

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U043023\  
 Data File : U054012.D  
 Acq On : 30 Apr 2023 01:29  
 Operator : JC/MD  
 Sample : VSTDCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050084

Quant Time: May 01 03:02:40 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon May 01 02:19:21 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 275360   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 256594   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806  | 152   | 141154   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 103462   | 49.680   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 99.360%  |
| 7) Chloroethane-d5            | 1.912   | 69    | 68760    | 50.298   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 100.600% |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 184201   | 49.868   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 99.740%  |
| 21) 2-Butanone-d5             | 4.623   | 46    | 119034   | 100.216  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 100.220% |
| 24) Chloroform-d              | 5.057   | 84    | 196130   | 51.277   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 102.560% |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 124176   | 50.564   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.120% |
| 32) Benzene-d6                | 5.723   | 84    | 384470   | 50.904   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.800% |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 121957   | 51.149   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 102.300% |
| 41) Toluene-d8                | 7.893   | 98    | 354301   | 51.958   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.920% |
| 43) trans-1,3-Dichloroprop... | 8.173   | 79    | 58841    | 49.866   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 99.740%  |
| 47) 2-Hexanone-d5             | 8.629   | 63    | 82644    | 96.771   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 96.770%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 156478   | 49.822   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 99.640%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189  | 152   | 144309   | 52.333   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.660% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 96406    | 48.526   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 89569    | 49.056   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.604   | 62    | 95356    | 49.101   | ug/L   | 97       |
| 6) Bromomethane               | 1.858   | 94    | 50188    | 46.360   | ug/L   | 98       |
| 8) Chloroethane               | 1.932   | 64    | 51478    | 48.644   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 149202   | 48.414   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 87993    | 47.742   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 78850    | 49.366   | ug/L   | 97       |
| 13) Acetone                   | 2.636   | 43    | 78098    | 66.989   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.790   | 76    | 170135   | 47.992   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.948   | 43    | 90797    | 49.731   | ug/L   | 100      |
| 16) Methylene chloride        | 3.044   | 84    | 96578    | 47.942   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 82067    | 50.247   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.359   | 73    | 299222   | 49.833   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 174555   | 49.777   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.661   | 96    | 99905    | 49.777   | ug/L   | 98       |
| 22) 2-Butanone                | 4.703   | 43    | 123516   | 89.738   | ug/L   | 98       |
| 23) Bromochloromethane        | 4.970   | 128   | 52013    | 49.986   | ug/L   | 97       |
| 25) Chloroform                | 5.083   | 83    | 185060   | 50.010   | ug/L   | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU043023\  
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 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

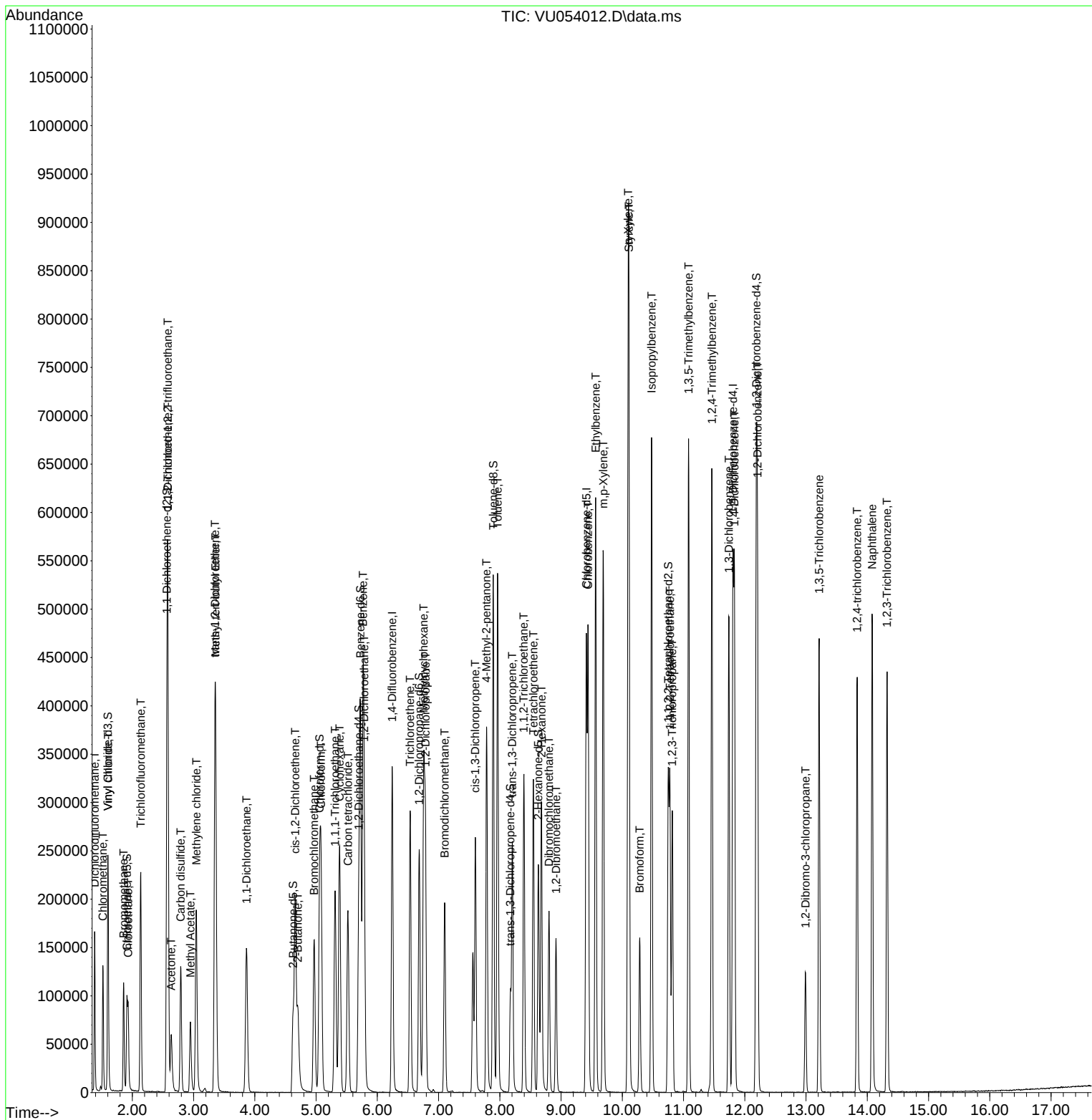
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050084

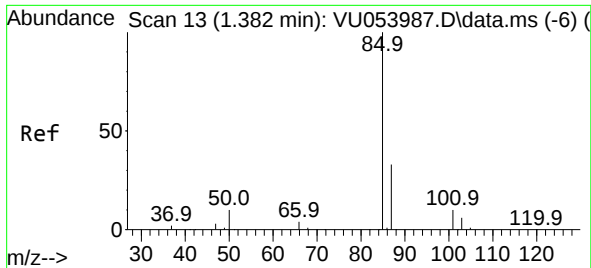
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon May 01 02:19:21 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.787  | 62   | 140717   | 49.438 | ug/L  | 99       |
| 29) Cyclohexane               | 5.385  | 56   | 130593   | 49.245 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 158465   | 49.547 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 133155   | 48.801 | ug/L  | 98       |
| 33) Benzene                   | 5.768  | 78   | 373583   | 50.020 | ug/L  | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 97864    | 49.370 | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.758  | 83   | 133430   | 47.995 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 104481   | 49.447 | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.099  | 83   | 130147   | 48.889 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.600  | 75   | 159353   | 48.209 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.784  | 43   | 242848   | 98.621 | ug/L  | 99       |
| 42) Toluene                   | 7.964  | 91   | 389336   | 50.074 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 150041   | 47.763 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.391  | 97   | 102300   | 50.019 | ug/L  | 96       |
| 46) Tetrachloroethene         | 8.549  | 164  | 75755    | 48.171 | ug/L  | 100      |
| 48) 2-Hexanone                | 8.681  | 43   | 186310   | 95.471 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.803  | 129  | 98200    | 48.726 | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 103402   | 49.810 | ug/L  | 100      |
| 51) Chlorobenzene             | 9.443  | 112  | 253059   | 48.661 | ug/L  | 99       |
| 52) Ethylbenzene              | 9.565  | 91   | 433499   | 49.538 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.690  | 106  | 162707   | 49.515 | ug/L  | 95       |
| 54) o-Xylene                  | 10.095 | 106  | 161545   | 50.251 | ug/L  | 100      |
| 55) Styrene                   | 10.108 | 104  | 278458   | 50.500 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 154629   | 47.995 | ug/L  | 98       |
| 59) Bromoform                 | 10.285 | 173  | 73303    | 46.386 | ug/L  | 100      |
| 60) 1,2,3-Trichloropropane    | 10.816 | 75   | 124580   | 47.515 | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.478 | 105  | 430434   | 48.308 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 357350   | 48.942 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 353192   | 49.076 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 202136   | 46.385 | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 207032   | 46.648 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 210212   | 47.796 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 31485    | 47.070 | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 148108   | 46.902 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 132441   | 46.263 | ug/L  | 100      |
| 71) Naphthalene               | 14.079 | 128  | 394682   | 47.531 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 134940   | 47.384 | ug/L  | 98       |

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

Quant Time: May 01 03:02:40 2023  
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QLast Update : Mon May 01 02:19:21 2023  
Response via : Initial Calibration

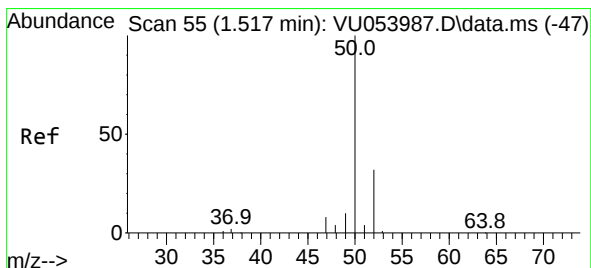
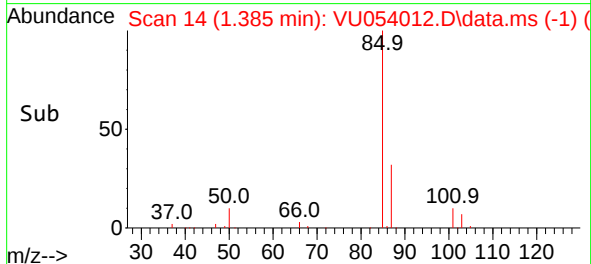
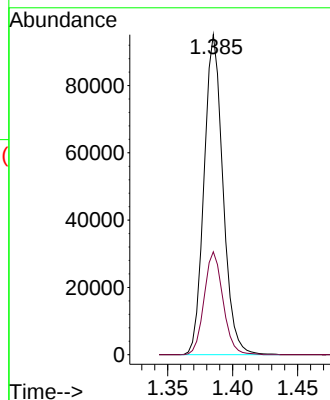
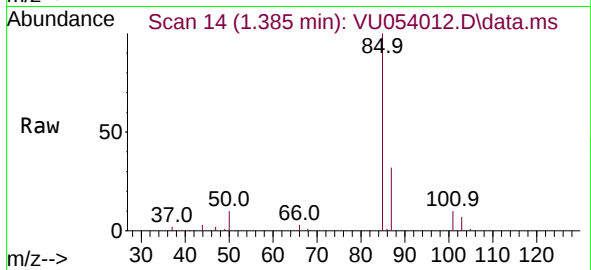




#2  
 Dichlorodifluoromethane  
 Concen: 48.526 ug/L  
 RT: 1.385 min Scan# 14  
 Delta R.T. 0.003 min  
 Lab File: VU054012.D  
 Acq: 30 Apr 2023 01:29

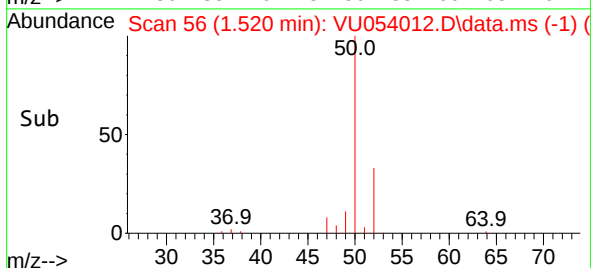
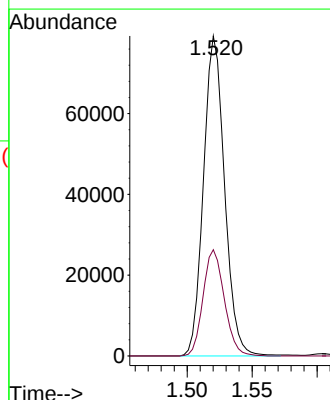
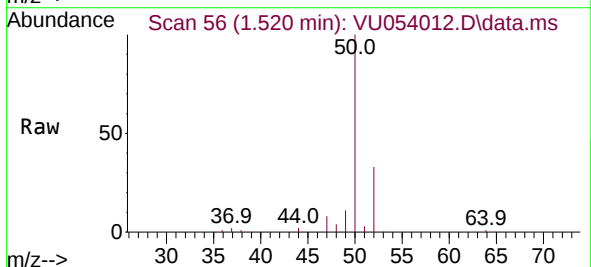
Instrument :  
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 ClientSampleId :  
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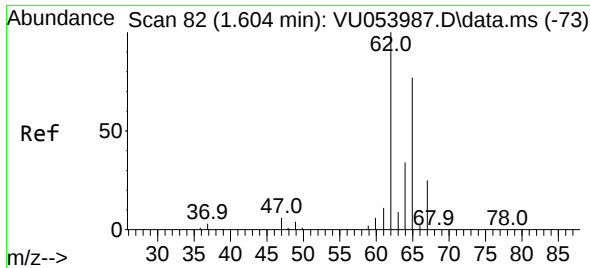
Tgt Ion: 85 Resp: 96406  
 Ion Ratio Lower Upper  
 85 100  
 87 32.0 26.0 39.0



#3  
 Chloromethane  
 Concen: 49.056 ug/L  
 RT: 1.520 min Scan# 56  
 Delta R.T. 0.003 min  
 Lab File: VU054012.D  
 Acq: 30 Apr 2023 01:29

Tgt Ion: 50 Resp: 89569  
 Ion Ratio Lower Upper  
 50 100  
 52 33.2 22.4 41.6

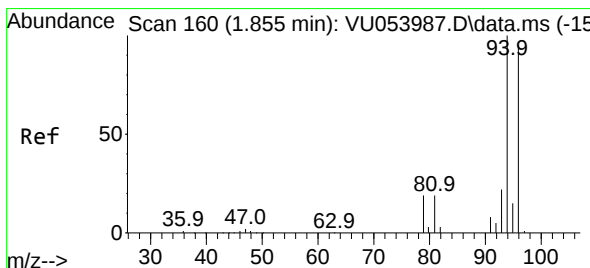
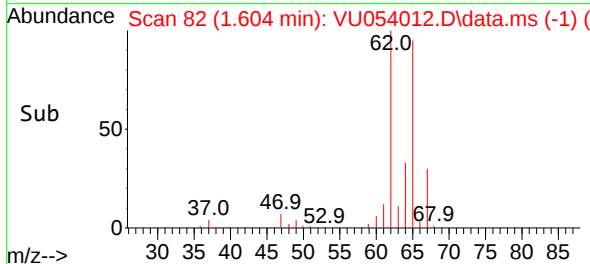
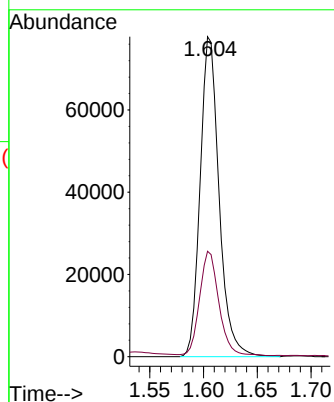
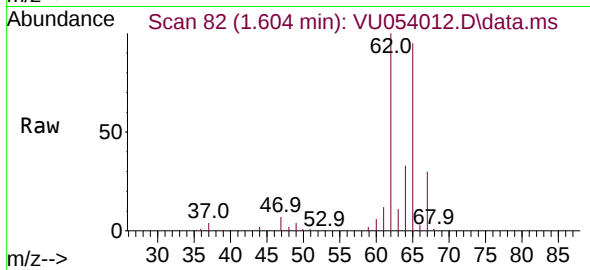




#5  
 Vinyl chloride  
 Concen: 49.101 ug/L  
 RT: 1.604 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: VU054012.D  
 Acq: 30 Apr 2023 01:29

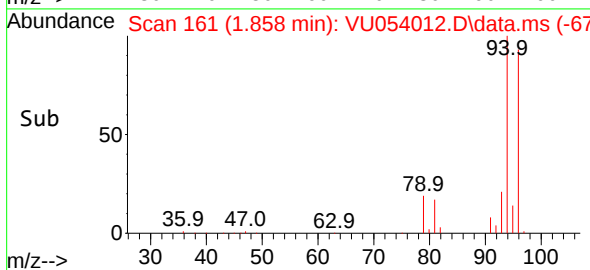
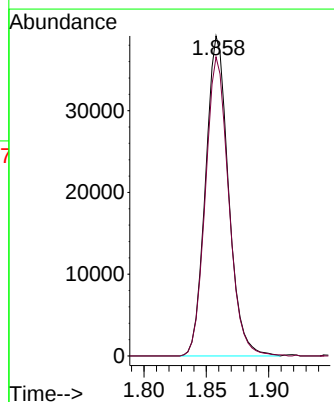
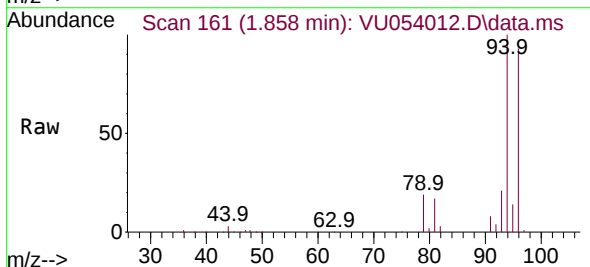
Instrument :  
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 ClientSampleId :  
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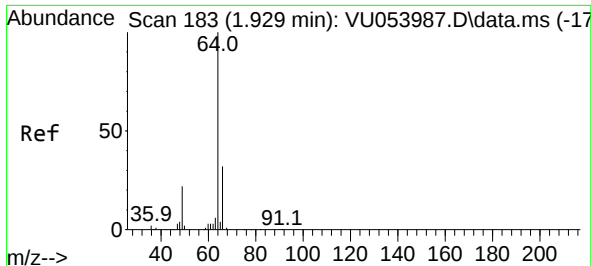
Tgt Ion: 62 Resp: 95356  
 Ion Ratio Lower Upper  
 62 100  
 64 32.9 24.1 44.7



#6  
 Bromomethane  
 Concen: 46.360 ug/L  
 RT: 1.858 min Scan# 161  
 Delta R.T. 0.003 min  
 Lab File: VU054012.D  
 Acq: 30 Apr 2023 01:29

Tgt Ion: 94 Resp: 50188  
 Ion Ratio Lower Upper  
 94 100  
 96 93.4 63.9 118.7





#8

Chloroethane

Concen: 48.644 ug/L

RT: 1.932 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

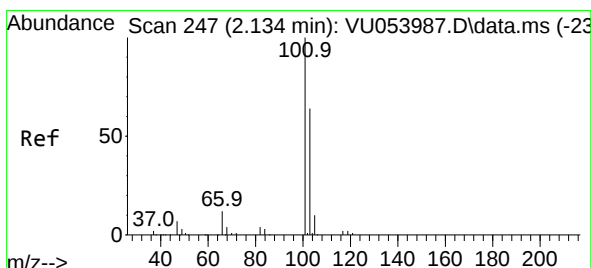
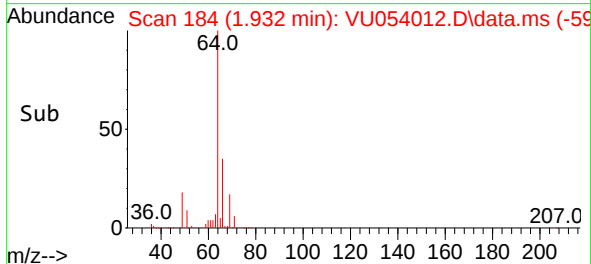
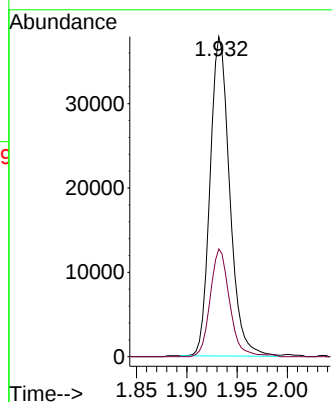
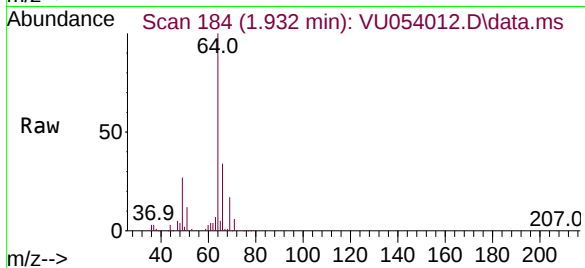
VSTD050084

Tgt Ion: 64 Resp: 51478

Ion Ratio Lower Upper

64 100

66 33.7 23.1 42.9



#9

Trichlorofluoromethane

Concen: 48.414 ug/L

RT: 2.137 min Scan# 248

Delta R.T. 0.003 min

Lab File: VU054012.D

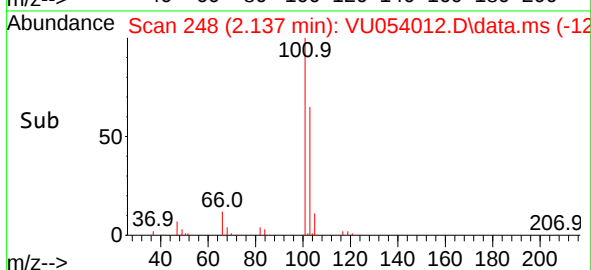
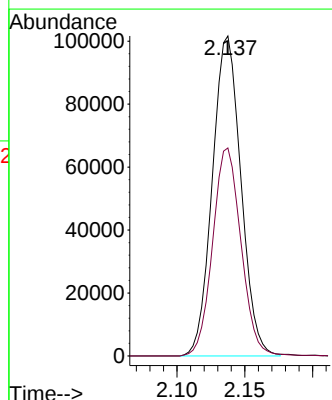
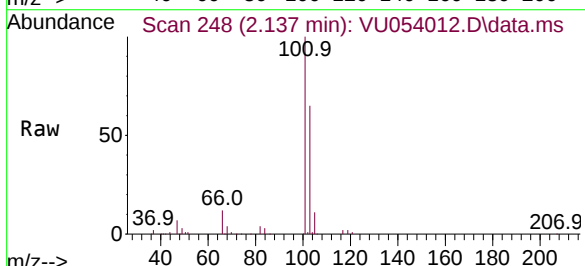
Acq: 30 Apr 2023 01:29

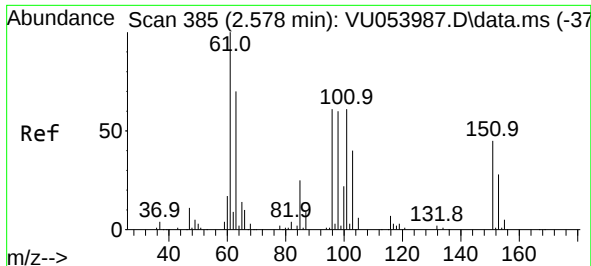
Tgt Ion:101 Resp: 149202

Ion Ratio Lower Upper

101 100

103 64.6 51.0 76.4

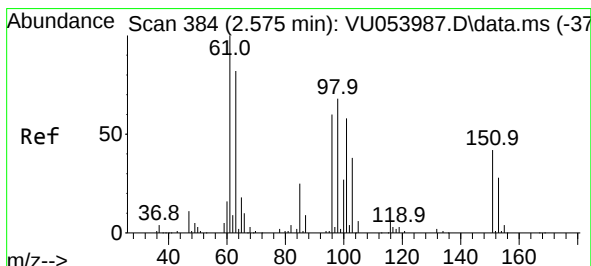
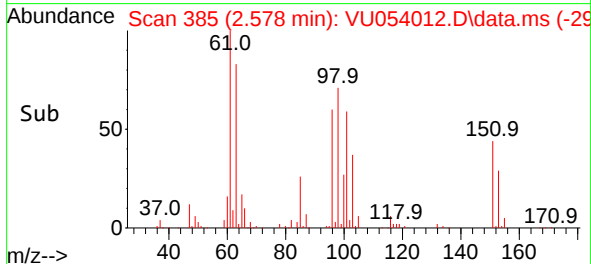
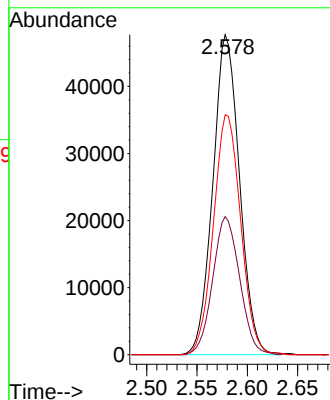
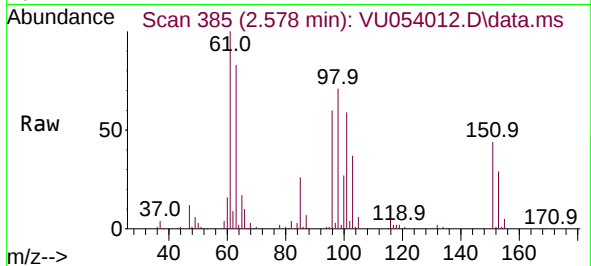




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 47.742 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

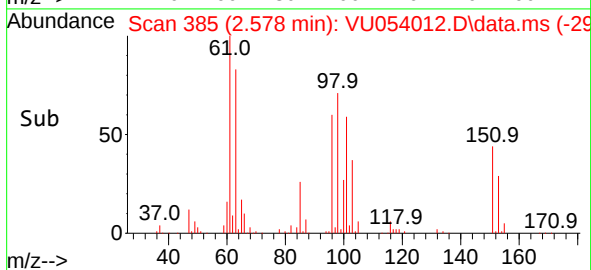
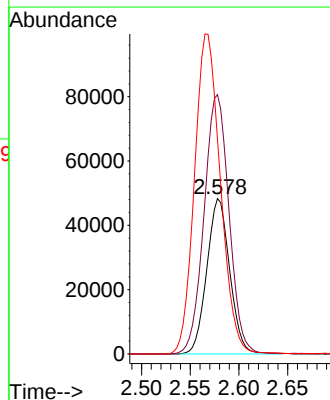
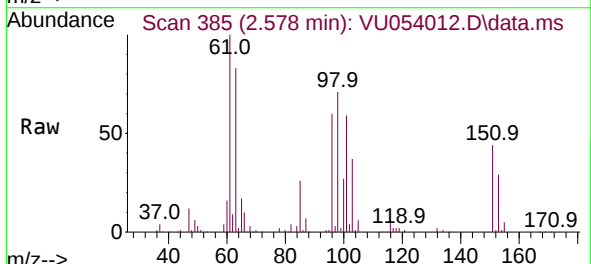
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

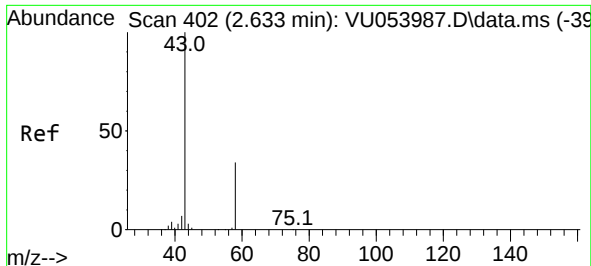
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Ion Ratio Lower Upper  
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151 76.7 60.3 90.5



#12  
1,1-Dichloroethene  
Concen: 49.366 ug/L  
RT: 2.578 min Scan# 385  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 96 Resp: 78850  
Ion Ratio Lower Upper  
96 100  
61 167.0 118.3 219.7  
63 138.2 92.3 171.5





#13

Acetone

Concen: 66.989 ug/L

RT: 2.636 min Scan# 402

Delta R.T. 0.003 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

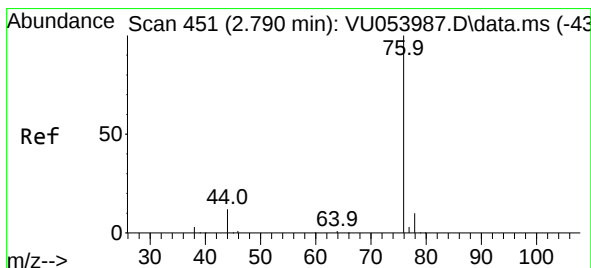
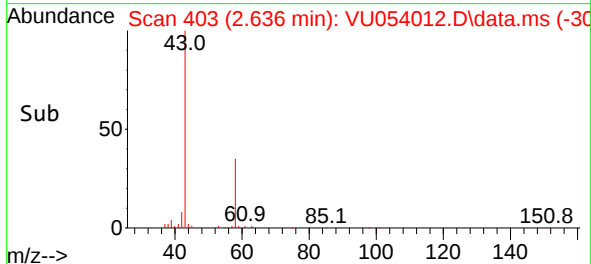
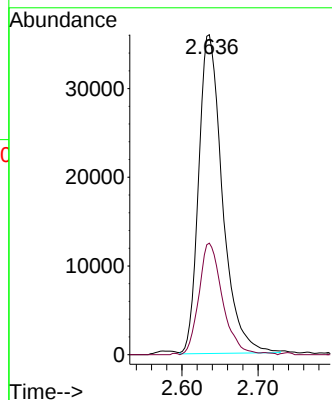
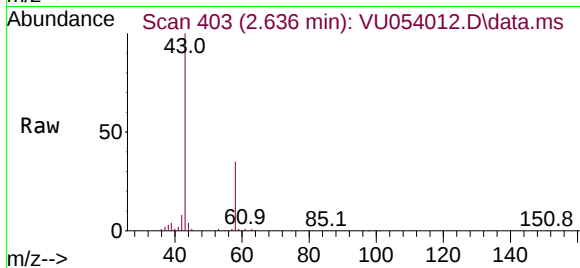
VSTD050084

Tgt Ion: 43 Resp: 78098

Ion Ratio Lower Upper

43 100

58 34.5 0.0 67.4



#14

Carbon disulfide

Concen: 47.992 ug/L

RT: 2.790 min Scan# 451

Delta R.T. -0.000 min

Lab File: VU054012.D

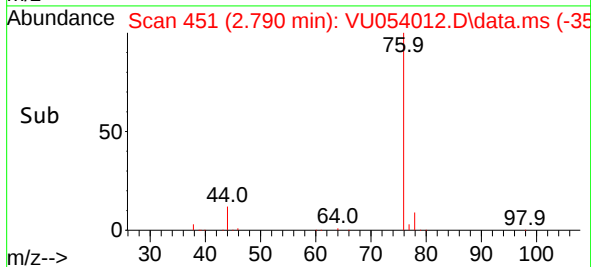
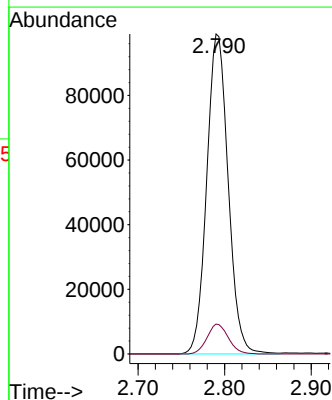
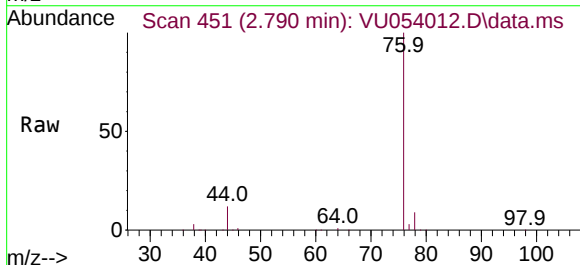
Acq: 30 Apr 2023 01:29

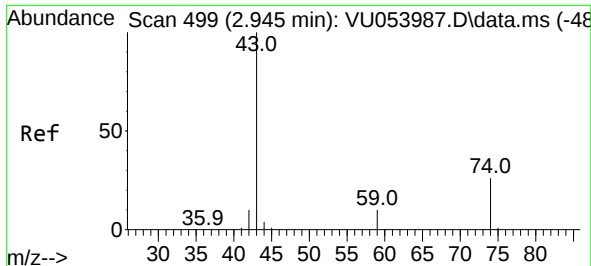
Tgt Ion: 76 Resp: 170135

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4

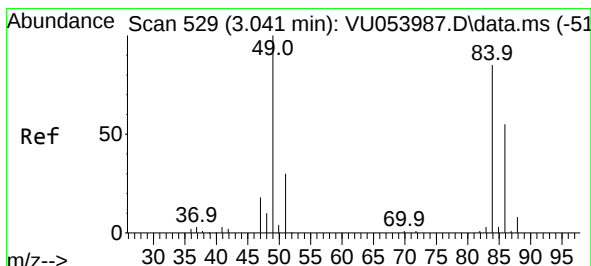
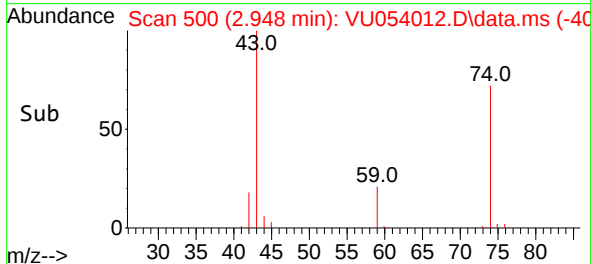
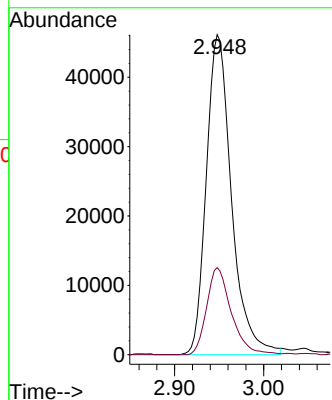
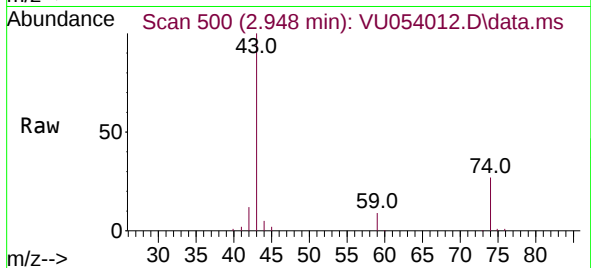




#15  
Methyl Acetate  
Concen: 49.731 ug/L  
RT: 2.948 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

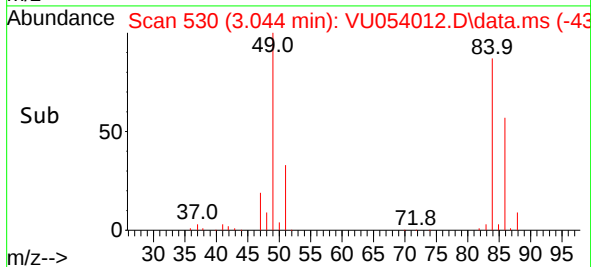
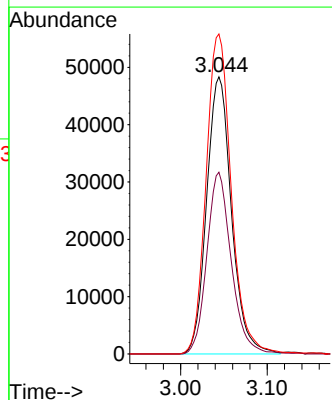
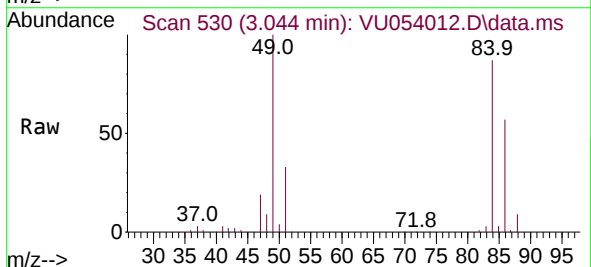
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

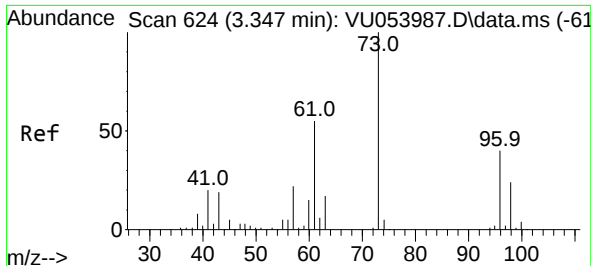
Tgt Ion: 43 Resp: 90797  
Ion Ratio Lower Upper  
43 100  
74 26.5 21.2 31.8



#16  
Methylene chloride  
Concen: 47.942 ug/L  
RT: 3.044 min Scan# 530  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 84 Resp: 96578  
Ion Ratio Lower Upper  
84 100  
86 65.6 45.8 85.2  
49 115.5 83.0 154.2

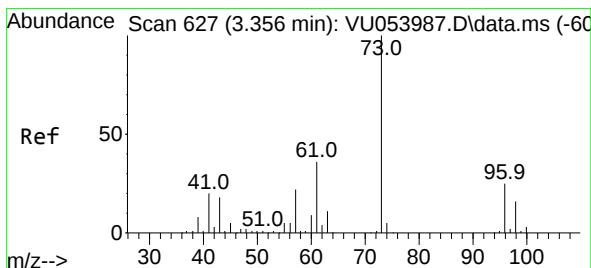
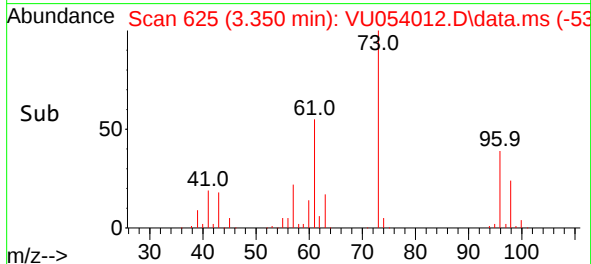
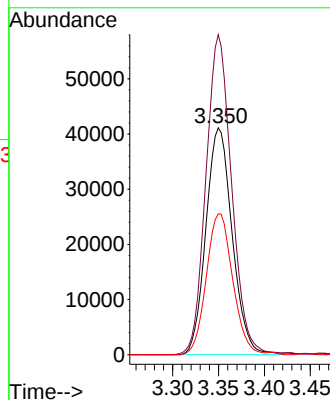
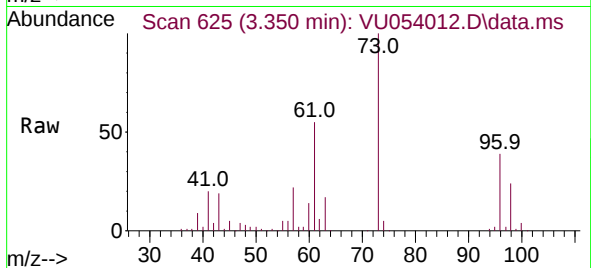




#17  
trans-1,2-Dichloroethene  
Concen: 50.247 ug/L  
RT: 3.350 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

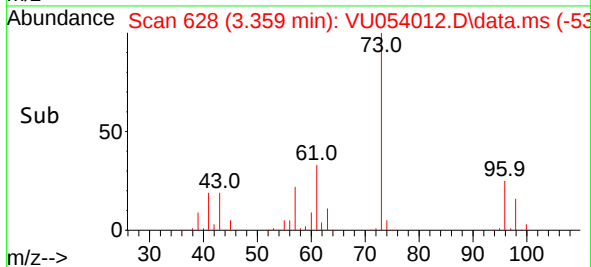
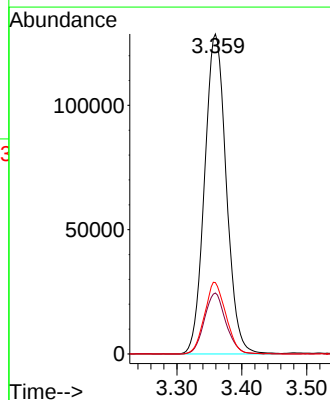
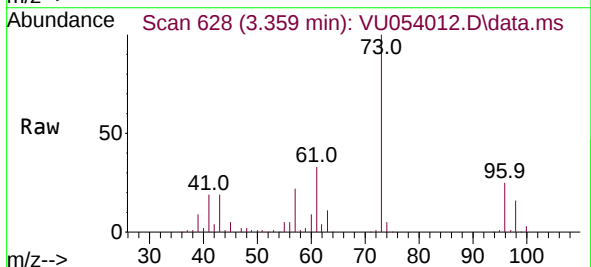
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

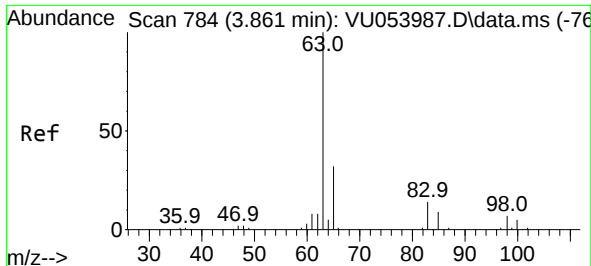
Tgt Ion: 96 Resp: 82067  
Ion Ratio Lower Upper  
96 100  
61 141.1 97.5 181.1  
98 62.1 44.8 83.2



#18  
Methyl tert-butyl Ether  
Concen: 49.833 ug/L  
RT: 3.359 min Scan# 628  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 73 Resp: 299222  
Ion Ratio Lower Upper  
73 100  
43 18.8 15.4 23.0  
57 22.0 18.0 27.0

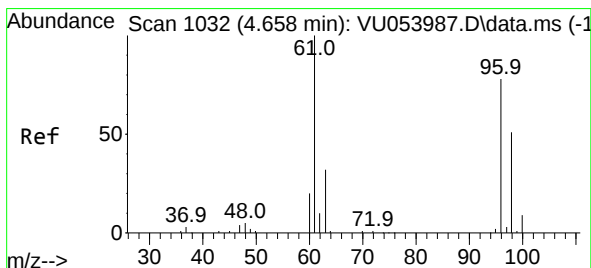
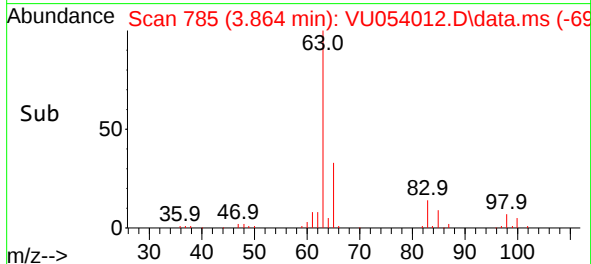
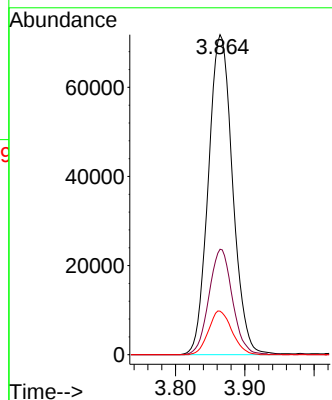
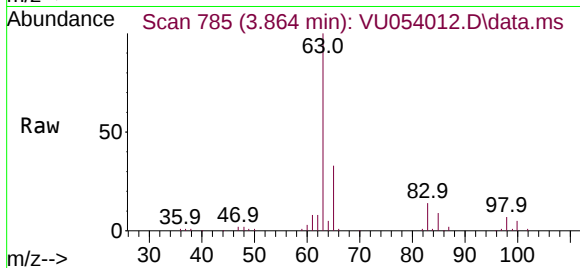




#19  
1,1-Dichloroethane  
Concen: 49.777 ug/L  
RT: 3.864 min Scan# 71  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

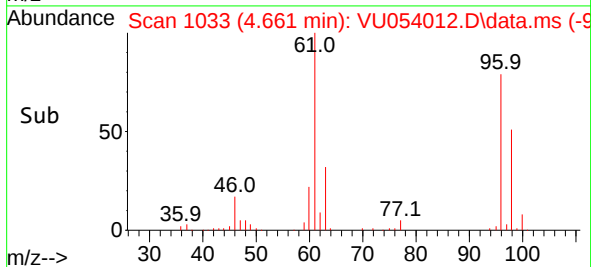
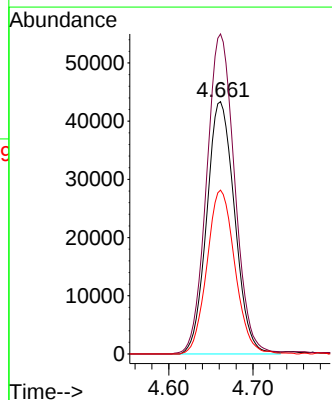
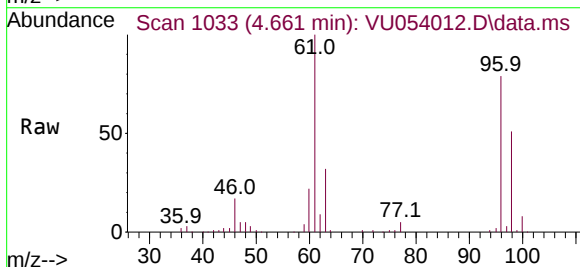
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

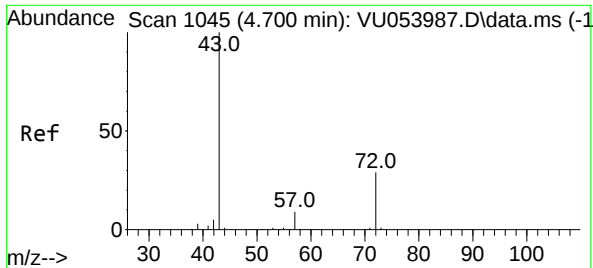
Tgt Ion: 63 Resp: 174555  
Ion Ratio Lower Upper  
63 100  
65 33.0 22.0 40.8  
83 13.6 9.9 18.3



#20  
cis-1,2-Dichloroethene  
Concen: 49.777 ug/L  
RT: 4.661 min Scan# 1033  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 96 Resp: 99905  
Ion Ratio Lower Upper  
96 100  
61 126.8 90.9 168.9  
98 64.9 45.7 84.9

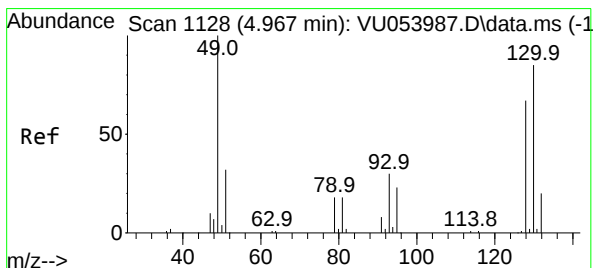
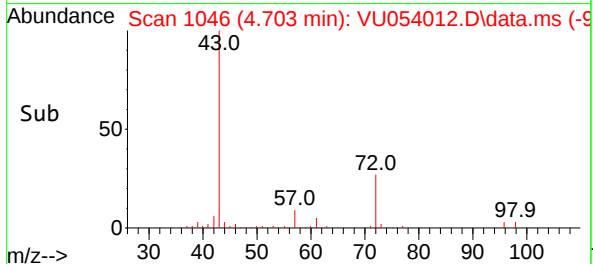
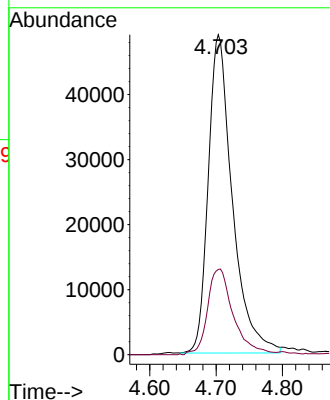
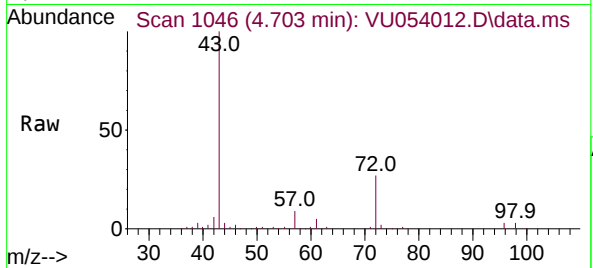




#22  
2-Butanone  
Concen: 89.738 ug/L  
RT: 4.703 min Scan# 1129  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

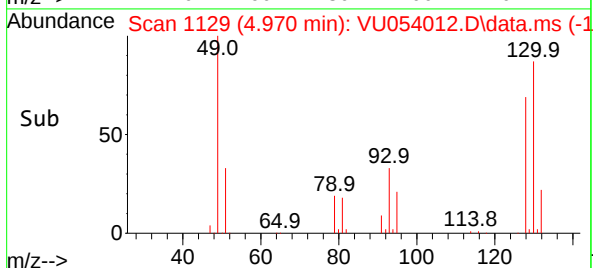
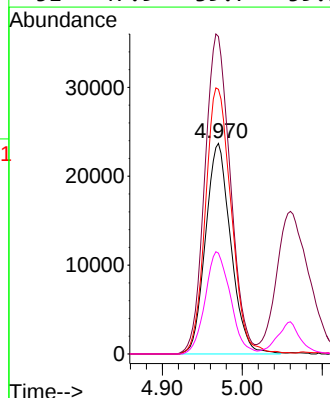
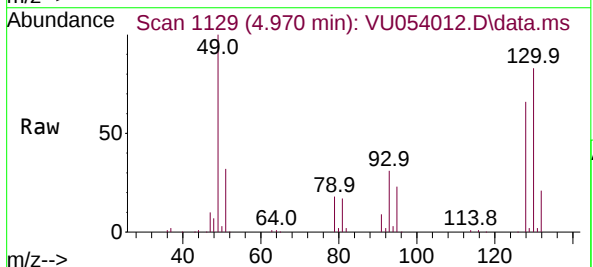
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

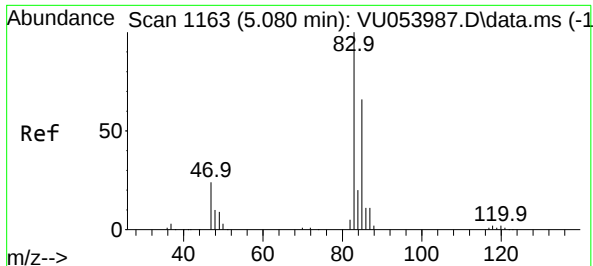
Tgt Ion: 43 Resp: 123516  
Ion Ratio Lower Upper  
43 100  
72 28.8 14.0 41.9



#23  
Bromochloromethane  
Concen: 49.986 ug/L  
RT: 4.970 min Scan# 1129  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion:128 Resp: 52013  
Ion Ratio Lower Upper  
128 100  
49 150.7 107.5 199.7  
130 125.6 91.0 169.0  
51 47.9 39.7 59.5





#25

Chloroform

Concen: 50.010 ug/L

RT: 5.083 min Scan# 1163

Delta R.T. 0.003 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

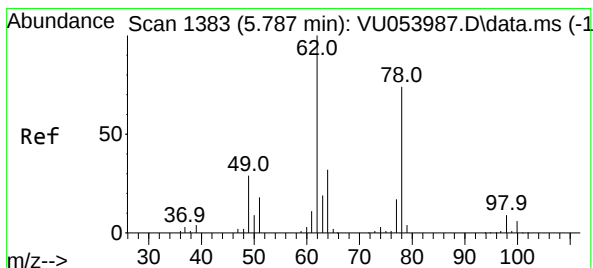
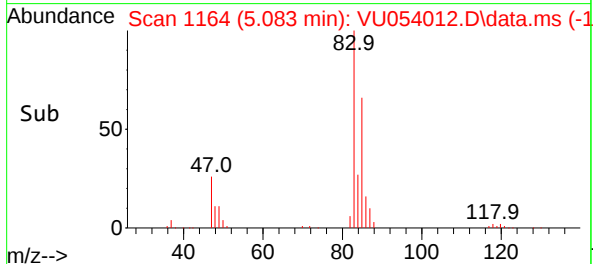
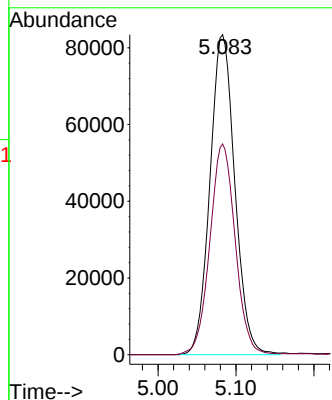
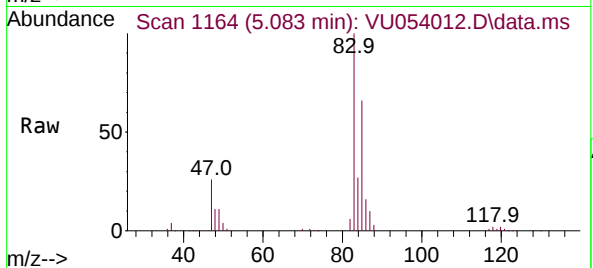
VSTD050084

Tgt Ion: 83 Resp: 185060

Ion Ratio Lower Upper

83 100

85 65.9 45.2 84.0



#27

1,2-Dichloroethane

Concen: 49.438 ug/L

RT: 5.787 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VU054012.D

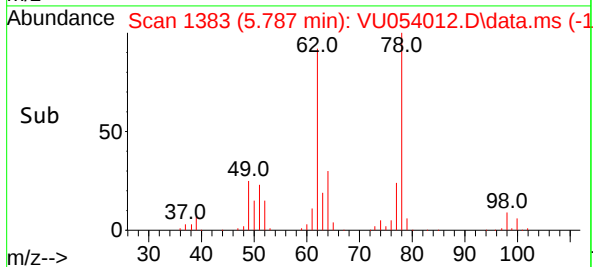
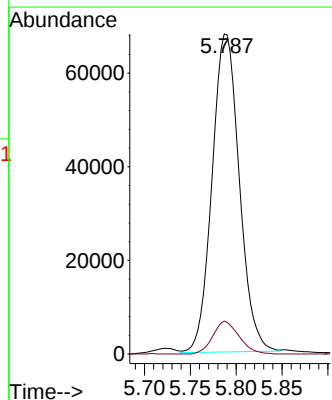
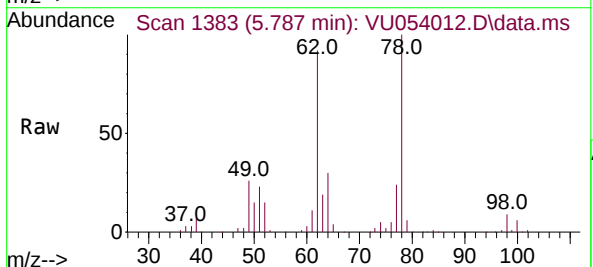
Acq: 30 Apr 2023 01:29

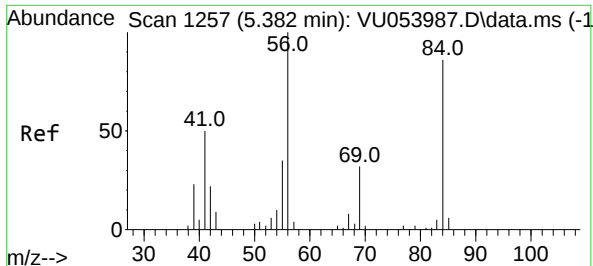
Tgt Ion: 62 Resp: 140717

Ion Ratio Lower Upper

62 100

98 10.2 8.0 12.0





#29

Cyclohexane

Concen: 49.245 ug/L

RT: 5.385 min Scan# 1257

Delta R.T. 0.003 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050084

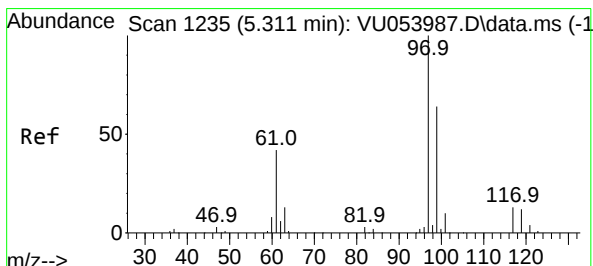
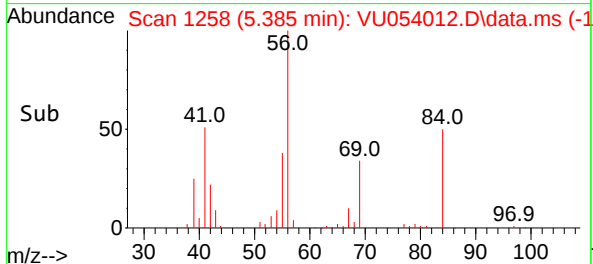
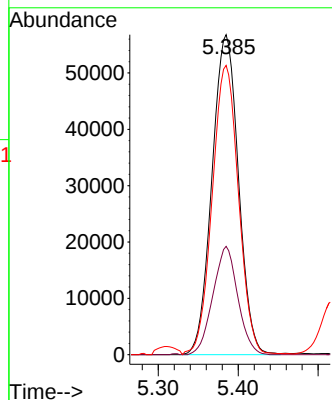
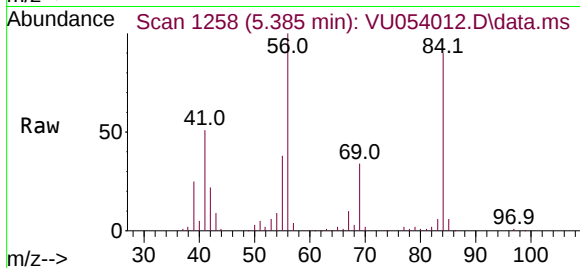
Tgt Ion: 56 Resp: 130593

Ion Ratio Lower Upper

56 100

69 31.7 25.8 38.6

84 89.7 73.6 110.4



#30

1,1,1-Trichloroethane

Concen: 49.547 ug/L

RT: 5.311 min Scan# 1235

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

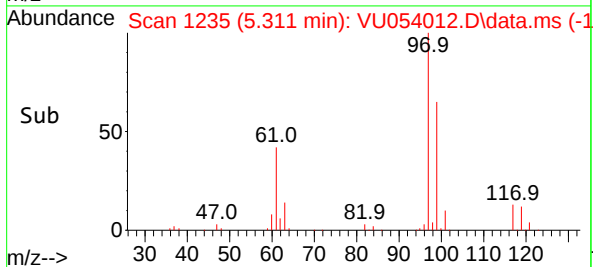
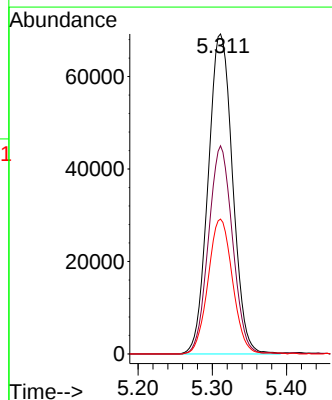
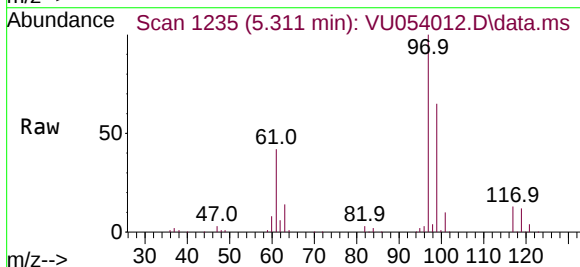
Tgt Ion: 97 Resp: 158465

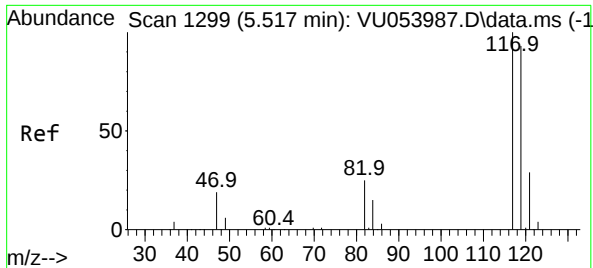
Ion Ratio Lower Upper

97 100

99 63.8 51.2 76.8

61 42.0 34.2 51.4

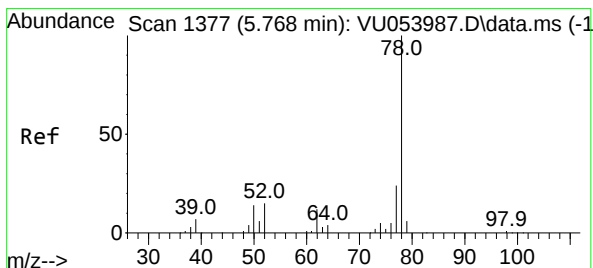
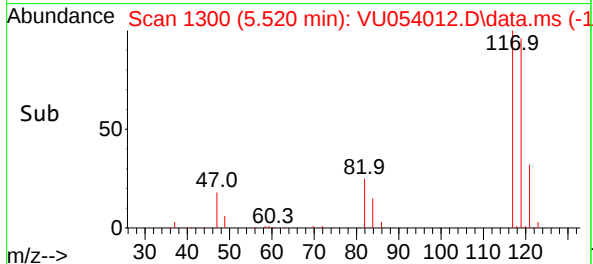
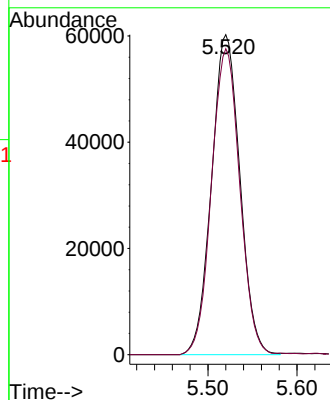
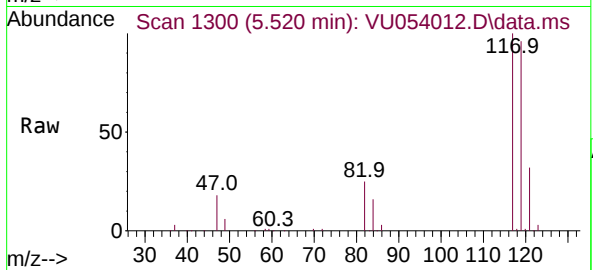




#31  
Carbon tetrachloride  
Concen: 48.801 ug/L  
RT: 5.520 min Scan# 117  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

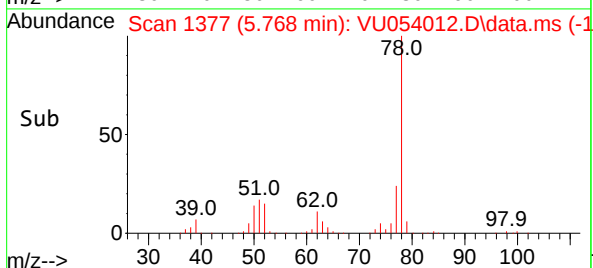
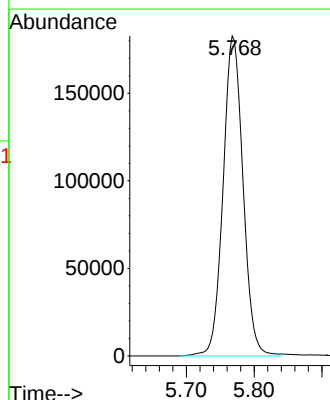
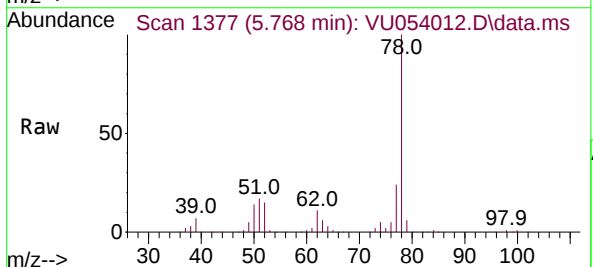
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

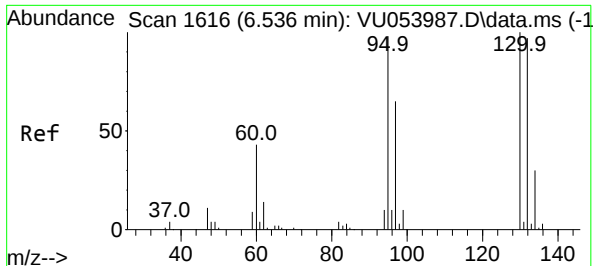
Tgt Ion:117 Resp: 133155  
Ion Ratio Lower Upper  
117 100  
119 95.4 77.8 116.6



#33  
Benzene  
Concen: 50.020 ug/L  
RT: 5.768 min Scan# 1377  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 78 Resp: 373583





#34

Trichloroethene

Concen: 49.370 ug/L

RT: 6.536 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050084

Tgt Ion: 95 Resp: 97864

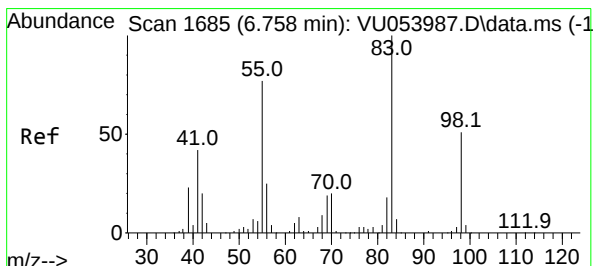
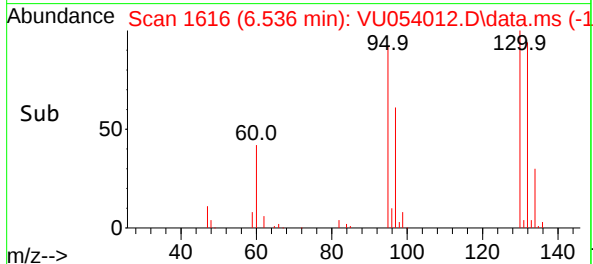
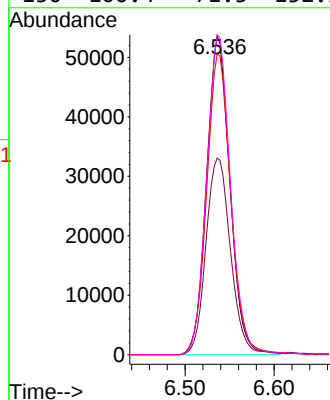
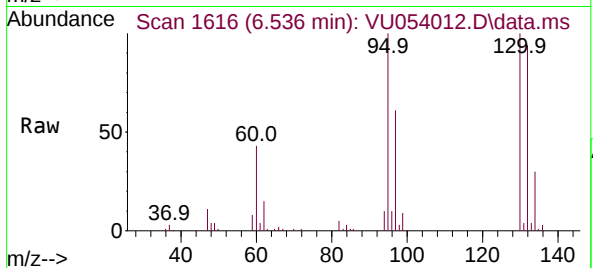
Ion Ratio Lower Upper

95 100

97 61.7 46.5 86.3

132 94.5 67.8 126.0

130 100.4 71.3 132.3



#35

Methylcyclohexane

Concen: 47.995 ug/L

RT: 6.758 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

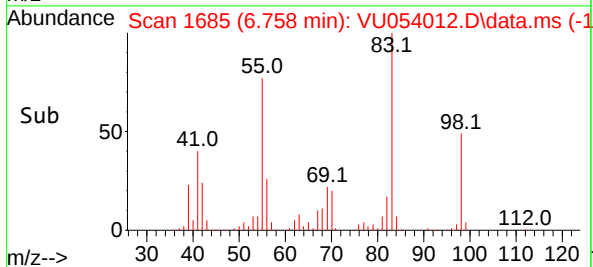
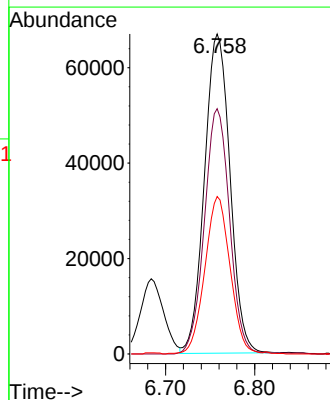
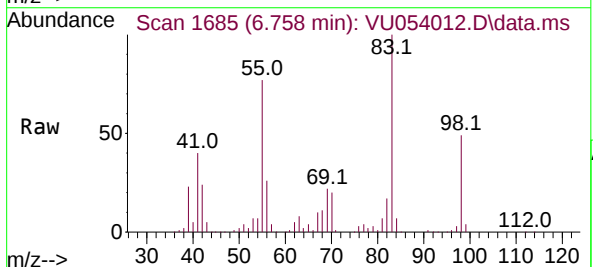
Tgt Ion: 83 Resp: 133430

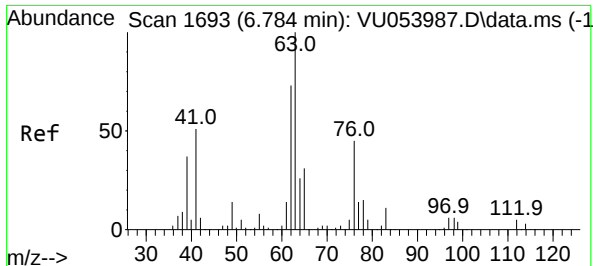
Ion Ratio Lower Upper

83 100

55 75.7 61.8 92.6

98 48.4 38.4 57.6





#37

1,2-Dichloropropane

Concen: 49.447 ug/L

RT: 6.787 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

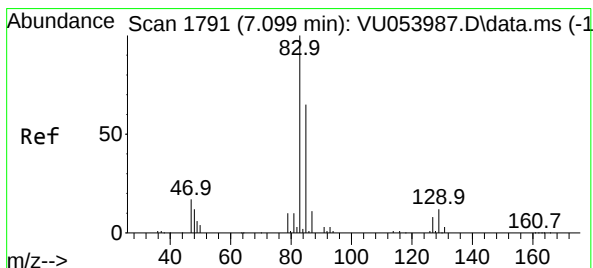
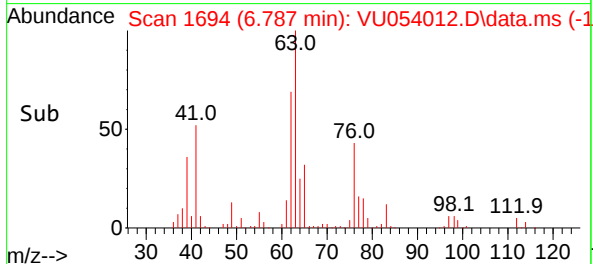
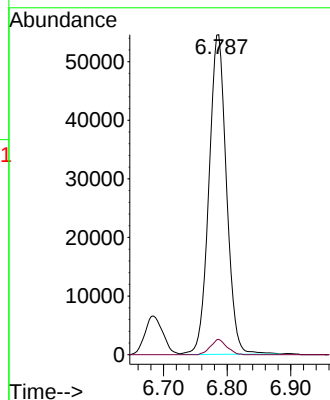
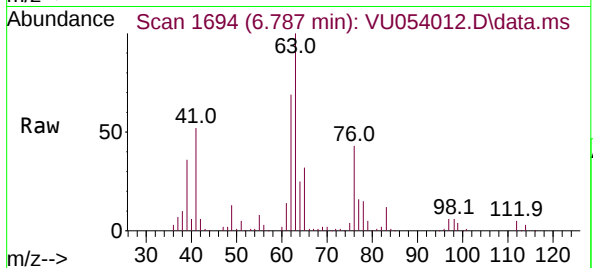
VSTD050084

Tgt Ion: 63 Resp: 104481

Ion Ratio Lower Upper

63 100

112 4.4 3.4 5.0



#38

Bromodichloromethane

Concen: 48.889 ug/L

RT: 7.099 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

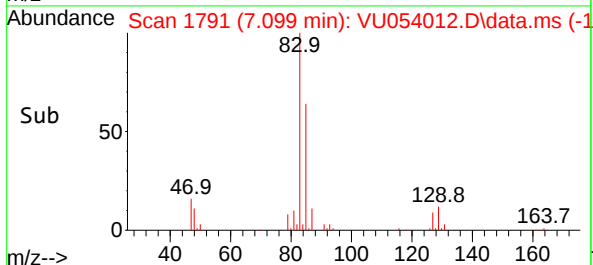
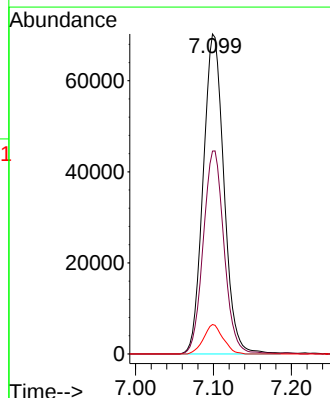
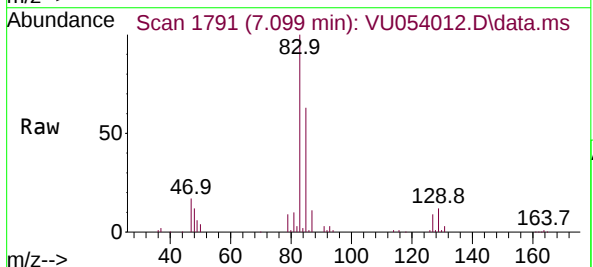
Tgt Ion: 83 Resp: 130147

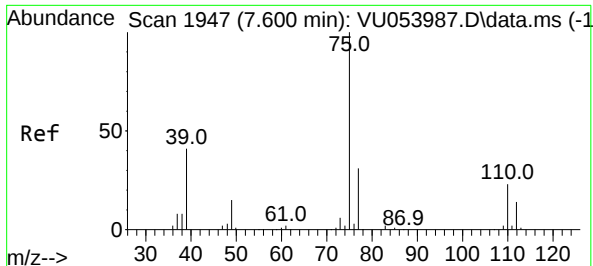
Ion Ratio Lower Upper

83 100

85 63.4 45.0 83.6

127 9.2 7.1 10.7





#39

cis-1,3-Dichloropropene

Concen: 48.209 ug/L

RT: 7.600 min Scan# 1947

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

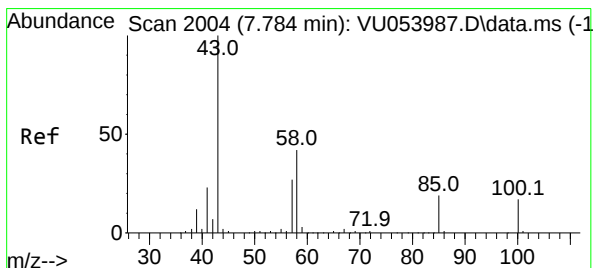
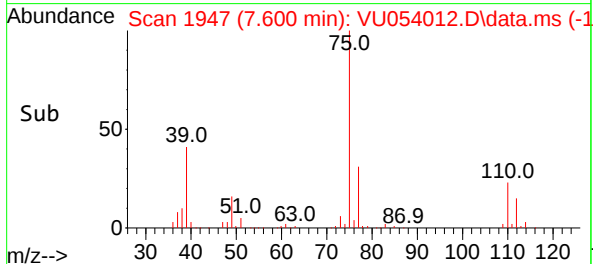
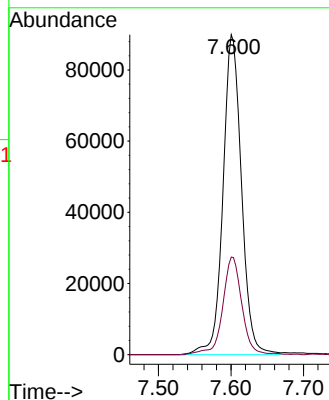
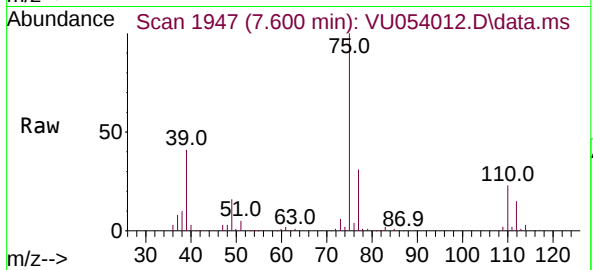
VSTD050084

Tgt Ion: 75 Resp: 159353

Ion Ratio Lower Upper

75 100

77 30.5 21.1 39.1



#40

4-Methyl-2-pentanone

Concen: 98.621 ug/L

RT: 7.784 min Scan# 2004

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

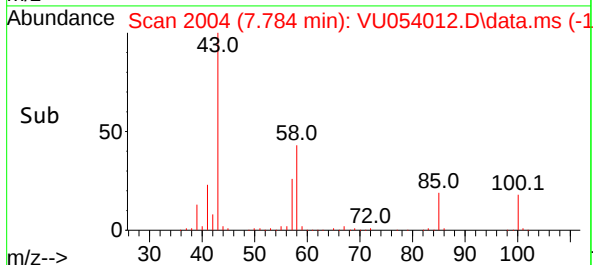
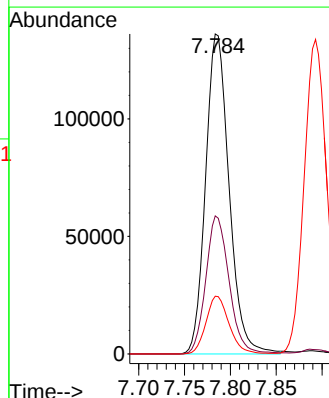
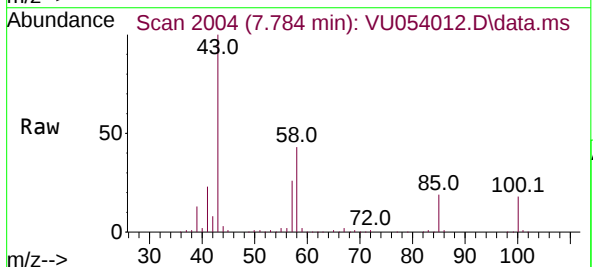
Tgt Ion: 43 Resp: 242848

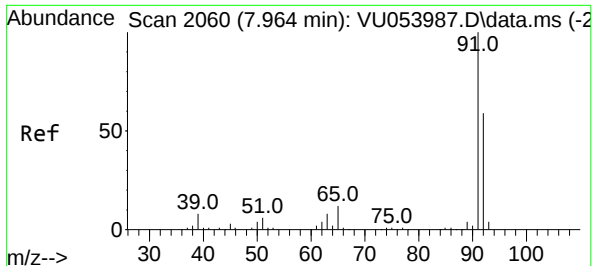
Ion Ratio Lower Upper

43 100

58 42.9 34.5 51.7

100 17.8 13.8 20.6





#42

Toluene

Concen: 50.074 ug/L

RT: 7.964 min Scan# 2060

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

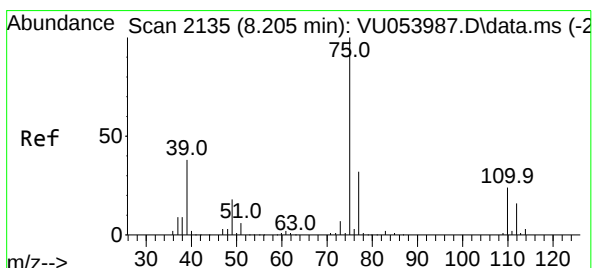
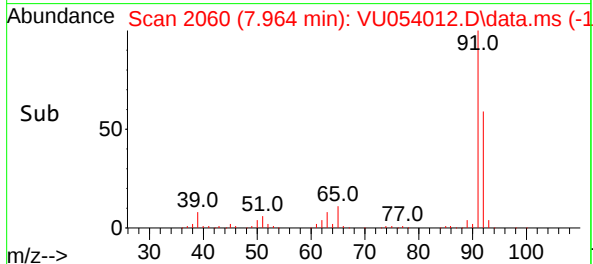
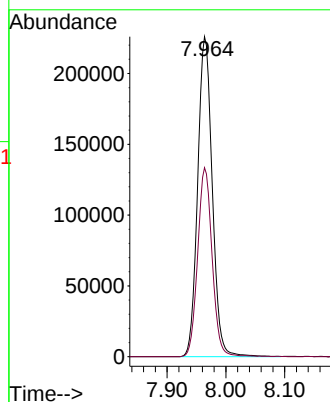
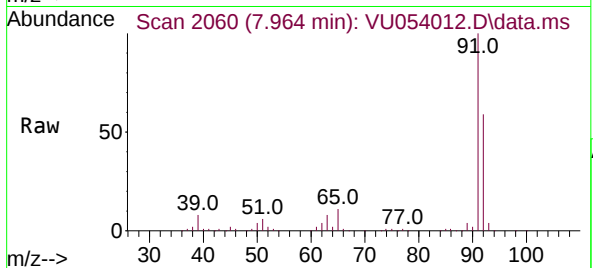
VSTD050084

Tgt Ion: 91 Resp: 389336

Ion Ratio Lower Upper

91 100

92 59.0 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 47.763 ug/L

RT: 8.205 min Scan# 2135

Delta R.T. -0.000 min

Lab File: VU054012.D

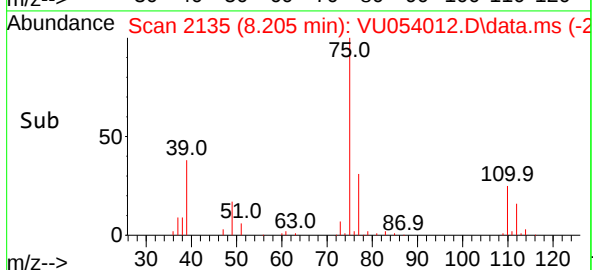
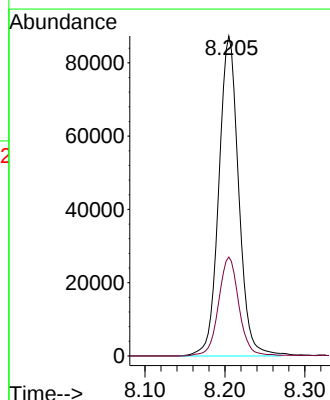
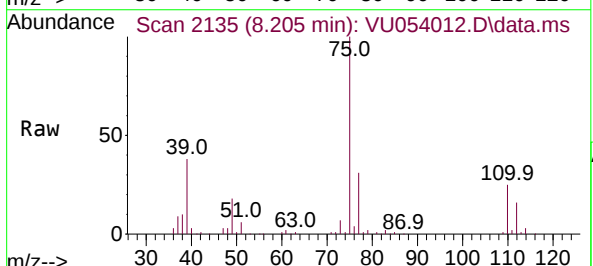
Acq: 30 Apr 2023 01:29

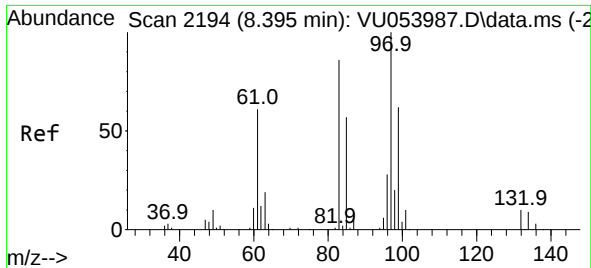
Tgt Ion: 75 Resp: 150041

Ion Ratio Lower Upper

75 100

77 30.9 22.5 41.7



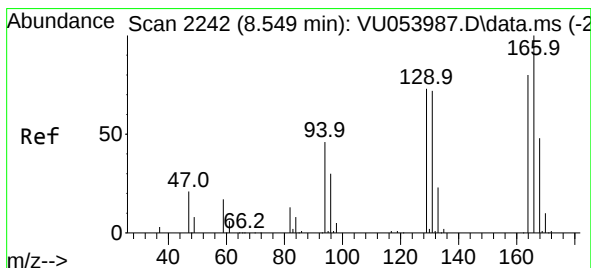
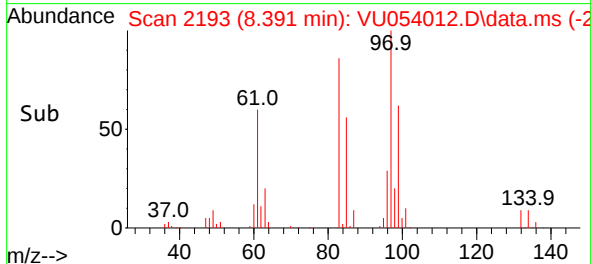
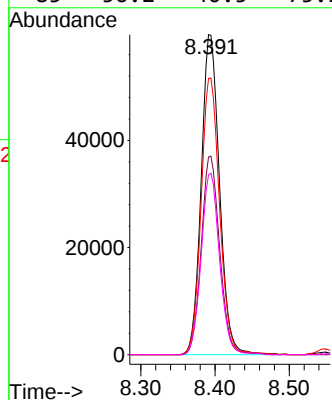
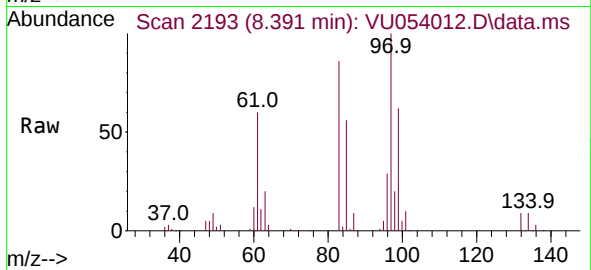


#45  
1,1,2-Trichloroethane  
Concen: 50.019 ug/L  
RT: 8.391 min Scan# 2193  
Delta R.T. -0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

Tgt Ion: 97 Resp: 102300

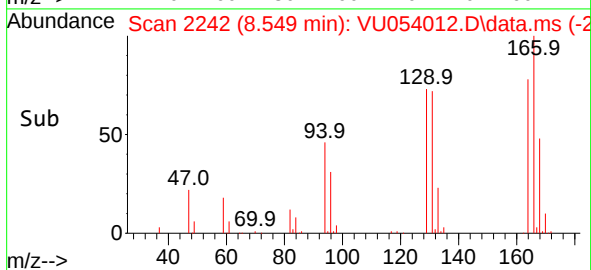
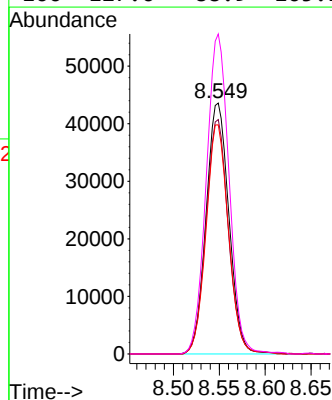
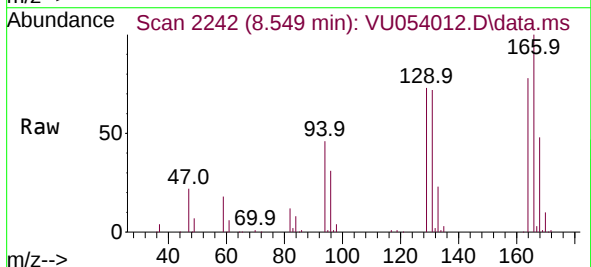
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.8  | 46.2  | 85.8  |
| 83  | 86.4  | 62.7  | 116.5 |
| 85  | 56.2  | 40.5  | 75.1  |

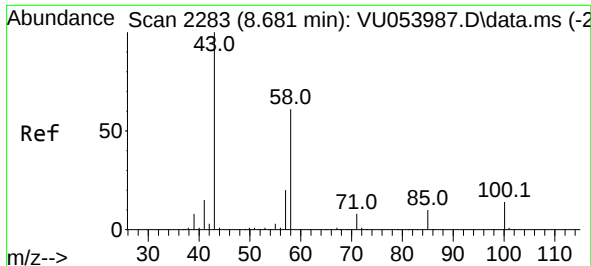


#46  
Tetrachloroethene  
Concen: 48.171 ug/L  
RT: 8.549 min Scan# 2242  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 164 Resp: 75755

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 93.4  | 65.6  | 121.8 |
| 131 | 91.4  | 63.8  | 118.4 |
| 166 | 127.6 | 88.9  | 165.1 |

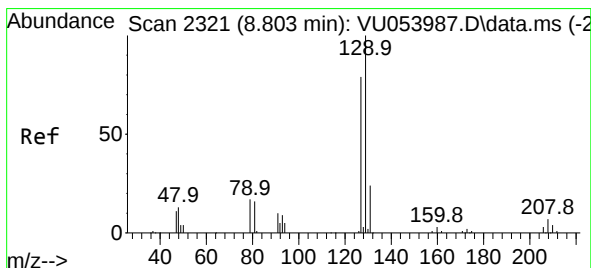
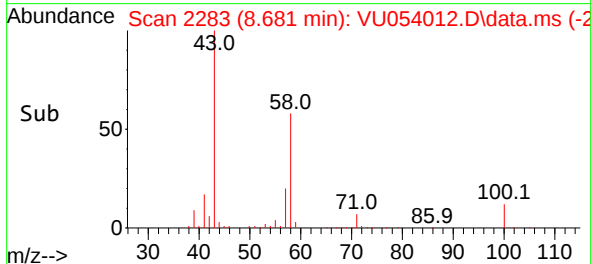
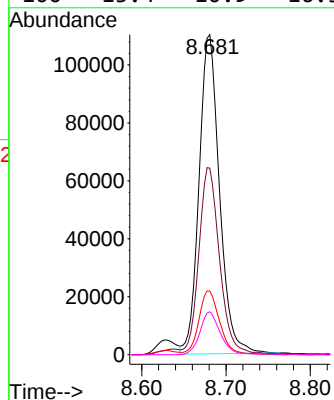
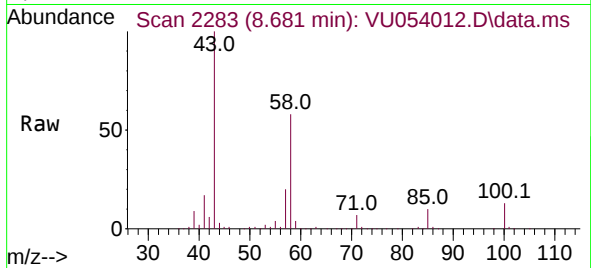




#48  
2-Hexanone  
Concen: 95.471 ug/L  
RT: 8.681 min Scan# 2283  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

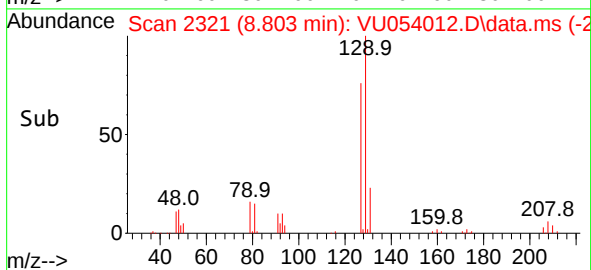
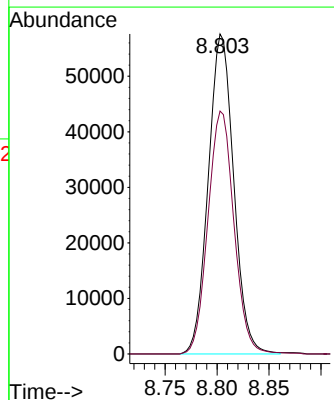
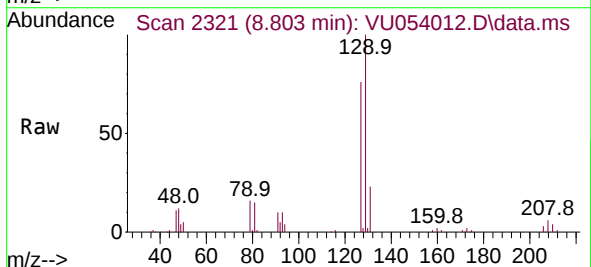
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

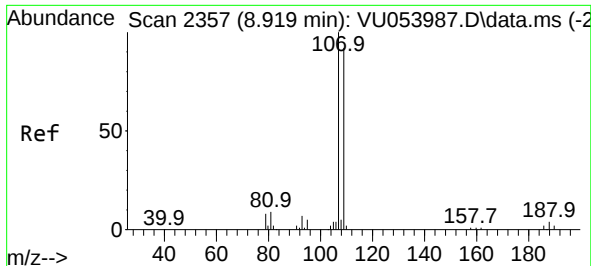
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 186310 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 58 57.8     | 48.5 72.7    |
| 57 20.4     | 16.5 24.7    |
| 100 13.4    | 10.9 16.3    |



#49  
Dibromochloromethane  
Concen: 48.726 ug/L  
RT: 8.803 min Scan# 2321  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

|             |             |       |  |
|-------------|-------------|-------|--|
| Tgt Ion:129 | Resp: 98200 |       |  |
| Ion Ratio   | Lower       | Upper |  |
| 129 100     |             |       |  |
| 127 75.9    | 52.9        | 98.3  |  |





#50

1,2-Dibromoethane

Concen: 49.810 ug/L

RT: 8.919 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050084

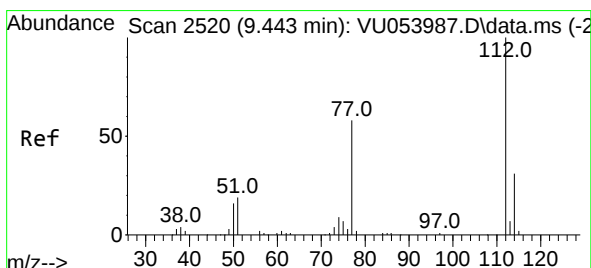
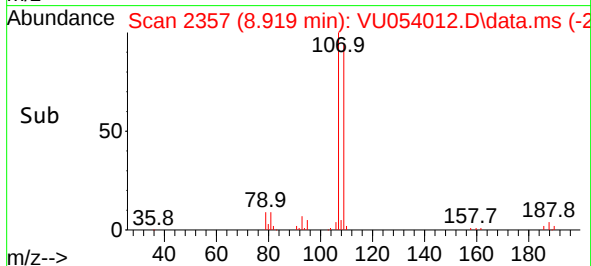
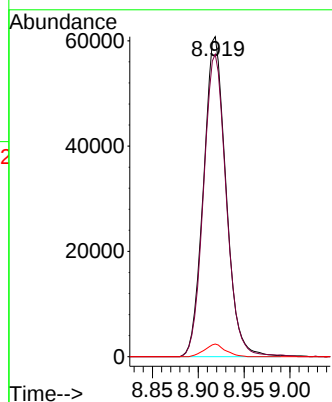
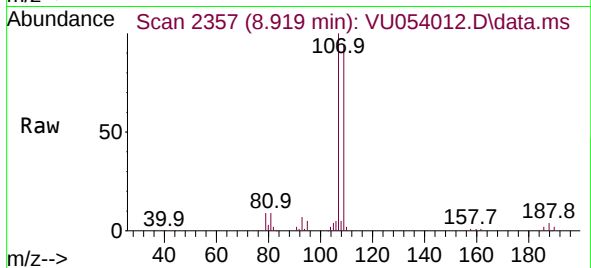
Tgt Ion:107 Resp: 103402

Ion Ratio Lower Upper

107 100

109 94.5 66.1 122.8

188 4.0 3.1 4.7



#51

Chlorobenzene

Concen: 48.661 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

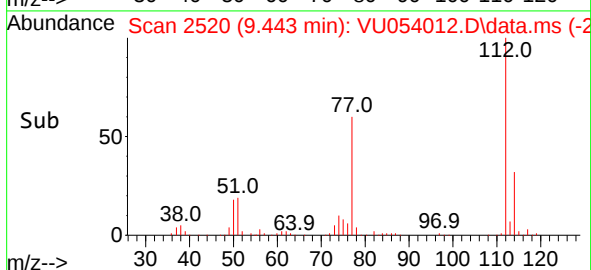
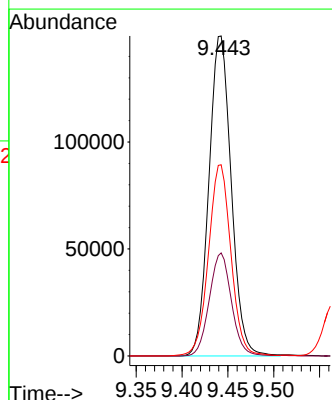
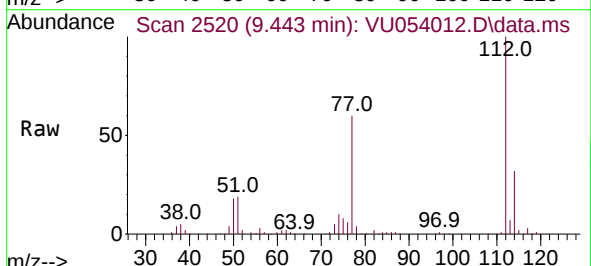
Tgt Ion:112 Resp: 253059

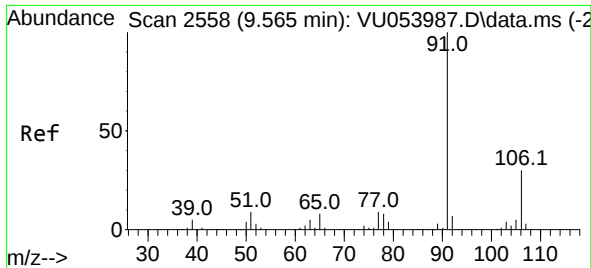
Ion Ratio Lower Upper

112 100

114 32.2 22.3 41.3

77 59.7 47.0 70.4

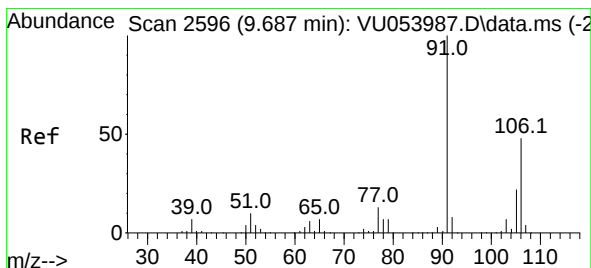
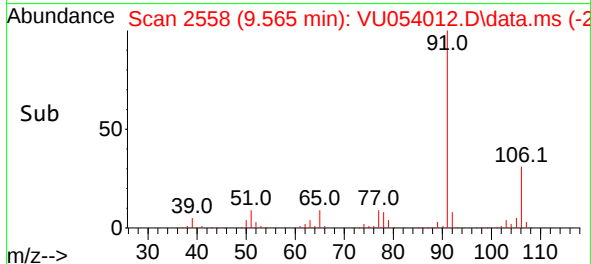
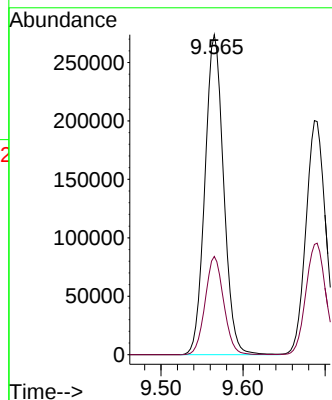
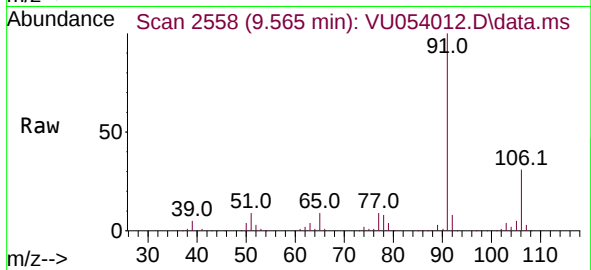




#52  
Ethylbenzene  
Concen: 49.538 ug/L  
RT: 9.565 min Scan# 2558  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

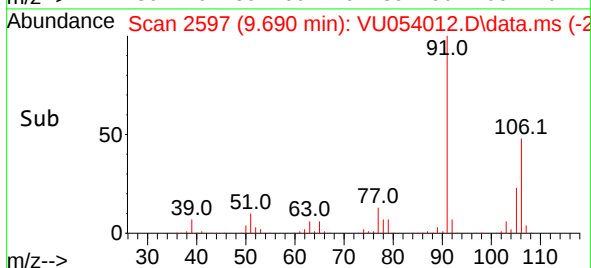
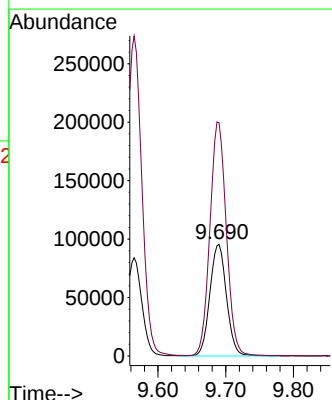
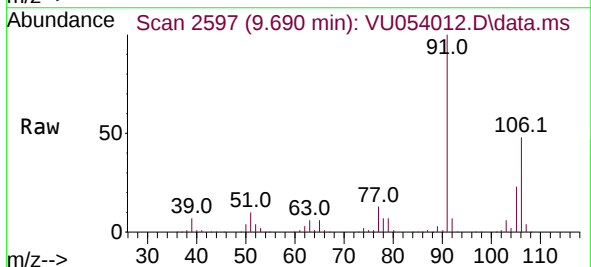
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

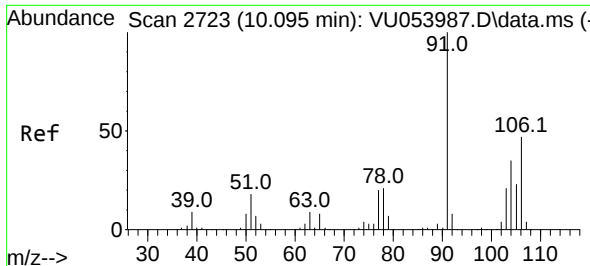
Tgt Ion: 91 Resp: 433499  
Ion Ratio Lower Upper  
91 100  
106 30.7 21.3 39.6



#53  
m,p-Xylene  
Concen: 49.515 ug/L  
RT: 9.690 min Scan# 2597  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 106 Resp: 162707  
Ion Ratio Lower Upper  
106 100  
91 209.0 140.5 260.9

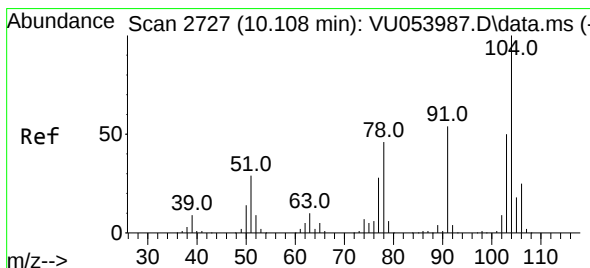
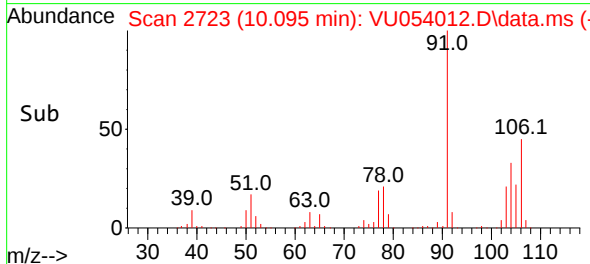
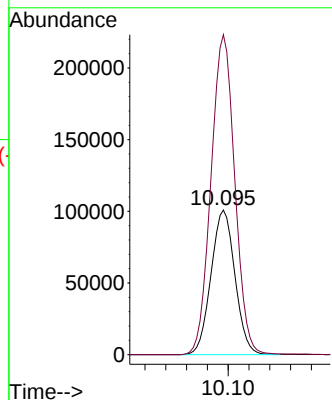
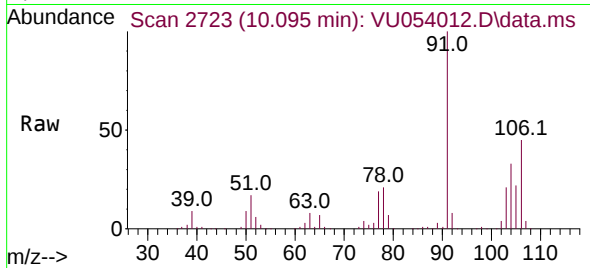




#54  
o-Xylene  
Concen: 50.251 ug/L  
RT: 10.095 min Scan# 2723  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

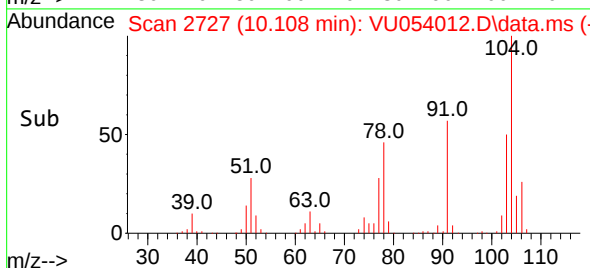
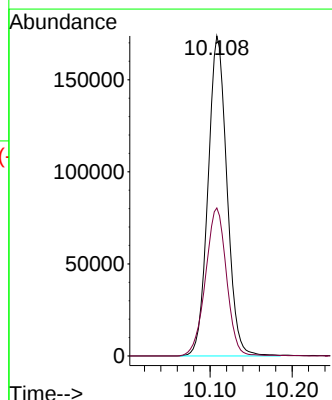
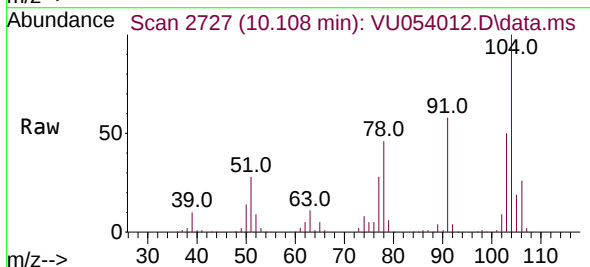
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

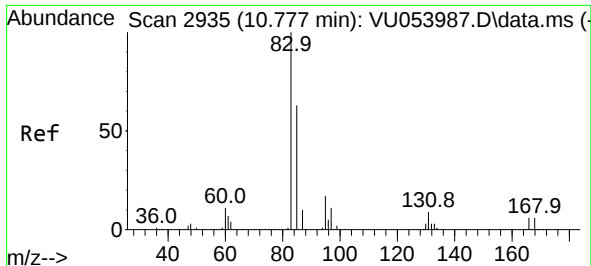
Tgt Ion:106 Resp: 161545  
Ion Ratio Lower Upper  
106 100  
91 221.2 154.9 287.7



#55  
Styrene  
Concen: 50.500 ug/L  
RT: 10.108 min Scan# 2727  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion:104 Resp: 278458  
Ion Ratio Lower Upper  
104 100  
78 46.3 33.2 61.7

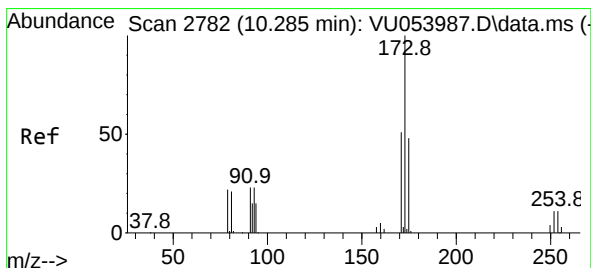
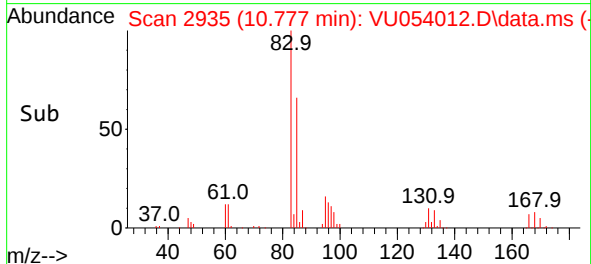
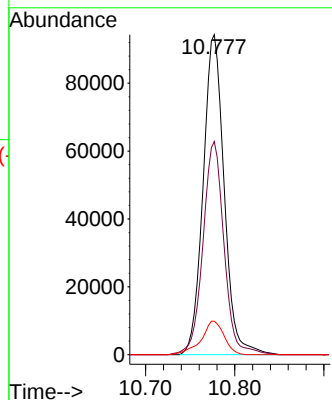
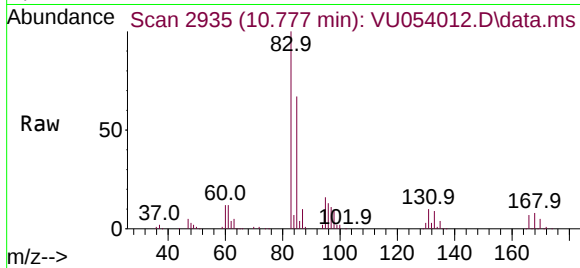




#57  
1,1,2,2-Tetrachloroethane  
Concen: 47.995 ug/L  
RT: 10.777 min Scan# 2935  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

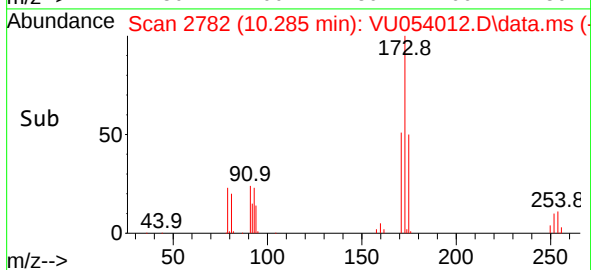
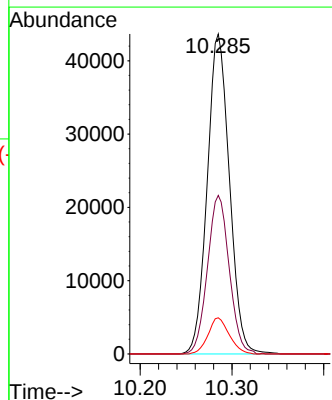
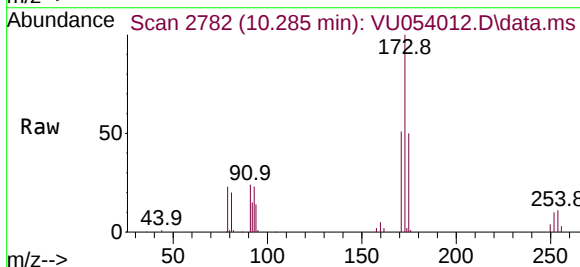
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

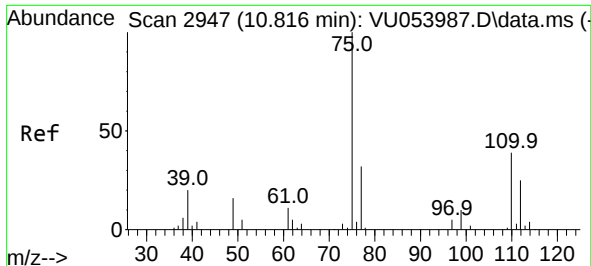
Tgt Ion: 83 Resp: 154629  
Ion Ratio Lower Upper  
83 100  
85 66.6 45.1 83.9  
131 10.4 8.2 12.2



#59  
Bromoform  
Concen: 46.386 ug/L  
RT: 10.285 min Scan# 2782  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 173 Resp: 73303  
Ion Ratio Lower Upper  
173 100  
175 48.5 38.9 58.3  
254 10.8 8.5 12.7

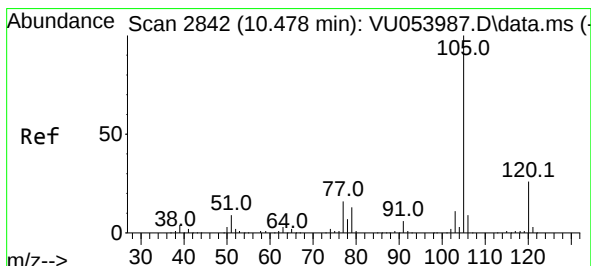
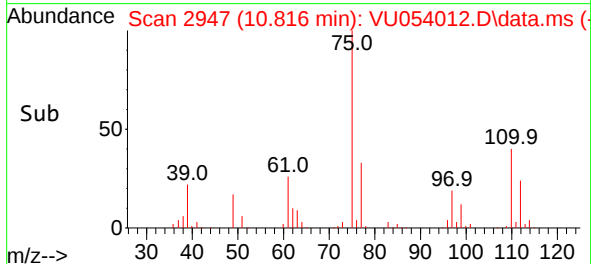
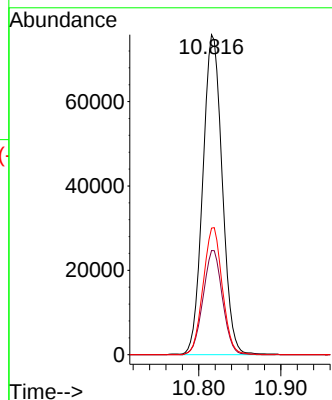
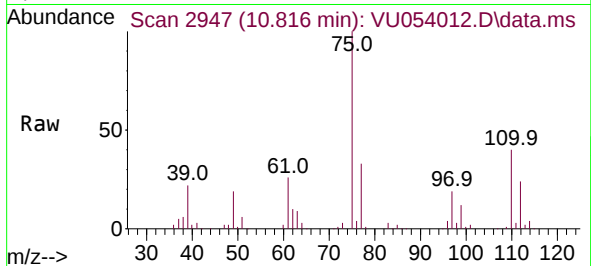




#60  
1,2,3-Trichloropropane  
Concen: 47.515 ug/L  
RT: 10.816 min Scan# 2947  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

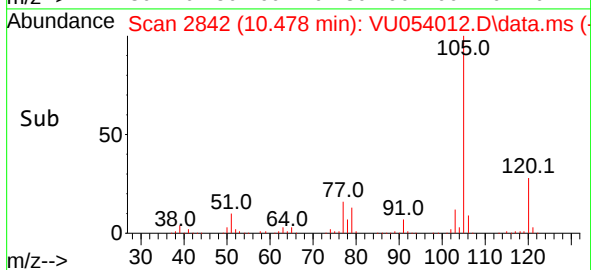
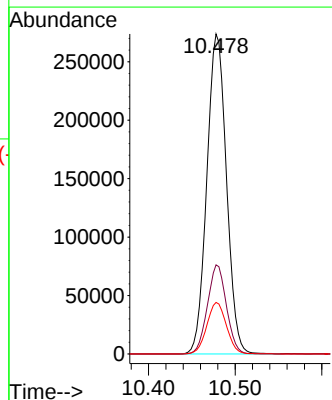
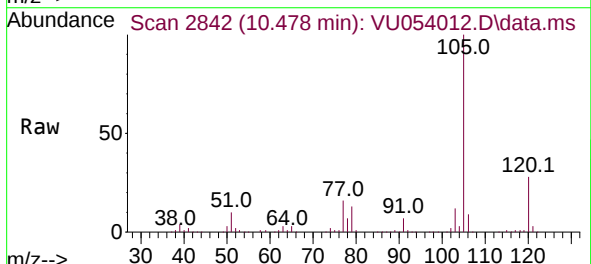
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

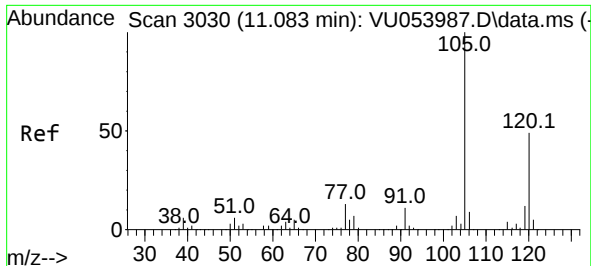
Tgt Ion: 75 Resp: 124580  
Ion Ratio Lower Upper  
75 100  
77 32.5 26.0 39.0  
110 39.2 31.8 47.8



#61  
Isopropylbenzene  
Concen: 48.308 ug/L  
RT: 10.478 min Scan# 2842  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion: 105 Resp: 430434  
Ion Ratio Lower Upper  
105 100  
120 27.0 21.3 31.9  
77 16.1 12.7 19.1





#62

1,3,5-Trimethylbenzene

Concen: 48.942 ug/L

RT: 11.082 min Scan# 3030

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

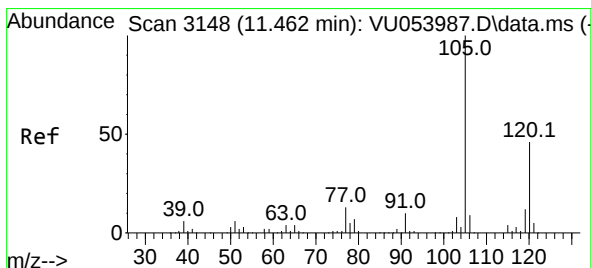
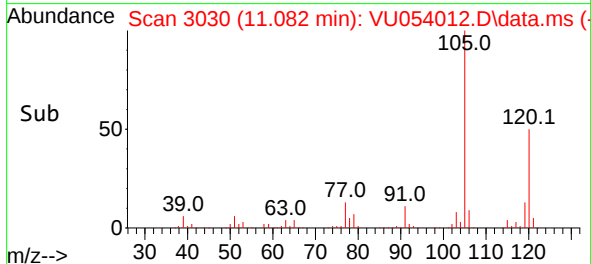
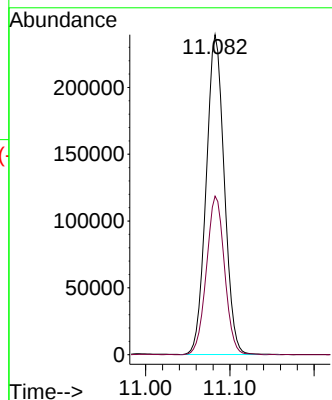
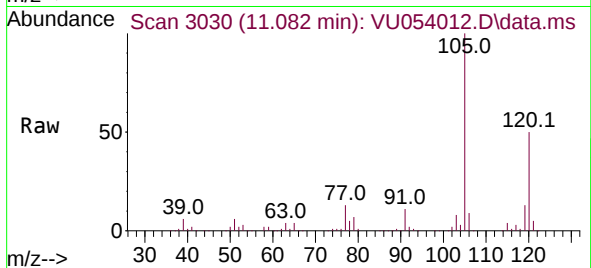
VSTD050084

Tgt Ion:105 Resp: 357350

Ion Ratio Lower Upper

105 100

120 49.7 39.4 59.2



#63

1,2,4-Trimethylbenzene

Concen: 49.076 ug/L

RT: 11.462 min Scan# 3148

Delta R.T. -0.000 min

Lab File: VU054012.D

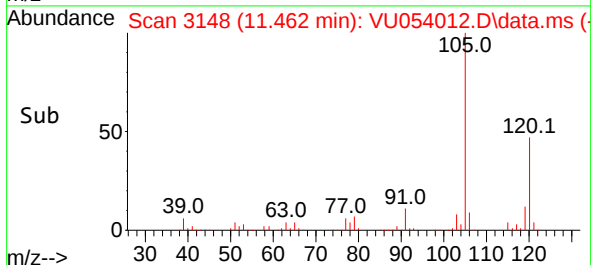
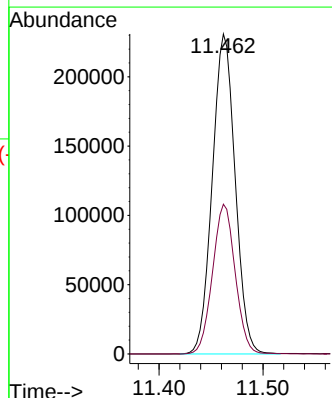
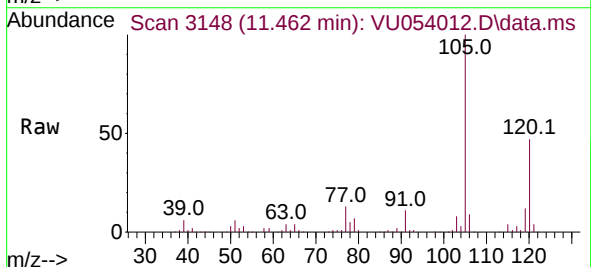
Acq: 30 Apr 2023 01:29

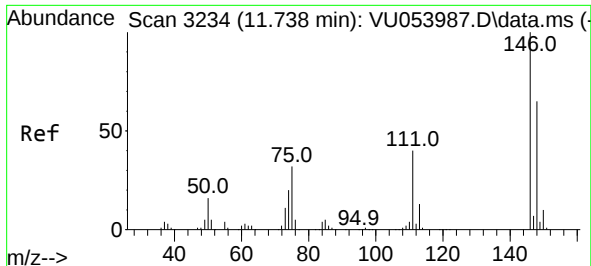
Tgt Ion:105 Resp: 353192

Ion Ratio Lower Upper

105 100

120 46.3 36.5 54.7

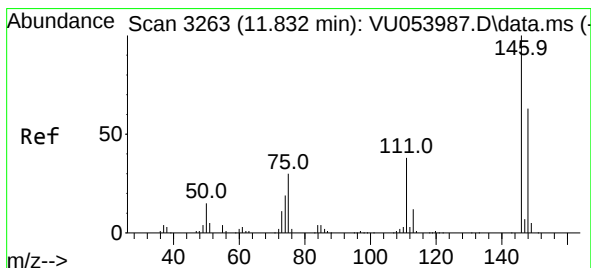
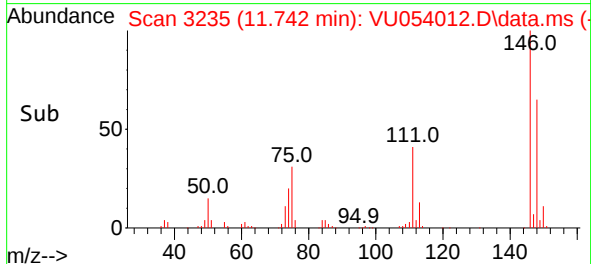
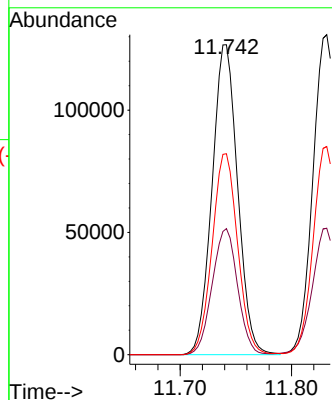
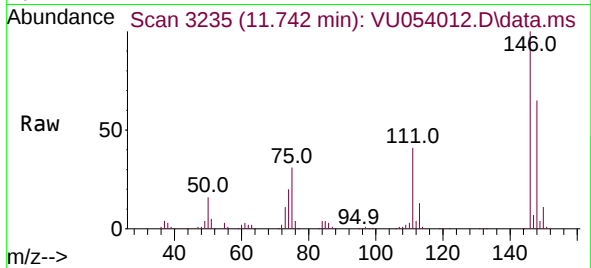




#64  
1,3-Dichlorobenzene  
Concen: 46.385 ug/L  
RT: 11.742 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

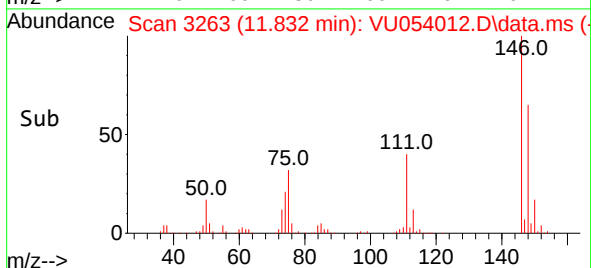
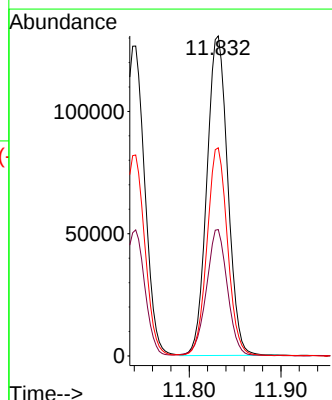
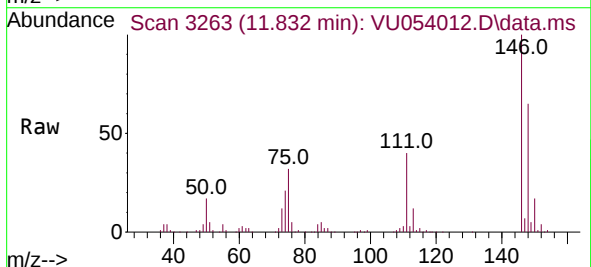
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

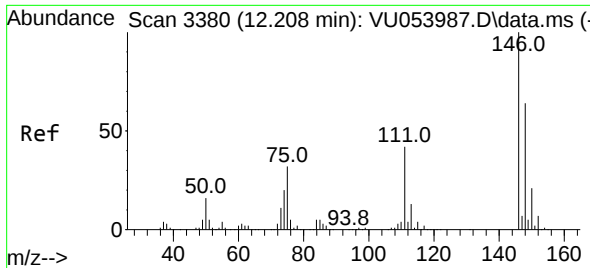
Tgt Ion:146 Resp: 202136  
Ion Ratio Lower Upper  
146 100  
111 40.7 27.9 51.7  
148 64.8 43.8 81.4



#65  
1,4-Dichlorobenzene  
Concen: 46.648 ug/L  
RT: 11.832 min Scan# 3263  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Tgt Ion:146 Resp: 207032  
Ion Ratio Lower Upper  
146 100  
111 39.5 27.9 51.7  
148 65.1 44.9 83.3





#67

1,2-Dichlorobenzene

Concen: 47.796 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

Instrument :

MSVOA\_U

ClientSampleId :

VSTD050084

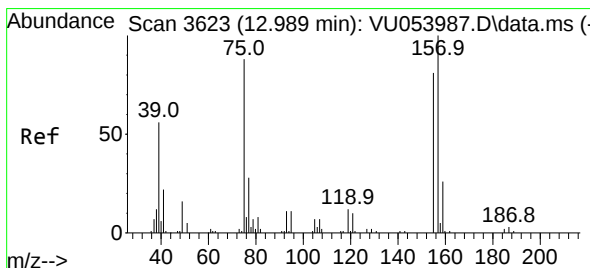
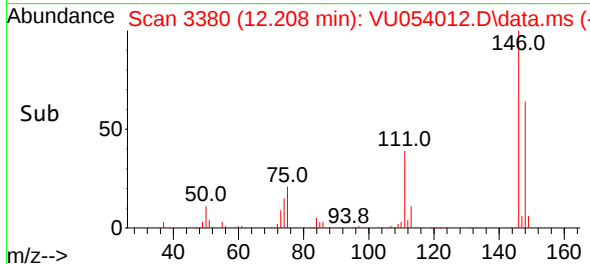
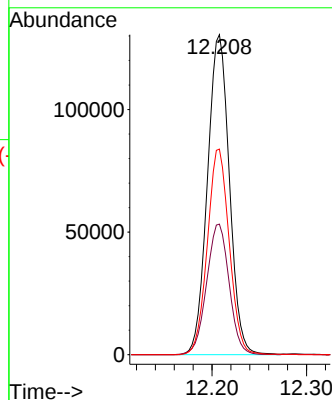
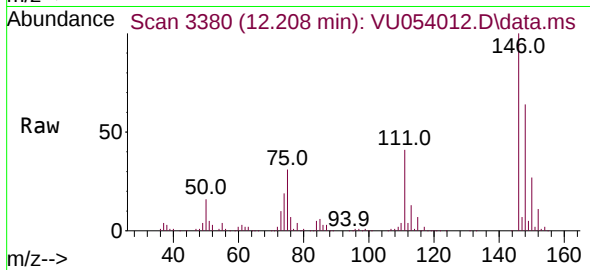
Tgt Ion:146 Resp: 210212

Ion Ratio Lower Upper

146 100

111 40.8 33.4 50.0

148 64.2 50.8 76.2



#68

1,2-Dibromo-3-chloropropane

Concen: 47.070 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. 0.003 min

Lab File: VU054012.D

Acq: 30 Apr 2023 01:29

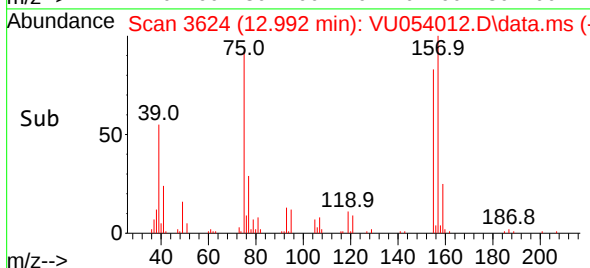
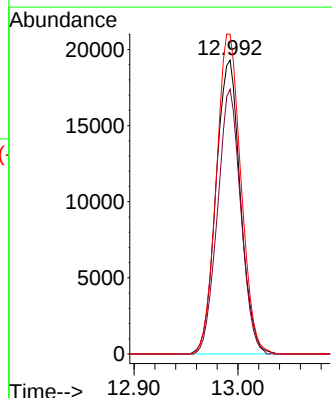
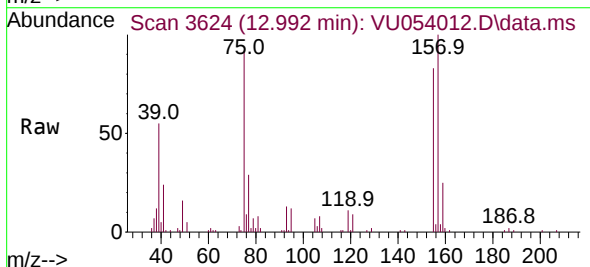
Tgt Ion: 75 Resp: 31485

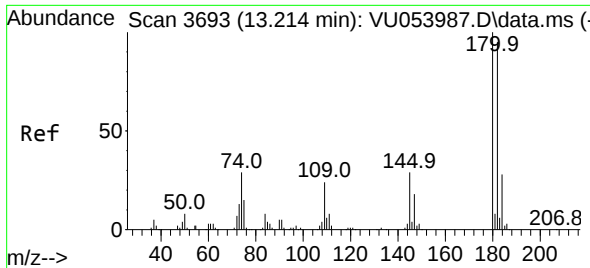
Ion Ratio Lower Upper

75 100

155 90.0 67.8 101.6

157 108.8 88.3 132.5

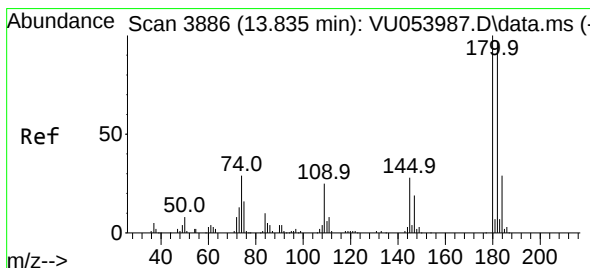
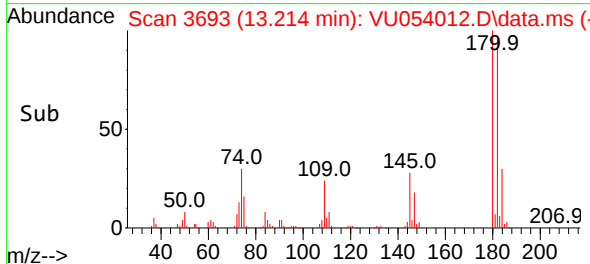
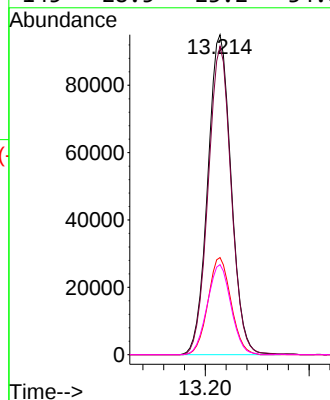
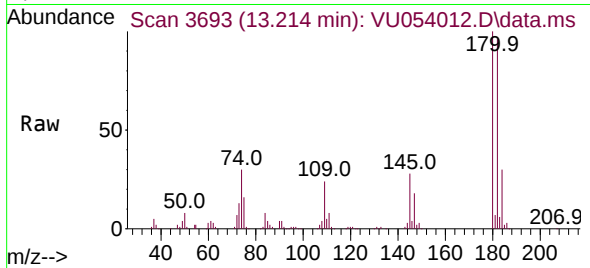




#69  
 1,3,5-Trichlorobenzene  
 Concen: 46.902 ug/L  
 RT: 13.214 min Scan# 3693  
 Delta R.T. -0.000 min  
 Lab File: VU054012.D  
 Acq: 30 Apr 2023 01:29

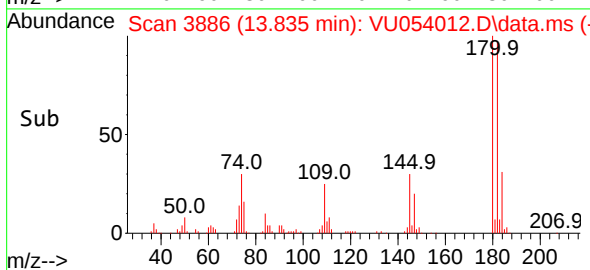
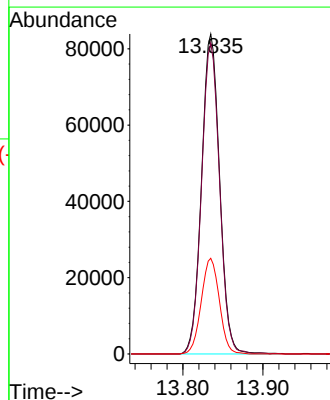
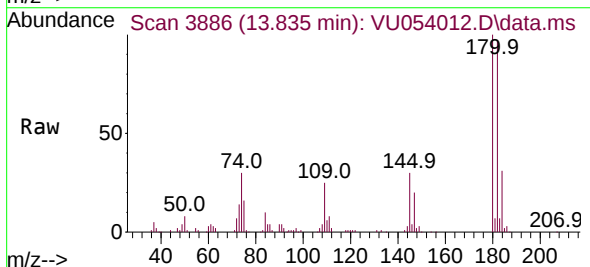
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050084

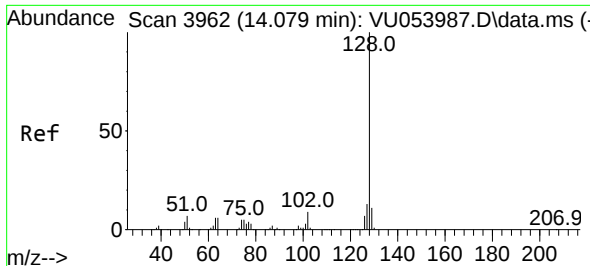
Tgt Ion:180 Resp: 148108  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 76.0 114.0  
 184 29.9 24.2 36.2  
 145 28.5 23.2 34.8



#70  
 1,2,4-trichlorobenzene  
 Concen: 46.263 ug/L  
 RT: 13.835 min Scan# 3886  
 Delta R.T. -0.000 min  
 Lab File: VU054012.D  
 Acq: 30 Apr 2023 01:29

Tgt Ion:180 Resp: 132441  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 77.4 116.2  
 145 29.8 23.8 35.8

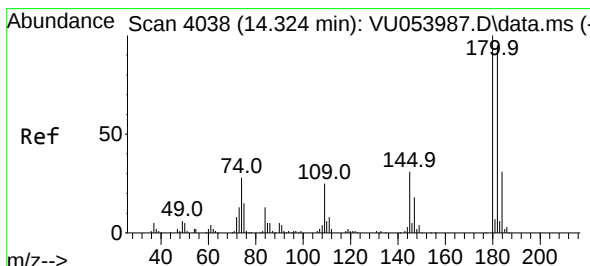
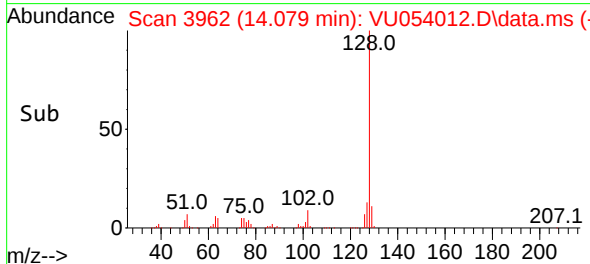
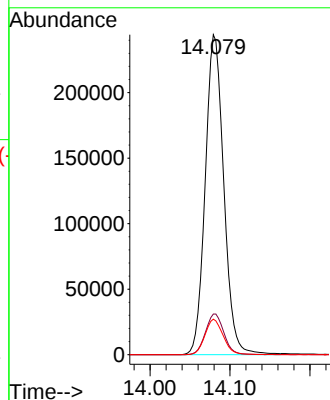
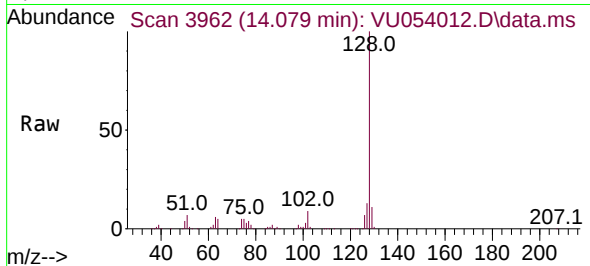




#71  
Naphthalene  
Concen: 47.531 ug/L  
RT: 14.079 min Scan# 3962  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD050084

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:128 | Resp: | 394682 |
| Ion | Ratio   | Lower | Upper  |
| 128 | 100     |       |        |
| 127 | 12.6    | 10.0  | 15.0   |
| 129 | 10.9    | 8.4   | 12.6   |



#72  
1,2,3-Trichlorobenzene  
Concen: 47.384 ug/L  
RT: 14.323 min Scan# 4038  
Delta R.T. -0.000 min  
Lab File: VU054012.D  
Acq: 30 Apr 2023 01:29

|             |              |
|-------------|--------------|
| Tgt Ion:180 | Resp: 134940 |
| Ion Ratio   | Lower Upper  |
| 180 100     |              |
| 182 93.4    | 76.6 114.8   |
| 145 31.5    | 24.9 37.3    |

