

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW071223\  
 Data File : VW031685.D  
 Acq On : 12 Jul 2023 10:49  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050389

Quant Time: Jul 13 04:55:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM071123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 12 07:50:48 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.538   | 114   | 287290   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.789   | 117   | 311258   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.191  | 152   | 191773   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278   | 65    | 125490   | 48.260   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 96.520%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 108412   | 57.613   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 115.220% |
| 11) 1,1-Dichloroethene-d2     | 2.059   | 65    | 60329    | 52.082   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 104.160% |
| 21) 2-Butanone-d5             | 3.796   | 46    | 163201   | 98.213   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 98.210%  |
| 24) Chloroform-d              | 4.252   | 84    | 268531   | 51.745   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.500% |
| 26) 1,2-Dichloroethane-d4     | 4.944   | 65    | 161889   | 49.612   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 99.220%  |
| 32) Benzene-d6                | 4.963   | 84    | 458875   | 49.170   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.340%  |
| 36) 1,2-Dichloropropane-d6    | 5.992   | 67    | 155570   | 51.558   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 103.120% |
| 41) Toluene-d8                | 7.246   | 98    | 435290   | 51.877   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.760% |
| 43) trans-1,3-Dichloroprop... | 7.554   | 79    | 71481    | 47.442   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.880%  |
| 47) 2-Hexanone-d5             | 8.030   | 63    | 107888   | 93.285   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 93.280%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.156  | 84    | 224574   | 49.139   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 98.280%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.567  | 152   | 161526   | 45.921   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.840%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105   | 85    | 196543   | 55.034   | ug/L   | 100      |
| 3) Chloromethane              | 1.217   | 50    | 193526   | 52.377   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.285   | 62    | 184391   | 53.288   | ug/L   | 100      |
| 6) Bromomethane               | 1.487   | 94    | 119121   | 60.253   | ug/L   | 100      |
| 8) Chloroethane               | 1.548   | 64    | 113135   | 59.297   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.715   | 101   | 282290   | 56.934   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 164465   | 57.623   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.072   | 96    | 139115   | 56.083   | ug/L   | 90       |
| 13) Acetone                   | 2.124   | 43    | 135870   | 94.619   | ug/L   | 100      |
| 14) Carbon disulfide          | 2.243   | 76    | 442210   | 54.145   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.375   | 43    | 163209   | 53.924   | ug/L   | 96       |
| 16) Methylene chloride        | 2.449   | 84    | 159639   | 54.442   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 2.696   | 96    | 132604   | 52.336   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 2.709   | 73    | 400002   | 51.877   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.114   | 63    | 282403   | 54.520   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 3.818   | 96    | 135579   | 52.163   | ug/L   | 95       |
| 22) 2-Butanone                | 3.876   | 43    | 201483   | 101.270  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.149   | 128   | 78199    | 55.335   | ug/L   | 96       |
| 25) Chloroform                | 4.281   | 83    | 297030   | 55.908   | ug/L   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW071223\  
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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VSTD050389

Quant Time: Jul 13 04:55:54 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM071123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 12 07:50:48 2023  
 Response via : Initial Calibration

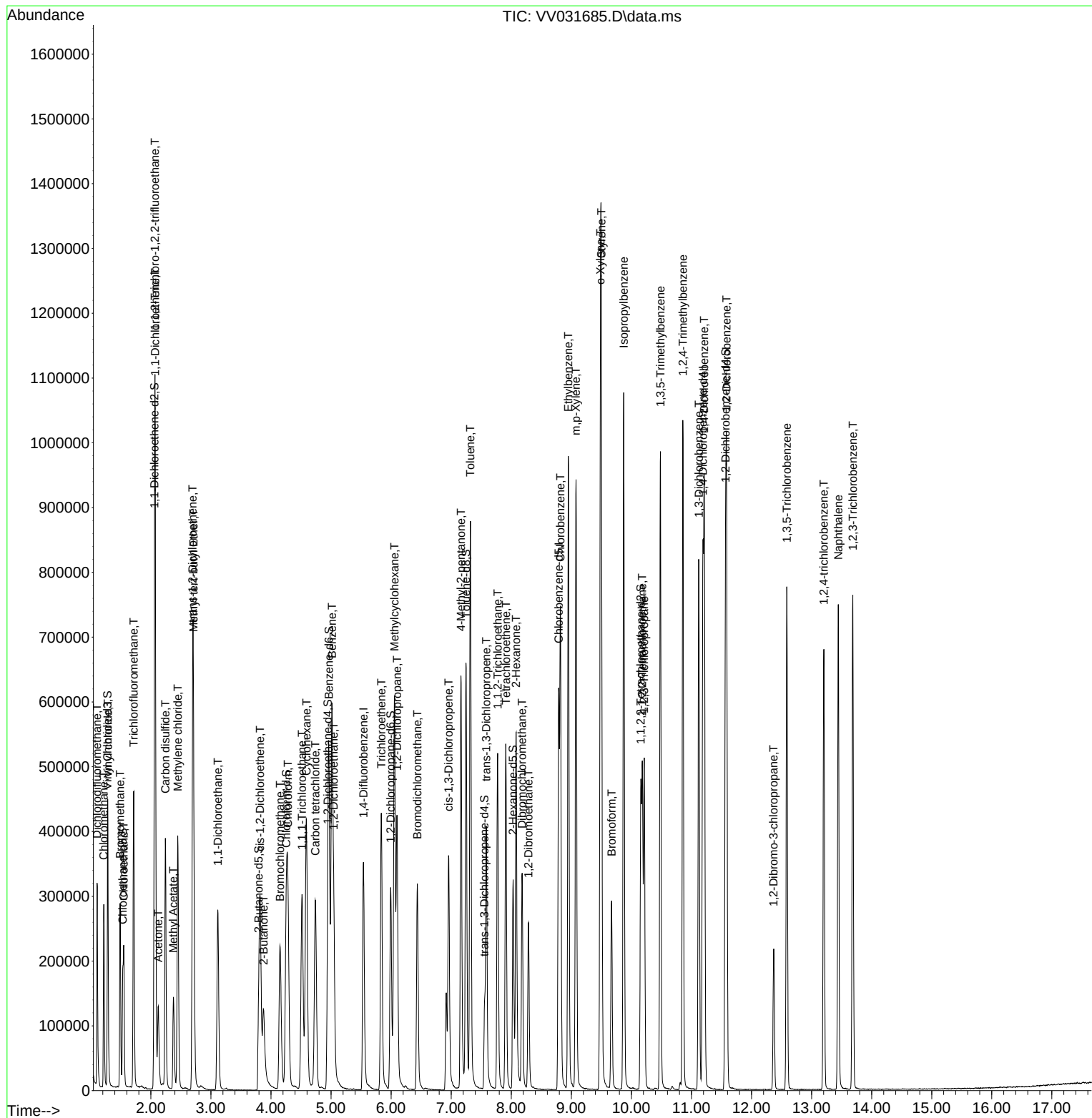
| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.043  | 62   | 220940   | 55.976  | ug/L   | 99       |
| 29) Cyclohexane               | 4.590  | 56   | 212505   | 52.076  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 4.516  | 97   | 257344   | 52.912  | ug/L   | 98       |
| 31) Carbon tetrachloride      | 4.738  | 117  | 227112   | 52.687  | ug/L   | 100      |
| 33) Benzene                   | 5.014  | 78   | 581897   | 54.819  | ug/L   | 100      |
| 34) Trichloroethene           | 5.837  | 95   | 159195   | 53.302  | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.056  | 83   | 229278   | 56.401  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.098  | 63   | 164782   | 55.531  | ug/L   | 98       |
| 38) Bromodichloromethane      | 6.436  | 83   | 221300   | 55.015  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene   | 6.956  | 75   | 222442   | 49.553  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.162  | 43   | 417478   | 113.114 | ug/L   | 99       |
| 42) Toluene                   | 7.320  | 91   | 634408   | 57.873  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.583  | 75   | 238415   | 53.241  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 161865   | 55.096  | ug/L   | 97       |
| 46) Tetrachloroethene         | 7.911  | 164  | 115368   | 50.807  | ug/L   | 96       |
| 48) 2-Hexanone                | 8.082  | 43   | 341252   | 110.014 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.181  | 129  | 173503   | 53.177  | ug/L   | 99       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 171358   | 52.932  | ug/L   | 99       |
| 51) Chlorobenzene             | 8.818  | 112  | 374076   | 51.481  | ug/L   | 99       |
| 52) Ethylbenzene              | 8.950  | 91   | 644996   | 54.078  | ug/L   | 98       |
| 53) m,p-Xylene                | 9.079  | 106  | 246093   | 55.965  | ug/L   | 96       |
| 54) o-Xylene                  | 9.484  | 106  | 223300   | 54.831  | ug/L   | 99       |
| 55) Styrene                   | 9.500  | 104  | 445611   | 59.437  | ug/L   | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.181 | 83   | 239438   | 52.496  | ug/L # | 94       |
| 59) Bromoform                 | 9.670  | 173  | 128743   | 52.535  | ug/L # | 97       |
| 60) Isopropylbenzene          | 9.873  | 105  | 624399   | 53.320  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 10.214 | 75   | 206843   | 51.859  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 501688   | 52.431  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.857 | 105  | 518728   | 54.428  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.123 | 146  | 320009   | 52.612  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.213 | 146  | 338162   | 51.261  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 11.583 | 146  | 320001   | 51.297  | ug/L   | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 59335    | 48.755  | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.586 | 180  | 223296   | 49.005  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.204 | 180  | 193281   | 47.871  | ug/L   | 99       |
| 71) Naphthalene               | 13.445 | 128  | 545360   | 46.679  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.686 | 180  | 212884   | 50.289  | ug/L   | 99       |

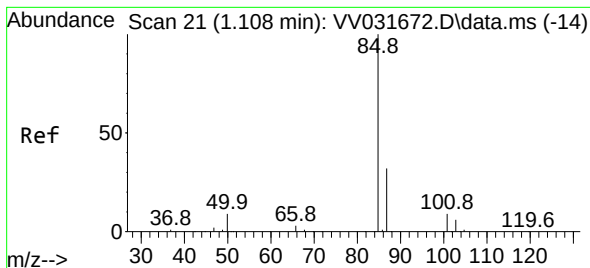
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Sample : VSTDCC050  
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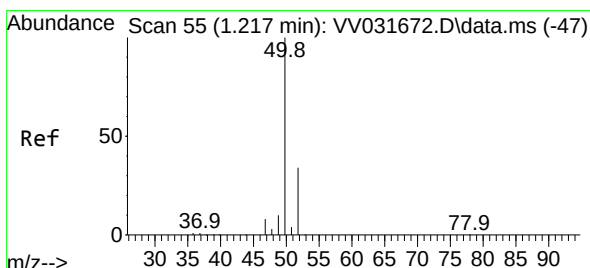
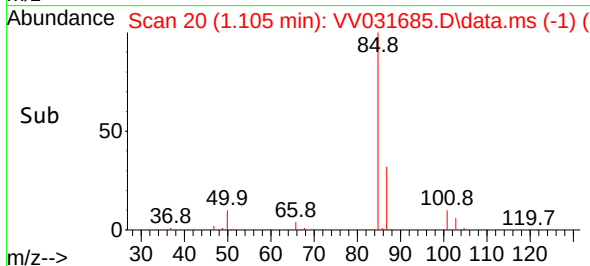
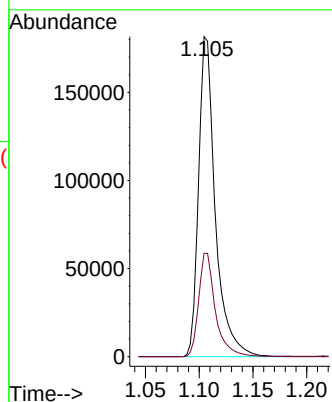
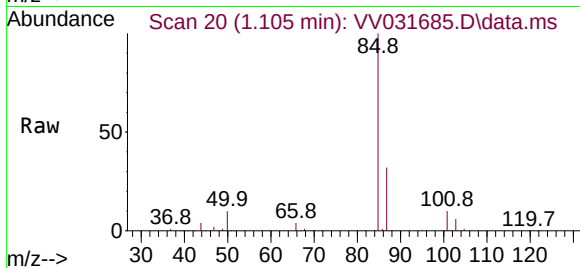




#2  
 Dichlorodifluoromethane  
 Concen: 55.034 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. -0.003 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

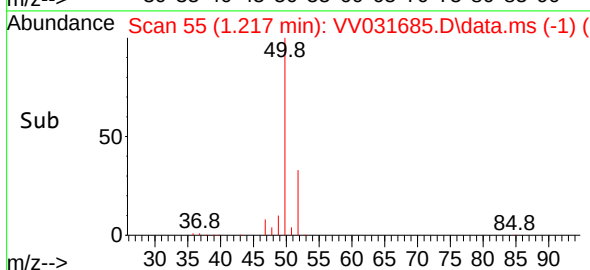
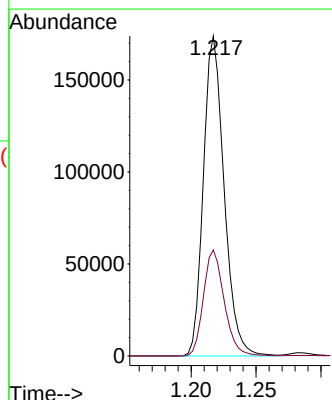
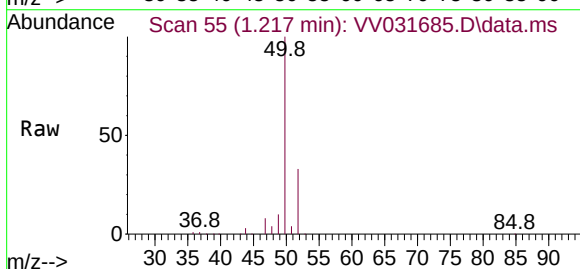
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050389

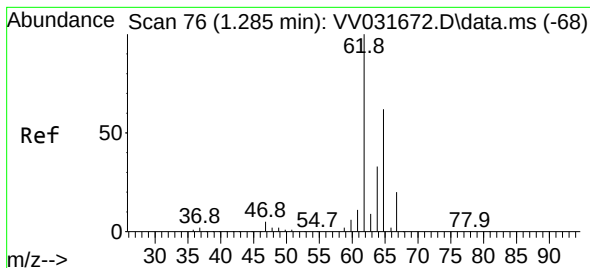
Tgt Ion: 85 Resp: 196543  
 Ion Ratio Lower Upper  
 85 100  
 87 32.4 25.8 38.6



#3  
 Chloromethane  
 Concen: 52.377 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. -0.000 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

Tgt Ion: 50 Resp: 193526  
 Ion Ratio Lower Upper  
 50 100  
 52 33.2 23.7 44.1





#5

Vinyl chloride

Concen: 53.288 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

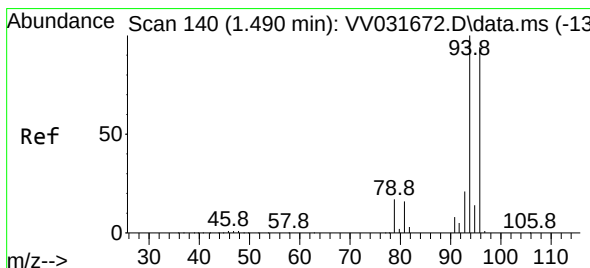
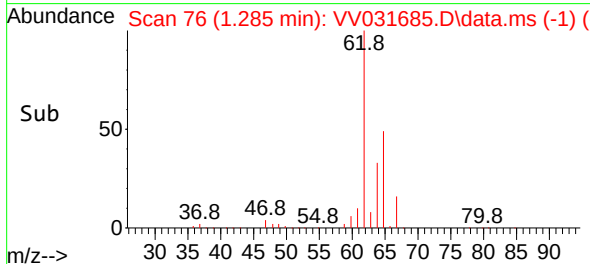
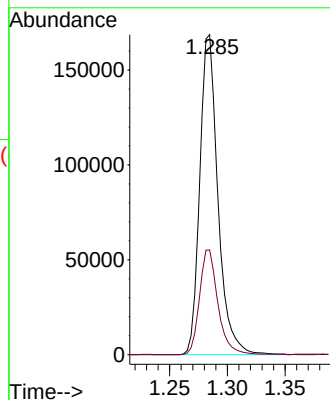
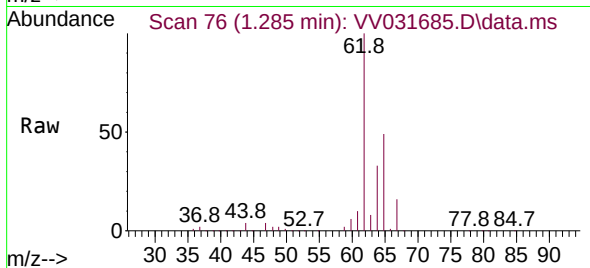
VSTD050389

Tgt Ion: 62 Resp: 184391

Ion Ratio Lower Upper

62 100

64 32.8 22.9 42.5



#6

Bromomethane

Concen: 60.253 ug/L

RT: 1.487 min Scan# 139

Delta R.T. -0.003 min

Lab File: VV031685.D

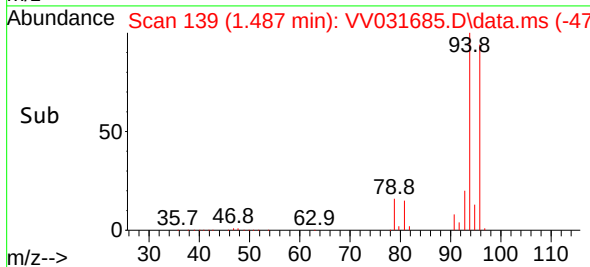
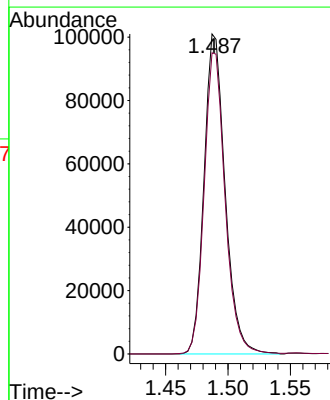
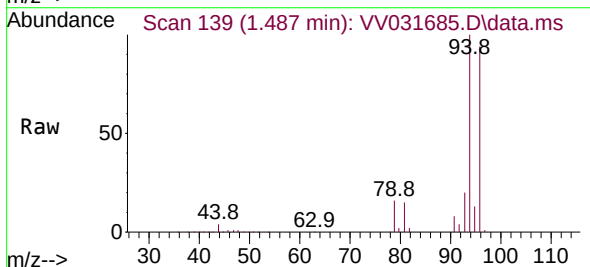
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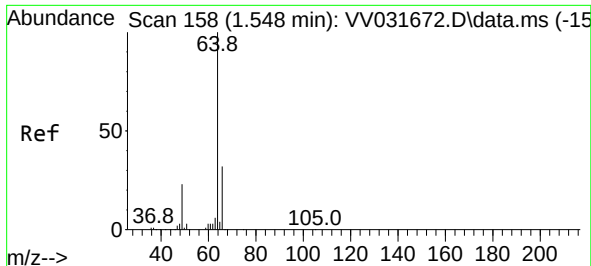
Tgt Ion: 94 Resp: 119121

Ion Ratio Lower Upper

94 100

96 94.1 65.7 121.9

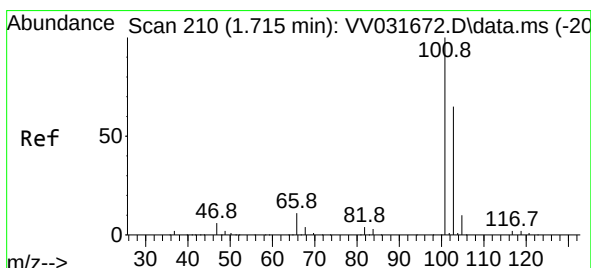
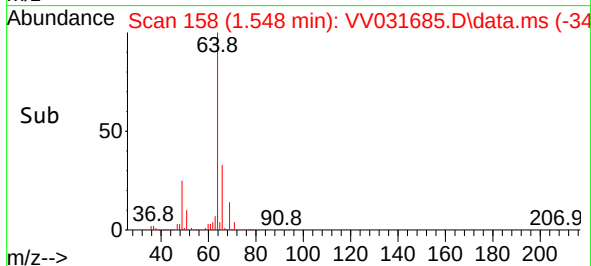
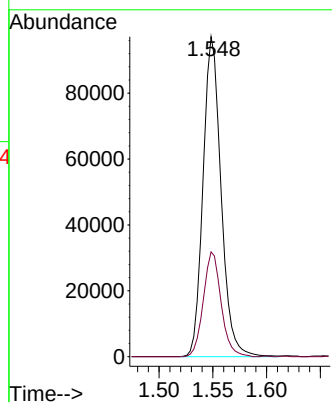
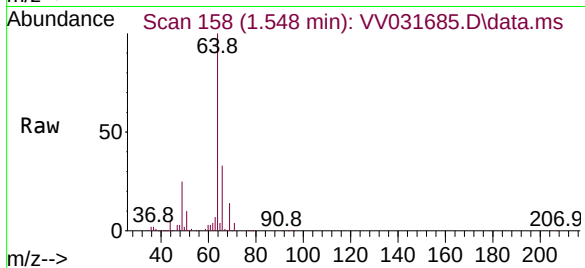




#8  
Chloroethane  
Concen: 59.297 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

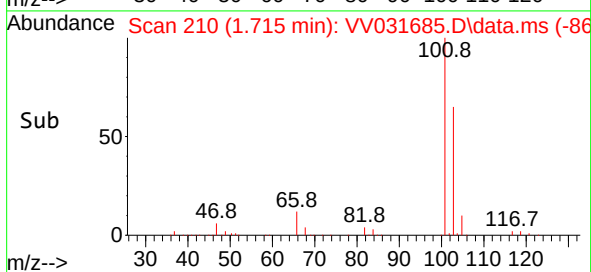
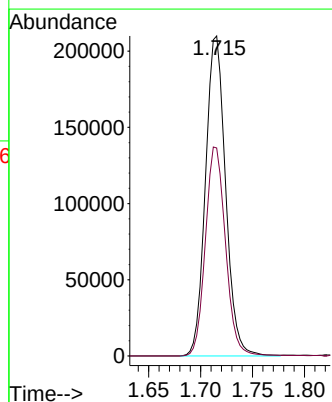
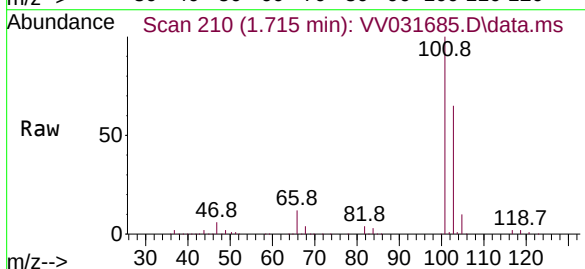
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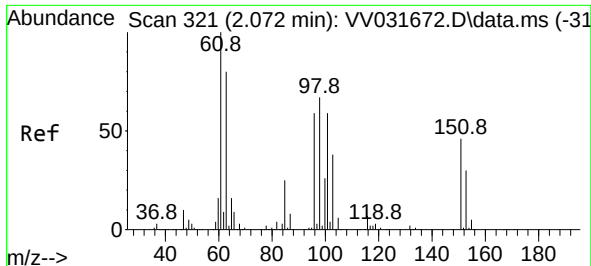
Tgt Ion: 64 Resp: 113135  
Ion Ratio Lower Upper  
64 100  
66 32.8 22.4 41.6



#9  
Trichlorofluoromethane  
Concen: 56.934 ug/L  
RT: 1.715 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

Tgt Ion:101 Resp: 282290  
Ion Ratio Lower Upper  
101 100  
103 65.6 51.7 77.5

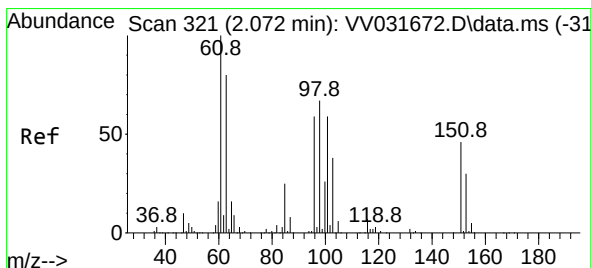
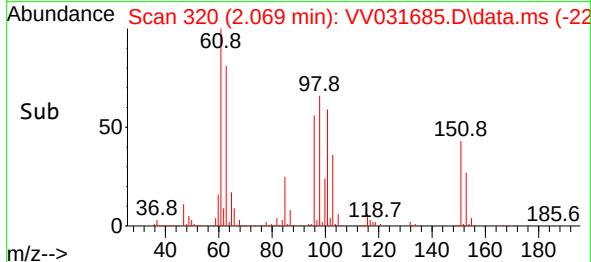
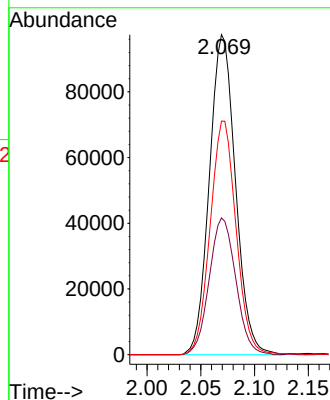
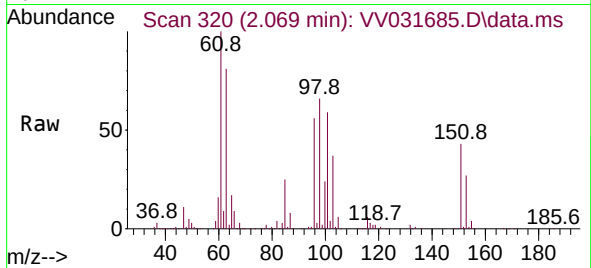




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 57.623 ug/L  
 RT: 2.069 min Scan# 31  
 Delta R.T. -0.003 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

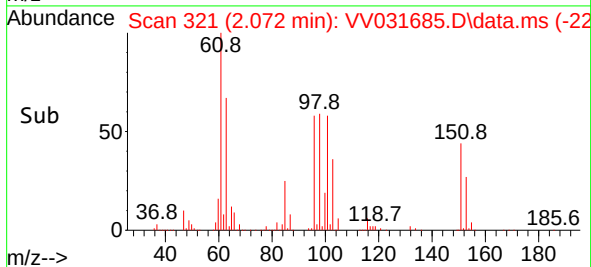
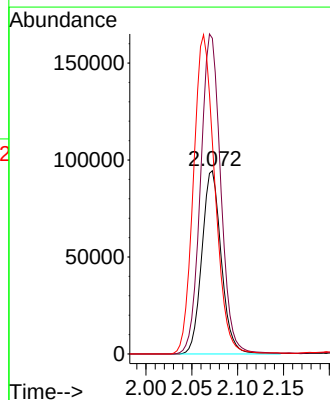
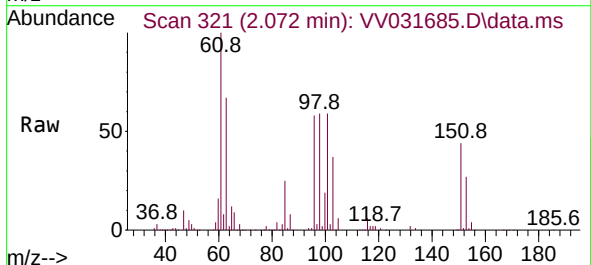
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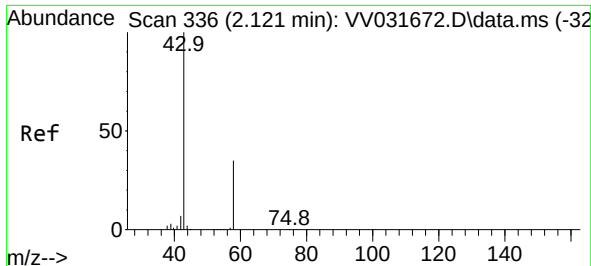
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 Ion Ratio Lower Upper  
 101 100  
 85 43.4 33.9 50.9  
 151 72.5 61.0 91.6



#12  
 1,1-Dichloroethene  
 Concen: 56.083 ug/L  
 RT: 2.072 min Scan# 321  
 Delta R.T. 0.000 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

Tgt Ion: 96 Resp: 139115  
 Ion Ratio Lower Upper  
 96 100  
 61 172.2 118.3 219.7  
 63 115.8 96.8 179.8





#13

Acetone

Concen: 94.619 ug/L

RT: 2.124 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

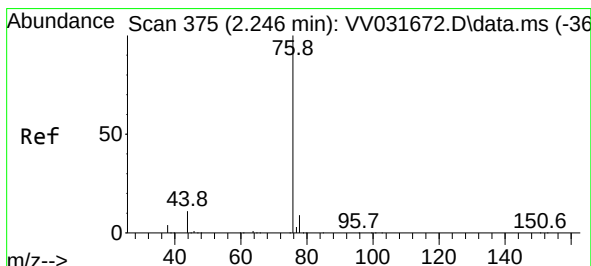
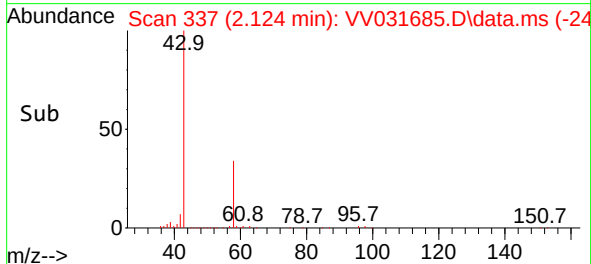
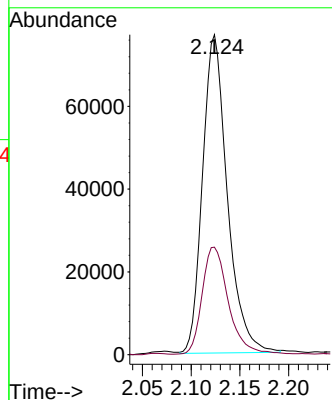
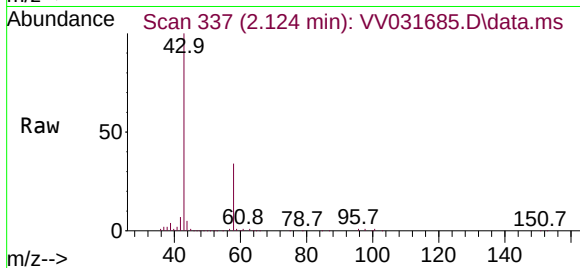
VSTD050389

Tgt Ion: 43 Resp: 135870

Ion Ratio Lower Upper

43 100

58 35.8 0.0 72.0



#14

Carbon disulfide

Concen: 54.145 ug/L

RT: 2.243 min Scan# 374

Delta R.T. -0.003 min

Lab File: VV031685.D

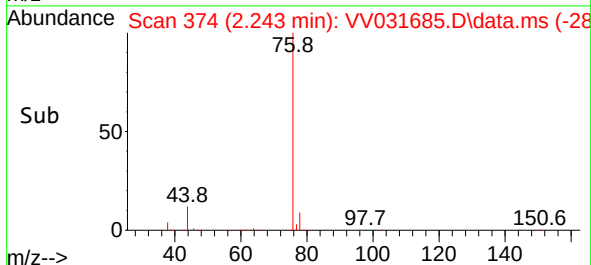
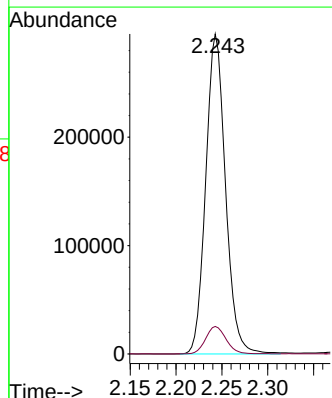
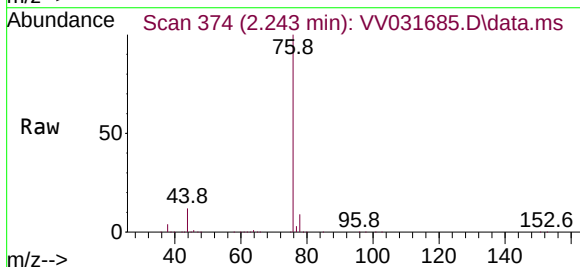
Acq: 12 Jul 2023 10:49

Tgt Ion: 76 Resp: 442210

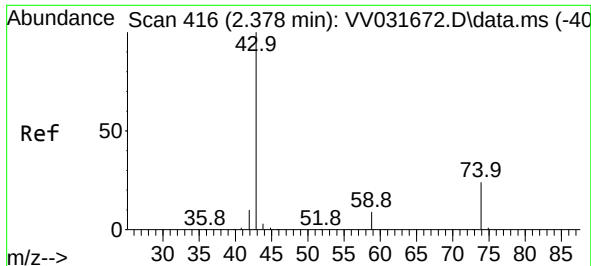
Ion Ratio Lower Upper

76 100

78 8.6 7.4 11.0



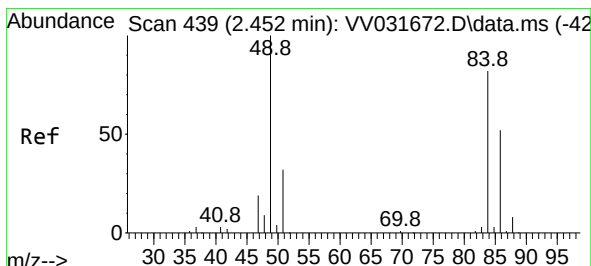
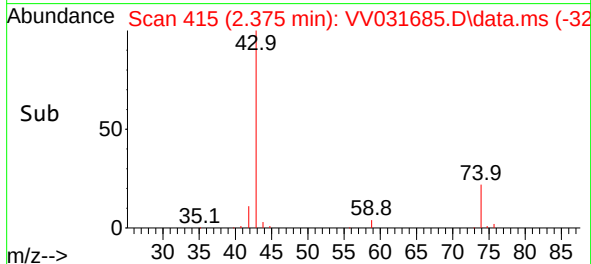
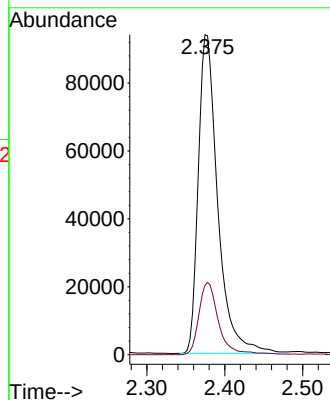
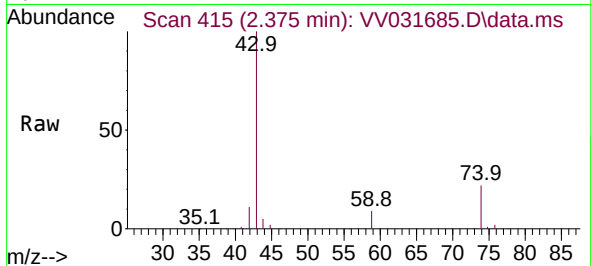




#15  
Methyl Acetate  
Concen: 53.924 ug/L  
RT: 2.375 min Scan# 41  
Delta R.T. -0.003 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

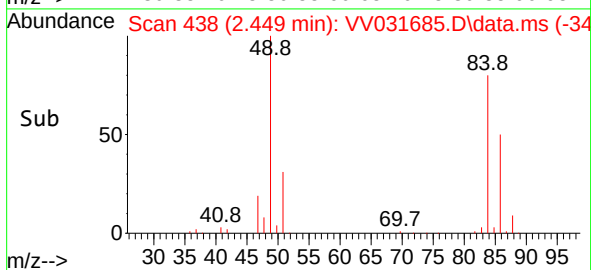
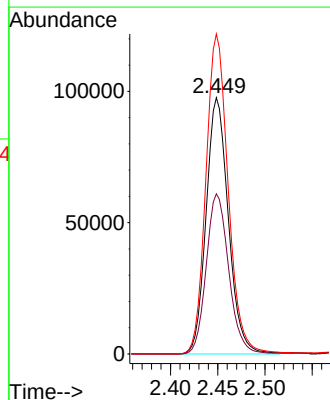
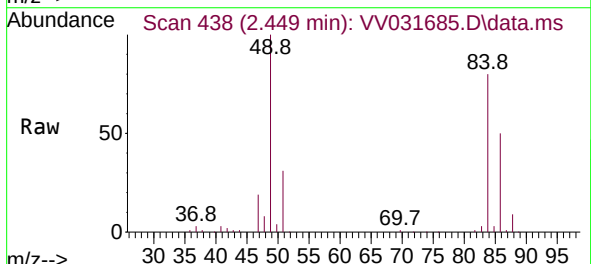
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050389

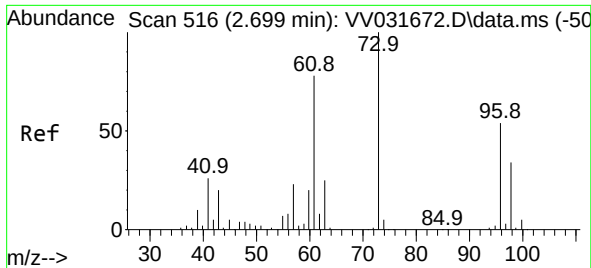
Tgt Ion: 43 Resp: 163209  
Ion Ratio Lower Upper  
43 100  
74 22.5 19.5 29.3



#16  
Methylene chloride  
Concen: 54.442 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. -0.003 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

Tgt Ion: 84 Resp: 159639  
Ion Ratio Lower Upper  
84 100  
86 62.5 44.5 82.7  
49 124.8 85.3 158.5

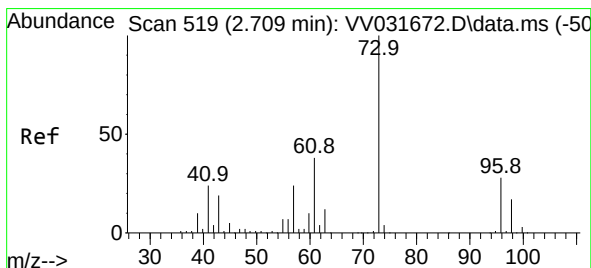
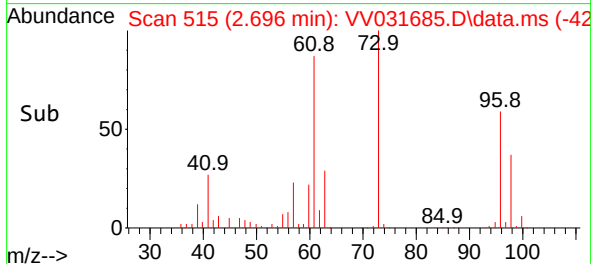
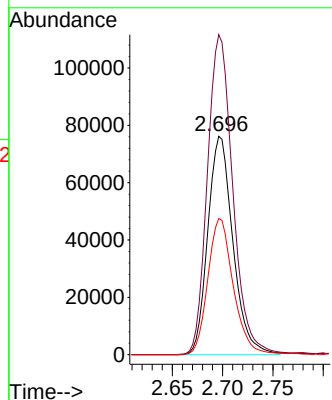
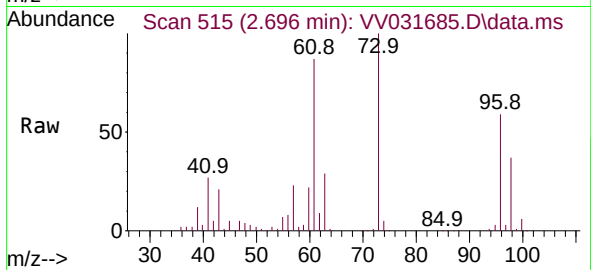




#17  
trans-1,2-Dichloroethene  
Concen: 52.336 ug/L  
RT: 2.696 min Scan# 516  
Delta R.T. -0.003 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

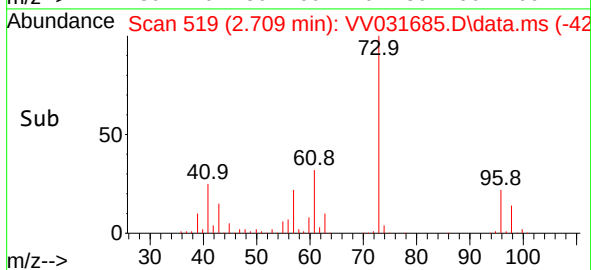
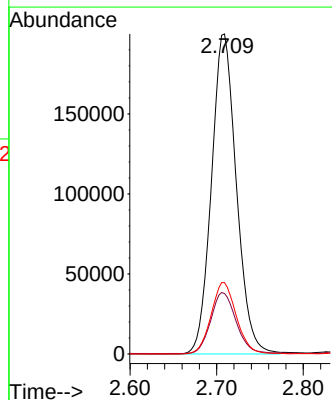
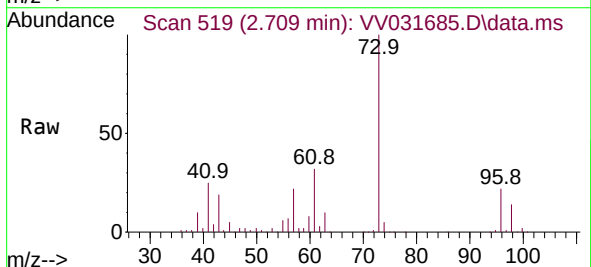
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050389

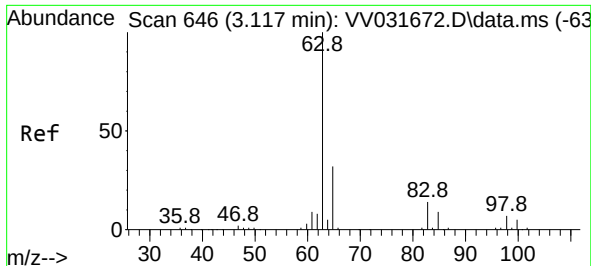
Tgt Ion: 96 Resp: 132604  
Ion Ratio Lower Upper  
96 100  
61 146.5 101.6 188.6  
98 62.4 44.7 82.9



#18  
Methyl tert-butyl Ether  
Concen: 51.877 ug/L  
RT: 2.709 min Scan# 519  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

Tgt Ion: 73 Resp: 400002  
Ion Ratio Lower Upper  
73 100  
43 19.4 15.0 22.4  
57 22.6 18.3 27.5





#19

1,1-Dichloroethane

Concen: 54.520 ug/L

RT: 3.114 min Scan# 64

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

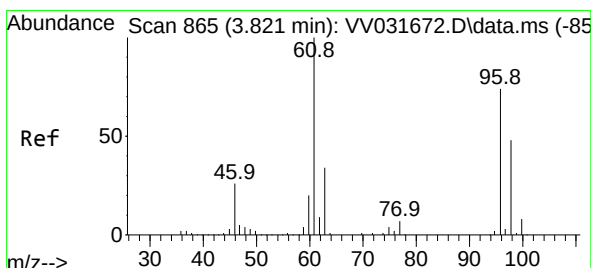
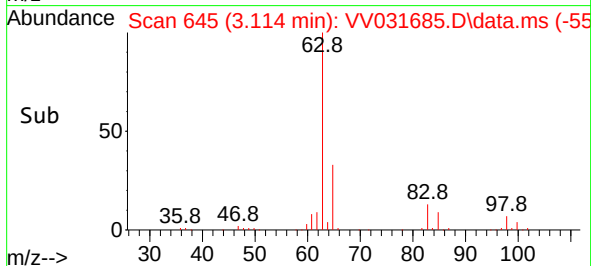
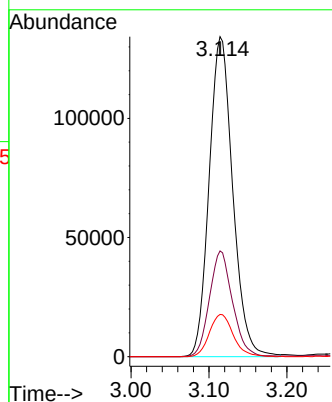
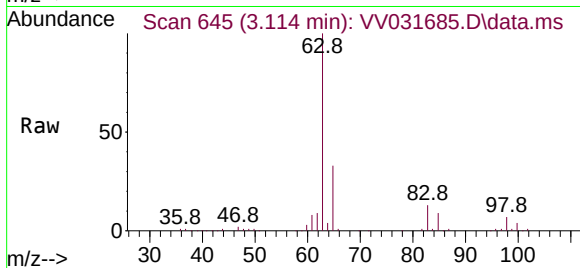
Tgt Ion: 63 Resp: 282403

Ion Ratio Lower Upper

63 100

65 33.1 22.3 41.5

83 13.8 10.6 19.6



#20

cis-1,2-Dichloroethene

Concen: 52.163 ug/L

RT: 3.818 min Scan# 864

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

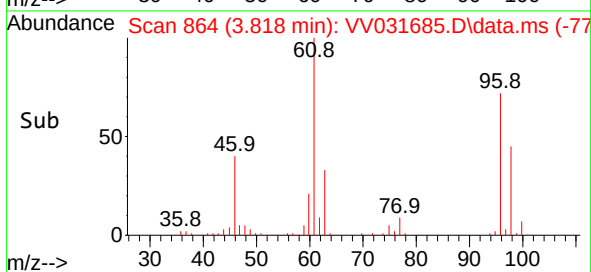
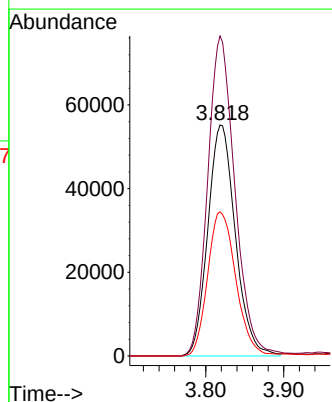
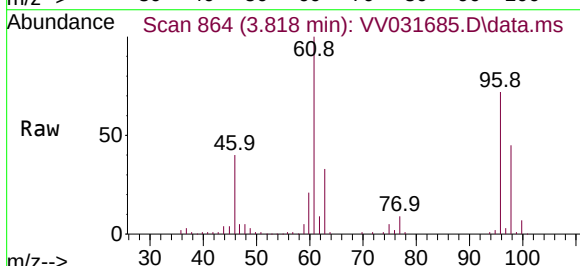
Tgt Ion: 96 Resp: 135579

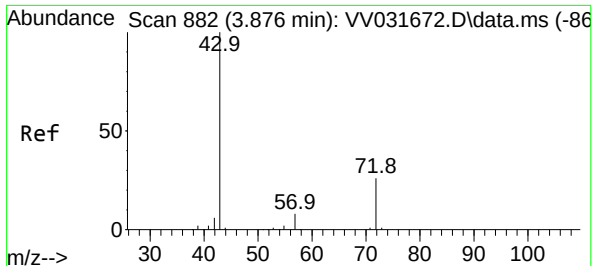
Ion Ratio Lower Upper

96 100

61 138.5 90.6 168.2

98 62.4 43.8 81.3

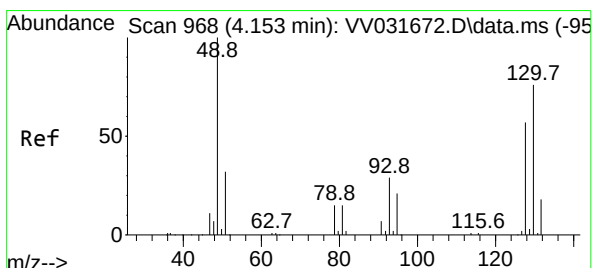
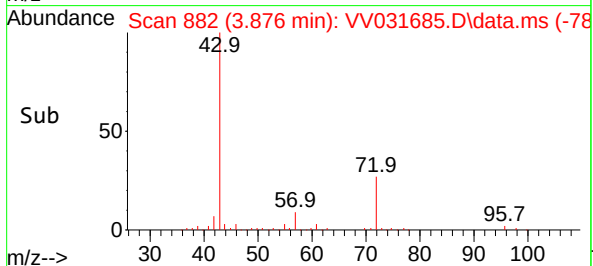
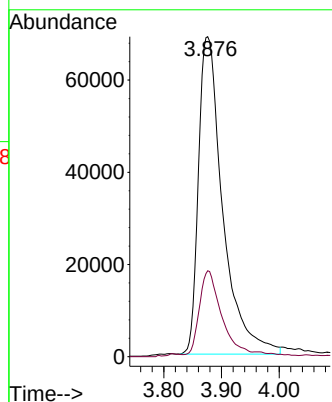
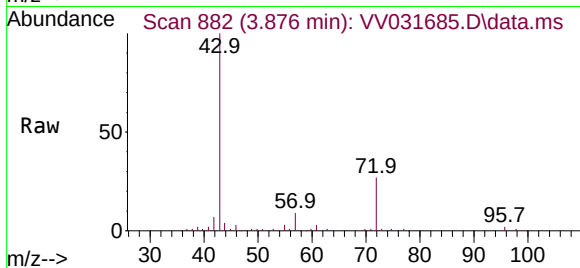




#22  
2-Butanone  
Concen: 101.270 ug/L  
RT: 3.876 min Scan# 882  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

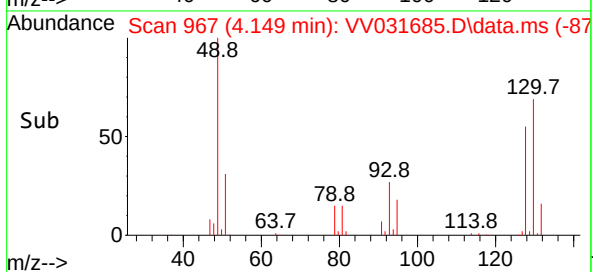
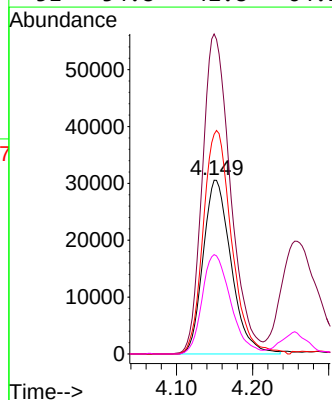
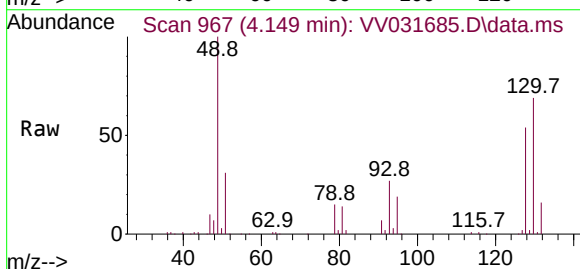
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050389

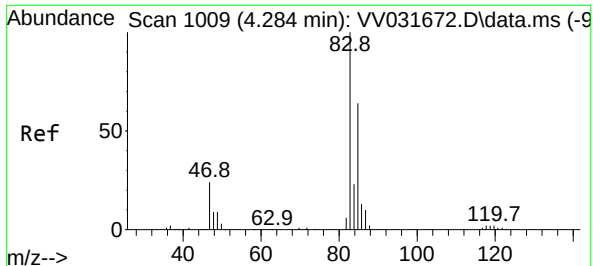
Tgt Ion: 43 Resp: 201483  
Ion Ratio Lower Upper  
43 100  
72 23.7 12.7 38.0



#23  
Bromochloromethane  
Concen: 55.335 ug/L  
RT: 4.149 min Scan# 967  
Delta R.T. -0.003 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

Tgt Ion:128 Resp: 78199  
Ion Ratio Lower Upper  
128 100  
49 176.6 117.9 218.9  
130 123.6 89.1 165.5  
51 54.8 42.8 64.2





#25

Chloroform

Concen: 55.908 ug/L

RT: 4.281 min Scan# 1009

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

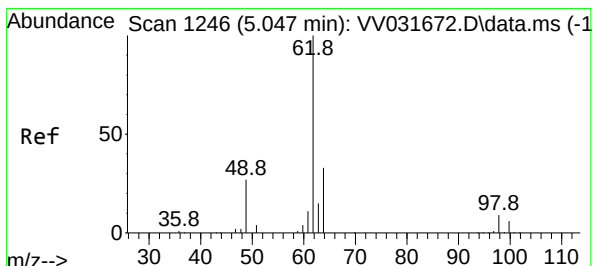
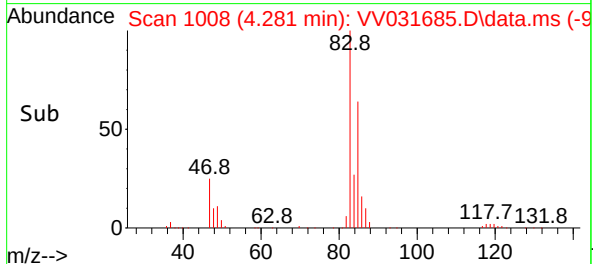
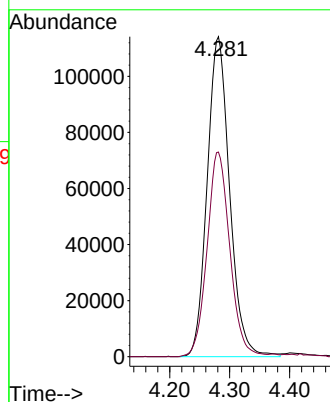
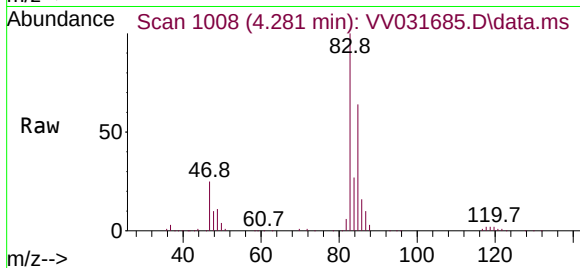
VSTD050389

Tgt Ion: 83 Resp: 297030

Ion Ratio Lower Upper

83 100

85 64.0 45.1 83.9



#27

1,2-Dichloroethane

Concen: 55.976 ug/L

RT: 5.043 min Scan# 1245

Delta R.T. -0.003 min

Lab File: VV031685.D

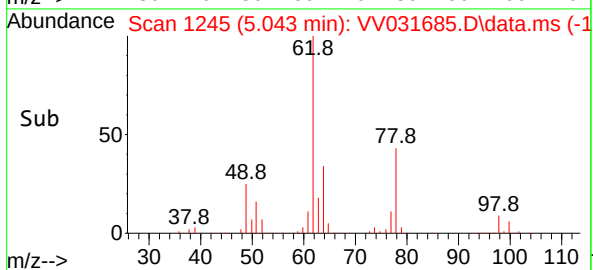
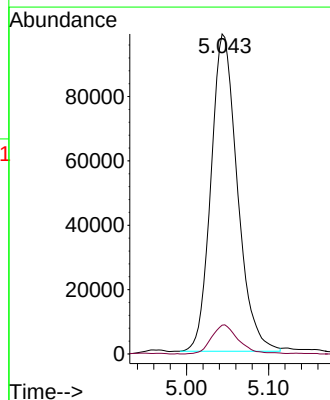
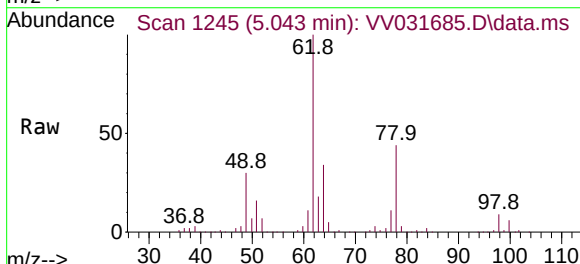
Acq: 12 Jul 2023 10:49

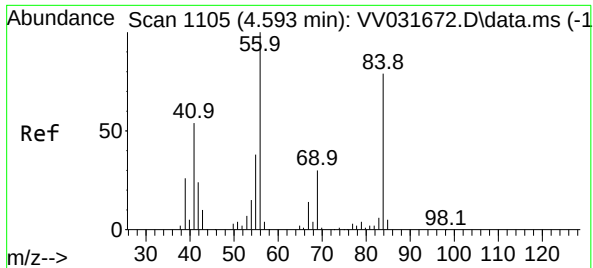
Tgt Ion: 62 Resp: 220940

Ion Ratio Lower Upper

62 100

98 9.0 7.5 11.3





#29

Cyclohexane

Concen: 52.076 ug/L

RT: 4.590 min Scan# 1105

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

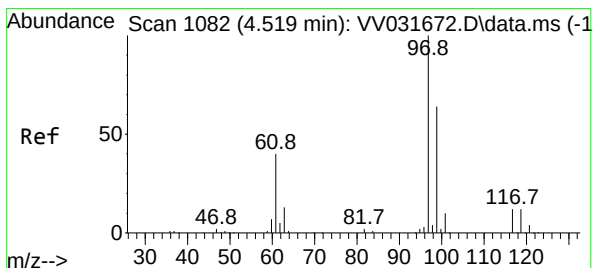
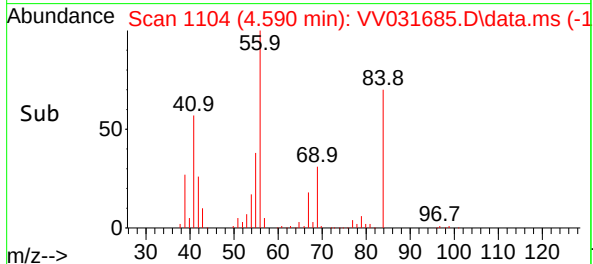
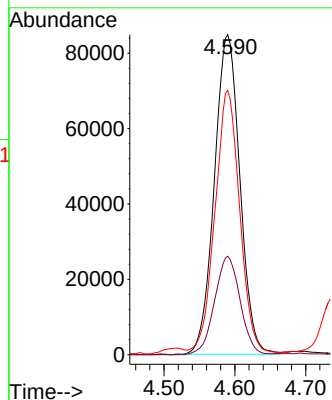
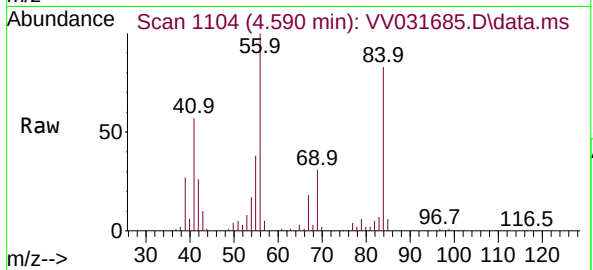
Tgt Ion: 56 Resp: 212505

Ion Ratio Lower Upper

56 100

69 30.7 24.1 36.1

84 80.2 63.6 95.4



#30

1,1,1-Trichloroethane

Concen: 52.912 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

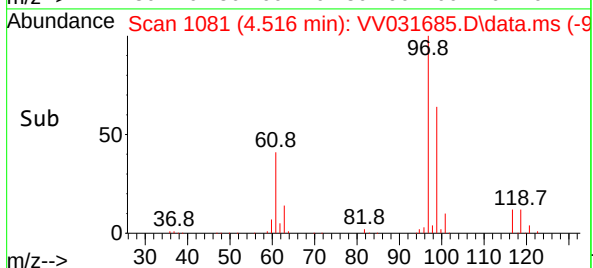
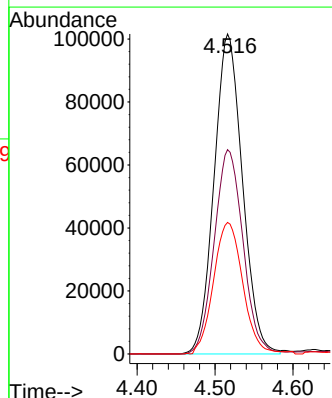
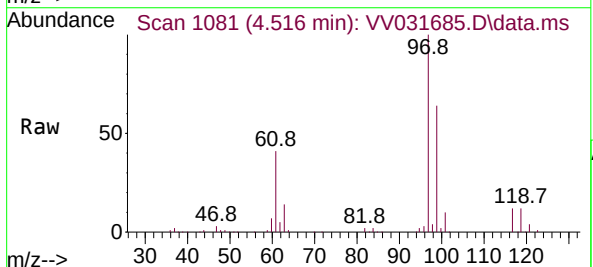
Tgt Ion: 97 Resp: 257344

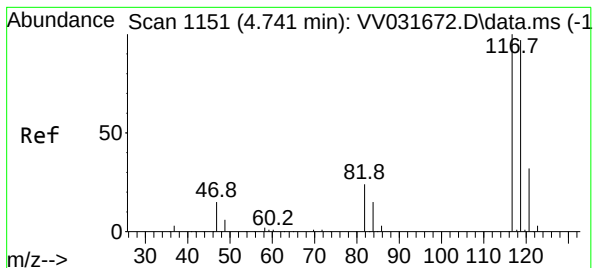
Ion Ratio Lower Upper

97 100

99 64.8 51.5 77.3

61 42.3 32.2 48.2





#31

Carbon tetrachloride

Concen: 52.687 ug/L

RT: 4.738 min Scan# 1150

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

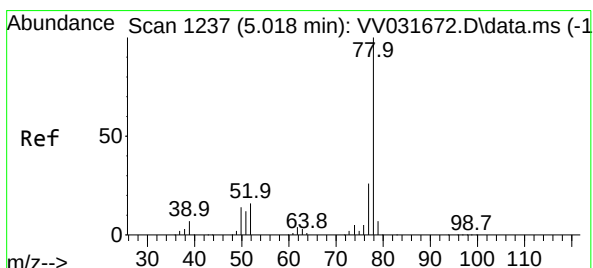
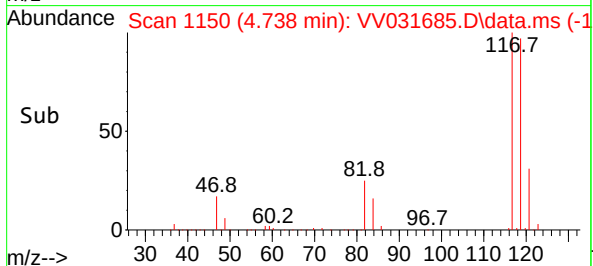
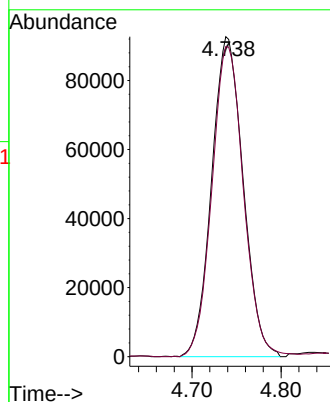
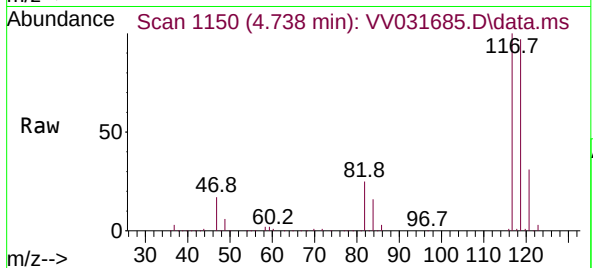
VSTD050389

Tgt Ion:117 Resp: 227112

Ion Ratio Lower Upper

117 100

119 97.4 78.0 117.0



#33

Benzene

Concen: 54.819 ug/L

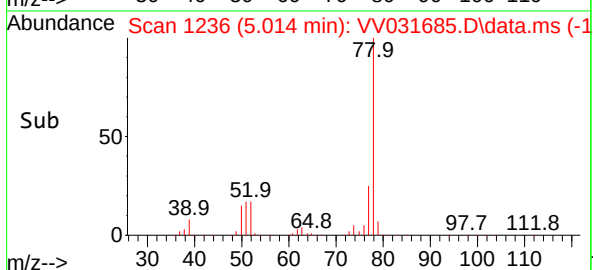
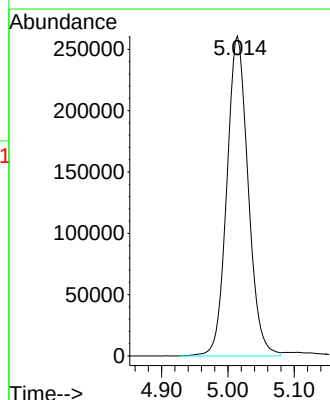
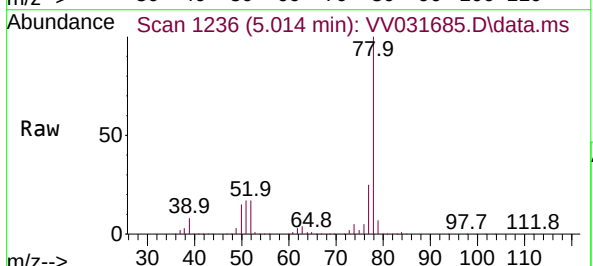
RT: 5.014 min Scan# 1236

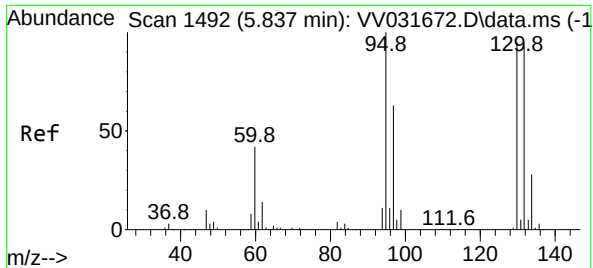
Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Tgt Ion: 78 Resp: 581897





#34

Trichloroethene

Concen: 53.302 ug/L

RT: 5.837 min Scan# 1492

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

Tgt Ion: 95 Resp: 159195

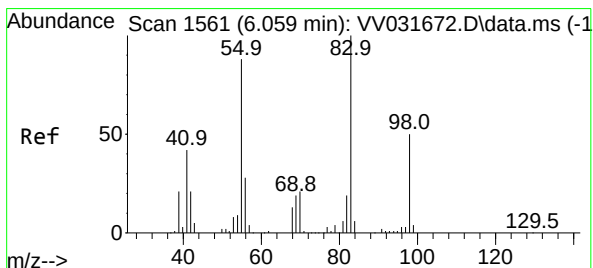
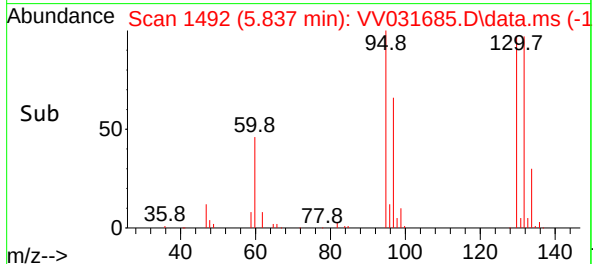
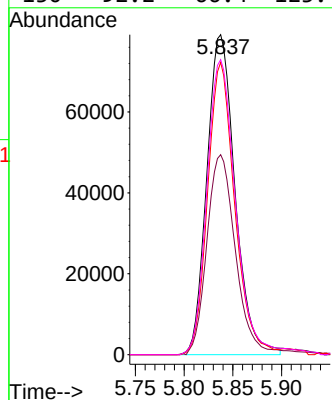
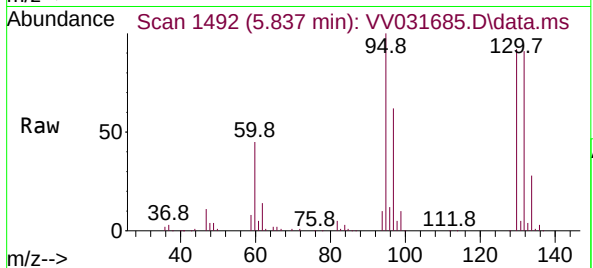
Ion Ratio Lower Upper

95 100

97 62.5 47.0 87.2

132 95.7 64.8 120.4

130 92.2 66.4 123.4



#35

Methylcyclohexane

Concen: 56.401 ug/L

RT: 6.056 min Scan# 1560

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

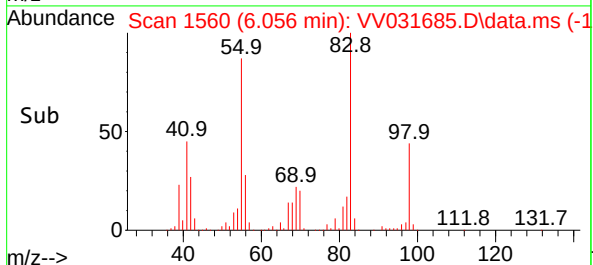
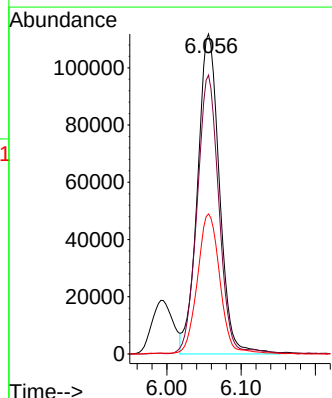
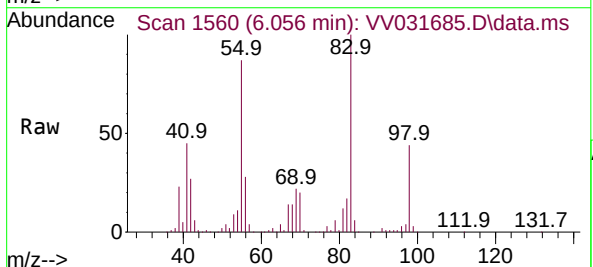
Tgt Ion: 83 Resp: 229278

Ion Ratio Lower Upper

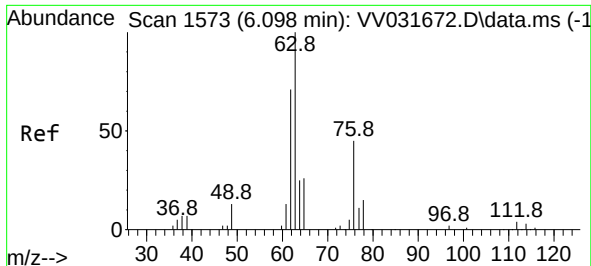
83 100

55 86.8 69.4 104.2

98 44.4 38.2 57.2







#37

1,2-Dichloropropane

Concen: 55.531 ug/L

RT: 6.098 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

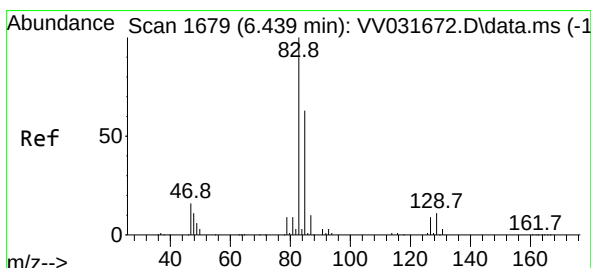
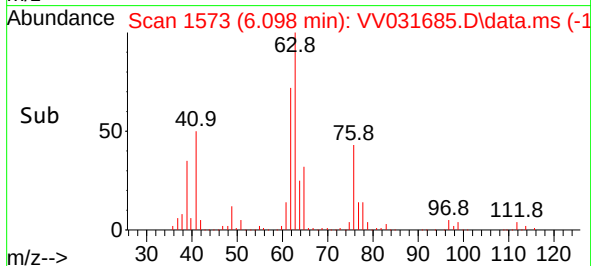
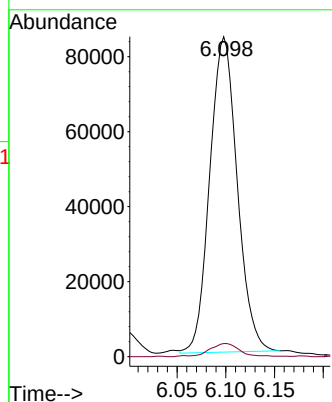
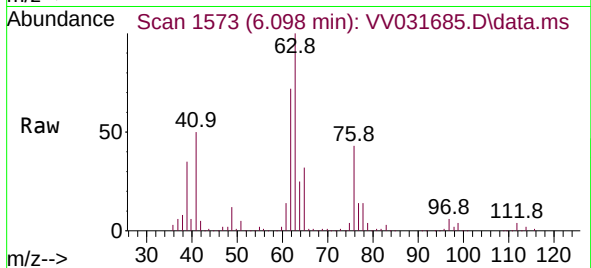
VSTD050389

Tgt Ion: 63 Resp: 164782

Ion Ratio Lower Upper

63 100

112 3.9 3.7 5.5



#38

Bromodichloromethane

Concen: 55.015 ug/L

RT: 6.436 min Scan# 1678

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

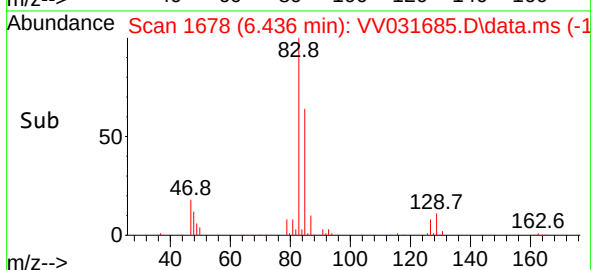
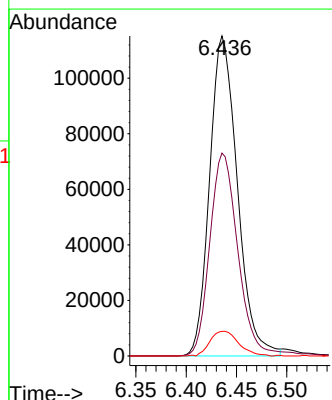
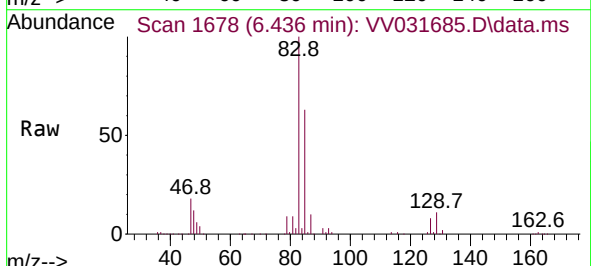
Tgt Ion: 83 Resp: 221300

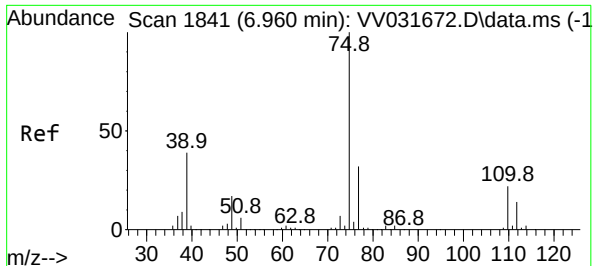
Ion Ratio Lower Upper

83 100

85 63.4 44.2 82.0

127 8.6 7.8 11.6





#39

cis-1,3-Dichloropropene

Concen: 49.553 ug/L

RT: 6.956 min Scan# 11

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

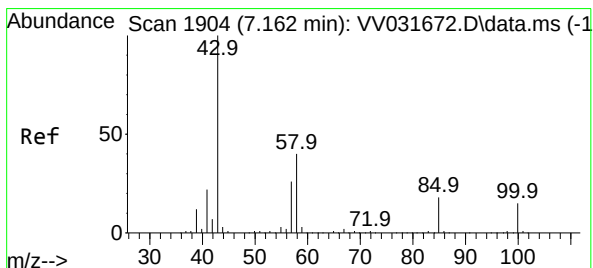
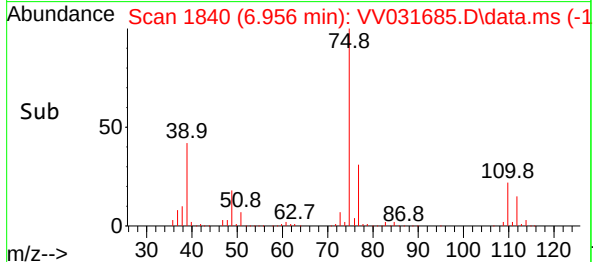
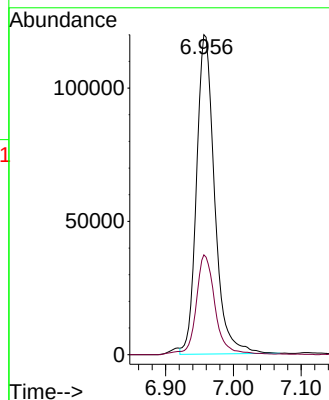
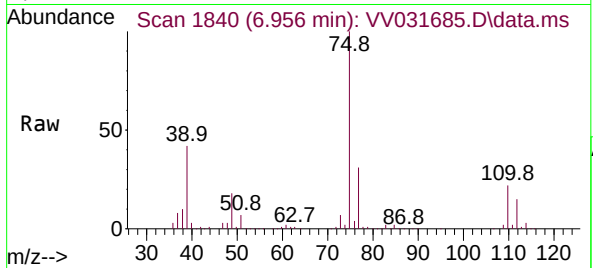
VSTD050389

Tgt Ion: 75 Resp: 222442

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 113.114 ug/L

RT: 7.162 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

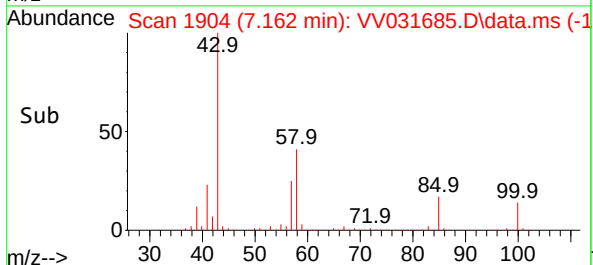
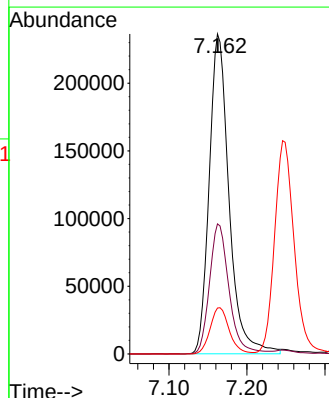
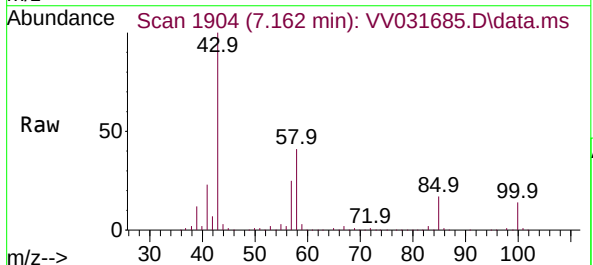
Tgt Ion: 43 Resp: 417478

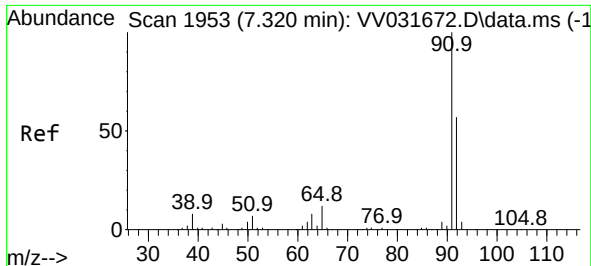
Ion Ratio Lower Upper

43 100

58 39.9 32.1 48.1

100 14.0 12.1 18.1





#42

Toluene

Concen: 57.873 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

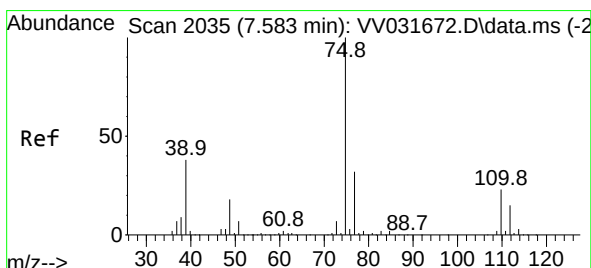
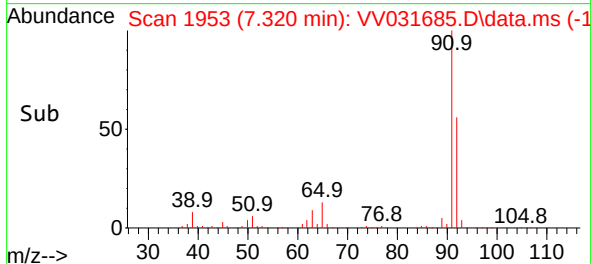
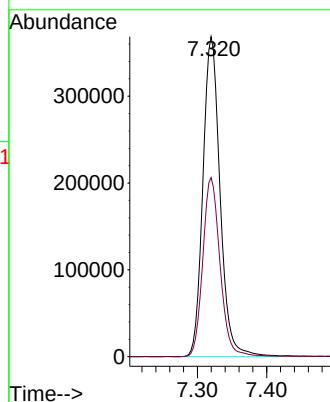
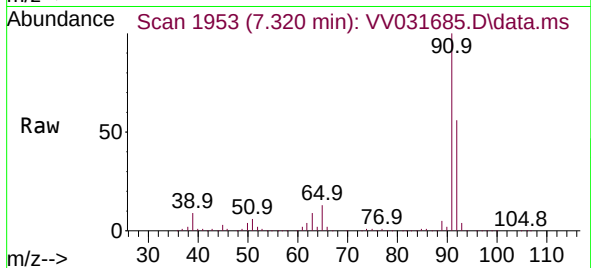
VSTD050389

Tgt Ion: 91 Resp: 634408

Ion Ratio Lower Upper

91 100

92 55.9 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 53.241 ug/L

RT: 7.583 min Scan# 2035

Delta R.T. 0.000 min

Lab File: VV031685.D

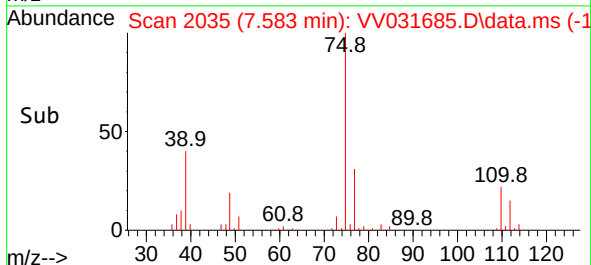
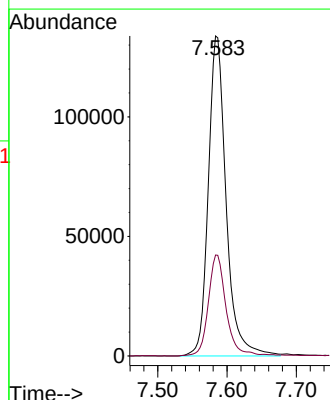
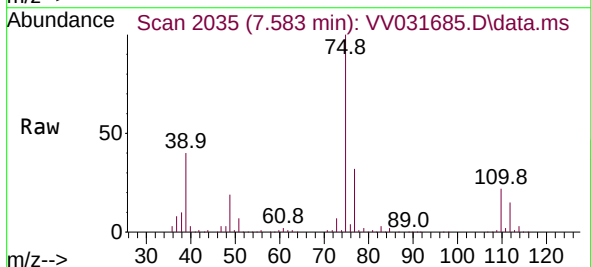
Acq: 12 Jul 2023 10:49

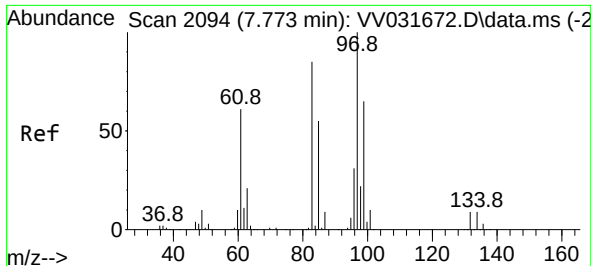
Tgt Ion: 75 Resp: 238415

Ion Ratio Lower Upper

75 100

77 31.5 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 55.096 ug/L

RT: 7.773 min Scan# 2094

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

Tgt Ion: 97 Resp: 161865

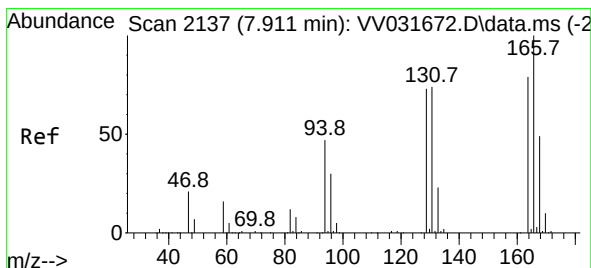
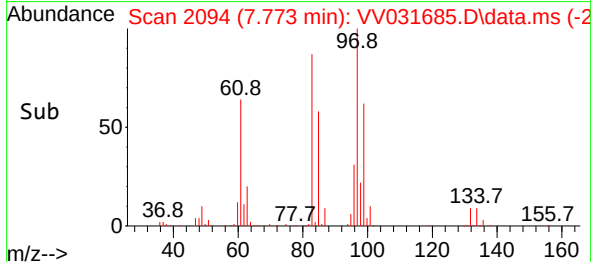
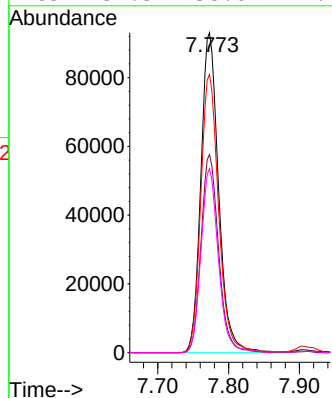
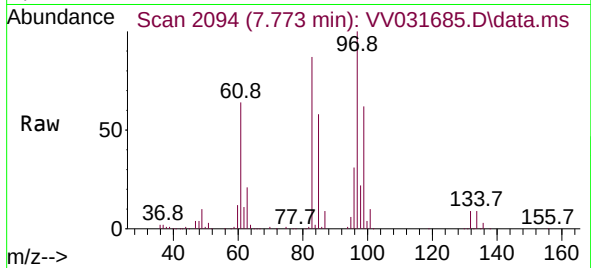
Ion Ratio Lower Upper

97 100

99 61.9 45.2 84.0

83 86.9 59.5 110.5

85 57.5 38.6 71.8



#46

Tetrachloroethene

Concen: 50.807 ug/L

RT: 7.911 min Scan# 2137

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Tgt Ion:164 Resp: 115368

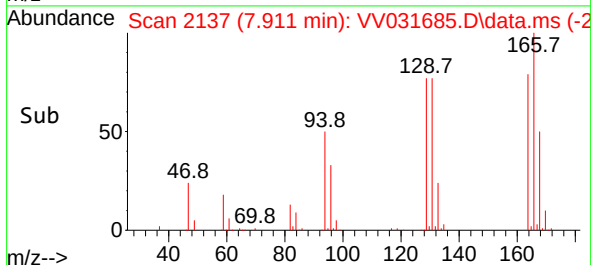
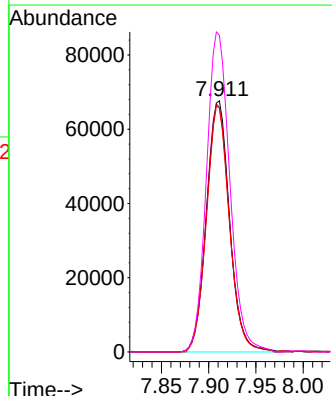
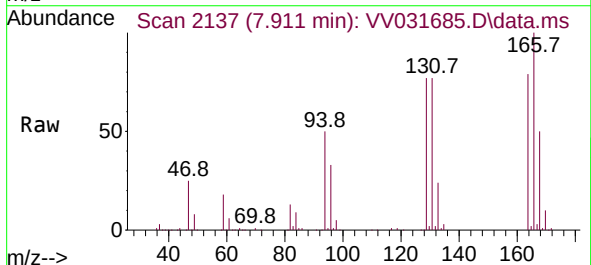
Ion Ratio Lower Upper

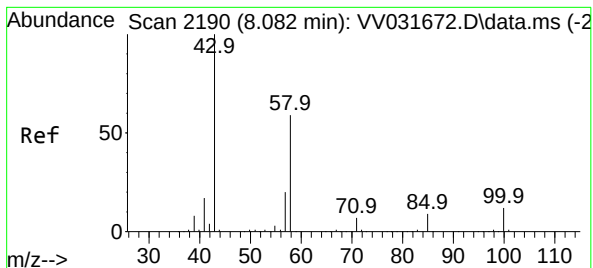
164 100

129 99.9 65.2 121.0

131 97.1 67.1 124.7

166 126.0 91.4 169.8





#48

2-Hexanone

Concen: 110.014 ug/L

RT: 8.082 min Scan# 2190

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

Tgt Ion: 43 Resp: 341252

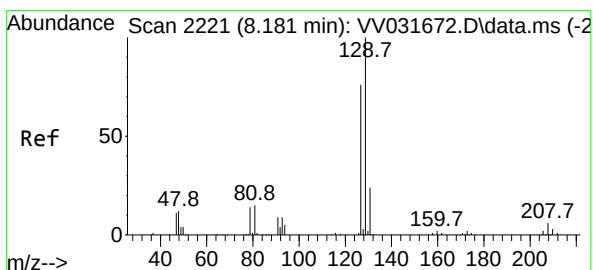
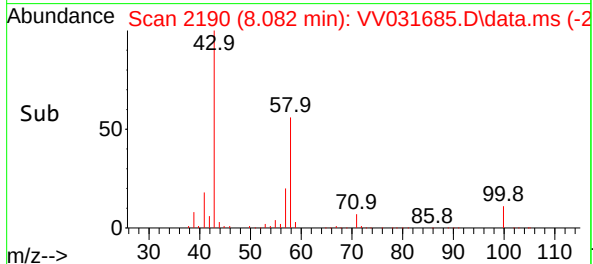
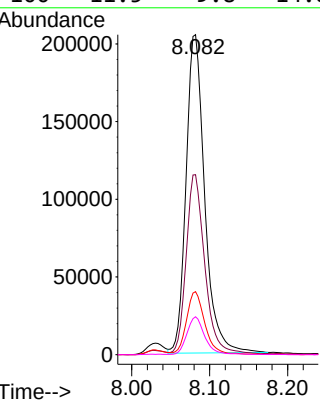
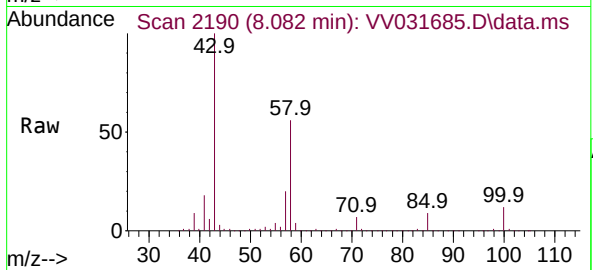
Ion Ratio Lower Upper

43 100

58 56.2 46.3 69.5

57 19.2 16.8 25.2

100 11.5 9.8 14.8



#49

Dibromochloromethane

Concen: 53.177 ug/L

RT: 8.181 min Scan# 2221

Delta R.T. -0.000 min

Lab File: VV031685.D

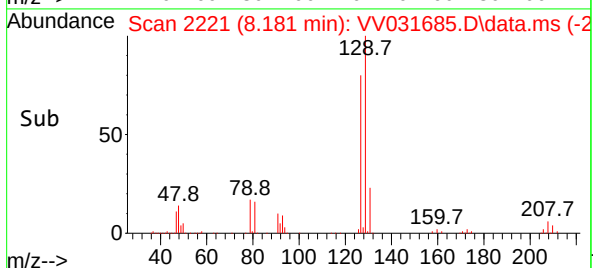
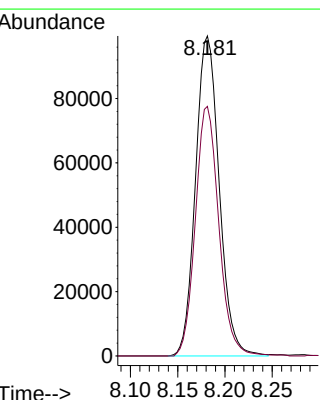
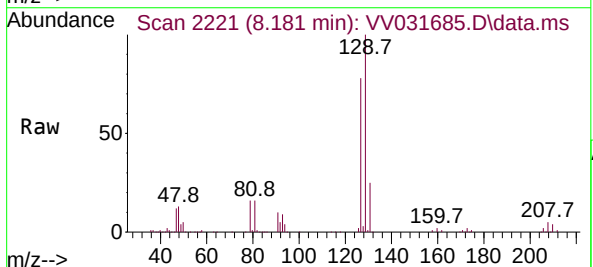
Acq: 12 Jul 2023 10:49

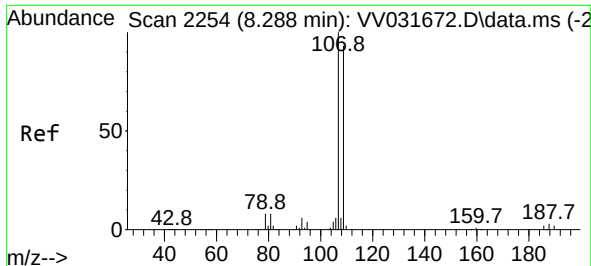
Tgt Ion:129 Resp: 173503

Ion Ratio Lower Upper

129 100

127 79.6 55.2 102.6





#50

1,2-Dibromoethane

Concen: 52.932 ug/L

RT: 8.288 min Scan# 21

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

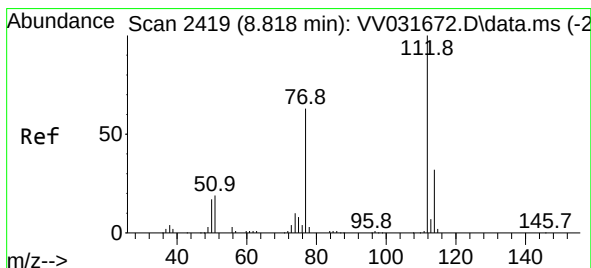
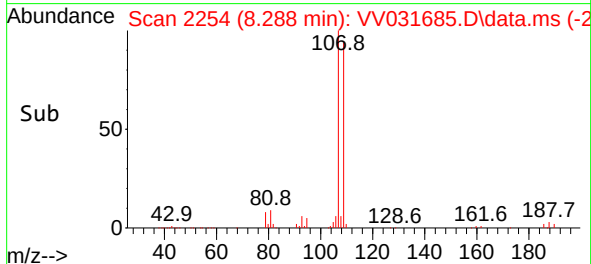
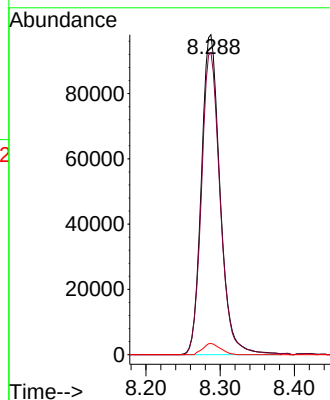
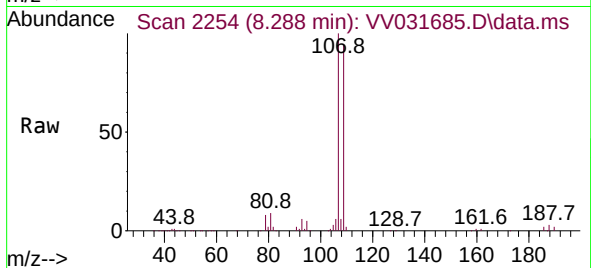
Tgt Ion:107 Resp: 171358

Ion Ratio Lower Upper

107 100

109 94.4 65.4 121.4

188 3.5 2.8 4.2



#51

Chlorobenzene

Concen: 51.481 ug/L

RT: 8.818 min Scan# 2419

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

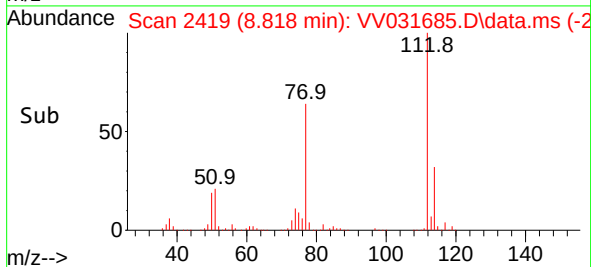
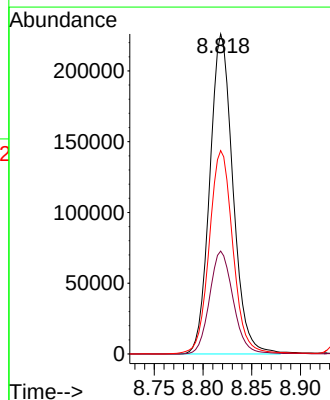
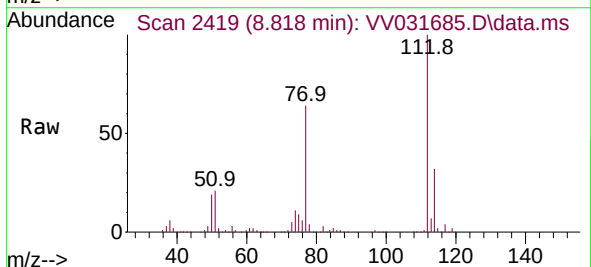
Tgt Ion:112 Resp: 374076

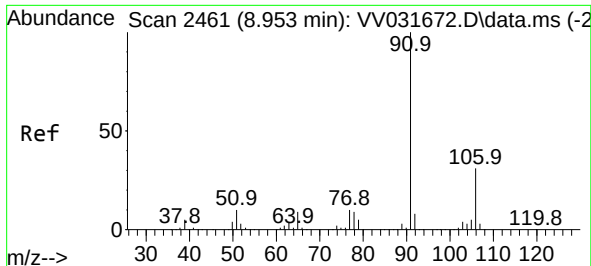
Ion Ratio Lower Upper

112 100

114 32.2 22.2 41.2

77 63.6 50.6 76.0

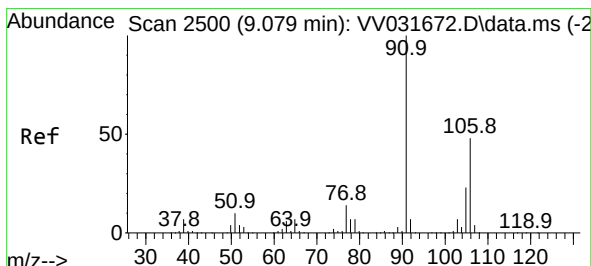
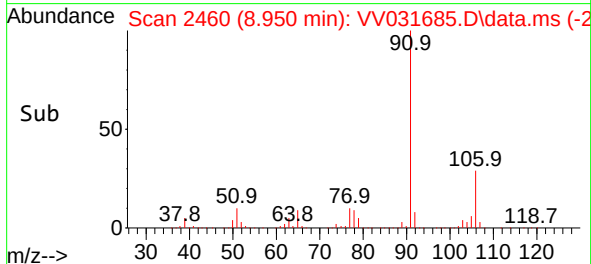
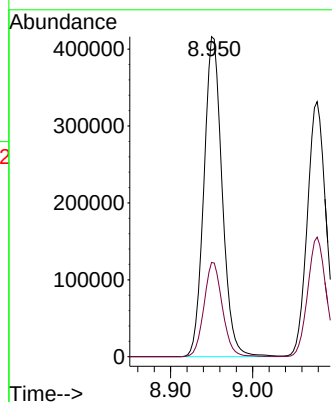
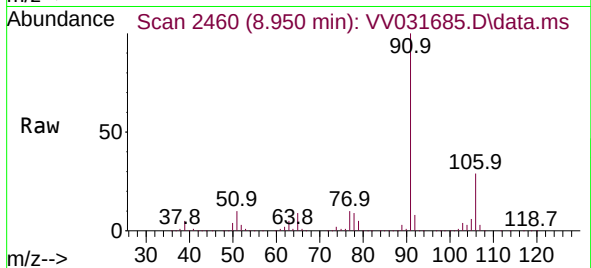




#52  
Ethylbenzene  
Concen: 54.078 ug/L  
RT: 8.950 min Scan# 2461  
Delta R.T. -0.003 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

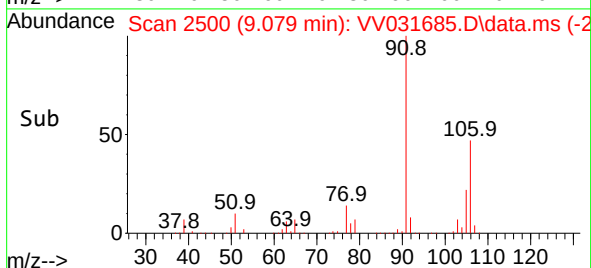
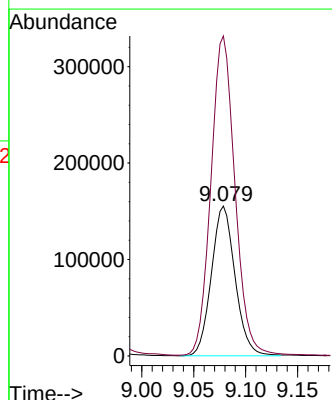
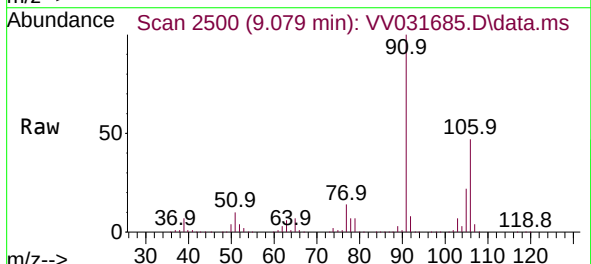
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050389

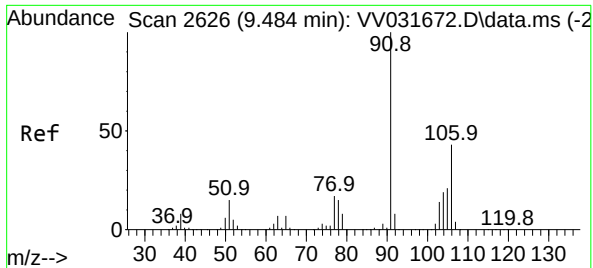
Tgt Ion: 91 Resp: 644996  
Ion Ratio Lower Upper  
91 100  
106 29.5 21.5 39.9



#53  
m,p-Xylene  
Concen: 55.965 ug/L  
RT: 9.079 min Scan# 2500  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

Tgt Ion: 106 Resp: 246093  
Ion Ratio Lower Upper  
106 100  
91 213.5 145.6 270.4

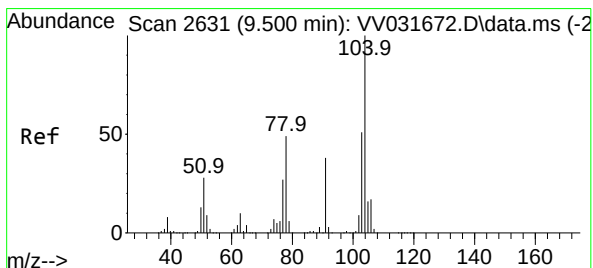
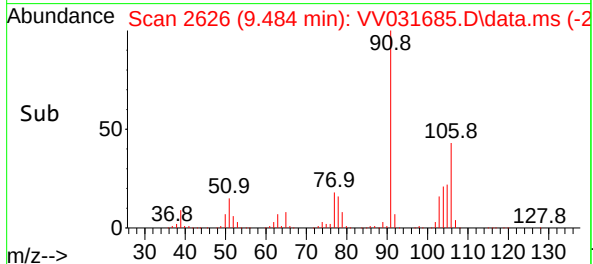
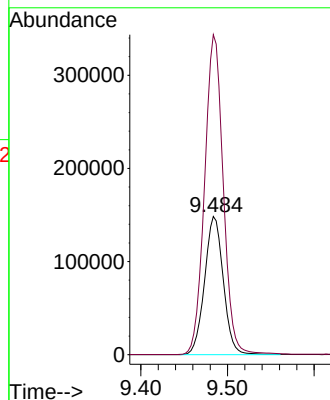
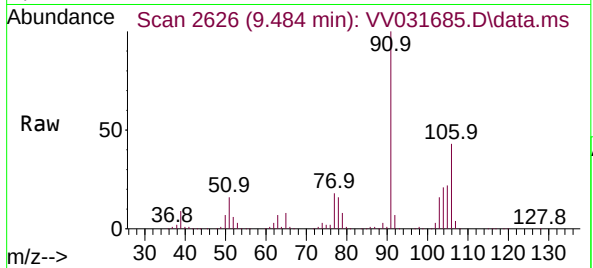




#54  
o-Xylene  
Concen: 54.831 ug/L  
RT: 9.484 min Scan# 2626  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

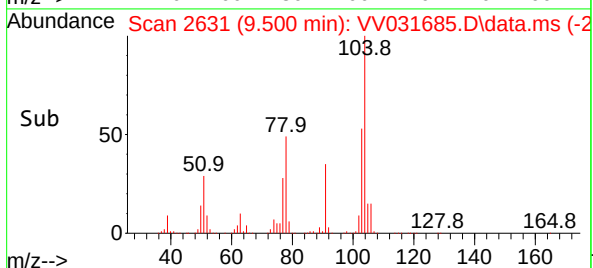
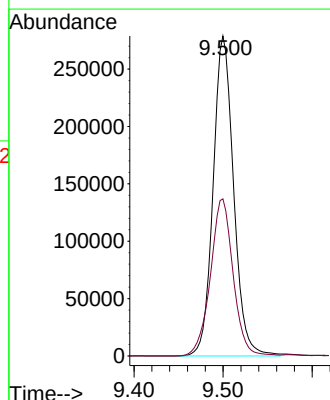
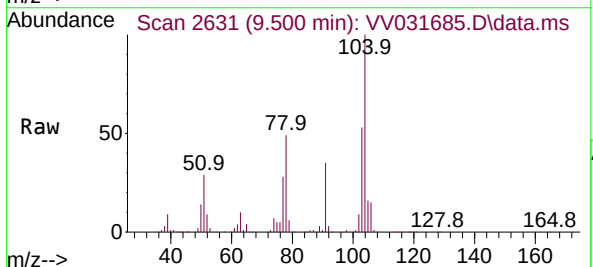
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050389

Tgt Ion:106 Resp: 223300  
Ion Ratio Lower Upper  
106 100  
91 231.5 163.0 302.6

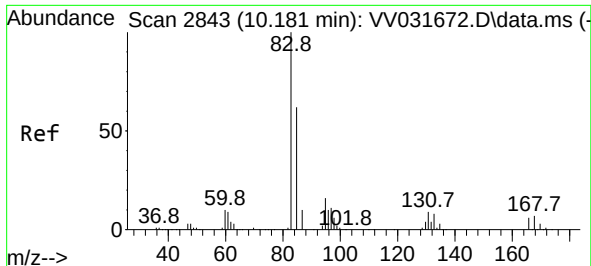


#55  
Styrene  
Concen: 59.437 ug/L  
RT: 9.500 min Scan# 2631  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

Tgt Ion:104 Resp: 445611  
Ion Ratio Lower Upper  
104 100  
78 49.1 34.4 64.0







#57

1,1,2,2-Tetrachloroethane

Concen: 52.496 ug/L

RT: 10.181 min Scan# 2843

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

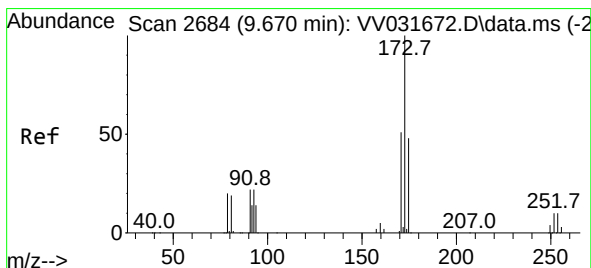
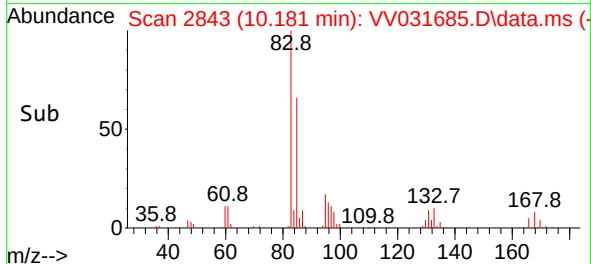
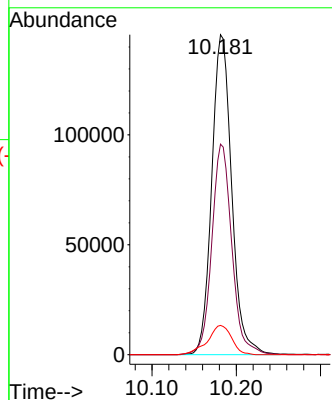
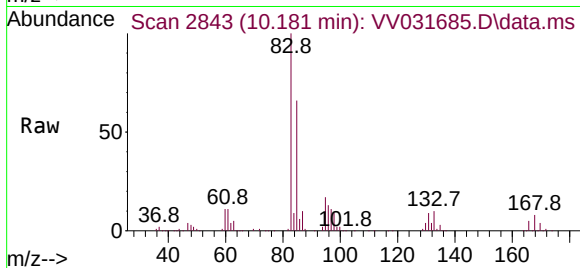
Tgt Ion: 83 Resp: 239438

Ion Ratio Lower Upper

83 100

85 65.8 43.4 80.6

131 9.2 10.9 16.3#



#59

Bromoform

Concen: 52.535 ug/L

RT: 9.670 min Scan# 2684

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

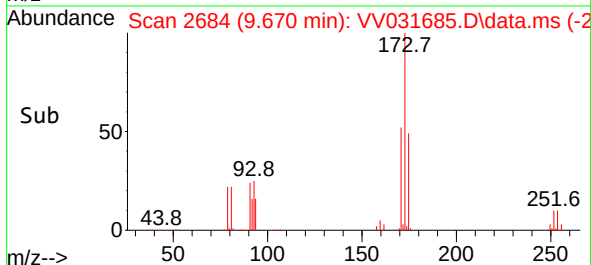
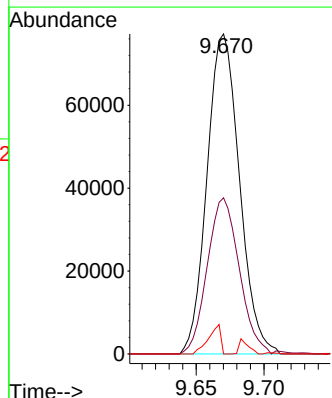
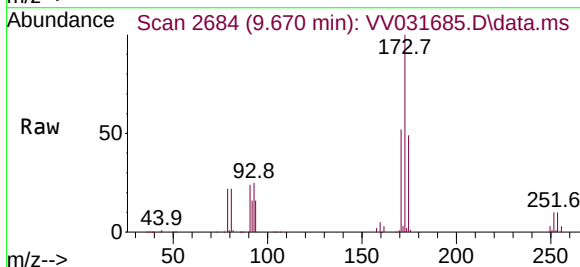
Tgt Ion: 173 Resp: 128743

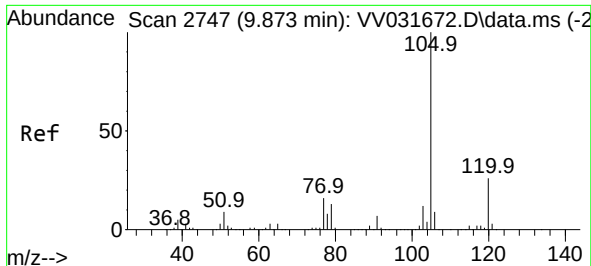
Ion Ratio Lower Upper

173 100

175 47.9 38.6 58.0

254 3.5 6.9 10.3#

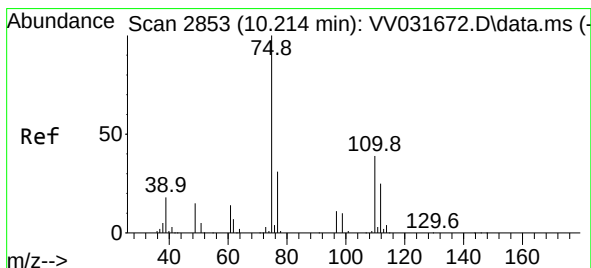
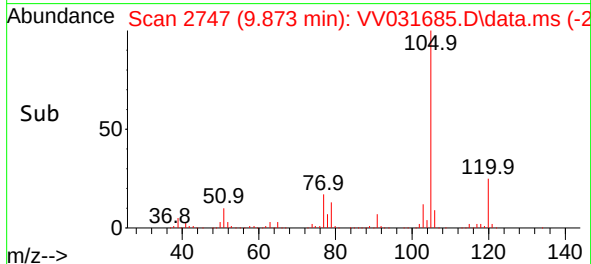
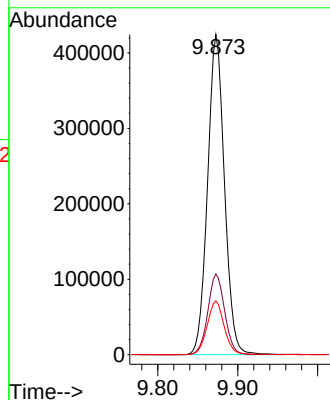
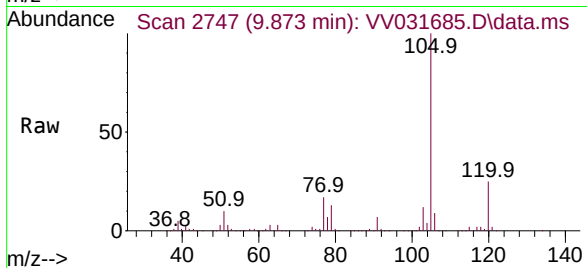




#60  
Isopropylbenzene  
Concen: 53.320 ug/L  
RT: 9.873 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

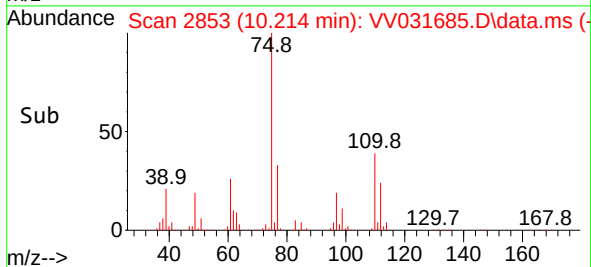
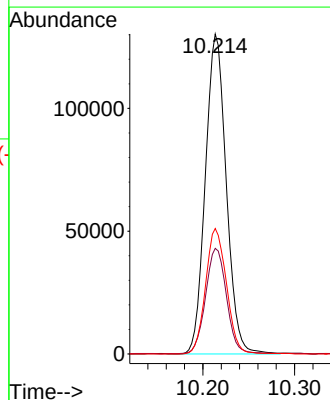
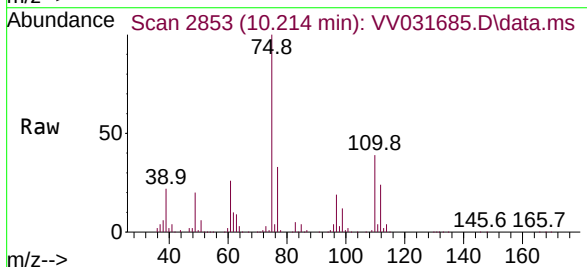
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050389

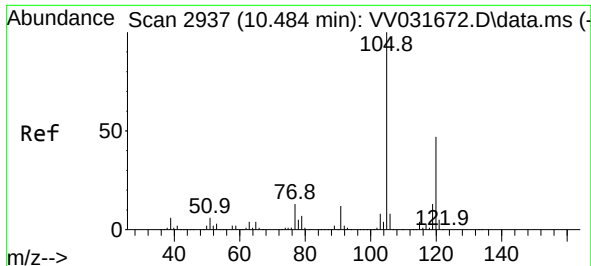
Tgt Ion:105 Resp: 624399  
Ion Ratio Lower Upper  
105 100  
120 25.1 20.6 30.8  
77 17.0 13.2 19.8



#61  
1,2,3-Trichloropropane  
Concen: 51.859 ug/L  
RT: 10.214 min Scan# 2853  
Delta R.T. 0.000 min  
Lab File: VV031685.D  
Acq: 12 Jul 2023 10:49

Tgt Ion: 75 Resp: 206843  
Ion Ratio Lower Upper  
75 100  
77 32.8 25.1 37.7  
110 39.0 31.4 47.0

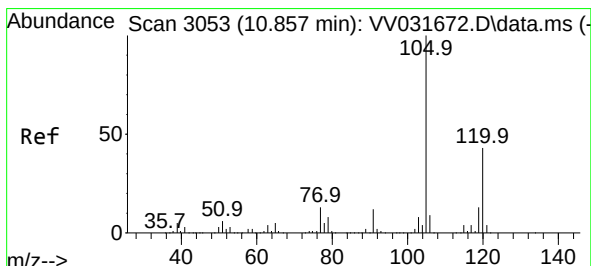
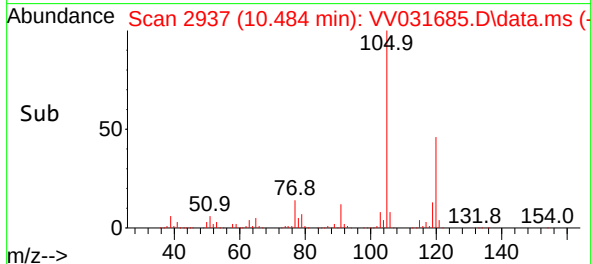
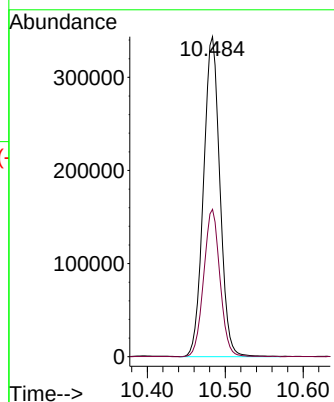
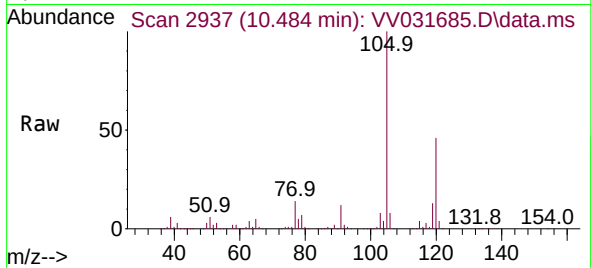




#62  
 1,3,5-Trimethylbenzene  
 Concen: 52.431 ug/L  
 RT: 10.484 min Scan# 2937  
 Delta R.T. 0.000 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

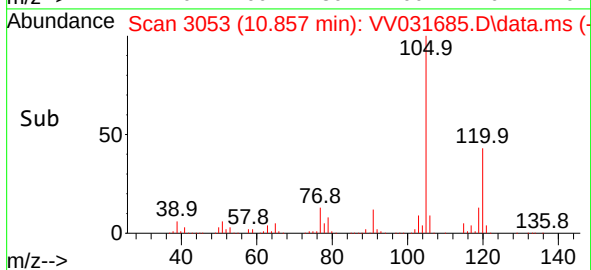
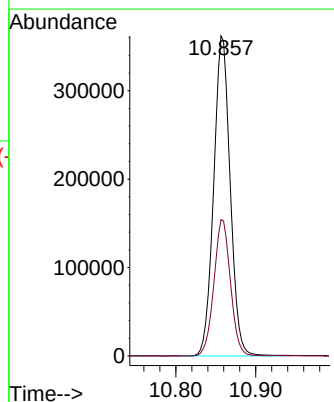
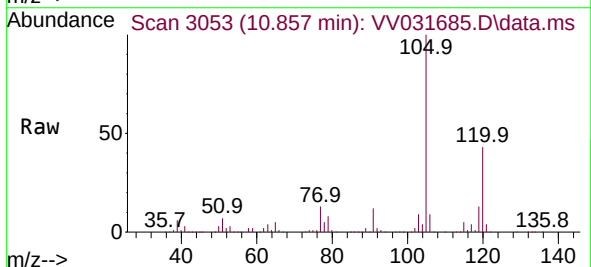
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050389

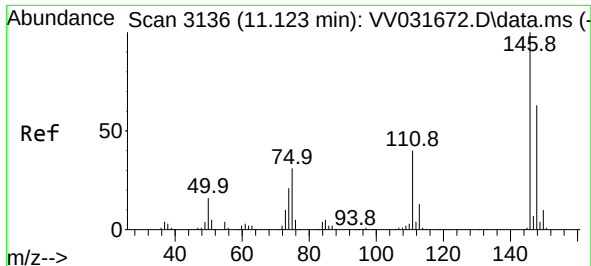
Tgt Ion:105 Resp: 501688  
 Ion Ratio Lower Upper  
 105 100  
 120 45.7 37.4 56.0



#63  
 1,2,4-Trimethylbenzene  
 Concen: 54.428 ug/L  
 RT: 10.857 min Scan# 3053  
 Delta R.T. -0.000 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

Tgt Ion:105 Resp: 518728  
 Ion Ratio Lower Upper  
 105 100  
 120 42.7 34.7 52.1





#64

1,3-Dichlorobenzene

Concen: 52.612 ug/L

RT: 11.123 min Scan# 3136

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

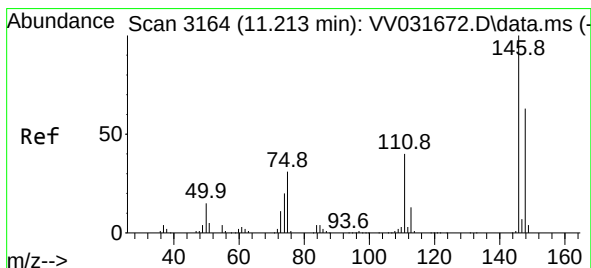
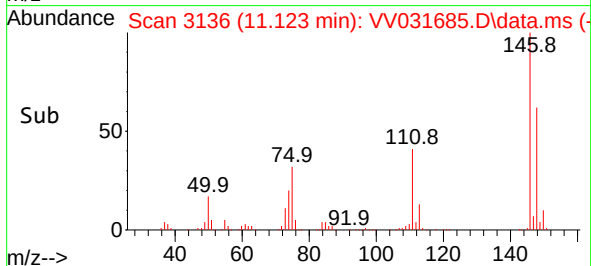
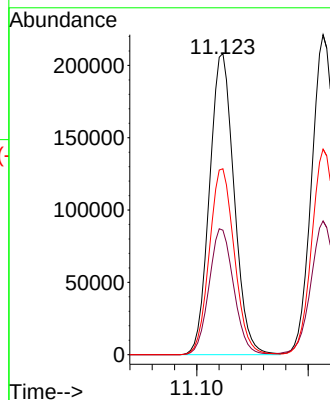
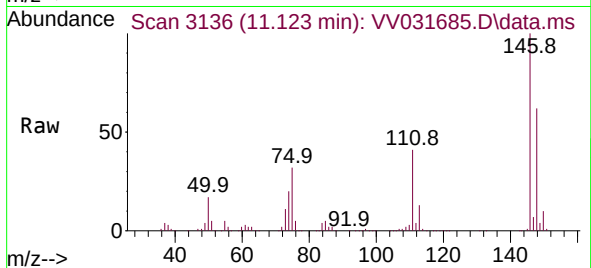
Tgt Ion:146 Resp: 320009

Ion Ratio Lower Upper

146 100

111 41.3 28.3 52.5

148 61.7 44.2 82.2



#65

1,4-Dichlorobenzene

Concen: 51.261 ug/L

RT: 11.213 min Scan# 3164

Delta R.T. -0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

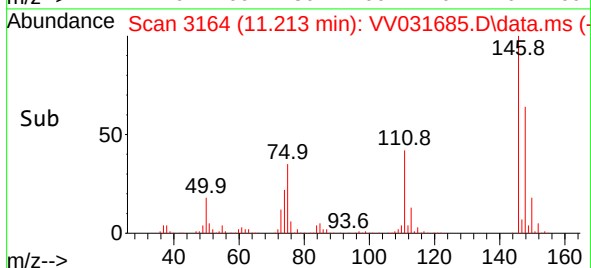
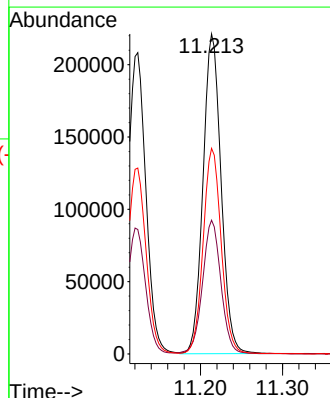
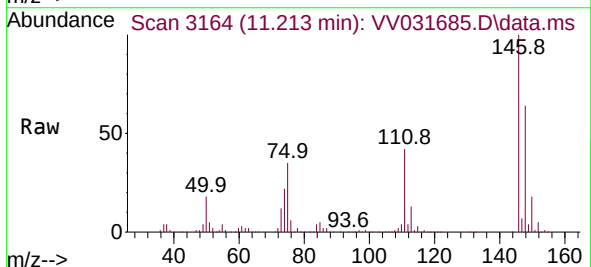
Tgt Ion:146 Resp: 338162

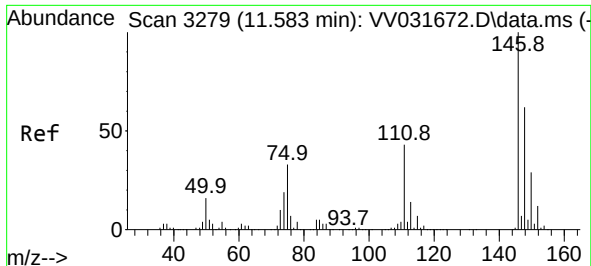
Ion Ratio Lower Upper

146 100

111 41.8 28.3 52.7

148 64.2 44.1 81.9





#67

1,2-Dichlorobenzene

Concen: 51.297 ug/L

RT: 11.583 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

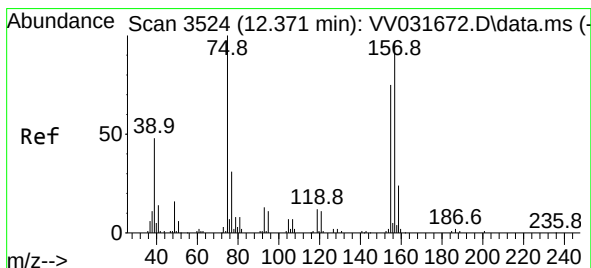
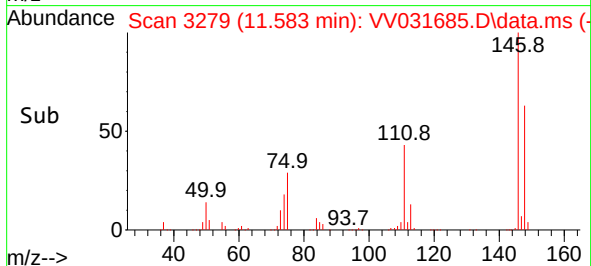
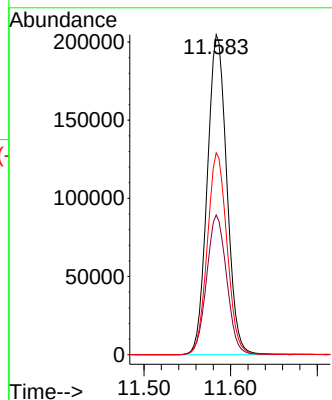
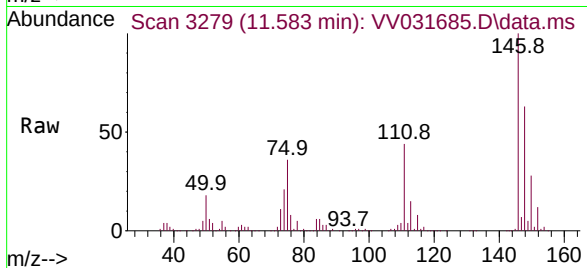
Tgt Ion:146 Resp: 320001

Ion Ratio Lower Upper

146 100

111 43.7 34.8 52.2

148 63.1 49.8 74.6



#68

1,2-Dibromo-3-chloropropane

Concen: 48.755 ug/L

RT: 12.368 min Scan# 3523

Delta R.T. -0.003 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

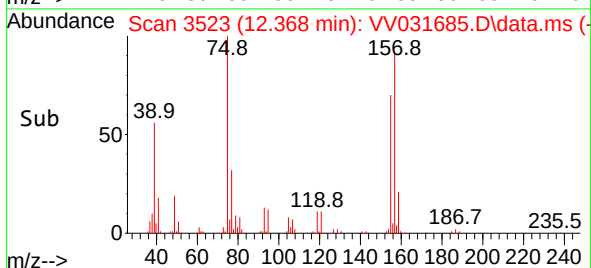
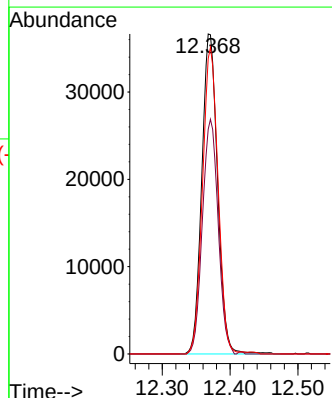
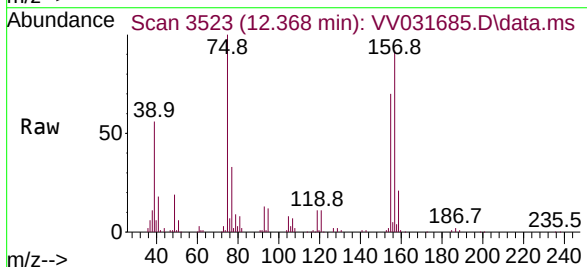
Tgt Ion: 75 Resp: 59335

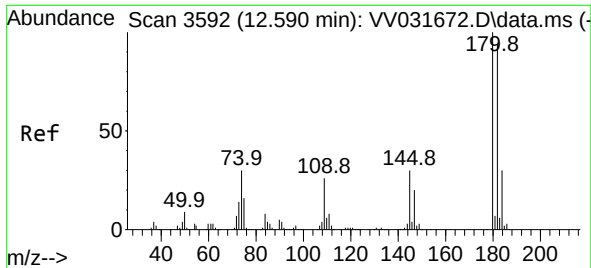
Ion Ratio Lower Upper

75 100

155 70.2 59.9 89.9

157 96.2 77.6 116.4

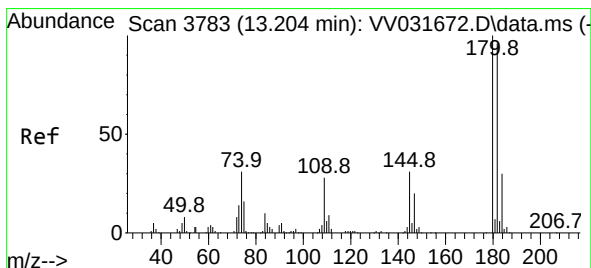
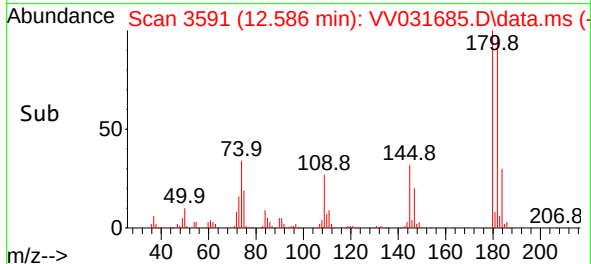
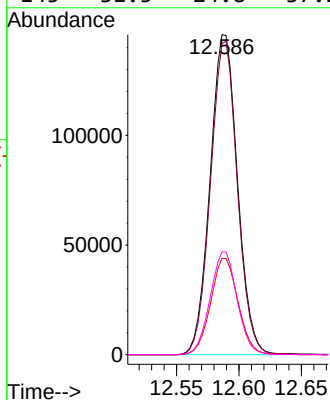
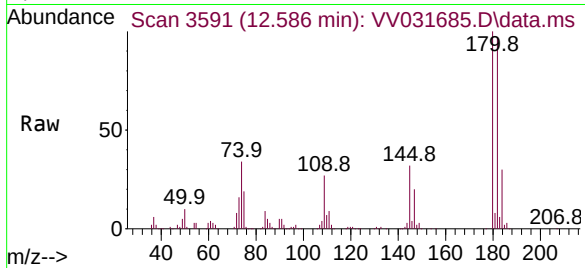




#69  
 1,3,5-Trichlorobenzene  
 Concen: 49.005 ug/L  
 RT: 12.586 min Scan# 3591  
 Delta R.T. -0.003 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

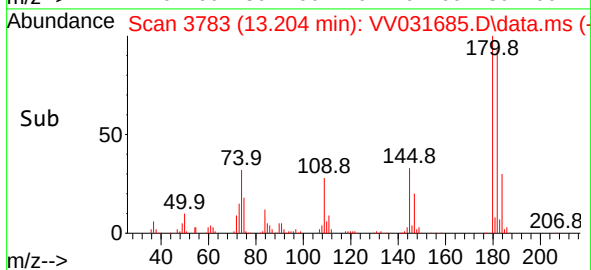
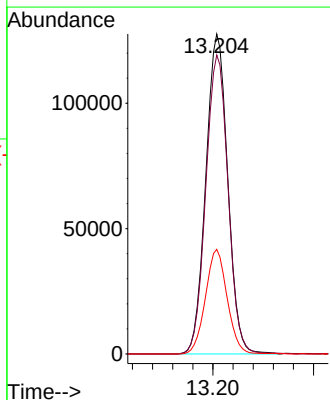
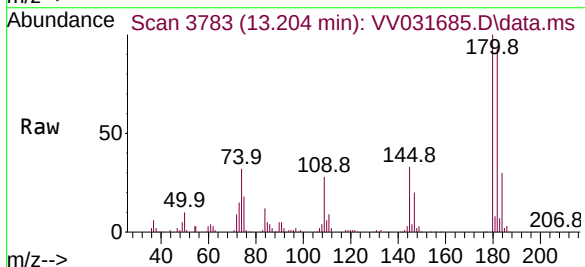
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050389

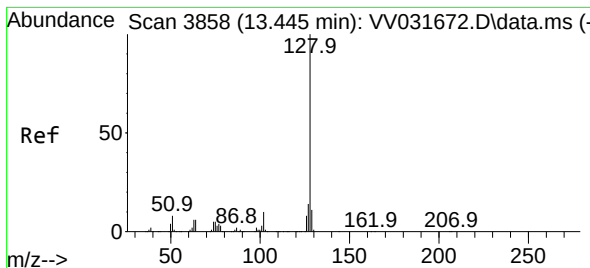
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 223296 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 96.0  | 75.5  | 113.3  |
| 184       | 30.2  | 23.7  | 35.5   |
| 145       | 31.5  | 24.8  | 37.2   |



#70  
 1,2,4-trichlorobenzene  
 Concen: 47.871 ug/L  
 RT: 13.204 min Scan# 3783  
 Delta R.T. 0.000 min  
 Lab File: VV031685.D  
 Acq: 12 Jul 2023 10:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 193281 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.5  | 76.6  | 114.8  |
| 145       | 32.4  | 25.4  | 38.2   |





#71

Naphthalene

Concen: 46.679 ug/L

RT: 13.445 min Scan# 3858

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050389

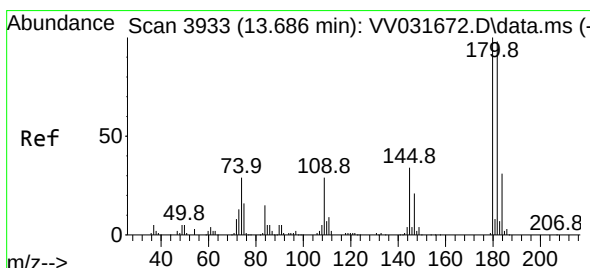
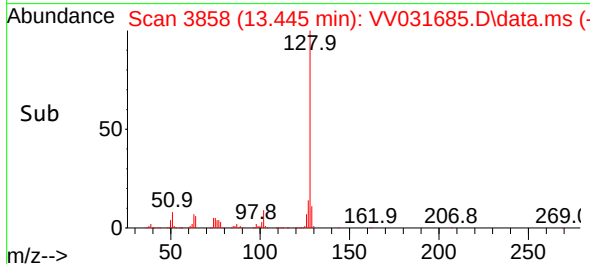
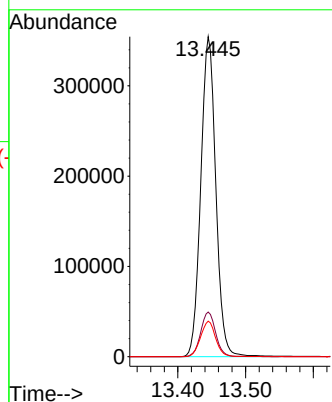
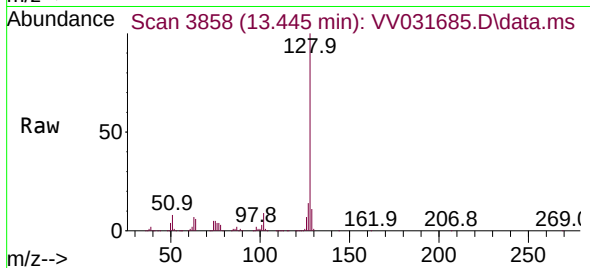
Tgt Ion:128 Resp: 545360

Ion Ratio Lower Upper

128 100

127 13.9 11.0 16.4

129 11.1 8.6 13.0



#72

1,2,3-Trichlorobenzene

Concen: 50.289 ug/L

RT: 13.686 min Scan# 3933

Delta R.T. 0.000 min

Lab File: VV031685.D

Acq: 12 Jul 2023 10:49

Tgt Ion:180 Resp: 212884

Ion Ratio Lower Upper

180 100

182 95.5 76.7 115.1

145 33.9 27.7 41.5

