | 92         |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.114   | 101   | 22783    | 12.578   | ug/L # | 30         |
| 12) 1,1-Dichloroethene        | 2.117   | 96    | 8707173  | 5043.439 | ug/L # | 67         |
| 16) Methylene chloride        | 2.506   | 84    | 103024   | 47.496   | ug/L   | 98         |
| 17) trans-1,2-Dichloroethene  | 2.764   | 96    | 14681    | 7.747    | ug/L   | 99         |
| 19) 1,1-Dichloroethane        | 3.191   | 63    | 336304   | 100.289  | ug/L   | 99         |
| 20) cis-1,2-Dichloroethene    | 3.915   | 96    | 4442204  | 2200.181 | ug/L   | 96         |
| 25) Chloroform                | 4.381   | 83    | 30915    | 9.162    | ug/L   | 97         |
| 27) 1,2-Dichloroethane        | 5.143   | 62    | 22962    | 9.397    | ug/L   | 98         |
| 30) 1,1,1-Trichloroethane     | 4.625   | 97    | 20268880 | 6488.539 | ug/L   | 95         |
| 31) Carbon tetrachloride      | 4.625   | 117   | 2794045  | 1018.133 | ug/L   | 99         |
| 33) Benzene                   | 5.114   | 78    | 7466     | 0.967    | ug/L   | 100        |
| 35) Methylcyclohexane         | 6.104   | 83    | 20703    | 6.773    | ug/L # | 20         |
| 42) Toluene                   | 7.394   | 91    | 63096    | 7.758    | ug/L   | 98         |
| 44) trans-1,3-Dichloropropene | 7.625   | 75    | 1966     | 0.687    | ug/L   | 89         |
| 45) 1,1,2-Trichloroethane     | 7.841   | 97    | 128243   | 62.668   | ug/L   | 99         |
| 46) Tetrachloroethene         | 7.979   | 164   | 26639    | 15.784   | ug/L   | 98         |
| 48) 2-Hexanone                | 8.091   | 43    | 6622     | 3.117    | ug/L # | 66         |
| 52) Ethylbenzene              | 9.021   | 91    | 21070    | 2.489    | ug/L   | 97         |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV100121\  
Data File : VV022500.D  
Acq On : 02 Oct 2021 06:25  
Operator : SY/MD  
Sample : M4023-10  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 31 Sample Multiplier: 1

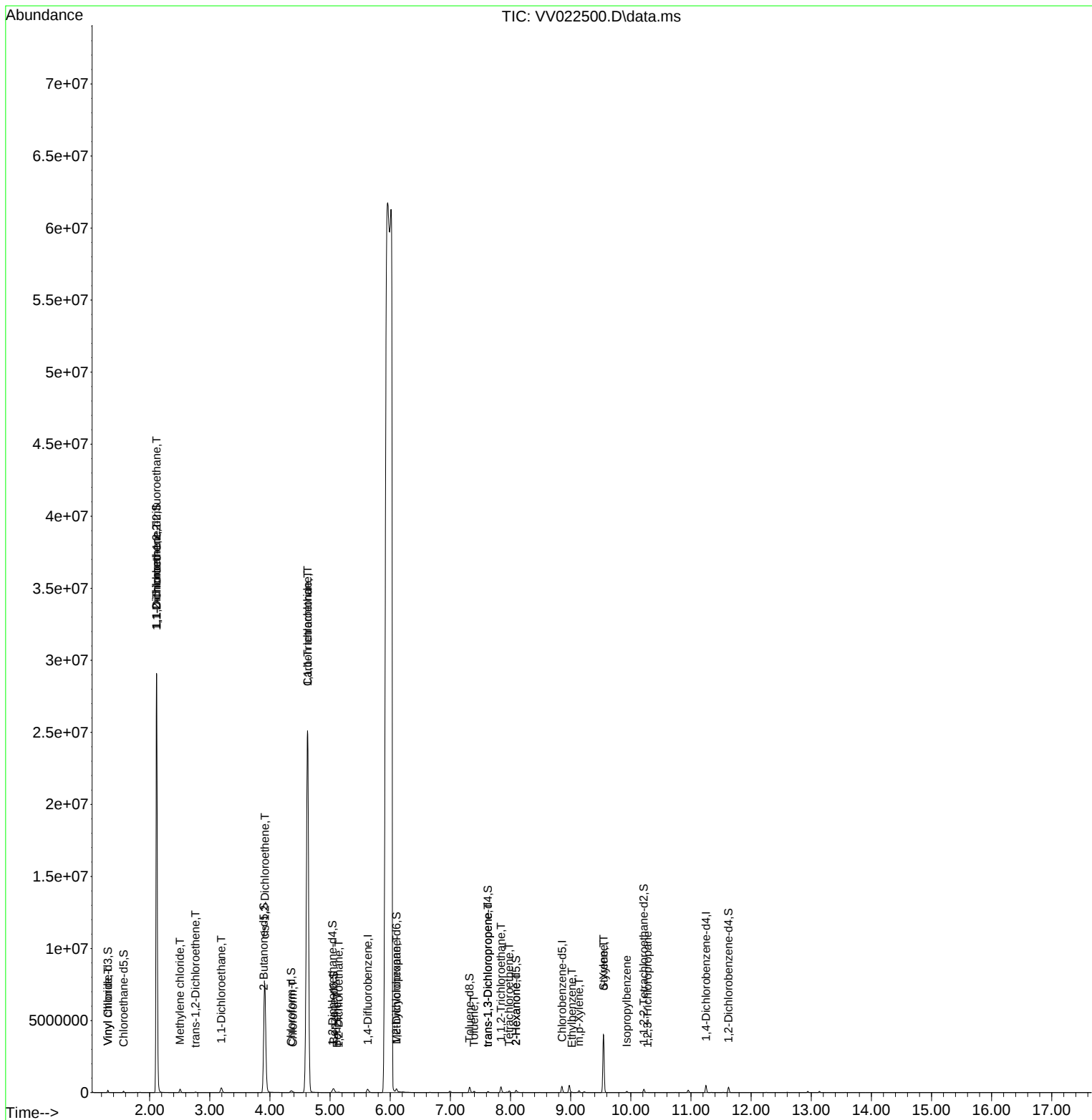
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AJ9

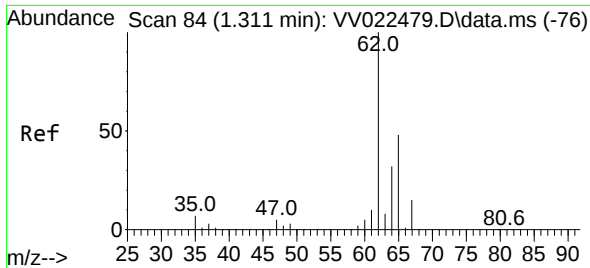
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM100121WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Oct 02 01:27:14 2021  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|----------------------------|--------|------|----------|---------|--------|----------|
| 53) m,p-Xylene             | 9.140  | 106  | 37548    | 11.196  | ug/L   | 98       |
| 54) o-Xylene               | 9.548  | 106  | 1070663  | 327.668 | ug/L   | 99       |
| 55) Styrene                | 9.548  | 104  | 51756    | 9.230   | ug/L # | 1        |
| 60) Isopropylbenzene       | 9.934  | 105  | 53554    | 6.443   | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane | 10.278 | 75   | 4195     | 1.689   | ug/L   | 97       |

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

Quant Time: Oct 02 06:46:20 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

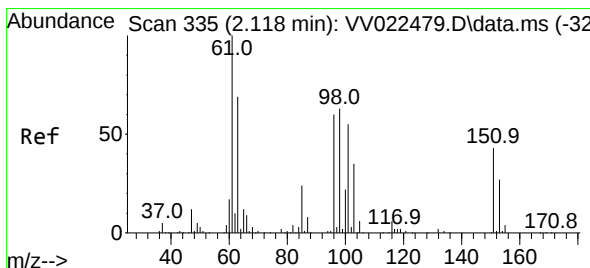
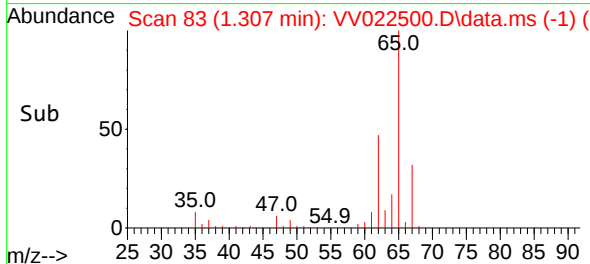
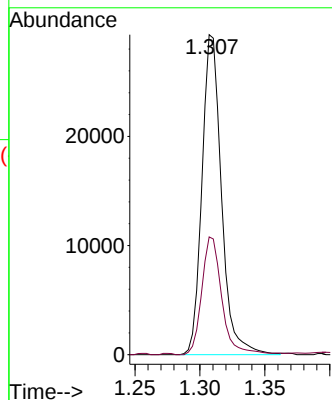
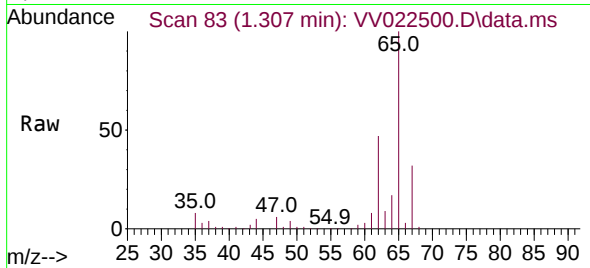




#5  
 Vinyl chloride  
 Concen: 13.187 ug/L  
 RT: 1.307 min Scan# 83  
 Delta R.T. -0.003 min  
 Lab File: VV022500.D  
 Acq: 02 Oct 2021 06:25

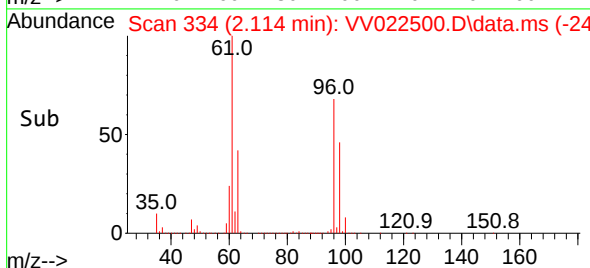
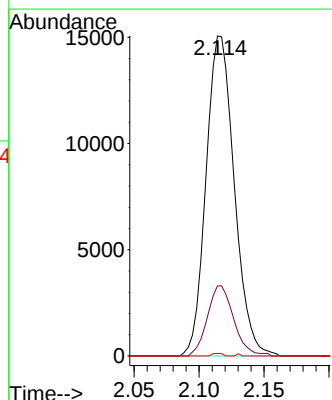
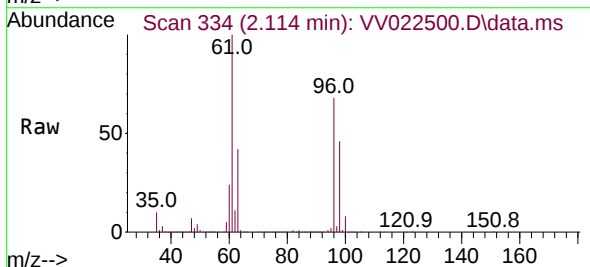
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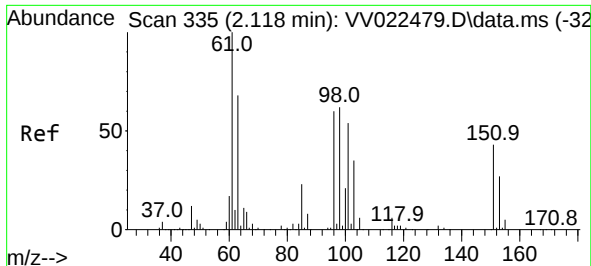
Tgt Ion: 62 Resp: 30723  
 Ion Ratio Lower Upper  
 62 100  
 64 36.8 22.5 41.9



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 12.578 ug/L  
 RT: 2.114 min Scan# 334  
 Delta R.T. -0.003 min  
 Lab File: VV022500.D  
 Acq: 02 Oct 2021 06:25

Tgt Ion: 101 Resp: 22783  
 Ion Ratio Lower Upper  
 101 100  
 85 20.3 34.7 52.1#  
 151 0.3 61.3 91.9#

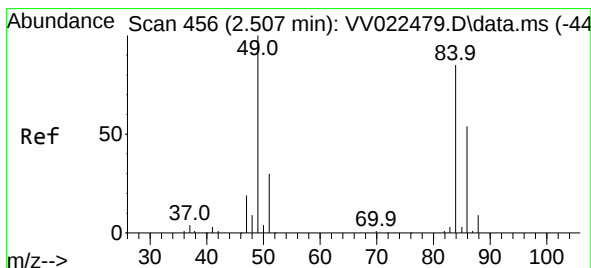
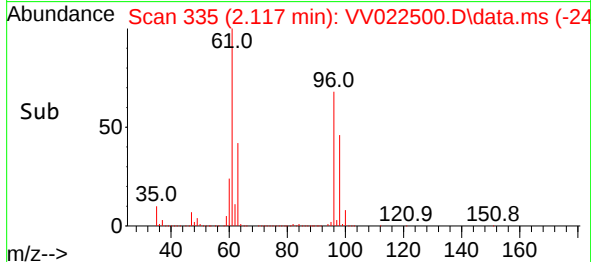
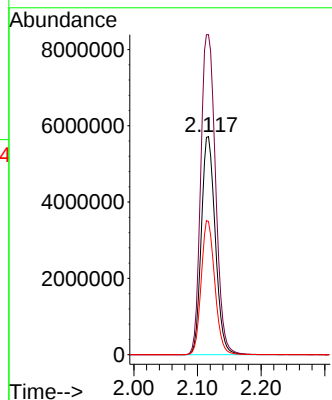
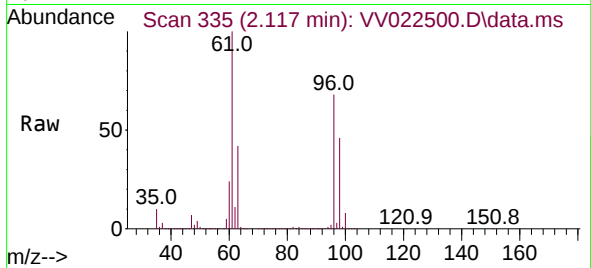




#12  
1,1-Dichloroethene  
Concen: 5043.439 ug/L  
RT: 2.117 min Scan# 335  
Delta R.T. -0.000 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

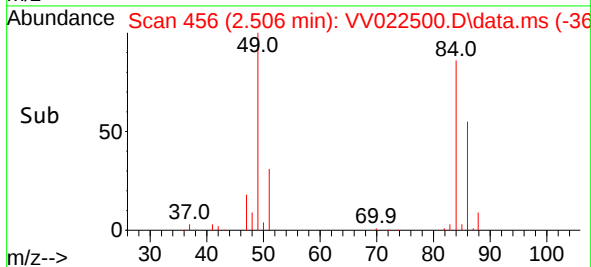
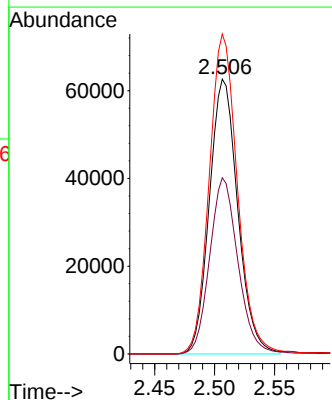
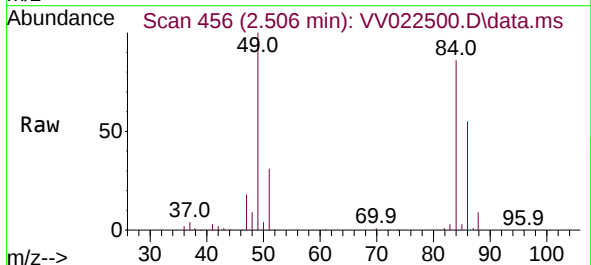
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MSVOA\_V  
ClientSampleId :  
C0AJ9

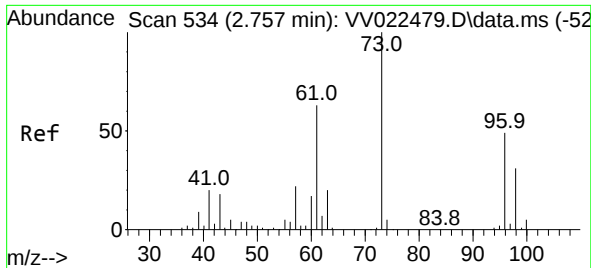
Tgt Ion: 96 Resp: 8707173  
Ion Ratio Lower Upper  
96 100  
61 146.7 118.0 219.2  
63 61.0 86.4 160.4#



#16  
Methylene chloride  
Concen: 47.496 ug/L  
RT: 2.506 min Scan# 456  
Delta R.T. -0.000 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Tgt Ion: 84 Resp: 103024  
Ion Ratio Lower Upper  
84 100  
86 64.1 45.6 84.6  
49 116.4 82.7 153.7

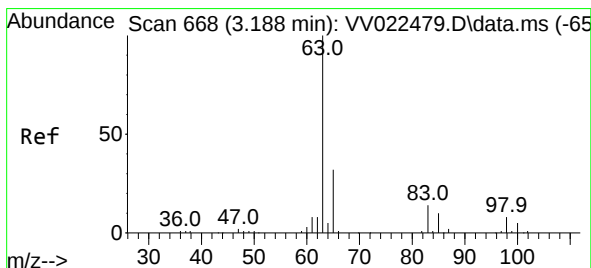
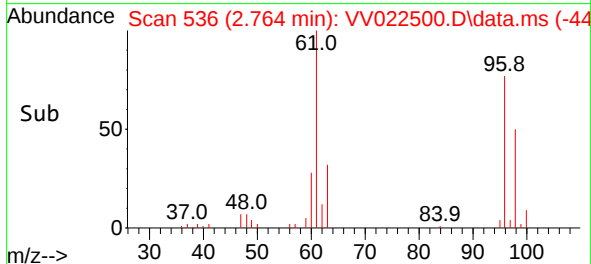
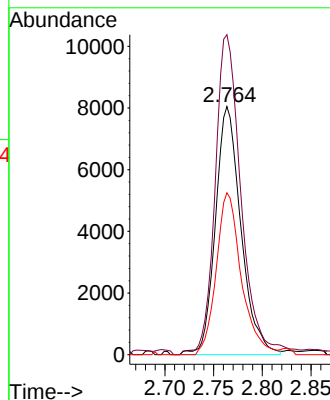
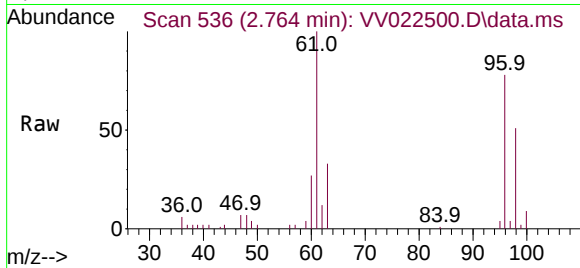




#17  
trans-1,2-Dichloroethene  
Concen: 7.747 ug/L  
RT: 2.764 min Scan# 536  
Delta R.T. 0.006 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

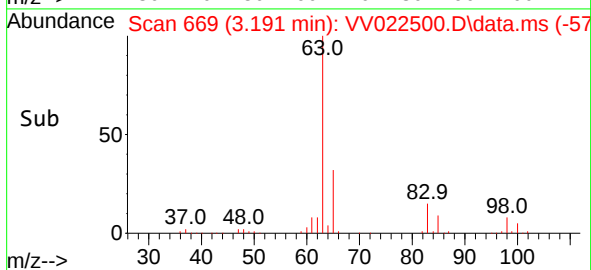
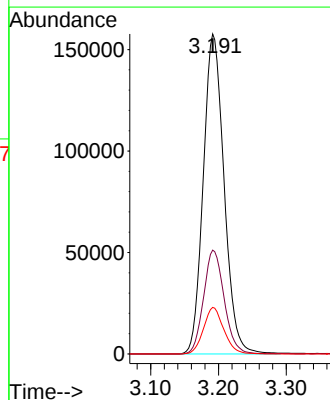
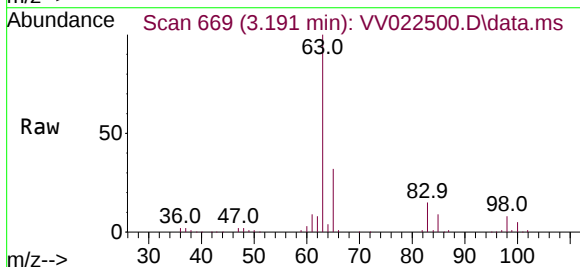
Instrument :  
MSVOA\_V  
ClientSampleId :  
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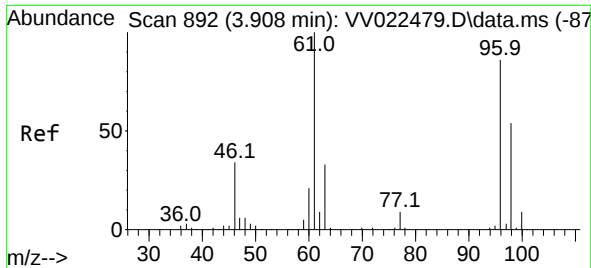
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 14681 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 128.9 | 90.8  | 168.6 |
| 98       | 65.3  | 44.0  | 81.8  |



#19  
1,1-Dichloroethane  
Concen: 100.289 ug/L  
RT: 3.191 min Scan# 669  
Delta R.T. 0.003 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 336304 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 65       | 32.4  | 22.9  | 42.5   |
| 83       | 14.5  | 9.4   | 17.4   |



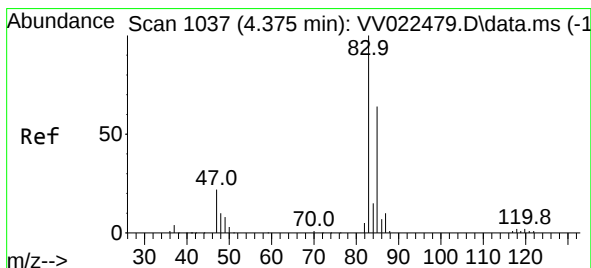
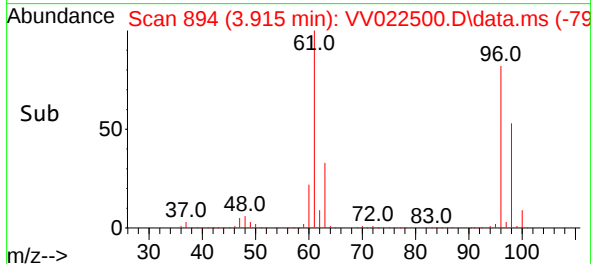
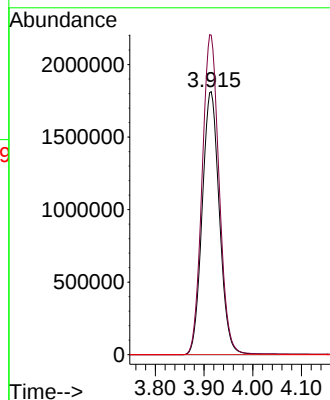
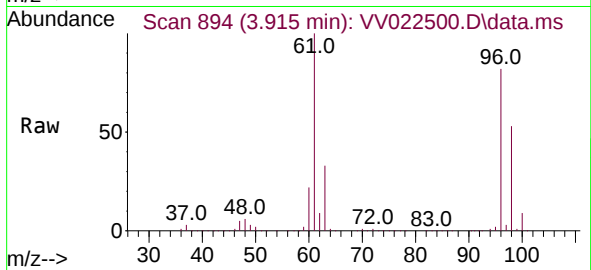


#20  
 cis-1,2-Dichloroethene  
 Concen: 2200.181 ug/L  
 RT: 3.915 min Scan# 894  
 Delta R.T. 0.006 min  
 Lab File: VV022500.D  
 Acq: 02 Oct 2021 06:25

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 C0AJ9

Tgt Ion: 96 Resp: 4442204

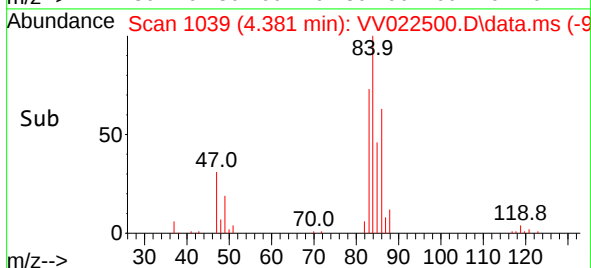
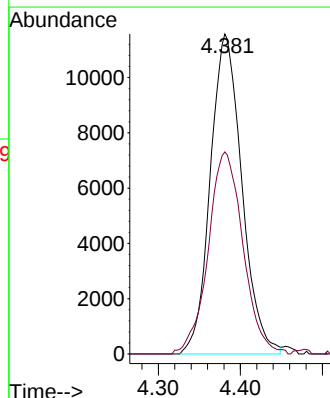
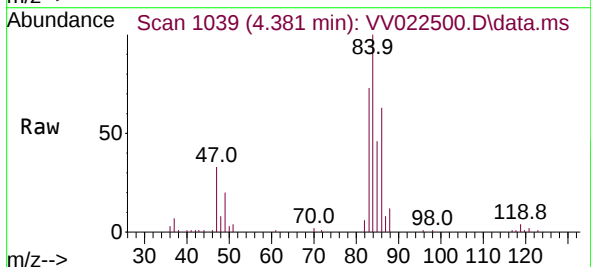
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 121.4 | 81.9  | 152.1 |
| 68  | 0.0   | 0.0   | 0.0   |

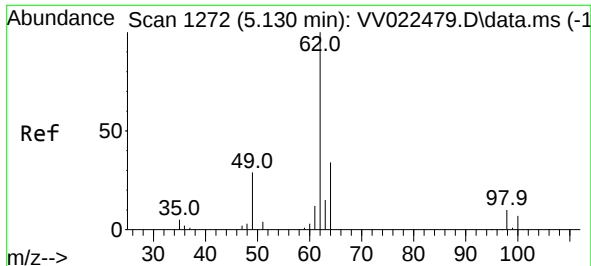


#25  
 Chloroform  
 Concen: 9.162 ug/L  
 RT: 4.381 min Scan# 1039  
 Delta R.T. 0.006 min  
 Lab File: VV022500.D  
 Acq: 02 Oct 2021 06:25

Tgt Ion: 83 Resp: 30915

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 63.2  | 45.8  | 85.0  |





#27

1,2-Dichloroethane

Concen: 9.397 ug/L

RT: 5.143 min Scan# 1276

Delta R.T. 0.013 min

Lab File: VV022500.D

Acq: 02 Oct 2021 06:25

Tgt Ion: 62 Resp: 22962

Ion Ratio Lower Upper

62 100

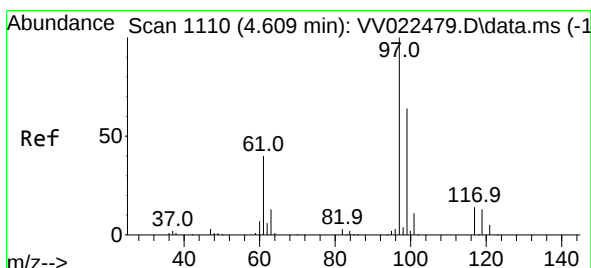
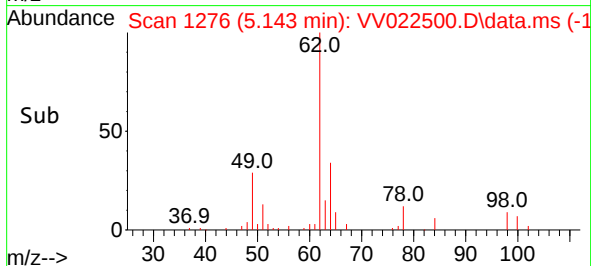
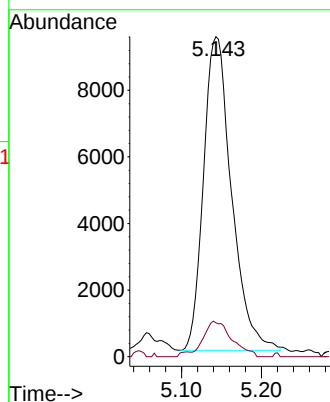
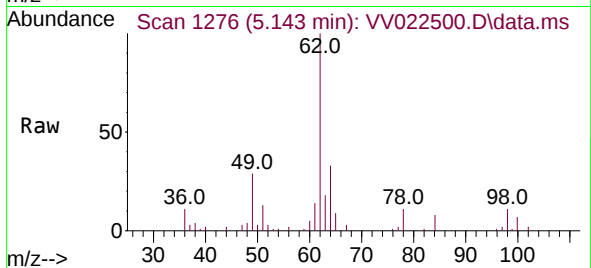
98 10.6 9.0 13.4

Instrument :

MSVOA\_V

ClientSampled :

C0AJ9



#30

1,1,1-Trichloroethane

Concen: 6488.539 ug/L

RT: 4.625 min Scan# 1115

Delta R.T. 0.016 min

Lab File: VV022500.D

Acq: 02 Oct 2021 06:25

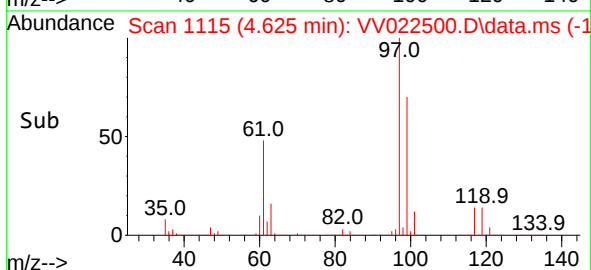
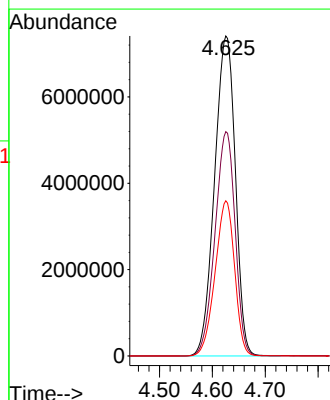
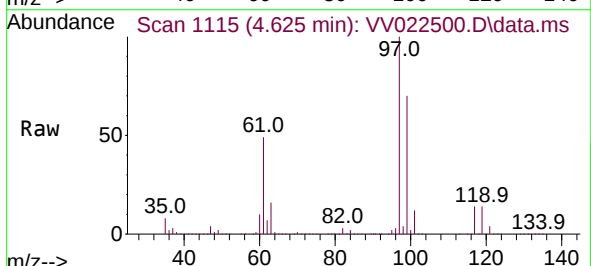
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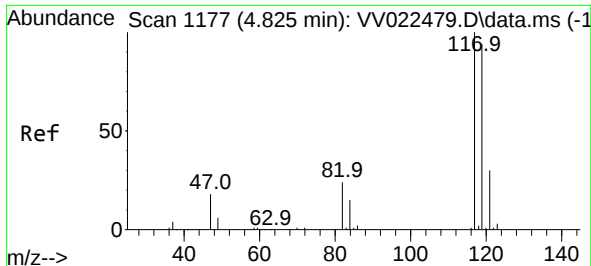
Ion Ratio Lower Upper

97 100

99 68.0 51.7 77.5

61 45.5 32.9 49.3

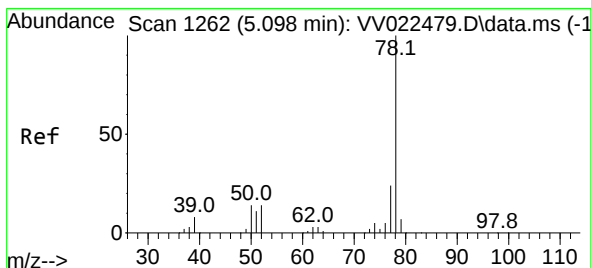
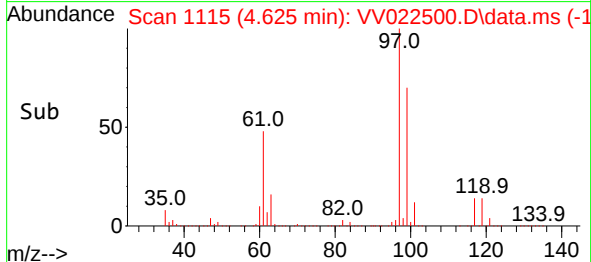
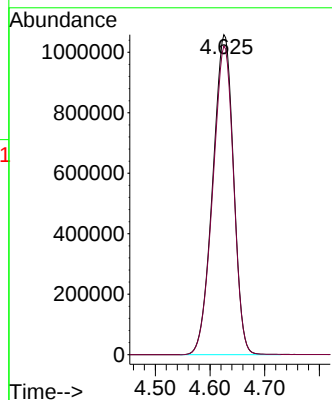
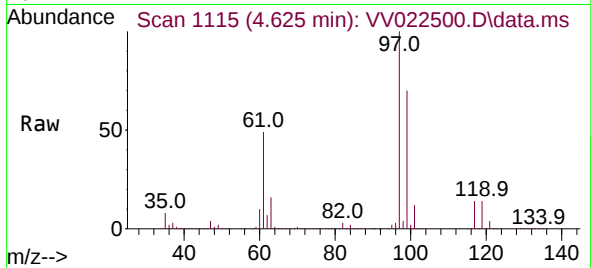




#31  
Carbon tetrachloride  
Concen: 1018.133 ug/L  
RT: 4.625 min Scan# 1115  
Delta R.T. -0.200 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

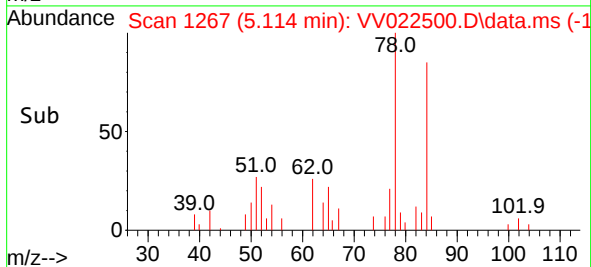
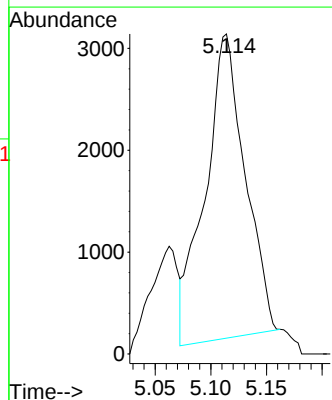
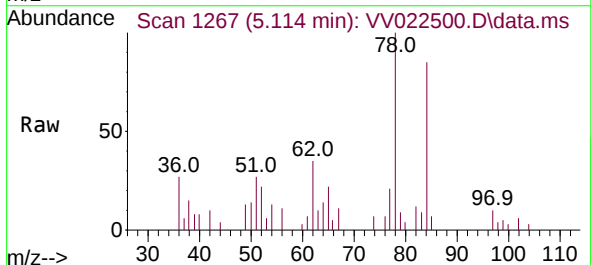
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ9

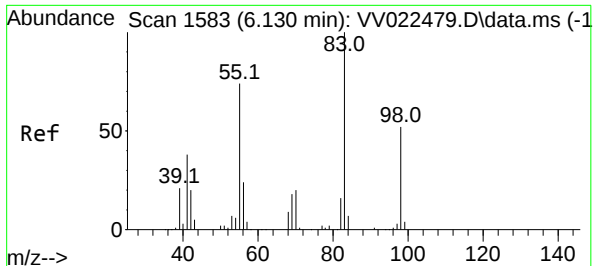
Tgt Ion:117 Resp: 2794045  
Ion Ratio Lower Upper  
117 100  
119 96.4 78.3 117.5



#33  
Benzene  
Concen: 0.967 ug/L  
RT: 5.114 min Scan# 1267  
Delta R.T. 0.016 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Tgt Ion: 78 Resp: 7466

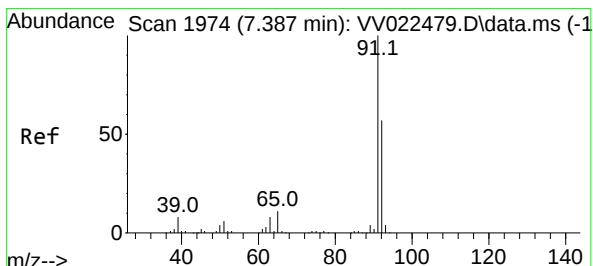
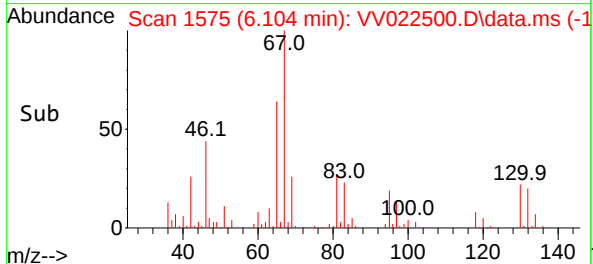
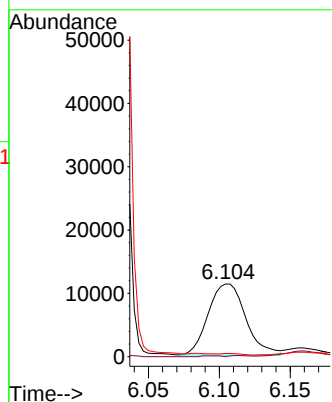
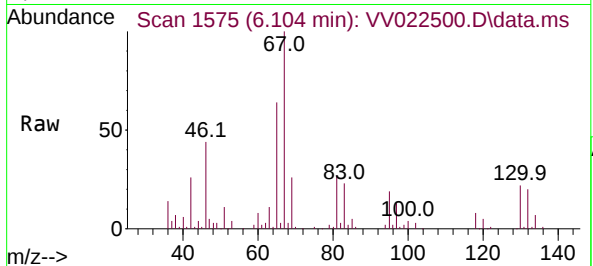




#35  
Methylcyclohexane  
Concen: 6.773 ug/L  
RT: 6.104 min Scan# 1575  
Delta R.T. -0.026 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

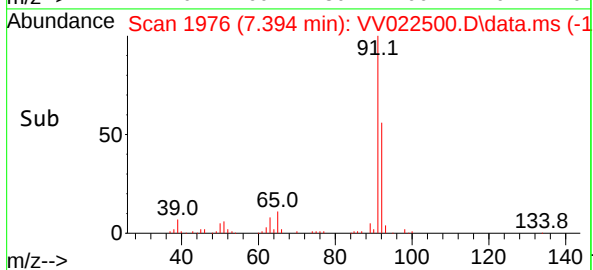
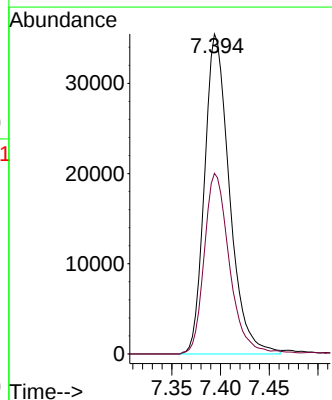
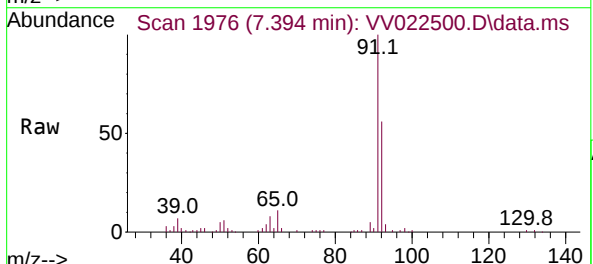
Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AJ9

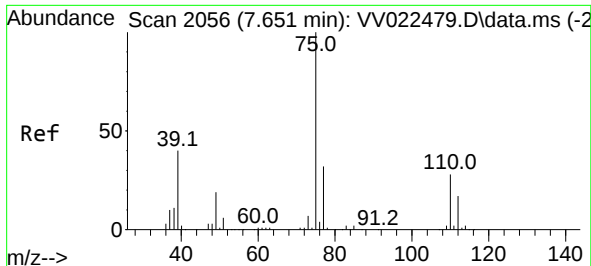
Tgt Ion: 83 Resp: 20703  
Ion Ratio Lower Upper  
83 100  
55 0.9 56.7 85.1#  
98 0.0 40.6 60.8#



#42  
Toluene  
Concen: 7.758 ug/L  
RT: 7.394 min Scan# 1976  
Delta R.T. 0.006 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Tgt Ion: 91 Resp: 63096  
Ion Ratio Lower Upper  
91 100  
92 56.4 40.6 75.4

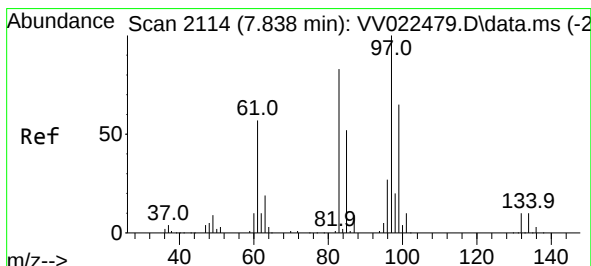
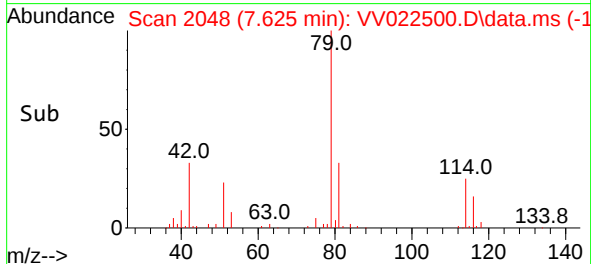
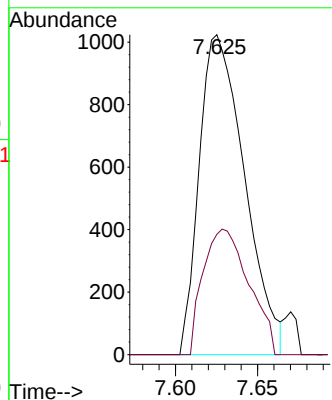
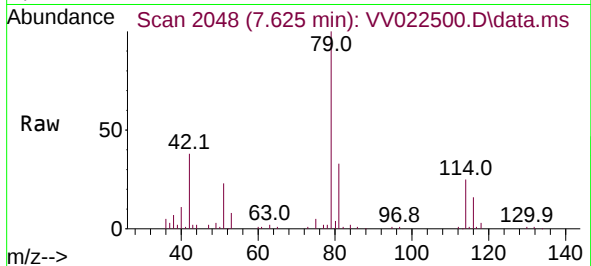




#44  
trans-1,3-Dichloropropene  
Concen: 0.687 ug/L  
RT: 7.625 min Scan# 2048  
Delta R.T. -0.026 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

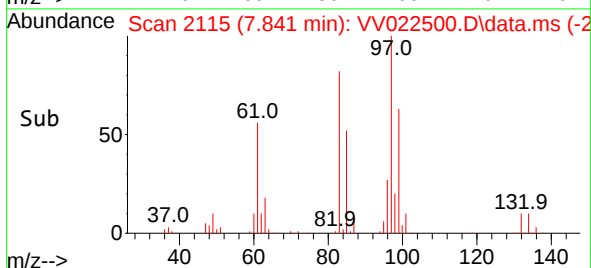
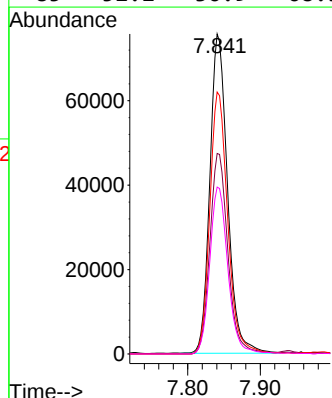
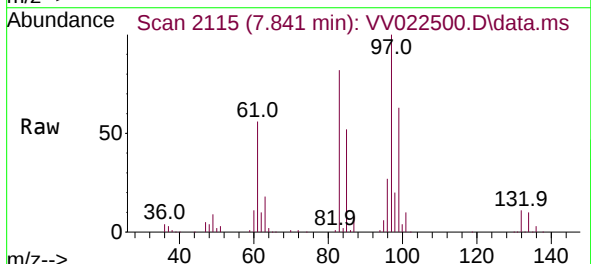
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ9

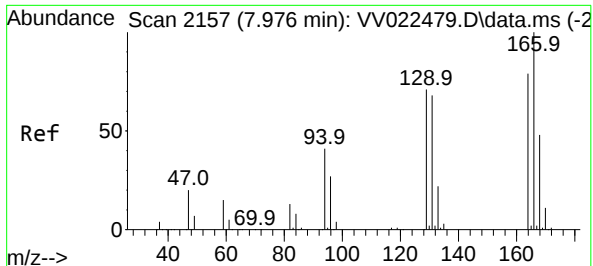
Tgt Ion: 75 Resp: 1966  
Ion Ratio Lower Upper  
75 100  
77 37.6 22.0 40.8



#45  
1,1,2-Trichloroethane  
Concen: 62.668 ug/L  
RT: 7.841 min Scan# 2115  
Delta R.T. 0.003 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Tgt Ion: 97 Resp: 128243  
Ion Ratio Lower Upper  
97 100  
99 62.7 43.1 80.1  
83 81.9 58.6 108.8  
85 52.2 36.9 68.5

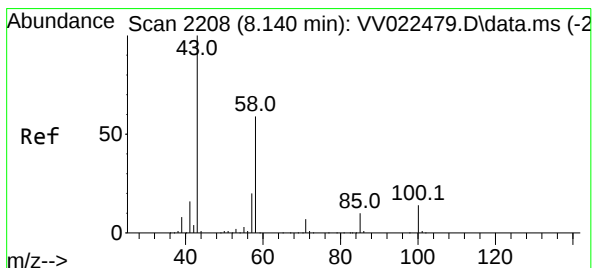
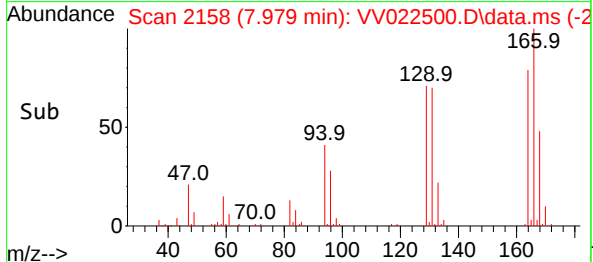
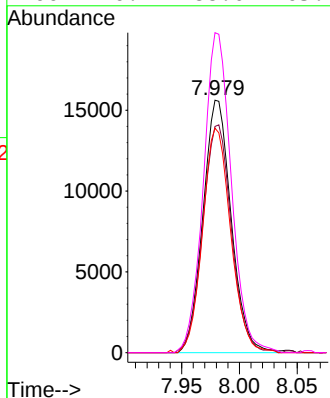
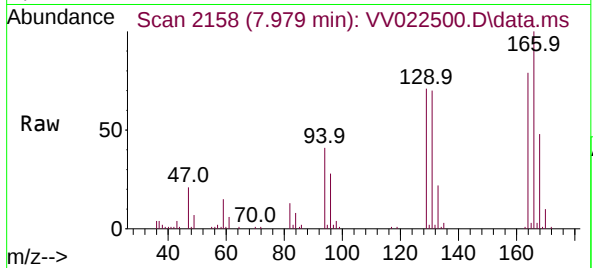




#46  
Tetrachloroethene  
Concen: 15.784 ug/L  
RT: 7.979 min Scan# 2158  
Delta R.T. 0.003 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

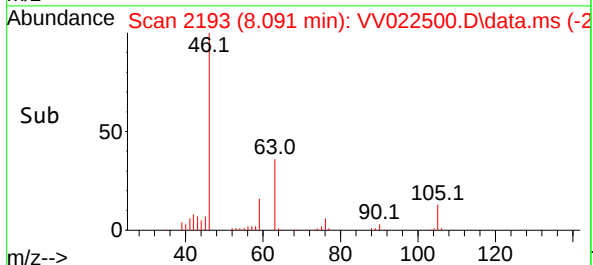
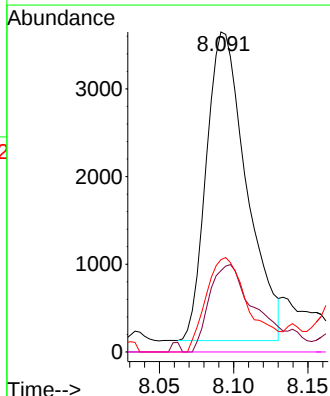
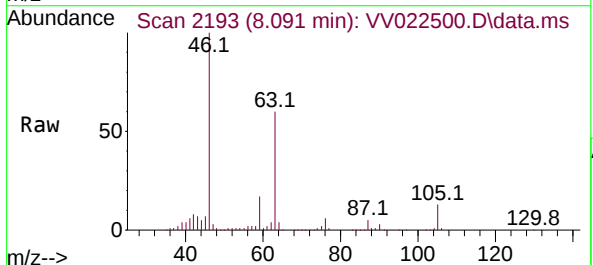
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ9

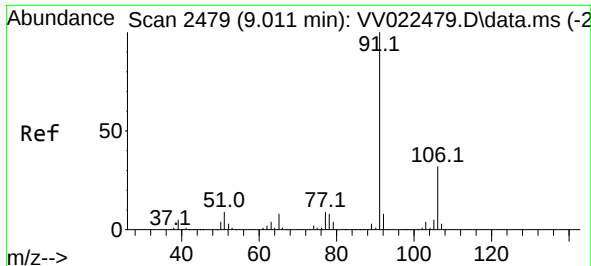
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:164 | Resp: | 26639       |
| Ion         | Ratio | Lower Upper |
| 164         | 100   |             |
| 129         | 89.6  | 64.6 120.0  |
| 131         | 88.9  | 59.9 111.3  |
| 166         | 126.7 | 88.0 163.4  |



#48  
2-Hexanone  
Concen: 3.117 ug/L  
RT: 8.091 min Scan# 2193  
Delta R.T. -0.048 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 6622        |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 58          | 32.5  | 47.0 70.4#  |
| 57          | 33.3  | 15.8 23.6#  |
| 100         | 0.0   | 11.8 17.6#  |

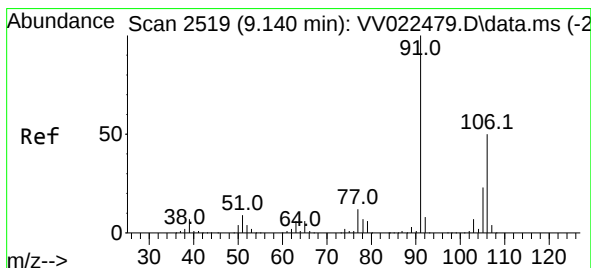
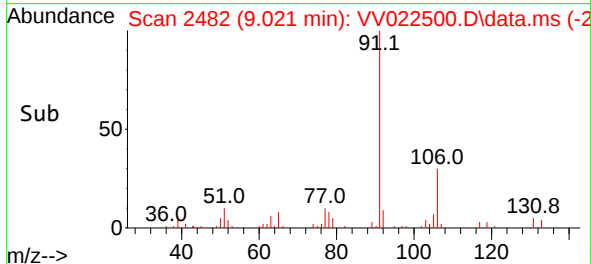
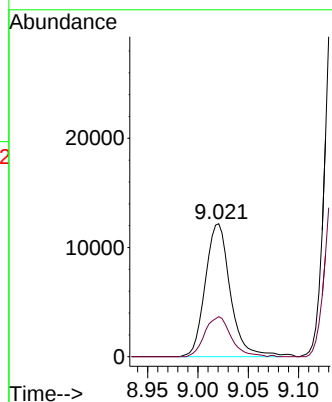
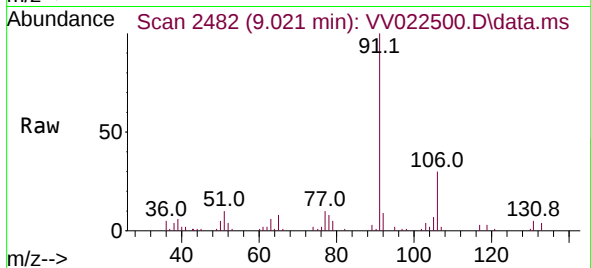




#52  
Ethylbenzene  
Concen: 2.489 ug/L  
RT: 9.021 min Scan# 2482  
Delta R.T. 0.009 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

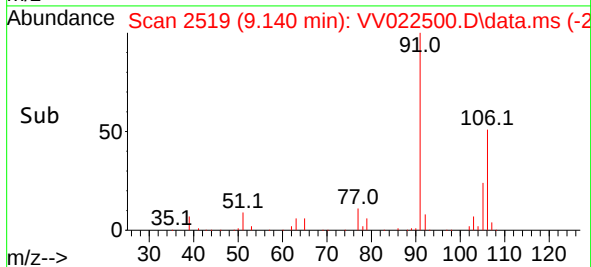
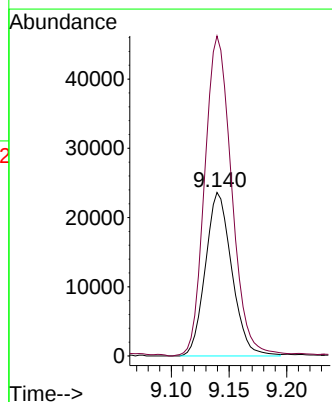
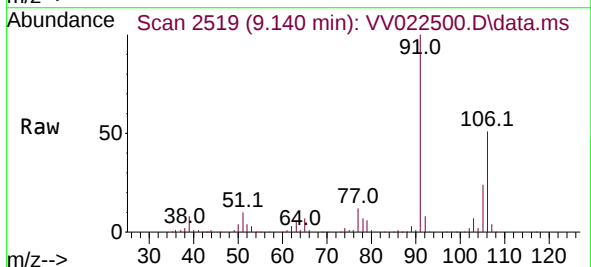
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ9

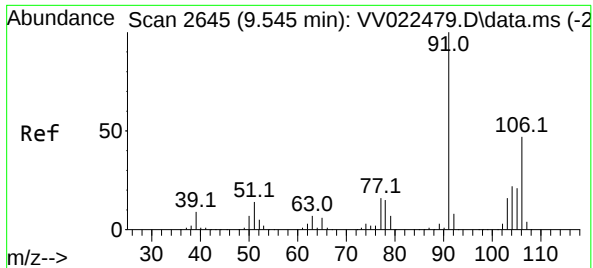
Tgt Ion: 91 Resp: 21070  
Ion Ratio Lower Upper  
91 100  
106 30.0 22.0 41.0



#53  
m,p-Xylene  
Concen: 11.196 ug/L  
RT: 9.140 min Scan# 2519  
Delta R.T. -0.000 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Tgt Ion: 106 Resp: 37548  
Ion Ratio Lower Upper  
106 100  
91 195.6 139.4 258.8

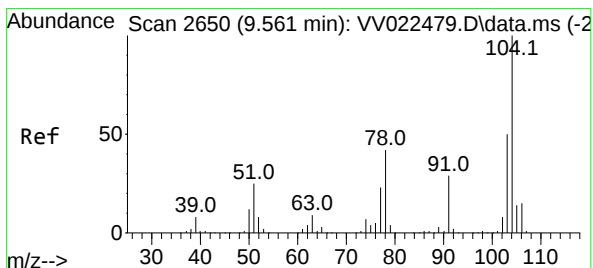
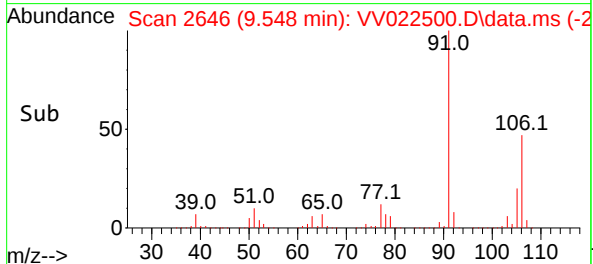
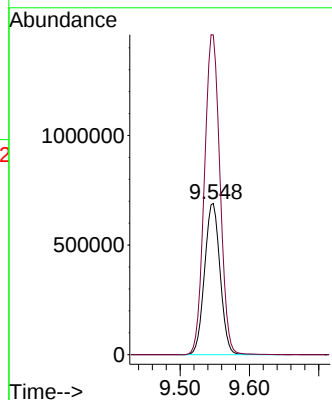
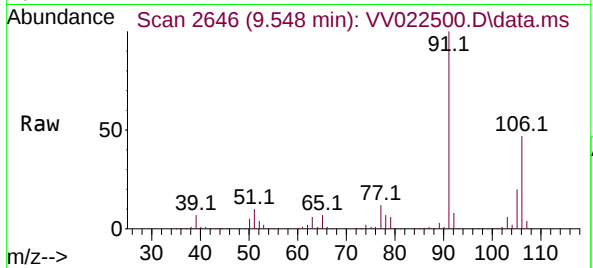




#54  
o-Xylene  
Concen: 327.668 ug/L  
RT: 9.548 min Scan# 2646  
Delta R.T. 0.003 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

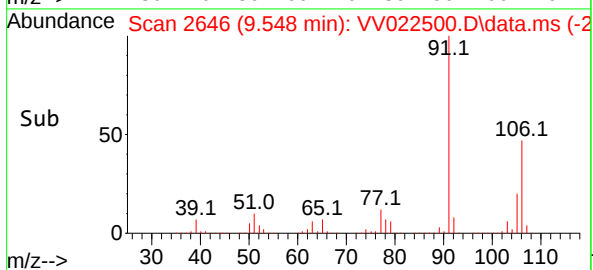
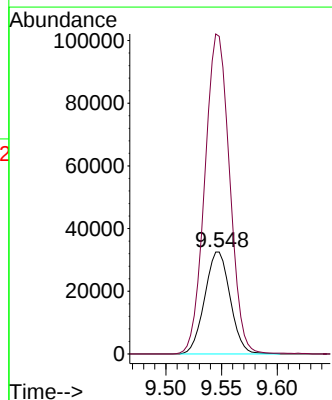
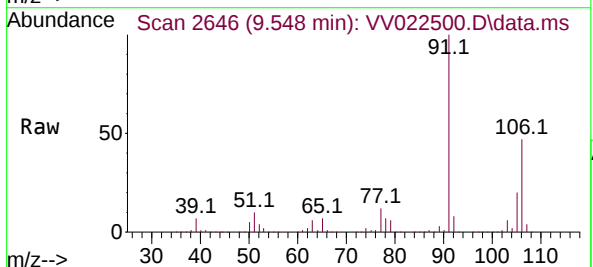
Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ9

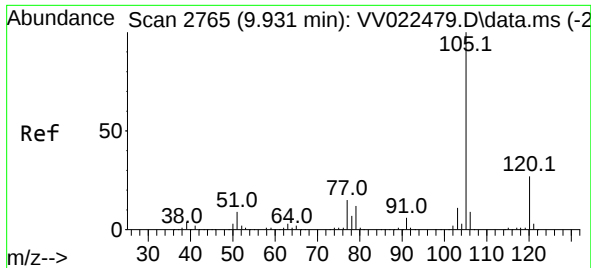
Tgt Ion:106 Resp: 1070663  
Ion Ratio Lower Upper  
106 100  
91 211.3 148.7 276.1



#55  
Styrene  
Concen: 9.230 ug/L  
RT: 9.548 min Scan# 2646  
Delta R.T. -0.013 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Tgt Ion:104 Resp: 51756  
Ion Ratio Lower Upper  
104 100  
78 311.7 30.6 56.8#

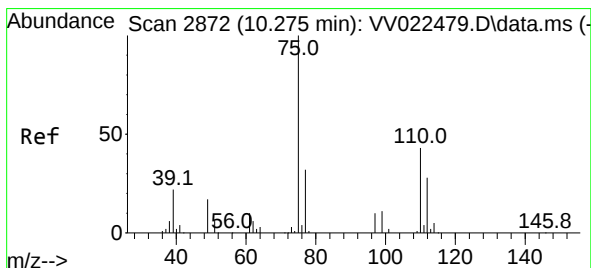
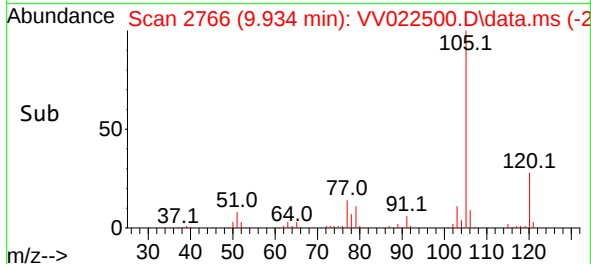
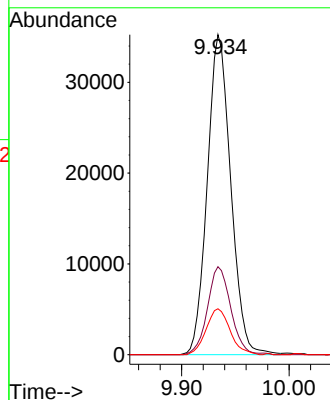
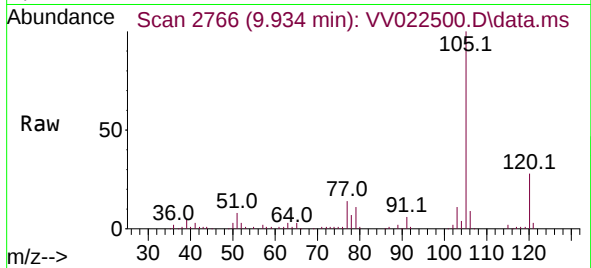




#60  
Isopropylbenzene  
Concen: 6.443 ug/L  
RT: 9.934 min Scan# 2766  
Delta R.T. 0.003 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Instrument :  
MSVOA\_V  
ClientSampled :  
C0AJ9

Tgt Ion:105 Resp: 53554  
Ion Ratio Lower Upper  
105 100  
120 27.1 21.6 32.4  
77 14.6 12.0 18.0



#61  
1,2,3-Trichloropropane  
Concen: 1.689 ug/L  
RT: 10.278 min Scan# 2873  
Delta R.T. 0.003 min  
Lab File: VV022500.D  
Acq: 02 Oct 2021 06:25

Tgt Ion: 75 Resp: 4195  
Ion Ratio Lower Upper  
75 100  
77 35.3 26.0 39.0  
110 42.3 34.3 51.5

