

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW122024\  
 Data File : VW031453.D  
 Acq On : 21 Dec 2024 02:15  
 Operator : SY/MD  
 Sample : P5331-03MSD  
 Misc : 5.37g/10mL/MSVOA\_W/SOIL/A  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Dec 21 02:59:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM121324SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Dec 20 23:42:37 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.837  | 114   | 807375   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.629 | 117   | 714546   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.556 | 152   | 307307   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.357  | 65    | 161240   | 13.273   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 53.080%  |
| 7) Chloroethane-d5            | 2.893  | 69    | 141046   | 15.696   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 62.800%  |
| 11) 1,1-Dichloroethene-d2     | 4.015  | 65    | 71660    | 12.436   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 49.760%  |
| 21) 2-Butanone-d5             | 7.093  | 46    | 45987    | 20.101   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 40.200%  |
| 24) Chloroform-d              | 7.648  | 84    | 353430   | 15.977   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 63.920%  |
| 26) 1,2-Dichloroethane-d4     | 8.301  | 65    | 187571   | 16.884   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 67.520%# |
| 32) Benzene-d6                | 8.270  | 84    | 692944   | 15.130   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 60.520%  |
| 36) 1,2-Dichloropropane-d6    | 9.270  | 67    | 211540   | 15.848   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 63.400%# |
| 41) Toluene-d8                | 10.325 | 98    | 622347   | 14.607   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 58.440%  |
| 43) trans-1,3-Dichloroprop... | 10.575 | 79    | 69709    | 11.326   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 45.320%  |
| 47) 2-Hexanone-d5             | 10.922 | 63    | 37238    | 20.745   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 41.500%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.690 | 84    | 144739   | 17.271   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 69.080%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.848 | 152   | 176184   | 15.443   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 61.760%# |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.009  | 85    | 67281    | 9.221    | ug/L   | 94       |
| 3) Chloromethane              | 2.210  | 50    | 89810    | 10.956   | ug/L   | 98       |
| 5) Vinyl chloride             | 2.363  | 62    | 130055   | 11.448   | ug/L   | 99       |
| 6) Bromomethane               | 2.783  | 94    | 67613    | 9.681    | ug/L   | 100      |
| 8) Chloroethane               | 2.930  | 64    | 92756    | 13.730   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 3.259  | 101   | 135395   | 11.188   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 4.070  | 101   | 107570   | 11.007   | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 4.033  | 96    | 105334   | 10.642   | ug/L   | 82       |
| 13) Acetone                   | 4.167  | 43    | 53580    | 16.817   | ug/L # | 100      |
| 14) Carbon disulfide          | 4.381  | 76    | 258669   | 8.013    | ug/L   | 100      |
| 15) Methyl Acetate            | 4.691  | 43    | 25770    | 7.121    | ug/L   | 98       |
| 16) Methylene chloride        | 4.917  | 84    | 140275   | 13.809   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 5.423  | 96    | 126413   | 11.849   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 5.429  | 73    | 259314   | 14.539   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.216  | 63    | 261563   | 13.120   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 7.167  | 96    | 154660   | 13.398   | ug/L   | 99       |
| 22) 2-Butanone                | 7.185  | 43    | 78729    | 20.394   | ug/L   | 95       |
| 23) Bromochloromethane        | 7.514  | 128   | 66985    | 14.550   | ug/L   | 84       |
| 25) Chloroform                | 7.673  | 83    | 279661   | 14.213   | ug/L   | 98       |

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 Operator : SY/MD  
 Sample : P5331-03MSD  
 Misc : 5.37g/10mL/MSVOA\_W/SOIL/A  
 ALS Vial : 44 Sample Multiplier: 1

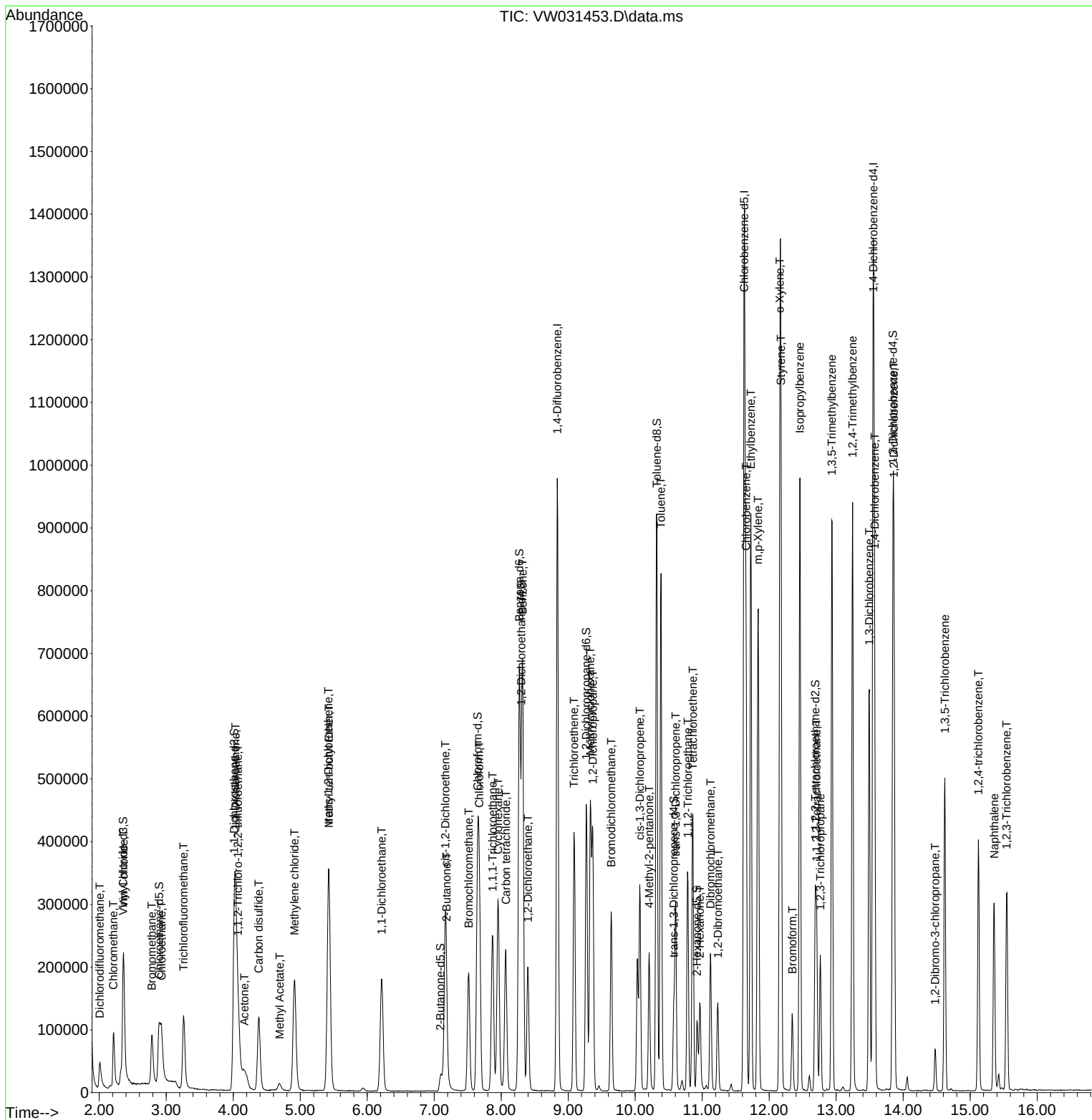
Instrument :  
 MSVOA\_W  
 ClientSampleId :

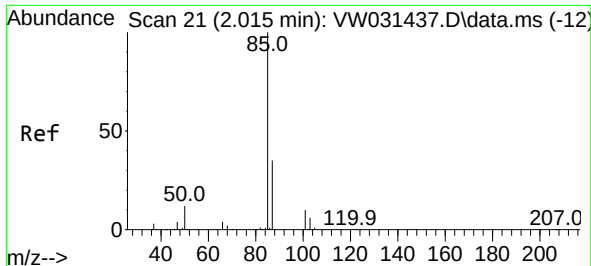
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 Quant Title : SFAM01.0  
 QLast Update : Fri Dec 20 23:42:37 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.398  | 62   | 184802   | 14.939 | ug/L  | 99       |
| 29) Cyclohexane               | 7.953  | 56   | 175631   | 9.063  | ug/L  | 97       |
| 30) 1,1,1-Trichloroethane     | 7.874  | 97   | 202611   | 10.970 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 8.069  | 117  | 165781   | 10.075 | ug/L  | 99       |
| 33) Benzene                   | 8.319  | 78   | 559816   | 12.678 | ug/L  | 100      |
| 34) Trichloroethene           | 9.087  | 95   | 145605   | 11.680 | ug/L  | 99       |
| 35) Methylcyclohexane         | 9.331  | 83   | 188999   | 8.705  | ug/L  | 96       |
| 37) 1,2-Dichloropropane       | 9.367  | 63   | 152085   | 13.806 | ug/L  | 99       |
| 38) Bromodichloromethane      | 9.642  | 83   | 190561   | 13.307 | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene   | 10.069 | 75   | 190400   | 10.229 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 10.209 | 43   | 142669   | 24.412 | ug/L  | 99       |
| 42) Toluene                   | 10.386 | 91   | 592980   | 12.334 | ug/L  | 97       |
| 44) trans-1,3-Dichloropropene | 10.605 | 75   | 162396   | 10.684 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 10.788 | 97   | 108946   | 14.869 | ug/L  | 98       |
| 46) Tetrachloroethene         | 10.861 | 164  | 96968    | 10.619 | ug/L  | 99       |
| 48) 2-Hexanone                | 10.965 | 43   | 98800    | 19.877 | ug/L  | 95       |
| 49) Dibromochloromethane      | 11.123 | 129  | 111778   | 12.870 | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 11.233 | 107  | 97495    | 14.046 | ug/L  | 97       |
| 51) Chlorobenzene             | 11.654 | 112  | 386127   | 12.810 | ug/L  | 99       |
| 52) Ethylbenzene              | 11.727 | 91   | 647857   | 11.627 | ug/L  | 94       |
| 53) m,p-Xylene                | 11.837 | 106  | 249267   | 11.752 | ug/L  | 100      |
| 54) o-Xylene                  | 12.160 | 106  | 247188   | 12.365 | ug/L  | 96       |
| 55) Styrene                   | 12.178 | 104  | 412362   | 12.401 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 12.708 | 83   | 120861   | 15.302 | ug/L  | 100      |
| 59) Bromoform                 | 12.349 | 173  | 52859    | 12.244 | ug/L  | 99       |
| 60) Isopropylbenzene          | 12.458 | 105  | 613685   | 12.203 | ug/L  | 98       |
| 61) 1,2,3-Trichloropropane    | 12.763 | 75   | 88101    | 16.754 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.934 | 105  | 500100   | 11.729 | ug/L  | 95       |
| 63) 1,2,4-Trimethylbenzene    | 13.245 | 105  | 501138   | 12.161 | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 13.495 | 146  | 257888   | 12.657 | ug/L  | 92       |
| 65) 1,4-Dichlorobenzene       | 13.574 | 146  | 264653   | 13.109 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 13.861 | 146  | 241127   | 13.735 | ug/L  | 90       |
| 68) 1,2-Dibromo-3-chloropr... | 14.476 | 75   | 17403    | 13.041 | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 14.623 | 180  | 148664   | 10.418 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.123 | 180  | 115979   | 9.770  | ug/L  | 99       |
| 71) Naphthalene               | 15.360 | 128  | 258303   | 12.412 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.543 | 180  | 107275   | 11.217 | ug/L  | 99       |

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

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Response via : Initial Calibration

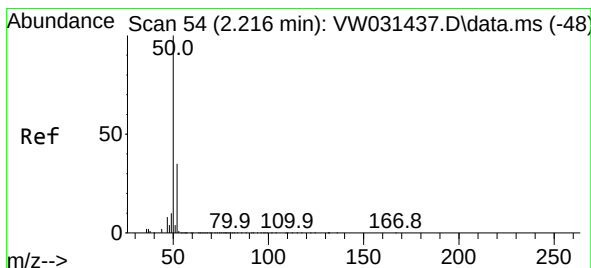
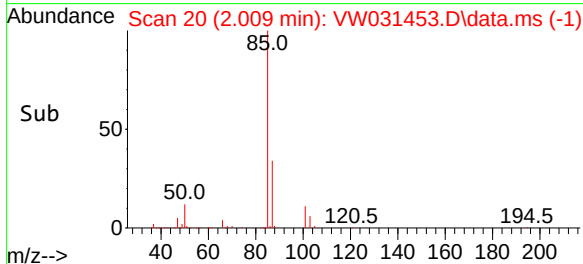
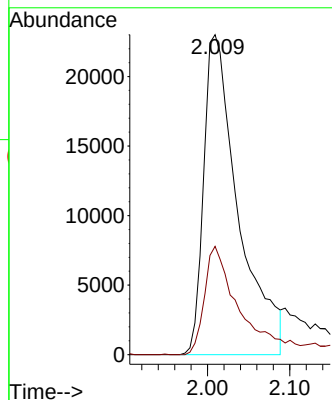
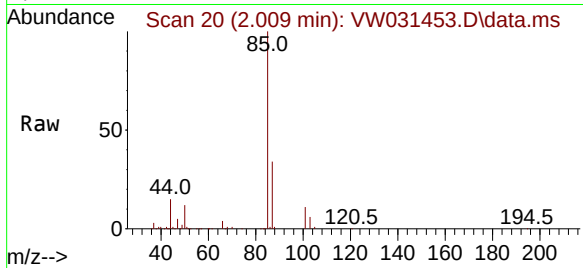




#2  
 Dichlorodifluoromethane  
 Concen: 9.221 ug/L  
 RT: 2.009 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

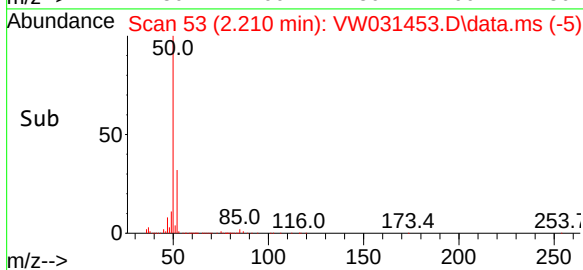
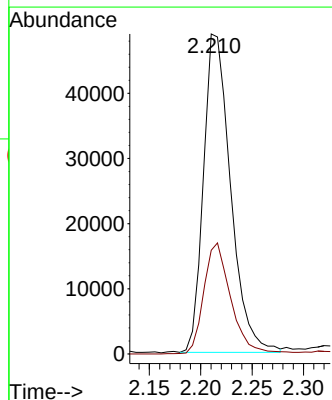
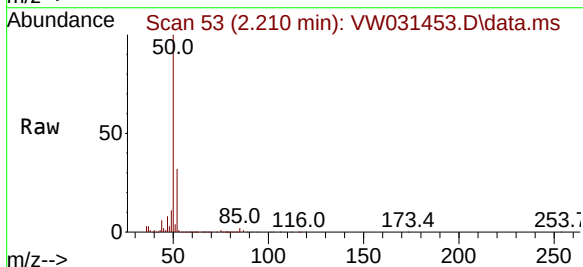
Instrument :  
 MSVOA\_W  
 ClientSampleId :

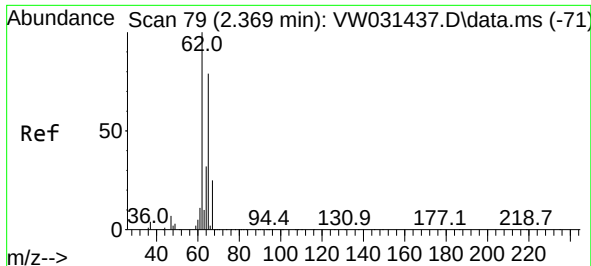
Tgt Ion: 85 Resp: 67281  
 Ion Ratio Lower Upper  
 85 100  
 87 34.5 24.9 37.3



#3  
 Chloromethane  
 Concen: 10.956 ug/L  
 RT: 2.210 min Scan# 53  
 Delta R.T. -0.006 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

Tgt Ion: 50 Resp: 89810  
 Ion Ratio Lower Upper  
 50 100  
 52 32.4 22.0 41.0

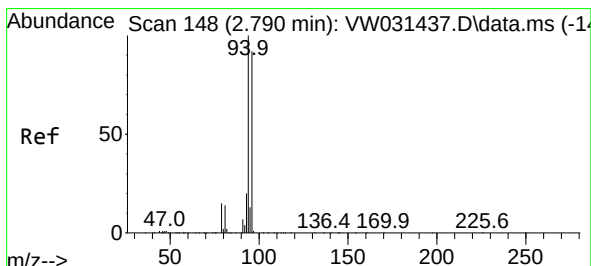
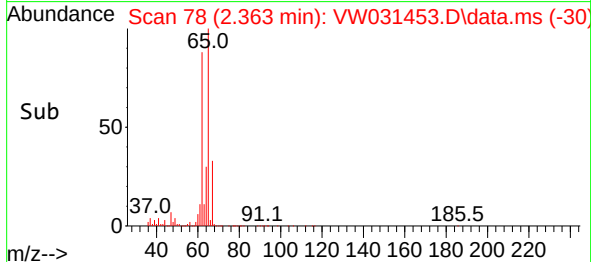
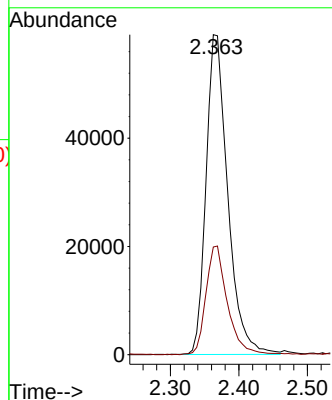
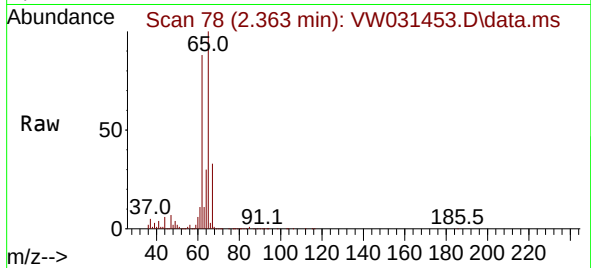




#5  
 Vinyl chloride  
 Concen: 11.448 ug/L  
 RT: 2.363 min Scan# 79  
 Delta R.T. -0.006 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

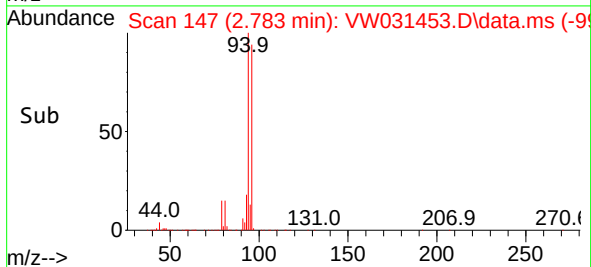
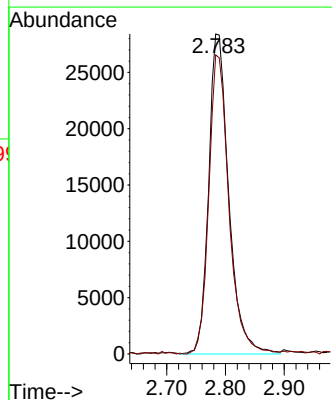
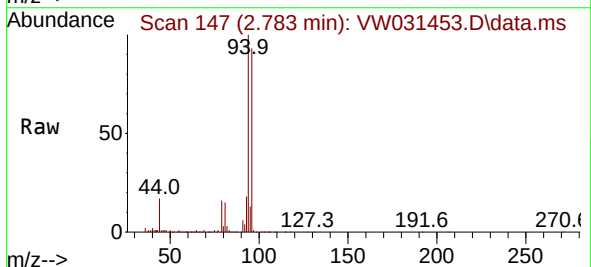
Instrument :  
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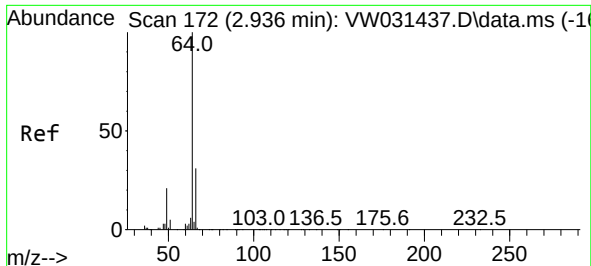
Tgt Ion: 62 Resp: 130055  
 Ion Ratio Lower Upper  
 62 100  
 64 33.7 24.1 44.8



#6  
 Bromomethane  
 Concen: 9.681 ug/L  
 RT: 2.783 min Scan# 147  
 Delta R.T. -0.006 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

Tgt Ion: 94 Resp: 67613  
 Ion Ratio Lower Upper  
 94 100  
 96 93.5 65.6 121.8

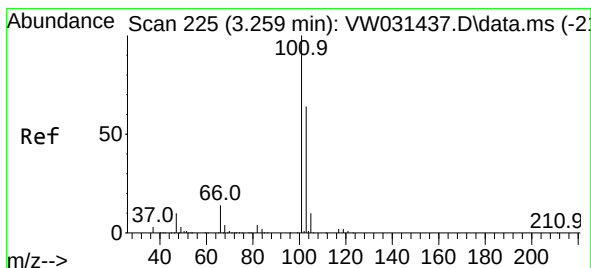
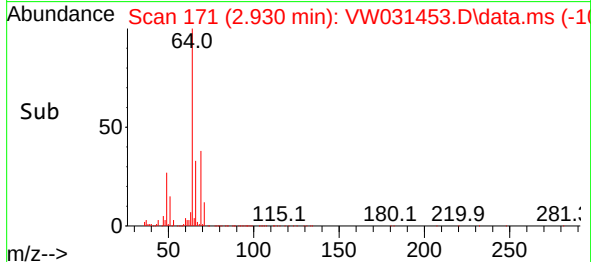
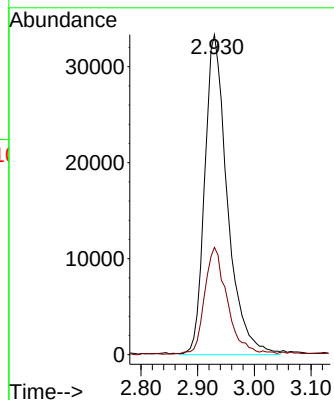
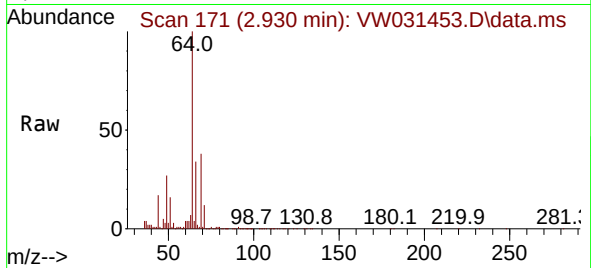




#8  
Chloroethane  
Concen: 13.730 ug/L  
RT: 2.930 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

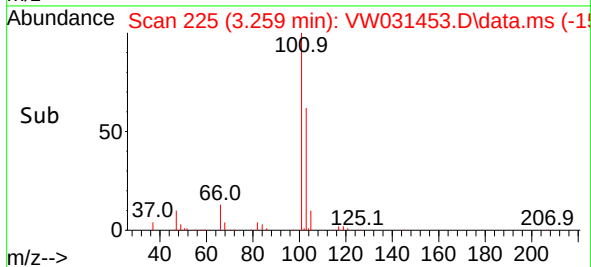
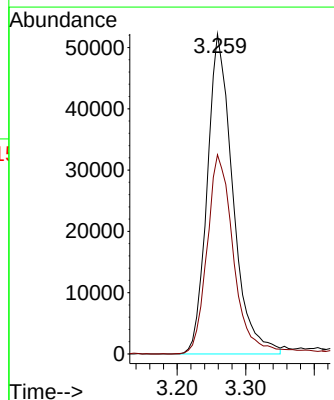
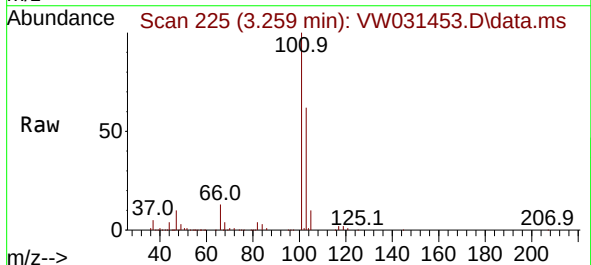
Instrument :  
MSVOA\_W  
ClientSampleId :

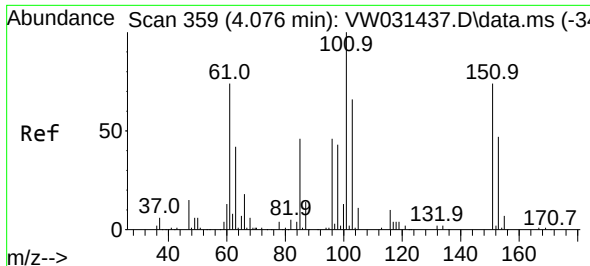
Tgt Ion: 64 Resp: 92756  
Ion Ratio Lower Upper  
64 100  
66 33.6 22.7 42.3



#9  
Trichlorofluoromethane  
Concen: 11.188 ug/L  
RT: 3.259 min Scan# 225  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion: 101 Resp: 135395  
Ion Ratio Lower Upper  
101 100  
103 64.3 51.6 77.4

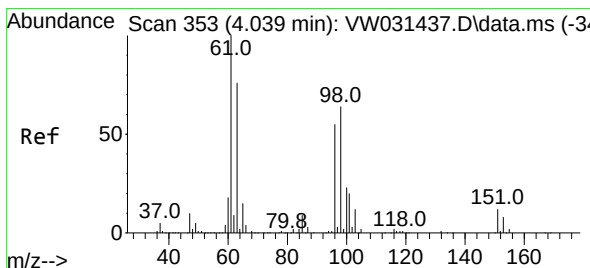
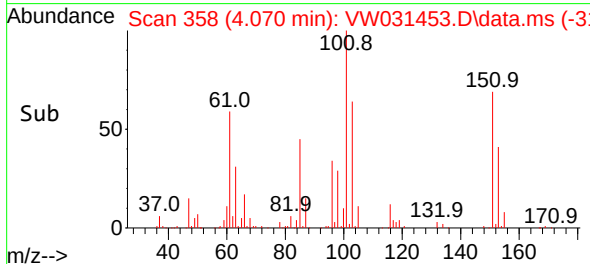
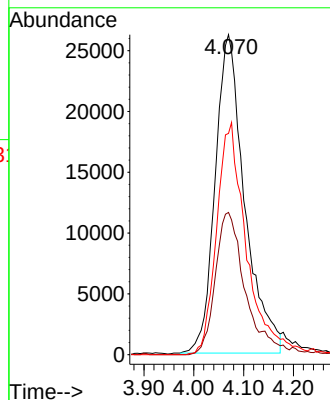
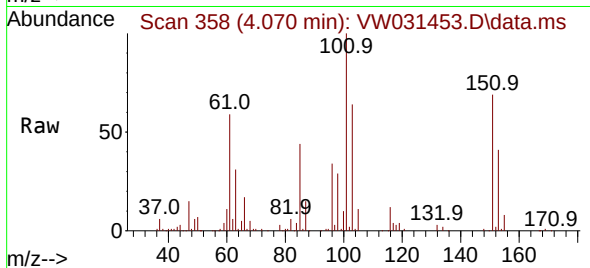




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 11.007 ug/L  
 RT: 4.070 min Scan# 359  
 Delta R.T. -0.006 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

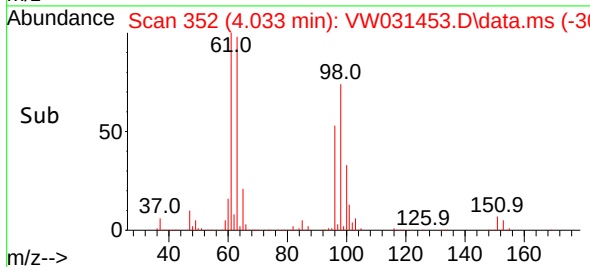
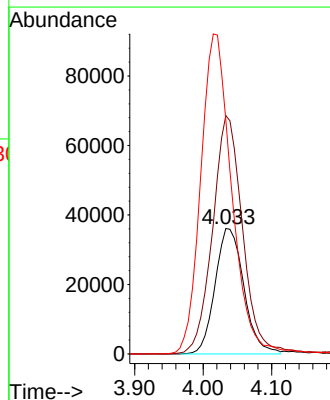
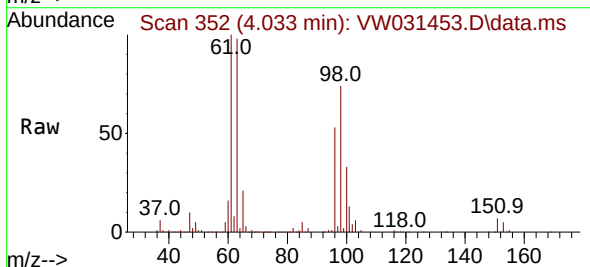
Instrument :  
 MSVOA\_W  
 ClientSampleId :

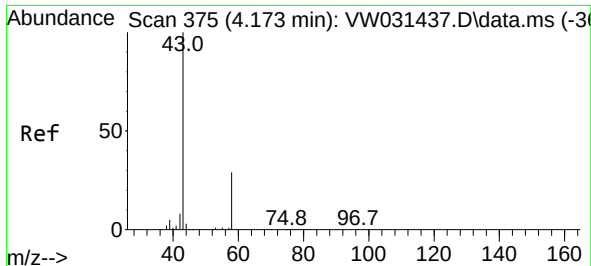
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 Ion Ratio Lower Upper  
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 151 73.7 54.8 82.2



#12  
 1,1-Dichloroethene  
 Concen: 10.642 ug/L  
 RT: 4.033 min Scan# 352  
 Delta R.T. -0.006 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

Tgt Ion: 96 Resp: 105334  
 Ion Ratio Lower Upper  
 96 100  
 61 189.9 125.3 232.7  
 63 186.6 104.6 194.2

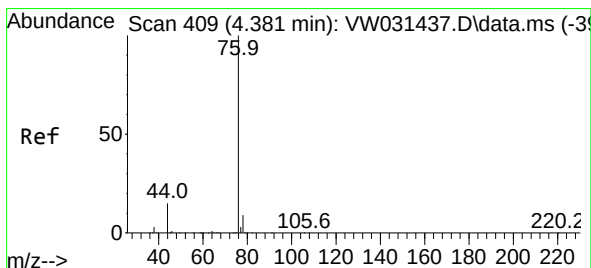
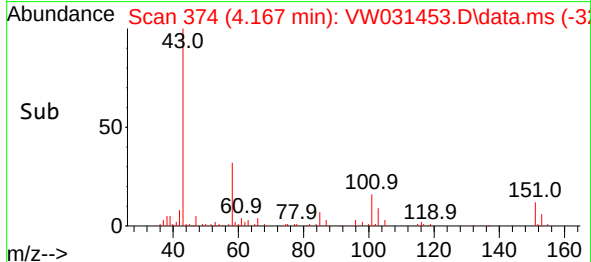
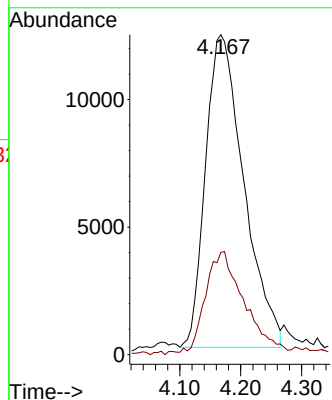
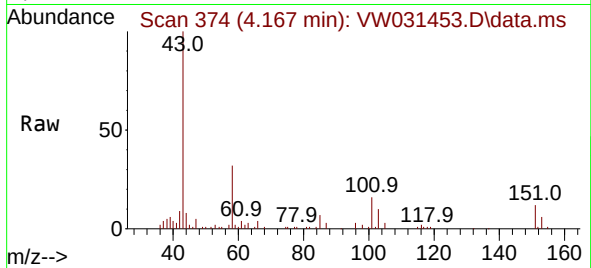




#13  
Acetone  
Concen: 16.817 ug/L  
RT: 4.167 min Scan# 375  
Delta R.T. -0.006 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

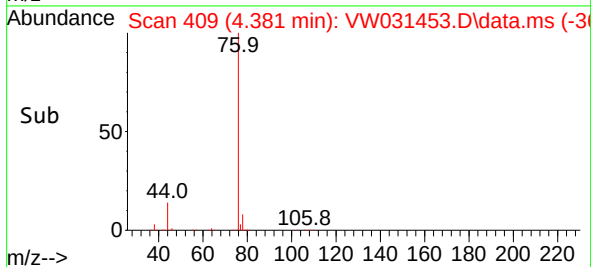
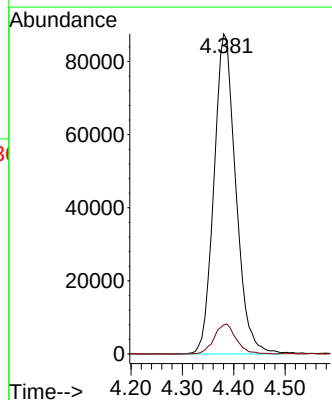
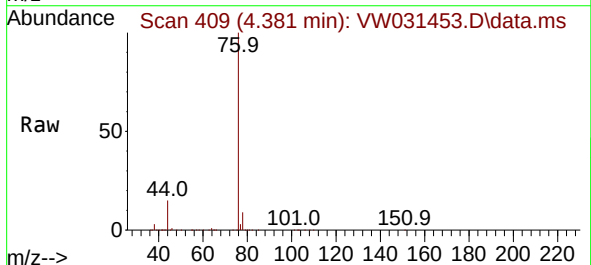
Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion: 43 Resp: 53580  
Ion Ratio Lower Upper  
43 100  
58 32.2 0.0 0.0#

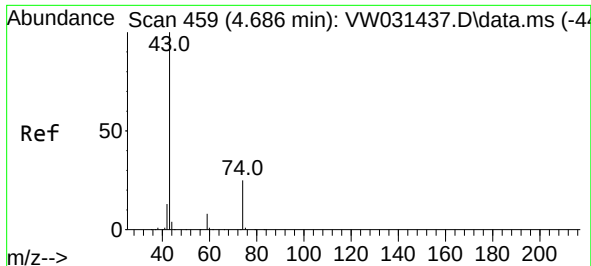


#14  
Carbon disulfide  
Concen: 8.013 ug/L  
RT: 4.381 min Scan# 409  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion: 76 Resp: 258669  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.3 10.9

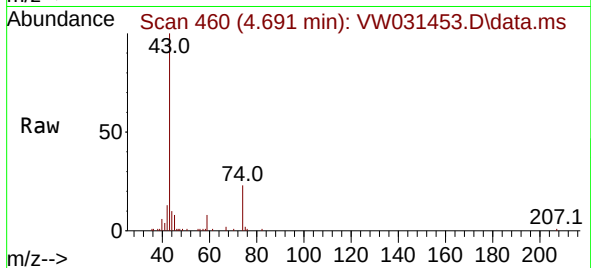




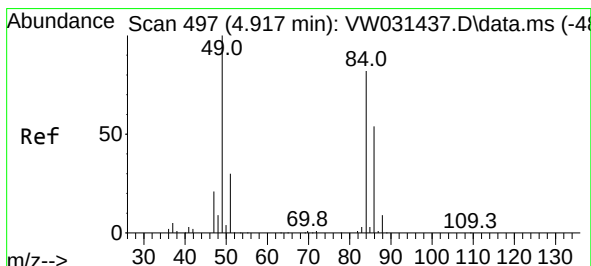
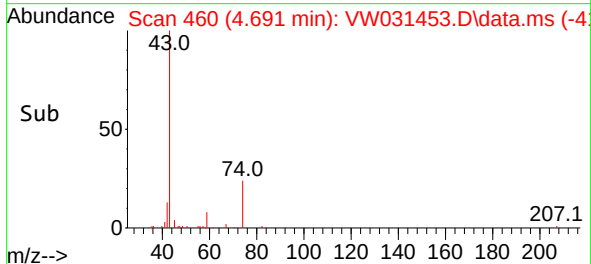
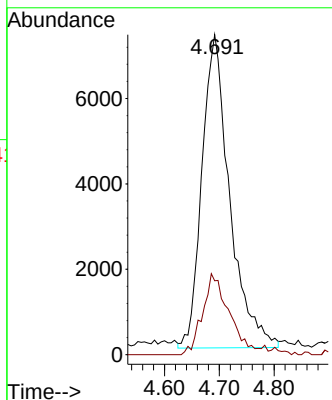


#15  
Methyl Acetate  
Concen: 7.121 ug/L  
RT: 4.691 min Scan# 459  
Delta R.T. 0.006 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Instrument :  
MSVOA\_W  
ClientSampleId :

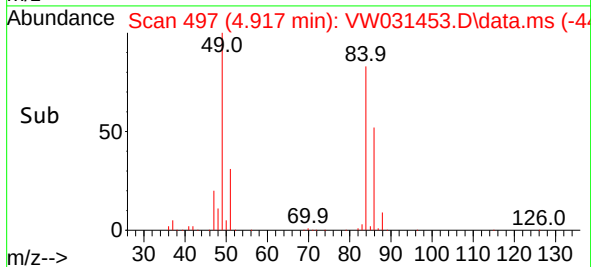
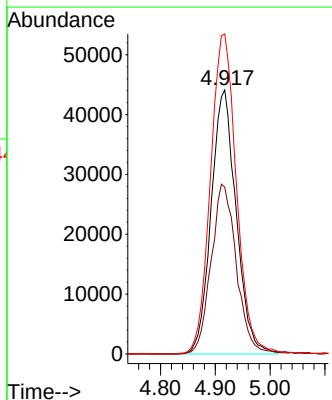
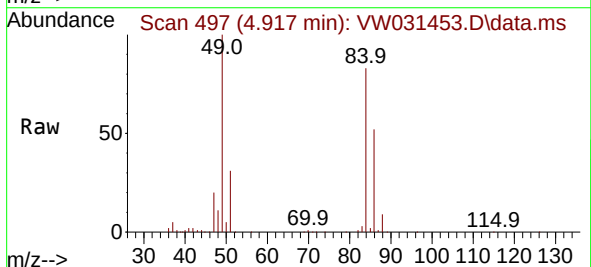


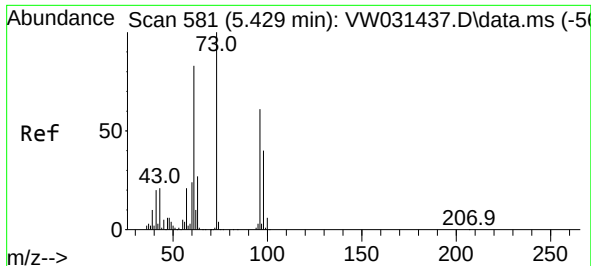
Tgt Ion: 43 Resp: 25770  
Ion Ratio Lower Upper  
43 100  
74 24.4 18.9 28.3



#16  
Methylene chloride  
Concen: 13.809 ug/L  
RT: 4.917 min Scan# 497  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

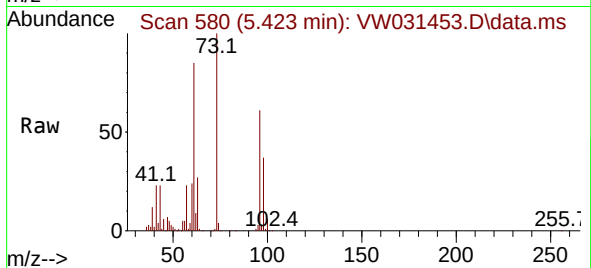
Tgt Ion: 84 Resp: 140275  
Ion Ratio Lower Upper  
84 100  
86 63.1 44.7 82.9  
49 121.2 88.3 164.1



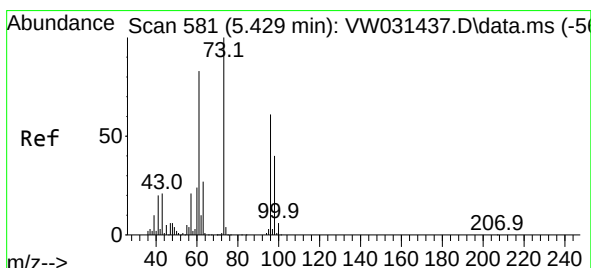
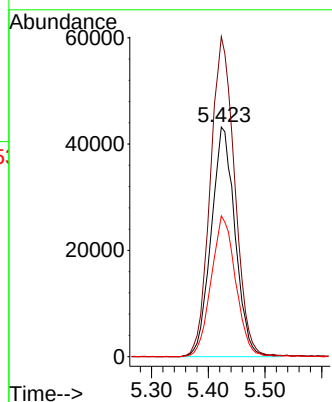
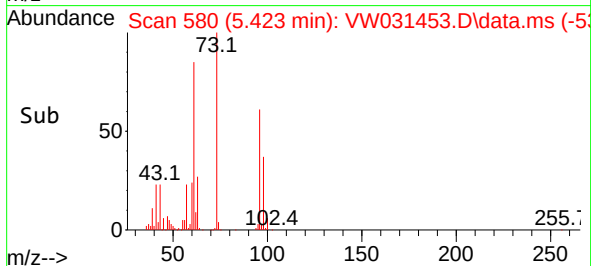


#17  
trans-1,2-Dichloroethene  
Concen: 11.849 ug/L  
RT: 5.423 min Scan# 580  
Delta R.T. -0.006 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Instrument :  
MSVOA\_W  
ClientSampleId :

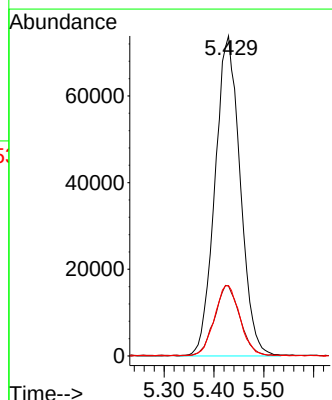
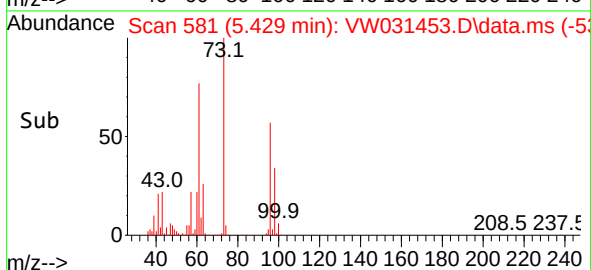
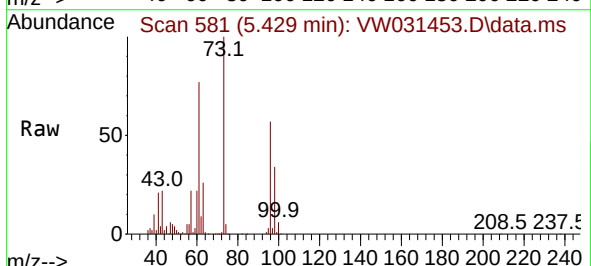


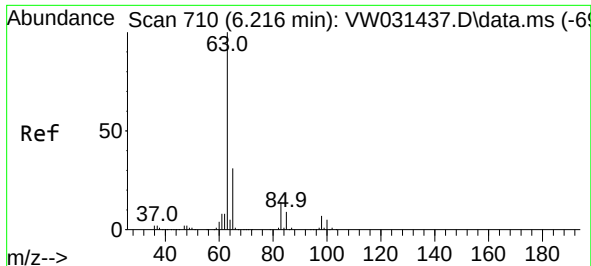
Tgt Ion: 96 Resp: 126413  
Ion Ratio Lower Upper  
96 100  
61 139.4 100.7 187.1  
98 61.4 43.8 81.3



#18  
Methyl tert-butyl Ether  
Concen: 14.539 ug/L  
RT: 5.429 min Scan# 581  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion: 73 Resp: 259314  
Ion Ratio Lower Upper  
73 100  
43 21.9 17.9 26.9  
57 22.3 17.9 26.9





#19

1,1-Dichloroethane

Concen: 13.120 ug/L

RT: 6.216 min Scan# 710

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :

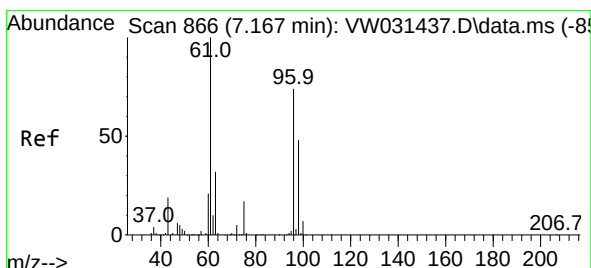
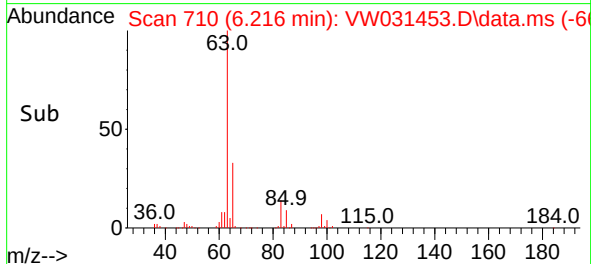
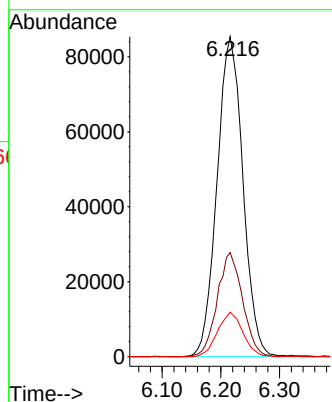
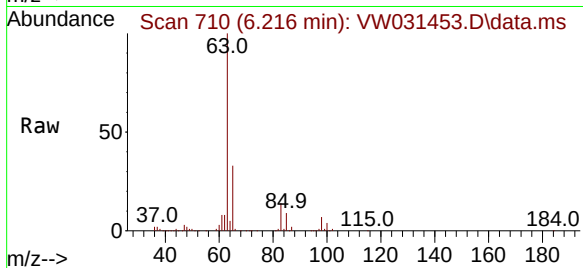
Tgt Ion: 63 Resp: 261563

Ion Ratio Lower Upper

63 100

65 32.5 21.9 40.7

83 13.9 9.3 17.3



#20

cis-1,2-Dichloroethene

Concen: 13.398 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

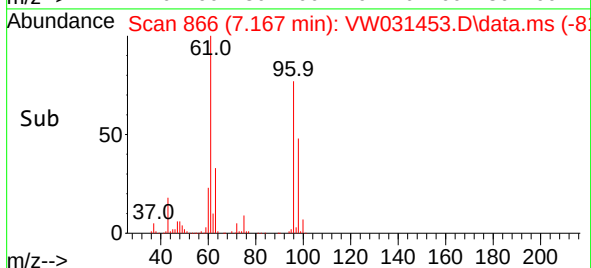
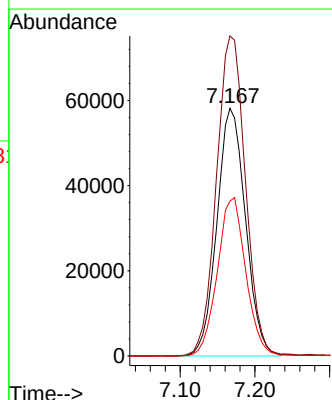
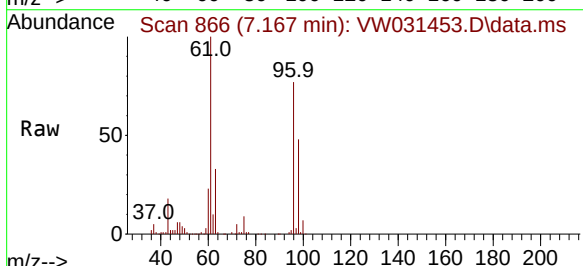
Tgt Ion: 96 Resp: 154660

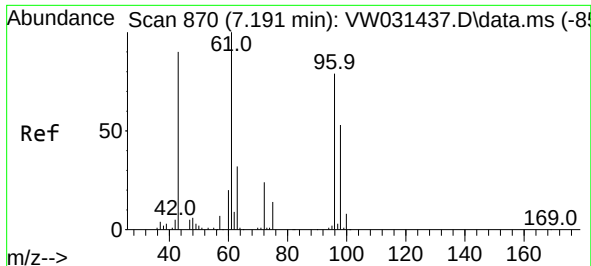
Ion Ratio Lower Upper

96 100

61 129.2 92.2 171.2

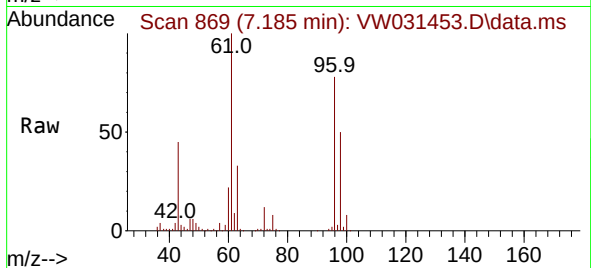
98 62.6 43.7 81.1



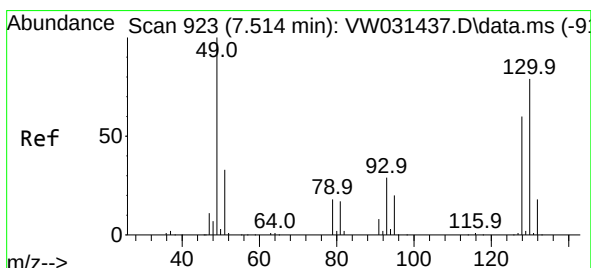
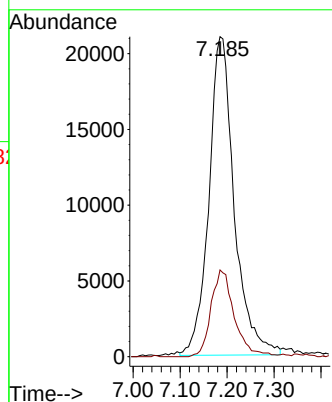
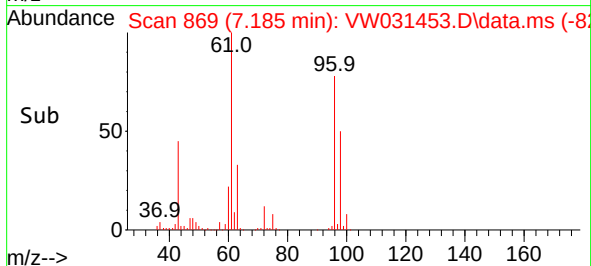


#22  
2-Butanone  
Concen: 20.394 ug/L  
RT: 7.185 min Scan# 870  
Delta R.T. -0.006 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Instrument :  
MSVOA\_W  
ClientSampleId :

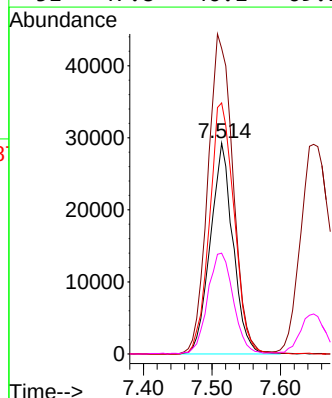
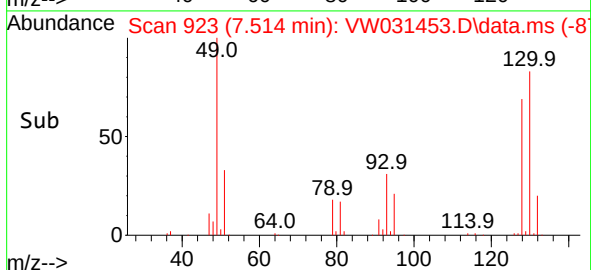
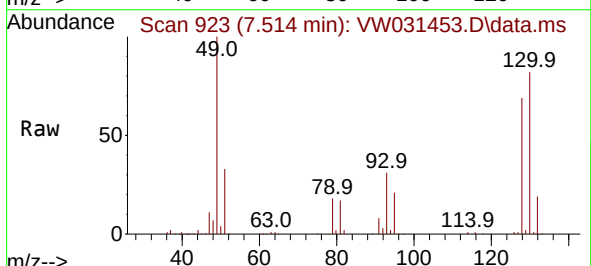


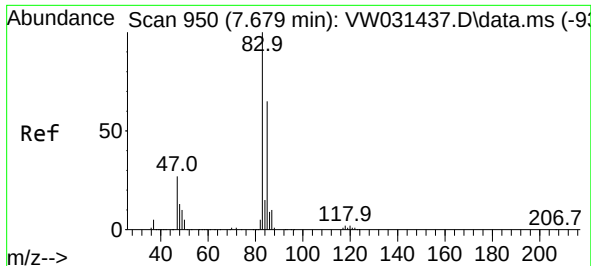
Tgt Ion: 43 Resp: 78729  
Ion Ratio Lower Upper  
43 100  
72 24.2 13.3 39.8



#23  
Bromochloromethane  
Concen: 14.550 ug/L  
RT: 7.514 min Scan# 923  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion: 128 Resp: 66985  
Ion Ratio Lower Upper  
128 100  
49 144.9 123.7 229.7  
130 119.1 90.3 167.7  
51 47.8 46.1 69.1

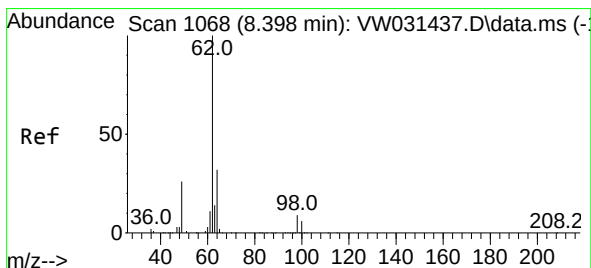
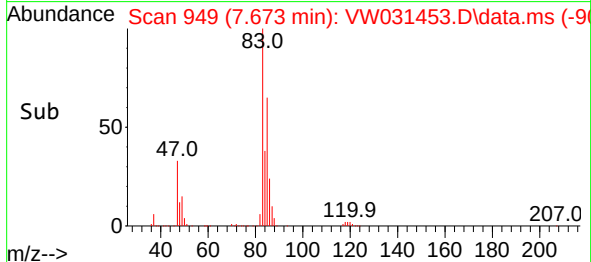
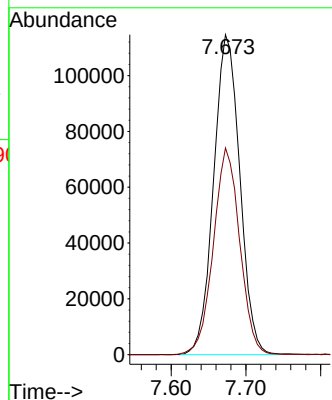
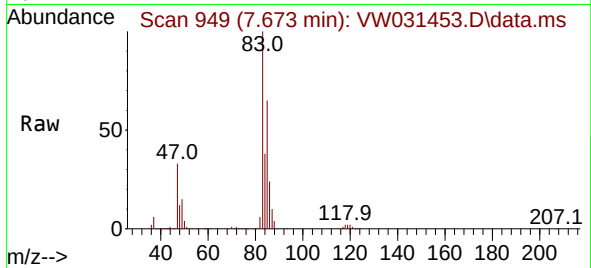




#25  
Chloroform  
Concen: 14.213 ug/L  
RT: 7.673 min Scan# 949  
Delta R.T. -0.006 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

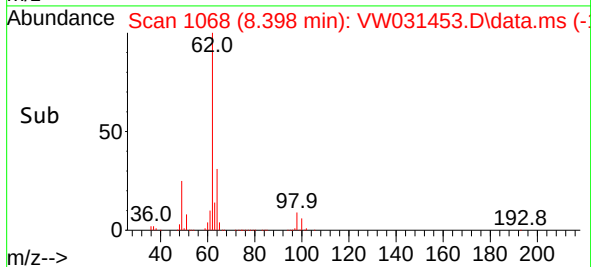
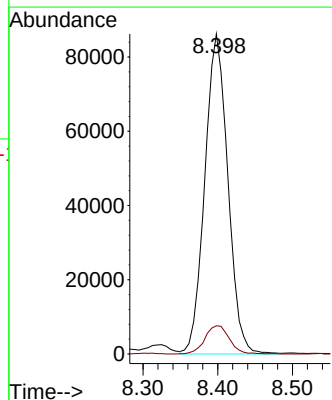
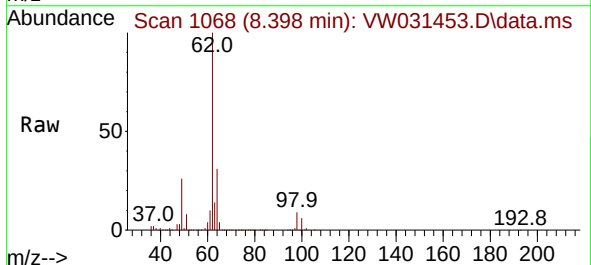
Instrument :  
MSVOA\_W  
ClientSampleId :

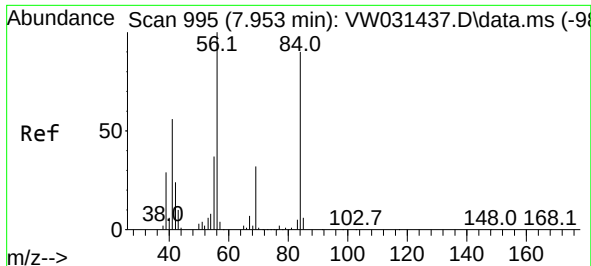
Tgt Ion: 83 Resp: 279661  
Ion Ratio Lower Upper  
83 100  
85 64.6 46.1 85.5



#27  
1,2-Dichloroethane  
Concen: 14.939 ug/L  
RT: 8.398 min Scan# 1068  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

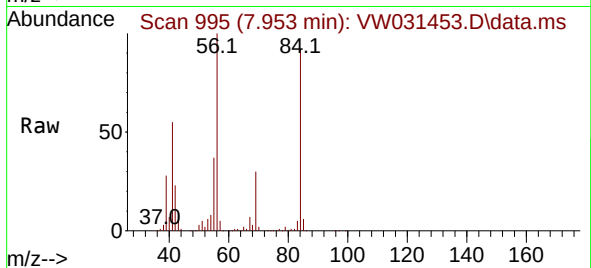
Tgt Ion: 62 Resp: 184802  
Ion Ratio Lower Upper  
62 100  
98 8.8 7.2 10.8



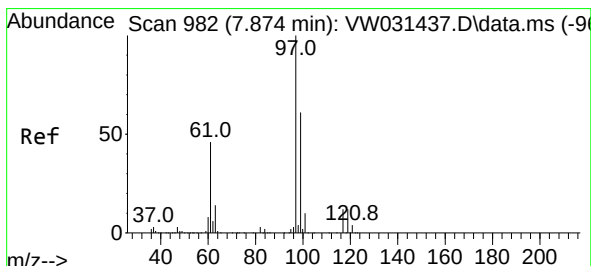
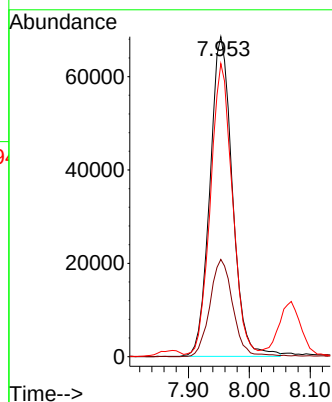
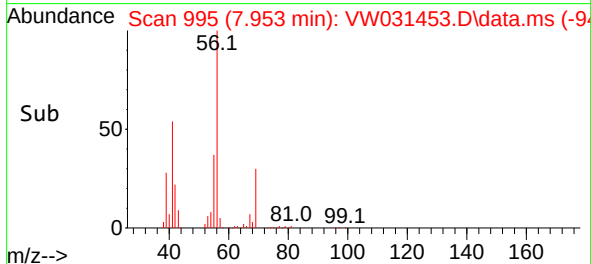


#29  
Cyclohexane  
Concen: 9.063 ug/L  
RT: 7.953 min Scan# 995  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Instrument :  
MSVOA\_W  
ClientSampleId :

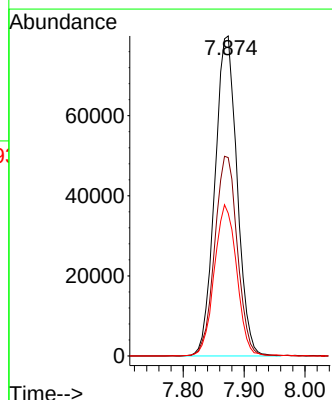
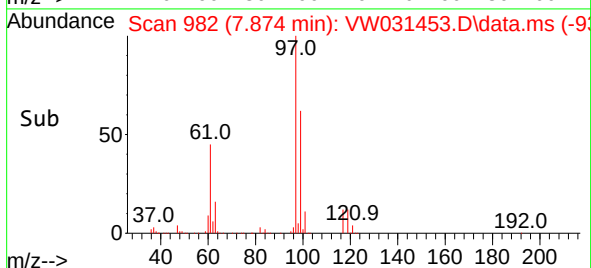
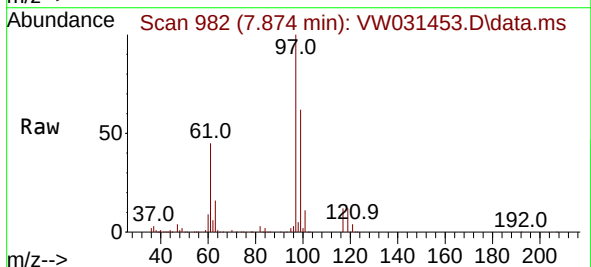


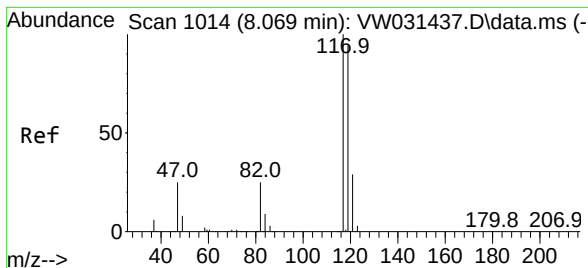
Tgt Ion: 56 Resp: 175631  
Ion Ratio Lower Upper  
56 100  
69 30.7 25.0 37.4  
84 89.7 68.9 103.3



#30  
1,1,1-Trichloroethane  
Concen: 10.970 ug/L  
RT: 7.874 min Scan# 982  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion: 97 Resp: 202611  
Ion Ratio Lower Upper  
97 100  
99 63.6 51.1 76.7  
61 47.6 36.3 54.5

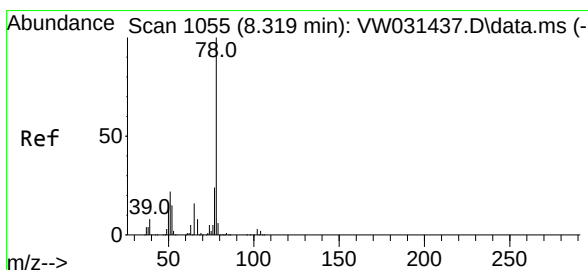
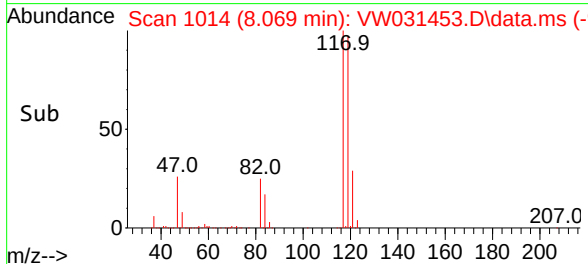
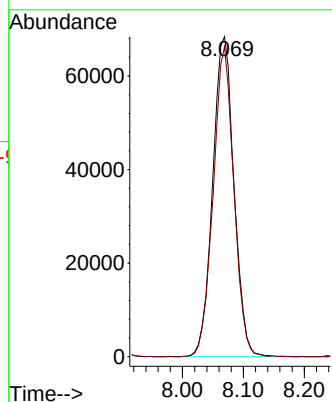
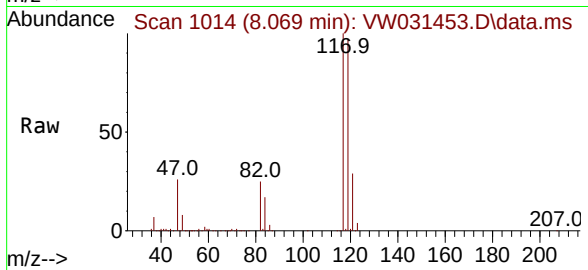




#31  
Carbon tetrachloride  
Concen: 10.075 ug/L  
RT: 8.069 min Scan# 1014  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

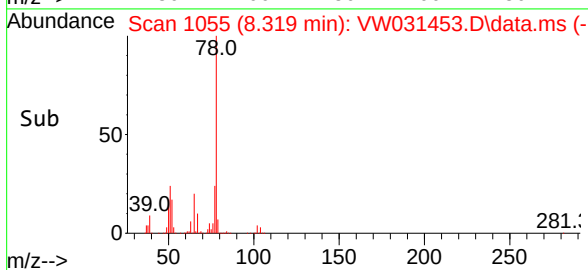
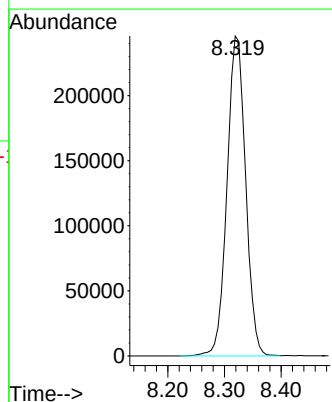
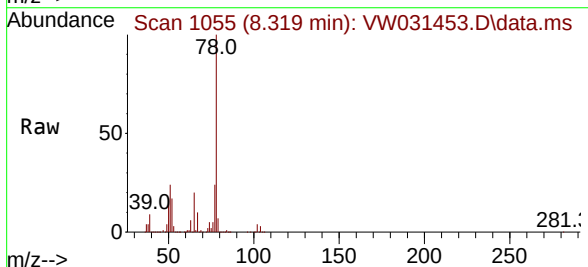
Instrument :  
MSVOA\_W  
ClientSampleId :

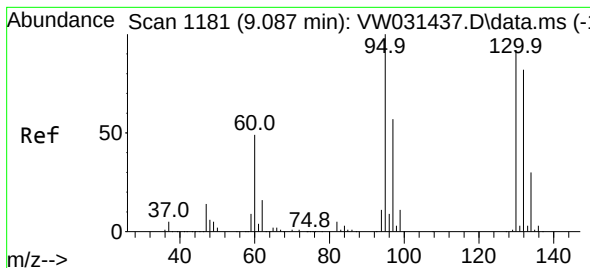
Tgt Ion:117 Resp: 165781  
Ion Ratio Lower Upper  
117 100  
119 93.8 76.0 114.0



#33  
Benzene  
Concen: 12.678 ug/L  
RT: 8.319 min Scan# 1055  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion: 78 Resp: 559816





#34

Trichloroethene

Concen: 11.680 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.000 min

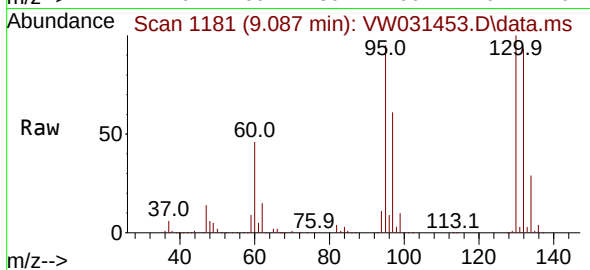
Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :



Tgt Ion: 95 Resp: 145605

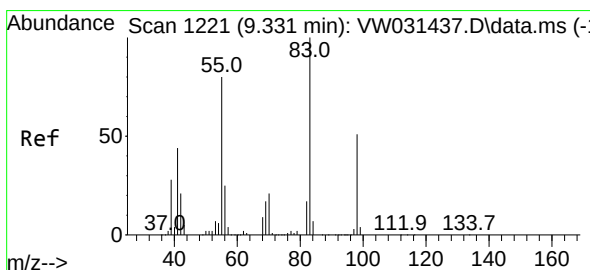
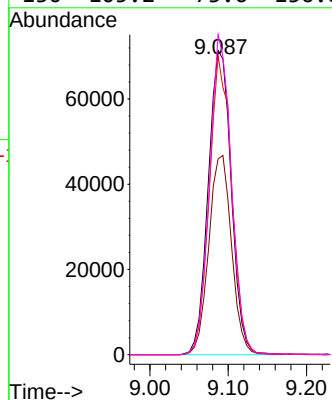
Ion Ratio Lower Upper

95 100

97 64.4 46.5 86.3

132 98.2 70.3 130.5

130 105.2 73.6 136.8



#35

Methylcyclohexane

Concen: 8.705 ug/L

RT: 9.331 min Scan# 1221

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

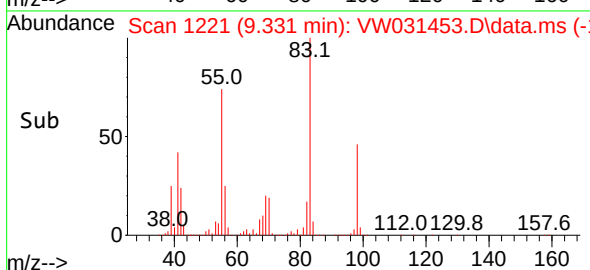
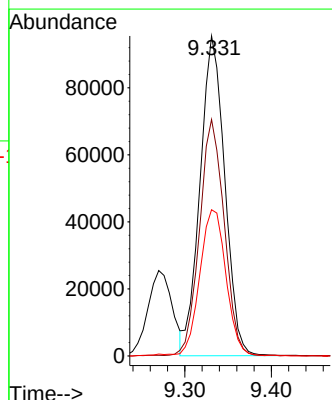
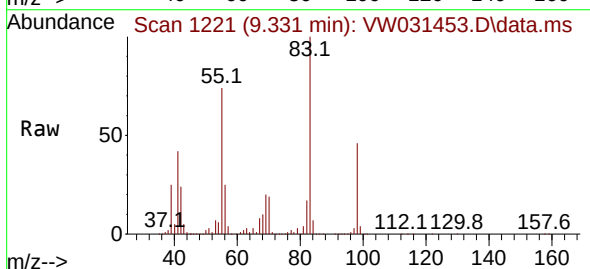
Tgt Ion: 83 Resp: 188999

Ion Ratio Lower Upper

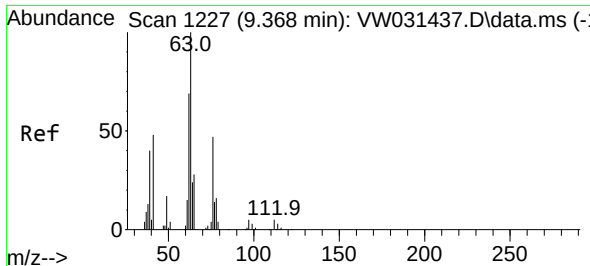
83 100

55 73.3 62.6 93.8

98 48.5 39.8 59.6







#37

1,2-Dichloropropane

Concen: 13.806 ug/L

RT: 9.367 min Scan# 1227

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

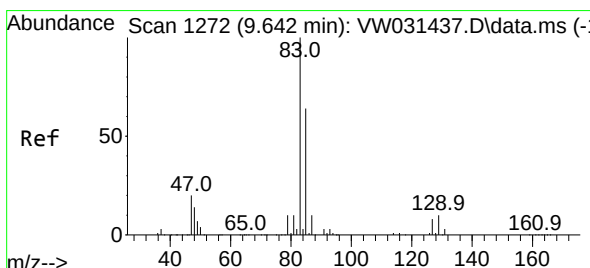
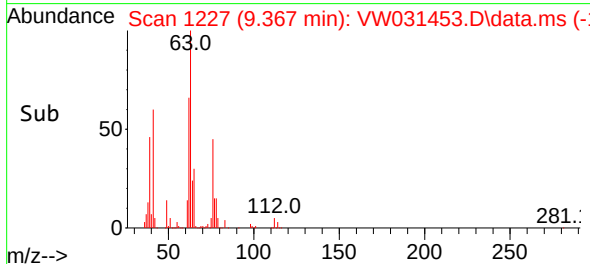
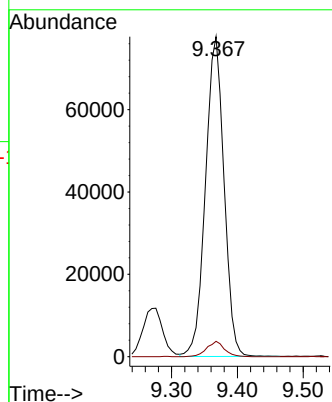
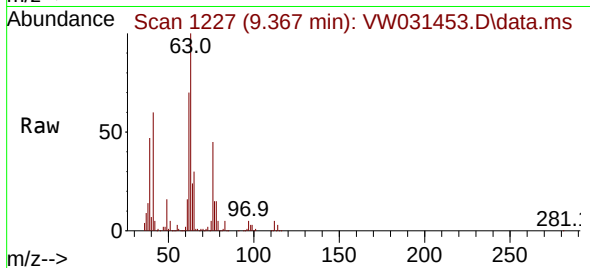
ClientSampleId :

Tgt Ion: 63 Resp: 152085

Ion Ratio Lower Upper

63 100

112 4.6 3.8 5.8



#38

Bromodichloromethane

Concen: 13.307 ug/L

RT: 9.642 min Scan# 1272

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

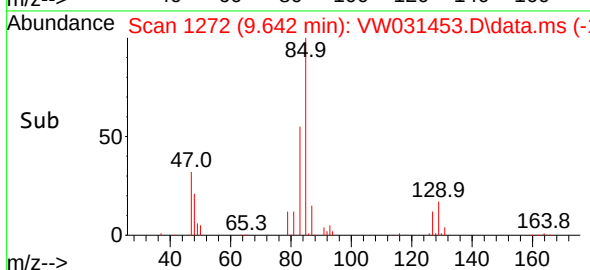
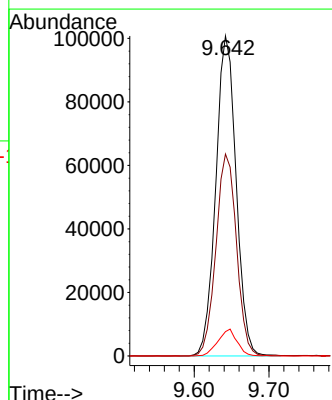
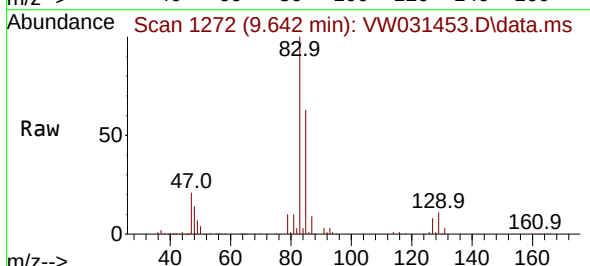
Tgt Ion: 83 Resp: 190561

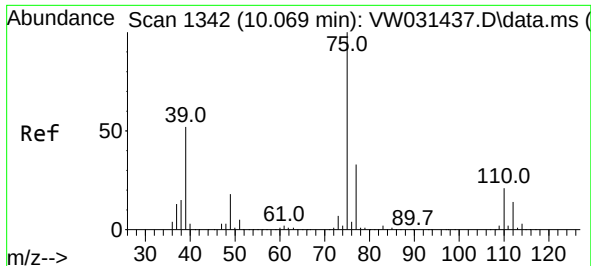
Ion Ratio Lower Upper

83 100

85 63.1 46.5 86.5

127 7.6 6.2 9.4





#39

cis-1,3-Dichloropropene

Concen: 10.229 ug/L

RT: 10.069 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

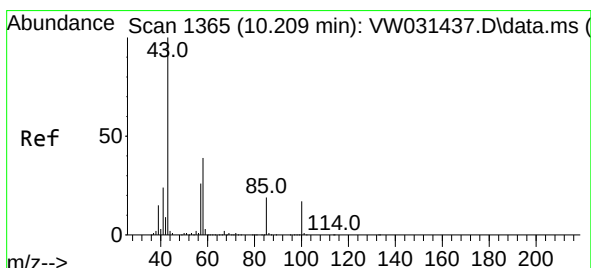
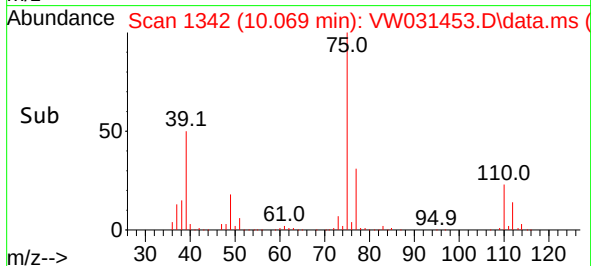
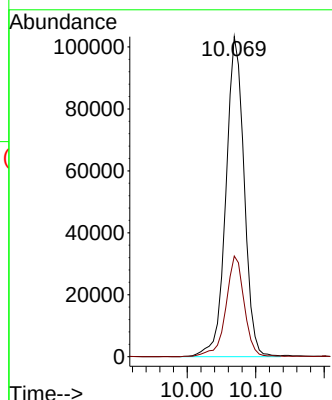
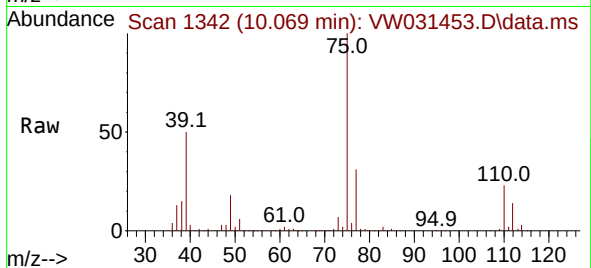
ClientSampleId :

Tgt Ion: 75 Resp: 190400

Ion Ratio Lower Upper

75 100

77 31.5 21.8 40.4



#40

4-Methyl-2-pentanone

Concen: 24.412 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

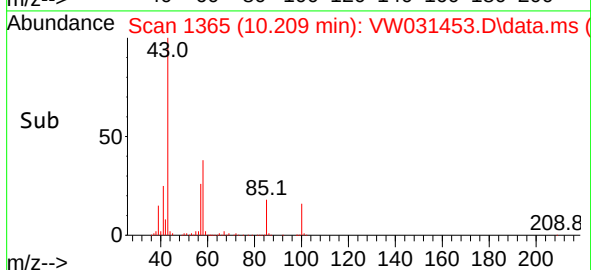
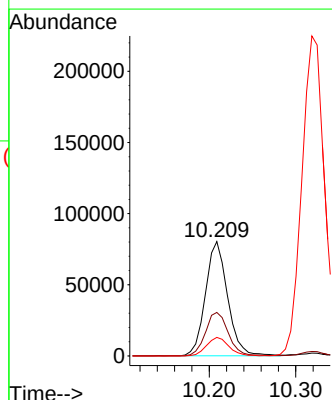
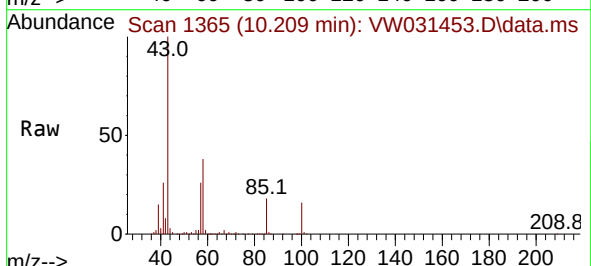
Tgt Ion: 43 Resp: 142669

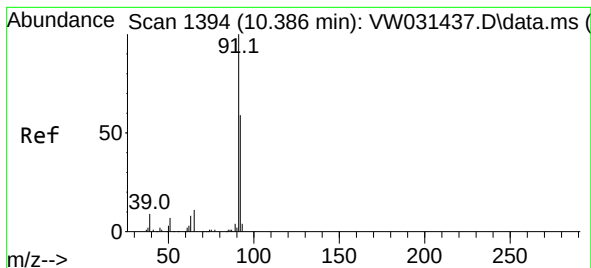
Ion Ratio Lower Upper

43 100

58 39.3 31.1 46.7

100 16.5 13.0 19.6





#42

Toluene

Concen: 12.334 ug/L

RT: 10.386 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

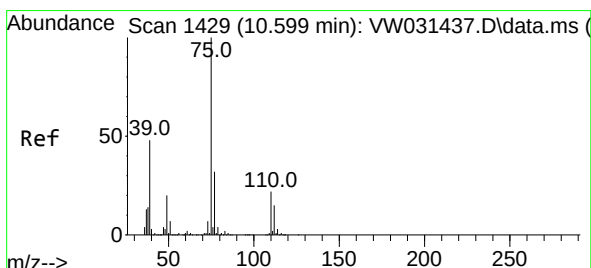
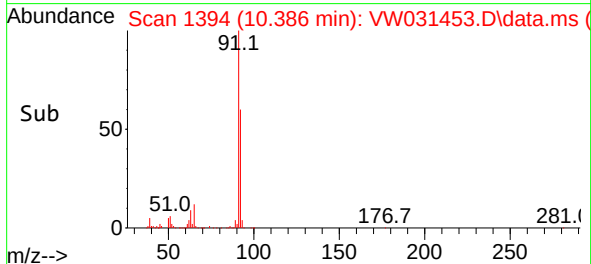
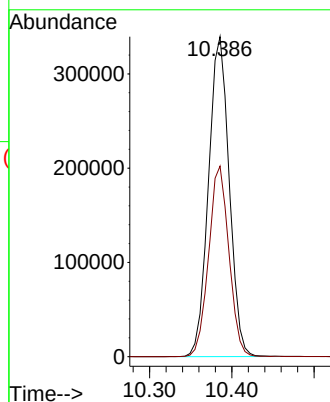
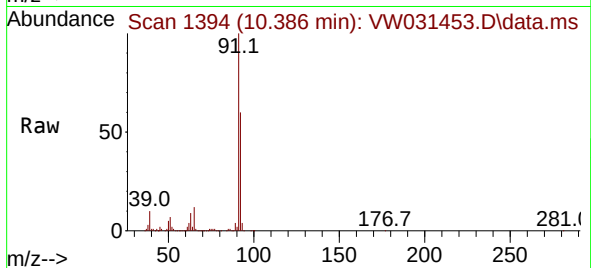
ClientSampleId :

Tgt Ion: 91 Resp: 592980

Ion Ratio Lower Upper

91 100

92 59.6 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 10.684 ug/L

RT: 10.605 min Scan# 1430

Delta R.T. 0.006 min

Lab File: VW031453.D

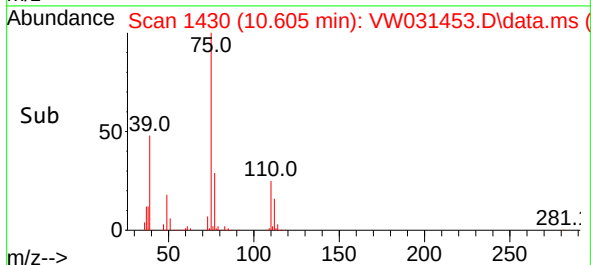
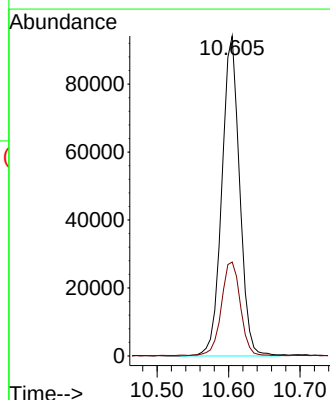
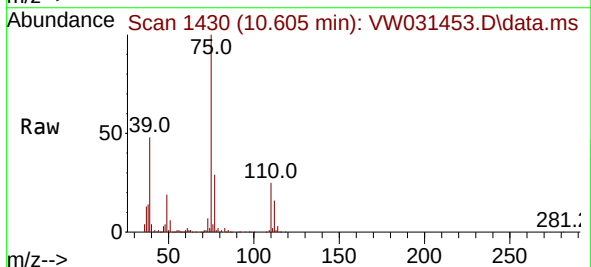
Acq: 21 Dec 2024 02:15

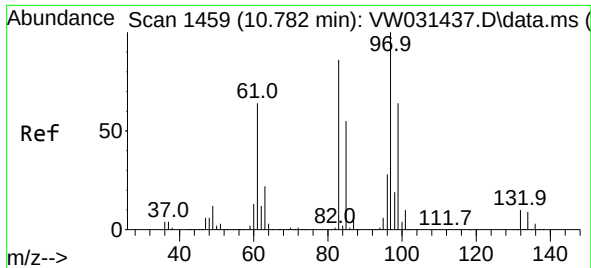
Tgt Ion: 75 Resp: 162396

Ion Ratio Lower Upper

75 100

77 29.4 21.2 39.4





#45

1,1,2-Trichloroethane

Concen: 14.869 ug/L

RT: 10.788 min Scan# 1459

Delta R.T. 0.006 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :

Tgt Ion: 97 Resp: 108946

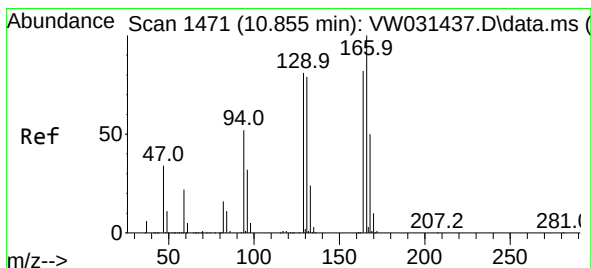
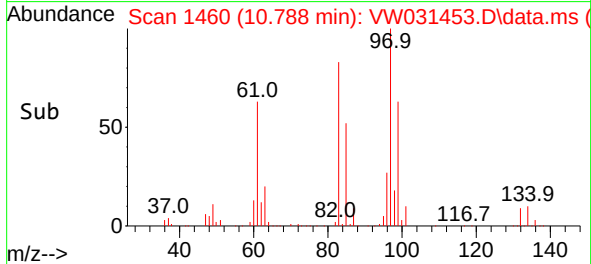
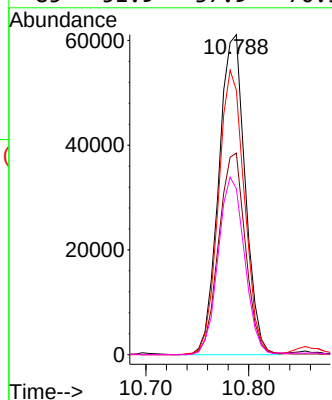
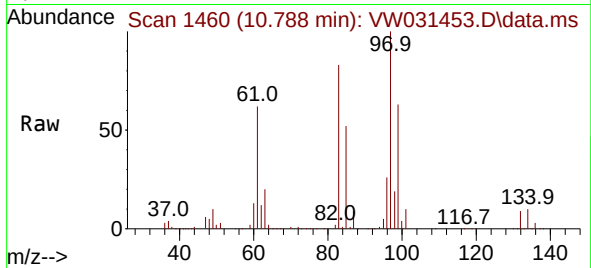
Ion Ratio Lower Upper

97 100

99 63.0 43.0 80.0

83 82.7 56.4 104.7

85 51.9 37.9 70.3



#46

Tetrachloroethene

Concen: 10.619 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. 0.006 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Tgt Ion:164 Resp: 96968

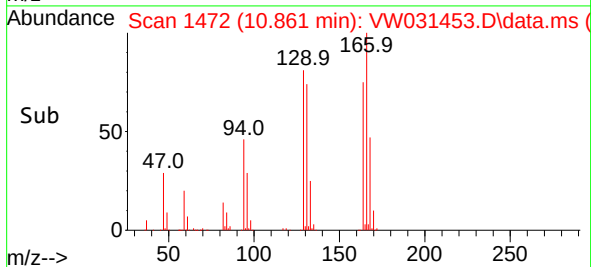
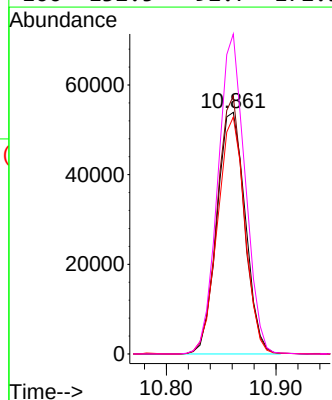
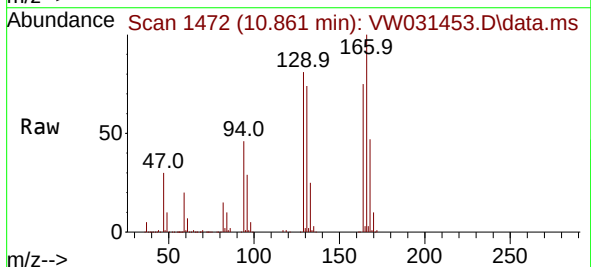
Ion Ratio Lower Upper

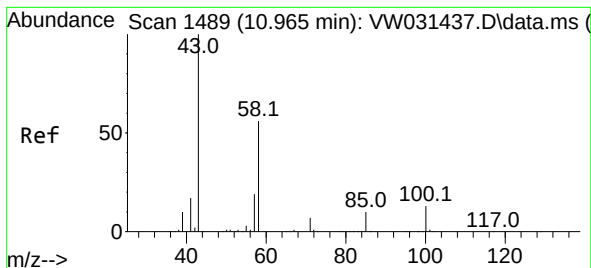
164 100

129 106.8 73.5 136.5

131 98.1 66.6 123.8

166 132.5 92.7 172.3





#48

2-Hexanone

Concen: 19.877 ug/L

RT: 10.965 min Scan# 1489

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :

Tgt Ion: 43 Resp: 98800

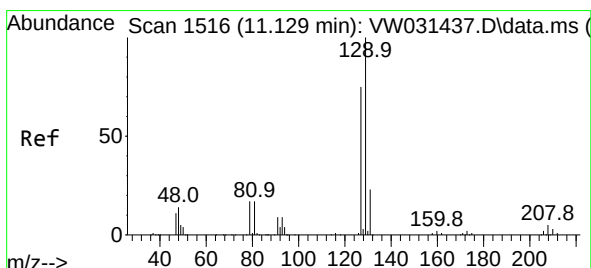
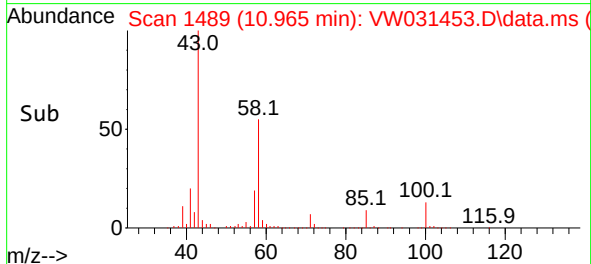
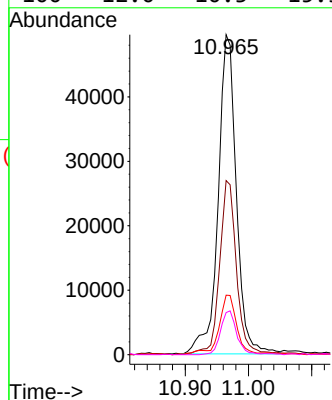
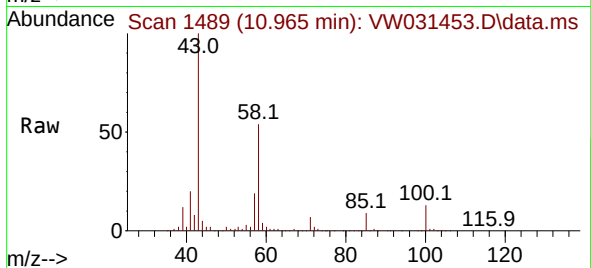
Ion Ratio Lower Upper

43 100

58 50.2 43.0 64.6

57 15.9 15.7 23.5

100 12.0 10.3 15.5



#49

Dibromochloromethane

Concen: 12.870 ug/L

RT: 11.123 min Scan# 1515

Delta R.T. -0.006 min

Lab File: VW031453.D

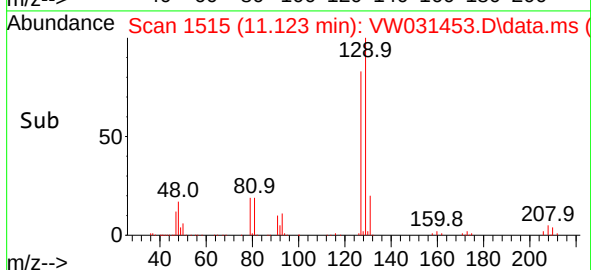
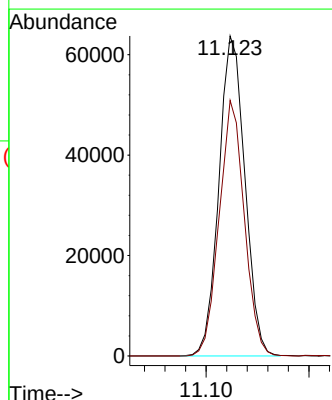
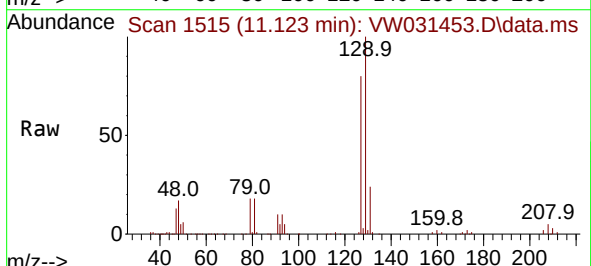
Acq: 21 Dec 2024 02:15

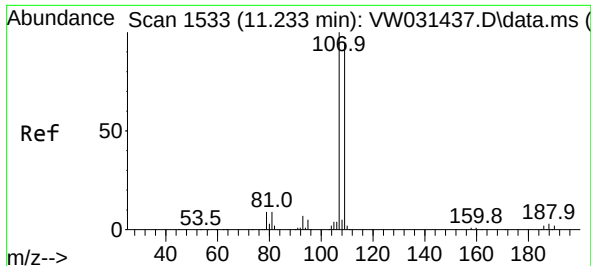
Tgt Ion:129 Resp: 111778

Ion Ratio Lower Upper

129 100

127 79.8 57.6 107.0





#50

1,2-Dibromoethane

Concen: 14.046 ug/L

RT: 11.233 min Scan# 1

Delta R.T. -0.000 min

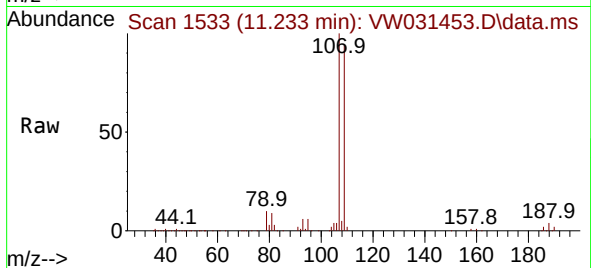
Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :



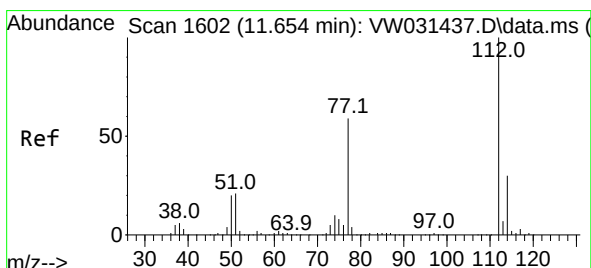
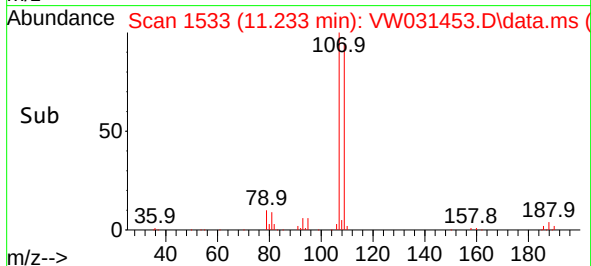
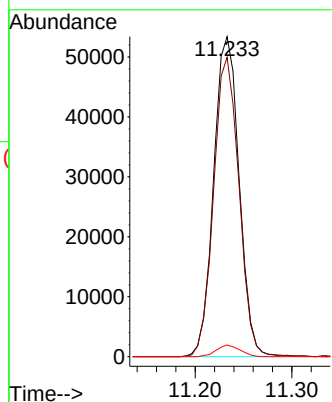
Tgt Ion:107 Resp: 97495

Ion Ratio Lower Upper

107 100

109 93.6 63.2 117.4

188 3.7 2.6 4.0



#51

Chlorobenzene

Concen: 12.810 ug/L

RT: 11.654 min Scan# 1602

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

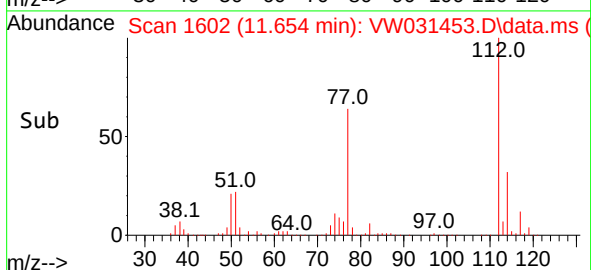
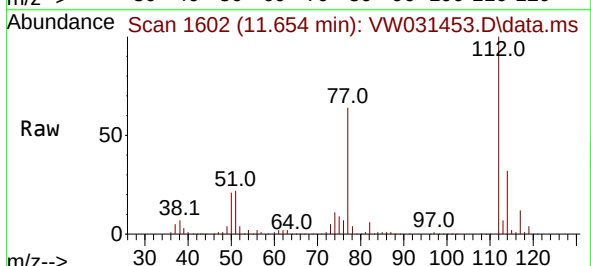
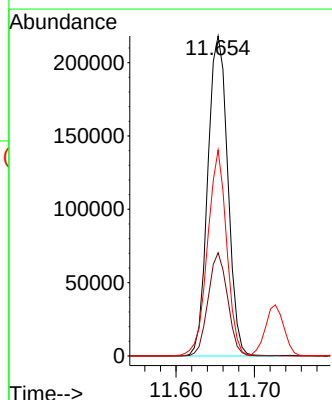
Tgt Ion:112 Resp: 386127

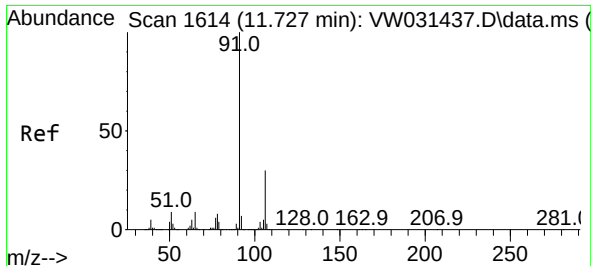
Ion Ratio Lower Upper

112 100

114 32.3 22.7 42.3

77 64.3 50.2 75.4

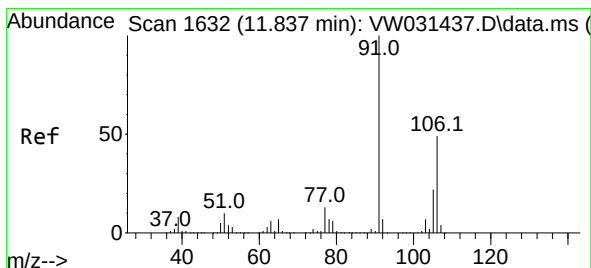
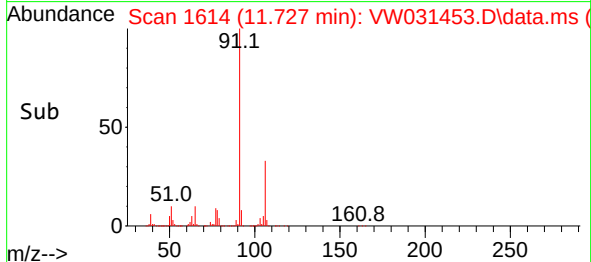
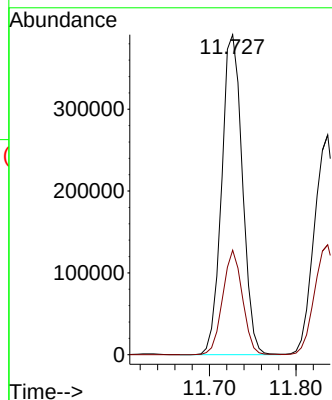
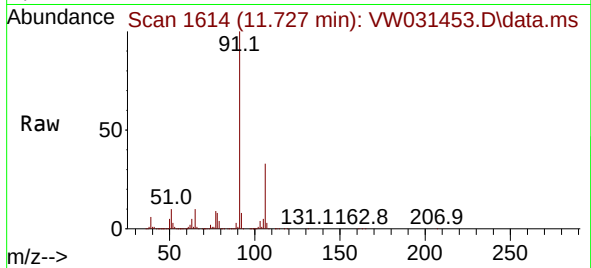




#52  
Ethylbenzene  
Concen: 11.627 ug/L  
RT: 11.727 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

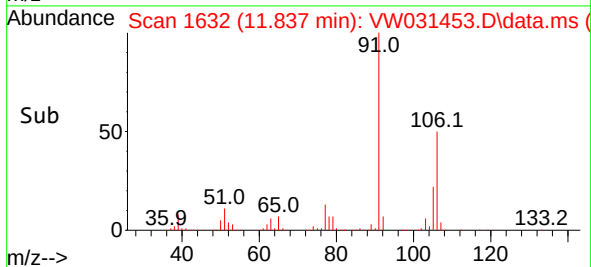
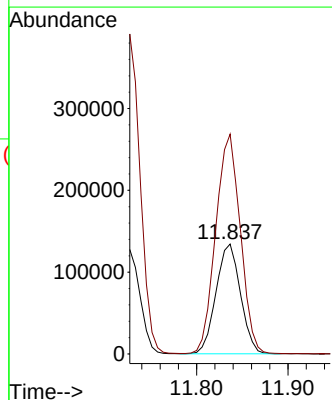
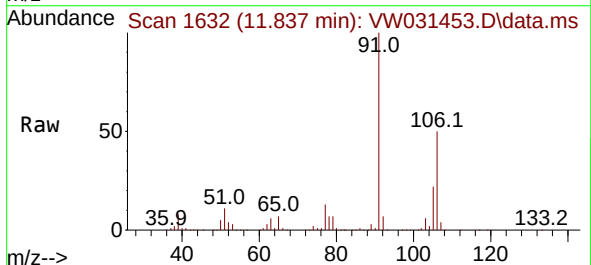
Instrument :  
MSVOA\_W  
ClientSampleId :

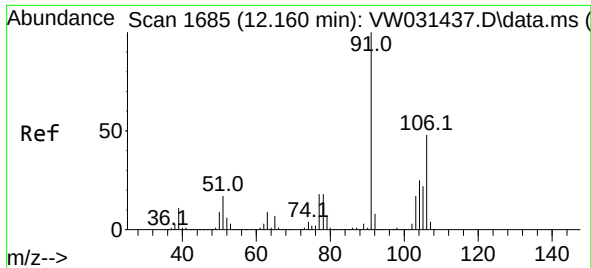
Tgt Ion: 91 Resp: 647857  
Ion Ratio Lower Upper  
91 100  
106 32.6 20.7 38.5



#53  
m,p-Xylene  
Concen: 11.752 ug/L  
RT: 11.837 min Scan# 1632  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion: 106 Resp: 249267  
Ion Ratio Lower Upper  
106 100  
91 200.1 139.9 259.7

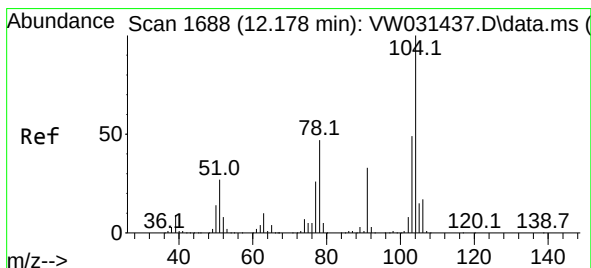
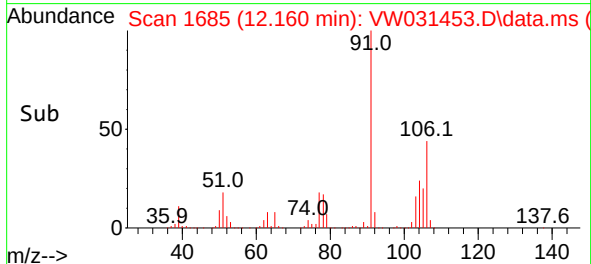
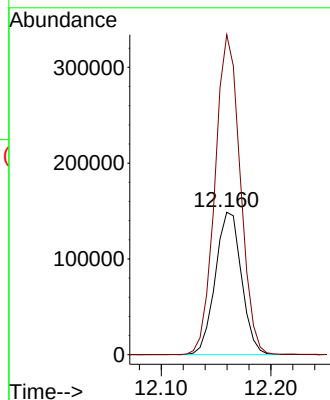
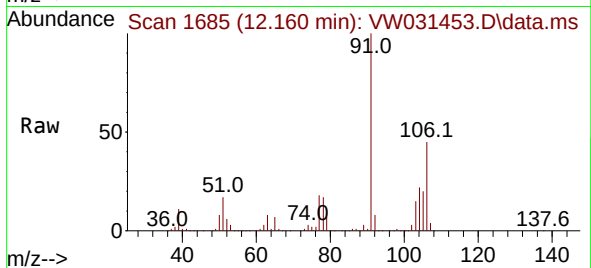




#54  
o-Xylene  
Concen: 12.365 ug/L  
RT: 12.160 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

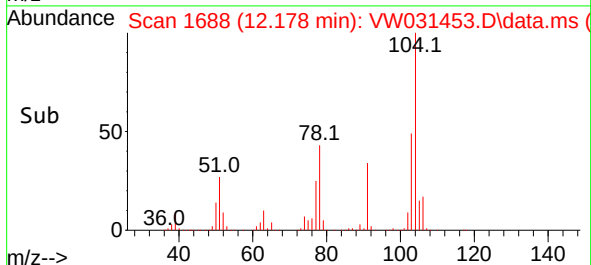
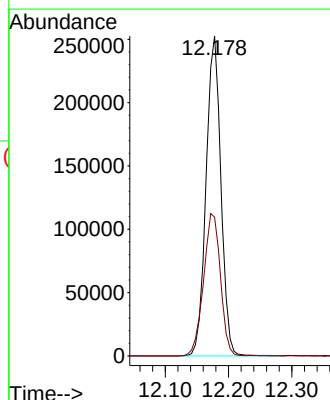
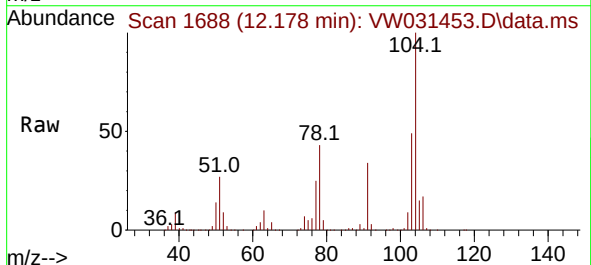
Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion:106 Resp: 247188  
Ion Ratio Lower Upper  
106 100  
91 224.7 153.1 284.3

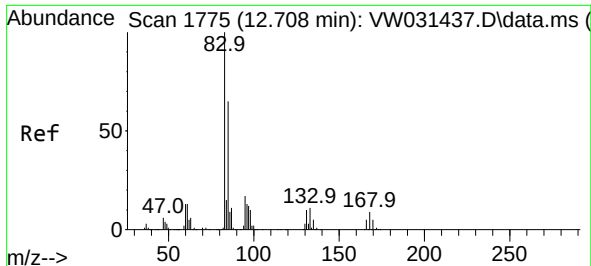


#55  
Styrene  
Concen: 12.401 ug/L  
RT: 12.178 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion:104 Resp: 412362  
Ion Ratio Lower Upper  
104 100  
78 43.4 31.4 58.4







#57

1,1,2,2-Tetrachloroethane

Concen: 15.302 ug/L

RT: 12.708 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :

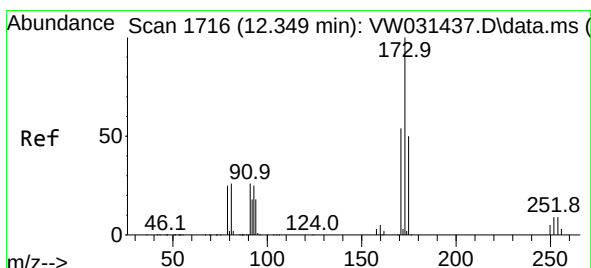
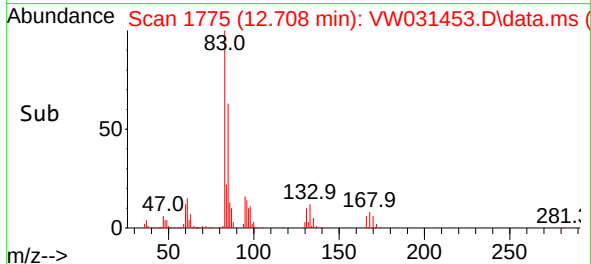
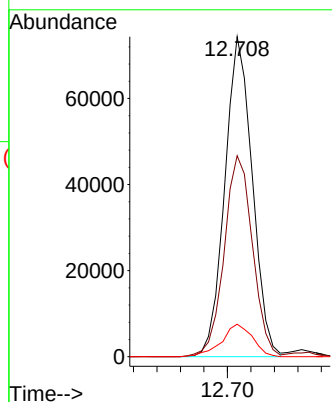
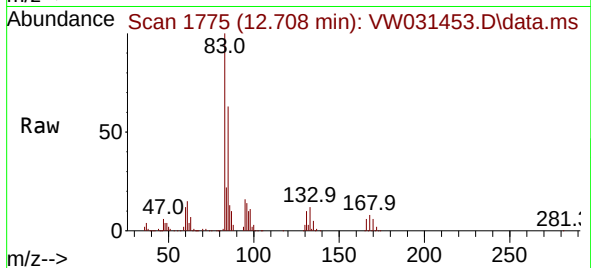
Tgt Ion: 83 Resp: 120861

Ion Ratio Lower Upper

83 100

85 62.8 44.1 81.9

131 10.1 7.9 11.9



#59

Bromoform

Concen: 12.244 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

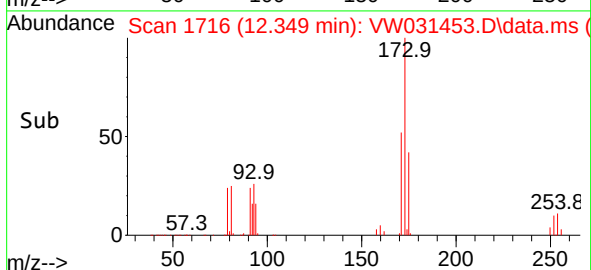
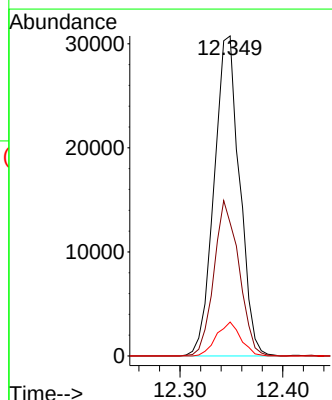
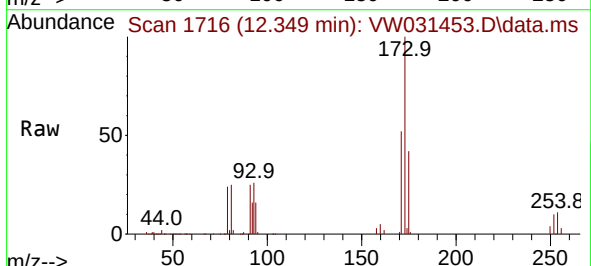
Tgt Ion:173 Resp: 52859

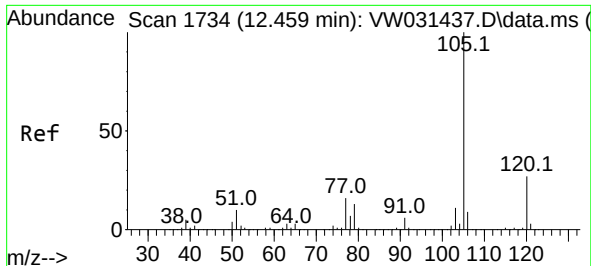
Ion Ratio Lower Upper

173 100

175 47.6 38.6 57.8

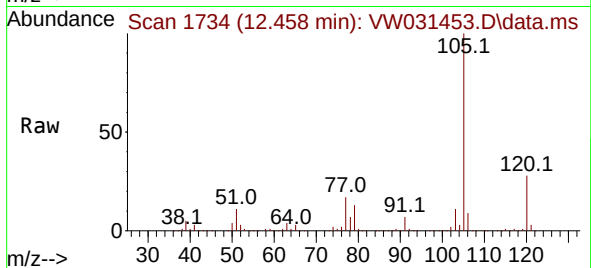
254 10.1 7.6 11.4



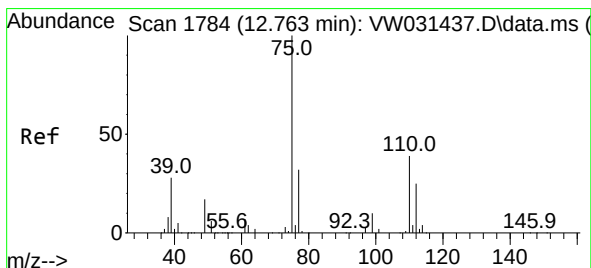
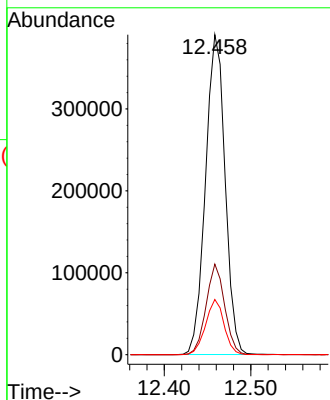
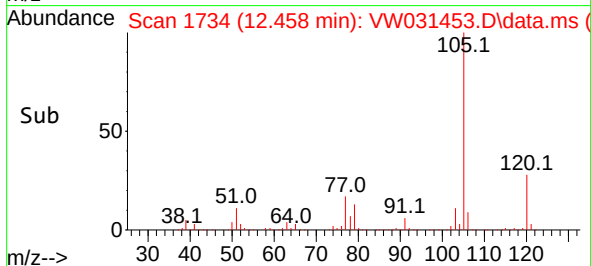


#60  
Isopropylbenzene  
Concen: 12.203 ug/L  
RT: 12.458 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

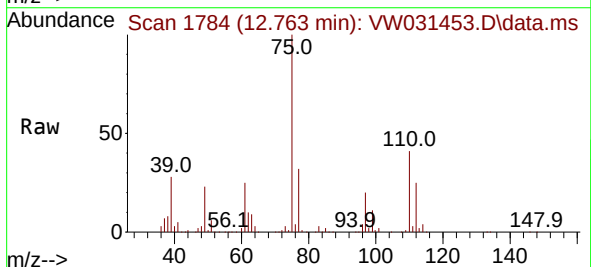
Instrument :  
MSVOA\_W  
ClientSampleId :



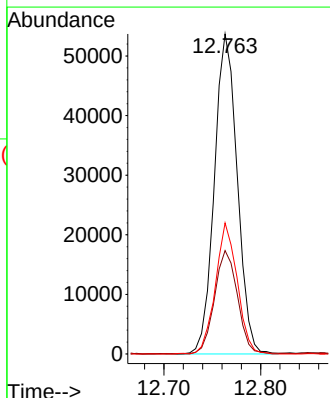
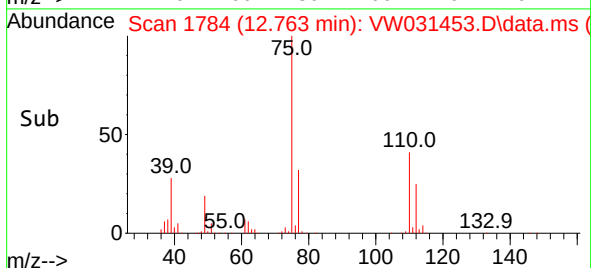
Tgt Ion:105 Resp: 613685  
Ion Ratio Lower Upper  
105 100  
120 26.9 20.6 31.0  
77 16.4 12.8 19.2

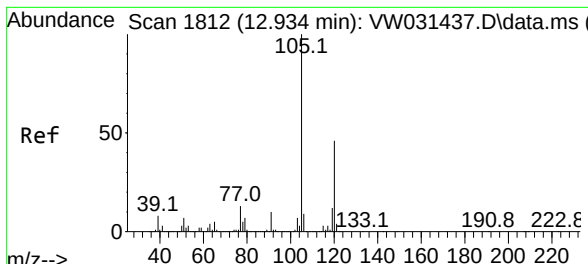


#61  
1,2,3-Trichloropropane  
Concen: 16.754 ug/L  
RT: 12.763 min Scan# 1784  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15



Tgt Ion: 75 Resp: 88101  
Ion Ratio Lower Upper  
75 100  
77 32.4 25.3 37.9  
110 38.9 31.2 46.8



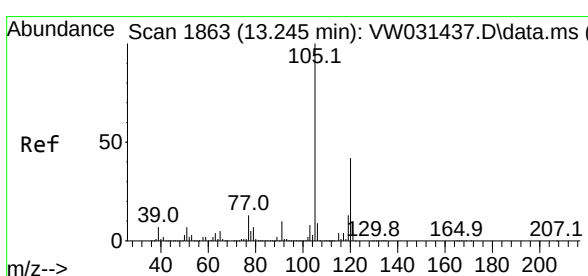
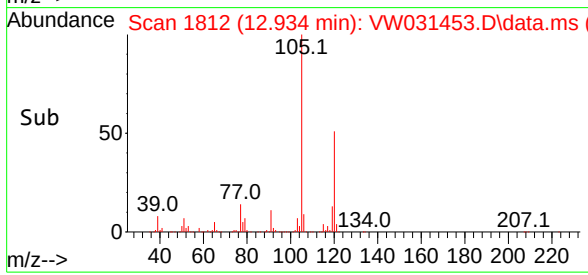
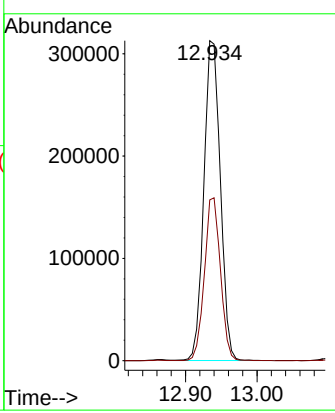
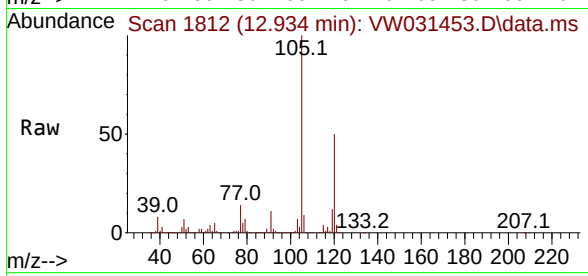


#62  
 1,3,5-Trimethylbenzene  
 Concen: 11.729 ug/L  
 RT: 12.934 min Scan# 1812  
 Delta R.T. -0.000 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tgt Ion:105 Resp: 500100

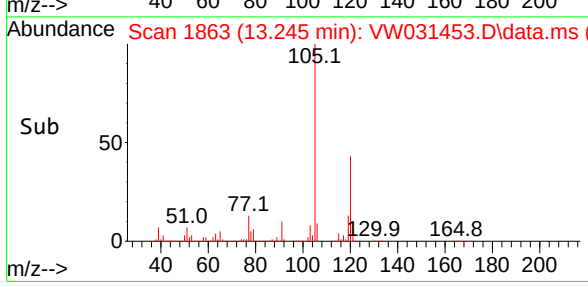
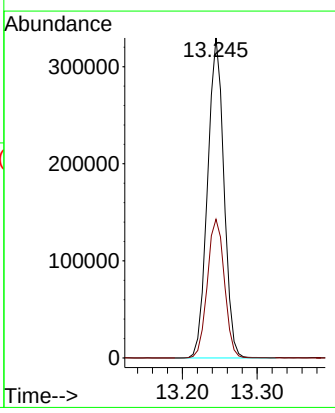
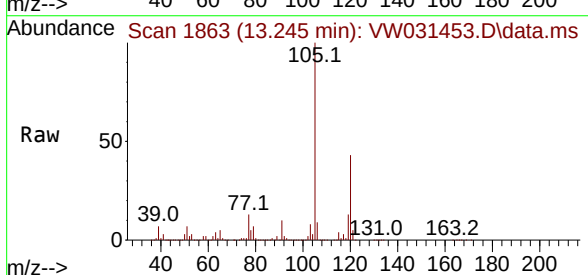
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 49.7  | 37.3  | 55.9  |

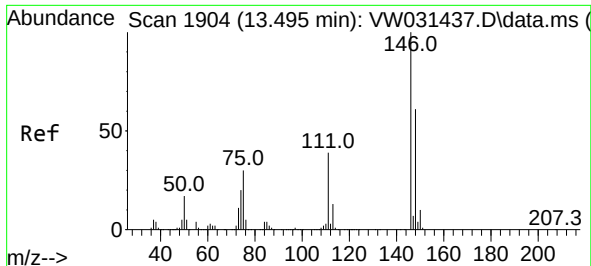


#63  
 1,2,4-Trimethylbenzene  
 Concen: 12.161 ug/L  
 RT: 13.245 min Scan# 1863  
 Delta R.T. -0.000 min  
 Lab File: VW031453.D  
 Acq: 21 Dec 2024 02:15

Tgt Ion:105 Resp: 501138

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 45.0  | 35.0  | 52.4  |

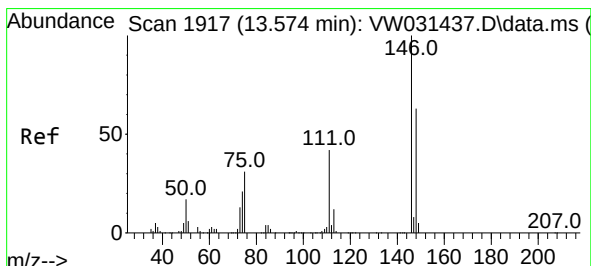
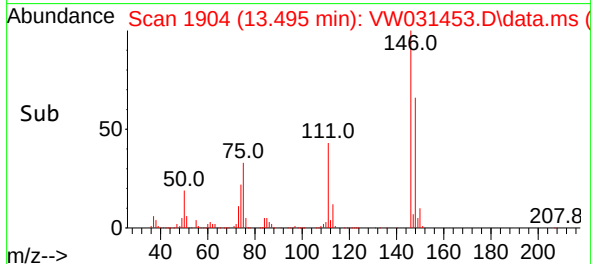
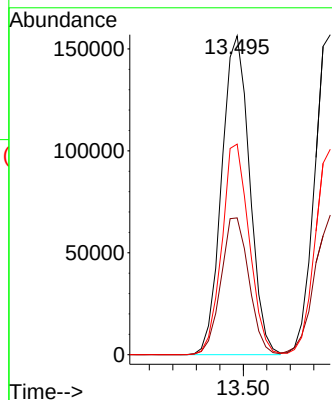
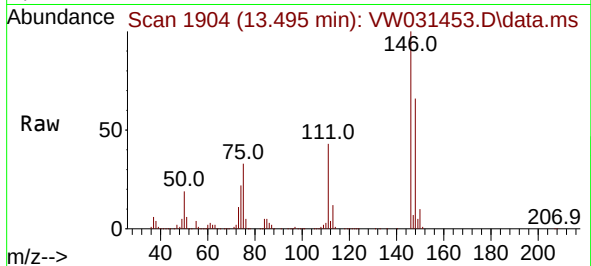




#64  
1,3-Dichlorobenzene  
Concen: 12.657 ug/L  
RT: 13.495 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

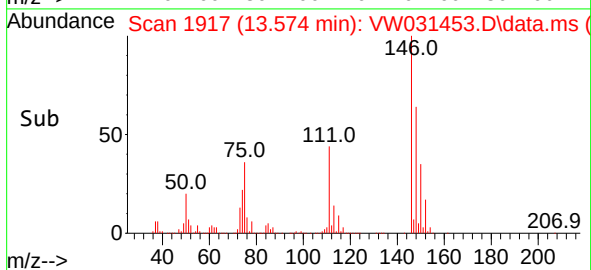
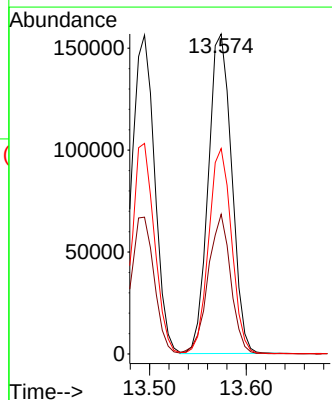
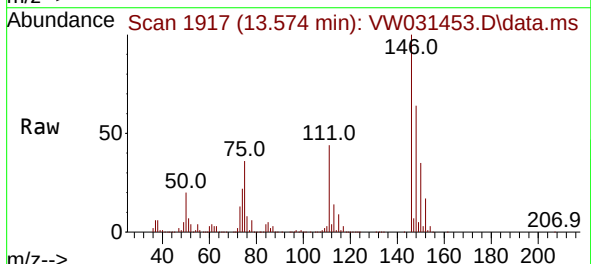
Instrument :  
MSVOA\_W  
ClientSampleId :

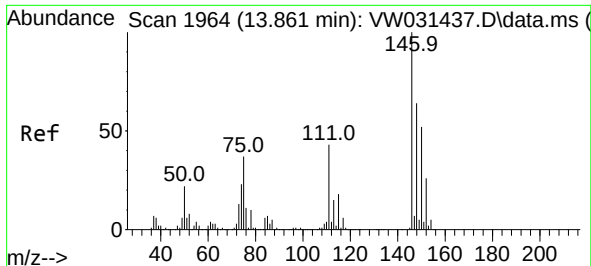
Tgt Ion:146 Resp: 257888  
Ion Ratio Lower Upper  
146 100  
111 42.9 27.6 51.2  
148 66.0 41.0 76.2



#65  
1,4-Dichlorobenzene  
Concen: 13.109 ug/L  
RT: 13.574 min Scan# 1917  
Delta R.T. -0.000 min  
Lab File: VW031453.D  
Acq: 21 Dec 2024 02:15

Tgt Ion:146 Resp: 264653  
Ion Ratio Lower Upper  
146 100  
111 43.7 30.7 56.9  
148 64.2 46.5 86.3





#67

1,2-Dichlorobenzene

Concen: 13.735 ug/L

RT: 13.861 min Scan# 1964

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :

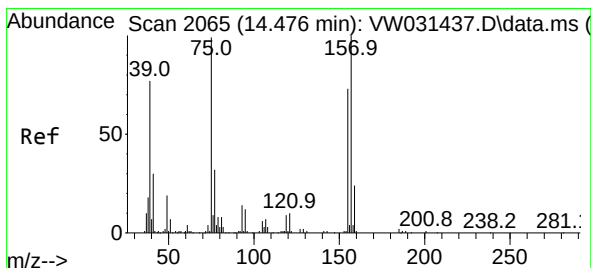
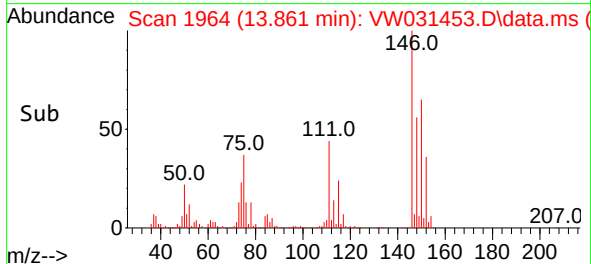
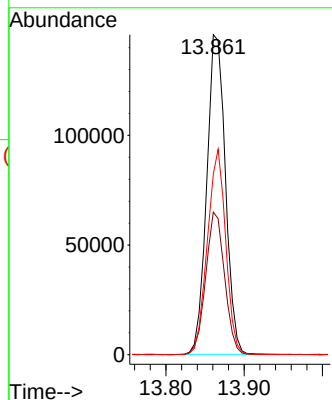
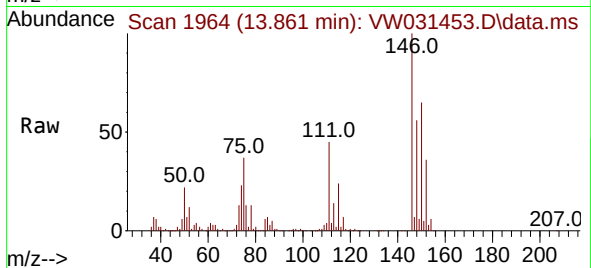
Tgt Ion:146 Resp: 241127

Ion Ratio Lower Upper

146 100

111 44.5 38.6 58.0

148 56.5 53.6 80.4



#68

1,2-Dibromo-3-chloropropane

Concen: 13.041 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

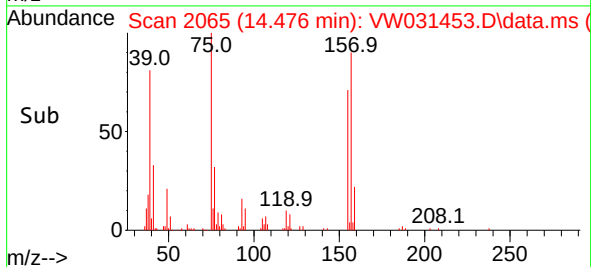
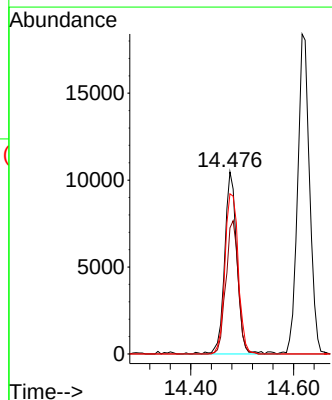
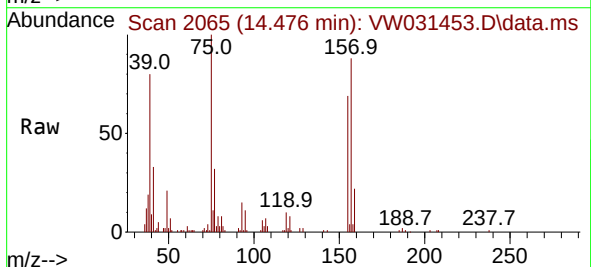
Tgt Ion: 75 Resp: 17403

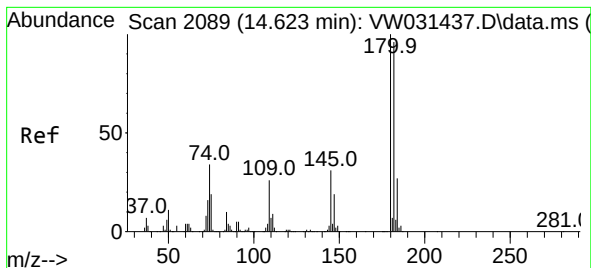
Ion Ratio Lower Upper

75 100

155 69.3 56.6 85.0

157 87.9 71.2 106.8





#69

1,3,5-Trichlorobenzene

Concen: 10.418 ug/L

RT: 14.623 min Scan# 2089

Delta R.T. -0.000 min

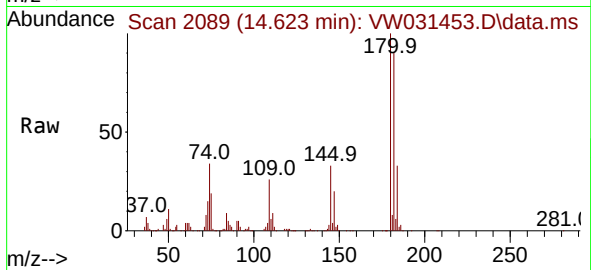
Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :



Tgt Ion:180 Resp: 148664

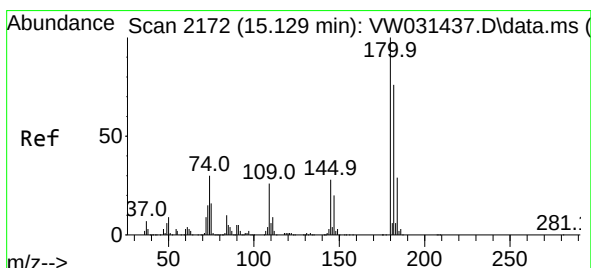
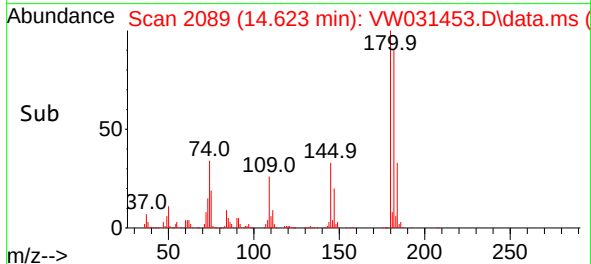
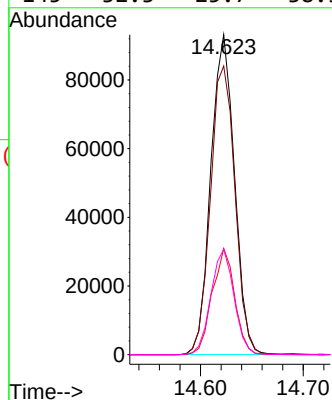
Ion Ratio Lower Upper

180 100

182 93.9 75.0 112.4

184 31.8 24.6 36.8

145 32.3 25.7 38.5



#70

1,2,4-trichlorobenzene

Concen: 9.770 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. -0.006 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

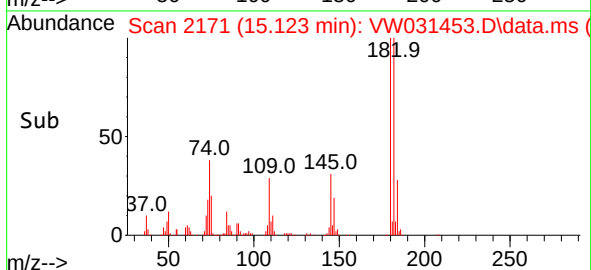
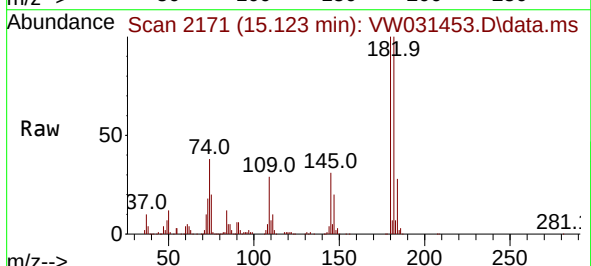
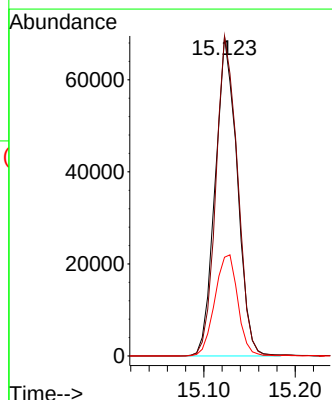
Tgt Ion:180 Resp: 115979

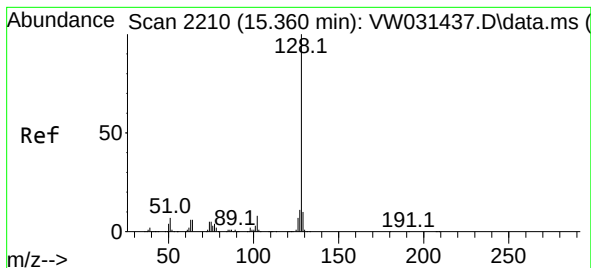
Ion Ratio Lower Upper

180 100

182 98.4 78.2 117.2

145 33.1 26.7 40.1





#71

Naphthalene

Concen: 12.412 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Instrument :

MSVOA\_W

ClientSampleId :

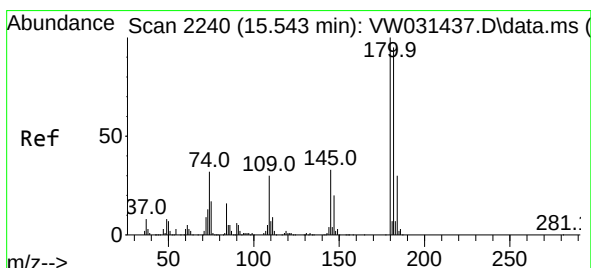
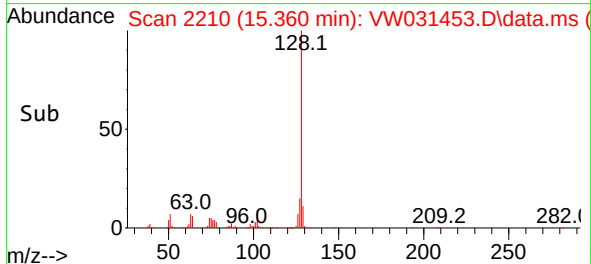
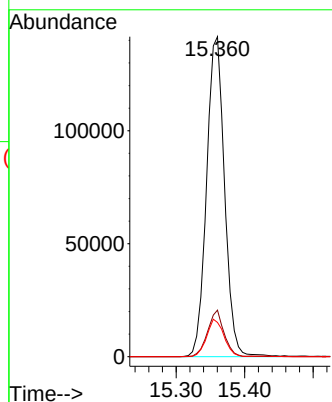
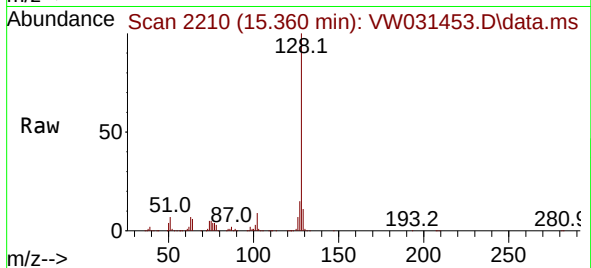
Tgt Ion:128 Resp: 258303

Ion Ratio Lower Upper

128 100

127 13.3 10.7 16.1

129 11.3 8.6 13.0



#72

1,2,3-Trichlorobenzene

Concen: 11.217 ug/L

RT: 15.543 min Scan# 2240

Delta R.T. -0.000 min

Lab File: VW031453.D

Acq: 21 Dec 2024 02:15

Tgt Ion:180 Resp: 107275

Ion Ratio Lower Upper

180 100

182 93.2 75.0 112.4

145 33.8 27.8 41.6

