

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052223\  
 Data File : VU054255.D  
 Acq On : 22 May 2023 19:34  
 Operator : JC/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005172

Quant Time: May 23 04:03:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR051823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue May 23 02:58:02 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.244  | 114   | 179124   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414  | 117   | 171903   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806 | 152   | 94027    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597  | 65    | 39134    | 4.052    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 81.000%  |
| 7) Chloroethane-d5            | 1.913  | 69    | 31827    | 4.405    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 88.200%  |
| 11) 1,1-Dichloroethene-d2     | 2.565  | 65    | 17431    | 3.996    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 80.000%  |
| 20) 2-Butanone-d5             | 4.633  | 46    | 88398    | 51.329   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 102.660% |
| 24) Chloroform-d              | 5.057  | 84    | 82809    | 4.561    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 91.200%  |
| 26) 1,2-Dichloroethane-d4     | 5.697  | 65    | 36711    | 4.395    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 87.800%  |
| 32) Benzene-d6                | 5.723  | 84    | 153443   | 4.383    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.600%  |
| 36) 1,2-Dichloropropane-d6    | 6.684  | 67    | 46752    | 4.621    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 92.400%  |
| 41) Toluene-d8                | 7.893  | 98    | 142300   | 4.305    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 86.000%  |
| 43) trans-1,3-Dichloroprop... | 8.176  | 79    | 18069    | 4.421    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 88.400%  |
| 46) 2-Hexanone-d5             | 8.629  | 63    | 63903    | 52.515   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 105.040% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751 | 84    | 35877    | 4.947    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 99.000%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189 | 152   | 53420    | 4.656    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 93.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385  | 85    | 67957    | 5.018    | ug/L   | 100      |
| 3) Chloromethane              | 1.517  | 50    | 67918    | 5.410    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604  | 62    | 73388    | 5.503    | ug/L   | 99       |
| 6) Bromomethane               | 1.858  | 94    | 40574    | 5.015    | ug/L   | 99       |
| 8) Chloroethane               | 1.932  | 64    | 45565    | 5.394    | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.134  | 101   | 112697   | 5.319    | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578  | 101   | 67680    | 5.510    | ug/L   | 98       |
| 12) 1,1-Dichloroethene        | 2.575  | 96    | 58769    | 5.360    | ug/L   | 96       |
| 13) Acetone                   | 2.646  | 43    | 98068    | 41.858   | ug/L   | 98       |
| 14) Carbon disulfide          | 2.790  | 76    | 137111   | 4.978    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.954  | 43    | 24626    | 5.863    | ug/L   | 99       |
| 16) Methylene chloride        | 3.041  | 84    | 115981   | 8.081    | ug/L   | 98       |
| 17) Methyl tert-butyl Ether   | 3.359  | 73    | 147548   | 5.346    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 3.350  | 96    | 60132    | 5.392    | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.864  | 63    | 124769   | 5.588    | ug/L   | 96       |
| 21) 2-Butanone                | 4.707  | 43    | 158363   | 51.030   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.662  | 96    | 71141    | 5.456    | ug/L   | 98       |
| 23) Bromochloromethane        | 4.967  | 128   | 31375    | 5.508    | ug/L   | 97       |
| 25) Chloroform                | 5.083  | 83    | 132418   | 5.467    | ug/L   | 97       |

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 ALS Vial : 26 Sample Multiplier: 1

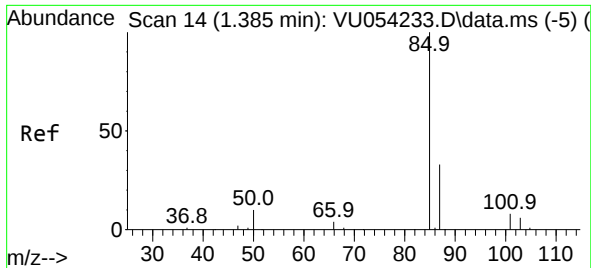
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005172

Quant Time: May 23 04:03:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR051823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue May 23 02:58:02 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 73330    | 5.266  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 5.311  | 97   | 113457   | 5.272  | ug/L   | 99       |
| 30) Cyclohexane               | 5.382  | 56   | 91977    | 5.251  | ug/L   | 95       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 96243    | 5.157  | ug/L   | 97       |
| 33) Benzene                   | 5.768  | 78   | 262303   | 5.391  | ug/L   | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 71890    | 5.494  | ug/L   | 97       |
| 35) Methylcyclohexane         | 6.758  | 83   | 93260    | 4.874  | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 6.784  | 63   | 70655    | 5.530  | ug/L   | 98       |
| 38) Bromodichloromethane      | 7.102  | 83   | 88280    | 5.457  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 7.600  | 75   | 99624    | 5.234  | ug/L   | 100      |
| 40) 4-Methyl-2-pentanone      | 7.787  | 43   | 371330   | 57.099 | ug/L   | 100      |
| 42) Toluene                   | 7.964  | 91   | 276021   | 5.369  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 83268    | 5.330  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 8.395  | 97   | 49494    | 5.376  | ug/L   | 95       |
| 47) Tetrachloroethene         | 8.549  | 164  | 54709    | 5.088  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.681  | 43   | 271286   | 55.173 | ug/L   | 98       |
| 49) Dibromochloromethane      | 8.803  | 129  | 56382    | 5.486  | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 48422    | 5.723  | ug/L # | 98       |
| 51) Chlorobenzene             | 9.443  | 112  | 179913   | 5.176  | ug/L   | 97       |
| 52) Ethylbenzene              | 9.565  | 91   | 309687   | 5.405  | ug/L   | 99       |
| 53) m,p-Xylene                | 9.690  | 106  | 118284   | 5.436  | ug/L   | 96       |
| 54) o-Xylene                  | 10.095 | 106  | 114813   | 5.342  | ug/L   | 99       |
| 55) Styrene                   | 10.108 | 104  | 198521   | 5.649  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 63580    | 5.815  | ug/L   | 100      |
| 59) Bromoform                 | 10.285 | 173  | 32638    | 5.397  | ug/L   | 97       |
| 60) Isopropylbenzene          | 10.481 | 105  | 312132   | 5.440  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 10.816 | 75   | 42150    | 5.529  | ug/L   | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.083 | 105  | 249868   | 5.335  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 258217   | 5.524  | ug/L   | 98       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 155897   | 5.444  | ug/L   | 99       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 152464   | 5.359  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 143029   | 5.443  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.989 | 75   | 8972     | 5.505  | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 115271   | 5.395  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 91338    | 5.163  | ug/L   | 99       |
| 71) Naphthalene               | 14.082 | 128  | 136260   | 5.325  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.324 | 180  | 82927    | 5.539  | ug/L   | 99       |

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

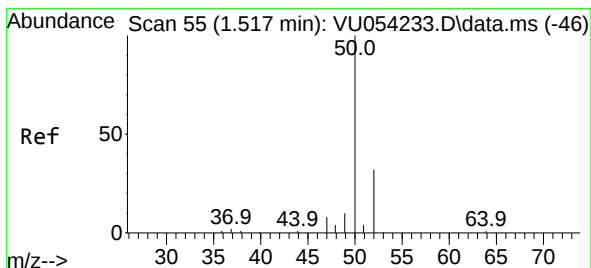
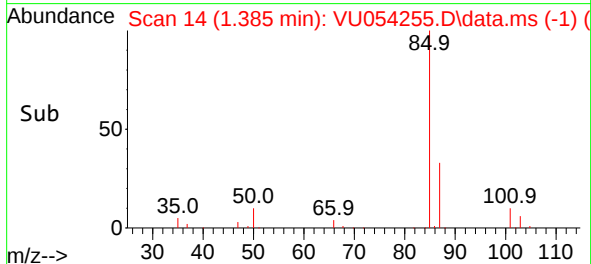
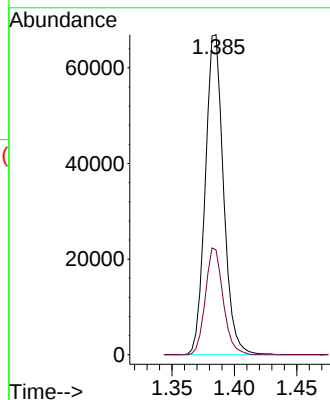
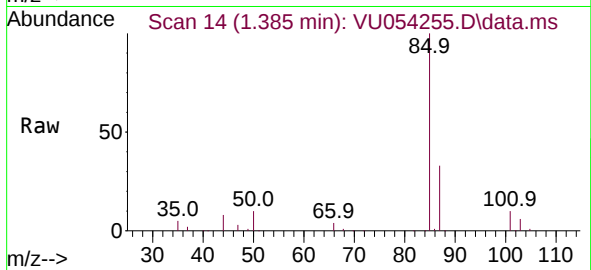




#2  
Dichlorodifluoromethane  
Concen: 5.018 ug/L  
RT: 1.385 min Scan# 14  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

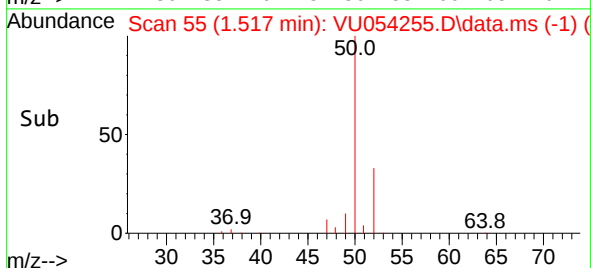
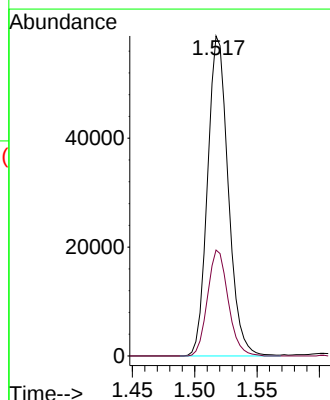
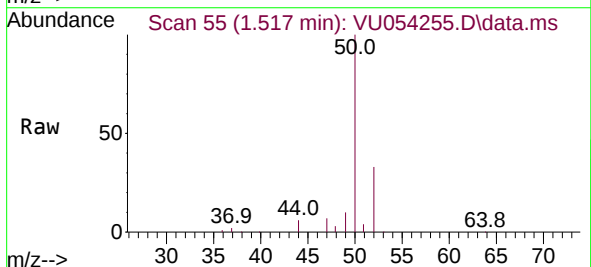
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

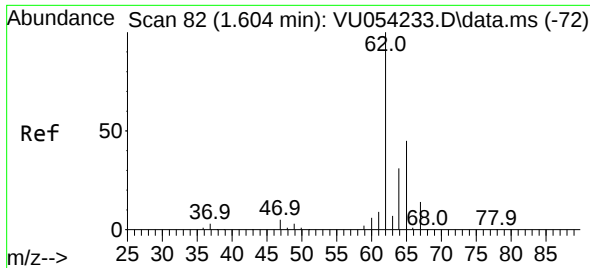
Tgt Ion: 85 Resp: 67957  
Ion Ratio Lower Upper  
85 100  
87 32.5 26.1 39.1



#3  
Chloromethane  
Concen: 5.410 ug/L  
RT: 1.517 min Scan# 55  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion: 50 Resp: 67918  
Ion Ratio Lower Upper  
50 100  
52 33.1 23.7 44.1

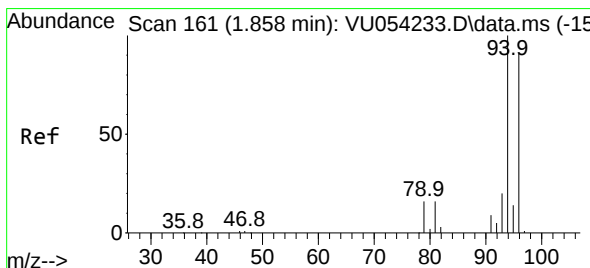
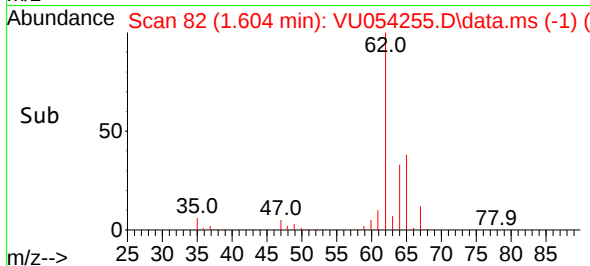
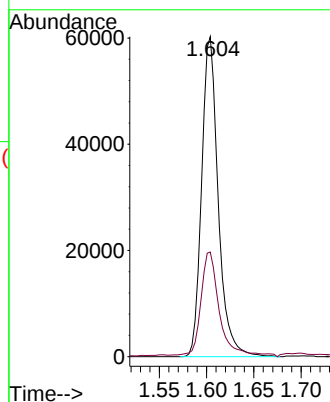
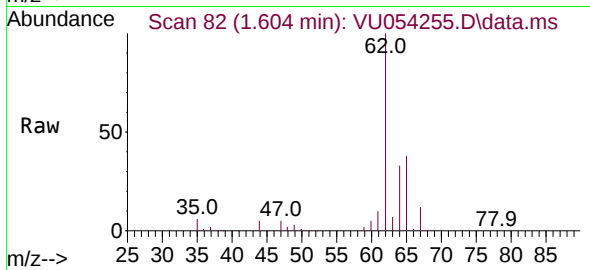




#5  
 Vinyl chloride  
 Concen: 5.503 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

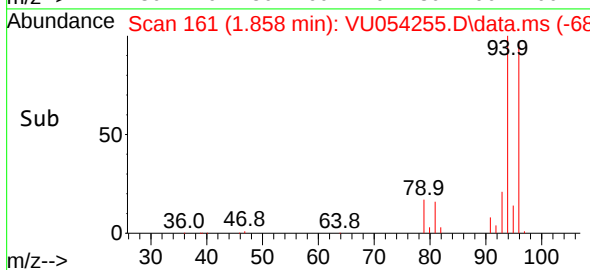
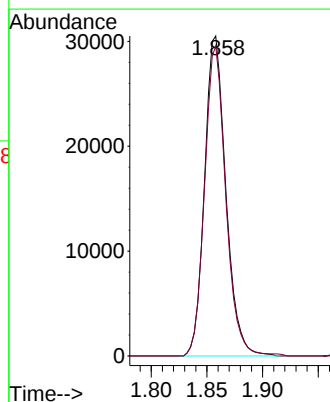
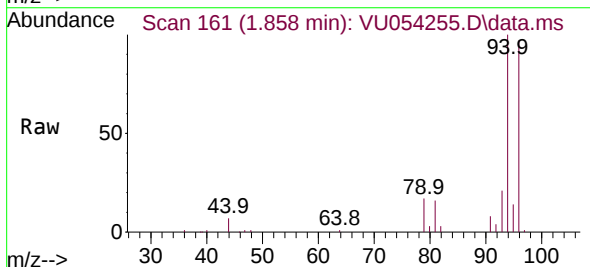
Instrument :  
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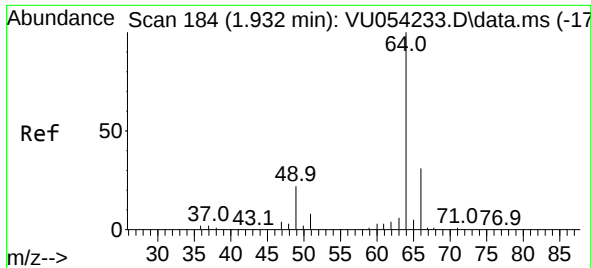
Tgt Ion: 62 Resp: 73388  
 Ion Ratio Lower Upper  
 62 100  
 64 32.7 22.4 41.6



#6  
 Bromomethane  
 Concen: 5.015 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

Tgt Ion: 94 Resp: 40574  
 Ion Ratio Lower Upper  
 94 100  
 96 96.9 68.7 127.5

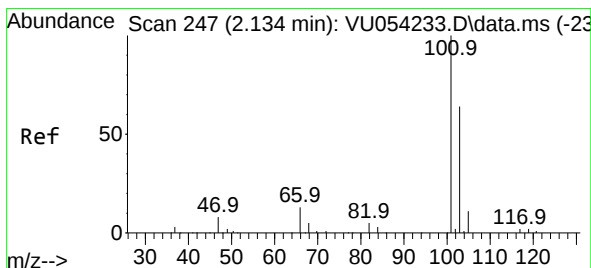
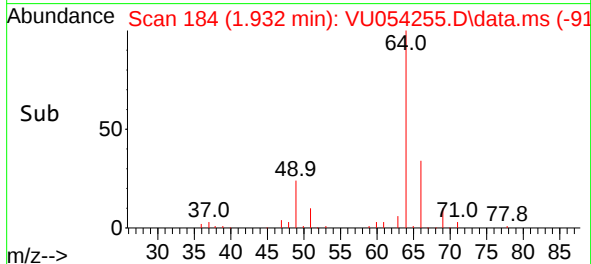
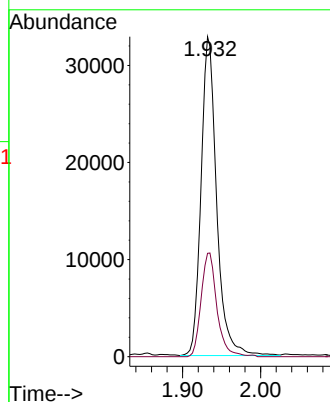
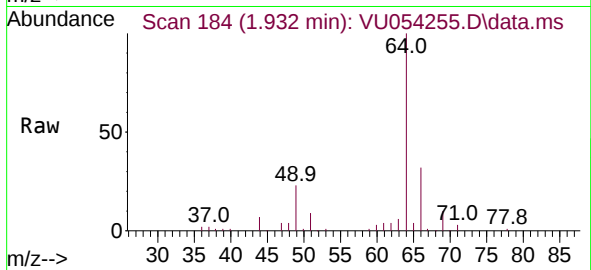




#8  
Chloroethane  
Concen: 5.394 ug/L  
RT: 1.932 min Scan# 184  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

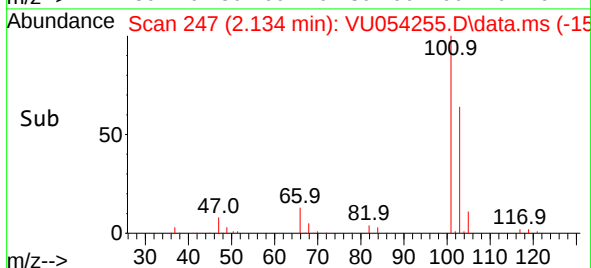
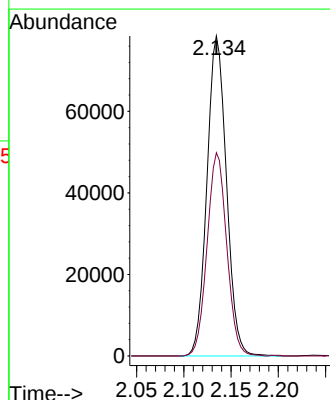
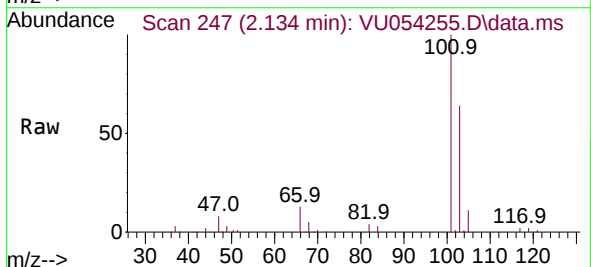
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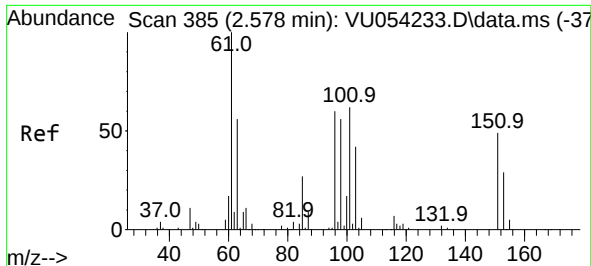
Tgt Ion: 64 Resp: 45565  
Ion Ratio Lower Upper  
64 100  
66 32.3 21.6 40.0



#9  
Trichlorofluoromethane  
Concen: 5.319 ug/L  
RT: 2.134 min Scan# 247  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion: 101 Resp: 112697  
Ion Ratio Lower Upper  
101 100  
103 63.9 51.0 76.6



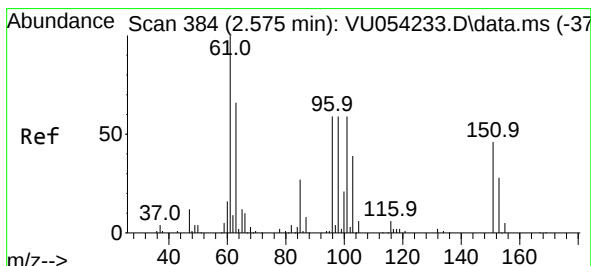
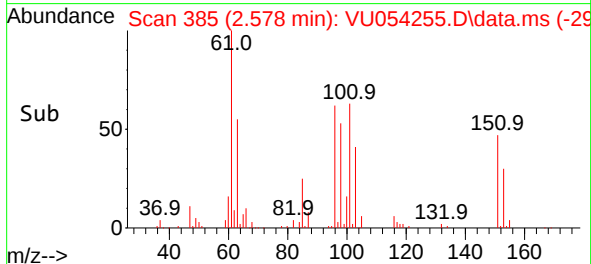
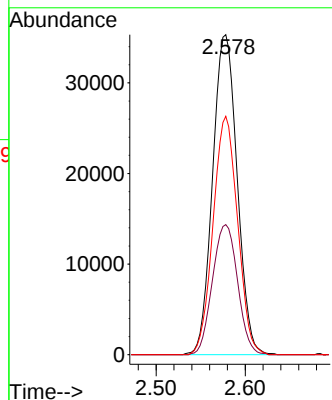
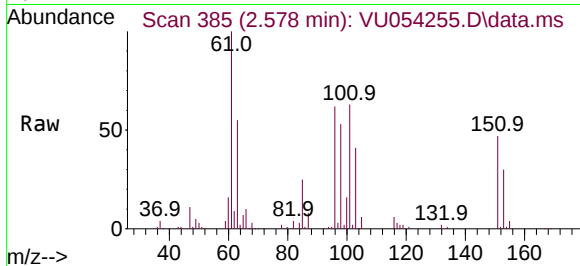


#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.510 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005172

Tgt Ion: 101 Resp: 67680  

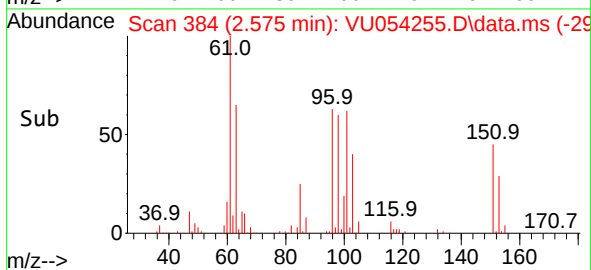
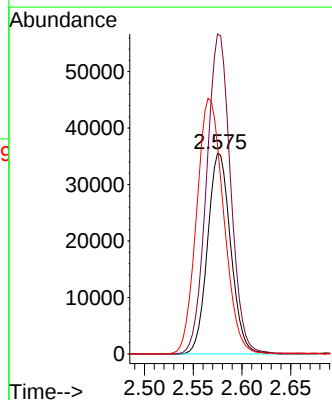
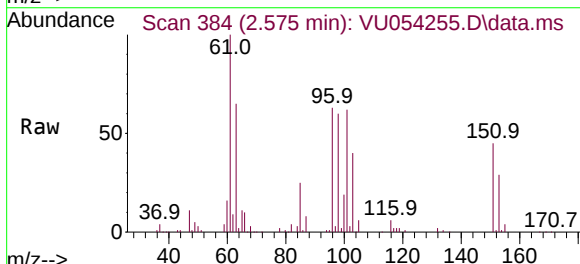
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 101 | 100   |       |       |
| 85  | 41.6  | 35.0  | 52.4  |
| 151 | 74.3  | 59.0  | 88.6  |

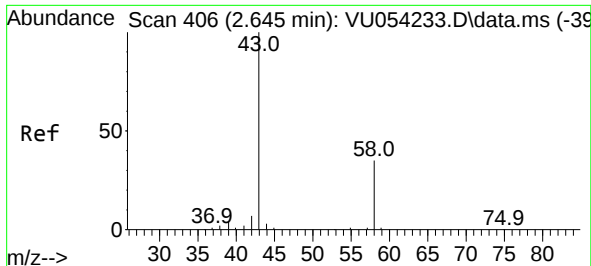


#12  
 1,1-Dichloroethene  
 Concen: 5.360 ug/L  
 RT: 2.575 min Scan# 384  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

Tgt Ion: 96 Resp: 58769  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 159.5 | 114.7 | 212.9 |
| 63  | 104.1 | 68.6  | 127.4 |





#13

Acetone

Concen: 41.858 ug/L

RT: 2.646 min Scan# 406

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

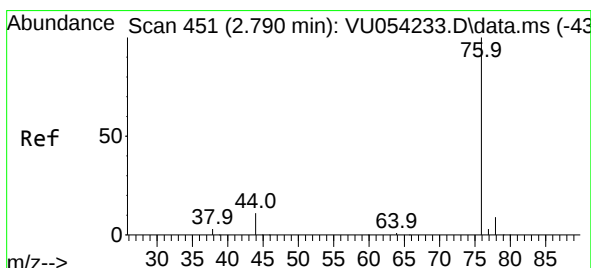
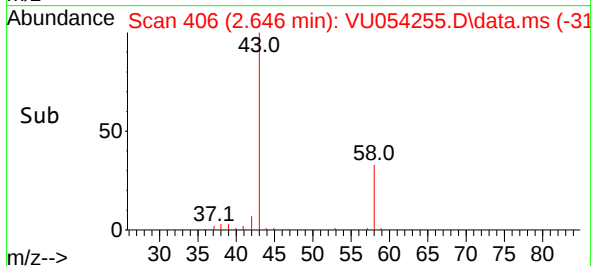
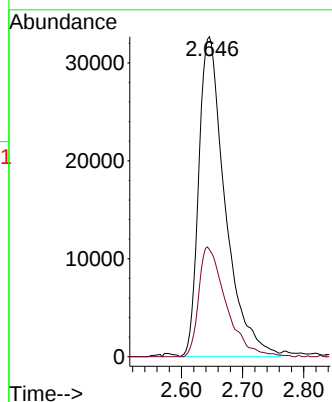
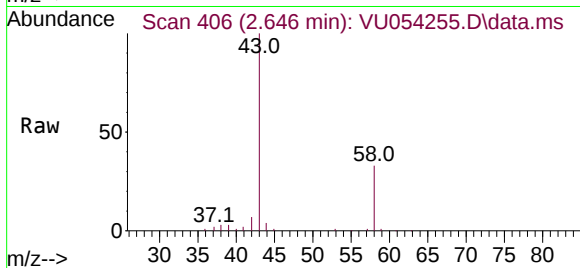
VSTD005172

Tgt Ion: 43 Resp: 98068

Ion Ratio Lower Upper

43 100

58 35.5 0.0 73.2



#14

Carbon disulfide

Concen: 4.978 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.000 min

Lab File: VU054255.D

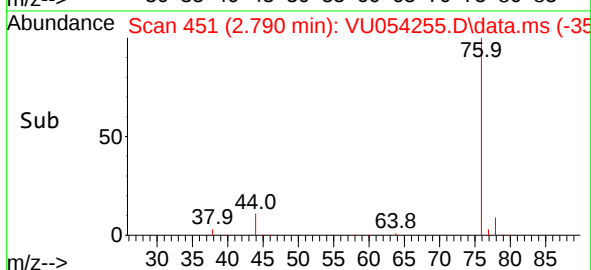
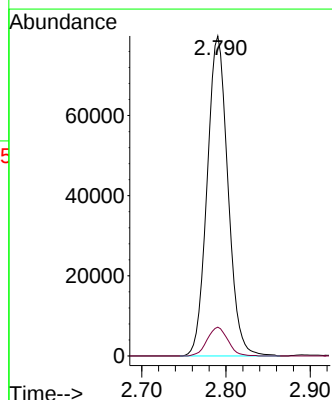
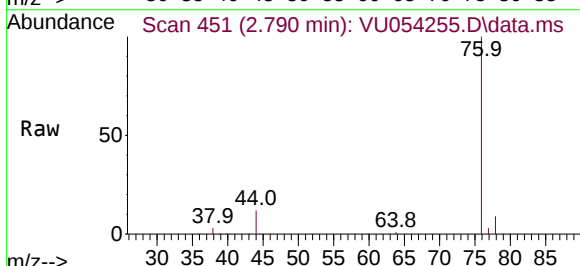
Acq: 22 May 2023 19:34

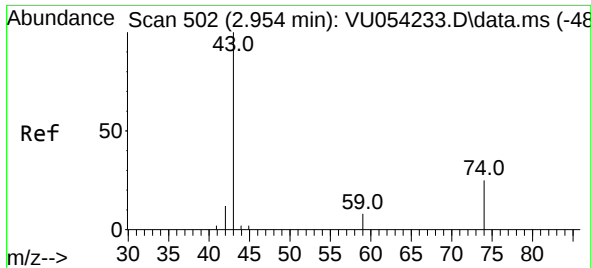
Tgt Ion: 76 Resp: 137111

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

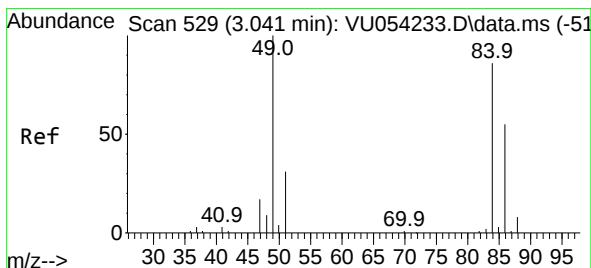
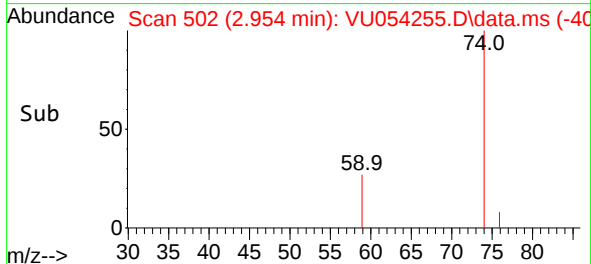
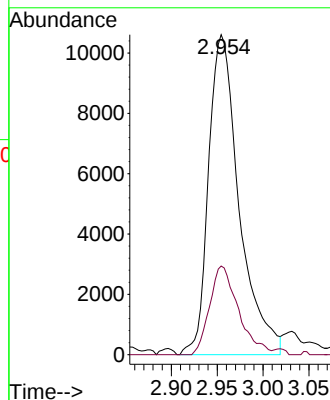
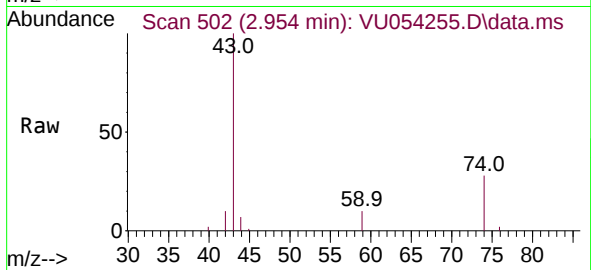




#15  
Methyl Acetate  
Concen: 5.863 ug/L  
RT: 2.954 min Scan# 502  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

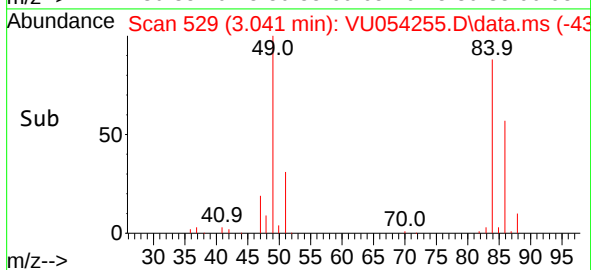
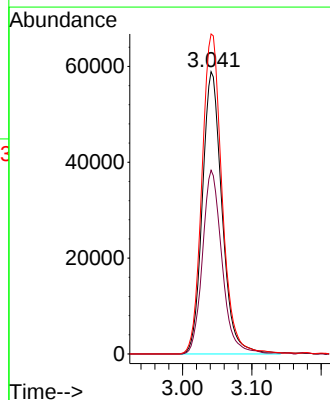
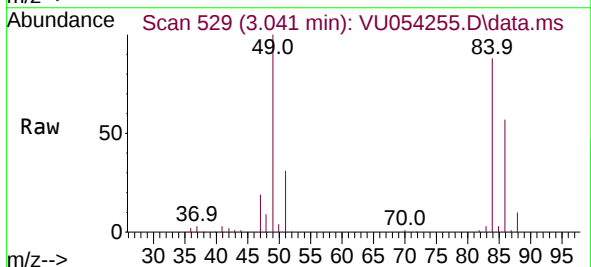
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

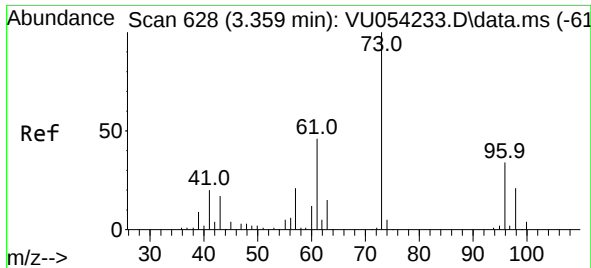
Tgt Ion: 43 Resp: 24626  
Ion Ratio Lower Upper  
43 100  
74 26.0 20.3 30.5



#16  
Methylene chloride  
Concen: 8.081 ug/L  
RT: 3.041 min Scan# 529  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion: 84 Resp: 115981  
Ion Ratio Lower Upper  
84 100  
86 65.1 45.5 84.5  
49 113.4 81.3 150.9

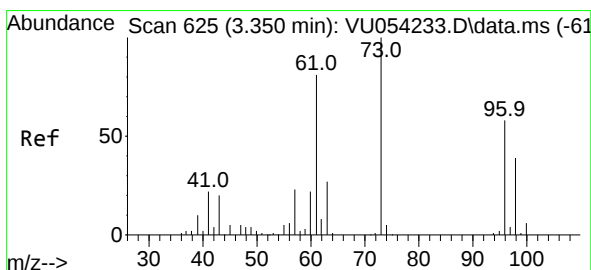
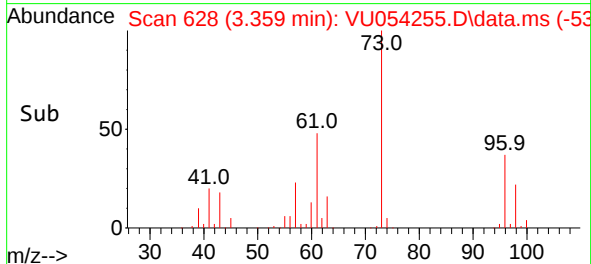
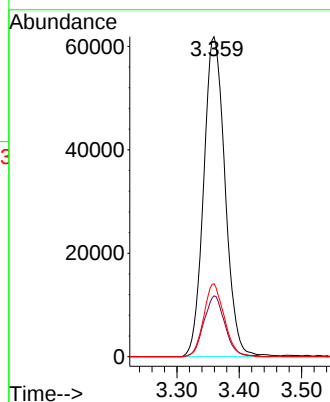
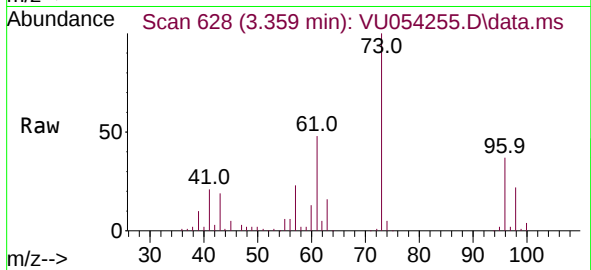




#17  
Methyl tert-butyl Ether  
Concen: 5.346 ug/L  
RT: 3.359 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

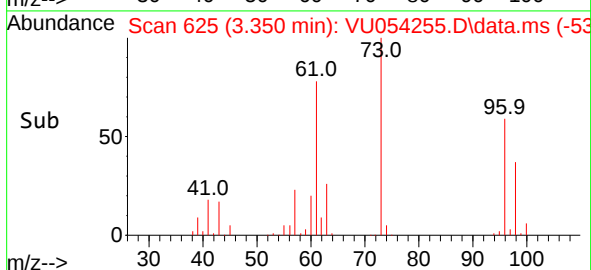
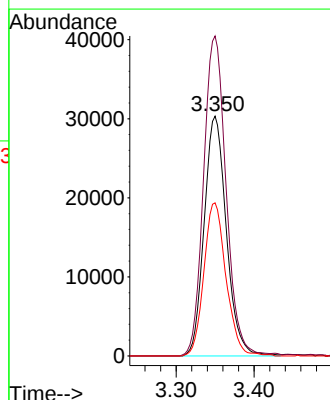
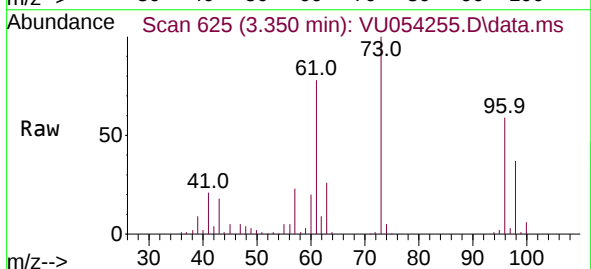
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

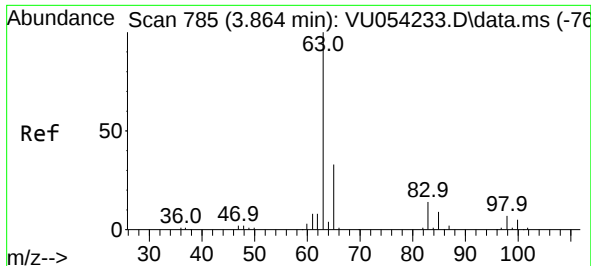
Tgt Ion: 73 Resp: 147548  
Ion Ratio Lower Upper  
73 100  
43 18.8 14.6 22.0  
57 21.9 17.1 25.7



#18  
trans-1,2-Dichloroethene  
Concen: 5.392 ug/L  
RT: 3.350 min Scan# 625  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion: 96 Resp: 60132  
Ion Ratio Lower Upper  
96 100  
61 133.4 94.1 174.8  
98 63.8 45.3 84.1

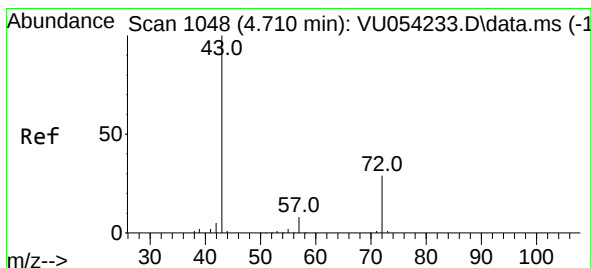
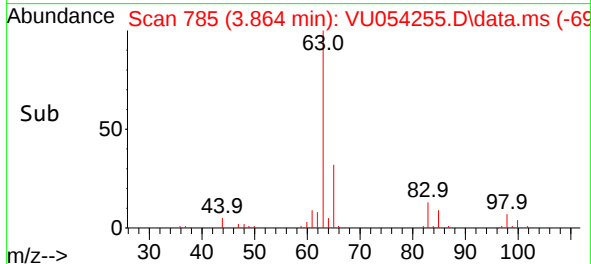
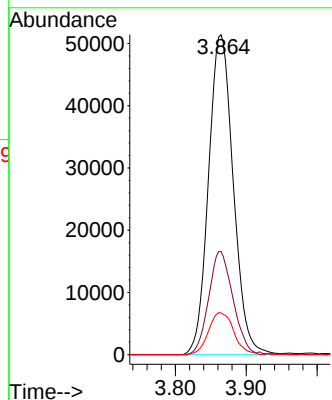
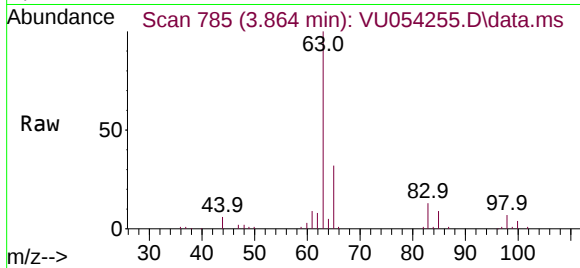




#19  
1,1-Dichloroethane  
Concen: 5.588 ug/L  
RT: 3.864 min Scan# 785  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

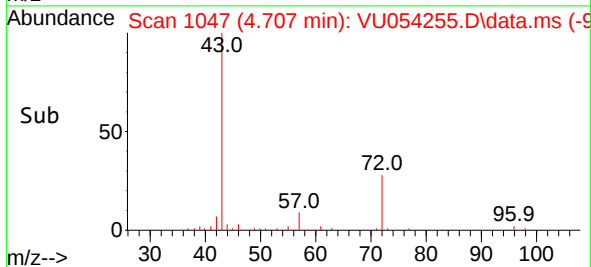
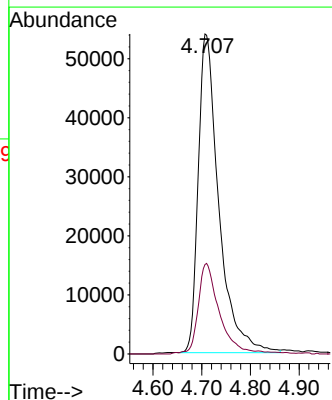
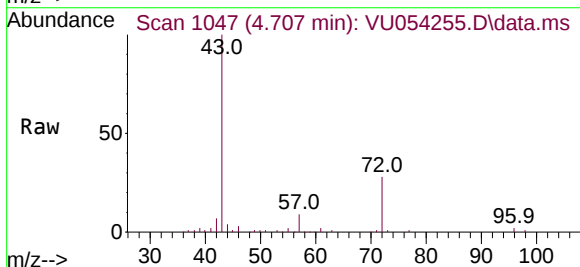
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

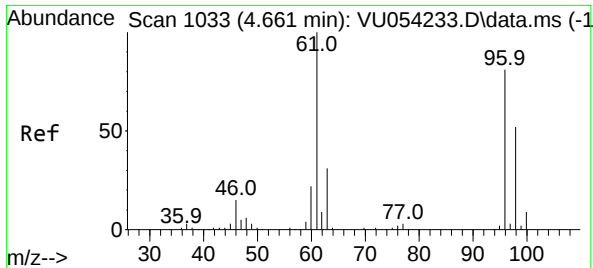
Tgt Ion: 63 Resp: 124769  
Ion Ratio Lower Upper  
63 100  
65 32.2 20.7 38.5  
83 13.0 10.1 18.7



#21  
2-Butanone  
Concen: 51.030 ug/L  
RT: 4.707 min Scan# 1047  
Delta R.T. -0.003 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion: 43 Resp: 158363  
Ion Ratio Lower Upper  
43 100  
72 28.8 14.2 42.8

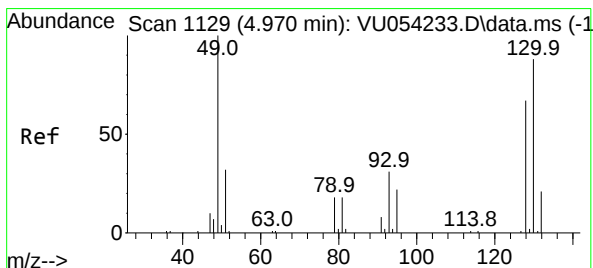
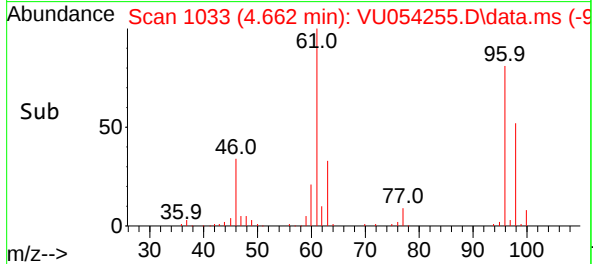
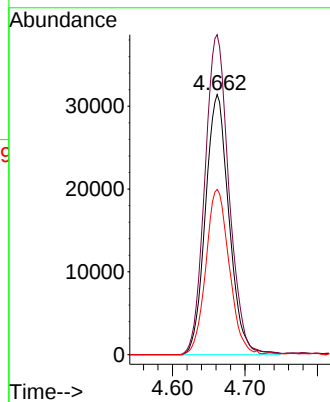
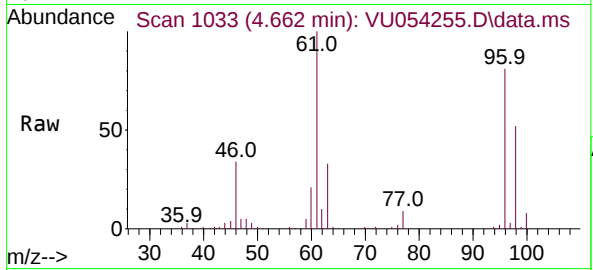




#22  
 cis-1,2-Dichloroethene  
 Concen: 5.456 ug/L  
 RT: 4.662 min Scan# 1033  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

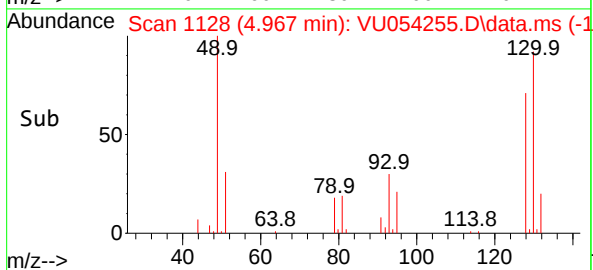
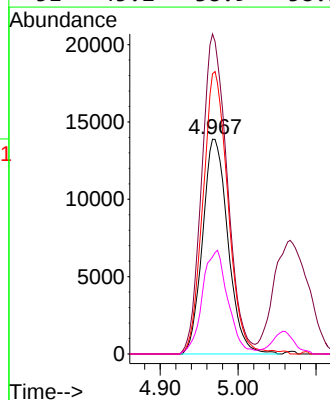
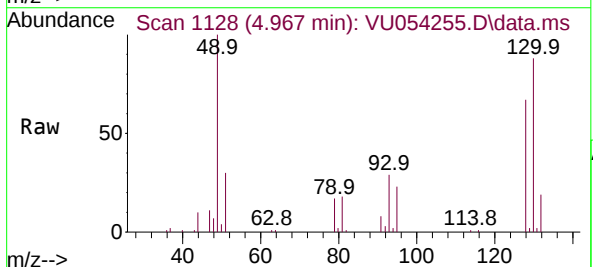
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005172

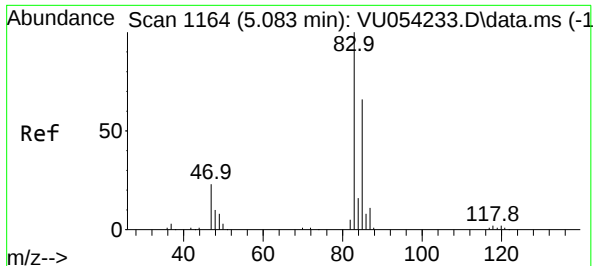
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 71141 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 123.0 | 85.0  | 157.8 |
| 98       | 63.5  | 45.8  | 85.0  |



#23  
 Bromochloromethane  
 Concen: 5.508 ug/L  
 RT: 4.967 min Scan# 1128  
 Delta R.T. -0.003 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 31375 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 149.0 | 100.9 | 187.3 |
| 130      | 130.5 | 93.2  | 173.0 |
| 51       | 45.2  | 38.9  | 58.3  |





#25

Chloroform

Concen: 5.467 ug/L

RT: 5.083 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

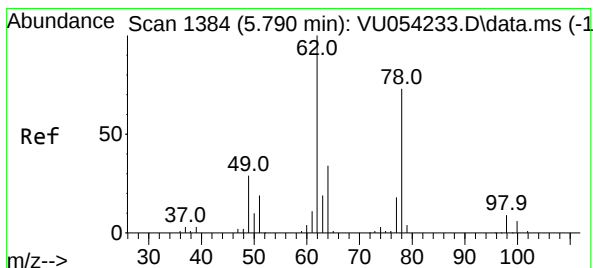
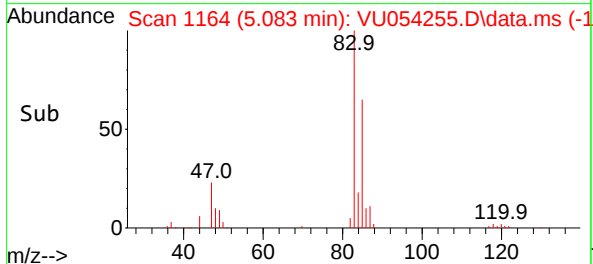
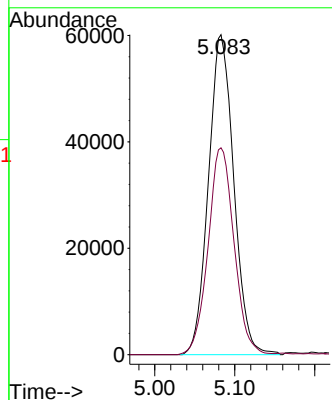
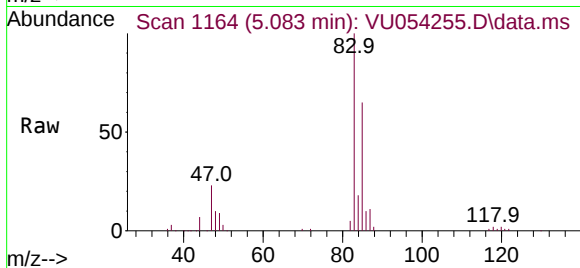
VSTD005172

Tgt Ion: 83 Resp: 132418

Ion Ratio Lower Upper

83 100

85 64.6 46.8 87.0



#27

1,2-Dichloroethane

Concen: 5.266 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VU054255.D

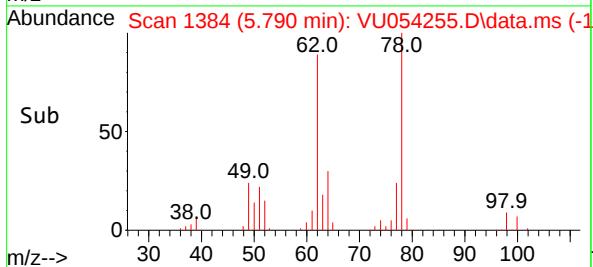
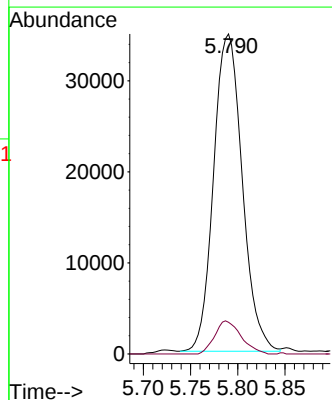
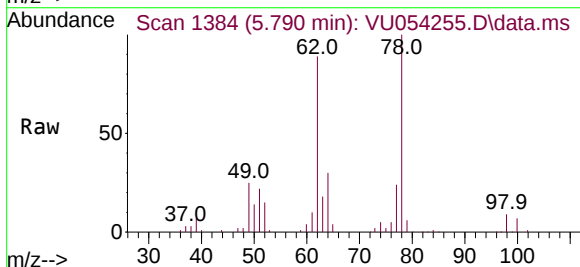
Acq: 22 May 2023 19:34

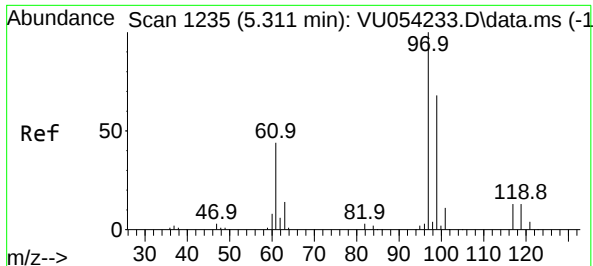
Tgt Ion: 62 Resp: 73330

Ion Ratio Lower Upper

62 100

98 9.9 7.6 11.4





#29

1,1,1-Trichloroethane

Concen: 5.272 ug/L

RT: 5.311 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005172

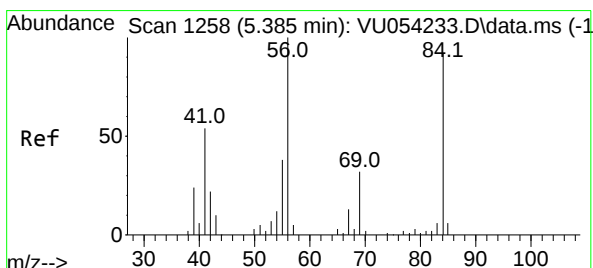
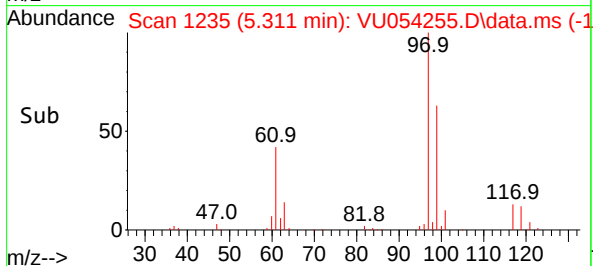
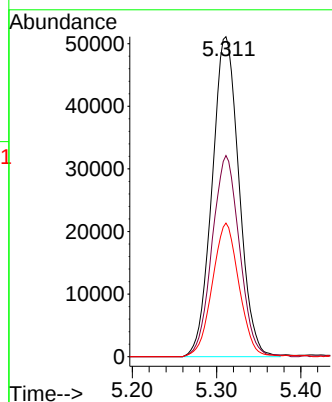
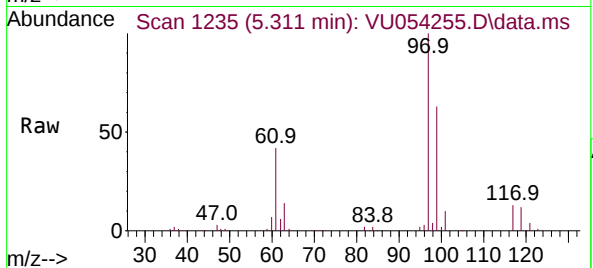
Tgt Ion: 97 Resp: 113457

Ion Ratio Lower Upper

97 100

99 64.0 51.8 77.6

61 41.4 33.4 50.2



#30

Cyclohexane

Concen: 5.251 ug/L

RT: 5.382 min Scan# 1257

Delta R.T. -0.003 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

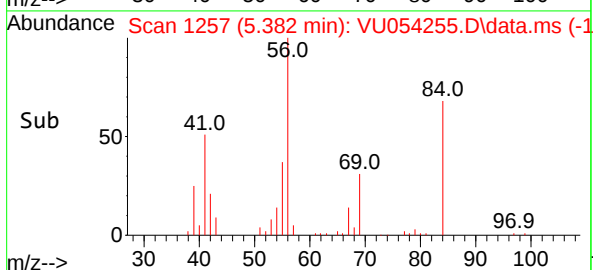
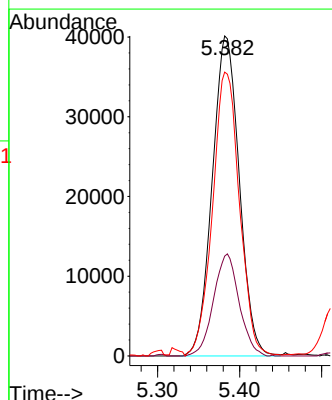
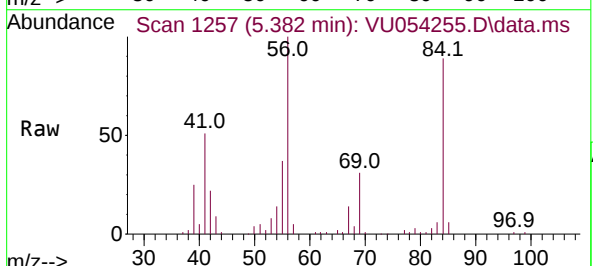
Tgt Ion: 56 Resp: 91977

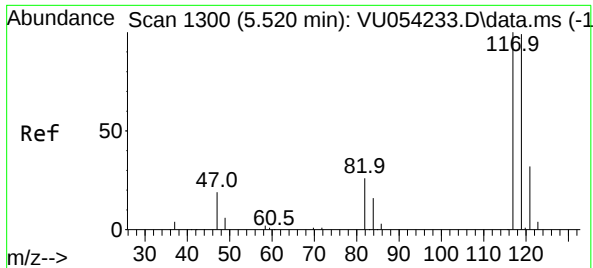
Ion Ratio Lower Upper

56 100

69 30.2 26.2 39.4

84 88.3 74.2 111.4

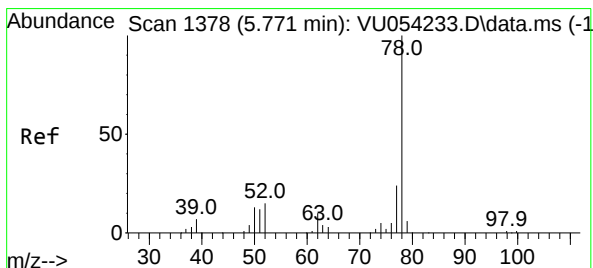
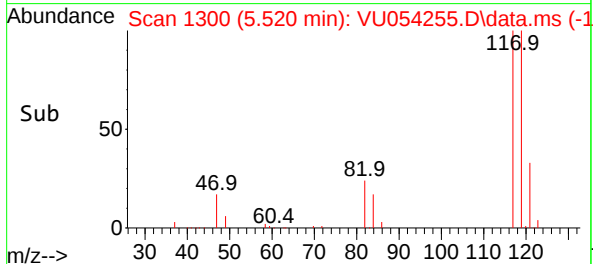
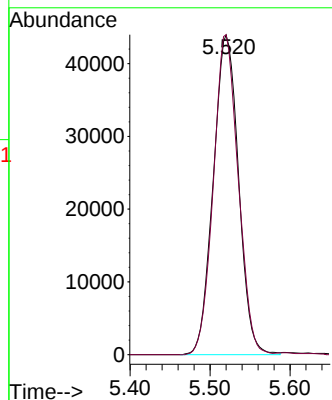
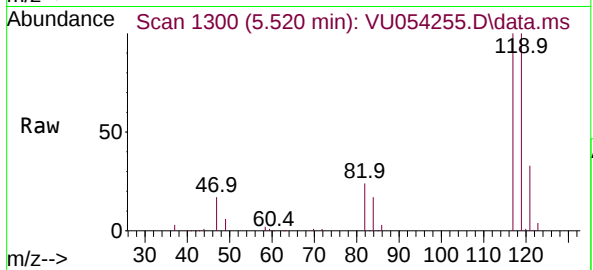




#31  
Carbon tetrachloride  
Concen: 5.157 ug/L  
RT: 5.520 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

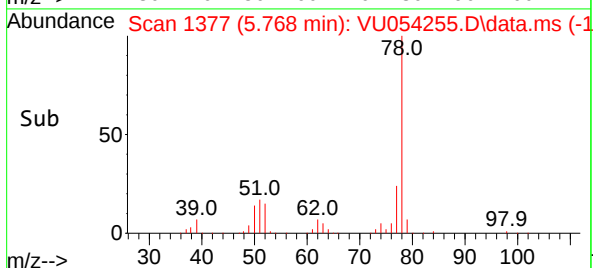
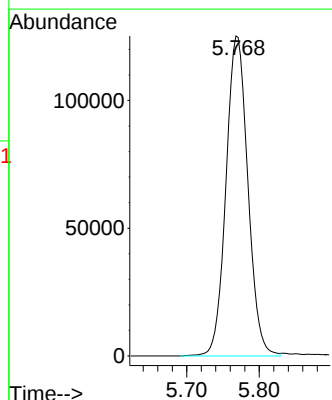
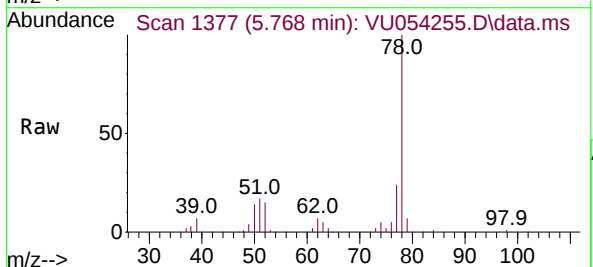
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

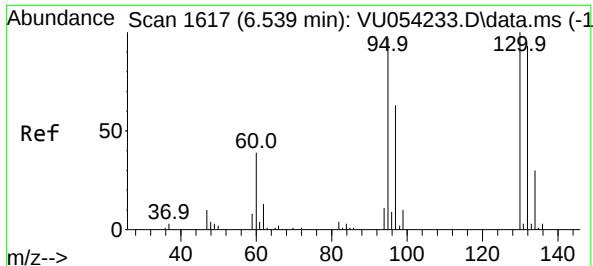
Tgt Ion:117 Resp: 96243  
Ion Ratio Lower Upper  
117 100  
119 98.3 76.6 114.8



#33  
Benzene  
Concen: 5.391 ug/L  
RT: 5.768 min Scan# 1377  
Delta R.T. -0.003 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion: 78 Resp: 262303

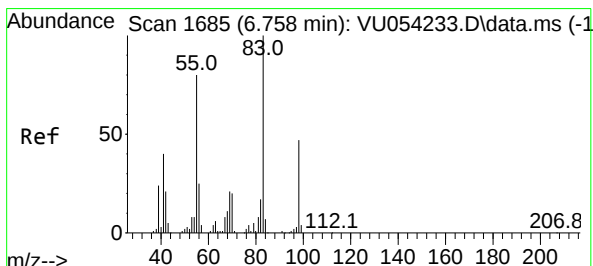
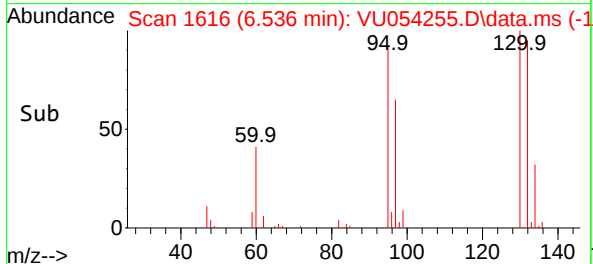
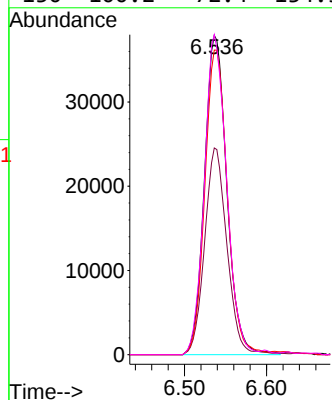
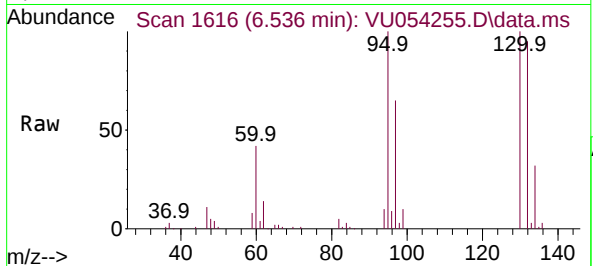




#34  
Trichloroethene  
Concen: 5.494 ug/L  
RT: 6.536 min Scan# 1616  
Delta R.T. -0.003 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

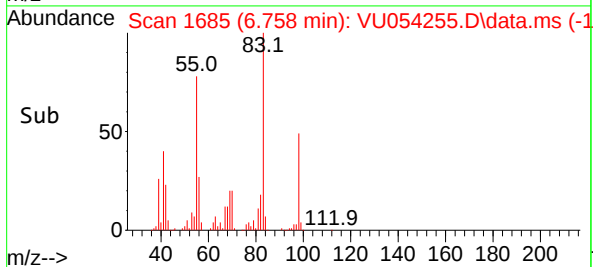
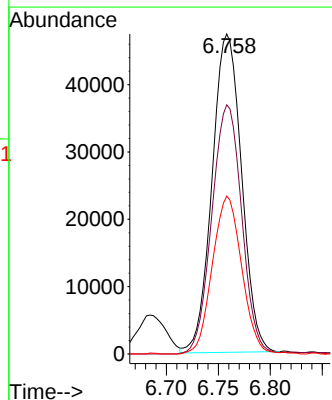
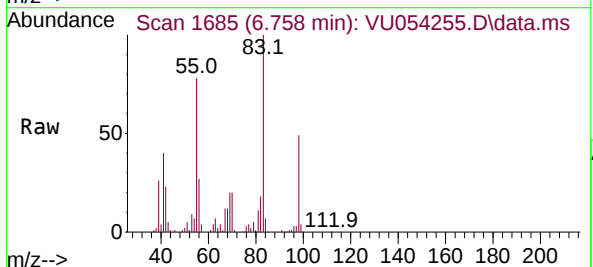
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

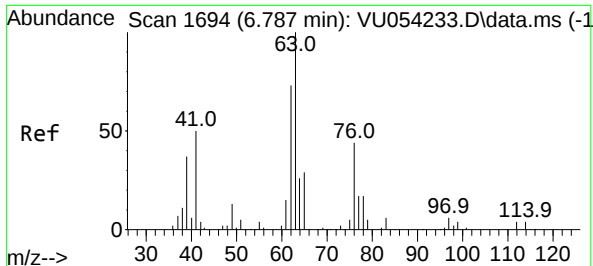
Tgt Ion: 95 Resp: 71890  
Ion Ratio Lower Upper  
95 100  
97 64.7 45.8 85.0  
132 95.4 70.1 130.3  
130 100.2 72.4 134.5



#35  
Methylcyclohexane  
Concen: 4.874 ug/L  
RT: 6.758 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion: 83 Resp: 93260  
Ion Ratio Lower Upper  
83 100  
55 79.3 61.6 92.4  
98 49.5 41.3 61.9





#37

1,2-Dichloropropane

Concen: 5.530 ug/L

RT: 6.784 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

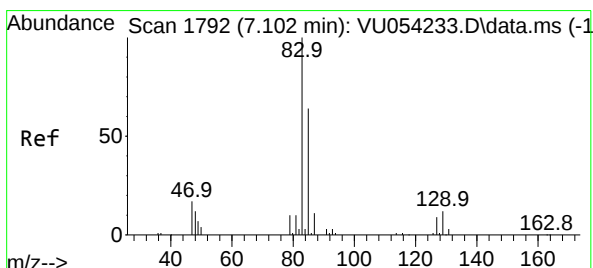
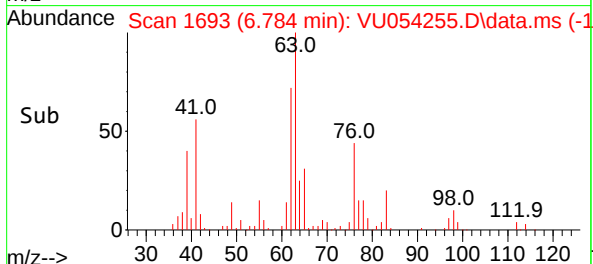
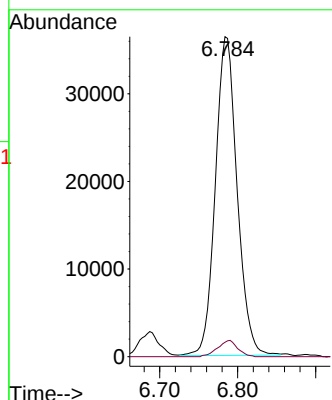
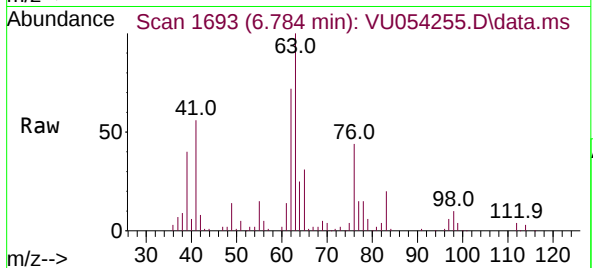
VSTD005172

Tgt Ion: 63 Resp: 70655

Ion Ratio Lower Upper

63 100

112 4.7 3.3 4.9



#38

Bromodichloromethane

Concen: 5.457 ug/L

RT: 7.102 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

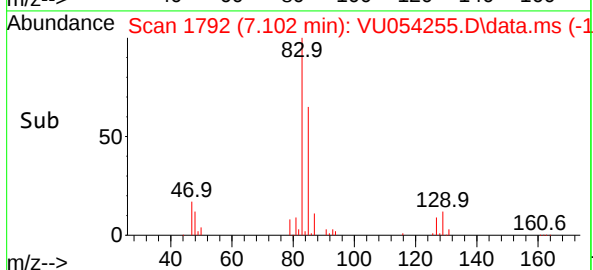
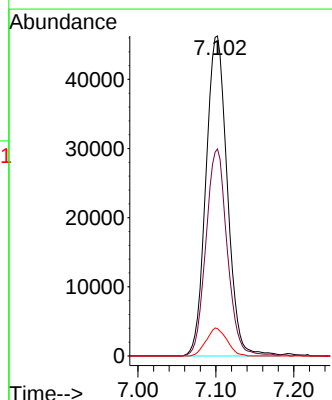
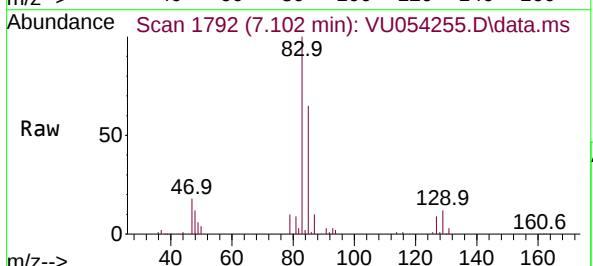
Tgt Ion: 83 Resp: 88280

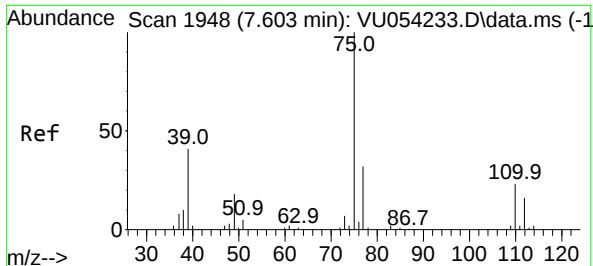
Ion Ratio Lower Upper

83 100

85 64.7 44.2 82.0

127 8.6 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 5.234 ug/L

RT: 7.600 min Scan# 1948

Delta R.T. -0.003 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

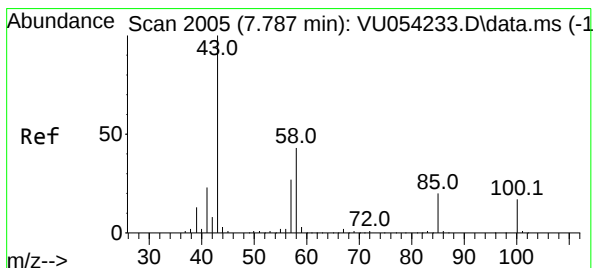
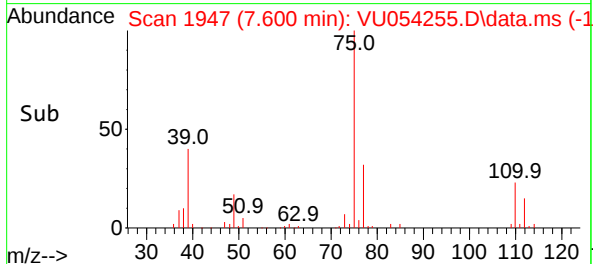
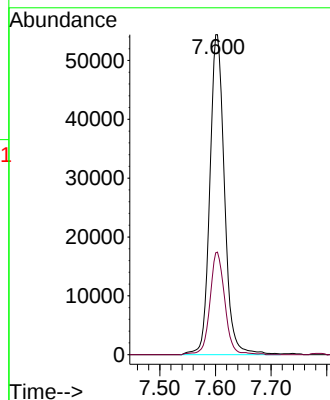
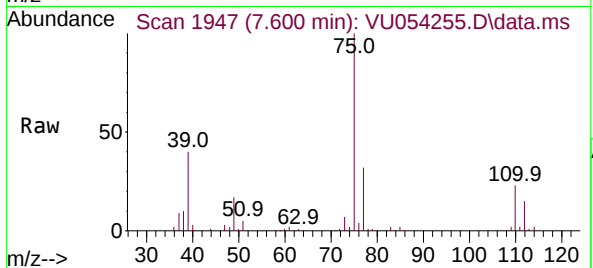
VSTD005172

Tgt Ion: 75 Resp: 99624

Ion Ratio Lower Upper

75 100

77 31.8 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 57.099 ug/L

RT: 7.787 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

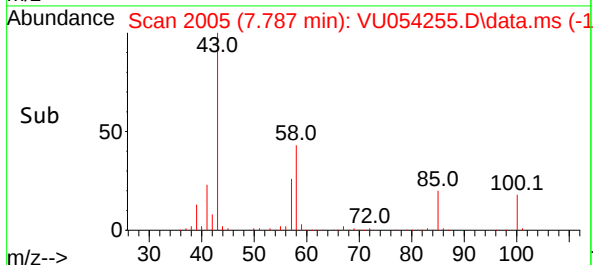
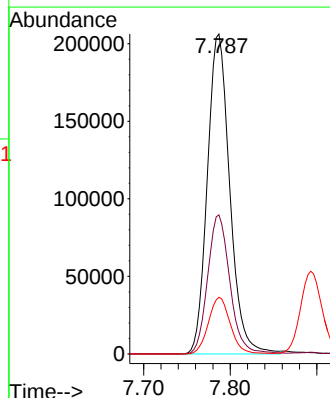
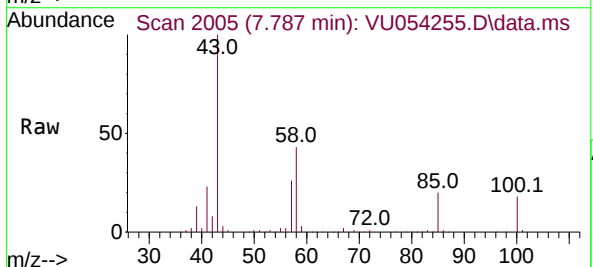
Tgt Ion: 43 Resp: 371330

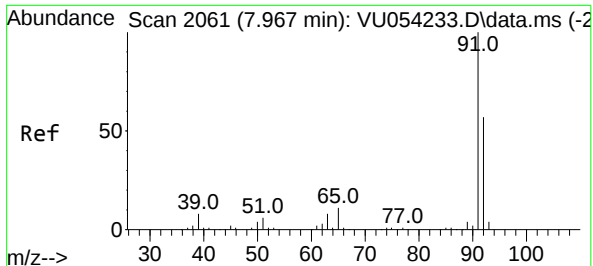
Ion Ratio Lower Upper

43 100

58 43.2 34.8 52.2

100 17.3 14.1 21.1





#42

Toluene

Concen: 5.369 ug/L

RT: 7.964 min Scan# 2061

Delta R.T. -0.003 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

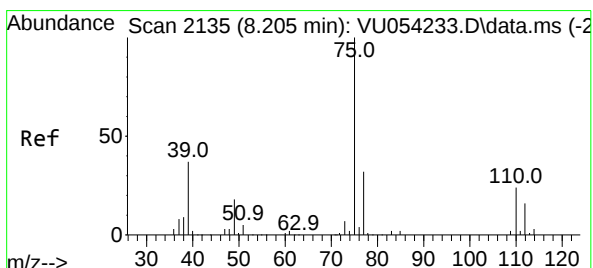
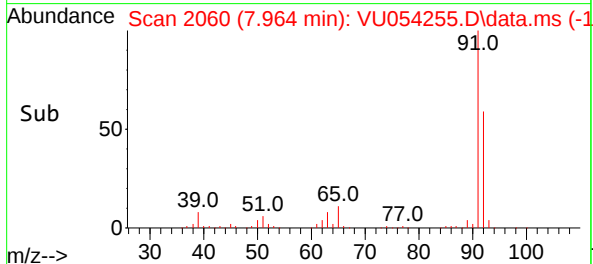
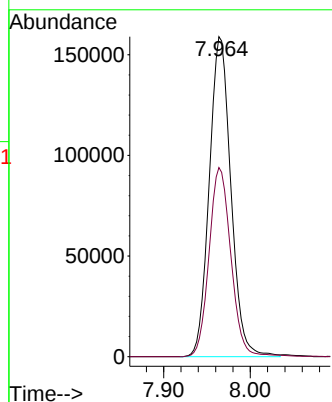
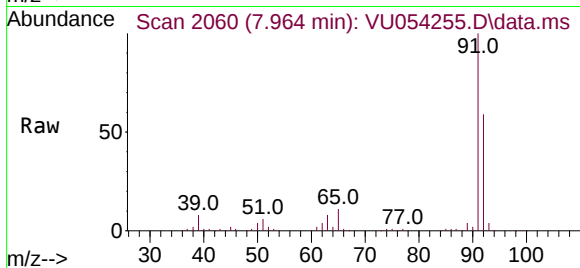
VSTD005172

Tgt Ion: 91 Resp: 276021

Ion Ratio Lower Upper

91 100

92 59.1 42.1 78.1



#44

trans-1,3-Dichloropropene

Concen: 5.330 ug/L

RT: 8.205 min Scan# 2135

Delta R.T. 0.000 min

Lab File: VU054255.D

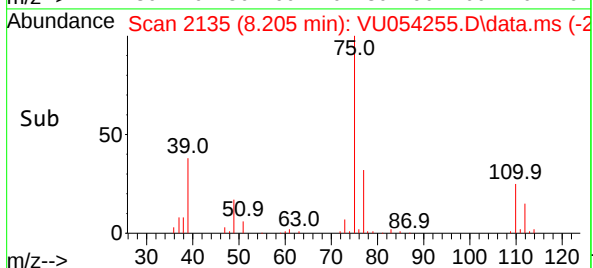
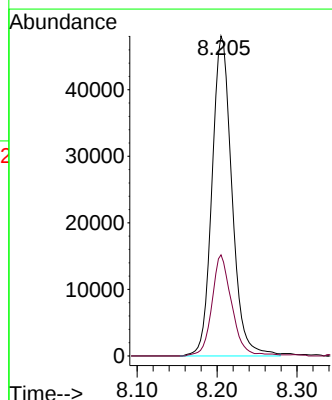
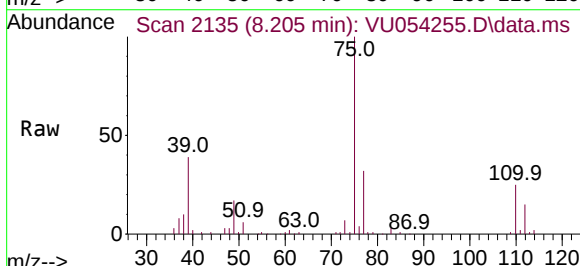
Acq: 22 May 2023 19:34

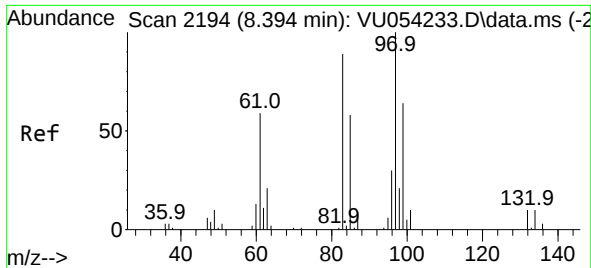
Tgt Ion: 75 Resp: 83268

Ion Ratio Lower Upper

75 100

77 31.6 20.8 38.6

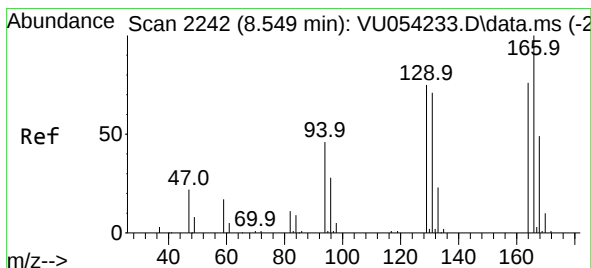
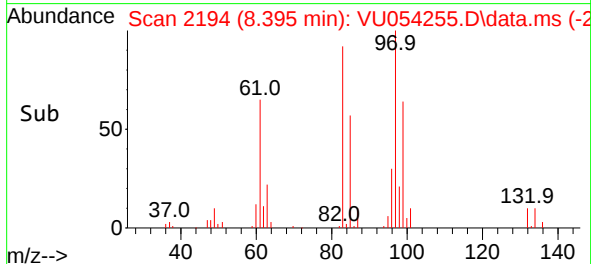
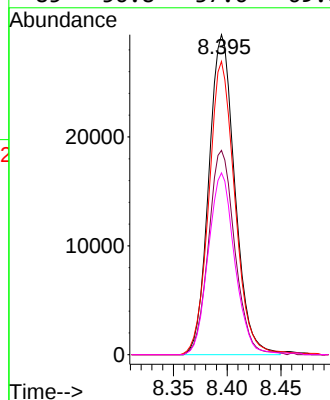
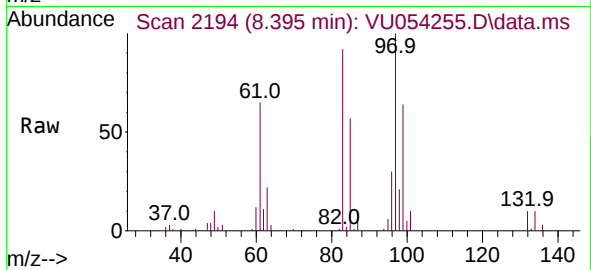




#45  
1,1,2-Trichloroethane  
Concen: 5.376 ug/L  
RT: 8.395 min Scan# 2194  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

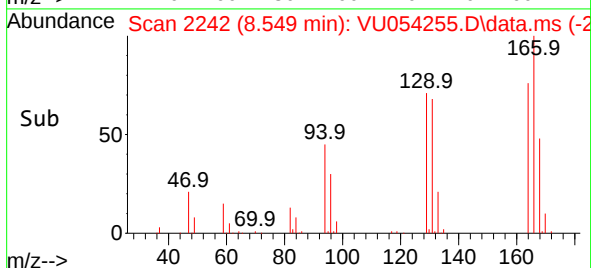
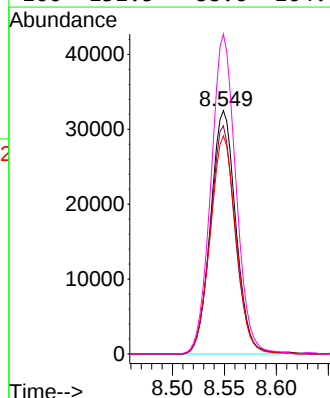
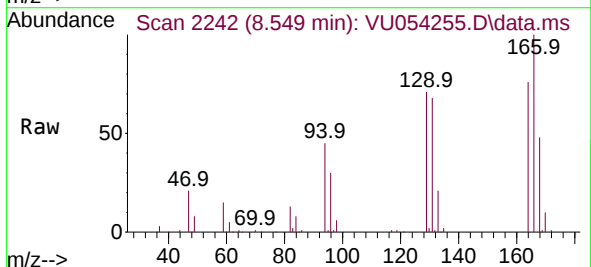
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

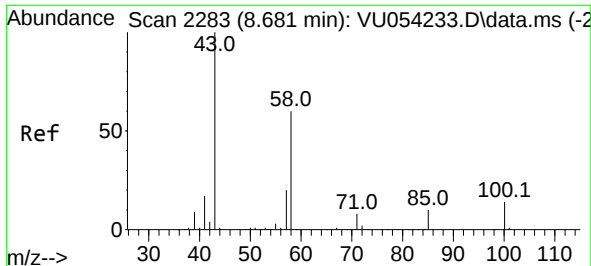
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 49494 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.9  | 43.0  | 79.8  |
| 83       | 91.6  | 59.1  | 109.9 |
| 85       | 56.8  | 37.6  | 69.8  |



#47  
Tetrachloroethene  
Concen: 5.088 ug/L  
RT: 8.549 min Scan# 2242  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 54709 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 93.8  | 63.3  | 117.7 |
| 131      | 89.7  | 61.0  | 113.4 |
| 166      | 131.5 | 88.6  | 164.6 |

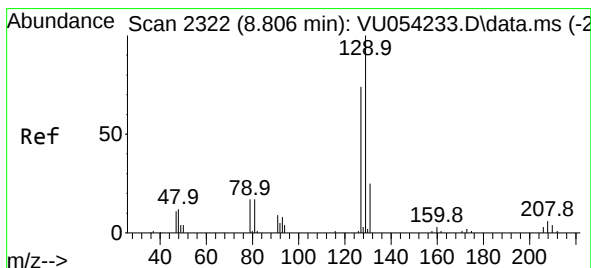
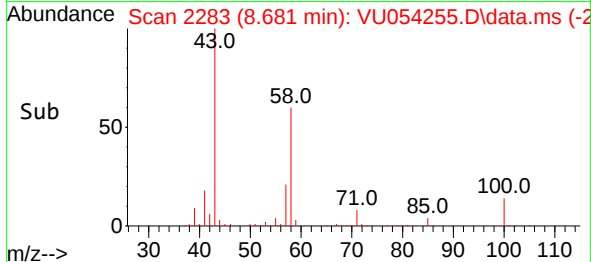
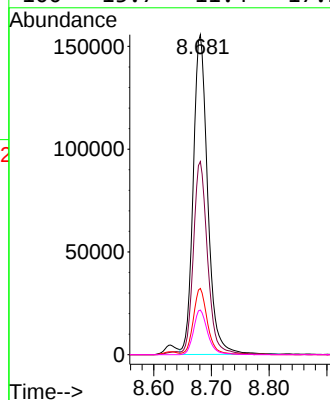
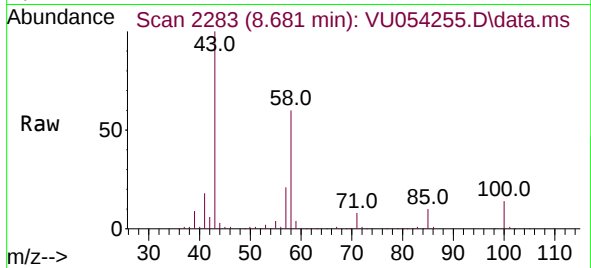




#48  
2-Hexanone  
Concen: 55.173 ug/L  
RT: 8.681 min Scan# 2128  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

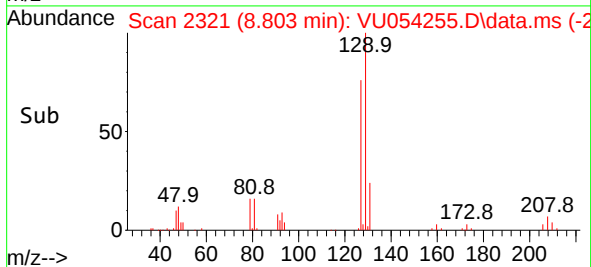
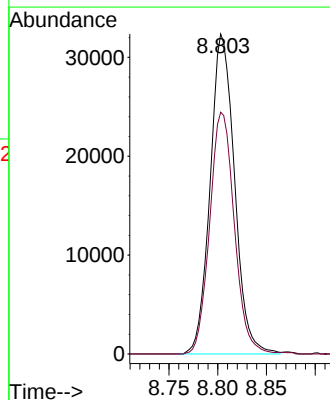
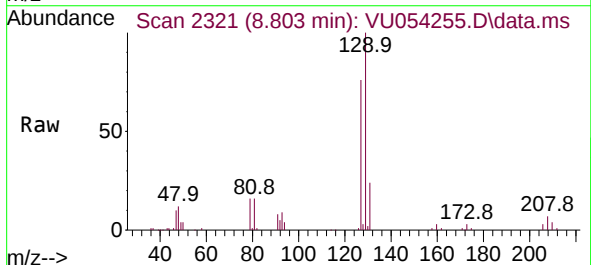
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

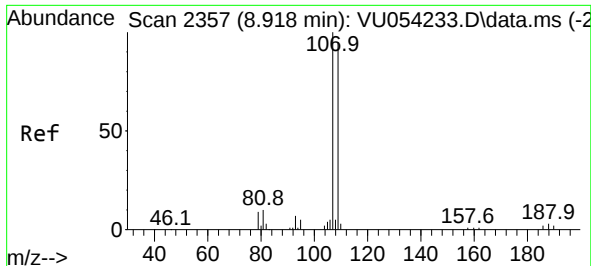
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 271286 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 59.0  | 48.6  | 72.8   |
| 57       | 20.3  | 16.7  | 25.1   |
| 100      | 13.7  | 11.4  | 17.2   |



#49  
Dibromochloromethane  
Concen: 5.486 ug/L  
RT: 8.803 min Scan# 2321  
Delta R.T. -0.003 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 56382 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 75.5  | 53.6  | 99.6  |





#50

1,2-Dibromoethane

Concen: 5.723 ug/L

RT: 8.919 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005172

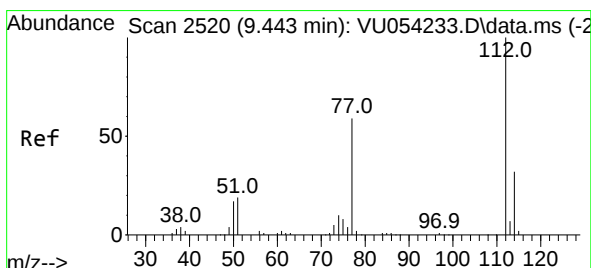
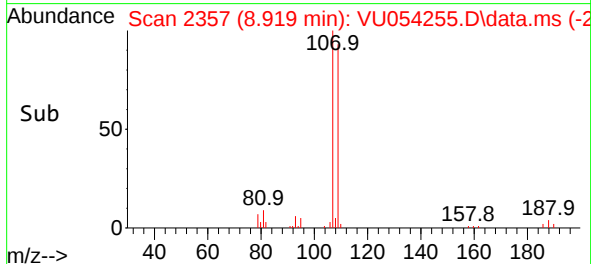
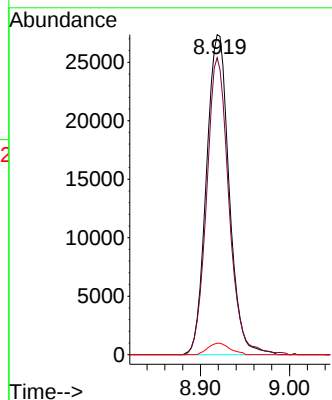
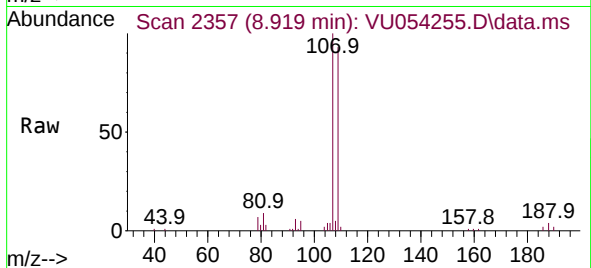
Tgt Ion:107 Resp: 48422

Ion Ratio Lower Upper

107 100

109 92.8 66.4 123.2

188 3.6 3.8 5.6#



#51

Chlorobenzene

Concen: 5.176 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

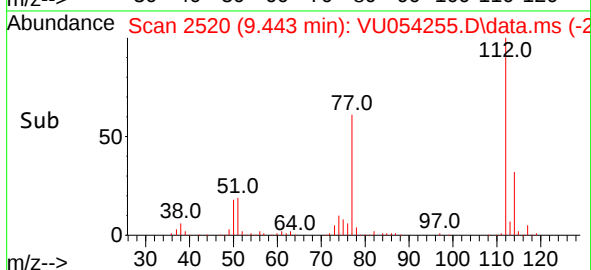
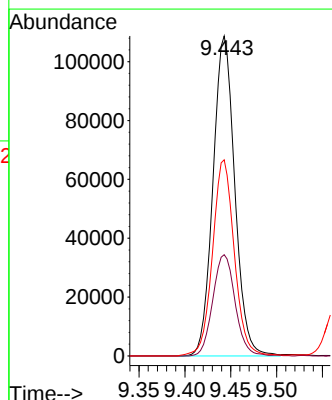
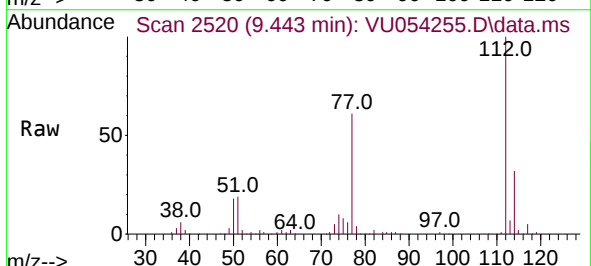
Tgt Ion:112 Resp: 179913

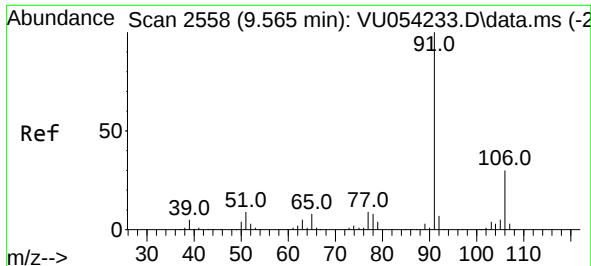
Ion Ratio Lower Upper

112 100

114 31.7 22.4 41.6

77 61.3 46.1 69.1





#52

Ethylbenzene

Concen: 5.405 ug/L

RT: 9.565 min Scan# 2558

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

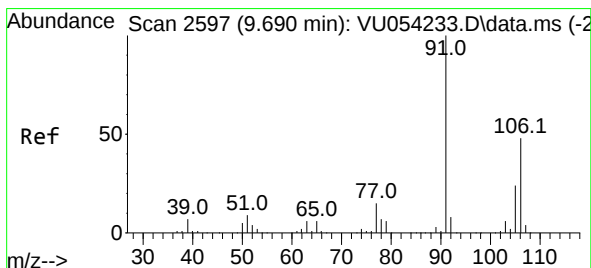
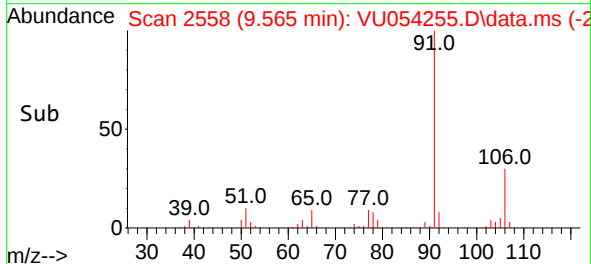
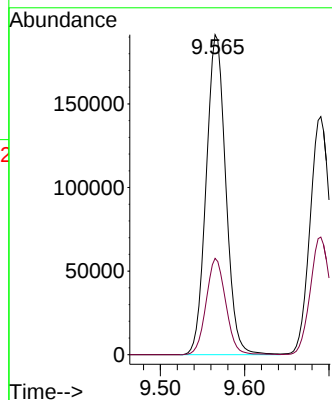
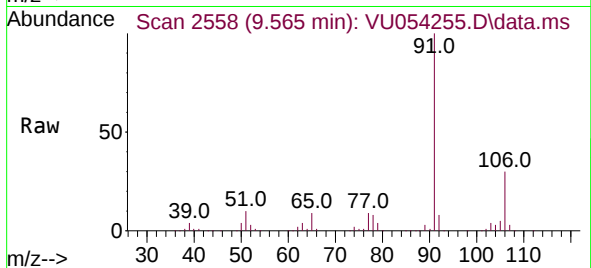
VSTD005172

Tgt Ion: 91 Resp: 309687

Ion Ratio Lower Upper

91 100

106 30.1 21.3 39.5



#53

m,p-Xylene

Concen: 5.436 ug/L

RT: 9.690 min Scan# 2597

Delta R.T. 0.000 min

Lab File: VU054255.D

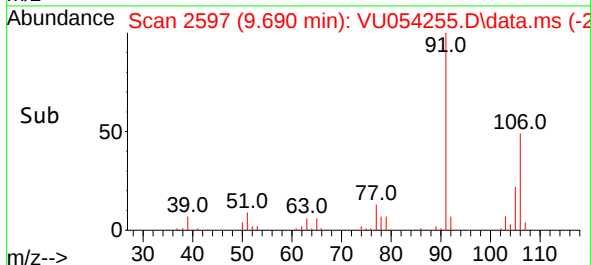
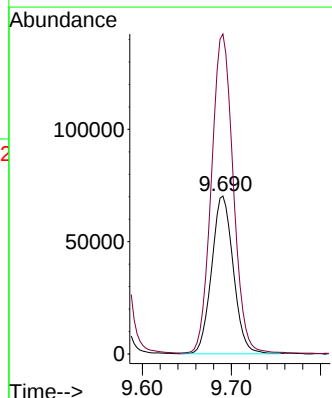
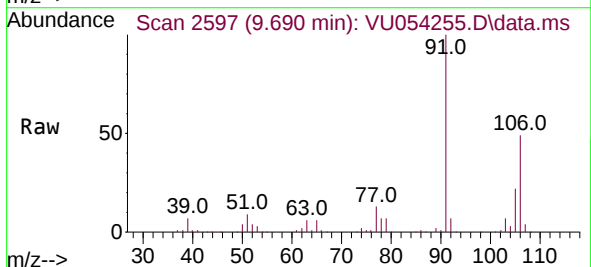
Acq: 22 May 2023 19:34

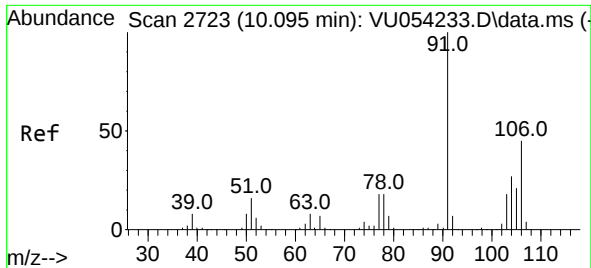
Tgt Ion: 106 Resp: 118284

Ion Ratio Lower Upper

106 100

91 202.5 146.3 271.7

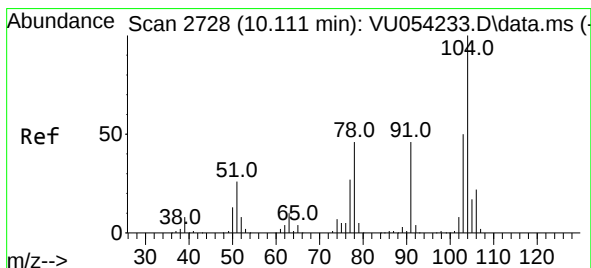
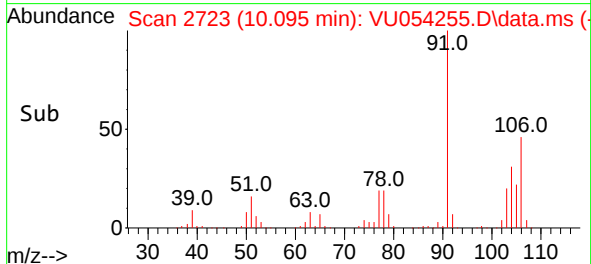
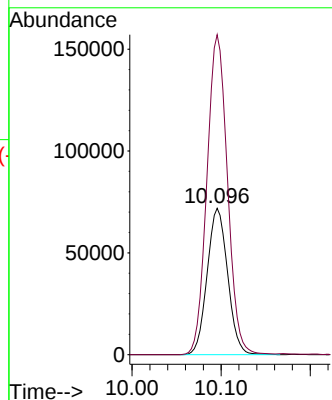
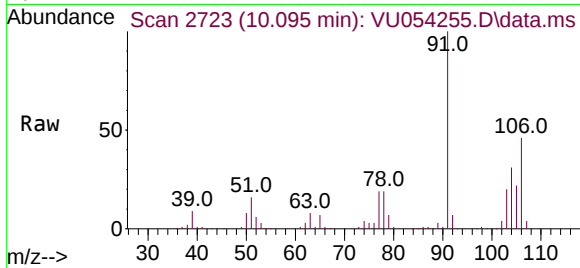




#54  
o-Xylene  
Concen: 5.342 ug/L  
RT: 10.095 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

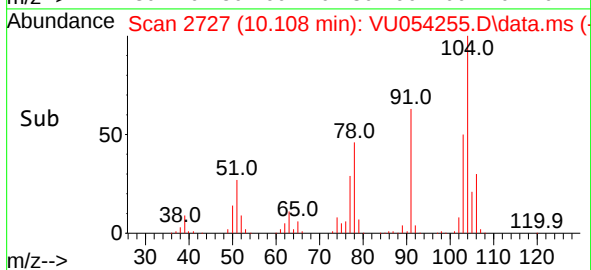
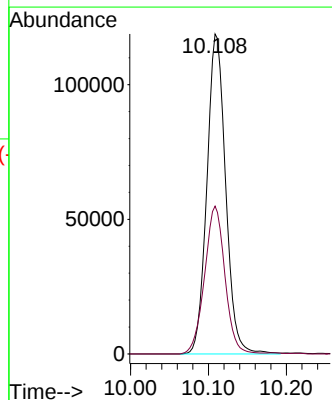
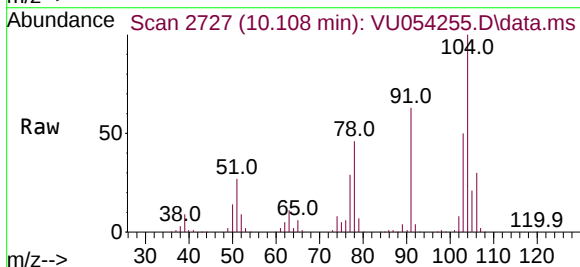
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

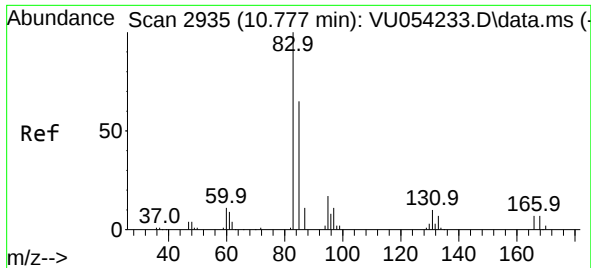
Tgt Ion:106 Resp: 114813  
Ion Ratio Lower Upper  
106 100  
91 218.6 153.6 285.3



#55  
Styrene  
Concen: 5.649 ug/L  
RT: 10.108 min Scan# 2727  
Delta R.T. -0.003 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion:104 Resp: 198521  
Ion Ratio Lower Upper  
104 100  
78 46.2 33.1 61.5



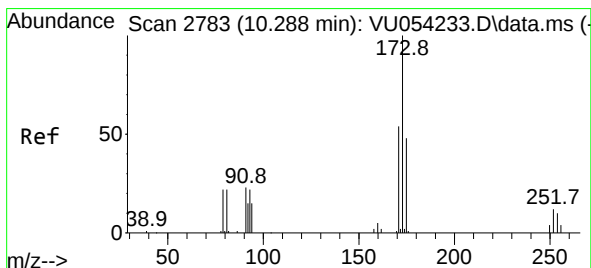
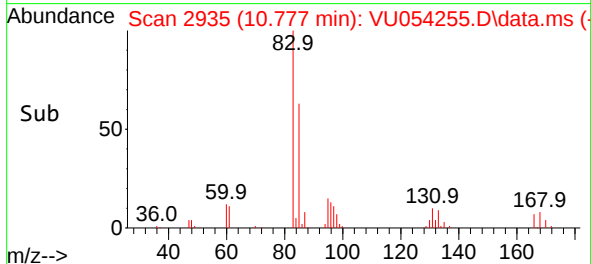
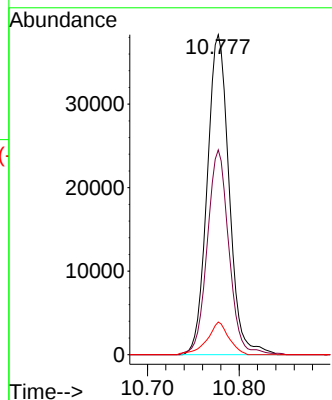
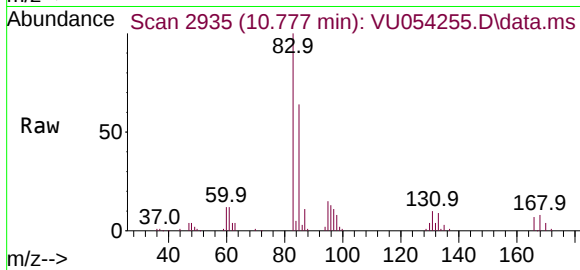


#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 5.815 ug/L  
 RT: 10.777 min Scan# 2935  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005172

Tgt Ion: 83 Resp: 63580  

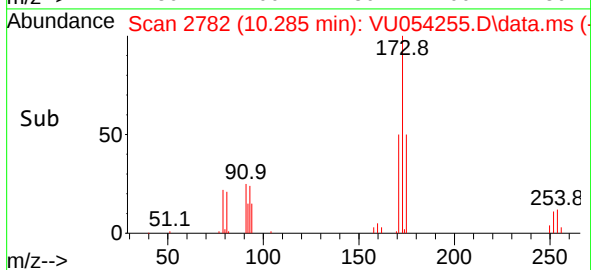
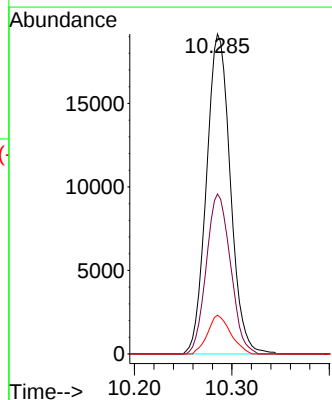
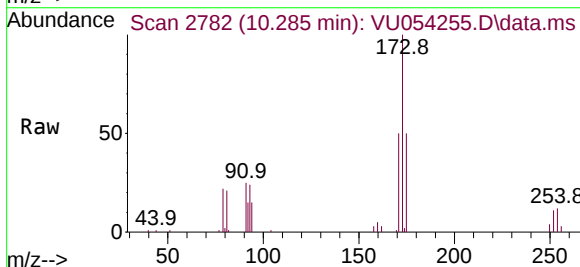
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 64.0  | 44.8  | 83.2  |
| 131 | 10.2  | 8.1   | 12.1  |

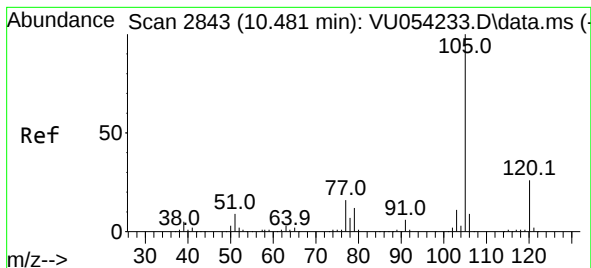


#59  
 Bromoform  
 Concen: 5.397 ug/L  
 RT: 10.285 min Scan# 2782  
 Delta R.T. -0.003 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

Tgt Ion: 173 Resp: 32638  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 50.5  | 38.6  | 58.0  |
| 254 | 11.6  | 7.9   | 11.9  |





#60

Isopropylbenzene

Concen: 5.440 ug/L

RT: 10.481 min Scan# 2843

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005172

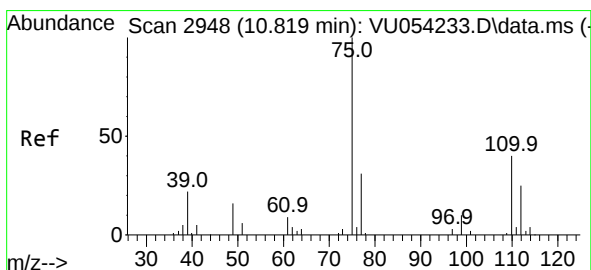
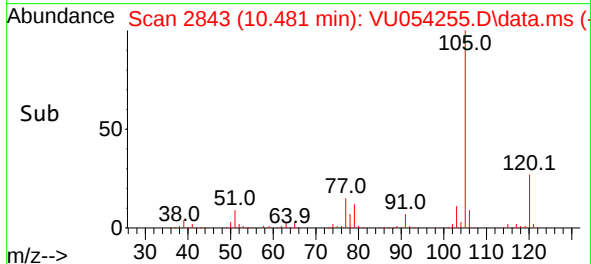
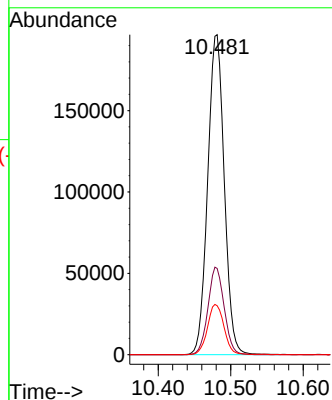
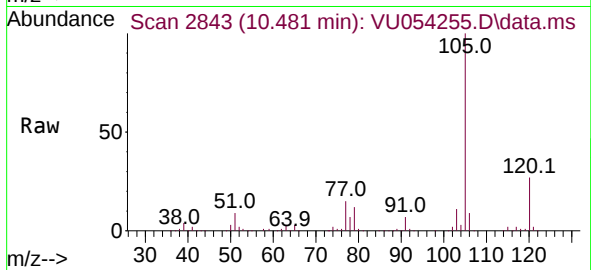
Tgt Ion:105 Resp: 312132

Ion Ratio Lower Upper

105 100

120 26.7 21.3 31.9

77 15.7 12.6 18.8



#61

1,2,3-Trichloropropane

Concen: 5.529 ug/L

RT: 10.816 min Scan# 2947

Delta R.T. -0.003 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

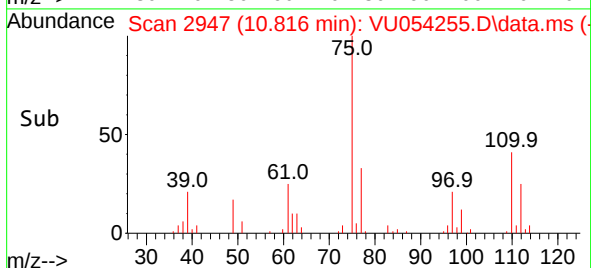
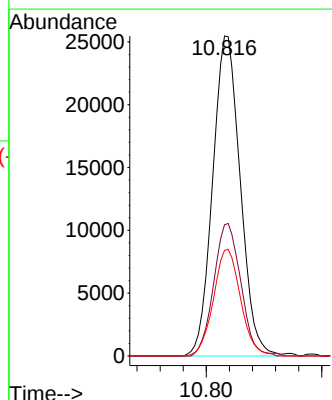
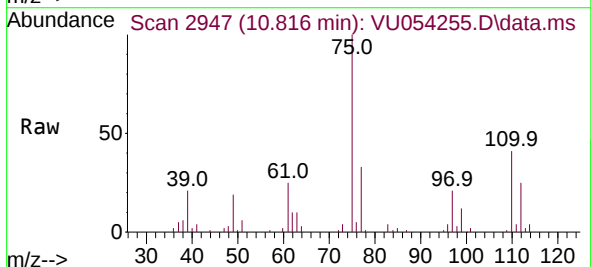
Tgt Ion: 75 Resp: 42150

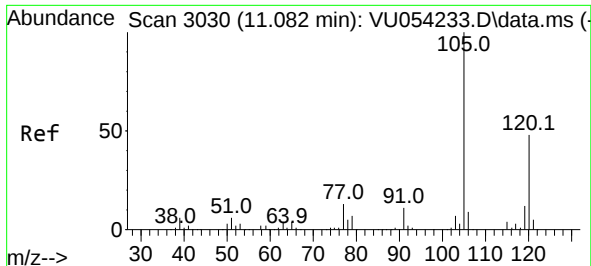
Ion Ratio Lower Upper

75 100

110 40.5 32.3 48.5

77 33.0 26.3 39.5





#62

1,3,5-Trimethylbenzene

Concen: 5.335 ug/L

RT: 11.083 min Scan# 3030

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

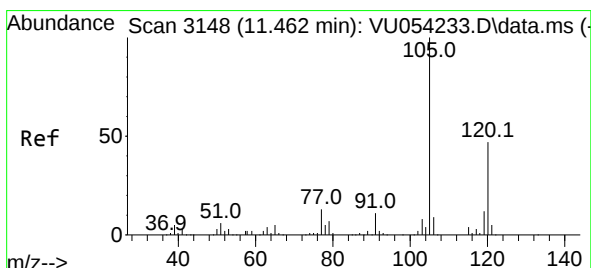
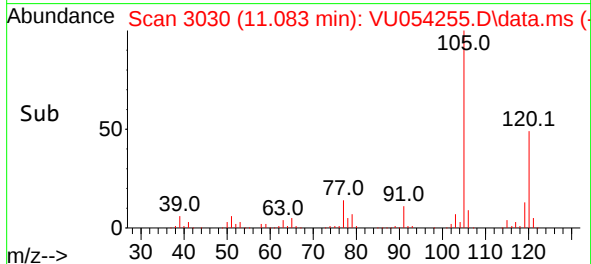
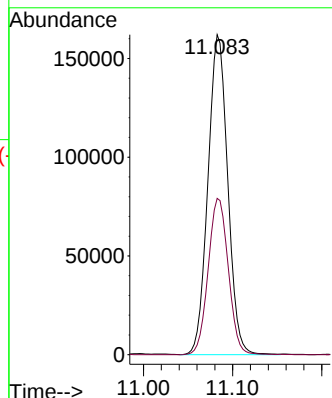
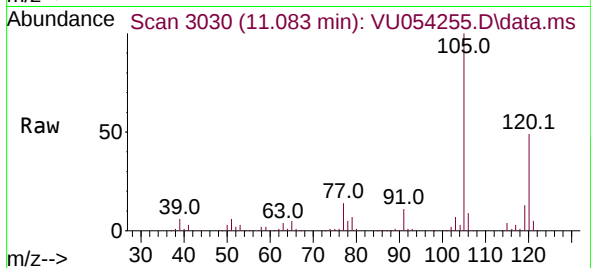
VSTD005172

Tgt Ion:105 Resp: 249868

Ion Ratio Lower Upper

105 100

120 49.6 39.4 59.0



#63

1,2,4-Trimethylbenzene

Concen: 5.524 ug/L

RT: 11.462 min Scan# 3148

Delta R.T. 0.000 min

Lab File: VU054255.D

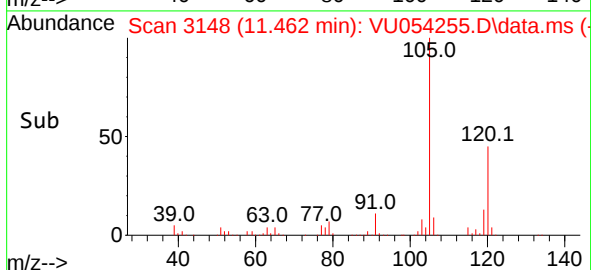
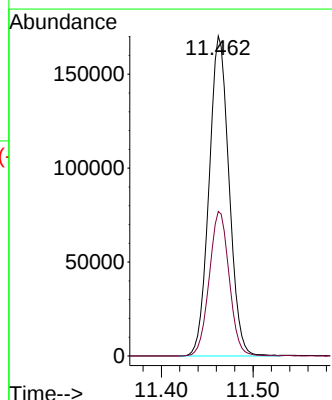
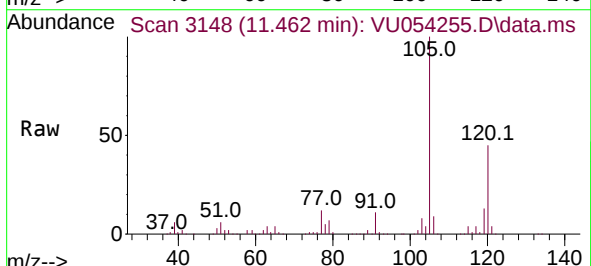
Acq: 22 May 2023 19:34

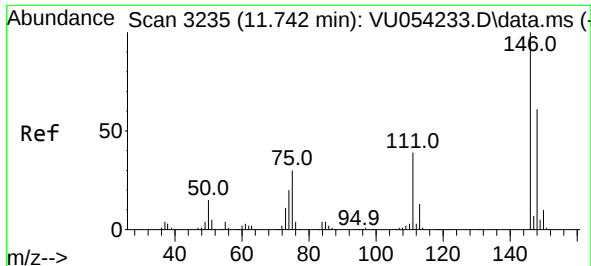
Tgt Ion:105 Resp: 258217

Ion Ratio Lower Upper

105 100

120 45.0 36.9 55.3

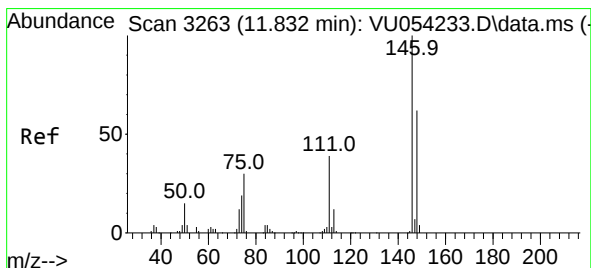
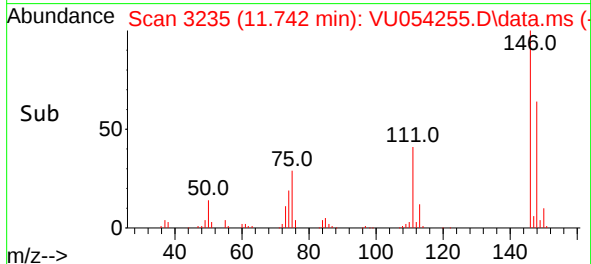
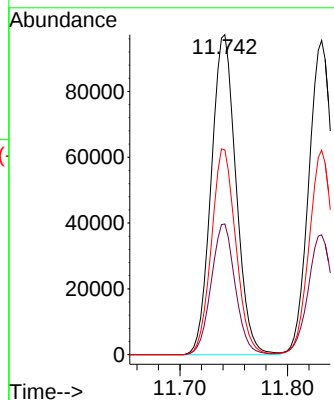
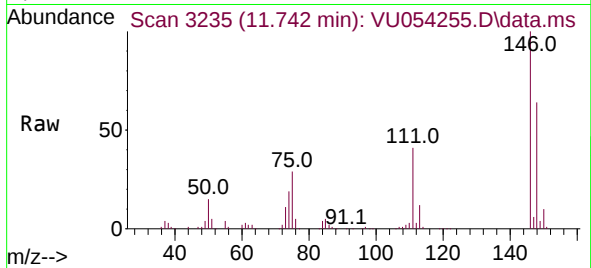




#64  
1,3-Dichlorobenzene  
Concen: 5.444 ug/L  
RT: 11.742 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

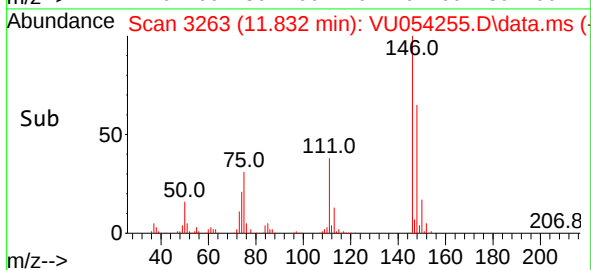
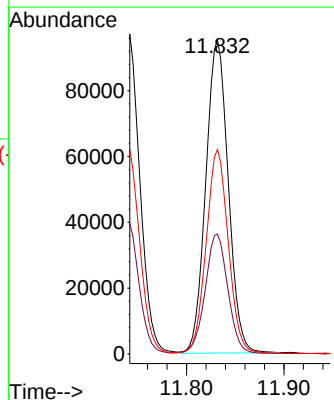
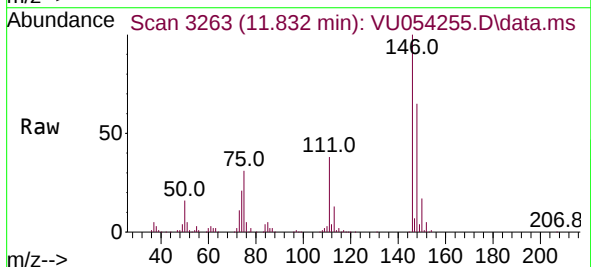
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

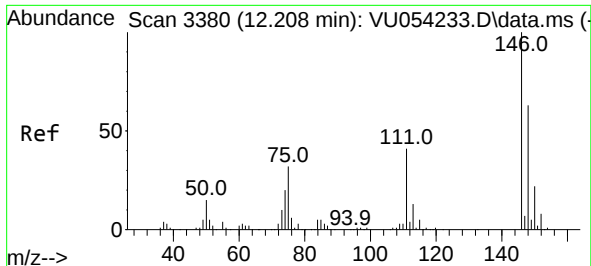
Tgt Ion:146 Resp: 155897  
Ion Ratio Lower Upper  
146 100  
111 40.9 27.8 51.6  
148 64.0 44.4 82.4



#65  
1,4-Dichlorobenzene  
Concen: 5.359 ug/L  
RT: 11.832 min Scan# 3263  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion:146 Resp: 152464  
Ion Ratio Lower Upper  
146 100  
111 38.1 26.6 49.4  
148 65.1 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 5.443 ug/L

RT: 12.208 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

Instrument :

MSVOA\_U

ClientSampleId :

VSTD005172

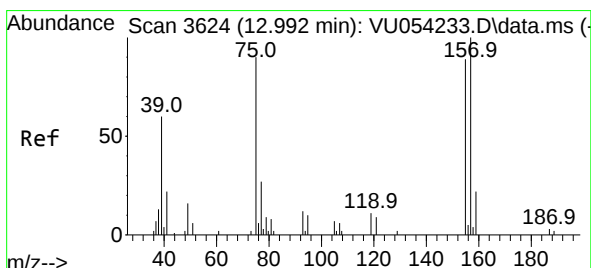
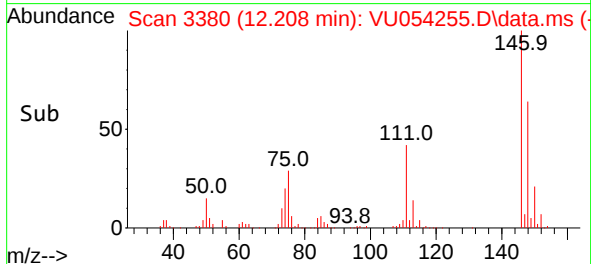
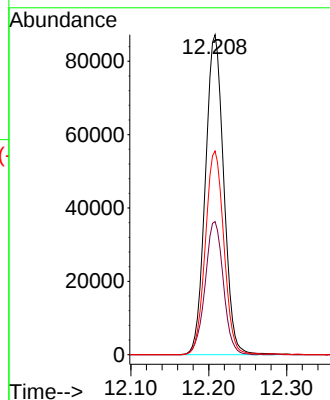
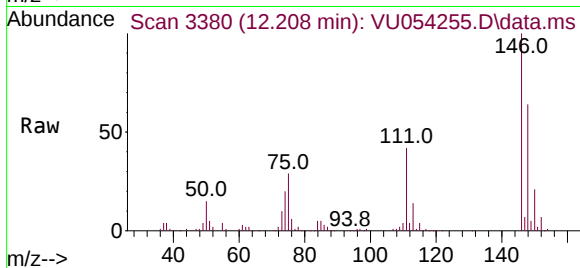
Tgt Ion:146 Resp: 143029

Ion Ratio Lower Upper

146 100

111 41.6 33.0 49.4

148 63.7 50.5 75.7



#68

1,2-Dibromo-3-chloropropane

Concen: 5.505 ug/L

RT: 12.989 min Scan# 3623

Delta R.T. -0.003 min

Lab File: VU054255.D

Acq: 22 May 2023 19:34

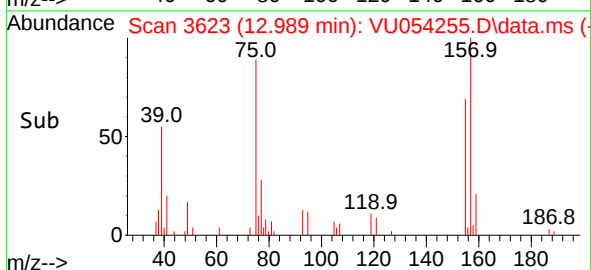
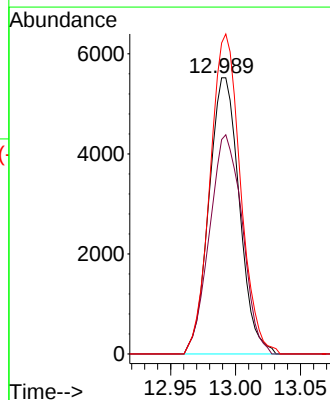
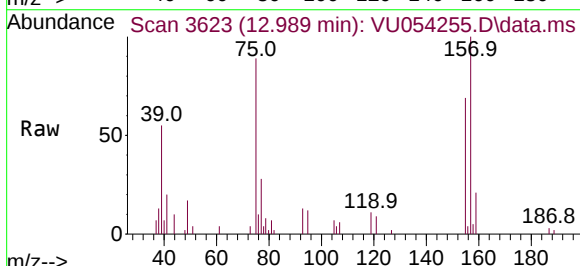
Tgt Ion: 75 Resp: 8972

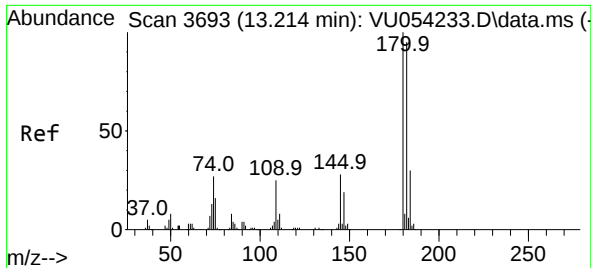
Ion Ratio Lower Upper

75 100

155 77.6 62.7 94.1

157 112.7 77.0 115.4

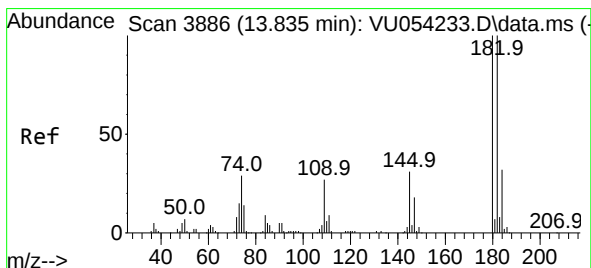
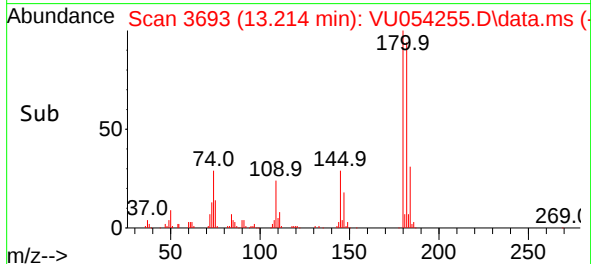
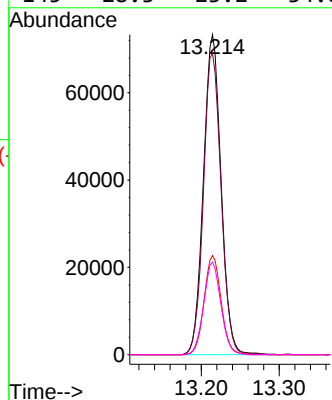
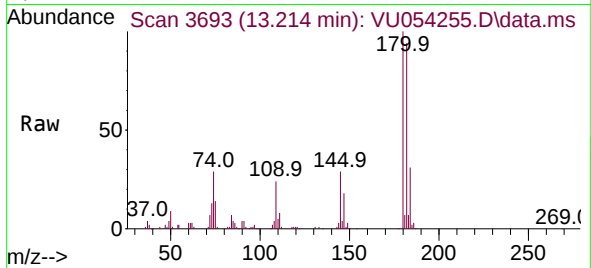




#69  
 1,3,5-Trichlorobenzene  
 Concen: 5.395 ug/L  
 RT: 13.214 min Scan# 3693  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

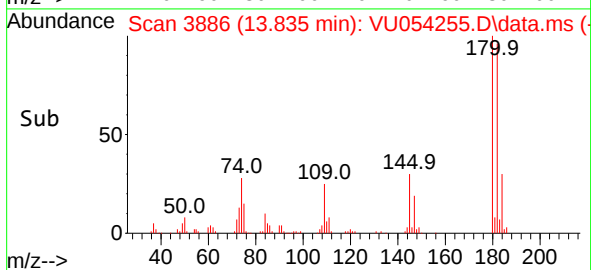
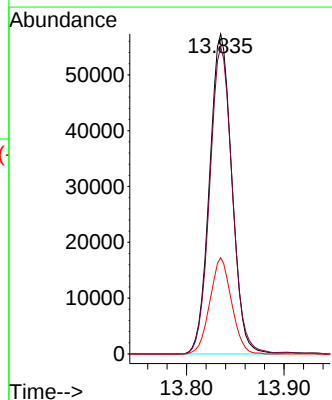
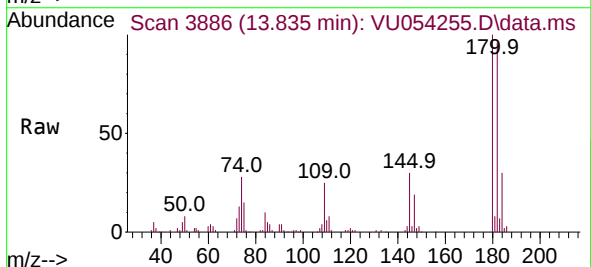
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD005172

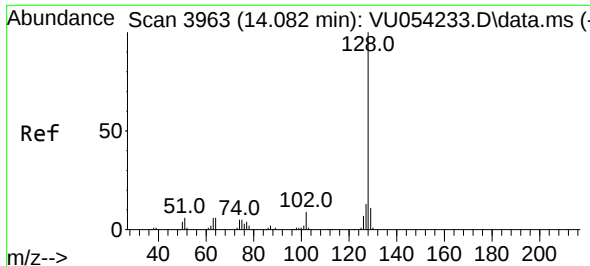
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 115271     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 94.3  | 76.1 114.1 |
| 184         | 29.8  | 24.5 36.7  |
| 145         | 28.3  | 23.2 34.8  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 5.163 ug/L  
 RT: 13.835 min Scan# 3886  
 Delta R.T. 0.000 min  
 Lab File: VU054255.D  
 Acq: 22 May 2023 19:34

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 91338      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.9  | 76.4 114.6 |
| 145         | 29.1  | 23.3 34.9  |

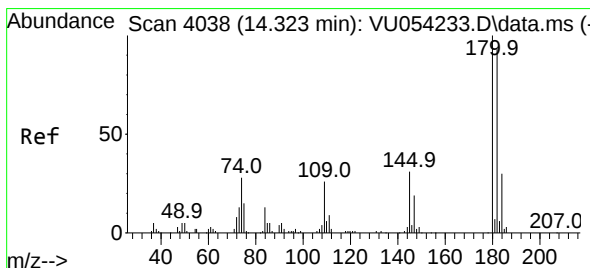
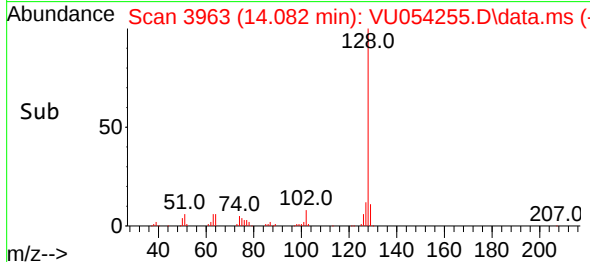
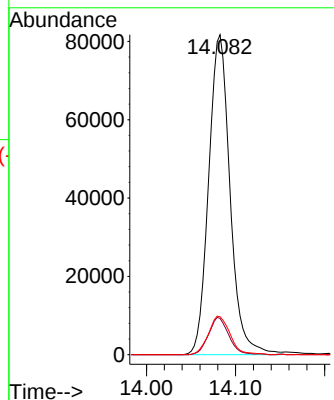
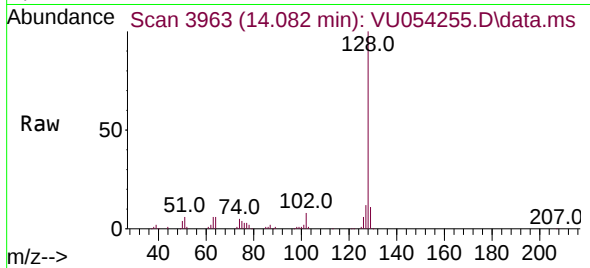




#71  
Naphthalene  
Concen: 5.325 ug/L  
RT: 14.082 min Scan# 3963  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD005172

Tgt Ion:128 Resp: 136260  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.0 13.6  
127 12.2 10.2 15.4



#72  
1,2,3-Trichlorobenzene  
Concen: 5.539 ug/L  
RT: 14.324 min Scan# 4038  
Delta R.T. 0.000 min  
Lab File: VU054255.D  
Acq: 22 May 2023 19:34

Tgt Ion:180 Resp: 82927  
Ion Ratio Lower Upper  
180 100  
182 94.4 76.4 114.6  
145 30.5 25.1 37.7

