

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW120321\  
 Data File : VW021116.D  
 Acq On : 04 Dec 2021 14:12  
 Operator : SY/VA  
 Sample : M4885-19MSD  
 Misc : 5.63g/10.0mL/MSVOA\_W/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EW9M4MSD

Quant Time: Dec 06 00:49:23 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM120321SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Dec 04 04:50:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|-------------|----------|
| -----                         |           |       |          |          |             |          |
| Internal Standards            |           |       |          |          |             |          |
| 1) 1,4-Difluorobenzene        | 8.842     | 114   | 69249    | 25.000   | ug/L        | # 0.00   |
| 28) Chlorobenzene-d5          | 11.634    | 117   | 67300    | 25.000   | ug/L        | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.554    | 152   | 38446    | 25.000   | ug/L        | 0.00     |
| System Monitoring Compounds   |           |       |          |          |             |          |
| 4) Vinyl Chloride-d3          | 2.355     | 65    | 33968    | 35.207   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 150 | Recovery | = 140.840%  |          |
| 7) Chloroethane-d5            | 2.885     | 69    | 22688    | 35.128   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 150 | Recovery | = 140.520%  |          |
| 11) 1,1-Dichloroethene-d2     | 4.019     | 63    | 48654    | 31.566   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 45 - 110 | Recovery | = 126.280%# |          |
| 21) 2-Butanone-d5             | 7.074     | 46    | 13628    | 61.925   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 20 - 135 | Recovery | = 123.860%  |          |
| 24) Chloroform-d              | 7.653     | 84    | 55134    | 31.791   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 40 - 150 | Recovery | = 127.160%  |          |
| 26) 1,2-Dichloroethane-d4     | 8.305     | 65    | 30461    | 32.106   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 70 - 130 | Recovery | = 128.440%  |          |
| 32) Benzene-d6                | 8.275     | 84    | 102488   | 29.783   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 20 - 135 | Recovery | = 119.120%  |          |
| 36) 1,2-Dichloropropane-d6    | 9.274     | 67    | 29297    | 30.637   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 70 - 120 | Recovery | = 122.560%# |          |
| 41) Toluene-d8                | 10.323    | 98    | 101611   | 28.798   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 130 | Recovery | = 115.200%  |          |
| 43) trans-1,3-Dichloroprop... | 10.579    | 79    | 14106    | 32.486   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 30 - 135 | Recovery | = 129.960%  |          |
| 47) 2-Hexanone-d5             | 10.920    | 63    | 11537    | 63.057   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 20 - 135 | Recovery | = 126.120%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.688    | 84    | 26501    | 29.955   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 45 - 120 | Recovery | = 119.840%  |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.853    | 152   | 36728    | 26.662   | ug/L        | 0.00     |
| Spiked Amount                 | 25.000    | Range | 75 - 120 | Recovery | = 106.640%  |          |
| Target Compounds              |           |       |          |          |             |          |
|                               |           |       |          |          |             | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.007     | 85    | 8846     | 26.152   | ug/L        | 100      |
| 3) Chloromethane              | 2.215     | 50    | 21536    | 28.440   | ug/L        | 98       |
| 5) Vinyl chloride             | 2.361     | 62    | 39318    | 29.889   | ug/L        | 96       |
| 6) Bromomethane               | 2.782     | 94    | 25705    | 29.388   | ug/L        | 97       |
| 8) Chloroethane               | 2.922     | 64    | 18335    | 33.443   | ug/L        | 98       |
| 9) Trichlorofluoromethane     | 3.257     | 101   | 20391    | 32.102   | ug/L        | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 4.068     | 101   | 28392    | 28.557   | ug/L        | 90       |
| 12) 1,1-Dichloroethene        | 4.044     | 96    | 25731    | 28.627   | ug/L        | 79       |
| 13) Acetone                   | 4.123     | 43    | 11736    | 58.544   | ug/L        | 92       |
| 14) Carbon disulfide          | 4.385     | 76    | 73456    | 29.442   | ug/L        | 98       |
| 15) Methyl Acetate            | 4.678     | 43    | 10796    | 29.702   | ug/L        | 92       |
| 16) Methylene chloride        | 4.915     | 84    | 28631    | 26.243   | ug/L        | 82       |
| 17) trans-1,2-Dichloroethene  | 5.428     | 96    | 28153    | 29.417   | ug/L        | 84       |
| 18) Methyl tert-butyl Ether   | 5.428     | 73    | 47138    | 32.634   | ug/L        | 93       |
| 19) 1,1-Dichloroethane        | 6.220     | 63    | 44820    | 29.534   | ug/L        | 95       |
| 20) cis-1,2-Dichloroethene    | 7.171     | 96    | 30129    | 29.674   | ug/L        | 85       |
| 22) 2-Butanone                | 7.171     | 43    | 15723    | 56.676   | ug/L        | 86       |
| 23) Bromochloromethane        | 7.519     | 128   | 15071    | 31.724   | ug/L #      | 62       |
| 25) Chloroform                | 7.677     | 83    | 51065    | 29.977   | ug/L        | 98       |

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 Quant Title : SFAM01.0  
 QLast Update : Sat Dec 04 04:50:24 2021  
 Response via : Initial Calibration

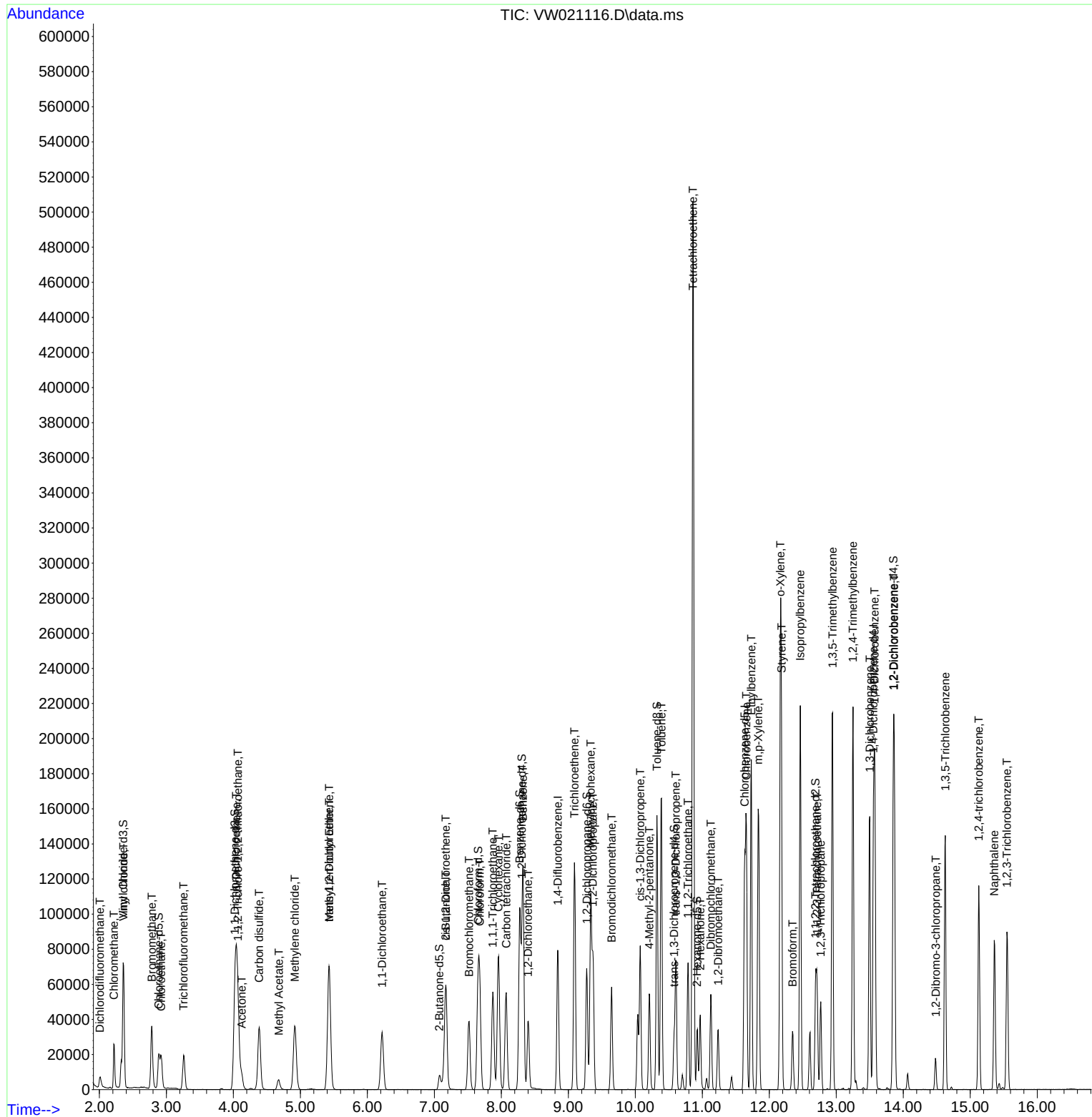
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.397  | 62   | 34864    | 31.286  | ug/L   | 99       |
| 29) Cyclohexane               | 7.958  | 56   | 39633    | 26.695  | ug/L # | 81       |
| 30) 1,1,1-Trichloroethane     | 7.872  | 97   | 44297    | 28.230  | ug/L   | 95       |
| 31) Carbon tetrachloride      | 8.073  | 117  | 40770    | 27.961  | ug/L   | 96       |
| 33) Benzene                   | 8.323  | 78   | 107215   | 28.015  | ug/L   | 100      |
| 34) Trichloroethene           | 9.092  | 95   | 42568    | 40.317  | ug/L   | 95       |
| 35) Methylcyclohexane         | 9.335  | 83   | 45399    | 25.545  | ug/L # | 84       |
| 37) 1,2-Dichloropropane       | 9.366  | 63   | 24685    | 28.538  | ug/L # | 95       |
| 38) Bromodichloromethane      | 9.646  | 83   | 35628    | 29.300  | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 10.073 | 75   | 41883    | 29.935  | ug/L   | 97       |
| 40) 4-Methyl-2-pentanone      | 10.207 | 43   | 34374    | 58.333  | ug/L # | 93       |
| 42) Toluene                   | 10.390 | 91   | 121777   | 27.858  | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 10.603 | 75   | 37006    | 29.234  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 10.786 | 97   | 22173    | 30.575  | ug/L   | 96       |
| 46) Tetrachloroethene         | 10.859 | 164  | 110114   | 113.893 | ug/L   | 93       |
| 48) 2-Hexanone                | 10.969 | 43   | 26182    | 61.592  | ug/L # | 96       |
| 49) Dibromochloromethane      | 11.128 | 129  | 26679    | 29.435  | ug/L   | 90       |
| 50) 1,2-Dibromoethane         | 11.237 | 107  | 22402    | 30.291  | ug/L # | 96       |
| 51) Chlorobenzene             | 11.658 | 112  | 78964    | 27.035  | ug/L   | 91       |
| 52) Ethylbenzene              | 11.731 | 91   | 129097   | 26.234  | ug/L   | 97       |
| 53) m,p-Xylene                | 11.835 | 106  | 52683    | 25.879  | ug/L   | 89       |
| 54) o-Xylene                  | 12.164 | 106  | 50568    | 26.346  | ug/L   | 94       |
| 55) Styrene                   | 12.182 | 104  | 87866    | 26.869  | ug/L   | 88       |
| 57) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 25616    | 29.367  | ug/L   | 97       |
| 59) Bromoform                 | 12.347 | 173  | 15435    | 28.152  | ug/L   | 94       |
| 60) Isopropylbenzene          | 12.463 | 105  | 139703   | 26.146  | ug/L   | 97       |
| 61) 1,2,3-Trichloropropane    | 12.768 | 75   | 18533    | 28.777  | ug/L   | 93       |
| 62) 1,3,5-Trimethylbenzene    | 12.944 | 105  | 114985   | 25.698  | ug/L   | 96       |
| 63) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 115016   | 25.558  | ug/L   | 96       |
| 64) 1,3-Dichlorobenzene       | 13.499 | 146  | 65235    | 25.930  | ug/L   | 90       |
| 65) 1,4-Dichlorobenzene       | 13.572 | 146  | 62548    | 24.599  | ug/L   | 94       |
| 67) 1,2-Dichlorobenzene       | 13.865 | 146  | 58038    | 25.909  | ug/L   | 94       |
| 68) 1,2-Dibromo-3-chloropr... | 14.487 | 75   | 3988     | 27.422  | ug/L # | 72       |
| 69) 1,3,5-Trichlorobenzene    | 14.627 | 180  | 45286    | 24.492  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 15.127 | 180  | 36009    | 23.700  | ug/L   | 96       |
| 71) Naphthalene               | 15.359 | 128  | 73327    | 25.961  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.548 | 180  | 30730    | 23.175  | ug/L   | 95       |

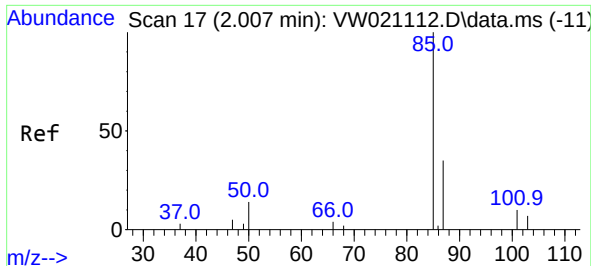
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

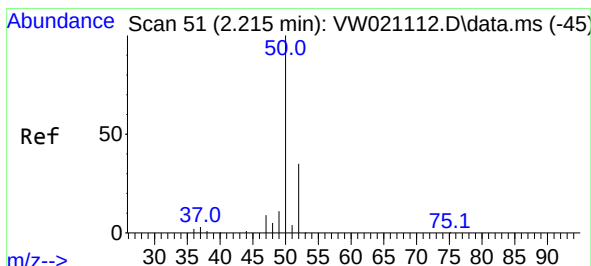
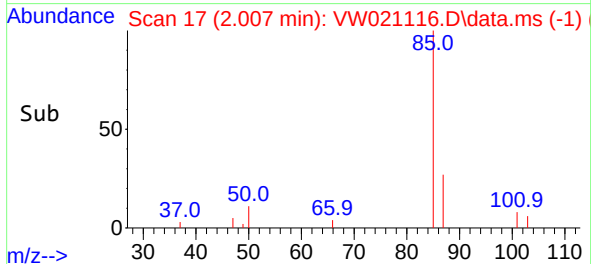
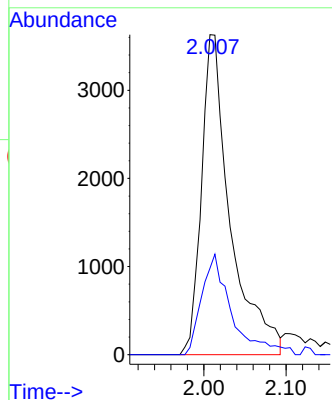
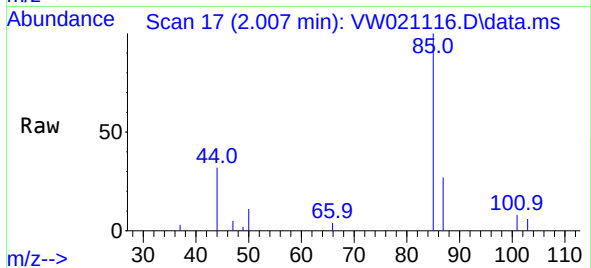




#2  
 Dichlorodifluoromethane  
 Concen: 26.152 ug/L  
 RT: 2.007 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VW021116.D  
 Acq: 04 Dec 2021 14:12

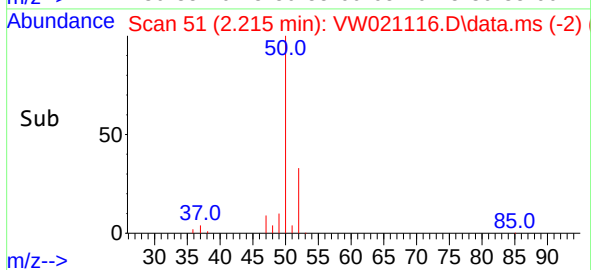
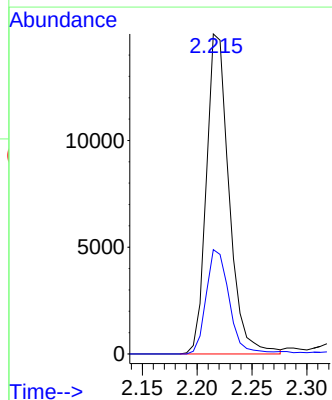
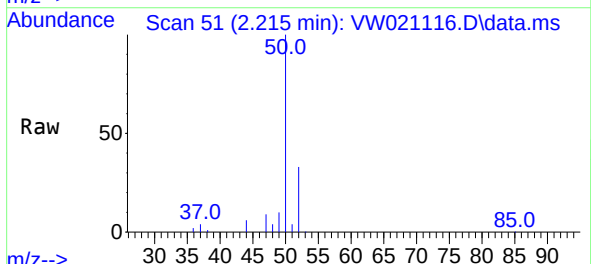
Instrument :  
 MSVOA\_W  
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 EW9M4MSD

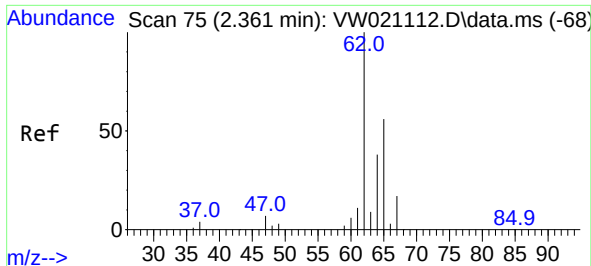
Tgt Ion: 85 Resp: 8846  
 Ion Ratio Lower Upper  
 85 100  
 87 32.3 25.8 38.6



#3  
 Chloromethane  
 Concen: 28.440 ug/L  
 RT: 2.215 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VW021116.D  
 Acq: 04 Dec 2021 14:12

Tgt Ion: 50 Resp: 21536  
 Ion Ratio Lower Upper  
 50 100  
 52 32.6 23.4 43.6

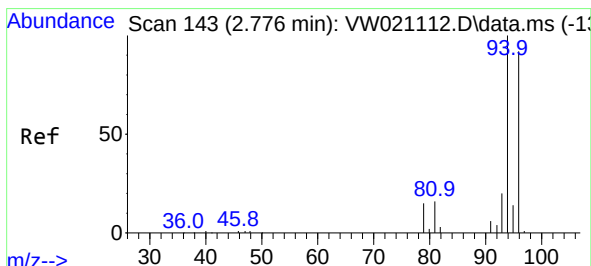
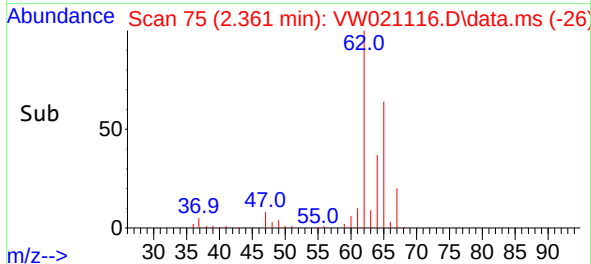
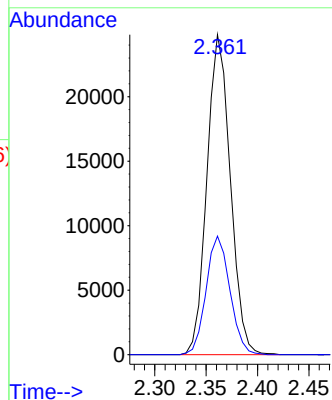
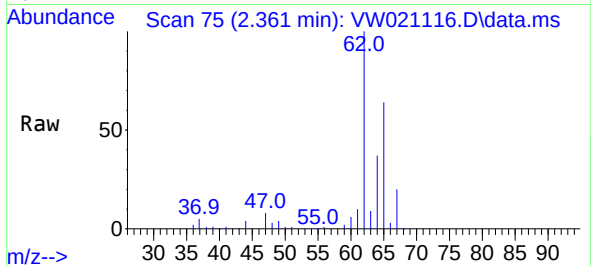




#5  
 Vinyl chloride  
 Concen: 29.889 ug/L  
 RT: 2.361 min Scan# 75  
 Delta R.T. -0.000 min  
 Lab File: VW021116.D  
 Acq: 04 Dec 2021 14:12

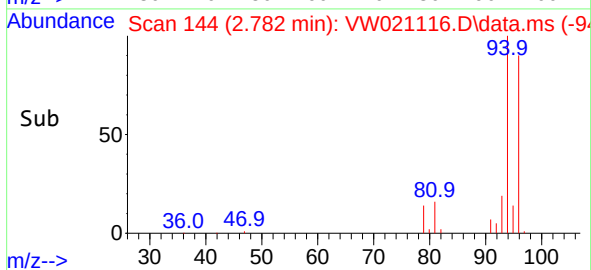
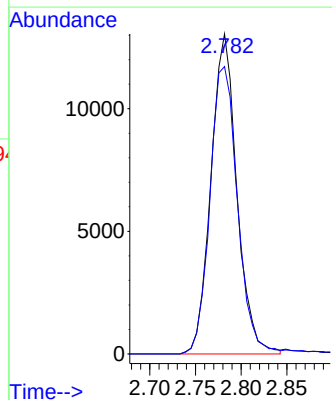
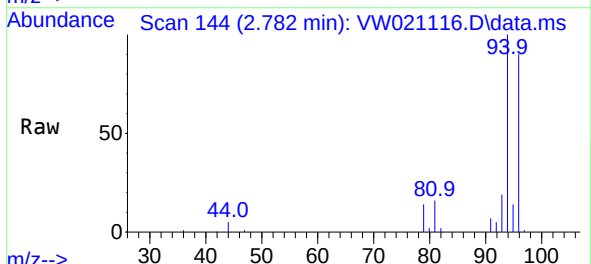
Instrument :  
 MSVOA\_W  
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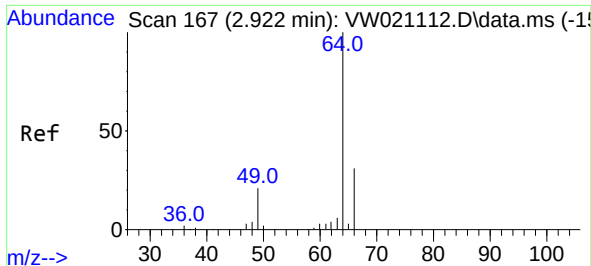
Tgt Ion: 62 Resp: 39318  
 Ion Ratio Lower Upper  
 62 100  
 64 37.0 24.4 45.2



#6  
 Bromomethane  
 Concen: 29.388 ug/L  
 RT: 2.782 min Scan# 144  
 Delta R.T. 0.006 min  
 Lab File: VW021116.D  
 Acq: 04 Dec 2021 14:12

Tgt Ion: 94 Resp: 25705  
 Ion Ratio Lower Upper  
 94 100  
 96 89.8 64.8 120.4





#8

Chloroethane

Concen: 33.443 ug/L

RT: 2.922 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

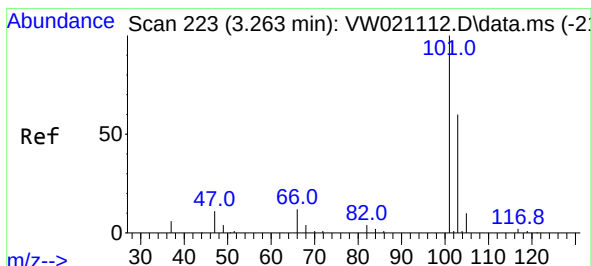
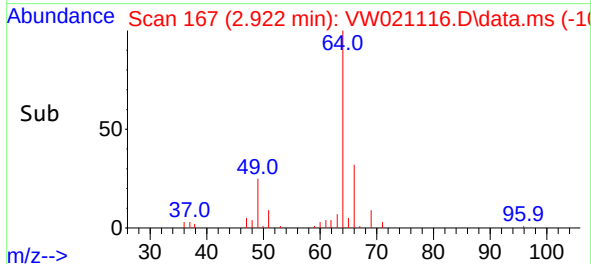
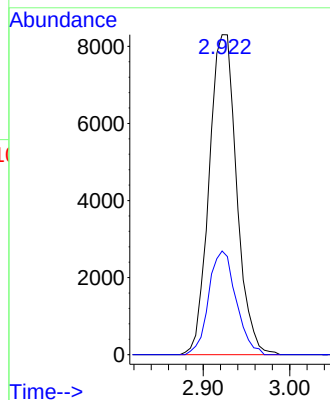
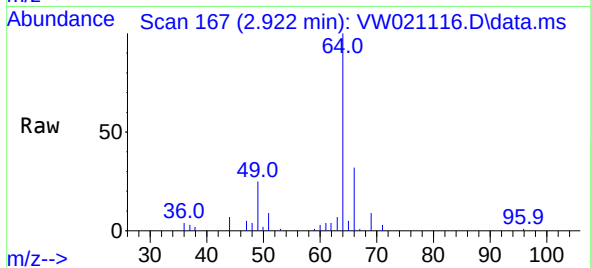
EW9M4MSD

Tgt Ion: 64 Resp: 18335

Ion Ratio Lower Upper

64 100

66 32.4 22.0 40.8



#9

Trichlorofluoromethane

Concen: 32.102 ug/L

RT: 3.257 min Scan# 222

Delta R.T. -0.006 min

Lab File: VW021116.D

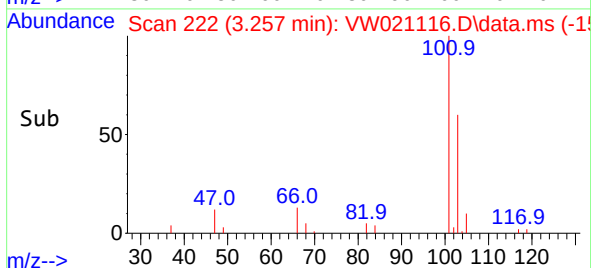
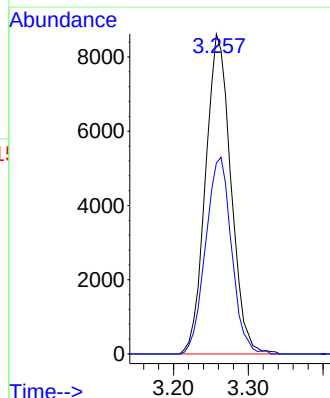
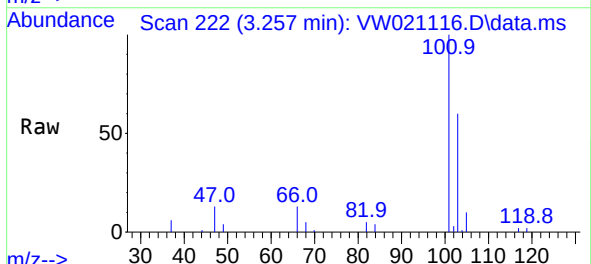
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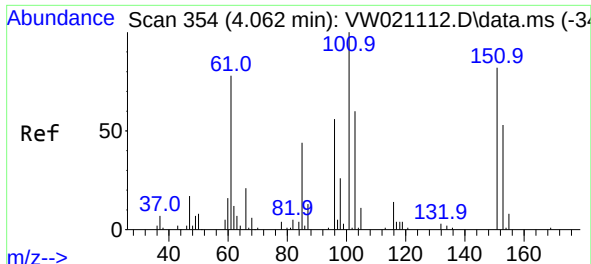
Tgt Ion: 101 Resp: 20391

Ion Ratio Lower Upper

101 100

103 62.4 51.4 77.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 28.557 ug/L

RT: 4.068 min Scan# 3

Delta R.T. 0.006 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

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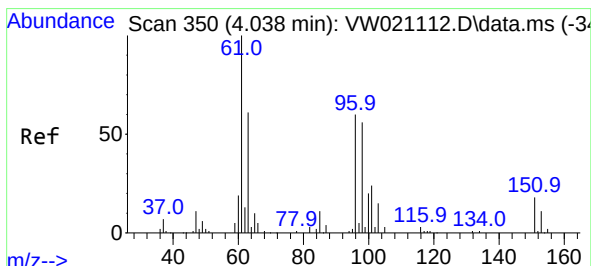
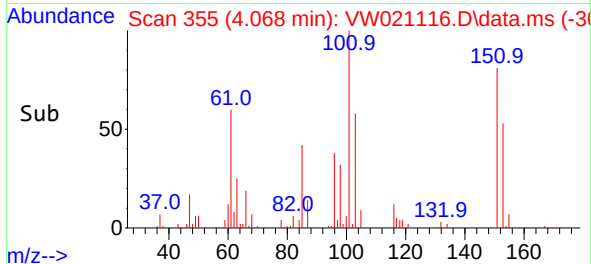
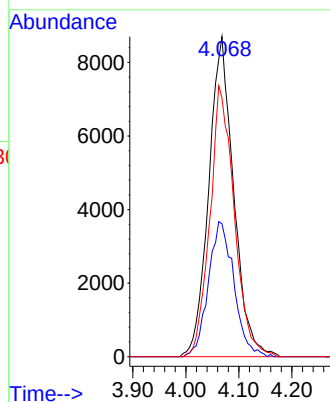
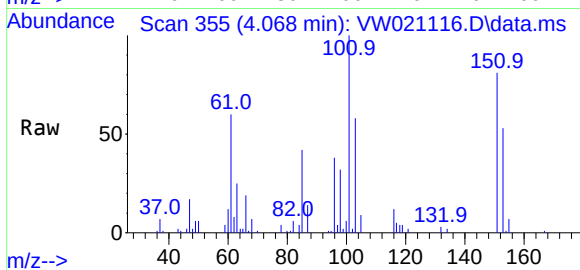
Tgt Ion:101 Resp: 28392

Ion Ratio Lower Upper

101 100

85 43.2 36.6 54.8

151 82.8 57.4 86.0



#12

1,1-Dichloroethene

Concen: 28.627 ug/L

RT: 4.044 min Scan# 351

Delta R.T. -0.006 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

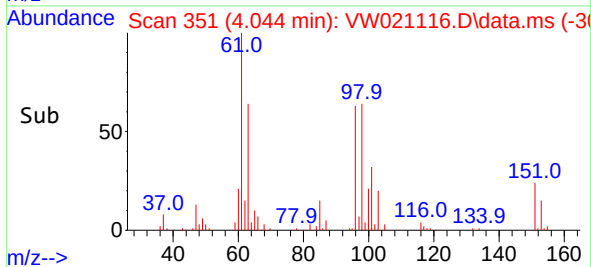
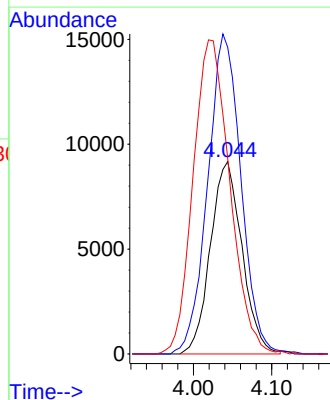
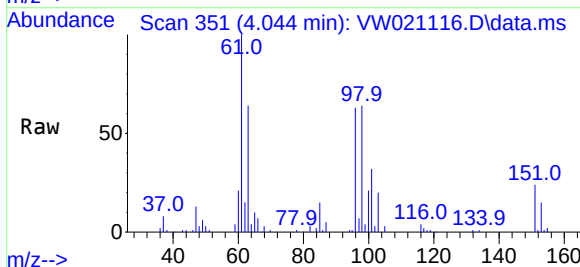
Tgt Ion: 96 Resp: 25731

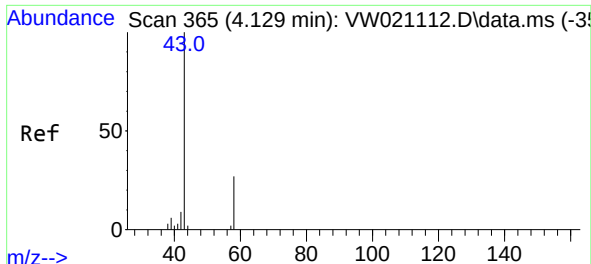
Ion Ratio Lower Upper

96 100

61 159.5 138.3 256.9

63 101.8 82.6 153.4

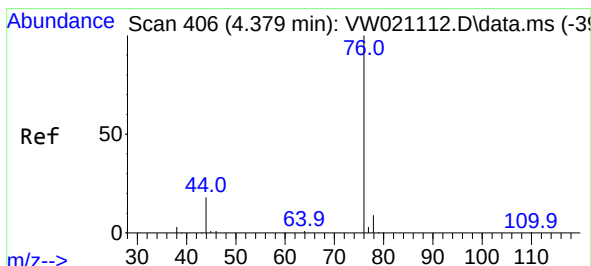
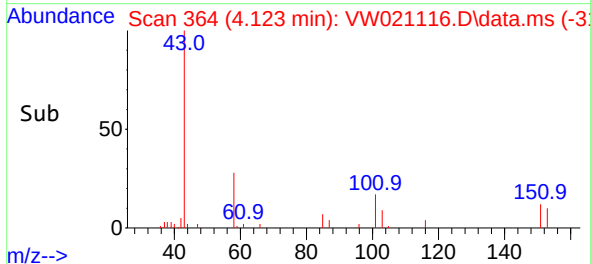
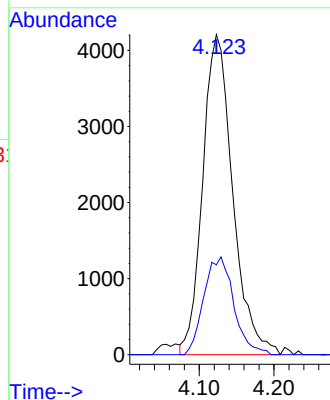
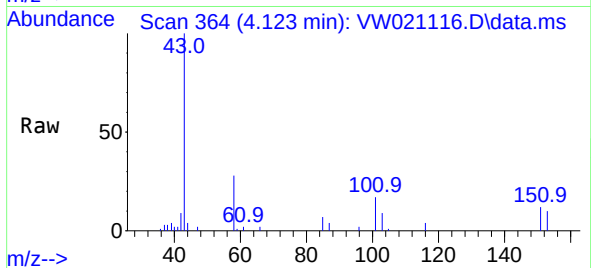




#13  
Acetone  
Concen: 58.544 ug/L  
RT: 4.123 min Scan# 364  
Delta R.T. -0.012 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

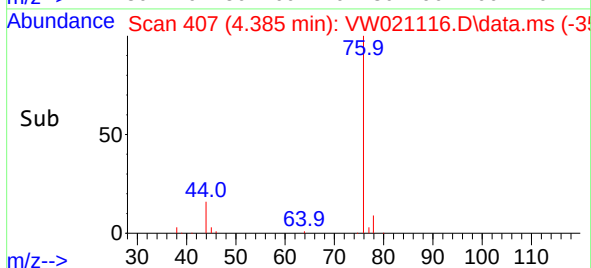
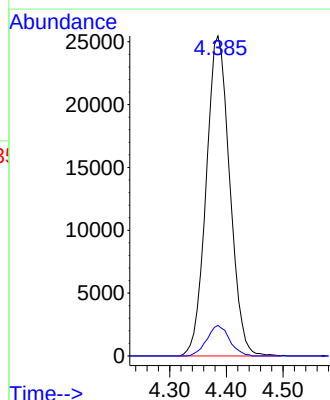
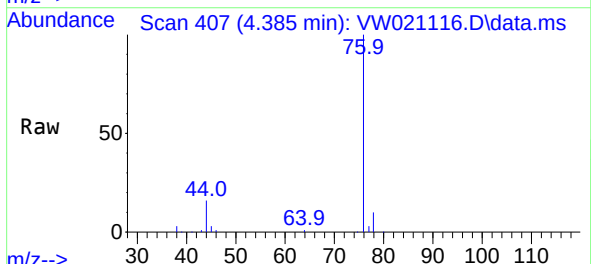
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

Tgt Ion: 43 Resp: 11736  
Ion Ratio Lower Upper  
43 100  
58 30.5 0.0 52.8

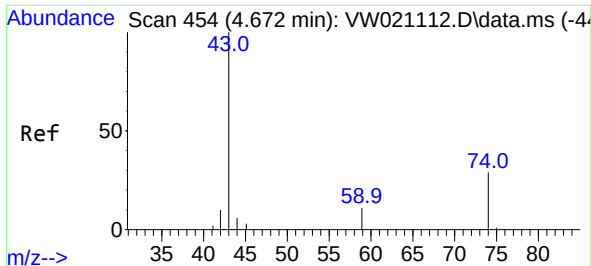


#14  
Carbon disulfide  
Concen: 29.442 ug/L  
RT: 4.385 min Scan# 407  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 76 Resp: 73456  
Ion Ratio Lower Upper  
76 100  
78 9.5 7.1 10.7



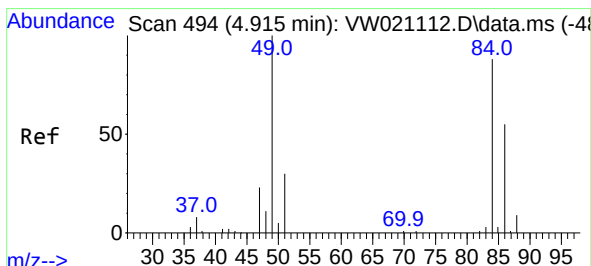
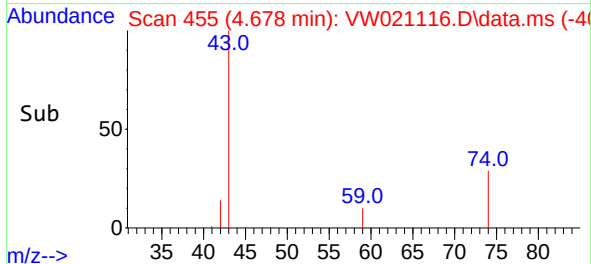
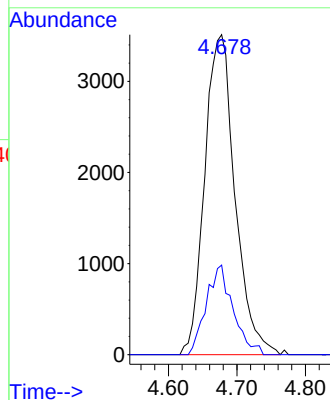
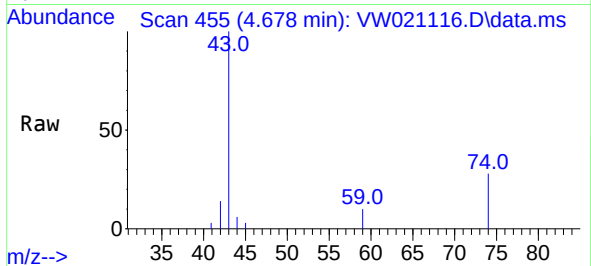




#15  
Methyl Acetate  
Concen: 29.702 ug/L  
RT: 4.678 min Scan# 415  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

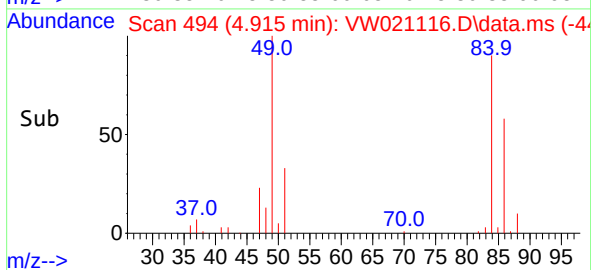
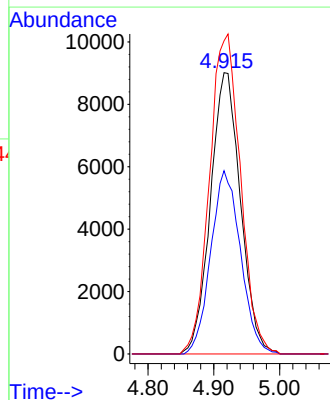
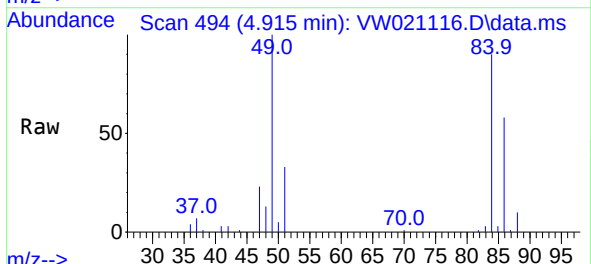
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

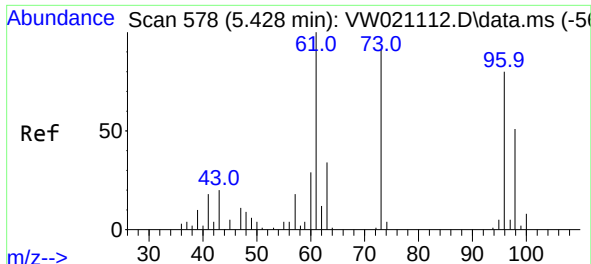
Tgt Ion: 43 Resp: 10796  
Ion Ratio Lower Upper  
43 100  
74 24.2 16.4 24.6



#16  
Methylene chloride  
Concen: 26.243 ug/L  
RT: 4.915 min Scan# 494  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 84 Resp: 28631  
Ion Ratio Lower Upper  
84 100  
86 65.1 45.5 84.5  
49 111.4 100.5 186.7

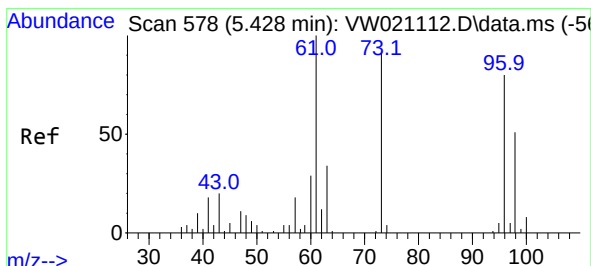
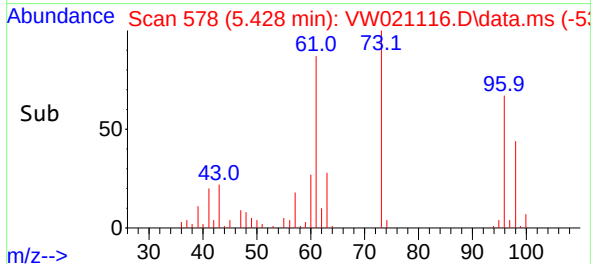
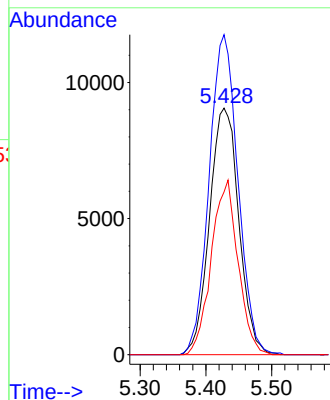
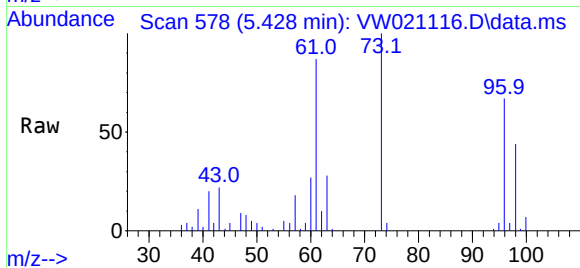




#17  
trans-1,2-Dichloroethene  
Concen: 29.417 ug/L  
RT: 5.428 min Scan# 578  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

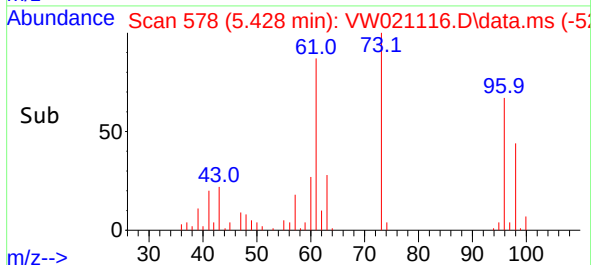
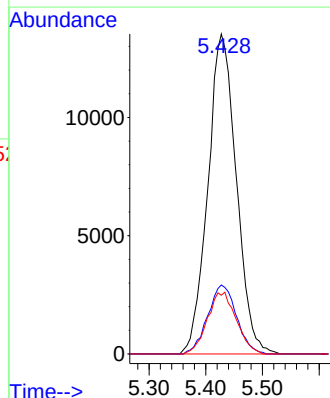
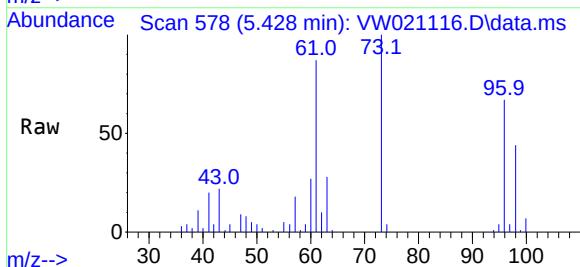
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

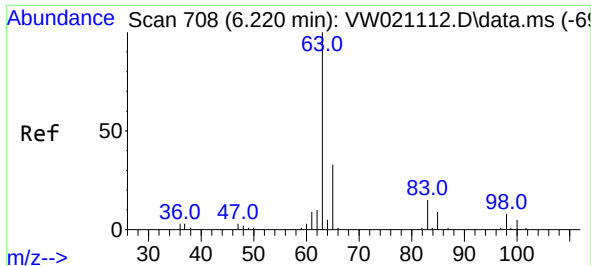
Tgt Ion: 96 Resp: 28153  
Ion Ratio Lower Upper  
96 100  
61 129.8 107.4 199.4  
98 66.0 41.2 76.6



#18  
Methyl tert-butyl Ether  
Concen: 32.634 ug/L  
RT: 5.428 min Scan# 578  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 73 Resp: 47138  
Ion Ratio Lower Upper  
73 100  
43 21.8 19.5 29.3  
57 19.6 19.3 28.9





#19

1,1-Dichloroethane

Concen: 29.534 ug/L

RT: 6.220 min Scan# 708

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

EW9M4MSD

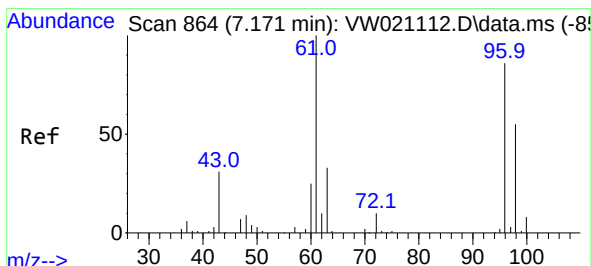
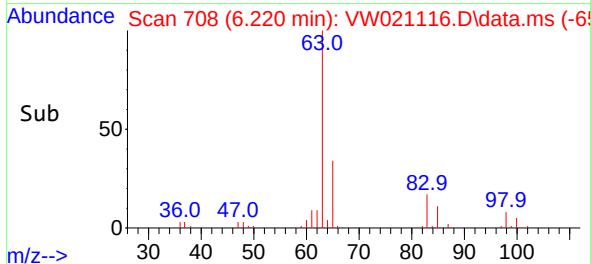
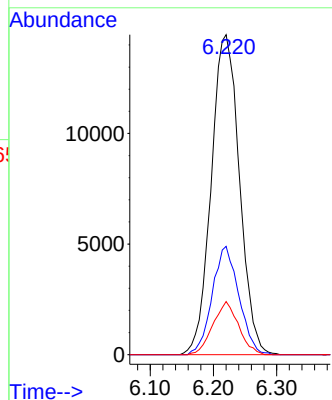
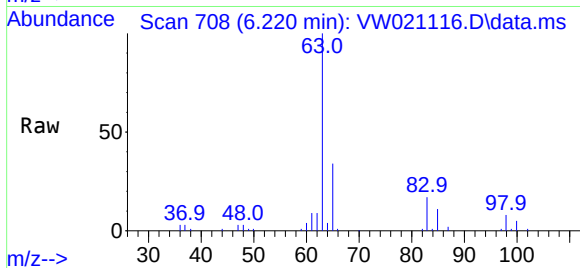
Tgt Ion: 63 Resp: 44820

Ion Ratio Lower Upper

63 100

65 33.9 22.1 41.1

83 16.6 9.2 17.2



#20

cis-1,2-Dichloroethene

Concen: 29.674 ug/L

RT: 7.171 min Scan# 864

Delta R.T. 0.006 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

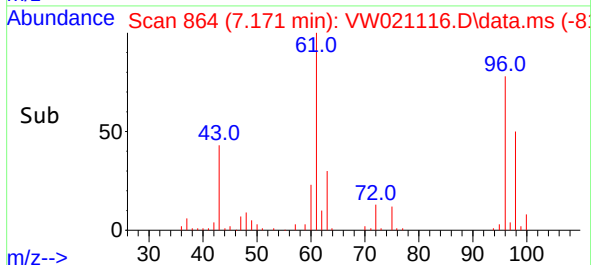
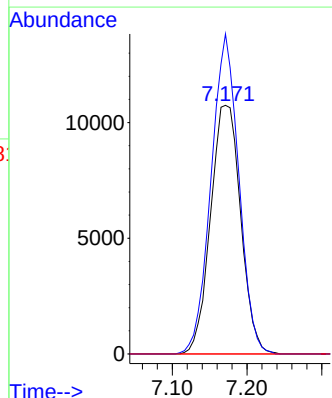
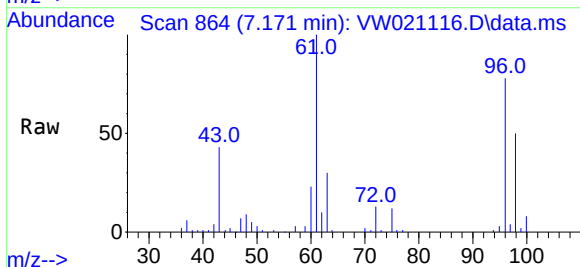
Tgt Ion: 96 Resp: 30129

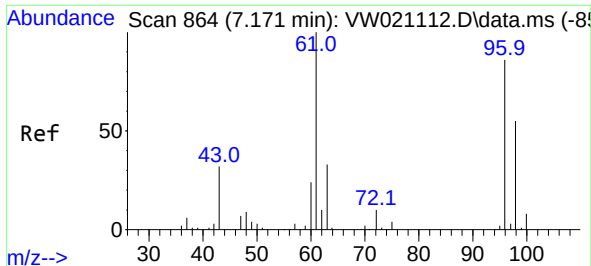
Ion Ratio Lower Upper

96 100

61 128.7 103.7 192.7

68 0.0 0.0 0.0

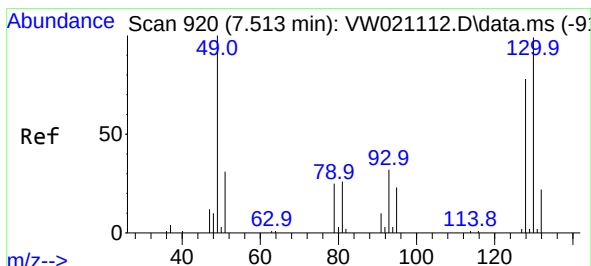
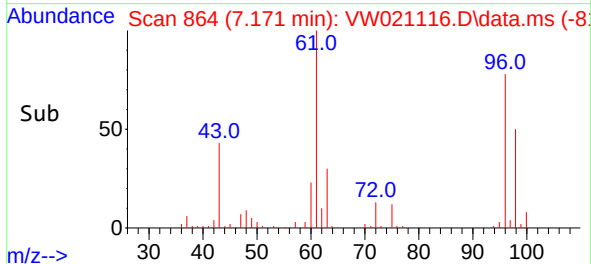
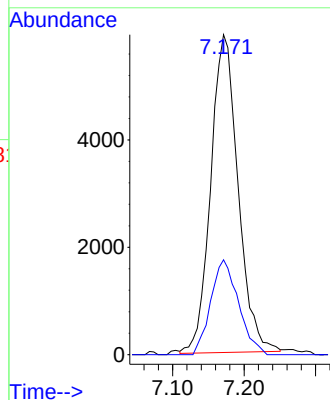
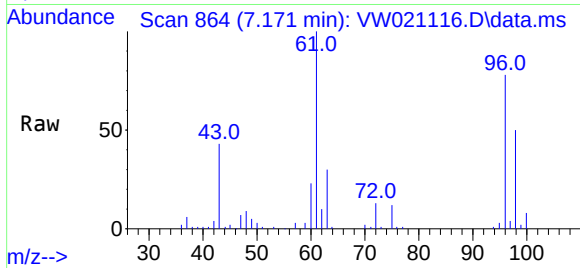




#22  
2-Butanone  
Concen: 56.676 ug/L  
RT: 7.171 min Scan# 864  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

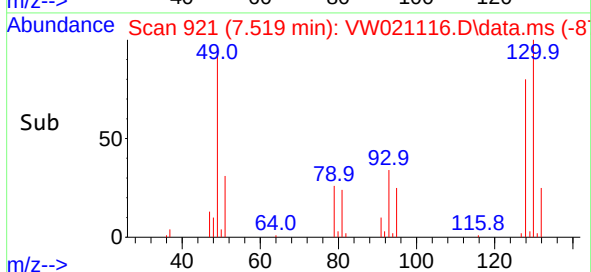
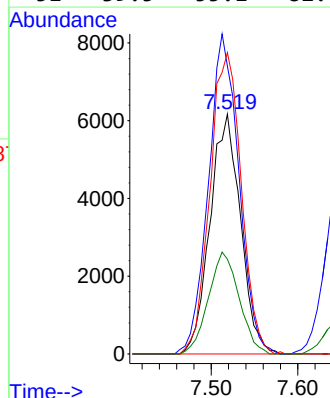
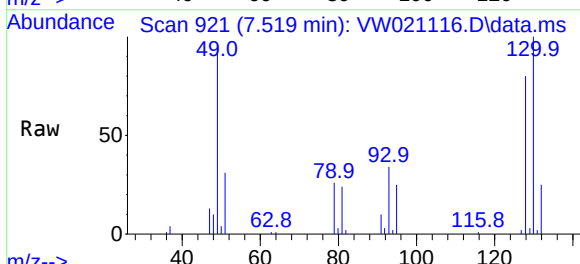
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

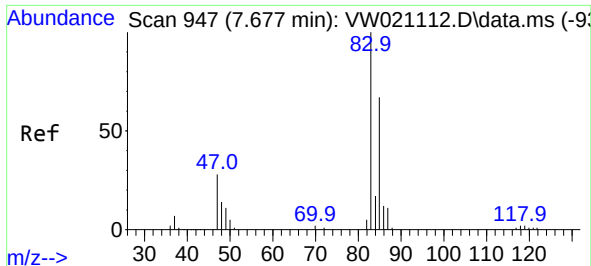
Tgt Ion: 43 Resp: 15723  
Ion Ratio Lower Upper  
43 100  
72 30.3 11.8 35.4



#23  
Bromochloromethane  
Concen: 31.724 ug/L  
RT: 7.519 min Scan# 921  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 128 Resp: 15071  
Ion Ratio Lower Upper  
128 100  
49 120.0 150.3 279.1#  
130 125.6 88.3 163.9  
51 39.5 55.1 82.7#

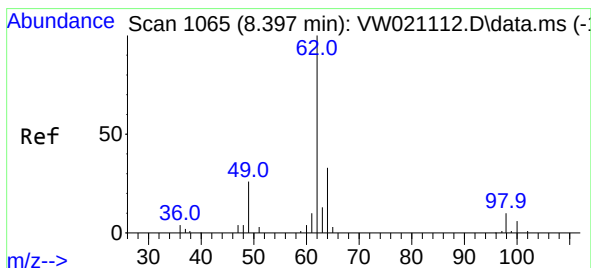
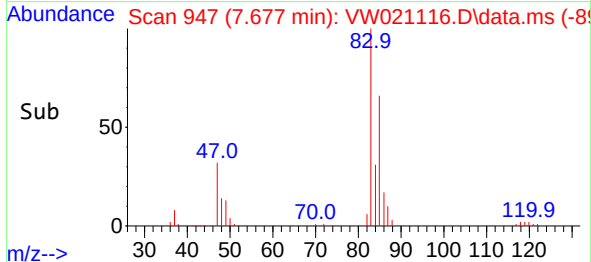
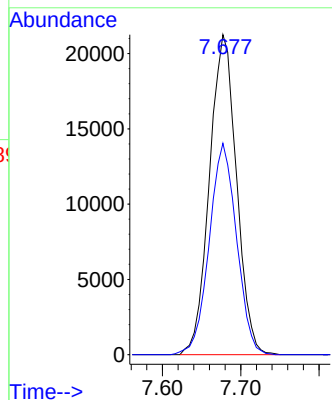
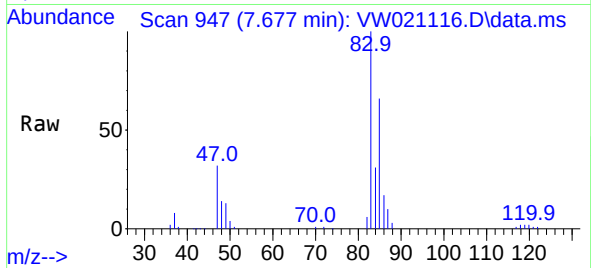




#25  
Chloroform  
Concen: 29.977 ug/L  
RT: 7.677 min Scan# 94  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

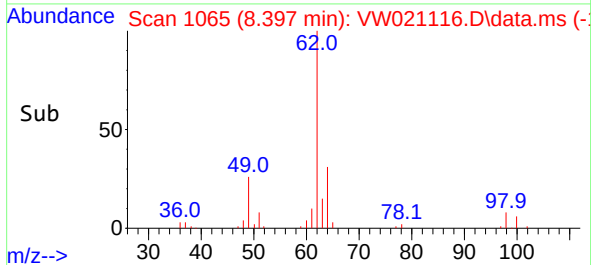
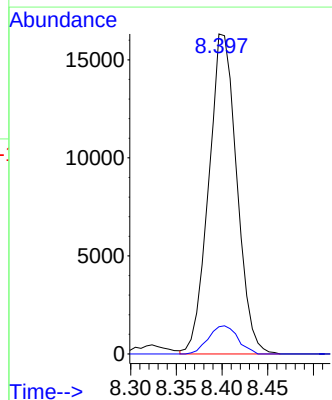
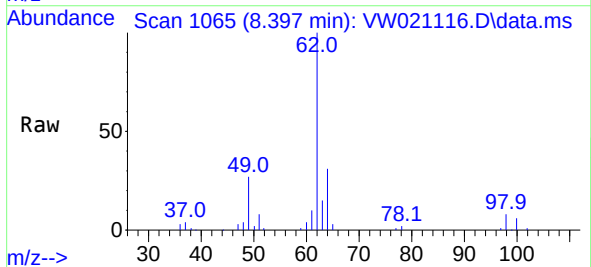
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

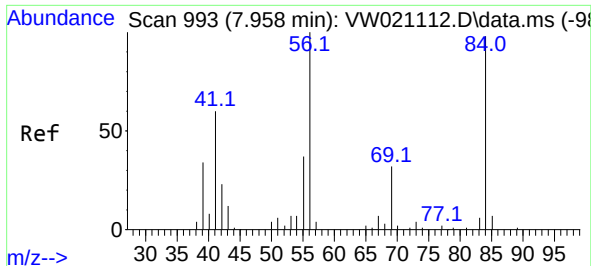
Tgt Ion: 83 Resp: 51065  
Ion Ratio Lower Upper  
83 100  
85 66.0 45.1 83.7



#27  
1,2-Dichloroethane  
Concen: 31.286 ug/L  
RT: 8.397 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 62 Resp: 34864  
Ion Ratio Lower Upper  
62 100  
98 8.5 6.5 9.7

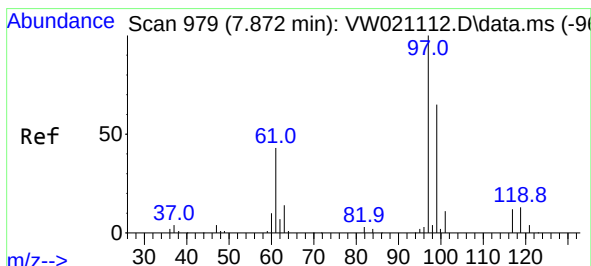
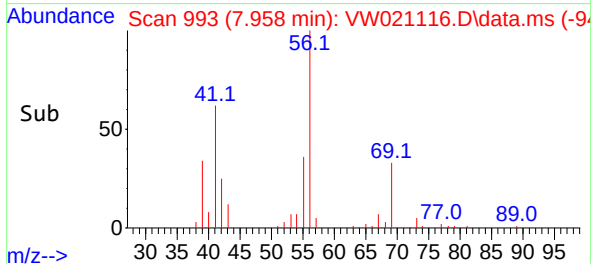
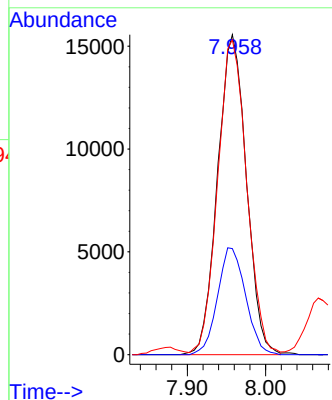
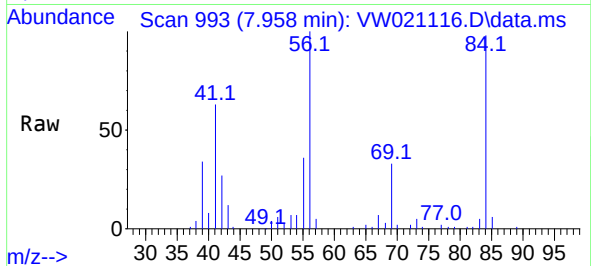




#29  
Cyclohexane  
Concen: 26.695 ug/L  
RT: 7.958 min Scan# 993  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

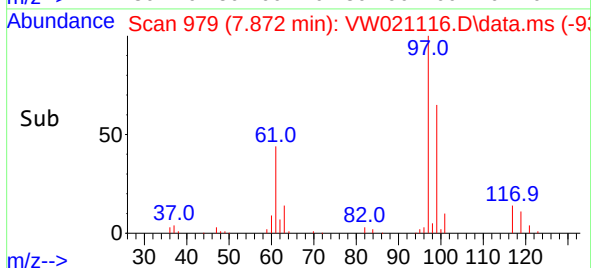
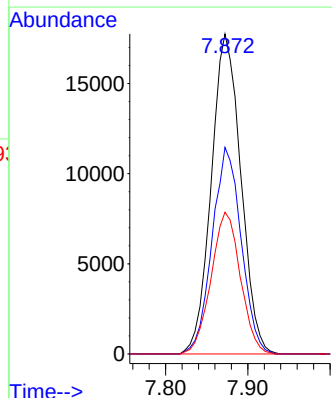
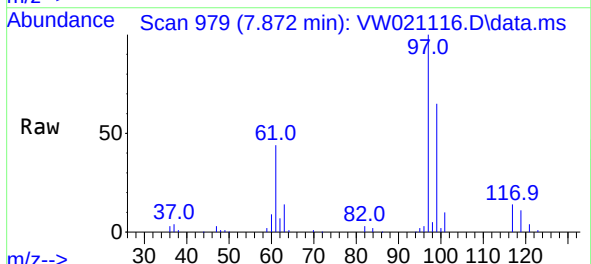
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

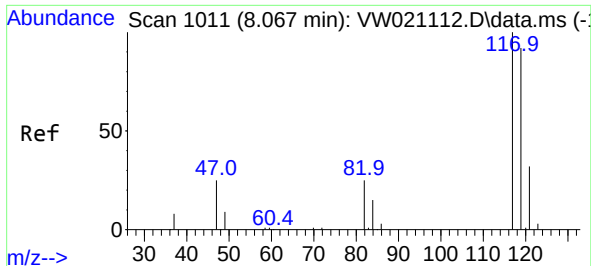
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 39633 |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 32.6  | 23.5  | 35.3  |
| 84       | 99.6  | 63.4  | 95.2  |



#30  
1,1,1-Trichloroethane  
Concen: 28.230 ug/L  
RT: 7.872 min Scan# 979  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 44297 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.5  | 51.6  | 77.4  |
| 61       | 43.9  | 40.9  | 61.3  |

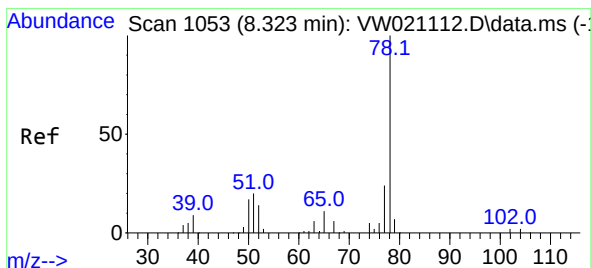
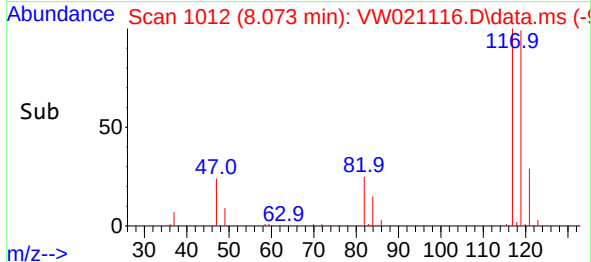
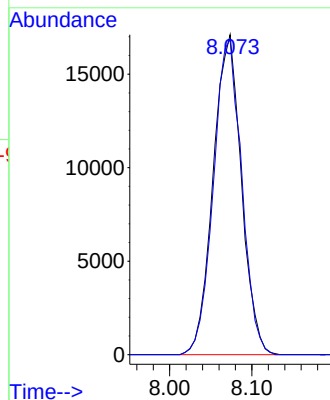
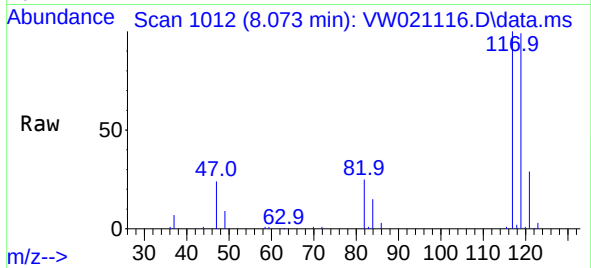




#31  
Carbon tetrachloride  
Concen: 27.961 ug/L  
RT: 8.073 min Scan# 1011  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

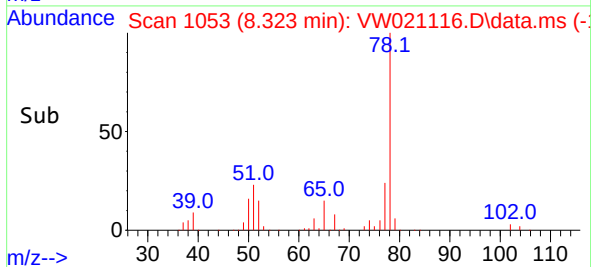
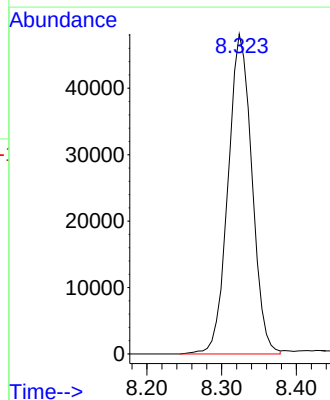
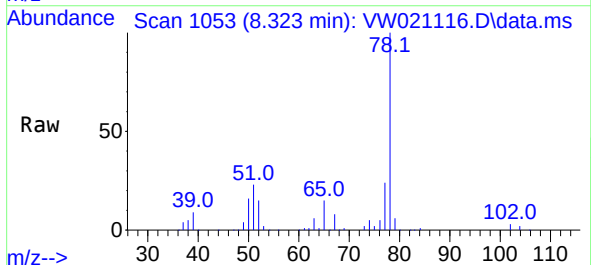
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

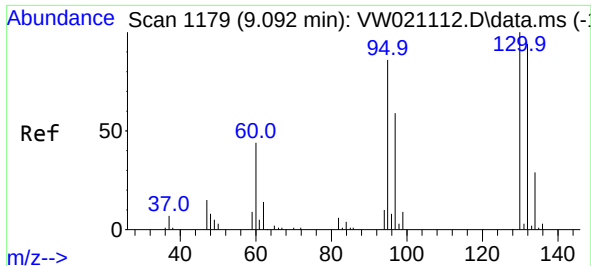
Tgt Ion:117 Resp: 40770  
Ion Ratio Lower Upper  
117 100  
119 98.7 75.7 113.5



#33  
Benzene  
Concen: 28.015 ug/L  
RT: 8.323 min Scan# 1053  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 78 Resp: 107215



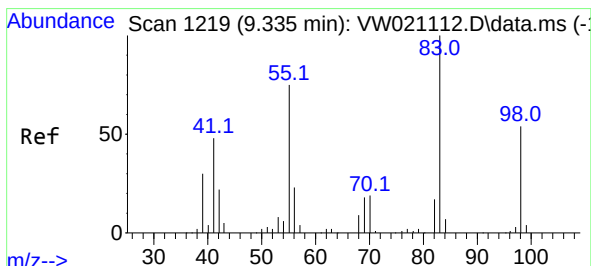
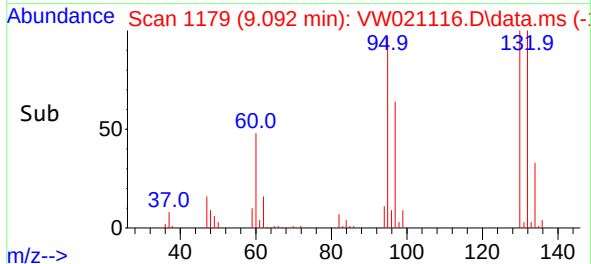
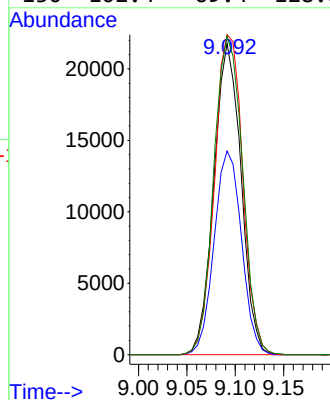
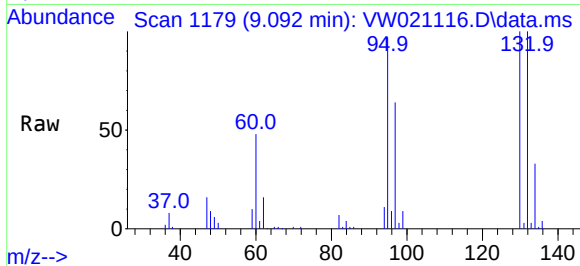


#34  
Trichloroethene  
Concen: 40.317 ug/L  
RT: 9.092 min Scan# 1179  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

Tgt Ion: 95 Resp: 42568

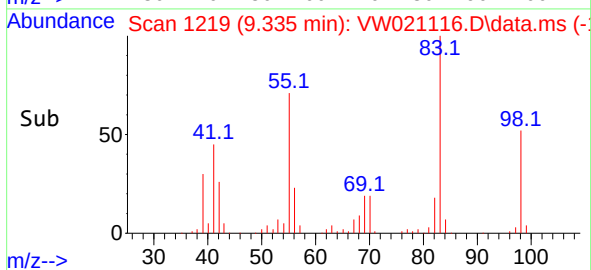
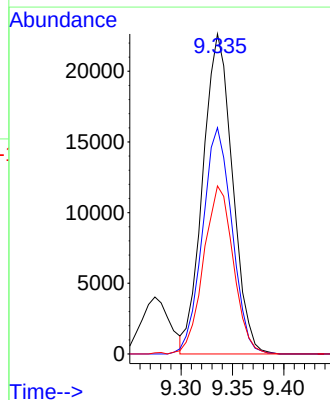
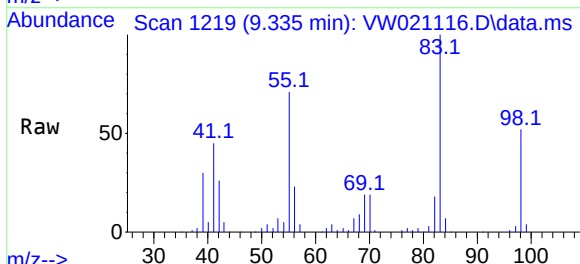
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 65.4  | 47.0  | 87.2  |
| 132 | 102.8 | 65.5  | 121.6 |
| 130 | 102.4 | 69.4  | 128.8 |



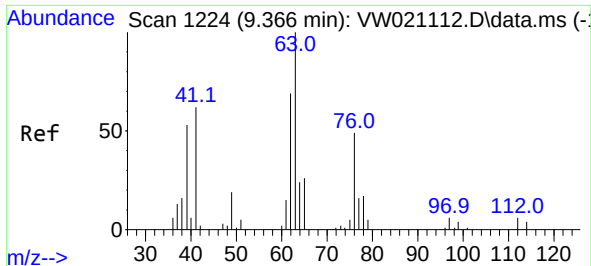
#35  
Methylcyclohexane  
Concen: 25.545 ug/L  
RT: 9.335 min Scan# 1219  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 83 Resp: 45399

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 83  | 100   |       |        |
| 55  | 70.4  | 70.8  | 106.2# |
| 98  | 52.8  | 37.7  | 56.5   |







#37

1,2-Dichloropropane

Concen: 28.538 ug/L

RT: 9.366 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

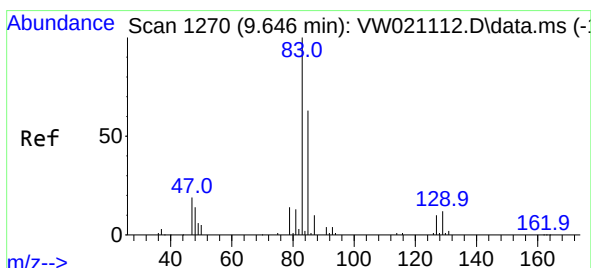
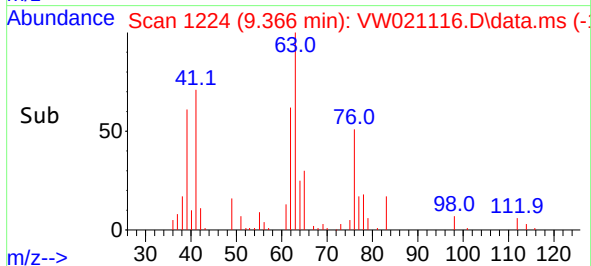
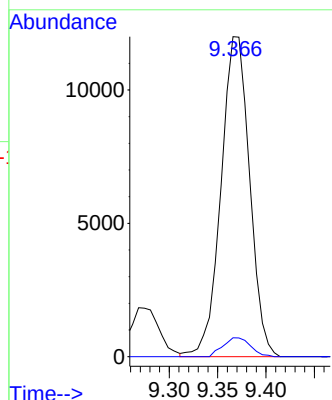
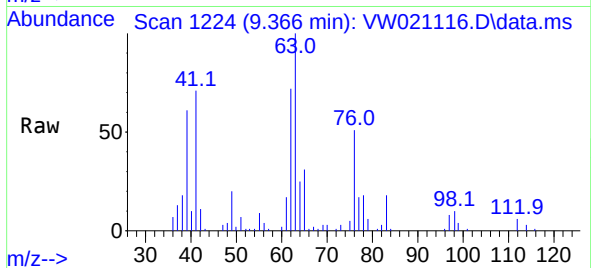
EW9M4MSD

Tgt Ion: 63 Resp: 24685

Ion Ratio Lower Upper

63 100

112 5.7 3.2 4.8#



#38

Bromodichloromethane

Concen: 29.300 ug/L

RT: 9.646 min Scan# 1270

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

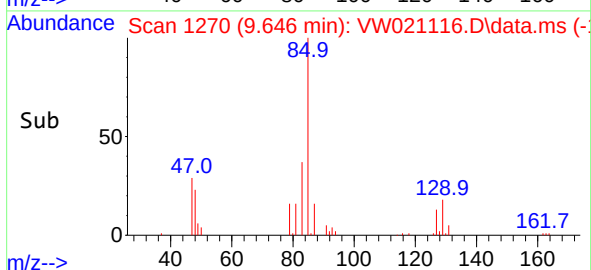
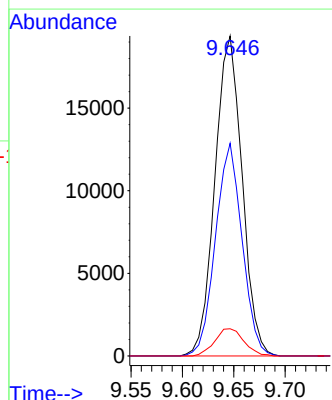
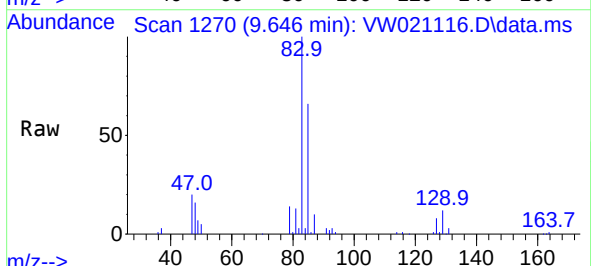
Tgt Ion: 83 Resp: 35628

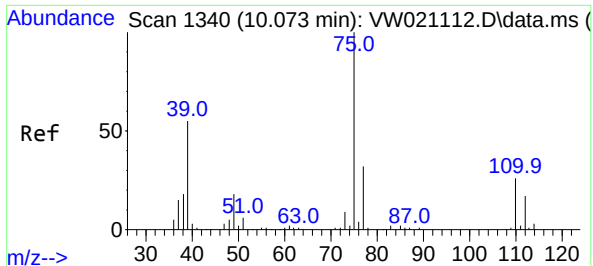
Ion Ratio Lower Upper

83 100

85 66.5 44.1 81.9

127 8.5 6.1 9.1





#39

cis-1,3-Dichloropropene

Concen: 29.935 ug/L

RT: 10.073 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

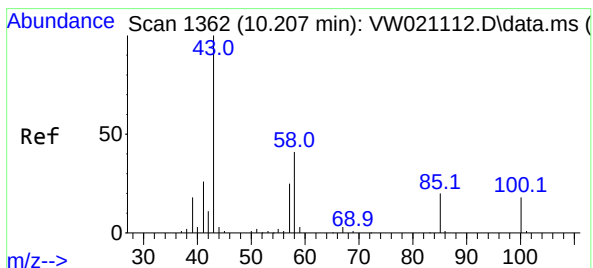
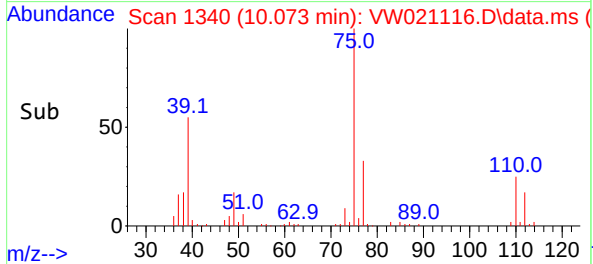
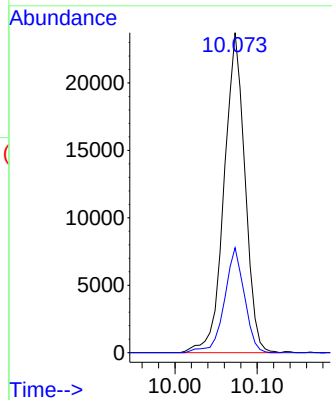
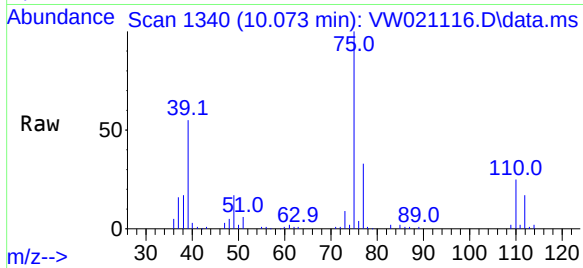
EW9M4MSD

Tgt Ion: 75 Resp: 41883

Ion Ratio Lower Upper

75 100

77 32.8 21.8 40.6



#40

4-Methyl-2-pentanone

Concen: 58.333 ug/L

RT: 10.207 min Scan# 1362

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

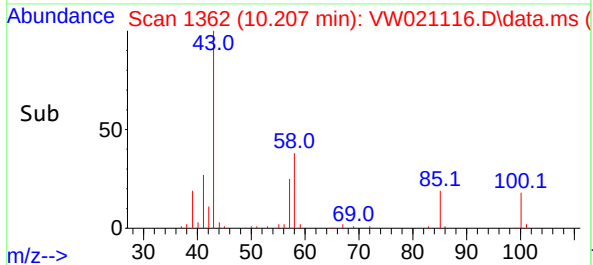
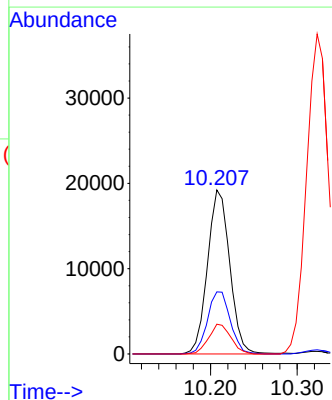
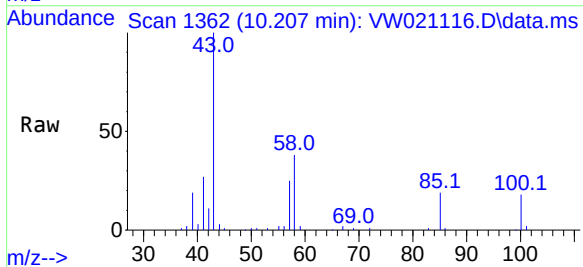
Tgt Ion: 43 Resp: 34374

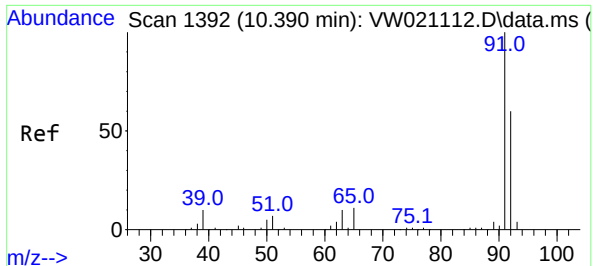
Ion Ratio Lower Upper

43 100

58 38.7 28.8 43.2

100 18.1 10.0 15.0#





#42

Toluene

Concen: 27.858 ug/L

RT: 10.390 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

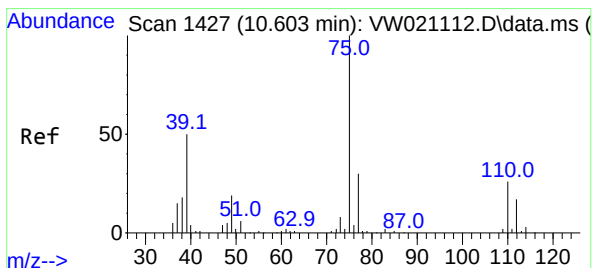
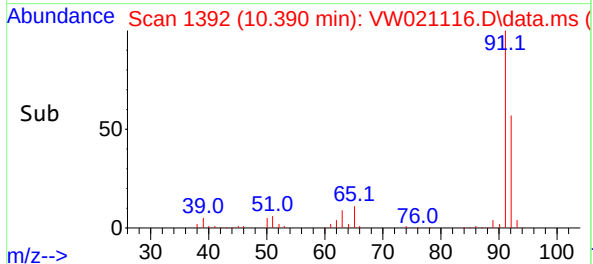
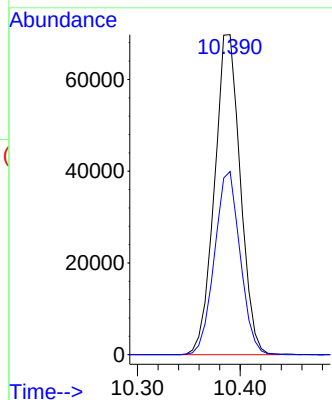
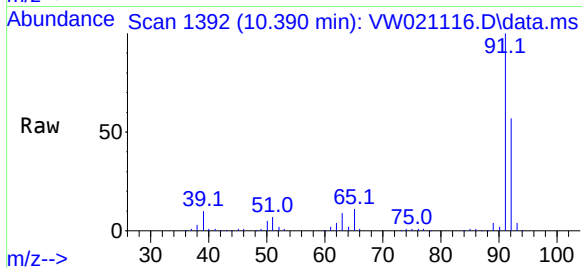
EW9M4MSD

Tgt Ion: 91 Resp: 121777

Ion Ratio Lower Upper

91 100

92 57.2 41.7 77.5



#44

trans-1,3-Dichloropropene

Concen: 29.234 ug/L

RT: 10.603 min Scan# 1427

Delta R.T. -0.000 min

Lab File: VW021116.D

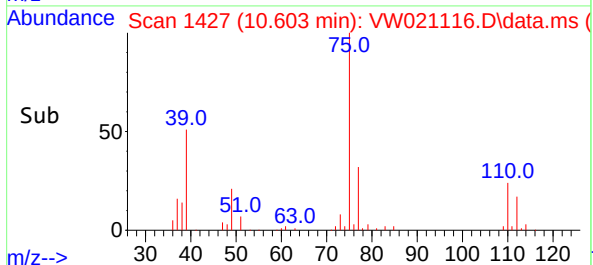
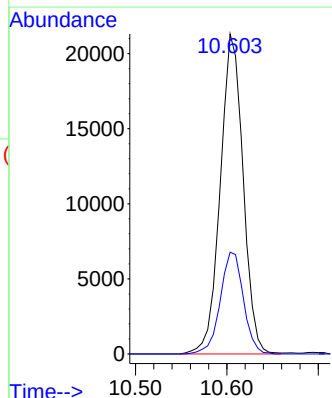
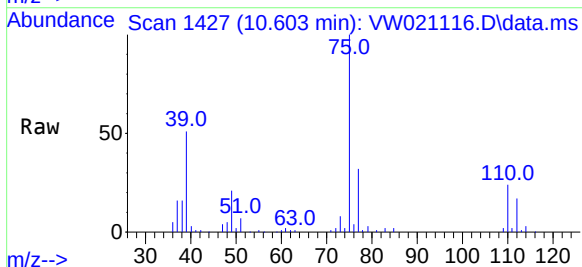
Acq: 04 Dec 2021 14:12

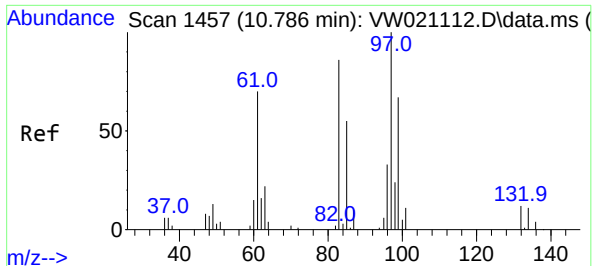
Tgt Ion: 75 Resp: 37006

Ion Ratio Lower Upper

75 100

77 31.8 22.2 41.2





#45

1,1,2-Trichloroethane

Concen: 30.575 ug/L

RT: 10.786 min Scan# 1457

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

EW9M4MSD

Tgt Ion: 97 Resp: 22173

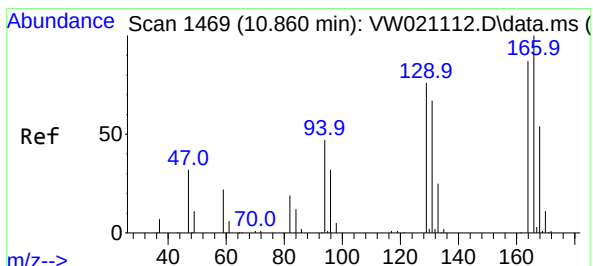
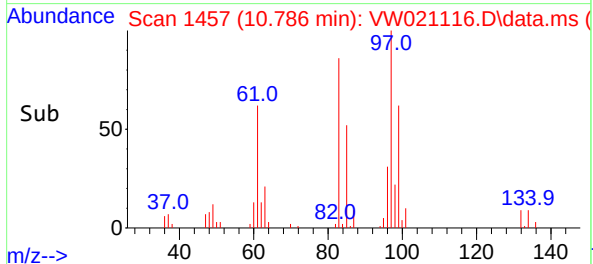
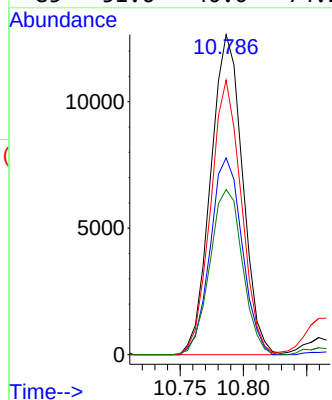
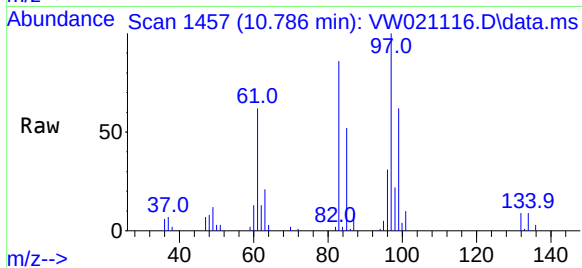
Ion Ratio Lower Upper

97 100

99 61.5 43.0 79.8

83 85.8 62.6 116.3

85 51.6 40.0 74.2



#46

Tetrachloroethene

Concen: 113.893 ug/L

RT: 10.859 min Scan# 1469

Delta R.T. -0.006 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Tgt Ion:164 Resp: 110114

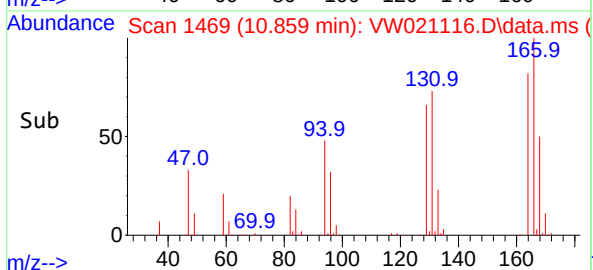
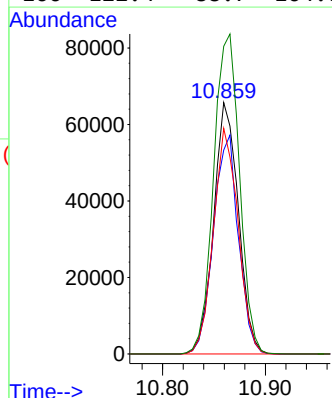
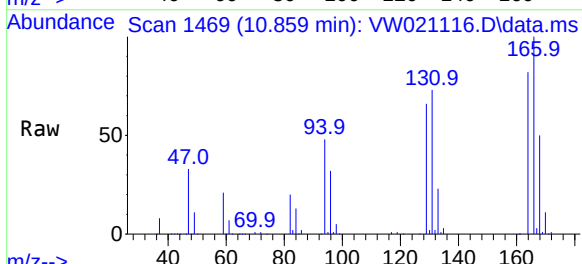
Ion Ratio Lower Upper

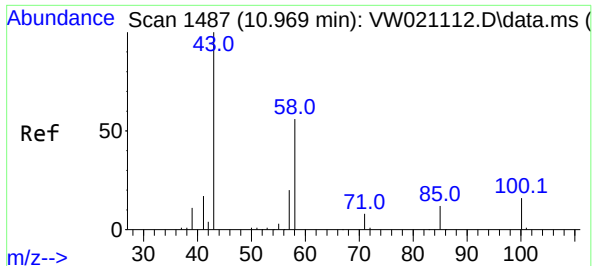
164 100

129 81.1 65.5 121.7

131 89.8 59.7 110.9

166 122.4 88.7 164.7

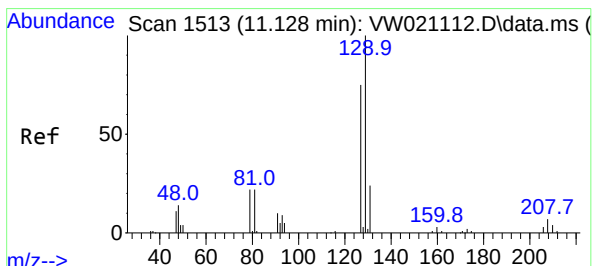
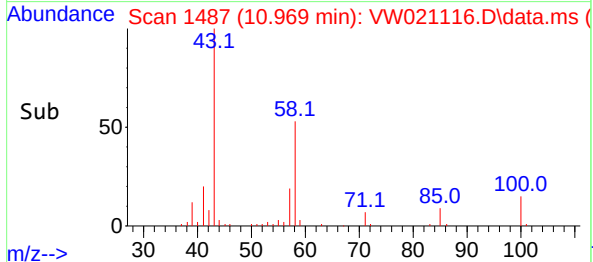
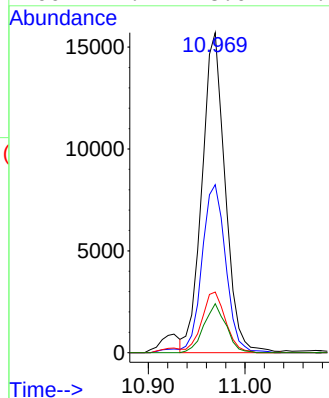
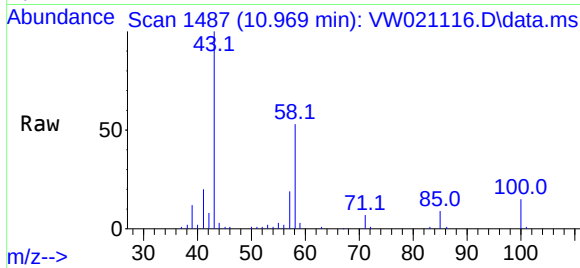




#48  
2-Hexanone  
Concen: 61.592 ug/L  
RT: 10.969 min Scan# 1487  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

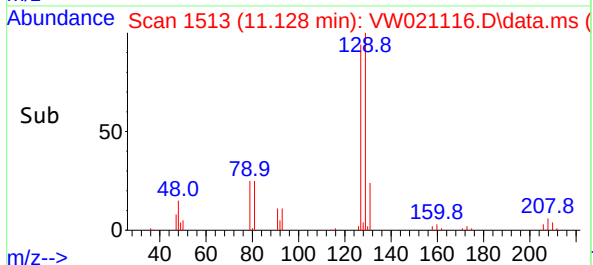
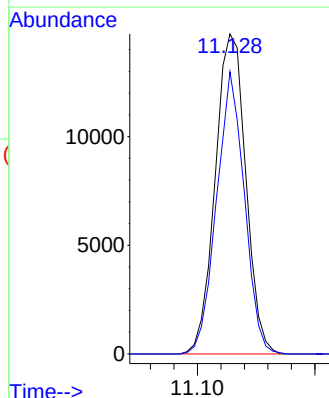
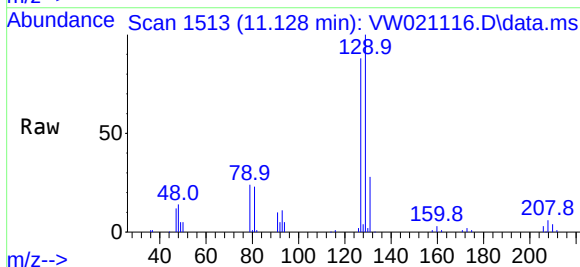
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

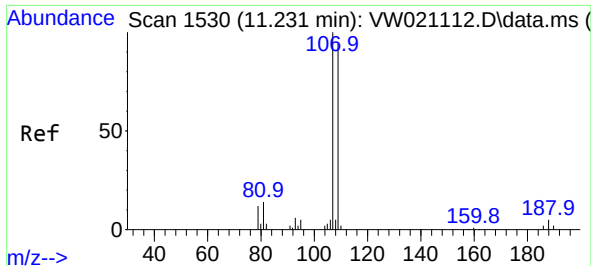
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 26182 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 58 52.3     | 40.2 60.2   |
| 57 19.3     | 14.3 21.5   |
| 100 14.7    | 8.0 12.0#   |



#49  
Dibromochloromethane  
Concen: 29.435 ug/L  
RT: 11.128 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

|             |             |
|-------------|-------------|
| Tgt Ion:129 | Resp: 26679 |
| Ion Ratio   | Lower Upper |
| 129 100     |             |
| 127 88.2    | 55.7 103.5  |





#50

1,2-Dibromoethane

Concen: 30.291 ug/L

RT: 11.237 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

EW9M4MSD

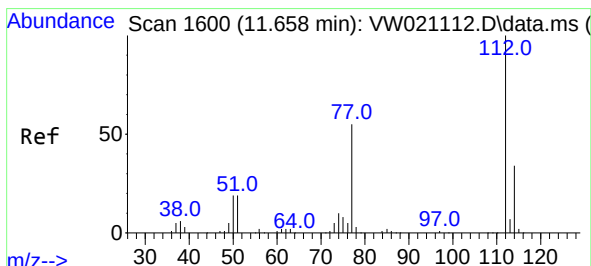
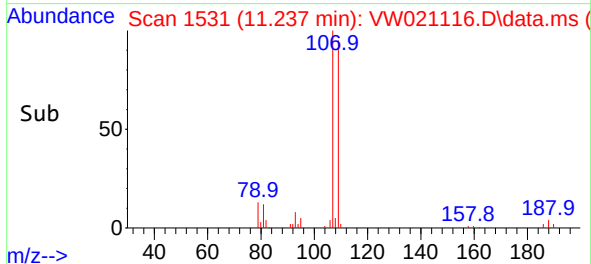
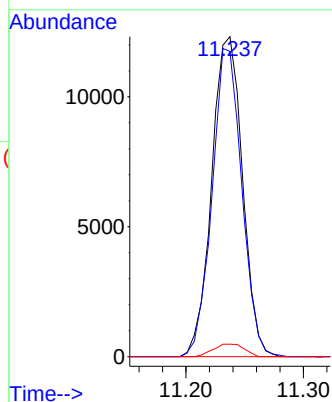
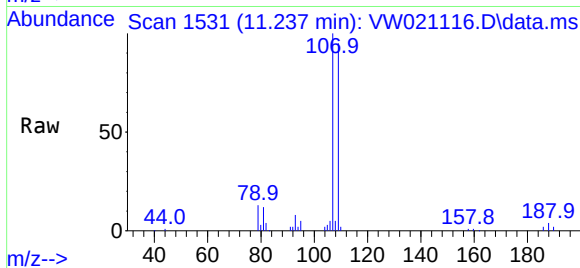
Tgt Ion:107 Resp: 22402

Ion Ratio Lower Upper

107 100

109 95.4 64.1 119.1

188 3.9 2.6 3.8#



#51

Chlorobenzene

Concen: 27.035 ug/L

RT: 11.658 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

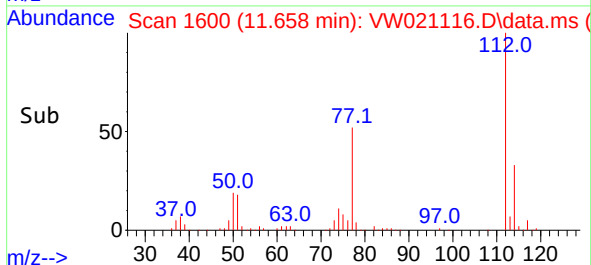
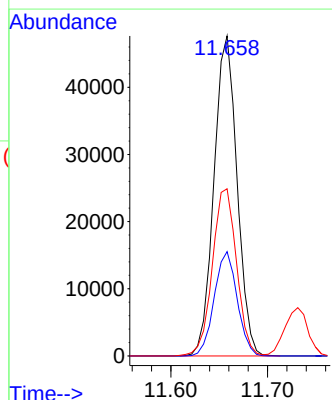
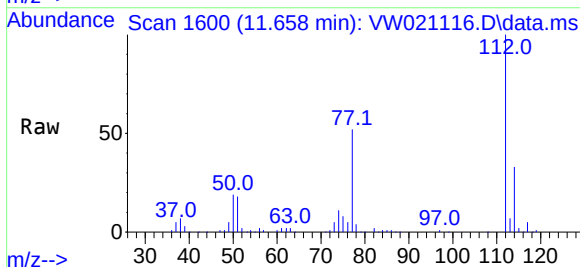
Tgt Ion:112 Resp: 78964

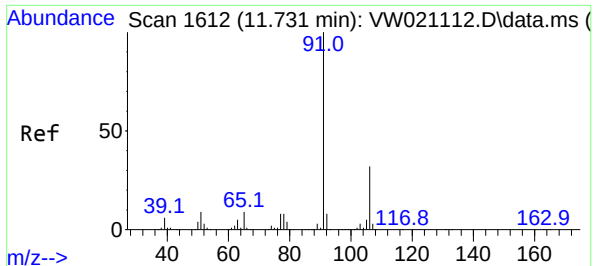
Ion Ratio Lower Upper

112 100

114 32.6 22.4 41.6

77 52.2 50.2 75.4

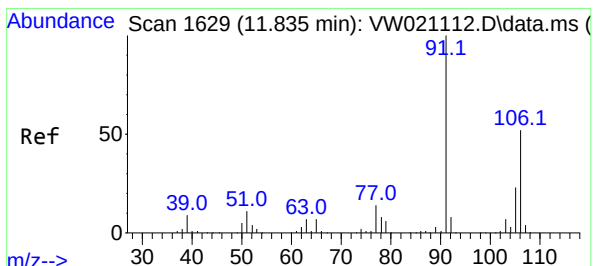
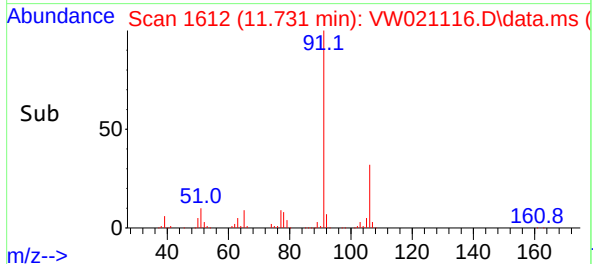
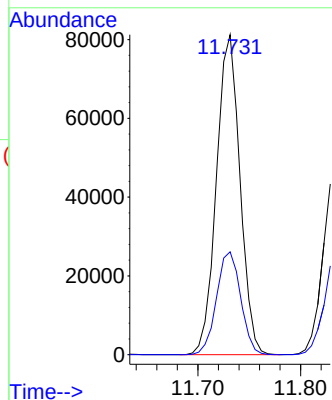
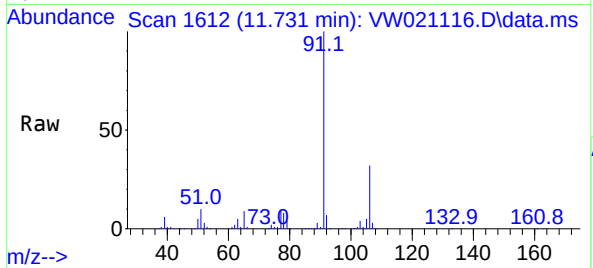




#52  
Ethylbenzene  
Concen: 26.234 ug/L  
RT: 11.731 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

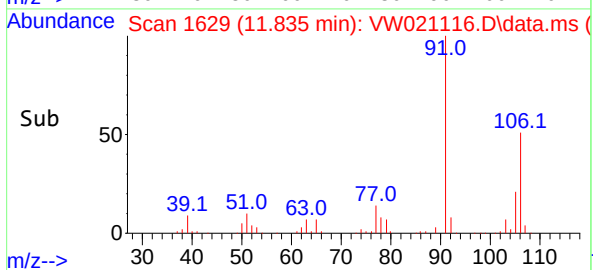
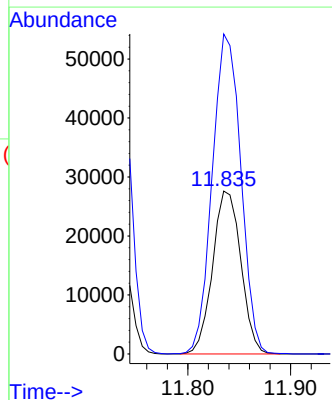
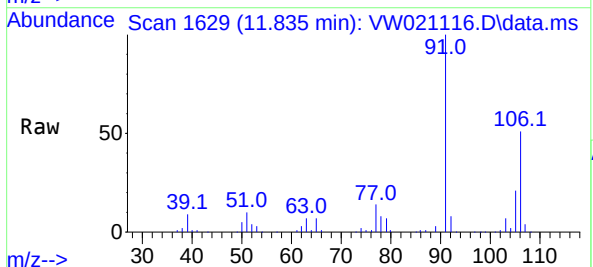
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

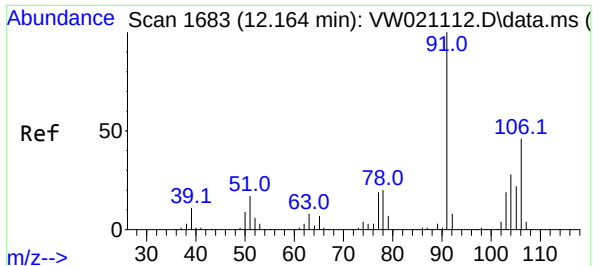
Tgt Ion: 91 Resp: 129097  
Ion Ratio Lower Upper  
91 100  
106 32.1 21.5 39.9



#53  
m,p-Xylene  
Concen: 25.879 ug/L  
RT: 11.835 min Scan# 1629  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion:106 Resp: 52683  
Ion Ratio Lower Upper  
106 100  
91 196.4 149.9 278.3

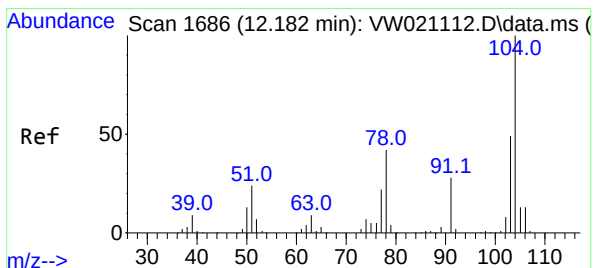
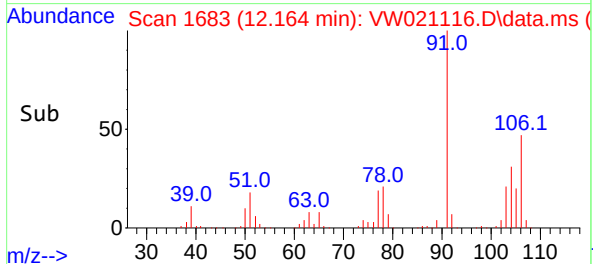
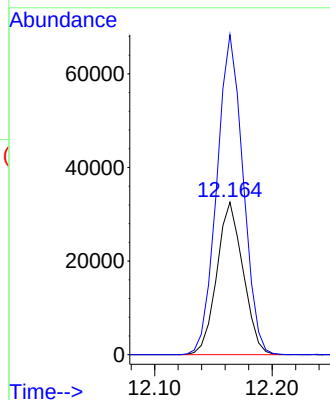
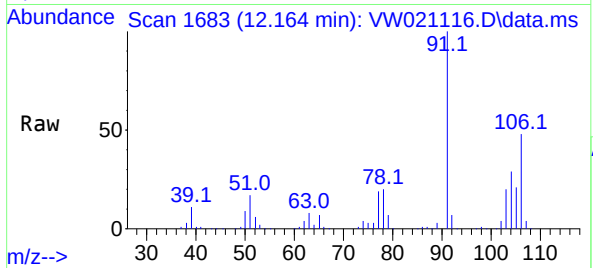




#54  
o-Xylene  
Concen: 26.346 ug/L  
RT: 12.164 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

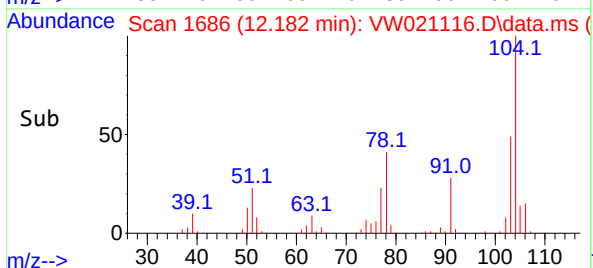
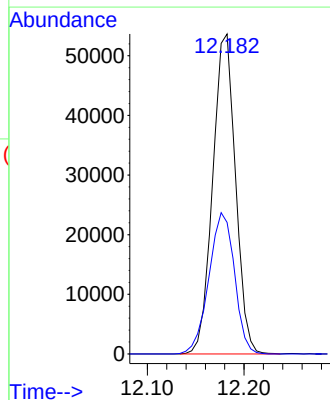
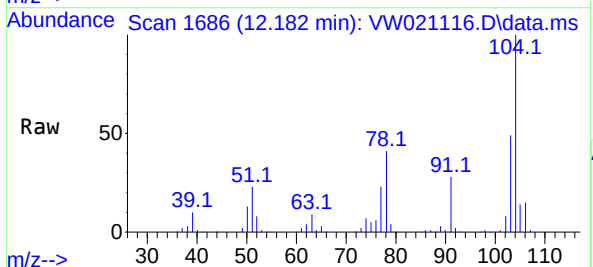
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

Tgt Ion:106 Resp: 50568  
Ion Ratio Lower Upper  
106 100  
91 209.8 153.6 285.3

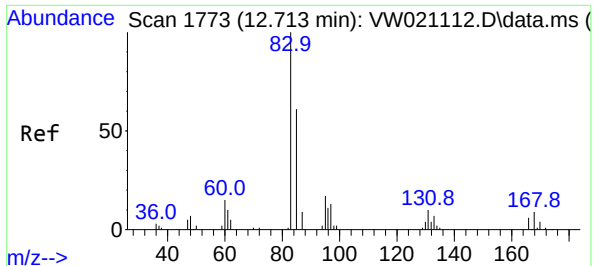


#55  
Styrene  
Concen: 26.869 ug/L  
RT: 12.182 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion:104 Resp: 87866  
Ion Ratio Lower Upper  
104 100  
78 41.1 34.4 64.0



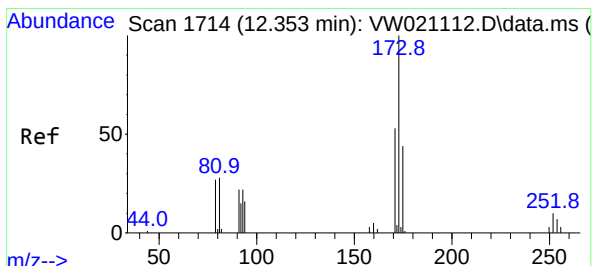
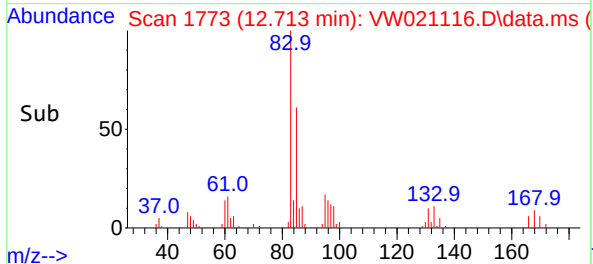
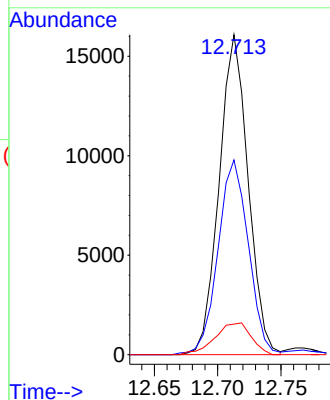
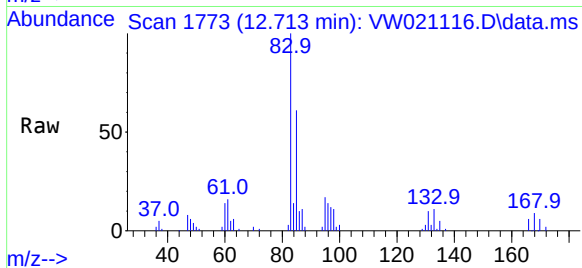




#57  
1,1,2,2-Tetrachloroethane  
Concen: 29.367 ug/L  
RT: 12.713 min Scan# 1773  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

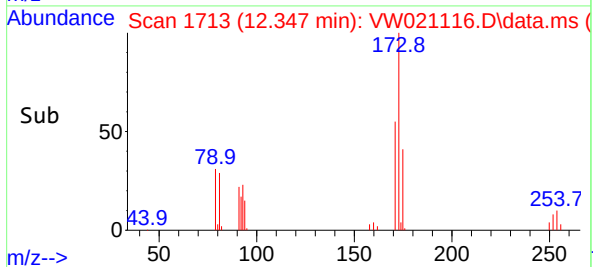
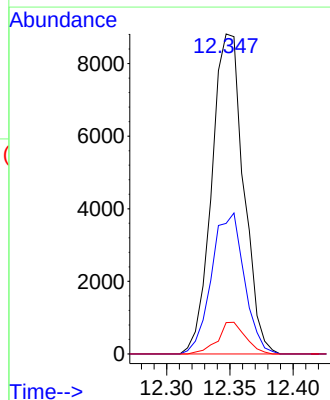
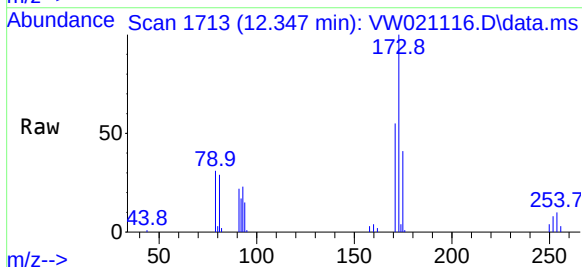
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

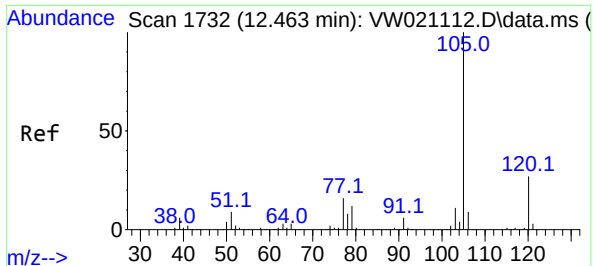
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 25616 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 60.9  | 44.0  | 81.6  |
| 131       | 9.6   | 6.9   | 10.3  |



#59  
Bromoform  
Concen: 28.152 ug/L  
RT: 12.347 min Scan# 1713  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 15435 |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 45.2  | 39.6  | 59.4  |
| 254       | 8.6   | 7.4   | 11.0  |

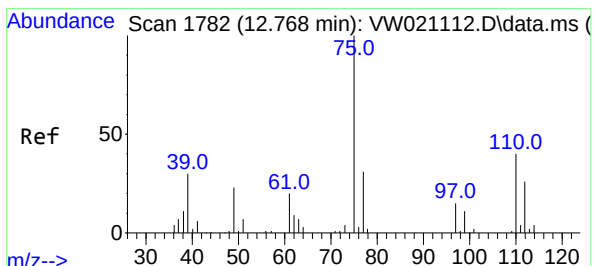
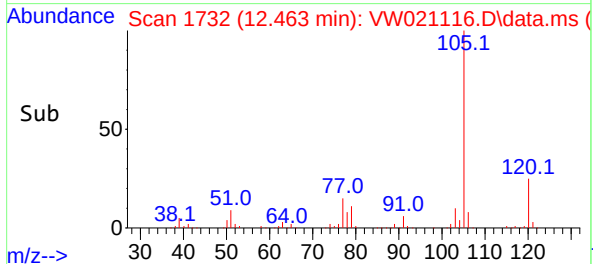
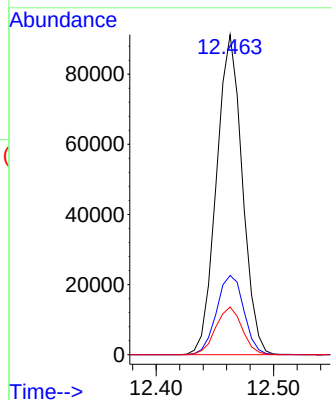
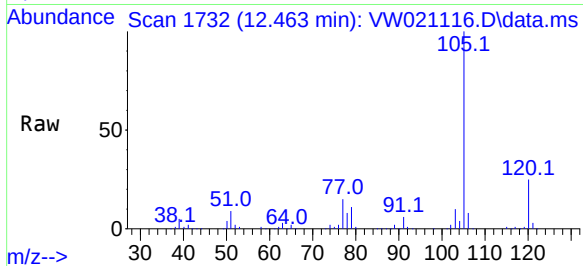




#60  
Isopropylbenzene  
Concen: 26.146 ug/L  
RT: 12.463 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

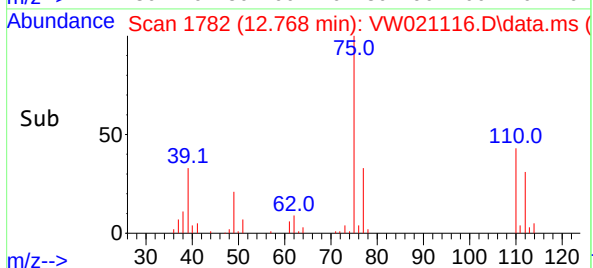
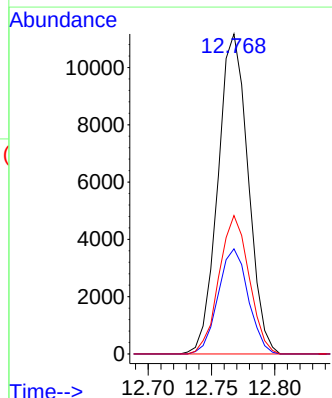
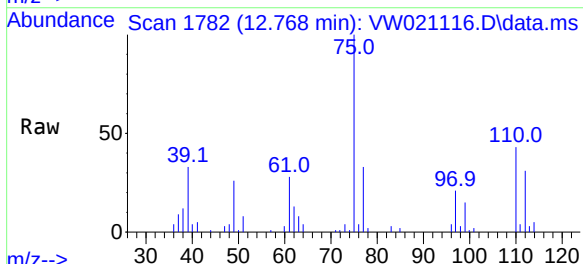
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

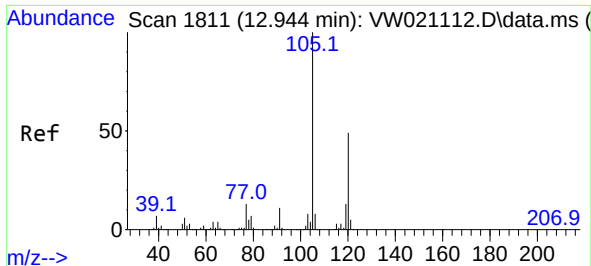
Tgt Ion:105 Resp: 139703  
Ion Ratio Lower Upper  
105 100  
120 26.2 20.1 30.1  
77 15.2 13.8 20.8



#61  
1,2,3-Trichloropropane  
Concen: 28.777 ug/L  
RT: 12.768 min Scan# 1782  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion: 75 Resp: 18533  
Ion Ratio Lower Upper  
75 100  
77 32.7 25.8 38.8  
110 43.1 29.0 43.4

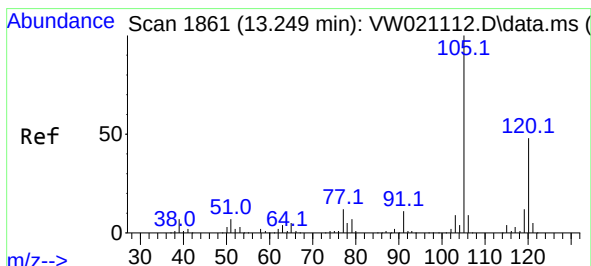
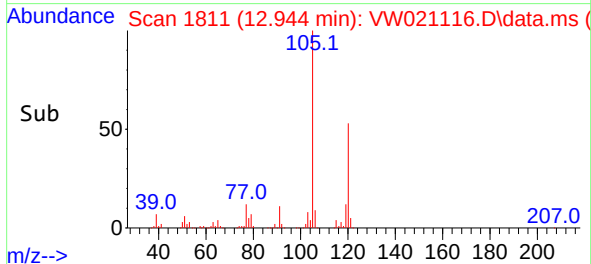
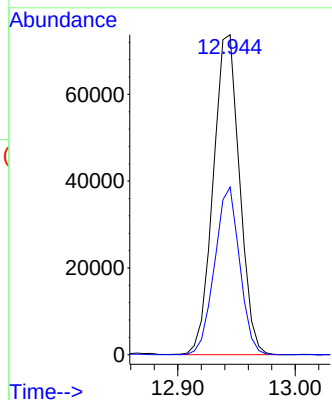
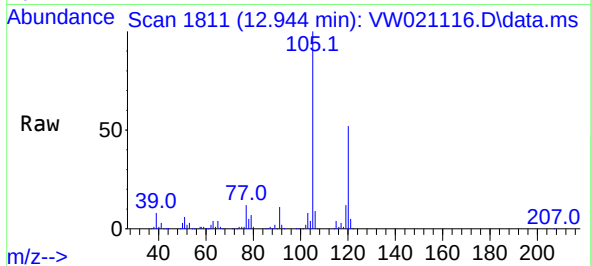




#62  
1,3,5-Trimethylbenzene  
Concen: 25.698 ug/L  
RT: 12.944 min Scan# 1811  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

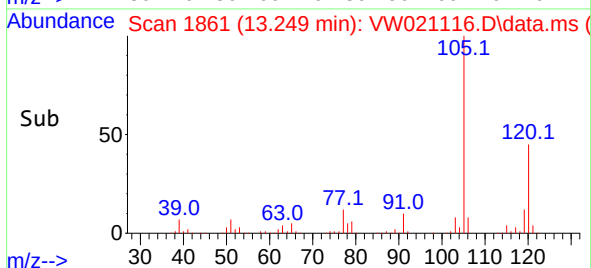
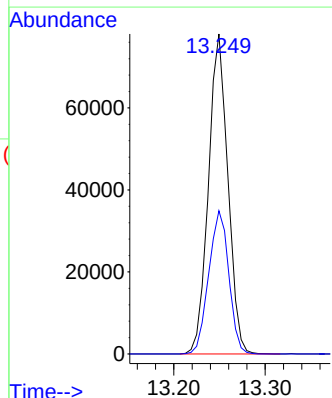
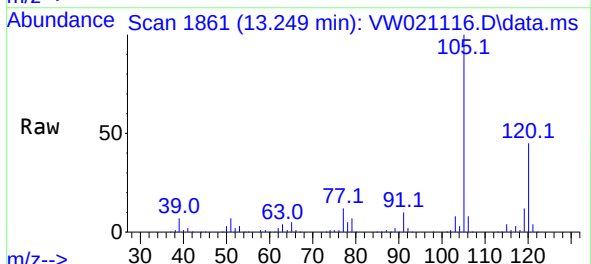
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

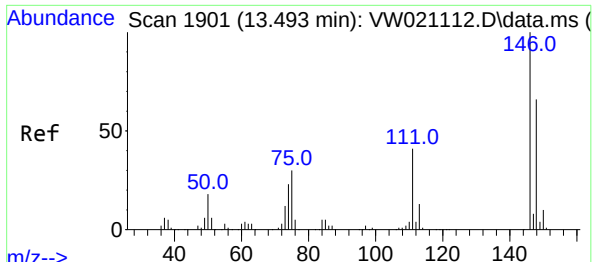
Tgt Ion:105 Resp: 114985  
Ion Ratio Lower Upper  
105 100  
120 49.7 37.4 56.2



#63  
1,2,4-Trimethylbenzene  
Concen: 25.558 ug/L  
RT: 13.249 min Scan# 1861  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion:105 Resp: 115016  
Ion Ratio Lower Upper  
105 100  
120 46.2 35.0 52.6

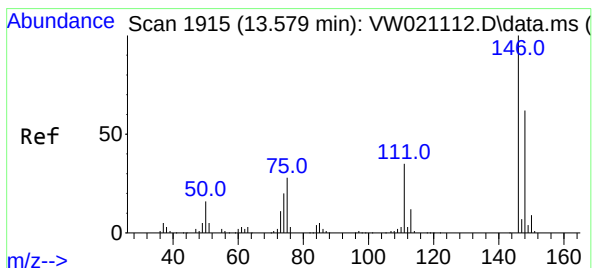
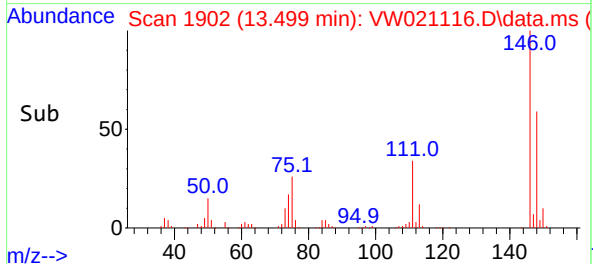
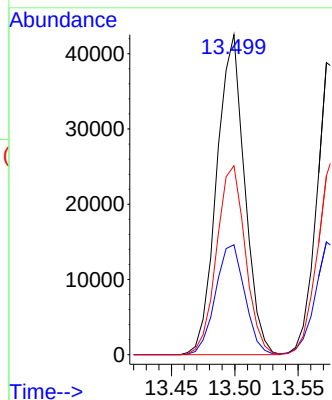
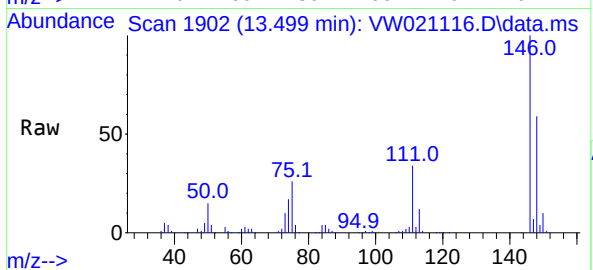




#64  
1,3-Dichlorobenzene  
Concen: 25.930 ug/L  
RT: 13.499 min Scan# 1901  
Delta R.T. -0.000 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

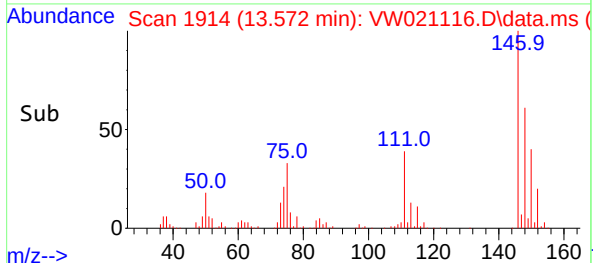
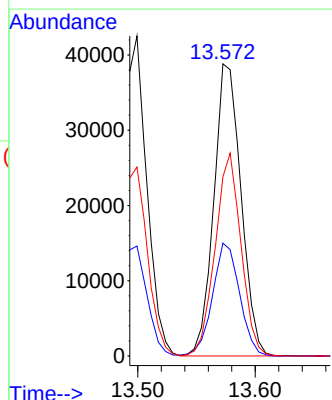
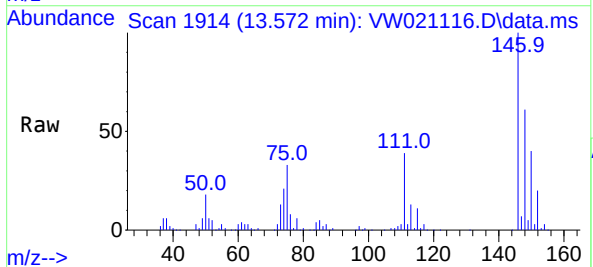
Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

Tgt Ion:146 Resp: 65235  
Ion Ratio Lower Upper  
146 100  
111 34.4 29.8 55.3  
148 59.1 46.2 85.8

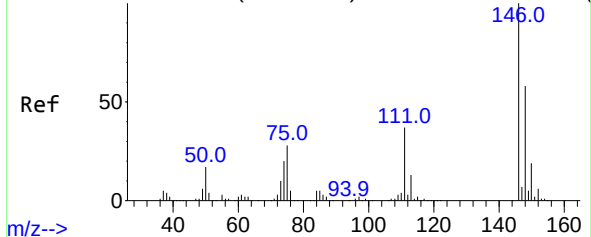


#65  
1,4-Dichlorobenzene  
Concen: 24.599 ug/L  
RT: 13.572 min Scan# 1914  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

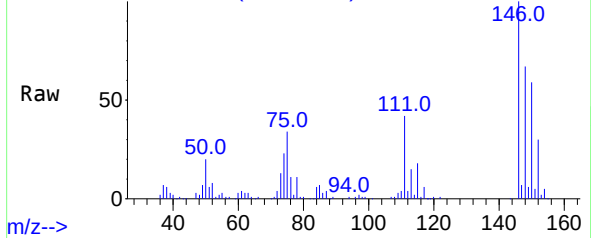
Tgt Ion:146 Resp: 62548  
Ion Ratio Lower Upper  
146 100  
111 38.6 29.0 53.9  
148 61.3 46.9 87.1



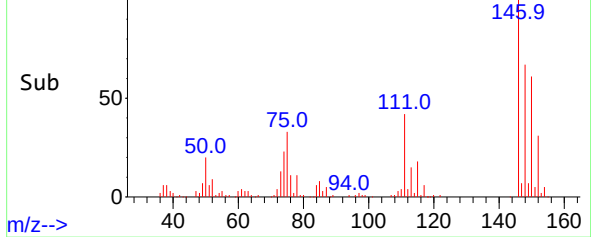
Abundance Scan 1963 (13.871 min): VW021112.D\data.ms (



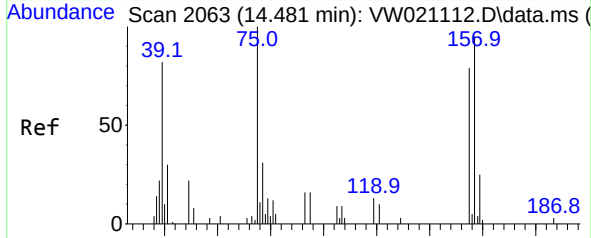
m/z--> Abundance Scan 1962 (13.865 min): VW021116.D\data.ms



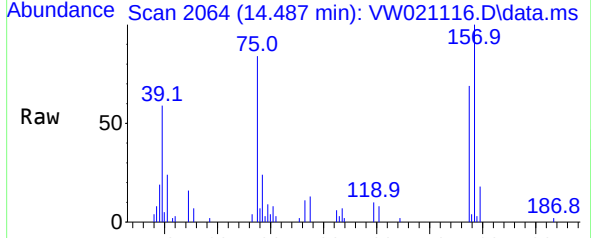
m/z--> Abundance Scan 1962 (13.865 min): VW021116.D\data.ms (



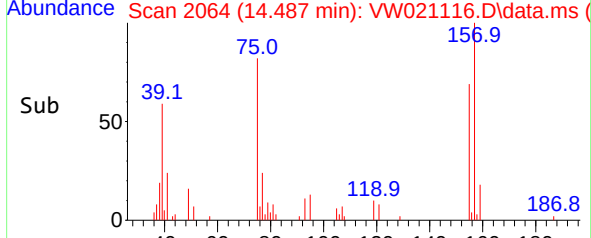
m/z--> Abundance Scan 2063 (14.481 min): VW021112.D\data.ms (



m/z--> Abundance Scan 2064 (14.487 min): VW021116.D\data.ms



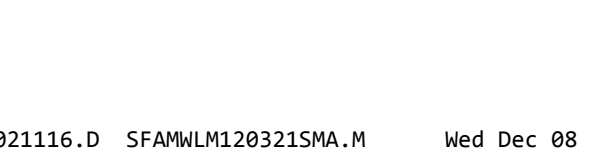
m/z--> Abundance Scan 2064 (14.487 min): VW021116.D\data.ms (



m/z--> Abundance Scan 2064 (14.487 min): VW021116.D\data.ms (

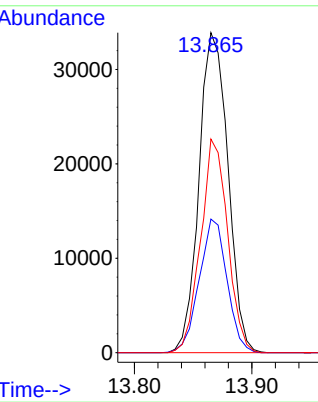


m/z--> Abundance Scan 2064 (14.487 min): VW021116.D\data.ms (



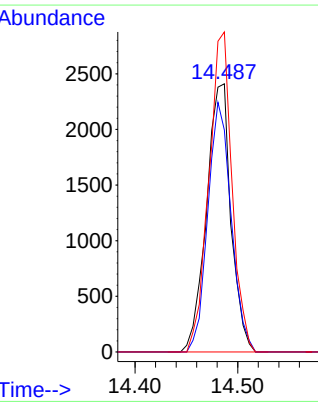
#67  
1,2-Dichlorobenzene  
Concen: 25.909 ug/L  
RT: 13.865 min Scan# 1962  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

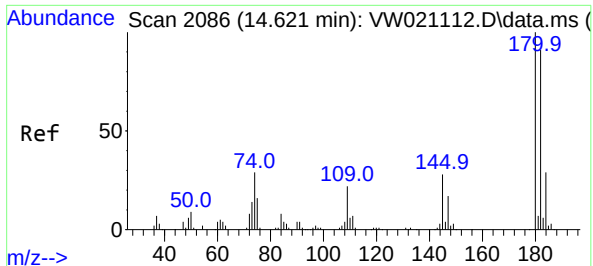
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 58038 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 41.8  | 33.1  | 49.7  |
| 148       | 66.8  | 47.4  | 71.2  |



#68  
1,2-Dibromo-3-chloropropane  
Concen: 27.422 ug/L  
RT: 14.487 min Scan# 2064  
Delta R.T. 0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 75    | Resp: | 3988   |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 155       | 82.7  | 54.2  | 81.2#  |
| 157       | 119.3 | 69.4  | 104.2# |





#69

1,3,5-Trichlorobenzene

Concen: 24.492 ug/L

RT: 14.627 min Scan# 2086

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

Instrument :

MSVOA\_W

ClientSampleId :

EW9M4MSD

Tgt Ion:180 Resp: 45286

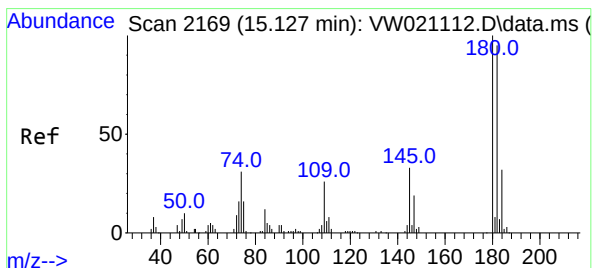
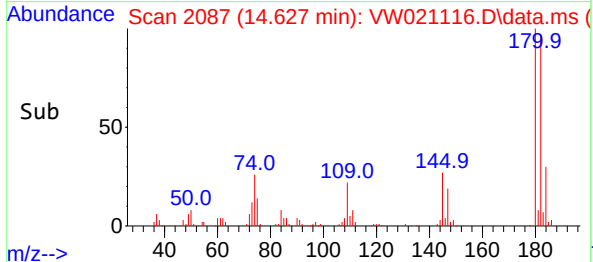
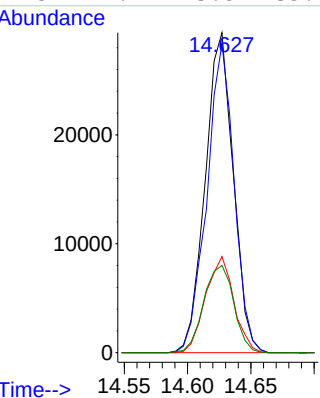
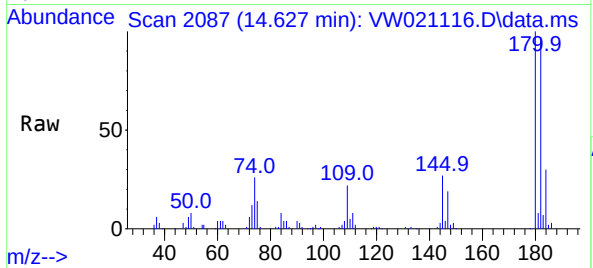
Ion Ratio Lower Upper

180 100

182 93.6 75.4 113.0

184 30.2 23.8 35.8

145 29.2 23.8 35.8



#70

1,2,4-trichlorobenzene

Concen: 23.700 ug/L

RT: 15.127 min Scan# 2169

Delta R.T. -0.000 min

Lab File: VW021116.D

Acq: 04 Dec 2021 14:12

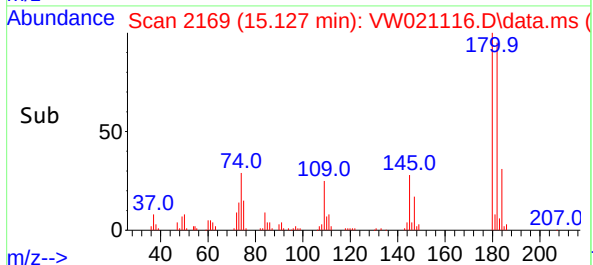
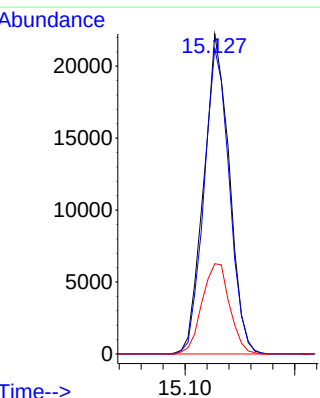
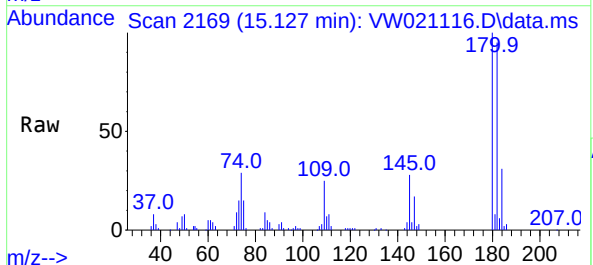
Tgt Ion:180 Resp: 36009

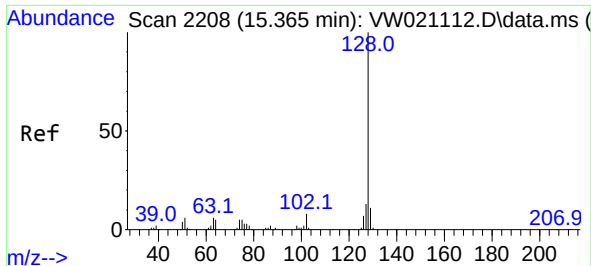
Ion Ratio Lower Upper

180 100

182 94.9 79.0 118.6

145 30.4 26.0 39.0



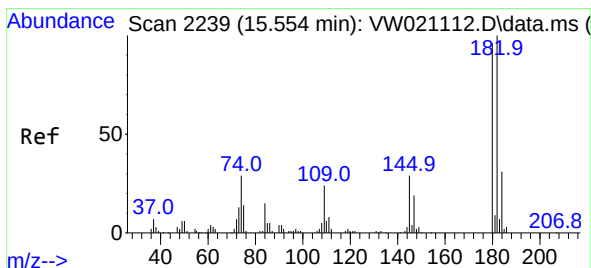
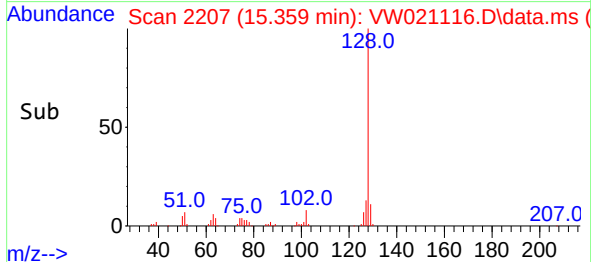
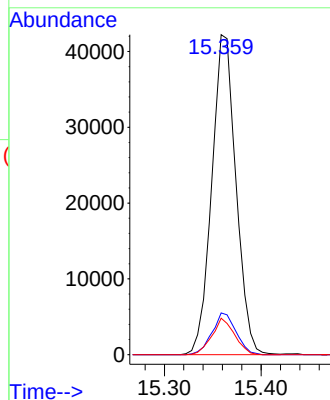
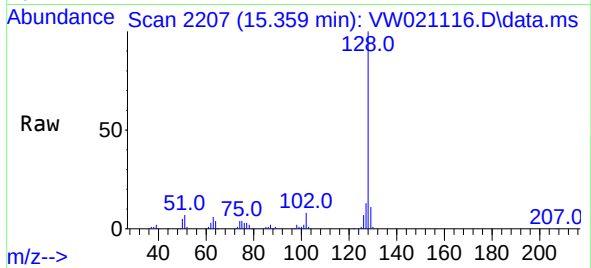


#71  
Naphthalene  
Concen: 25.961 ug/L  
RT: 15.359 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Instrument :  
MSVOA\_W  
ClientSampleId :  
EW9M4MSD

Tgt Ion:128 Resp: 73327

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.0  | 10.7  | 16.1  |
| 129 | 10.7  | 8.6   | 12.8  |



#72  
1,2,3-Trichlorobenzene  
Concen: 23.175 ug/L  
RT: 15.548 min Scan# 2238  
Delta R.T. -0.006 min  
Lab File: VW021116.D  
Acq: 04 Dec 2021 14:12

Tgt Ion:180 Resp: 30730

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 100.8 | 76.6  | 114.8 |
| 145 | 32.2  | 27.4  | 41.0  |

