

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU083123\  
 Data File : VU055033.D  
 Acq On : 31 Aug 2023 20:07  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 01 05:04:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR082823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 01 04:57:47 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.248  | 114   | 194532   | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.415  | 117   | 196401   | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.810 | 152   | 108334   | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.595  | 65    | 41165    | 6.705    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 134.000%# |
| 7) Chloroethane-d5            | 1.907  | 69    | 50599    | 6.379    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 127.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.560  | 65    | 23504    | 6.773    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 135.400%# |
| 20) 2-Butanone-d5             | 4.627  | 46    | 130436   | 39.357   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 78.720%   |
| 24) Chloroform-d              | 5.058  | 84    | 106083   | 4.658    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 93.200%   |
| 26) 1,2-Dichloroethane-d4     | 5.698  | 65    | 55064    | 4.543    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 90.800%   |
| 32) Benzene-d6                | 5.724  | 84    | 213797   | 4.843    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 96.800%   |
| 36) 1,2-Dichloropropane-d6    | 6.688  | 67    | 66781    | 4.301    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 86.000%   |
| 41) Toluene-d8                | 7.894  | 98    | 201370   | 4.763    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 95.200%   |
| 43) trans-1,3-Dichloroprop... | 8.180  | 79    | 19256    | 3.768    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 75.400%   |
| 46) 2-Hexanone-d5             | 8.634  | 63    | 85340    | 35.187   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 70.380%   |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753 | 84    | 52238    | 3.923    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 78.400%   |
| 66) 1,2-Dichlorobenzene-d4    | 12.190 | 152   | 70665    | 4.085    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 81.800%   |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 2) Dichlorodifluoromethane    | 1.383  | 85    | 60671    | 5.033    | ug/L   | 99        |
| 3) Chloromethane              | 1.515  | 50    | 60451    | 4.806    | ug/L   | 99        |
| 5) Vinyl chloride             | 1.599  | 62    | 63046    | 4.829    | ug/L   | 98        |
| 6) Bromomethane               | 1.853  | 94    | 36318    | 4.458    | ug/L   | 98        |
| 8) Chloroethane               | 1.927  | 64    | 44888    | 5.228    | ug/L   | 94        |
| 9) Trichlorofluoromethane     | 2.132  | 101   | 89653    | 4.825    | ug/L   | 100       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576  | 101   | 51037    | 5.056    | ug/L   | 93        |
| 12) 1,1-Dichloroethene        | 2.576  | 96    | 45682    | 5.200    | ug/L   | 93        |
| 13) Acetone                   | 2.634  | 43    | 91886    | 51.292   | ug/L   | 99        |
| 14) Carbon disulfide          | 2.788  | 76    | 109883   | 4.517    | ug/L   | 98        |
| 15) Methyl Acetate            | 2.955  | 43    | 21804    | 5.946    | ug/L   | 98        |
| 16) Methylene chloride        | 3.039  | 84    | 73476    | 5.445    | ug/L   | 94        |
| 17) Methyl tert-butyl Ether   | 3.361  | 73    | 131024   | 5.125    | ug/L   | 99        |
| 18) trans-1,2-Dichloroethene  | 3.351  | 96    | 46932    | 4.889    | ug/L   | 91        |
| 19) 1,1-Dichloroethane        | 3.862  | 63    | 101602   | 5.046    | ug/L   | 100       |
| 21) 2-Butanone                | 4.708  | 43    | 147847   | 53.859   | ug/L   | 97        |
| 22) cis-1,2-Dichloroethene    | 4.663  | 96    | 56094    | 4.902    | ug/L   | 94        |
| 23) Bromochloromethane        | 4.971  | 128   | 25254    | 5.100    | ug/L   | 94        |
| 25) Chloroform                | 5.087  | 83    | 108937   | 4.932    | ug/L   | 96        |

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 Acq On : 31 Aug 2023 20:07  
 Operator : MD/SY  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 01 05:04:16 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR082823WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Sep 01 04:57:47 2023  
 Response via : Initial Calibration

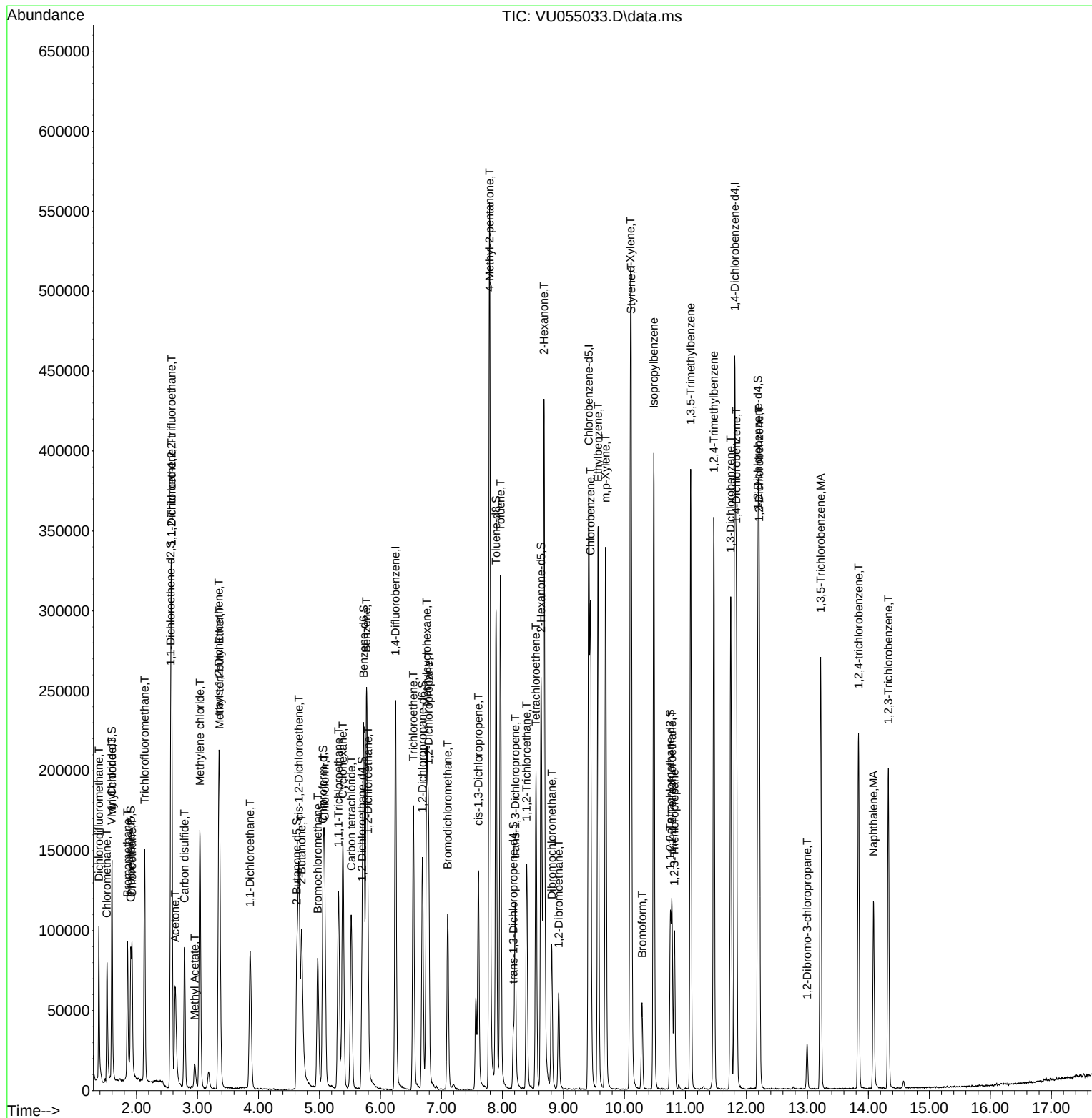
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.795  | 62   | 69126    | 5.122  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane     | 5.312  | 97   | 86219    | 4.416  | ug/L  | 98       |
| 30) Cyclohexane               | 5.383  | 56   | 74469    | 4.303  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.521  | 117  | 72309    | 4.353  | ug/L  | 98       |
| 33) Benzene                   | 5.769  | 78   | 217612   | 4.697  | ug/L  | 100      |
| 34) Trichloroethene           | 6.541  | 95   | 59980    | 4.671  | ug/L  | 97       |
| 35) Methylcyclohexane         | 6.759  | 83   | 76623    | 4.033  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 58278    | 4.512  | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.103  | 83   | 70076    | 4.374  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 80972    | 4.350  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 7.788  | 43   | 372509   | 51.733 | ug/L  | 100      |
| 42) Toluene                   | 7.968  | 91   | 231302   | 4.499  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.209  | 75   | 65299    | 4.248  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 43600    | 5.002  | ug/L  | 97       |
| 47) Tetrachloroethene         | 8.550  | 164  | 39861    | 4.320  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.682  | 43   | 278126   | 52.156 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.807  | 129  | 44715    | 4.428  | ug/L  | 88       |
| 50) 1,2-Dibromoethane         | 8.923  | 107  | 39477    | 4.705  | ug/L  | 96       |
| 51) Chlorobenzene             | 9.444  | 112  | 149626   | 4.472  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.569  | 91   | 253142   | 4.366  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.692  | 106  | 94058    | 4.328  | ug/L  | 99       |
| 54) o-Xylene                  | 10.100 | 106  | 92284    | 4.430  | ug/L  | 97       |
| 55) Styrene                   | 10.113 | 104  | 154060   | 4.486  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 54939    | 5.095  | ug/L  | 99       |
| 59) Bromoform                 | 10.290 | 173  | 23336    | 4.336  | ug/L  | 95       |
| 60) Isopropylbenzene          | 10.483 | 105  | 251736   | 4.329  | ug/L  | 100      |
| 61) 1,2,3-Trichloropropane    | 10.820 | 75   | 39922    | 4.949  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 209305   | 4.193  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 195656   | 4.225  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 119315   | 4.409  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.836 | 146  | 117213   | 4.330  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.212 | 146  | 112908   | 4.578  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 7342     | 4.698  | ug/L  | 88       |
| 69) 1,3,5-Trichlorobenzene    | 13.219 | 180  | 82475    | 4.572  | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.839 | 180  | 63436    | 4.490  | ug/L  | 100      |
| 71) Naphthalene               | 14.084 | 128  | 94098    | 4.427  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 55659    | 4.754  | ug/L  | 99       |

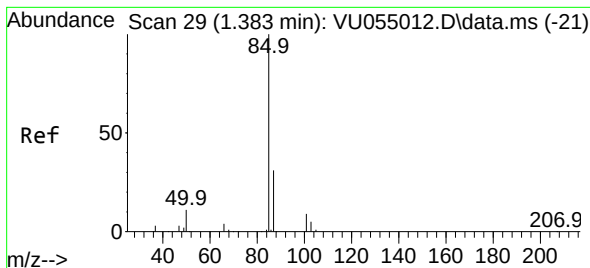
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU083123\  
Data File : VU055033.D  
Acq On : 31 Aug 2023 20:07  
Operator : MD/SY  
Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

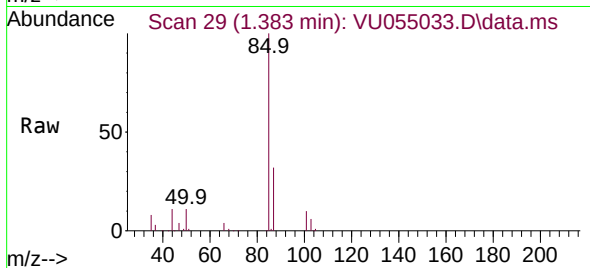
Quant Time: Sep 01 05:04:16 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR082823WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Sep 01 04:57:47 2023  
Response via : Initial Calibration



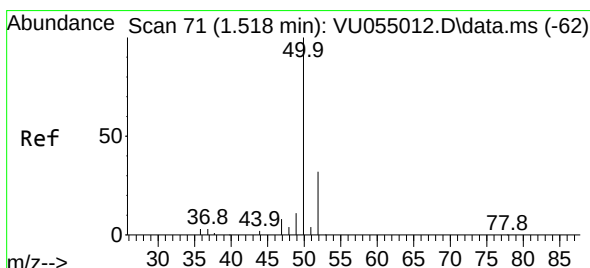
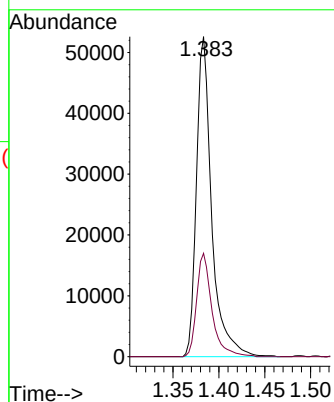
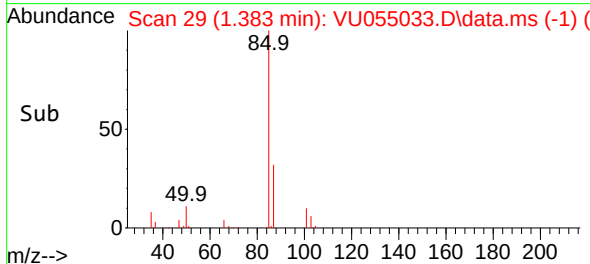


#2  
Dichlorodifluoromethane  
Concen: 5.033 ug/L  
RT: 1.383 min Scan# 29  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Instrument :  
MSVOA\_U  
ClientSampleId :

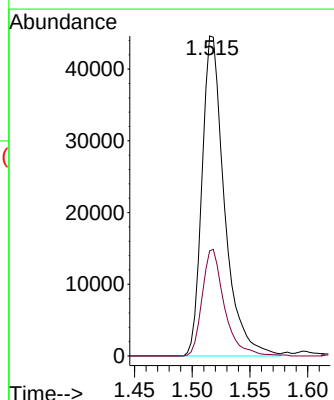
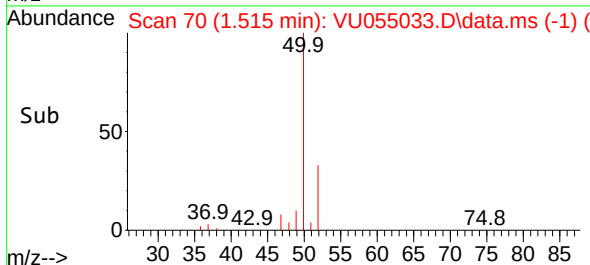
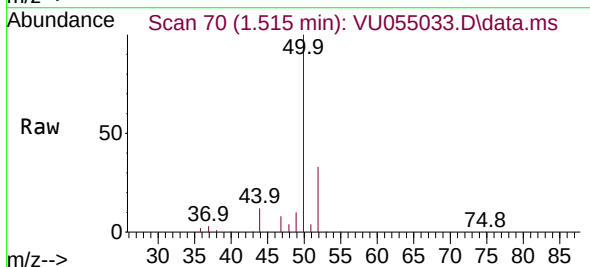


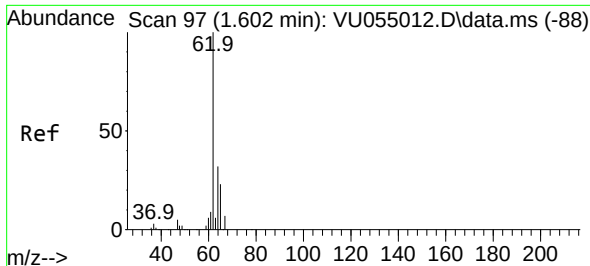
Tgt Ion: 85 Resp: 60671  
Ion Ratio Lower Upper  
85 100  
87 32.5 25.4 38.0



#3  
Chloromethane  
Concen: 4.806 ug/L  
RT: 1.515 min Scan# 70  
Delta R.T. -0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 50 Resp: 60451  
Ion Ratio Lower Upper  
50 100  
52 32.9 23.4 43.6

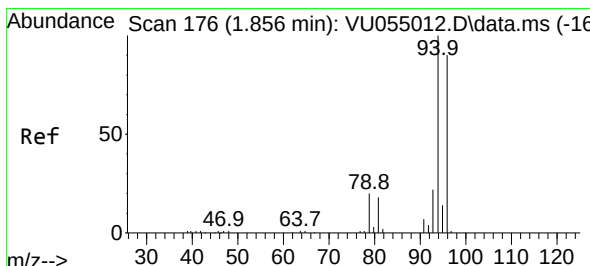
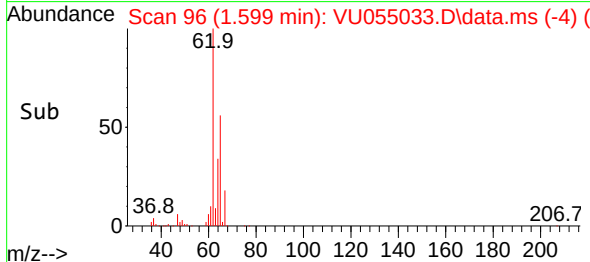
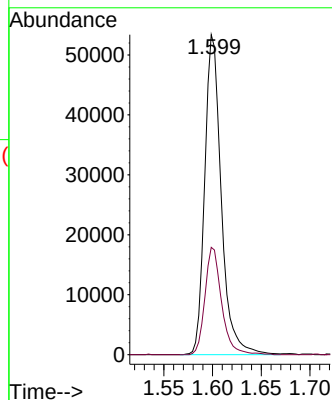
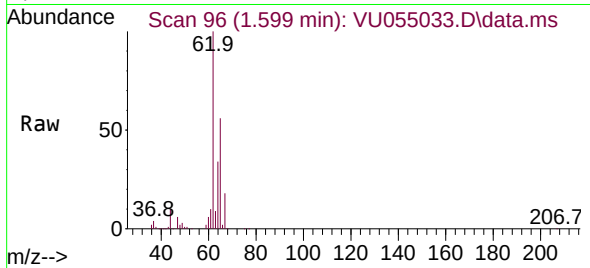




#5  
 Vinyl chloride  
 Concen: 4.829 ug/L  
 RT: 1.599 min Scan# 90  
 Delta R.T. -0.003 min  
 Lab File: VU055033.D  
 Acq: 31 Aug 2023 20:07

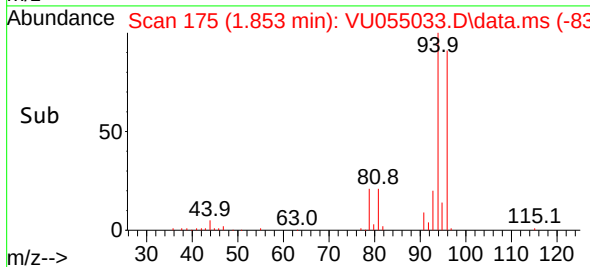
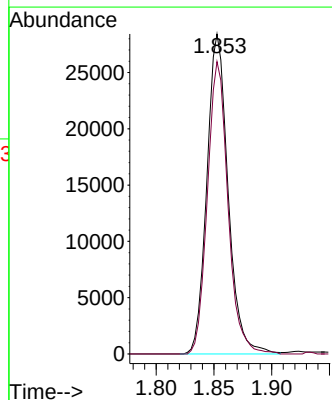
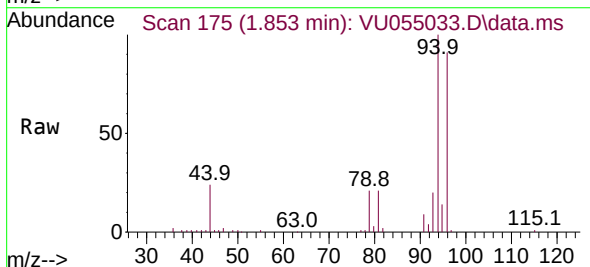
Instrument :  
 MSVOA\_U  
 ClientSampleId :

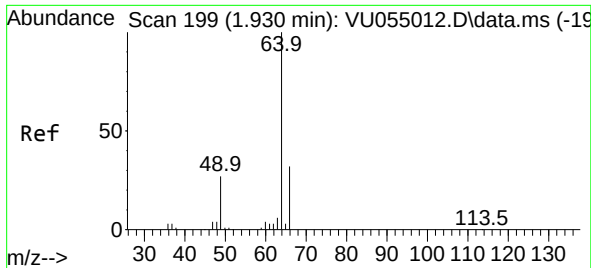
Tgt Ion: 62 Resp: 63046  
 Ion Ratio Lower Upper  
 62 100  
 64 33.5 22.7 42.1



#6  
 Bromomethane  
 Concen: 4.458 ug/L  
 RT: 1.853 min Scan# 175  
 Delta R.T. -0.003 min  
 Lab File: VU055033.D  
 Acq: 31 Aug 2023 20:07

Tgt Ion: 94 Resp: 36318  
 Ion Ratio Lower Upper  
 94 100  
 96 91.4 65.5 121.7

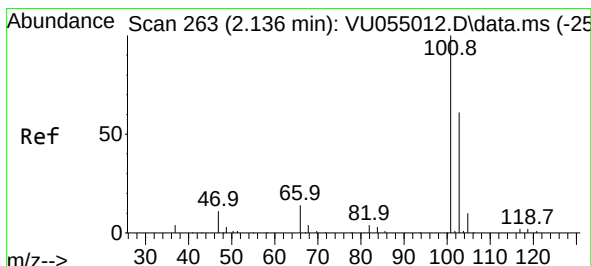
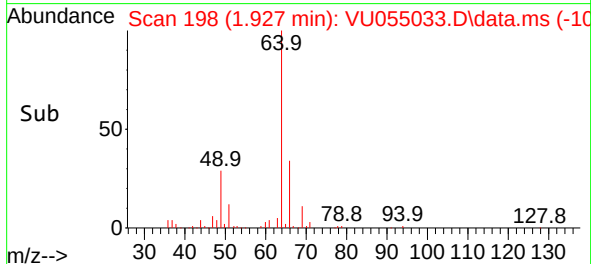
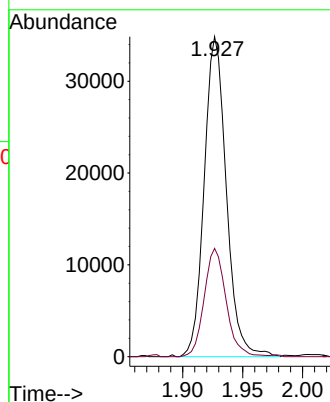
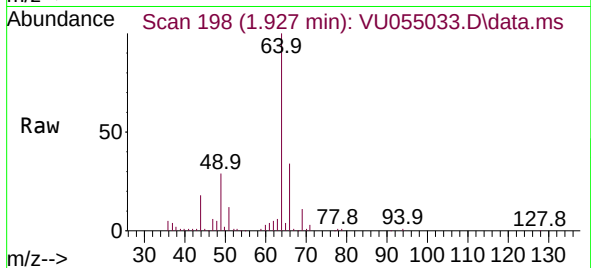




#8  
Chloroethane  
Concen: 5.228 ug/L  
RT: 1.927 min Scan# 19  
Delta R.T. -0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

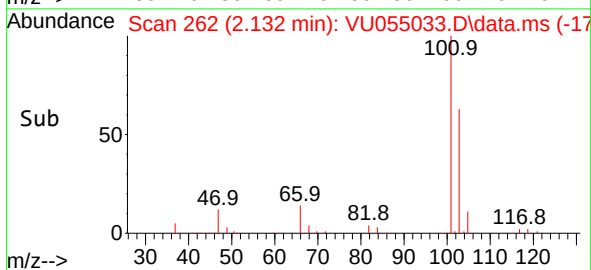
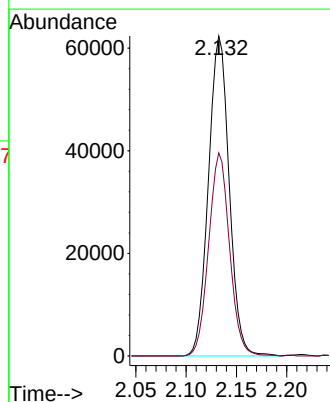
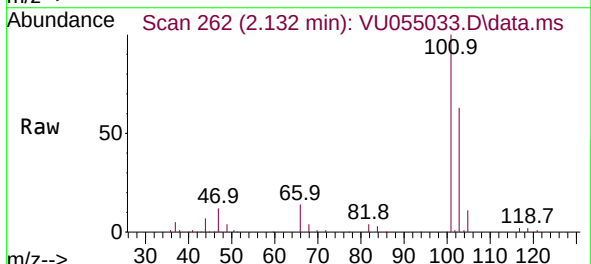
Instrument :  
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ClientSampleId :

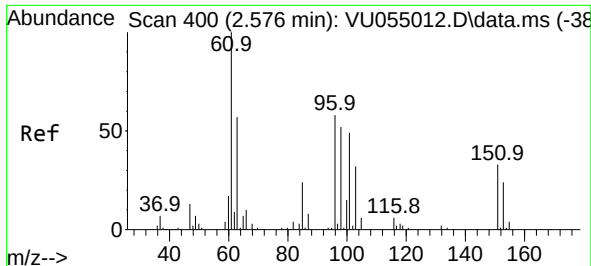
Tgt Ion: 64 Resp: 44888  
Ion Ratio Lower Upper  
64 100  
66 33.9 21.5 39.9



#9  
Trichlorofluoromethane  
Concen: 4.825 ug/L  
RT: 2.132 min Scan# 262  
Delta R.T. -0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion:101 Resp: 89653  
Ion Ratio Lower Upper  
101 100  
103 63.8 51.0 76.4

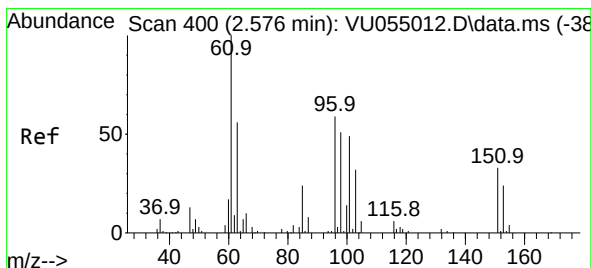
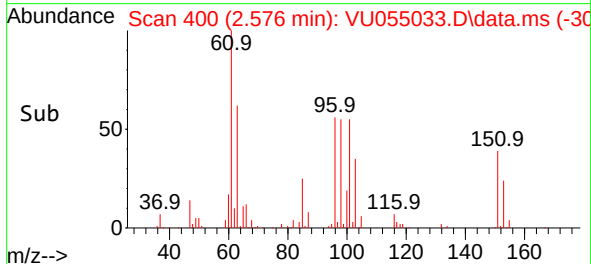
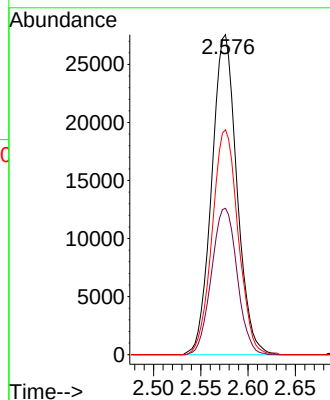
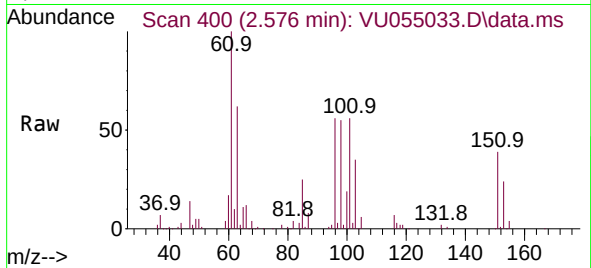




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.056 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. -0.000 min  
 Lab File: VU055033.D  
 Acq: 31 Aug 2023 20:07

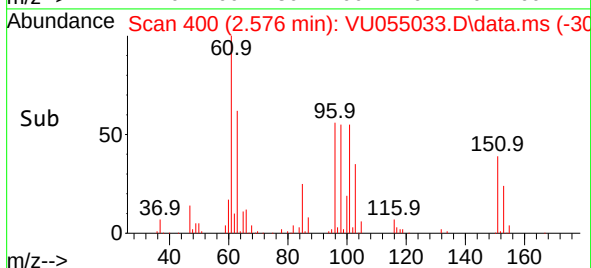
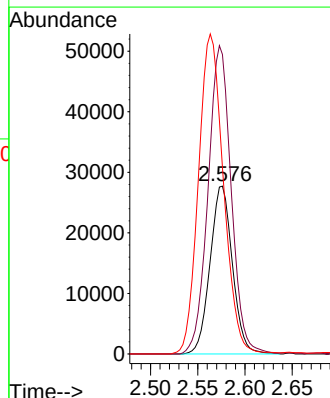
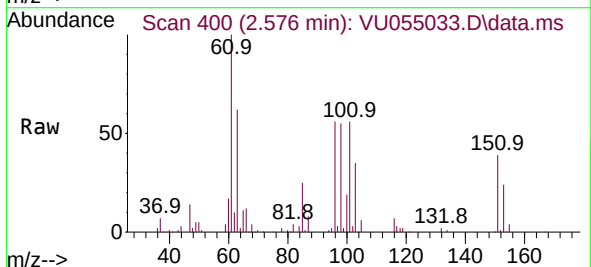
Instrument :  
 MSVOA\_U  
 ClientSampleId :

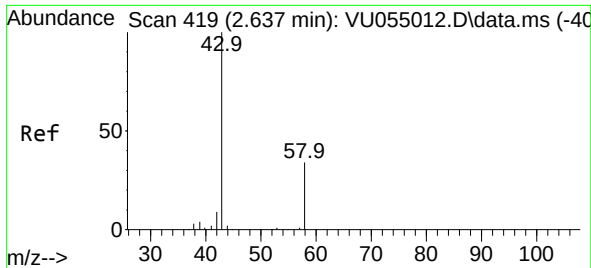
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 Ion Ratio Lower Upper  
 101 100  
 85 46.5 38.3 57.5  
 151 72.5 51.5 77.3



#12  
 1,1-Dichloroethene  
 Concen: 5.200 ug/L  
 RT: 2.576 min Scan# 400  
 Delta R.T. -0.000 min  
 Lab File: VU055033.D  
 Acq: 31 Aug 2023 20:07

Tgt Ion: 96 Resp: 45682  
 Ion Ratio Lower Upper  
 96 100  
 61 178.4 132.4 245.8  
 63 111.3 82.5 153.1





#13

Acetone

Concen: 51.292 ug/L

RT: 2.634 min Scan# 419

Delta R.T. -0.003 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

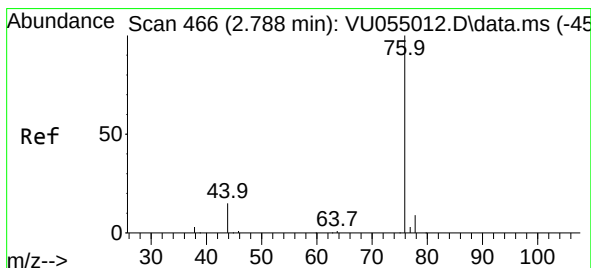
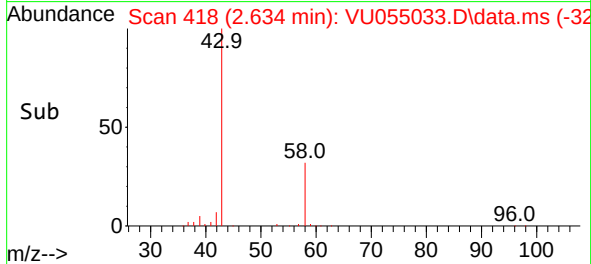
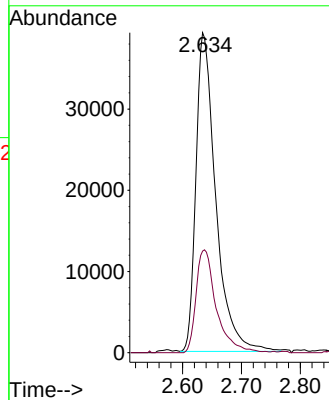
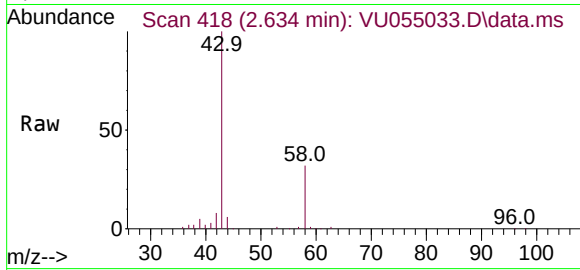
ClientSampleId :

Tgt Ion: 43 Resp: 91886

Ion Ratio Lower Upper

43 100

58 32.8 0.0 64.4



#14

Carbon disulfide

Concen: 4.517 ug/L

RT: 2.788 min Scan# 466

Delta R.T. -0.000 min

Lab File: VU055033.D

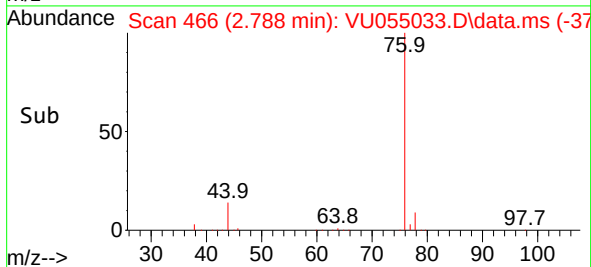
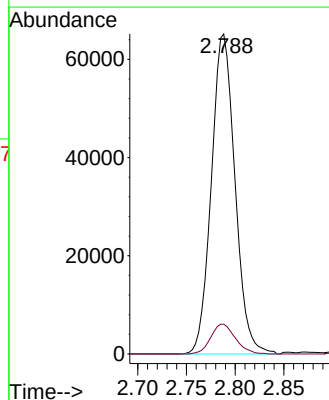
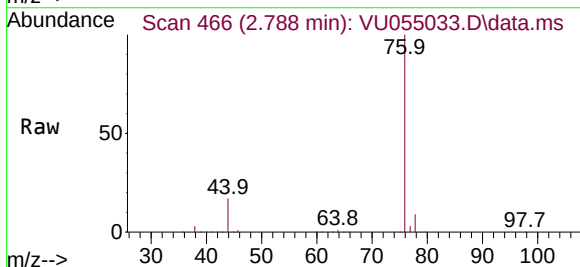
Acq: 31 Aug 2023 20:07

Tgt Ion: 76 Resp: 109883

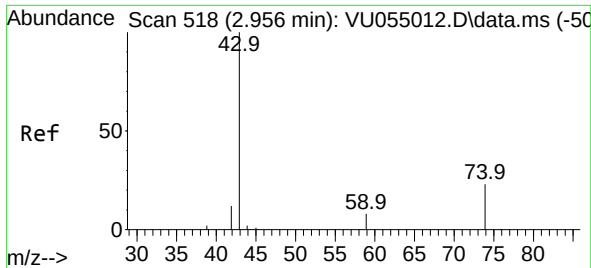
Ion Ratio Lower Upper

76 100

78 9.3 8.2 12.2

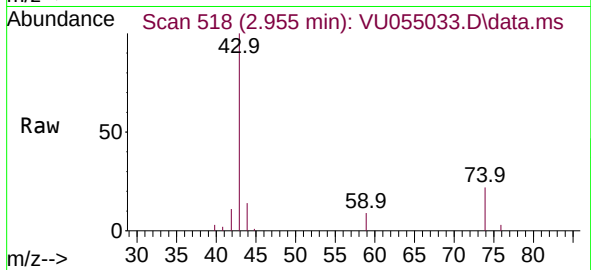




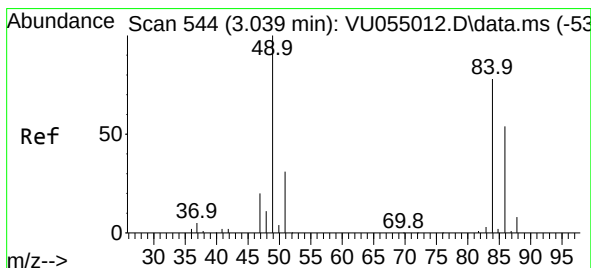
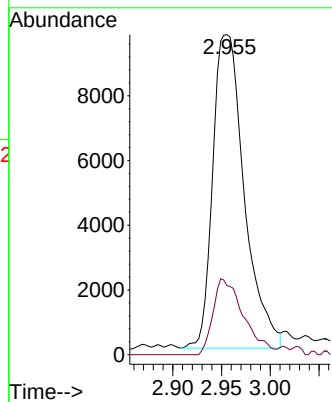
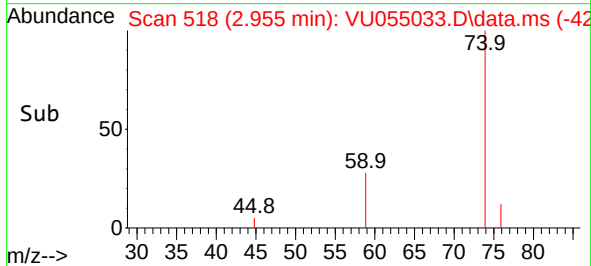


#15  
Methyl Acetate  
Concen: 5.946 ug/L  
RT: 2.955 min Scan# 518  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Instrument :  
MSVOA\_U  
ClientSampleId :

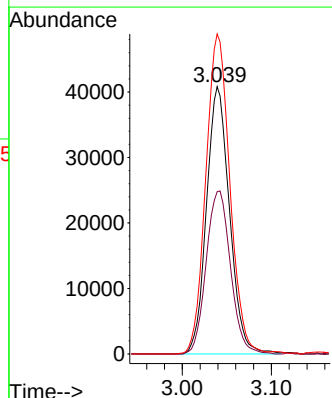
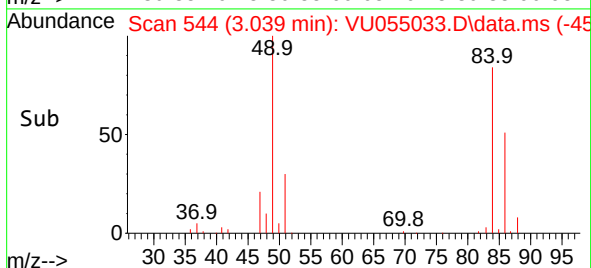
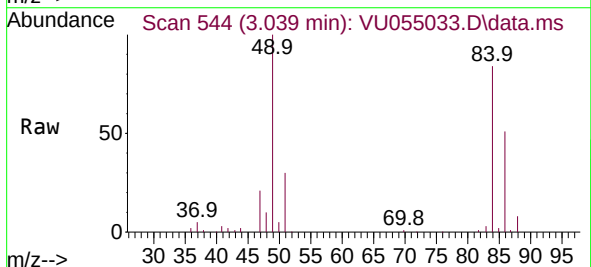


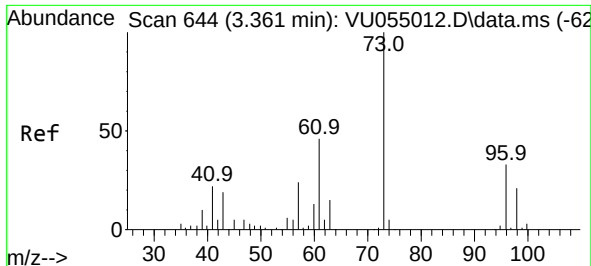
Tgt Ion: 43 Resp: 21804  
Ion Ratio Lower Upper  
43 100  
74 23.5 19.5 29.3



#16  
Methylene chloride  
Concen: 5.445 ug/L  
RT: 3.039 min Scan# 544  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 84 Resp: 73476  
Ion Ratio Lower Upper  
84 100  
86 60.7 45.1 83.7  
49 119.7 89.5 166.3





#17

Methyl tert-butyl Ether

Concen: 5.125 ug/L

RT: 3.361 min Scan# 644

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

ClientSampleId :

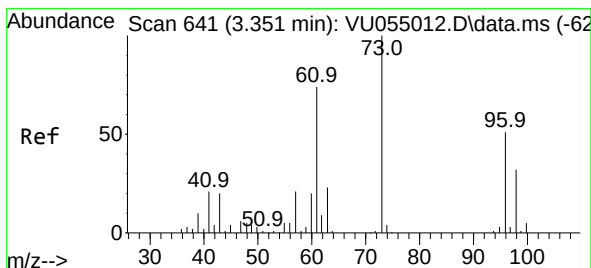
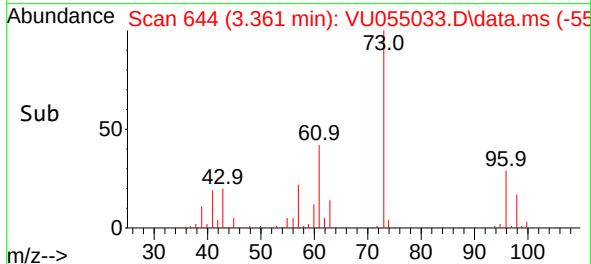
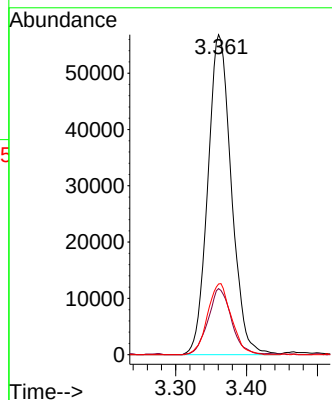
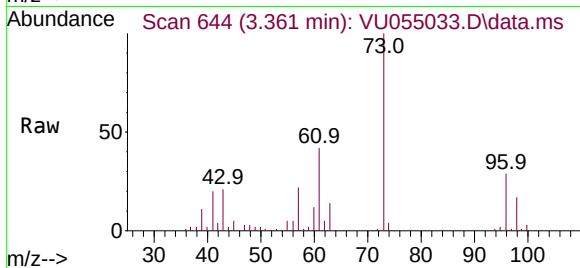
Tgt Ion: 73 Resp: 131024

Ion Ratio Lower Upper

73 100

43 20.5 16.2 24.2

57 22.4 17.4 26.0



#18

trans-1,2-Dichloroethene

Concen: 4.889 ug/L

RT: 3.351 min Scan# 641

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

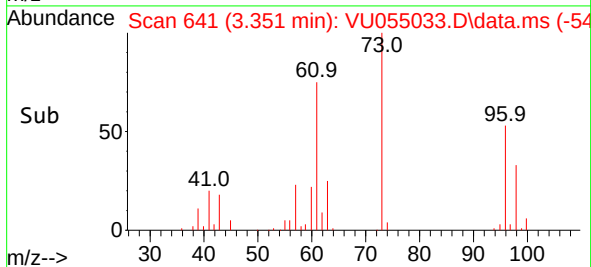
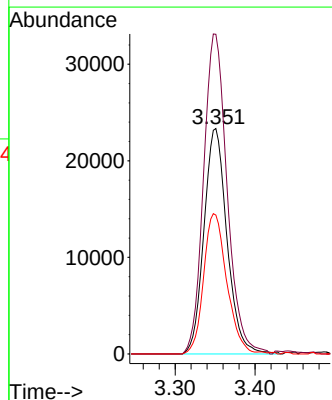
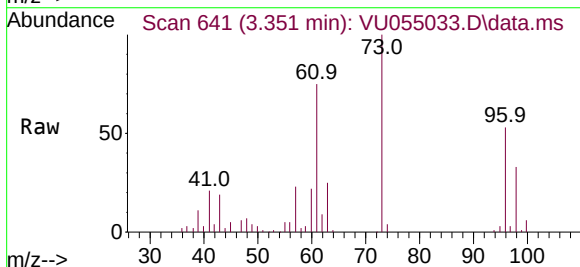
Tgt Ion: 96 Resp: 46932

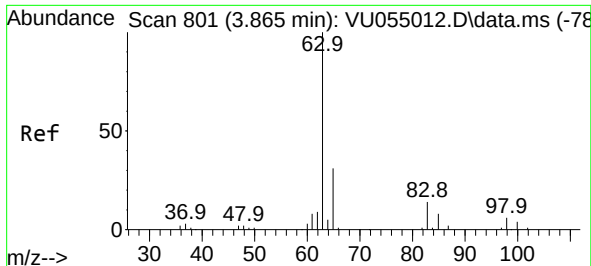
Ion Ratio Lower Upper

96 100

61 141.8 108.8 202.0

98 61.6 45.8 85.2





#19

1,1-Dichloroethane

Concen: 5.046 ug/L

RT: 3.862 min Scan# 801

Delta R.T. -0.003 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

ClientSampleId :

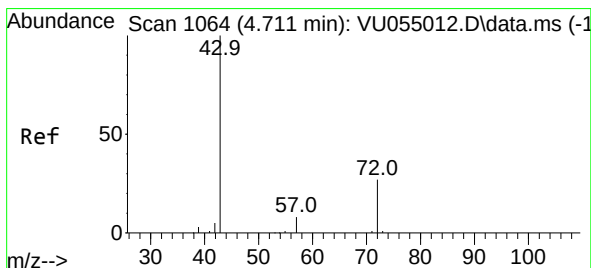
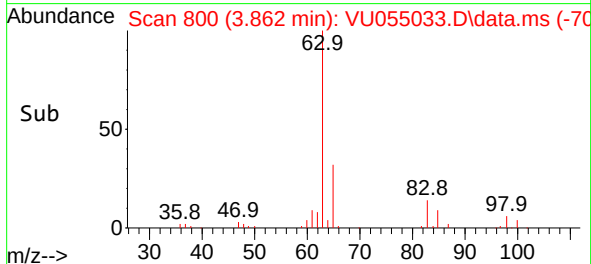
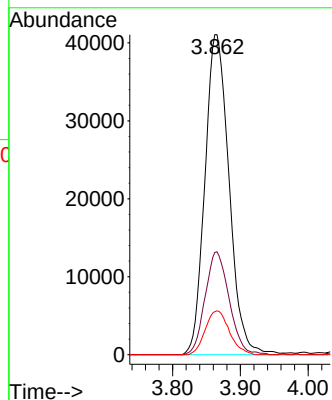
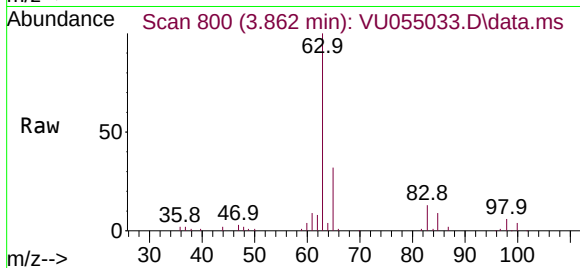
Tgt Ion: 63 Resp: 101602

Ion Ratio Lower Upper

63 100

65 32.0 22.5 41.7

83 13.5 9.5 17.7



#21

2-Butanone

Concen: 53.859 ug/L

RT: 4.708 min Scan# 1063

Delta R.T. -0.003 min

Lab File: VU055033.D

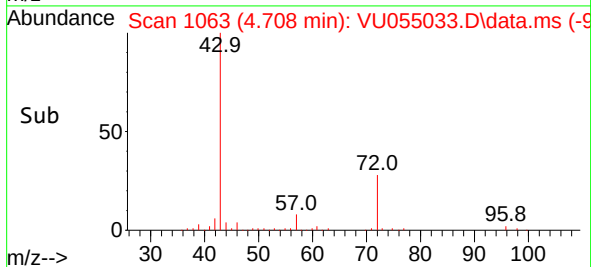
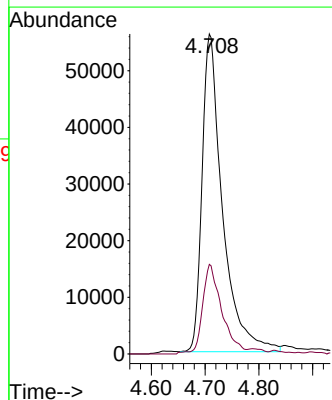
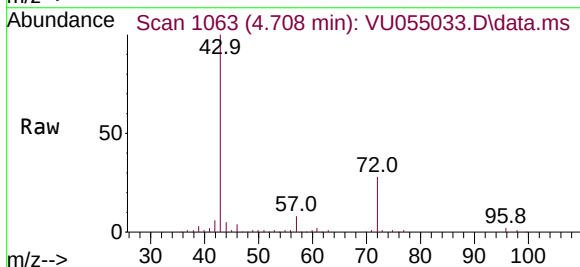
Acq: 31 Aug 2023 20:07

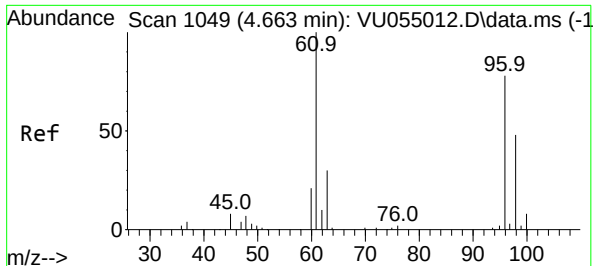
Tgt Ion: 43 Resp: 147847

Ion Ratio Lower Upper

43 100

72 26.6 14.1 42.3





#22

cis-1,2-Dichloroethene

Concen: 4.902 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.000 min

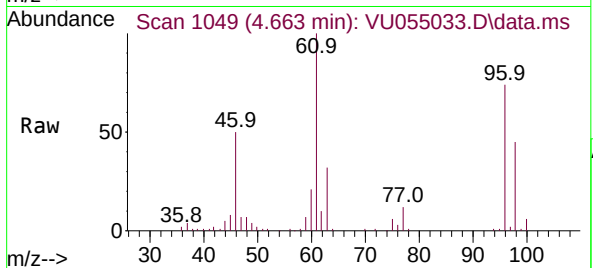
Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

ClientSampleId :



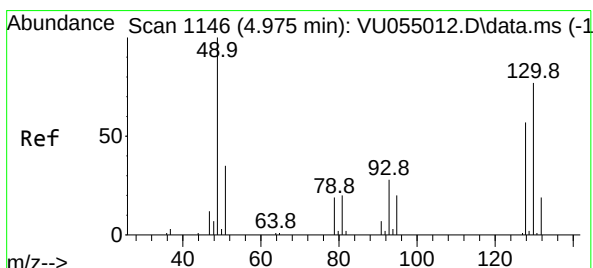
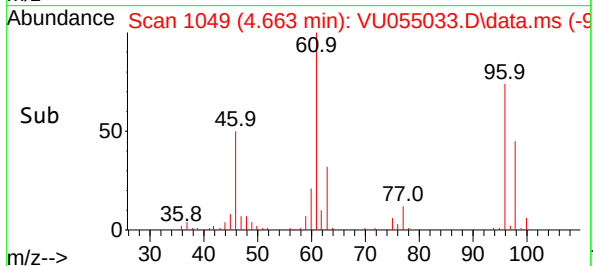
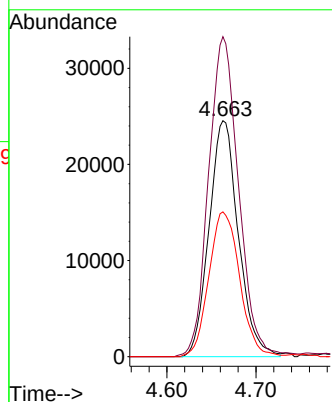
Tgt Ion: 96 Resp: 56094

Ion Ratio Lower Upper

96 100

61 135.6 88.4 164.2

98 61.3 44.0 81.6



#23

Bromochloromethane

Concen: 5.100 ug/L

RT: 4.971 min Scan# 1145

Delta R.T. -0.003 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Tgt Ion: 128 Resp: 25254

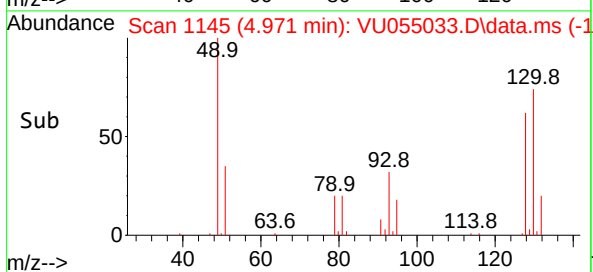
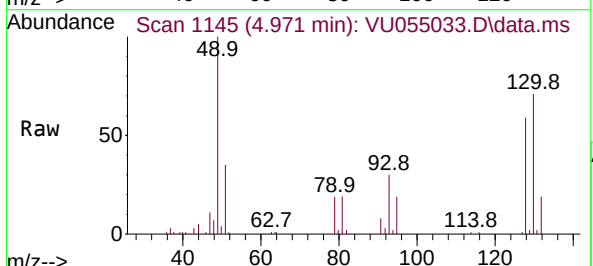
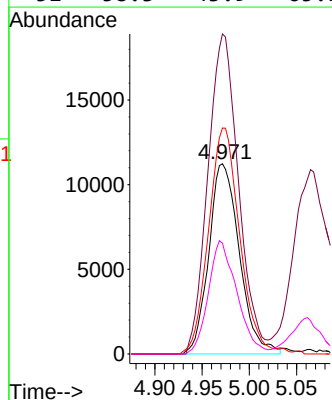
Ion Ratio Lower Upper

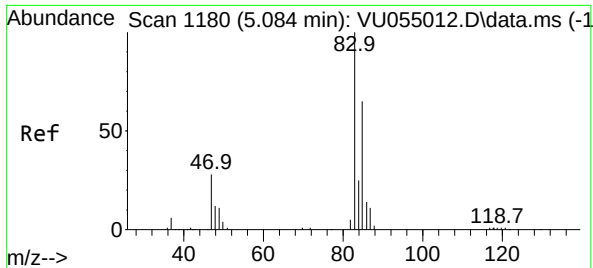
128 100

49 175.0 113.8 211.3

130 118.7 83.9 155.7

51 58.3 43.9 65.9

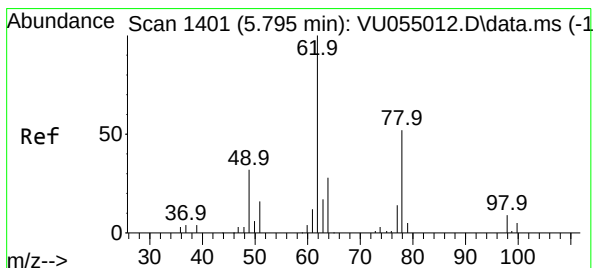
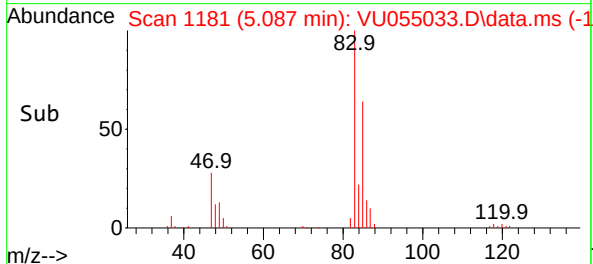
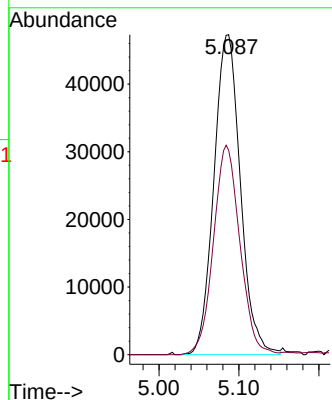
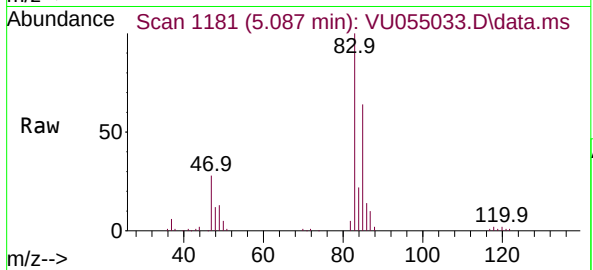




#25  
Chloroform  
Concen: 4.932 ug/L  
RT: 5.087 min Scan# 1180  
Delta R.T. 0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

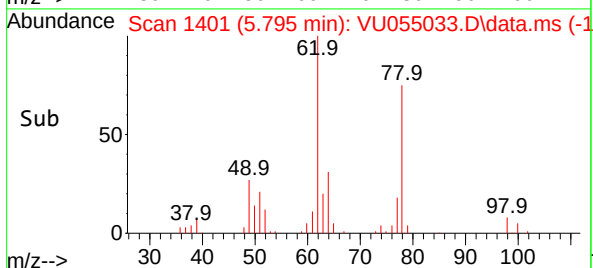
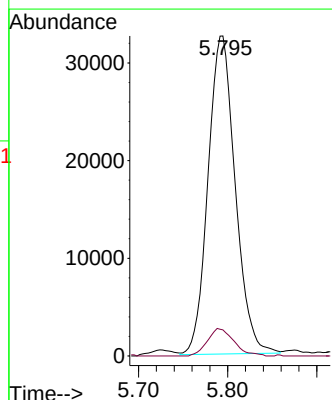
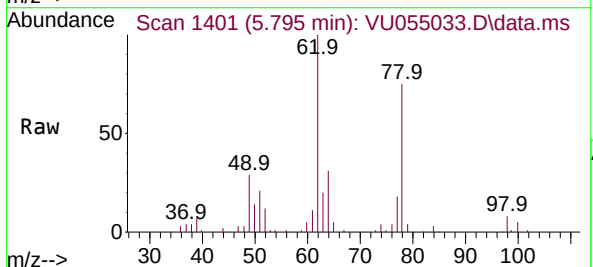
Instrument :  
MSVOA\_U  
ClientSampleId :

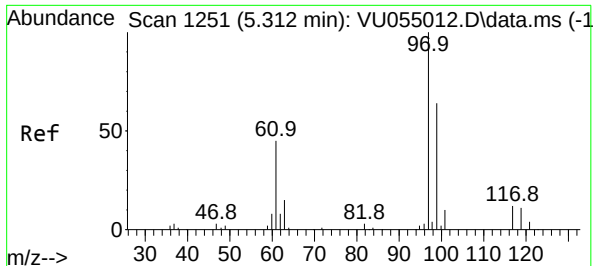
Tgt Ion: 83 Resp: 108937  
Ion Ratio Lower Upper  
83 100  
85 63.9 46.7 86.7



#27  
1,2-Dichloroethane  
Concen: 5.122 ug/L  
RT: 5.795 min Scan# 1401  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 62 Resp: 69126  
Ion Ratio Lower Upper  
62 100  
98 8.1 7.0 10.6

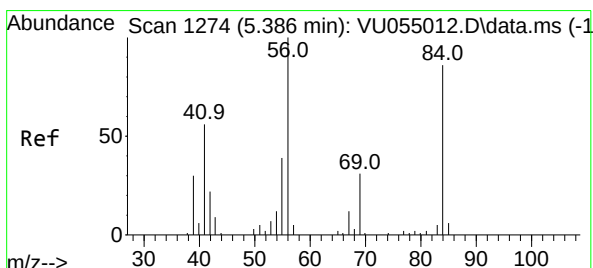
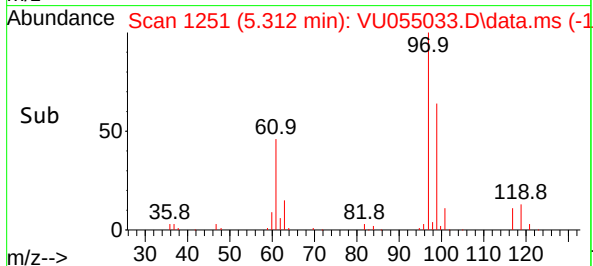
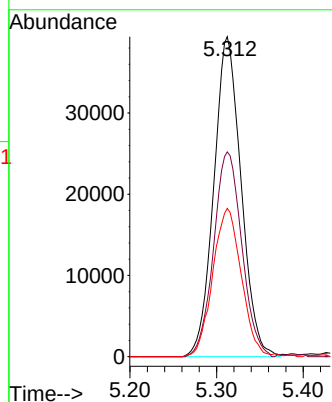
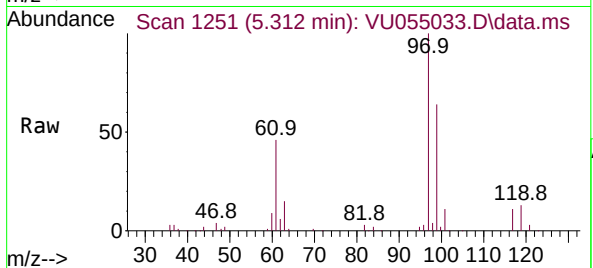




#29  
1,1,1-Trichloroethane  
Concen: 4.416 ug/L  
RT: 5.312 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

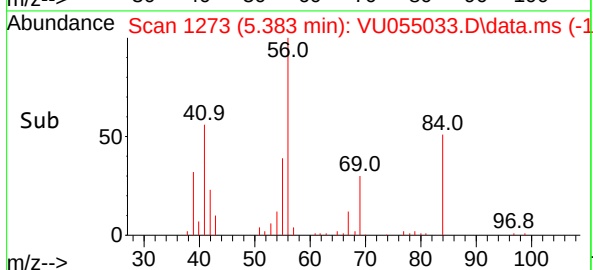
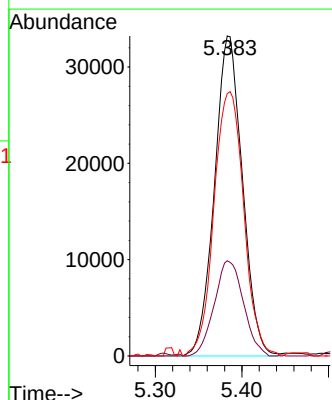
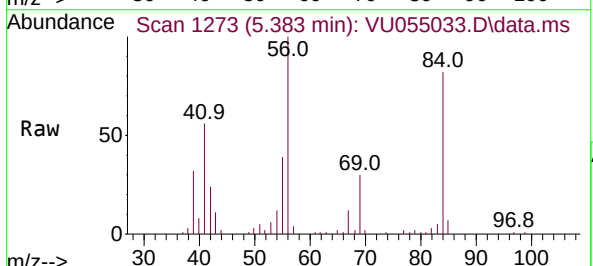
Instrument :  
MSVOA\_U  
ClientSampleId :

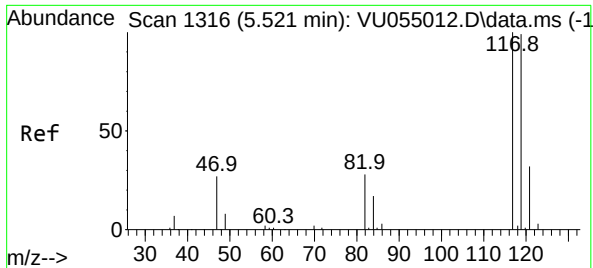
Tgt Ion: 97 Resp: 86219  
Ion Ratio Lower Upper  
97 100  
99 65.9 51.5 77.3  
61 48.4 37.2 55.8



#30  
Cyclohexane  
Concen: 4.303 ug/L  
RT: 5.383 min Scan# 1273  
Delta R.T. -0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 56 Resp: 74469  
Ion Ratio Lower Upper  
56 100  
69 31.0 24.5 36.7  
84 88.0 71.3 106.9

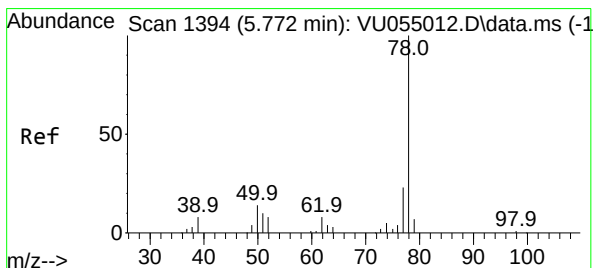
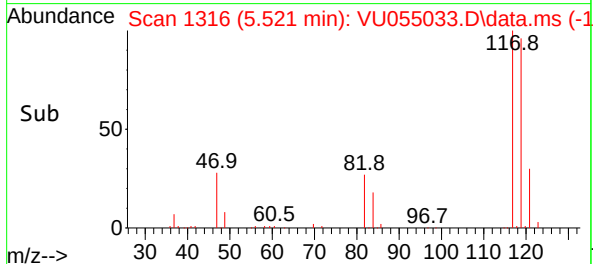
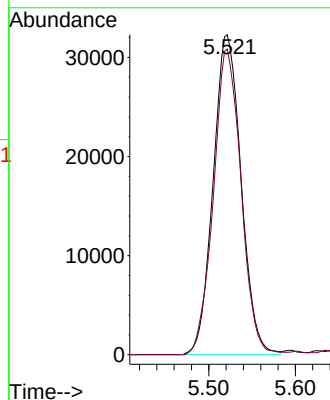
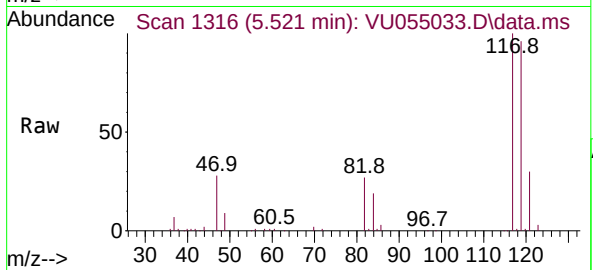




#31  
Carbon tetrachloride  
Concen: 4.353 ug/L  
RT: 5.521 min Scan# 1117  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

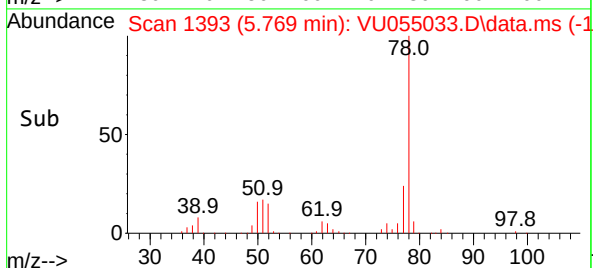
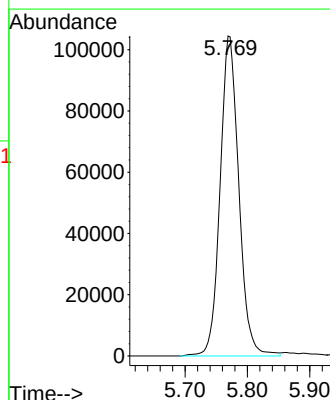
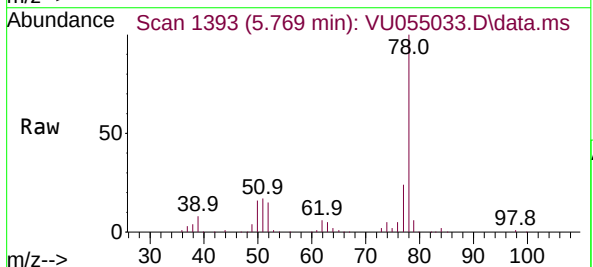
Instrument :  
MSVOA\_U  
ClientSampleId :

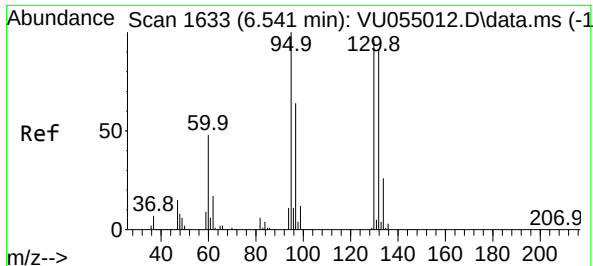
Tgt Ion:117 Resp: 72309  
Ion Ratio Lower Upper  
117 100  
119 94.3 76.6 115.0



#33  
Benzene  
Concen: 4.697 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. -0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 78 Resp: 217612





#34

Trichloroethene

Concen: 4.671 ug/L

RT: 6.541 min Scan# 1

Delta R.T. -0.000 min

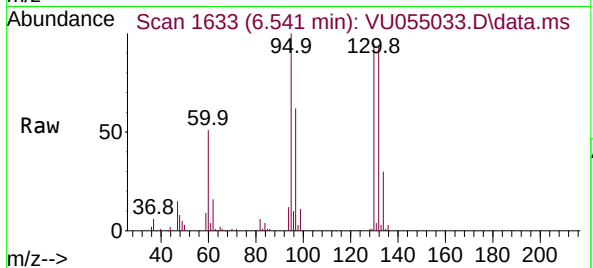
Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion: 95 Resp: 59980

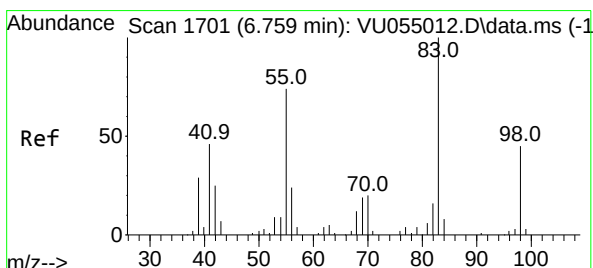
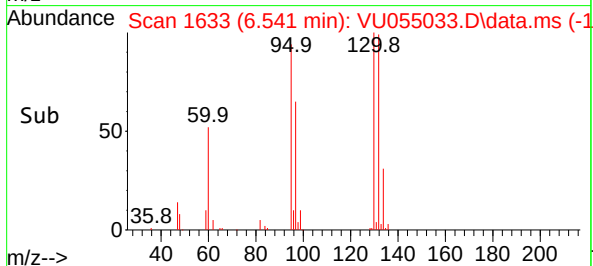
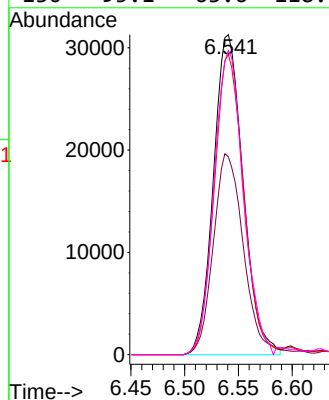
Ion Ratio Lower Upper

95 100

97 61.8 44.1 81.9

132 93.9 63.6 118.2

130 95.1 63.6 118.0



#35

Methylcyclohexane

Concen: 4.033 ug/L

RT: 6.759 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

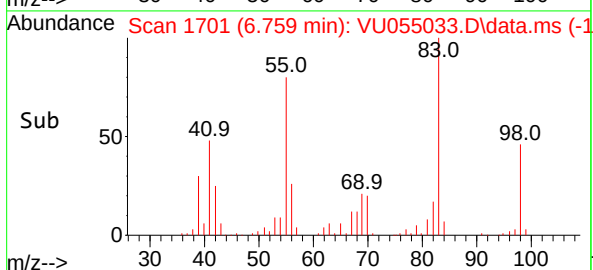
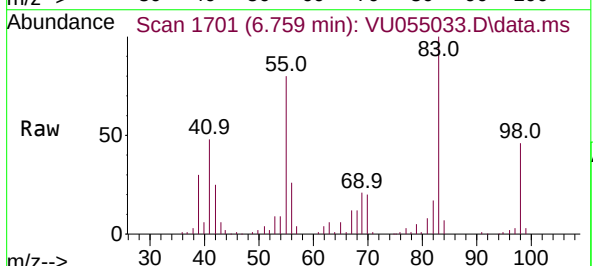
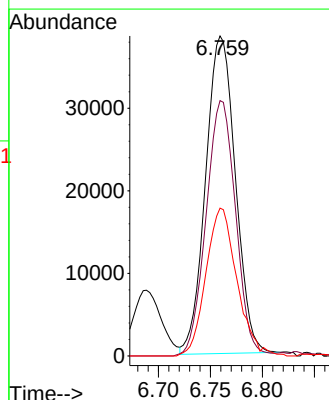
Tgt Ion: 83 Resp: 76623

Ion Ratio Lower Upper

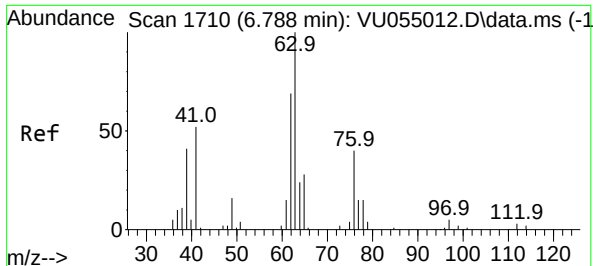
83 100

55 79.8 62.1 93.1

98 48.4 37.8 56.6



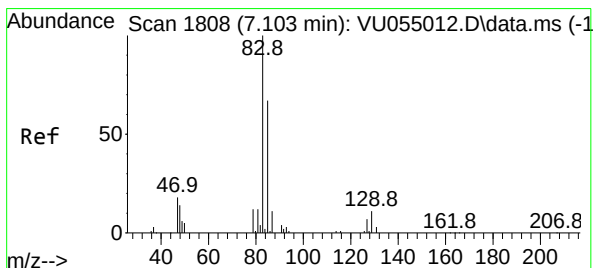
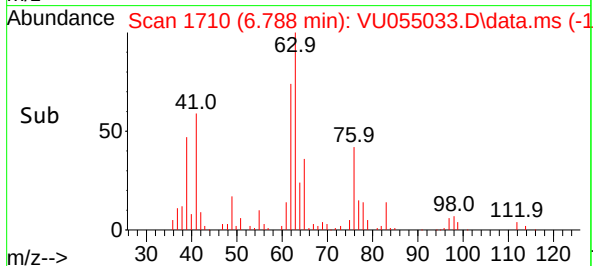
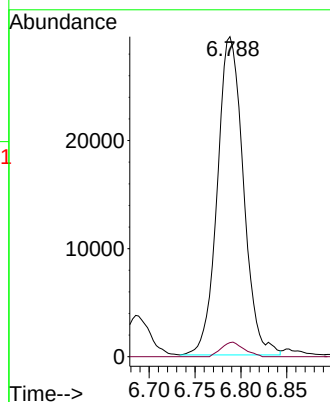
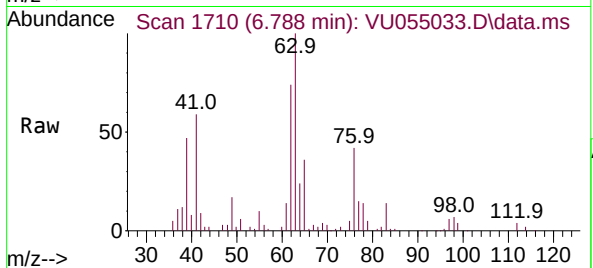




#37  
1,2-Dichloropropane  
Concen: 4.512 ug/L  
RT: 6.788 min Scan# 1710  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

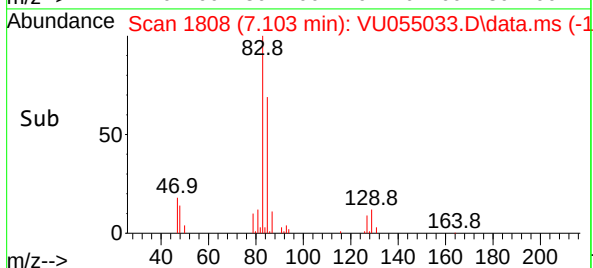
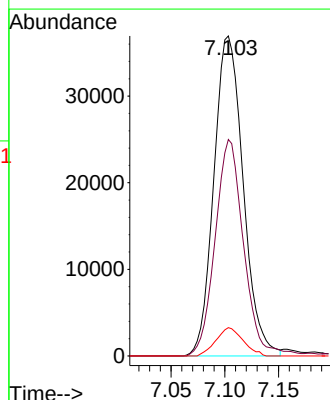
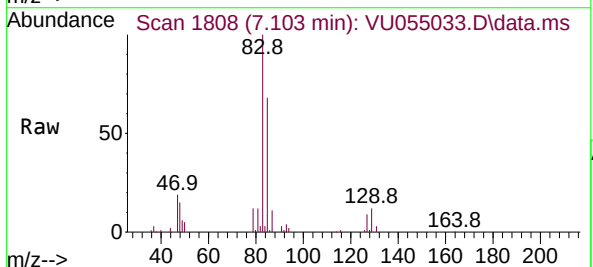
Instrument :  
MSVOA\_U  
ClientSampleId :

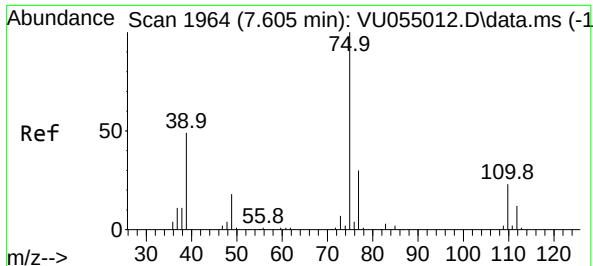
Tgt Ion: 63 Resp: 58278  
Ion Ratio Lower Upper  
63 100  
112 4.0 2.7 4.1



#38  
Bromodichloromethane  
Concen: 4.374 ug/L  
RT: 7.103 min Scan# 1808  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 83 Resp: 70076  
Ion Ratio Lower Upper  
83 100  
85 67.6 45.1 83.7  
127 8.9 7.1 10.7





#39

cis-1,3-Dichloropropene

Concen: 4.350 ug/L

RT: 7.605 min Scan# 1964

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

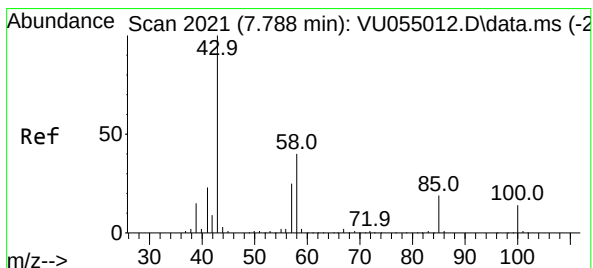
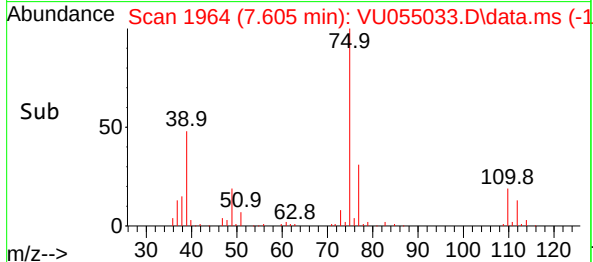
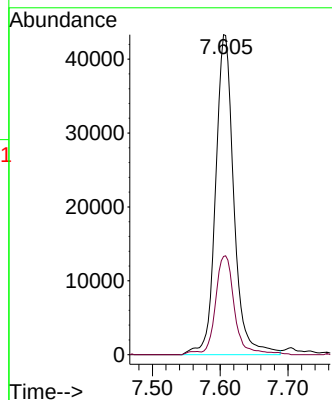
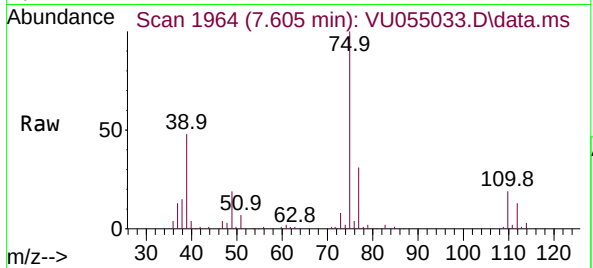
ClientSampleId :

Tgt Ion: 75 Resp: 80972

Ion Ratio Lower Upper

75 100

77 30.7 22.5 41.7



#40

4-Methyl-2-pentanone

Concen: 51.733 ug/L

RT: 7.788 min Scan# 2021

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

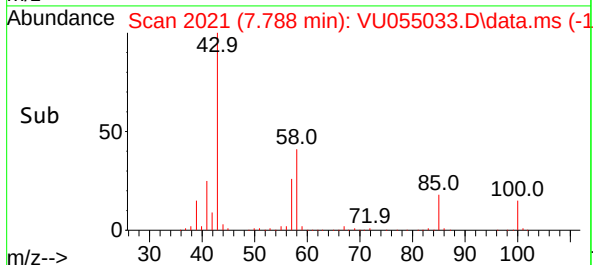
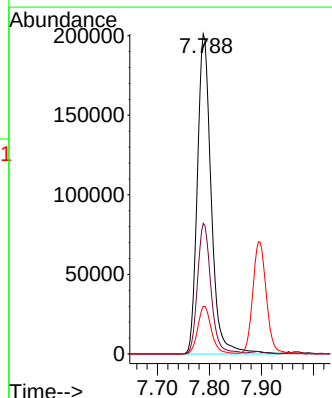
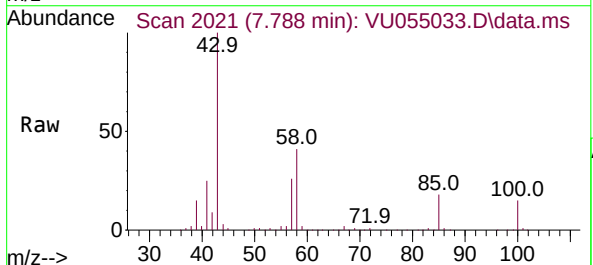
Tgt Ion: 43 Resp: 372509

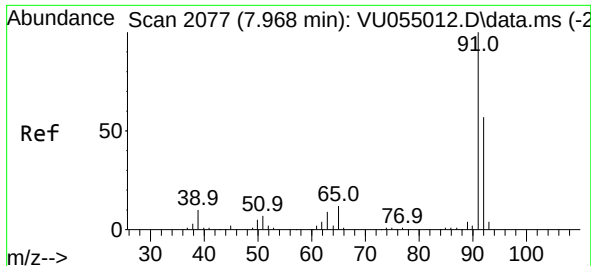
Ion Ratio Lower Upper

43 100

58 39.8 32.1 48.1

100 14.7 11.8 17.6





#42

Toluene

Concen: 4.499 ug/L

RT: 7.968 min Scan# 2077

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

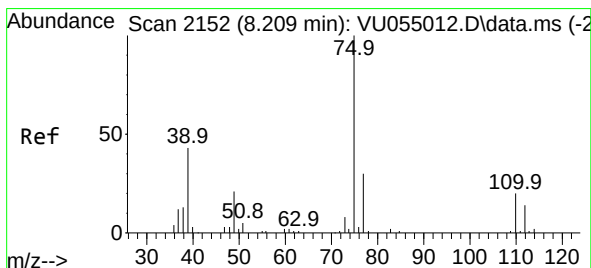
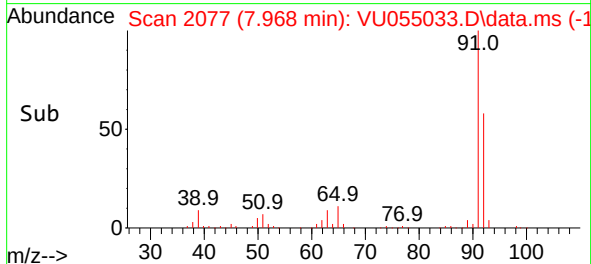
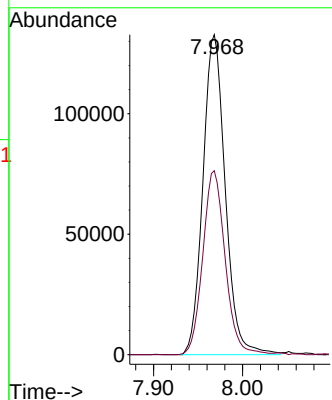
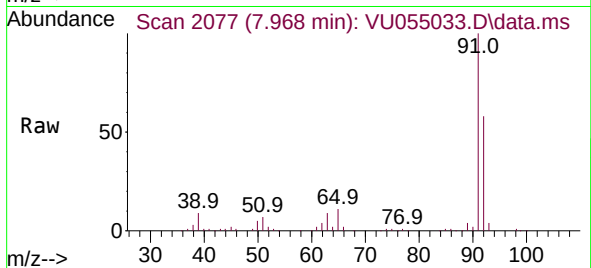
ClientSampleId :

Tgt Ion: 91 Resp: 231302

Ion Ratio Lower Upper

91 100

92 57.5 41.2 76.4



#44

trans-1,3-Dichloropropene

Concen: 4.248 ug/L

RT: 8.209 min Scan# 2152

Delta R.T. -0.000 min

Lab File: VU055033.D

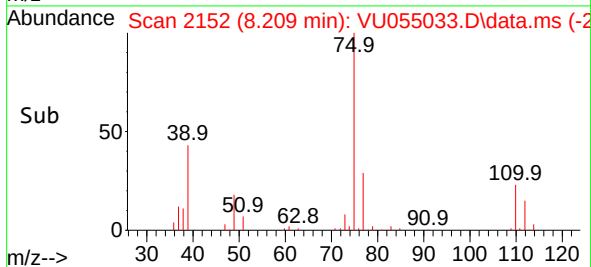
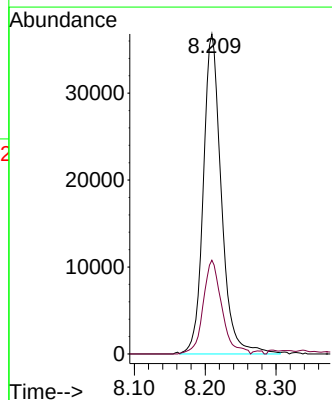
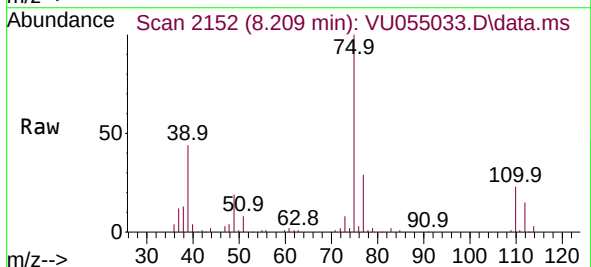
Acq: 31 Aug 2023 20:07

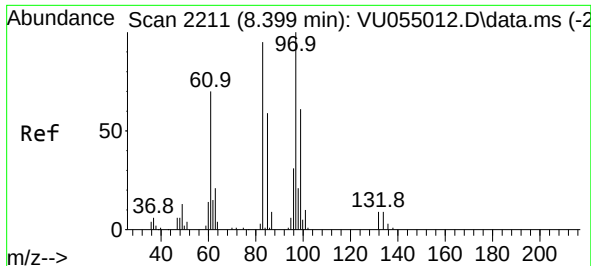
Tgt Ion: 75 Resp: 65299

Ion Ratio Lower Upper

75 100

77 29.3 21.3 39.5

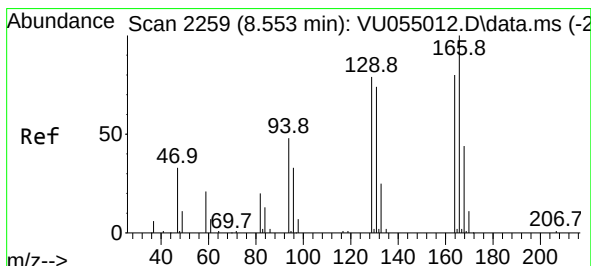
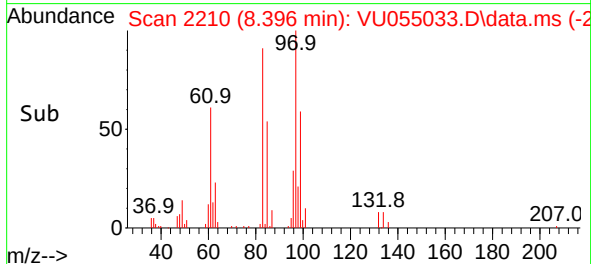
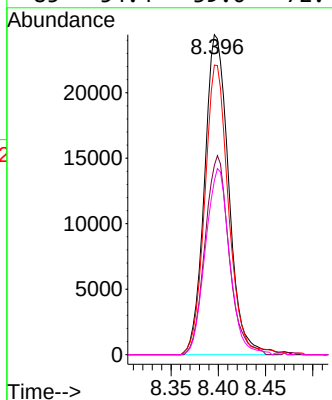
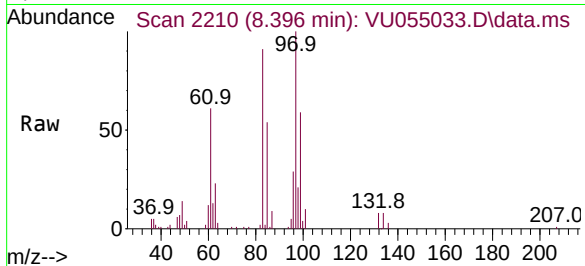




#45  
1,1,2-Trichloroethane  
Concen: 5.002 ug/L  
RT: 8.396 min Scan# 211  
Delta R.T. -0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

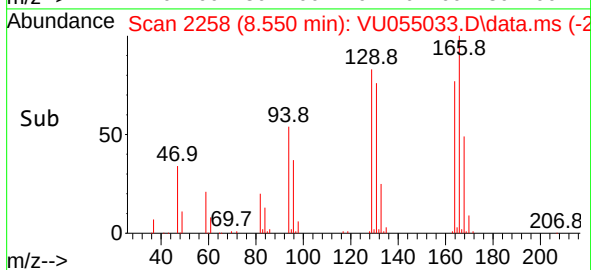
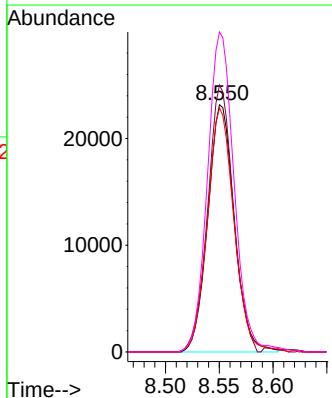
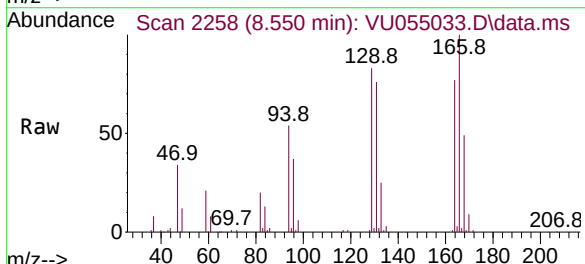
Instrument :  
MSVOA\_U  
ClientSampleId :

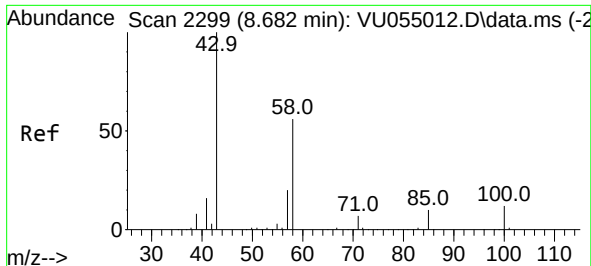
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 43600 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 59.1  | 41.5  | 77.1  |
| 83       | 90.5  | 59.8  | 111.1 |
| 85       | 54.4  | 39.0  | 72.4  |



#47  
Tetrachloroethene  
Concen: 4.320 ug/L  
RT: 8.550 min Scan# 2258  
Delta R.T. -0.003 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

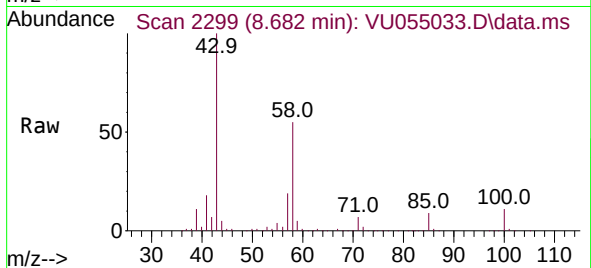
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 39861 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 107.9 | 72.8  | 135.2 |
| 131      | 98.8  | 70.7  | 131.3 |
| 166      | 129.4 | 95.9  | 178.1 |



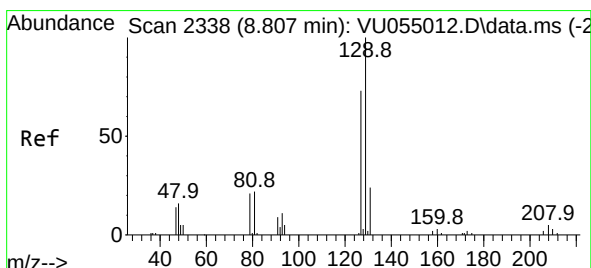
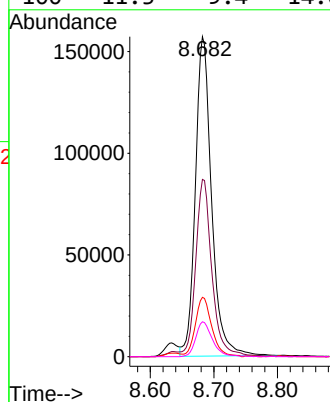
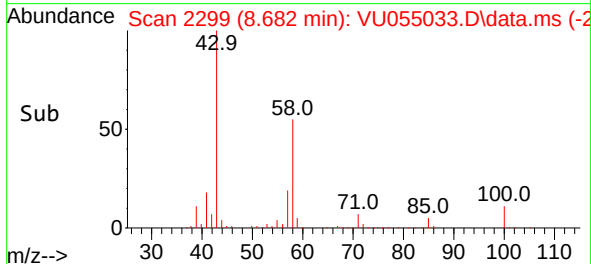


#48  
2-Hexanone  
Concen: 52.156 ug/L  
RT: 8.682 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Instrument :  
MSVOA\_U  
ClientSampleId :

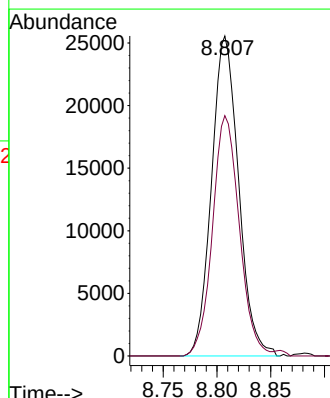
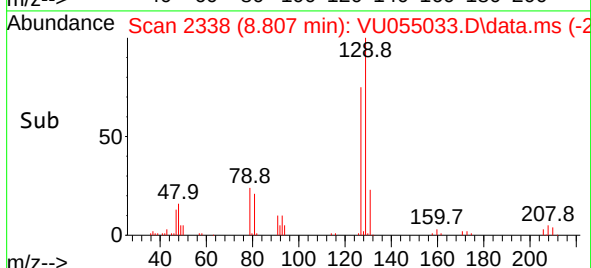
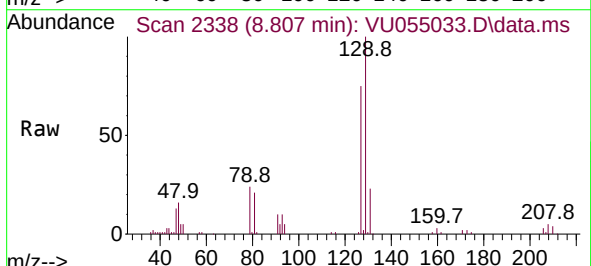


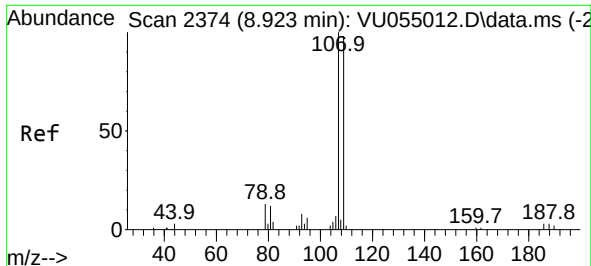
Tgt Ion: 43 Resp: 278126  
Ion Ratio Lower Upper  
43 100  
58 55.0 44.0 66.0  
57 18.9 15.9 23.9  
100 11.3 9.4 14.0



#49  
Dibromochloromethane  
Concen: 4.428 ug/L  
RT: 8.807 min Scan# 2338  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 129 Resp: 44715  
Ion Ratio Lower Upper  
129 100  
127 75.1 60.5 112.5





#50

1,2-Dibromoethane

Concen: 4.705 ug/L

RT: 8.923 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU055033.D

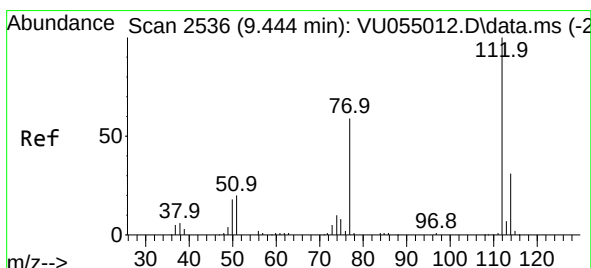
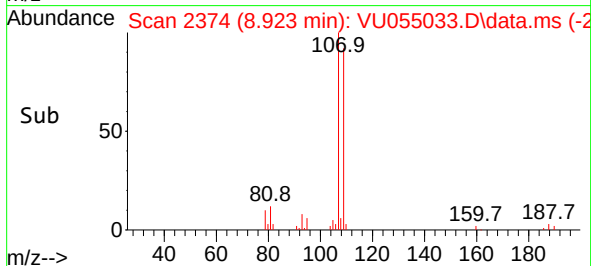
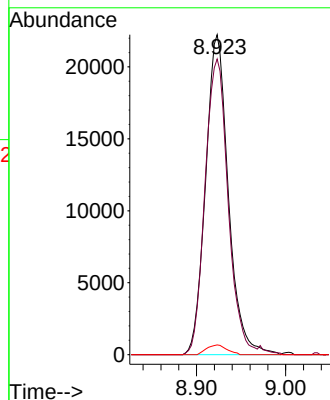
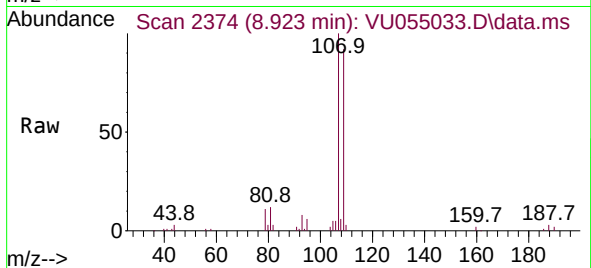
Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:107 | Resp: | 39477      |
| Ion Ratio   | Lower | Upper      |
| 107         | 100   |            |
| 109         | 92.4  | 67.8 125.8 |
| 188         | 3.1   | 2.5 3.7    |



#51

Chlorobenzene

Concen: 4.472 ug/L

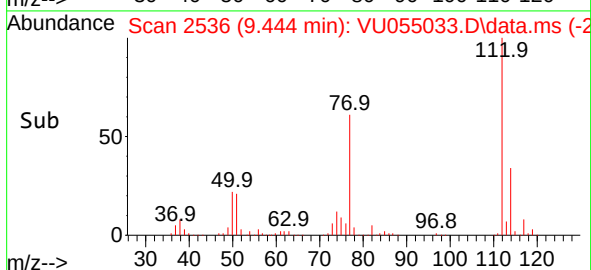
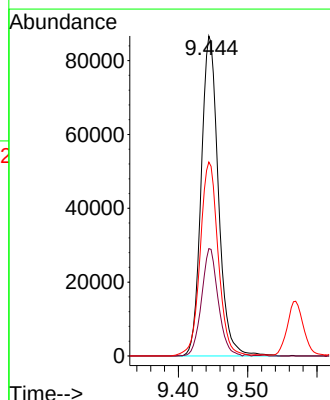
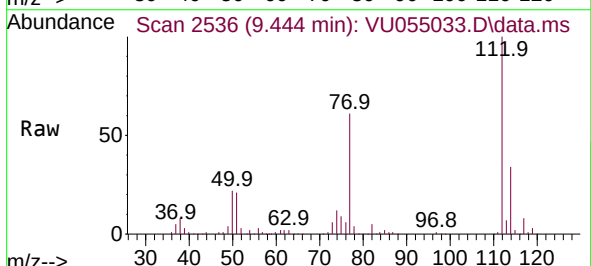
RT: 9.444 min Scan# 2536

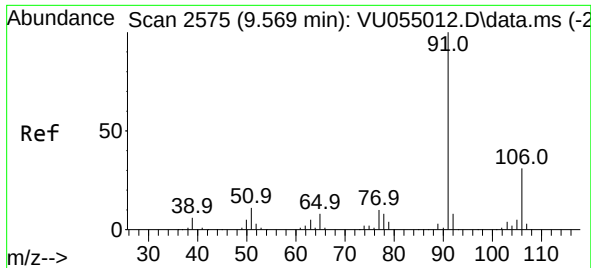
Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:112 | Resp: | 149626    |
| Ion Ratio   | Lower | Upper     |
| 112         | 100   |           |
| 114         | 33.5  | 23.4 43.4 |
| 77          | 60.6  | 49.3 73.9 |

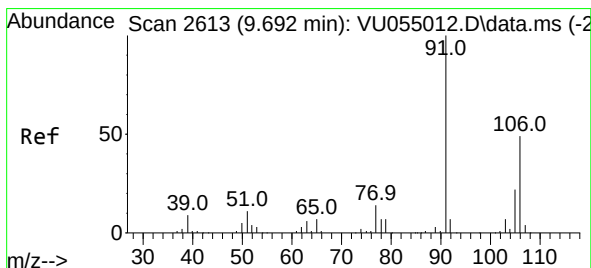
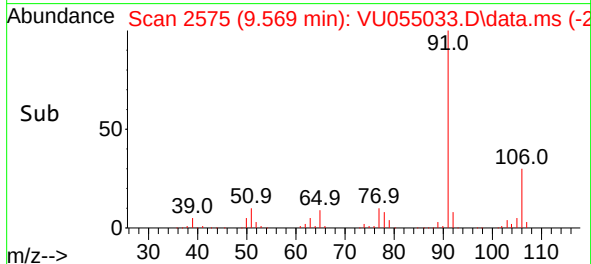
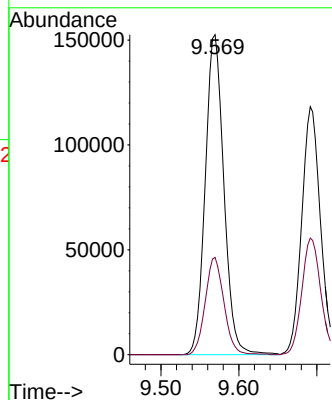
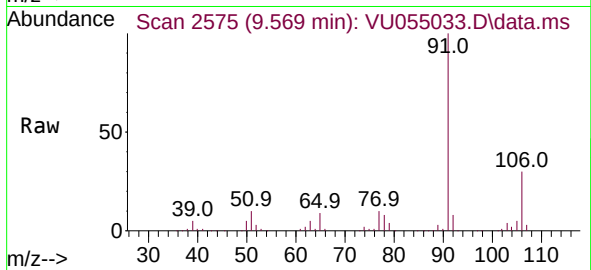




#52  
Ethylbenzene  
Concen: 4.366 ug/L  
RT: 9.569 min Scan# 2575  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

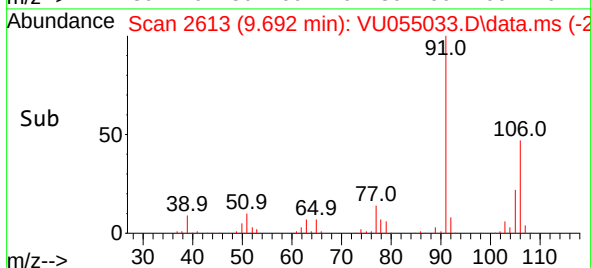
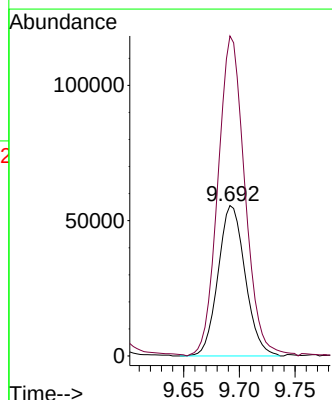
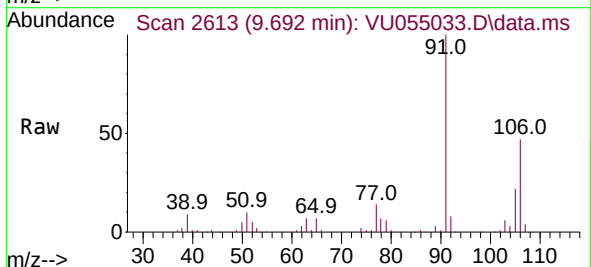
Instrument :  
MSVOA\_U  
ClientSampleId :

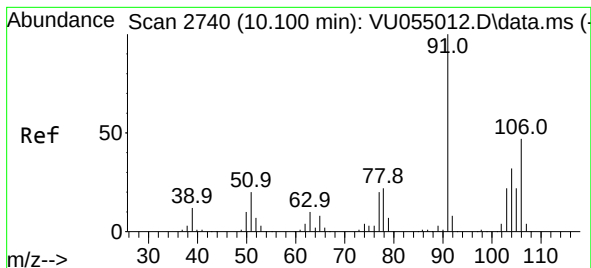
Tgt Ion: 91 Resp: 253142  
Ion Ratio Lower Upper  
91 100  
106 30.4 21.2 39.4



#53  
m,p-Xylene  
Concen: 4.328 ug/L  
RT: 9.692 min Scan# 2613  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 106 Resp: 94058  
Ion Ratio Lower Upper  
106 100  
91 212.7 147.7 274.3





#54

o-Xylene

Concen: 4.430 ug/L

RT: 10.100 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

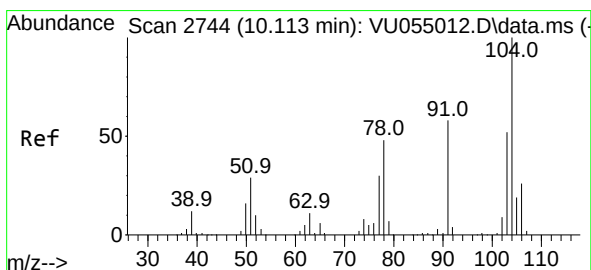
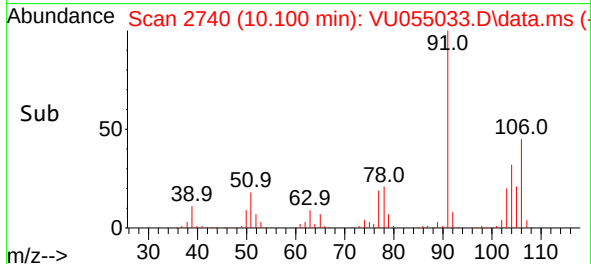
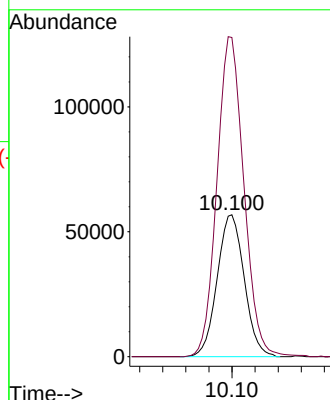
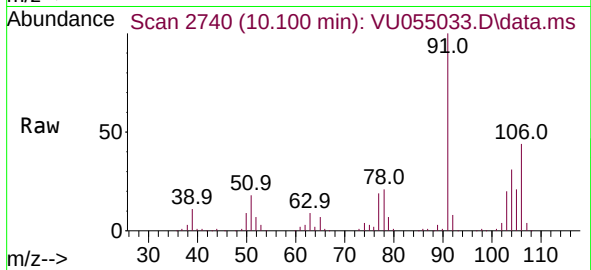
ClientSampleId :

Tgt Ion:106 Resp: 92284

Ion Ratio Lower Upper

106 100

91 224.9 154.2 286.4



#55

Styrene

Concen: 4.486 ug/L

RT: 10.113 min Scan# 2744

Delta R.T. -0.000 min

Lab File: VU055033.D

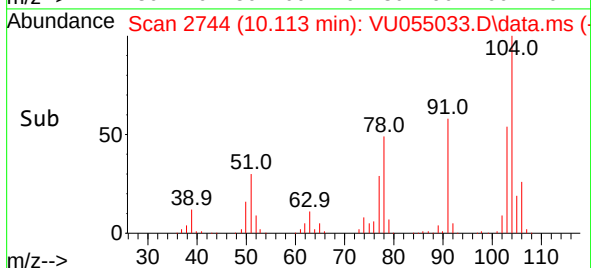
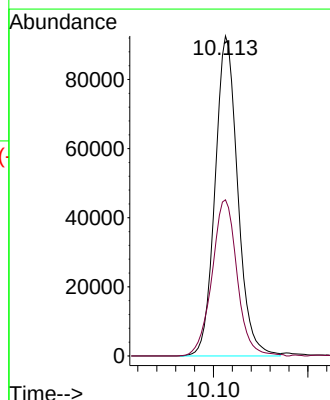
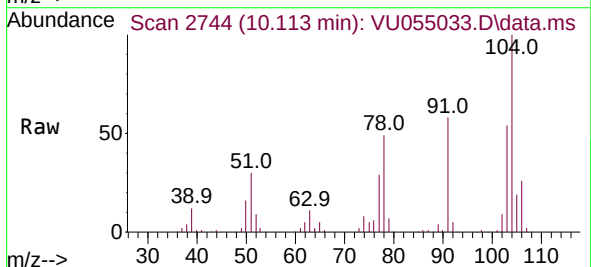
Acq: 31 Aug 2023 20:07

Tgt Ion:104 Resp: 154060

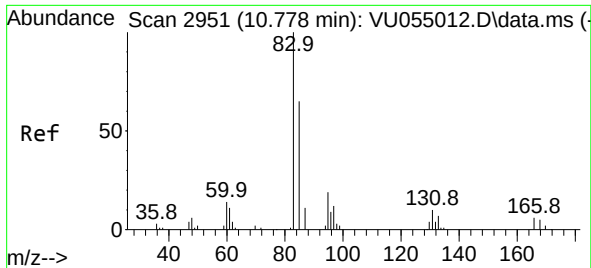
Ion Ratio Lower Upper

104 100

78 48.8 33.7 62.7



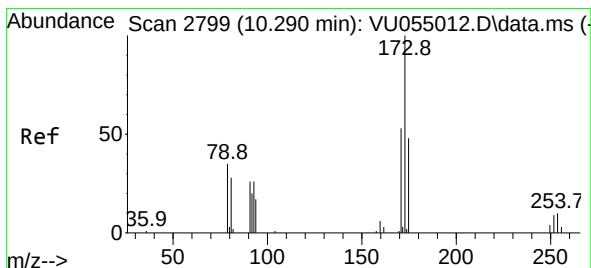
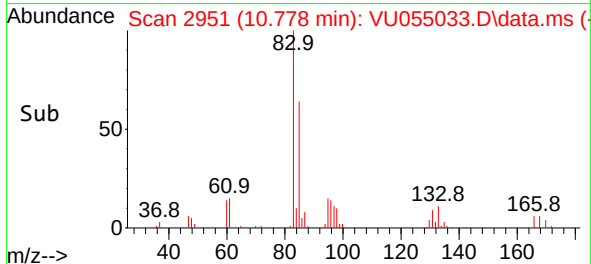
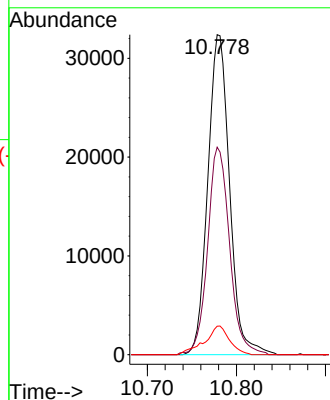
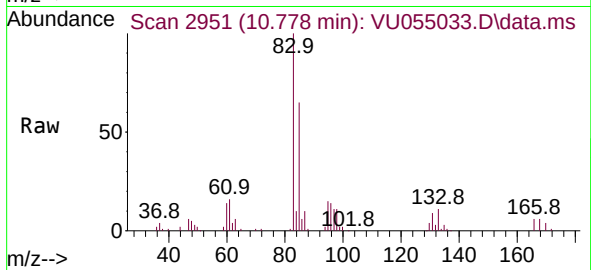




#57  
1,1,2,2-Tetrachloroethane  
Concen: 5.095 ug/L  
RT: 10.778 min Scan# 2951  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

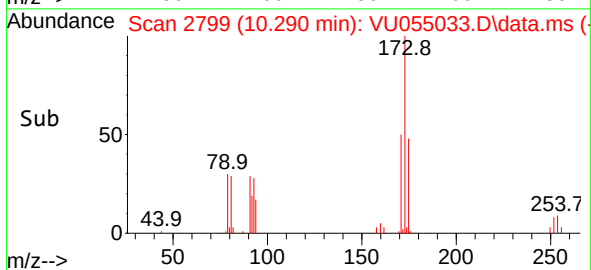
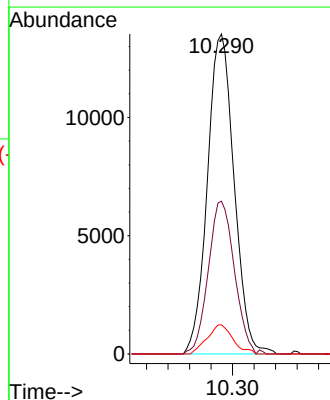
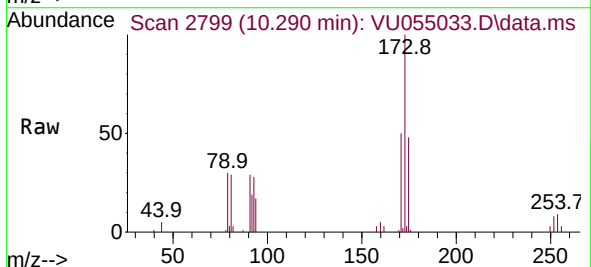
Instrument :  
MSVOA\_U  
ClientSampleId :

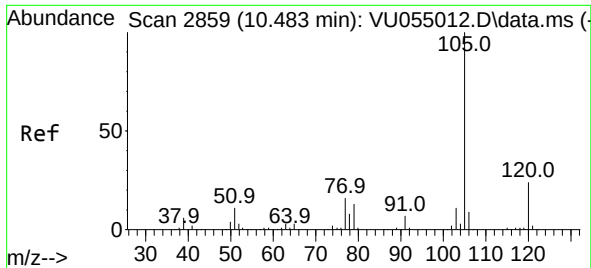
Tgt Ion: 83 Resp: 54939  
Ion Ratio Lower Upper  
83 100  
85 64.8 46.1 85.5  
131 8.9 7.7 11.5



#59  
Bromoform  
Concen: 4.336 ug/L  
RT: 10.290 min Scan# 2799  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion:173 Resp: 23336  
Ion Ratio Lower Upper  
173 100  
175 46.7 40.8 61.2  
254 8.8 6.8 10.2

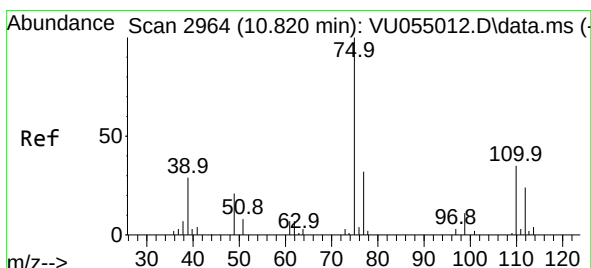
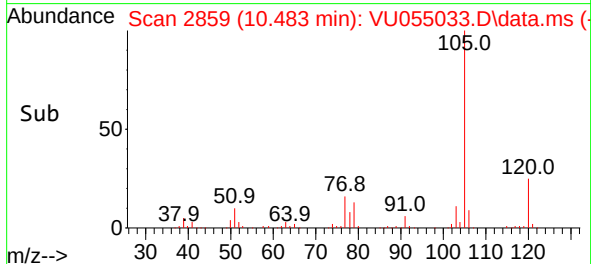
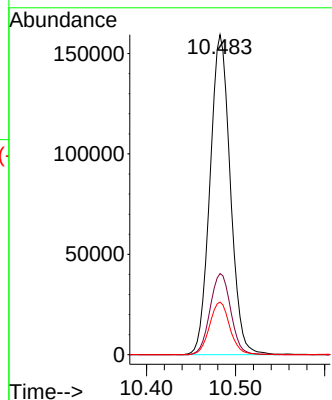
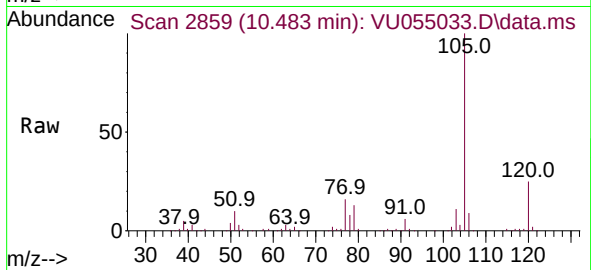




#60  
Isopropylbenzene  
Concen: 4.329 ug/L  
RT: 10.483 min Scan# 2859  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

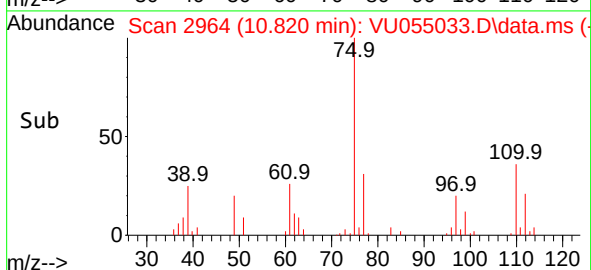
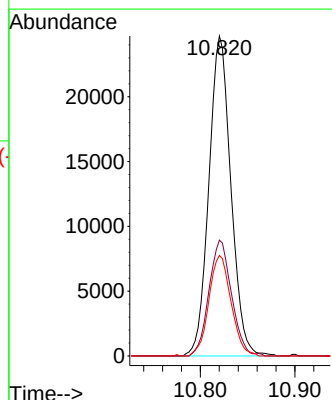
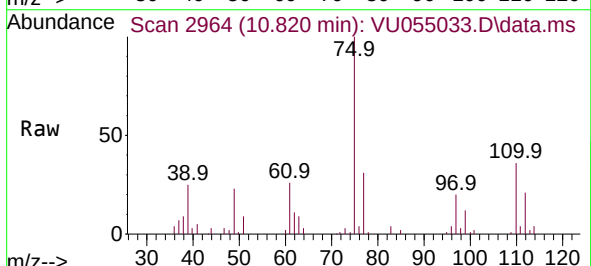
Instrument :  
MSVOA\_U  
ClientSampleId :

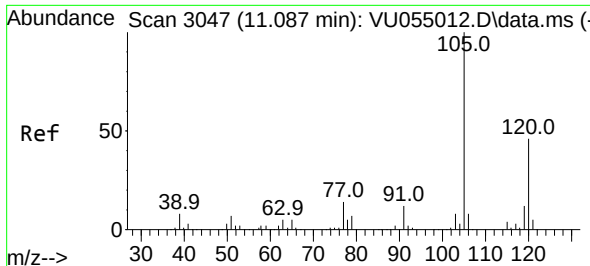
Tgt Ion:105 Resp: 251736  
Ion Ratio Lower Upper  
105 100  
120 25.9 20.8 31.2  
77 16.5 13.0 19.4



#61  
1,2,3-Trichloropropane  
Concen: 4.949 ug/L  
RT: 10.820 min Scan# 2964  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

Tgt Ion: 75 Resp: 39922  
Ion Ratio Lower Upper  
75 100  
110 37.1 29.0 43.6  
77 31.6 26.5 39.7

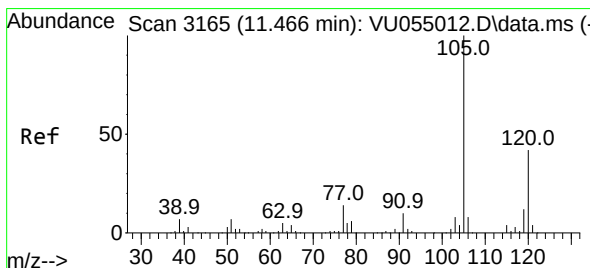
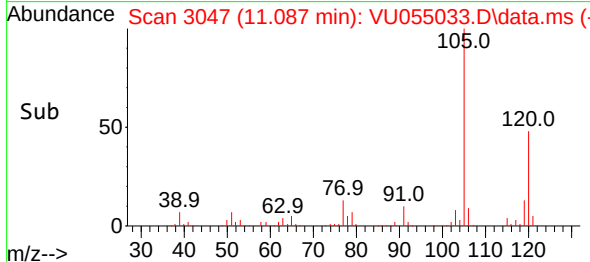
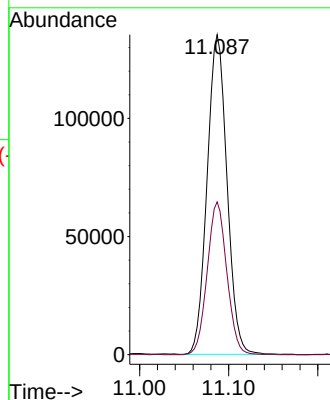
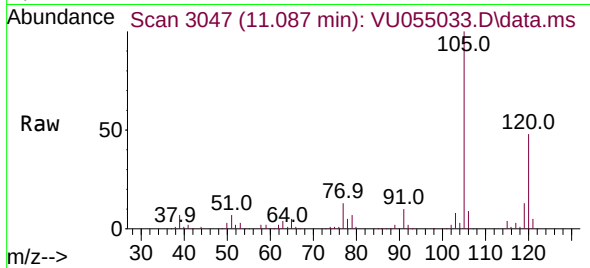




#62  
1,3,5-Trimethylbenzene  
Concen: 4.193 ug/L  
RT: 11.087 min Scan# 3047  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

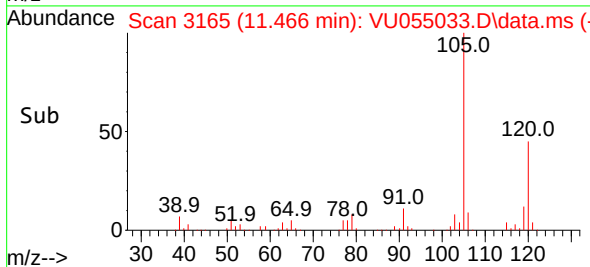
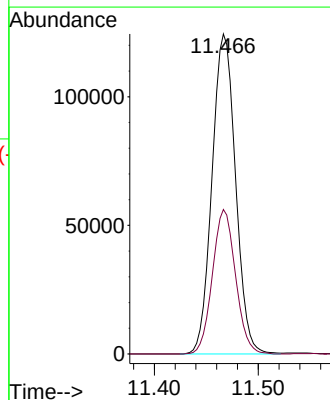
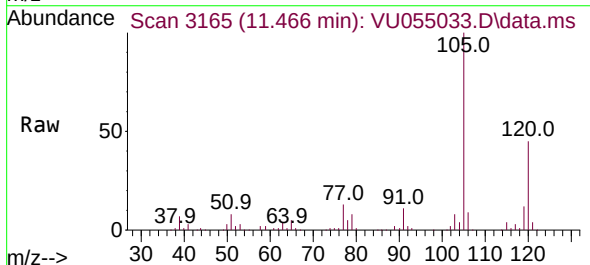
Instrument :  
MSVOA\_U  
ClientSampleId :

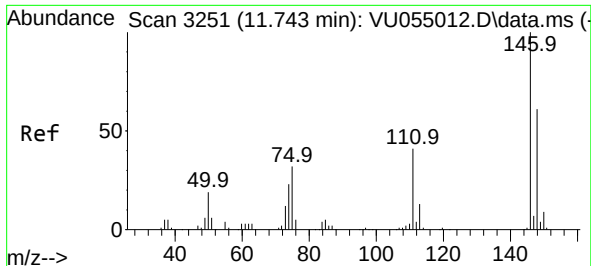
Tgt Ion:105 Resp: 209305  
Ion Ratio Lower Upper  
105 100  
120 47.1 37.4 56.2



#63  
1,2,4-Trimethylbenzene  
Concen: 4.225 ug/L  
RT: 11.466 min Scan# 3165  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

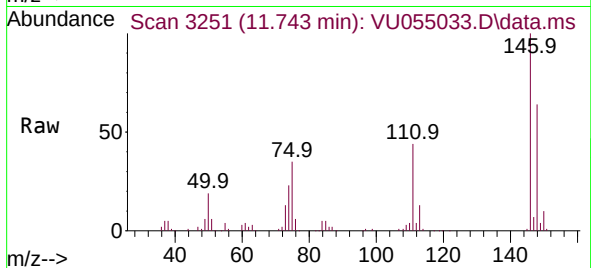
Tgt Ion:105 Resp: 195656  
Ion Ratio Lower Upper  
105 100  
120 44.3 34.3 51.5



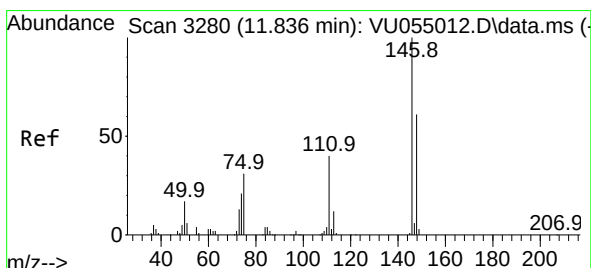
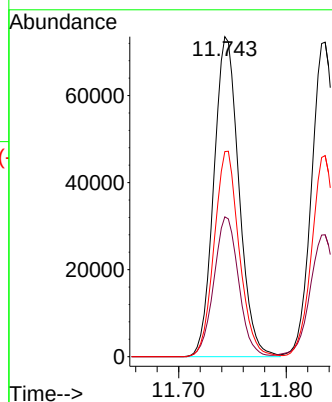
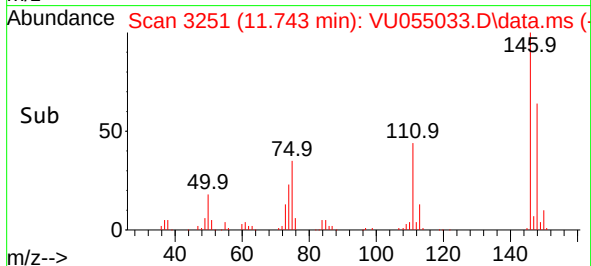


#64  
1,3-Dichlorobenzene  
Concen: 4.409 ug/L  
RT: 11.743 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07

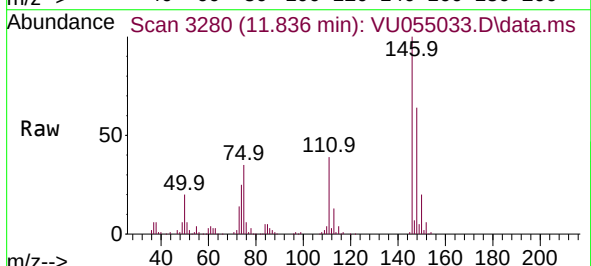
Instrument :  
MSVOA\_U  
ClientSampleId :



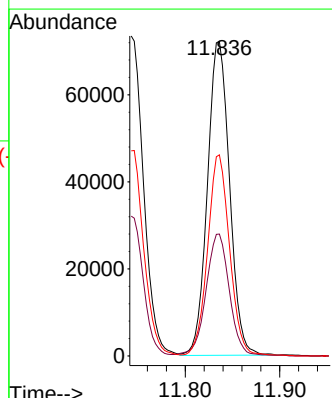
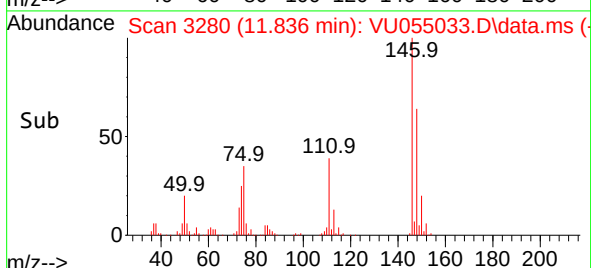
Tgt Ion:146 Resp: 119315  
Ion Ratio Lower Upper  
146 100  
111 43.7 30.4 56.4  
148 64.1 44.4 82.4

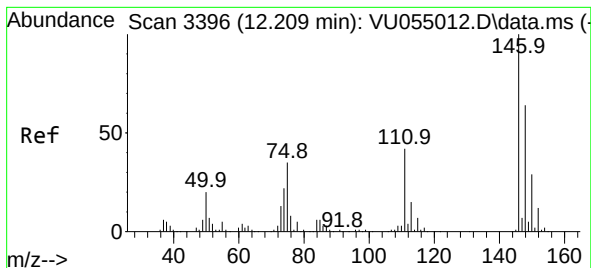


#65  
1,4-Dichlorobenzene  
Concen: 4.330 ug/L  
RT: 11.836 min Scan# 3280  
Delta R.T. -0.000 min  
Lab File: VU055033.D  
Acq: 31 Aug 2023 20:07



Tgt Ion:146 Resp: 117213  
Ion Ratio Lower Upper  
146 100  
111 38.7 29.9 55.5  
148 64.0 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 4.578 ug/L

RT: 12.212 min Scan# 31

Delta R.T. 0.003 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

ClientSampleId :

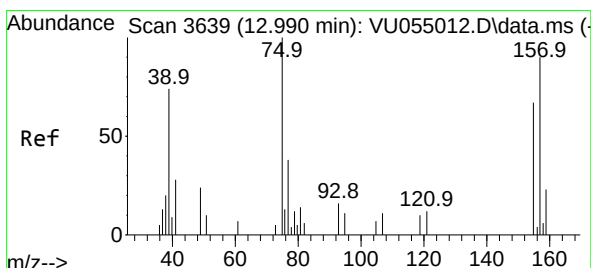
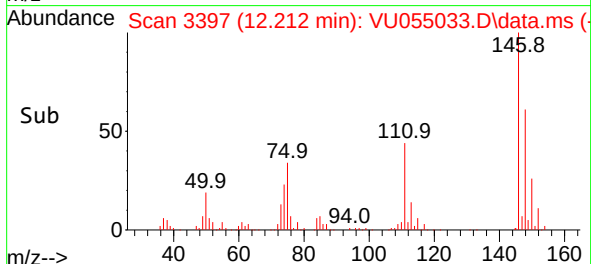
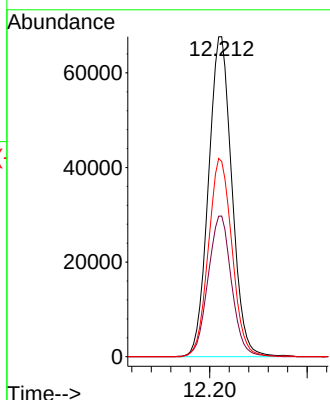
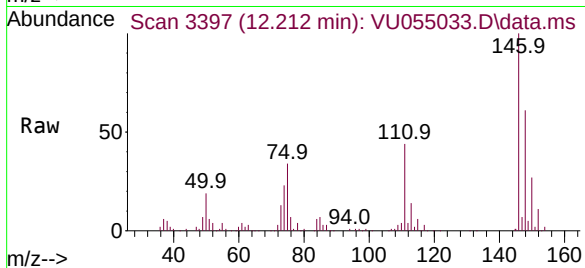
Tgt Ion:146 Resp: 112908

Ion Ratio Lower Upper

146 100

111 44.0 34.9 52.3

148 61.0 49.4 74.0



#68

1,2-Dibromo-3-chloropropane

Concen: 4.698 ug/L

RT: 12.994 min Scan# 3640

Delta R.T. 0.003 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

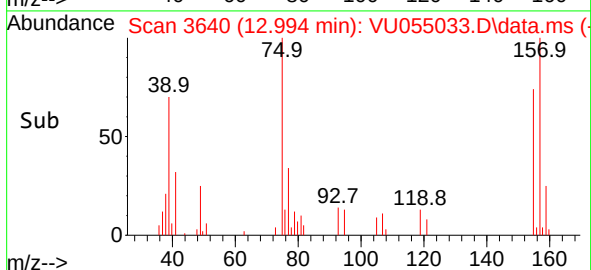
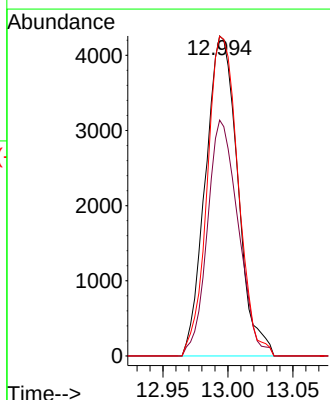
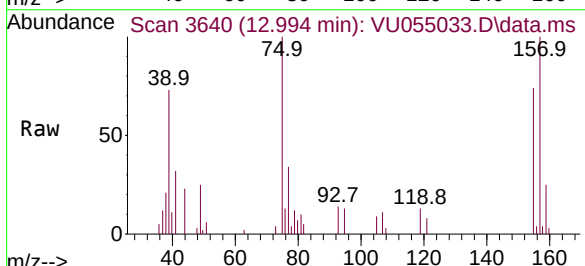
Tgt Ion: 75 Resp: 7342

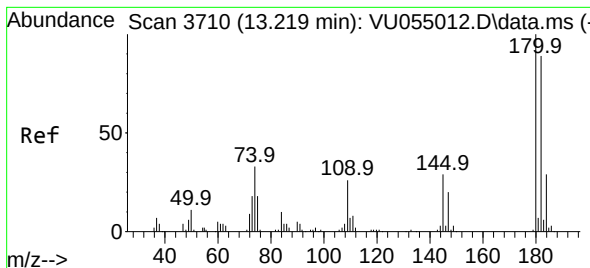
Ion Ratio Lower Upper

75 100

155 73.7 53.3 79.9

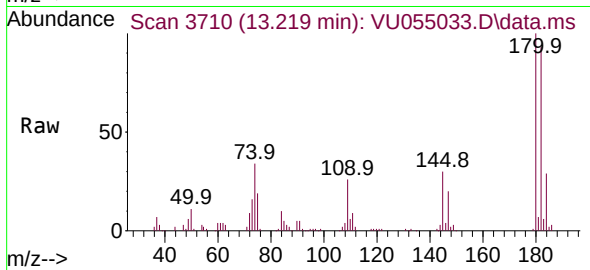
157 99.9 69.5 104.3



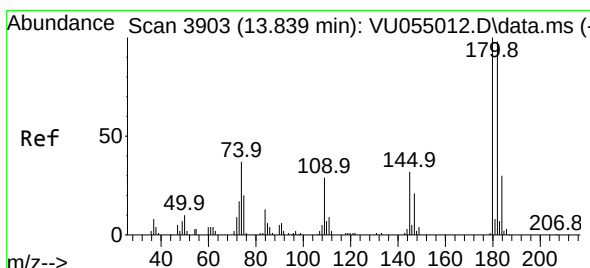
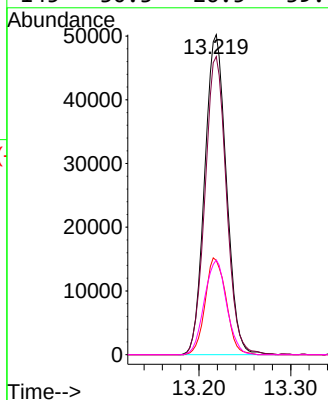
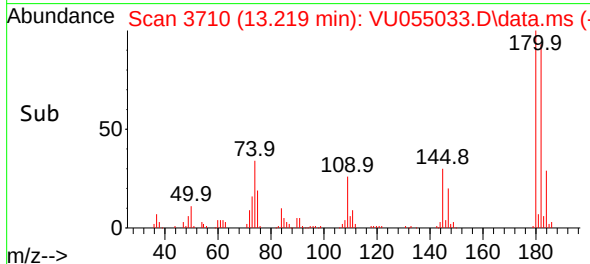


#69  
 1,3,5-Trichlorobenzene  
 Concen: 4.572 ug/L  
 RT: 13.219 min Scan# 3710  
 Delta R.T. -0.000 min  
 Lab File: VU055033.D  
 Acq: 31 Aug 2023 20:07

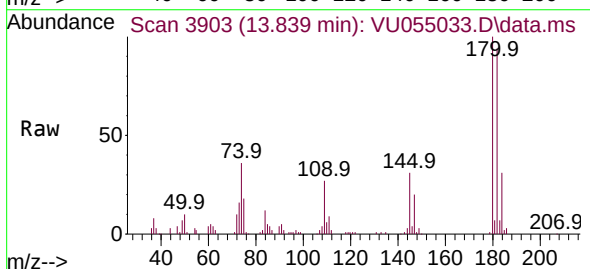
Instrument :  
 MSVOA\_U  
 ClientSampleId :



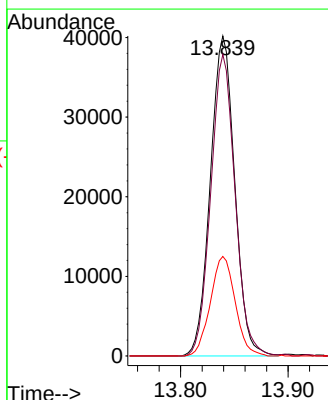
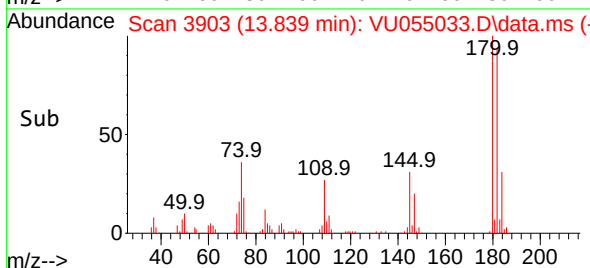
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 82475 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 92.2  | 76.6  | 114.8 |
| 184       | 29.2  | 23.6  | 35.4  |
| 145       | 30.3  | 26.5  | 39.7  |

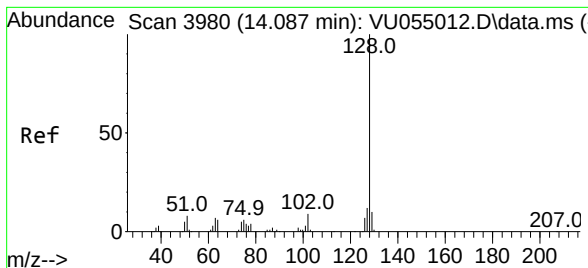


#70  
 1,2,4-trichlorobenzene  
 Concen: 4.490 ug/L  
 RT: 13.839 min Scan# 3903  
 Delta R.T. -0.000 min  
 Lab File: VU055033.D  
 Acq: 31 Aug 2023 20:07



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 63436 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 93.6  | 74.9  | 112.3 |
| 145       | 31.6  | 25.8  | 38.8  |





#71

Naphthalene

Concen: 4.427 ug/L

RT: 14.084 min Scan# 3980

Delta R.T. -0.003 min

Lab File: VU055033.D

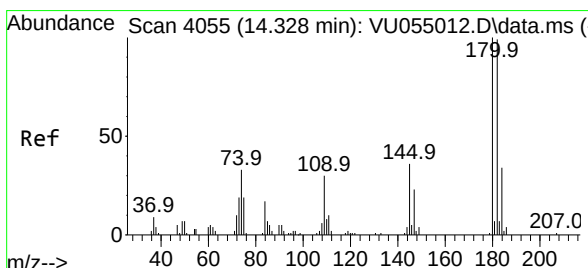
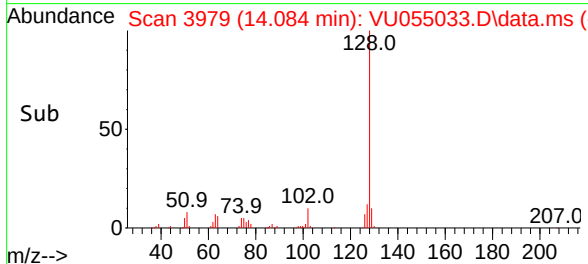
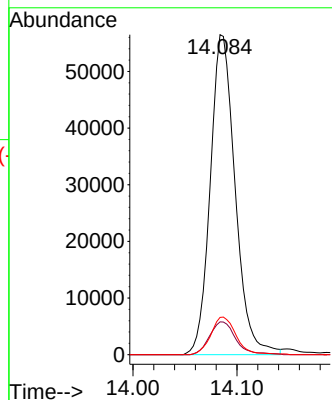
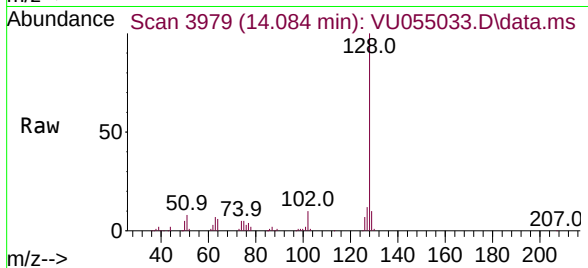
Acq: 31 Aug 2023 20:07

Instrument :

MSVOA\_U

ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:128 | Resp: | 94098    |
| Ion Ratio   | Lower | Upper    |
| 128         | 100   |          |
| 129         | 10.7  | 8.6 12.8 |
| 127         | 11.8  | 9.3 13.9 |



#72

1,2,3-Trichlorobenzene

Concen: 4.754 ug/L

RT: 14.328 min Scan# 4055

Delta R.T. -0.000 min

Lab File: VU055033.D

Acq: 31 Aug 2023 20:07

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 55659      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.3  | 77.7 116.5 |
| 145         | 35.1  | 28.1 42.1  |

