

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW112223\  
 Data File : VW033052.D  
 Acq On : 22 Nov 2023 09:19  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 23 05:51:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM112023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 22 03:48:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.532   | 114   | 323984   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783   | 117   | 322608   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185  | 152   | 201993   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.282   | 65    | 66805    | 39.438   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 78.880%  |
| 7) Chloroethane-d5            | 1.532   | 69    | 53012    | 40.691   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 81.380%  |
| 11) 1,1-Dichloroethene-d2     | 2.060   | 65    | 28855    | 41.630   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 83.260%  |
| 21) 2-Butanone-d5             | 3.783   | 46    | 103526   | 96.057   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 96.060%  |
| 24) Chloroform-d              | 4.249   | 84    | 194095   | 46.494   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.980%  |
| 26) 1,2-Dichloroethane-d4     | 4.941   | 65    | 123364   | 47.373   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.740%  |
| 32) Benzene-d6                | 4.960   | 84    | 351950   | 46.847   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.700%  |
| 36) 1,2-Dichloropropane-d6    | 5.989   | 67    | 98241    | 46.115   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 92.220%  |
| 41) Toluene-d8                | 7.243   | 98    | 342915   | 47.815   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.620%  |
| 43) trans-1,3-Dichloroprop... | 7.551   | 79    | 59475    | 47.821   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 95.640%  |
| 47) 2-Hexanone-d5             | 8.021   | 63    | 90899    | 103.111  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 103.110% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.153  | 84    | 152972   | 47.172   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 94.340%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.561  | 152   | 168571   | 46.799   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.600%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.108   | 85    | 155353   | 44.384   | ug/L   | 99       |
| 3) Chloromethane              | 1.217   | 50    | 109538   | 41.934   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.285   | 62    | 103386   | 42.666   | ug/L   | 100      |
| 6) Bromomethane               | 1.484   | 94    | 67970    | 42.450   | ug/L   | 97       |
| 8) Chloroethane               | 1.548   | 64    | 55809    | 41.641   | ug/L   | 95       |
| 9) Trichlorofluoromethane     | 1.716   | 101   | 182971   | 46.642   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069   | 101   | 87077    | 45.017   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.073   | 96    | 79609    | 44.573   | ug/L   | 90       |
| 13) Acetone                   | 2.111   | 43    | 90267    | 85.600   | ug/L   | 99       |
| 14) Carbon disulfide          | 2.243   | 76    | 264904   | 44.596   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.372   | 43    | 87318    | 47.232   | ug/L   | 97       |
| 16) Methylene chloride        | 2.449   | 84    | 109640   | 43.330   | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 2.696   | 96    | 106329   | 46.519   | ug/L   | 93       |
| 18) Methyl tert-butyl Ether   | 2.703   | 73    | 344054   | 47.985   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.111   | 63    | 183483   | 44.939   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.815   | 96    | 121029   | 47.226   | ug/L   | 99       |
| 22) 2-Butanone                | 3.860   | 43    | 121448   | 88.947   | ug/L   | 93       |
| 23) Bromochloromethane        | 4.146   | 128   | 65383    | 46.384   | ug/L   | 98       |
| 25) Chloroform                | 4.275   | 83    | 216758   | 47.167   | ug/L   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW112223\  
 Data File : VW033052.D  
 Acq On : 22 Nov 2023 09:19  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5mL/MSVOA\_V/WATER  
 ALS Vial : 1 Sample Multiplier: 1

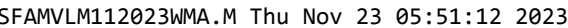
Instrument :  
 MSVOA\_V  
 ClientSampleId :

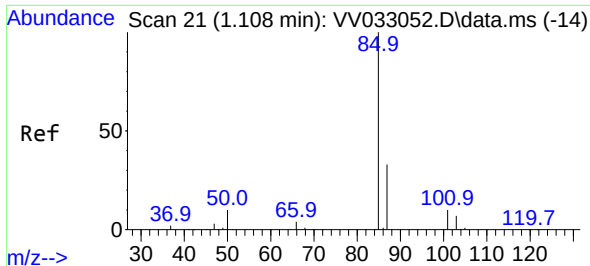
Quant Time: Nov 23 05:51:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM112023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Nov 22 03:48:12 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.040  | 62   | 167761   | 46.795  | ug/L  | 96       |
| 29) Cyclohexane               | 4.584  | 56   | 146563   | 47.087  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 4.513  | 97   | 205561   | 48.784  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.735  | 117  | 190052   | 48.400  | ug/L  | 100      |
| 33) Benzene                   | 5.008  | 78   | 434614   | 48.434  | ug/L  | 100      |
| 34) Trichloroethene           | 5.831  | 95   | 122492   | 48.429  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.050  | 83   | 179398   | 48.799  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.092  | 63   | 102804   | 46.675  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.433  | 83   | 165109   | 48.247  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 6.953  | 75   | 181698   | 47.918  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.156  | 43   | 240472   | 99.814  | ug/L  | 98       |
| 42) Toluene                   | 7.317  | 91   | 494029   | 49.687  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 185076   | 48.573  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 119126   | 48.026  | ug/L  | 99       |
| 46) Tetrachloroethene         | 7.905  | 164  | 107761   | 48.890  | ug/L  | 97       |
| 48) 2-Hexanone                | 8.072  | 43   | 191901   | 100.683 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.175  | 129  | 141615   | 49.536  | ug/L  | 96       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 126838   | 48.824  | ug/L  | 95       |
| 51) Chlorobenzene             | 8.815  | 112  | 337072   | 47.774  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.947  | 91   | 558732   | 48.951  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.072  | 106  | 222276   | 49.565  | ug/L  | 99       |
| 54) o-Xylene                  | 9.477  | 106  | 214834   | 49.767  | ug/L  | 98       |
| 55) Styrene                   | 9.497  | 104  | 394364   | 51.213  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.178 | 83   | 164742   | 47.015  | ug/L  | 100      |
| 59) Bromoform                 | 9.664  | 173  | 114810   | 48.771  | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.866  | 105  | 604843   | 49.394  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.210 | 75   | 134442   | 46.137  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 478977   | 48.753  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene    | 10.854 | 105  | 508741   | 49.429  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 310647   | 47.351  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 326965   | 46.887  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.580 | 146  | 310982   | 47.240  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.365 | 75   | 40215    | 47.440  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 246022   | 48.235  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.201 | 180  | 229232   | 49.041  | ug/L  | 99       |
| 71) Naphthalene               | 13.439 | 128  | 597454   | 51.677  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 231765   | 51.141  | ug/L  | 100      |

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

Quant Time: Nov 23 05:51:03 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM112023WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Nov 22 03:48:12 2023  
Response via : Initial Calibration

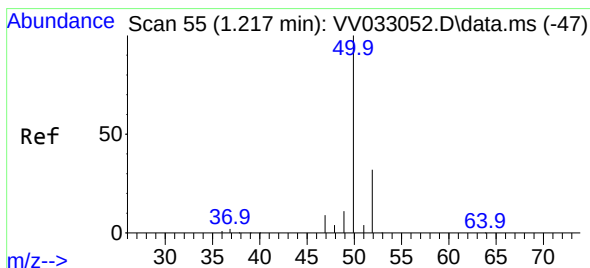
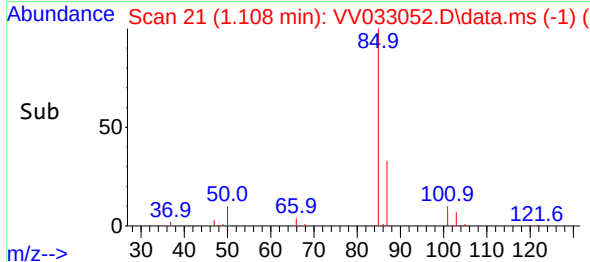
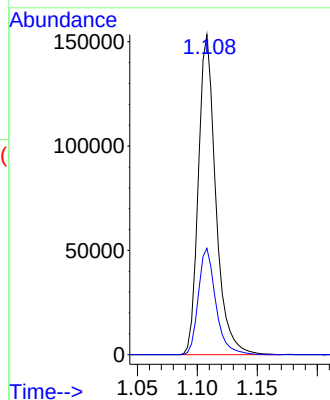
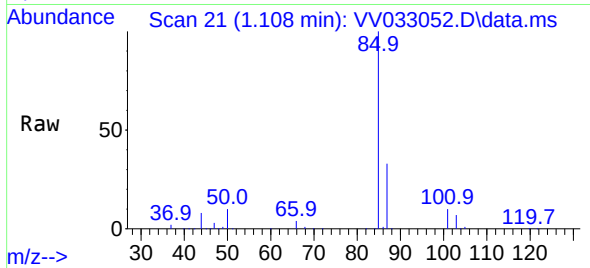




#2  
Dichlorodifluoromethane  
Concen: 44.384 ug/L  
RT: 1.108 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

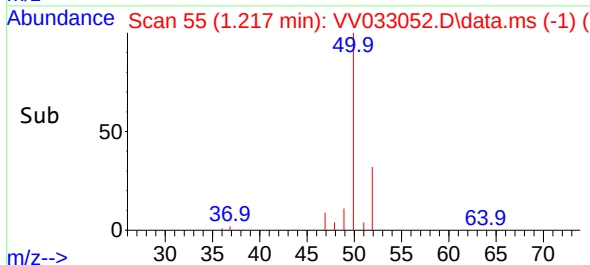
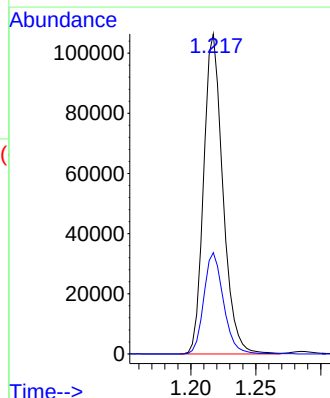
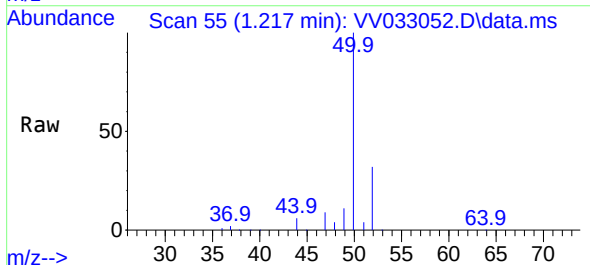
Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 85 Resp: 155353  
Ion Ratio Lower Upper  
85 100  
87 33.2 26.8 40.2

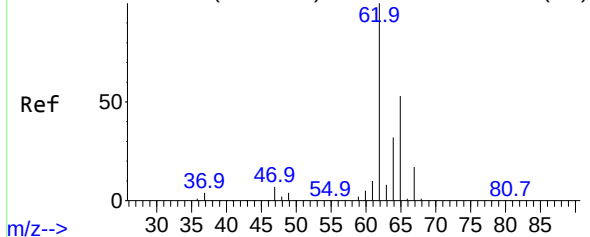


#3  
Chloromethane  
Concen: 41.934 ug/L  
RT: 1.217 min Scan# 55  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 50 Resp: 109538  
Ion Ratio Lower Upper  
50 100  
52 31.7 22.7 42.3



Abundance Scan 76 (1.285 min): VV033052.D\data.ms (-68)



#5

Vinyl chloride

Concen: 42.666 ug/L

RT: 1.285 min Scan# 76

Delta R.T. 0.000 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

ClientSampleId :

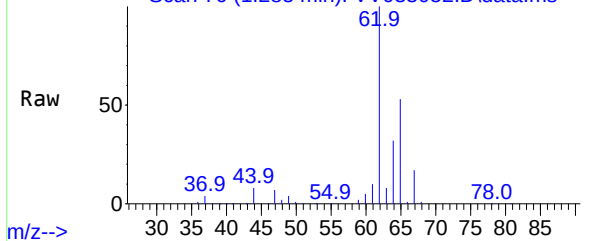
Tgt Ion: 62 Resp: 103386

Ion Ratio Lower Upper

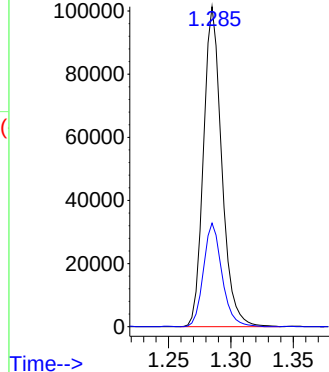
62 100

64 32.3 22.7 42.1

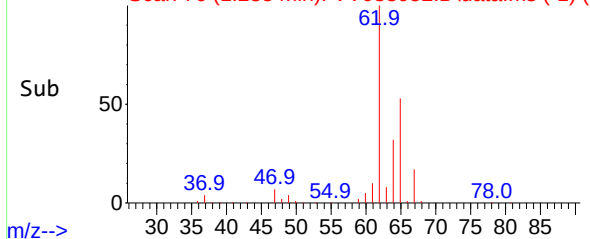
Abundance Scan 76 (1.285 min): VV033052.D\data.ms



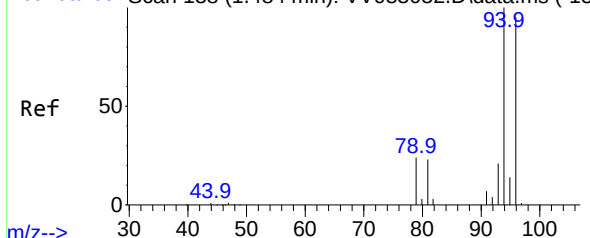
Abundance



Abundance Scan 76 (1.285 min): VV033052.D\data.ms (-1)



Abundance Scan 138 (1.484 min): VV033052.D\data.ms (-13)



#6

Bromomethane

Concen: 42.450 ug/L

RT: 1.484 min Scan# 138

Delta R.T. 0.000 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

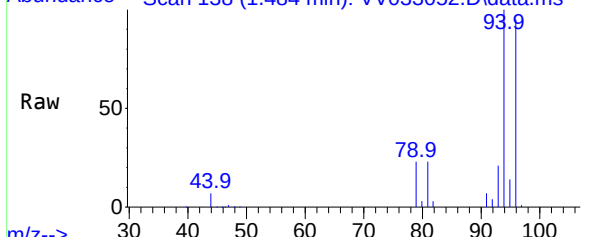
Tgt Ion: 94 Resp: 67970

Ion Ratio Lower Upper

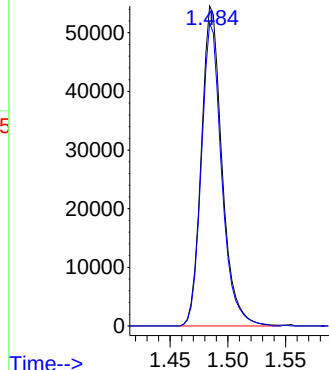
94 100

96 94.7 64.4 119.6

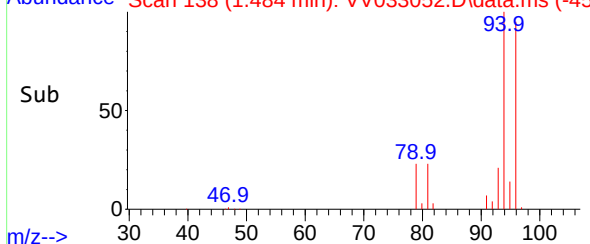
Abundance Scan 138 (1.484 min): VV033052.D\data.ms

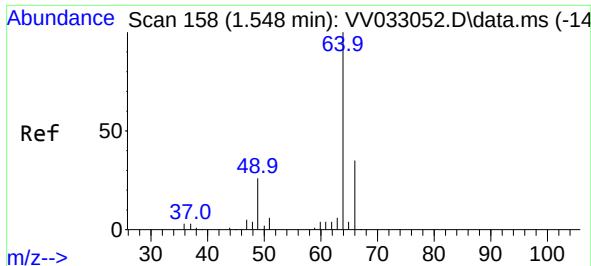


Abundance



Abundance Scan 138 (1.484 min): VV033052.D\data.ms (-45)

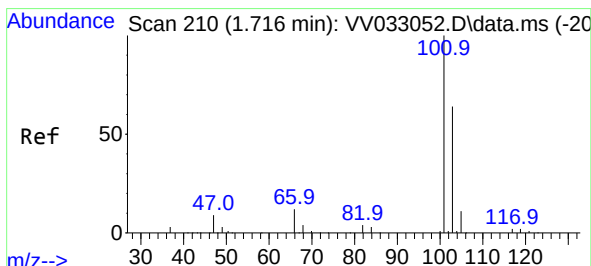
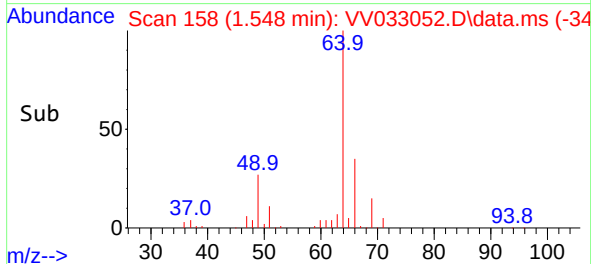
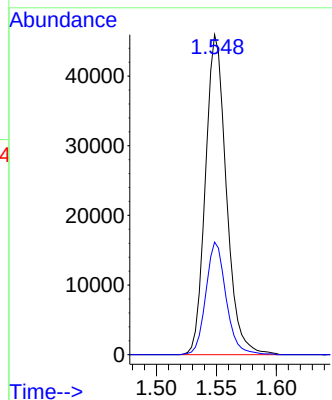
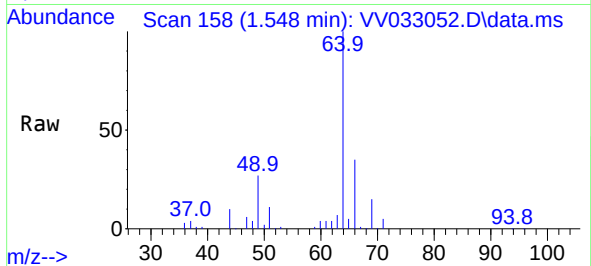




#8  
Chloroethane  
Concen: 41.641 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

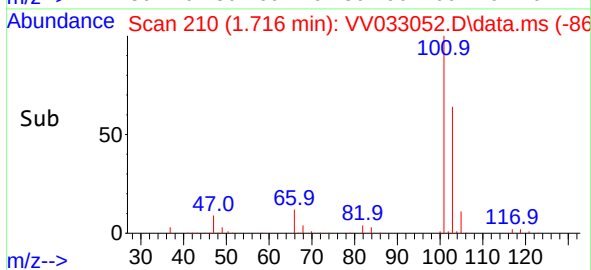
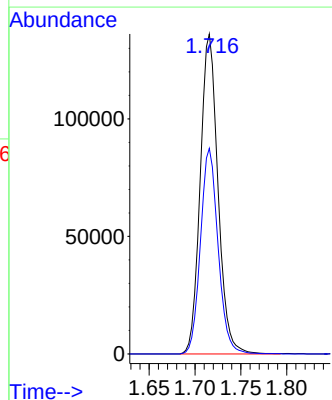
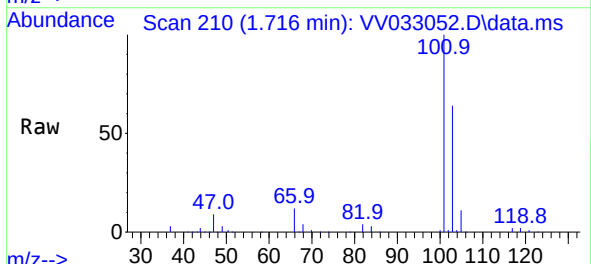
Instrument :  
MSVOA\_V  
ClientSampleId :

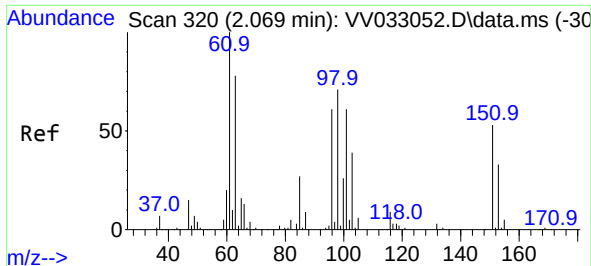
Tgt Ion: 64 Resp: 55809  
Ion Ratio Lower Upper  
64 100  
66 35.2 22.8 42.4



#9  
Trichlorofluoromethane  
Concen: 46.642 ug/L  
RT: 1.716 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion:101 Resp: 182971  
Ion Ratio Lower Upper  
101 100  
103 63.8 52.1 78.1

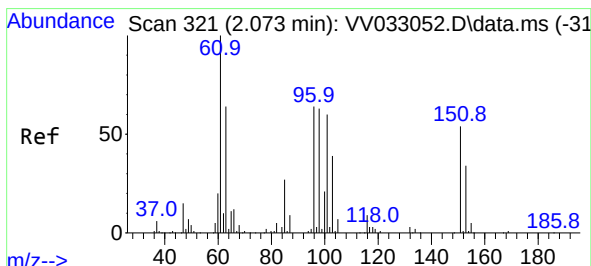
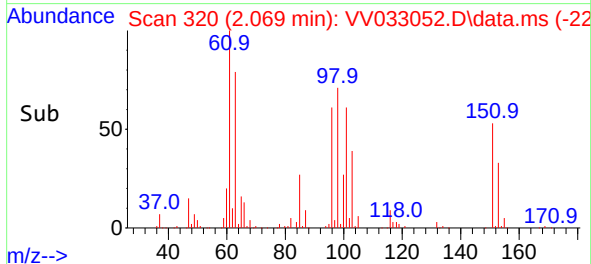
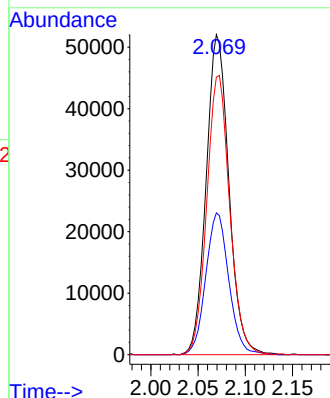
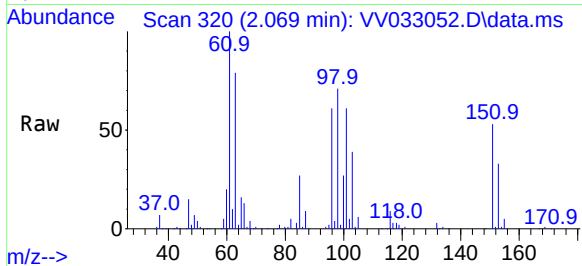




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 45.017 ug/L  
RT: 2.069 min Scan# 310  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

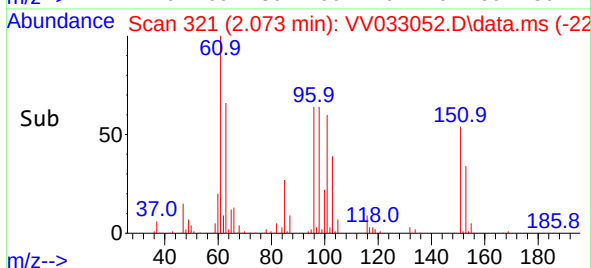
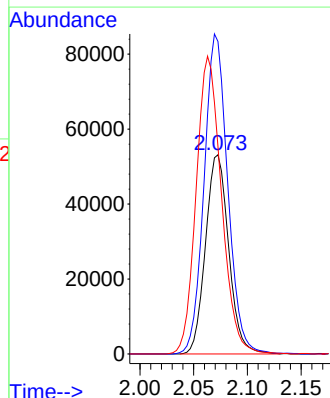
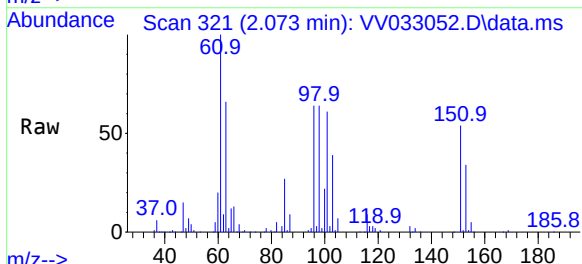
Instrument :  
MSVOA\_V  
ClientSampleId :

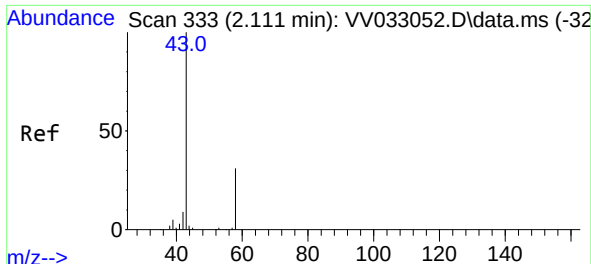
Tgt Ion:101 Resp: 87077  
Ion Ratio Lower Upper  
101 100  
85 45.0 35.5 53.3  
151 88.1 67.0 100.4



#12  
1,1-Dichloroethene  
Concen: 44.573 ug/L  
RT: 2.073 min Scan# 321  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 96 Resp: 79609  
Ion Ratio Lower Upper  
96 100  
61 156.9 116.6 216.6  
63 104.2 84.8 157.4





#13

Acetone

Concen: 85.600 ug/L

RT: 2.111 min Scan# 311

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

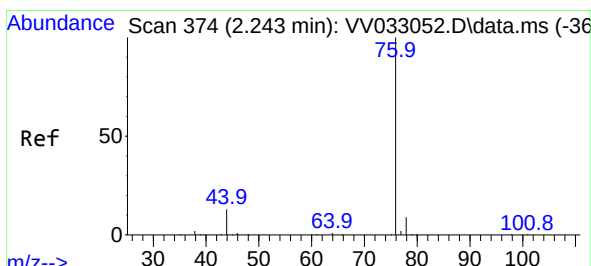
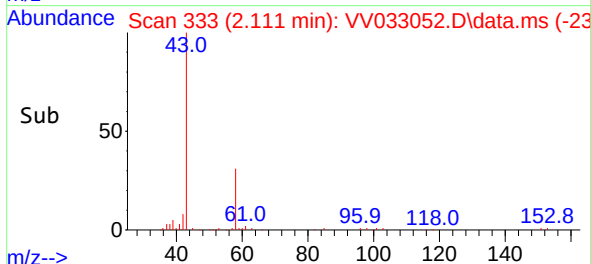
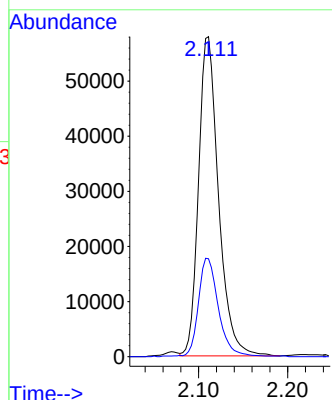
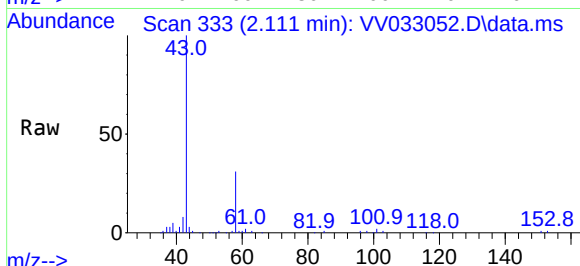
ClientSampleId :

Tgt Ion: 43 Resp: 90267

Ion Ratio Lower Upper

43 100

58 30.8 0.0 62.6



#14

Carbon disulfide

Concen: 44.596 ug/L

RT: 2.243 min Scan# 374

Delta R.T. 0.000 min

Lab File: VV033052.D

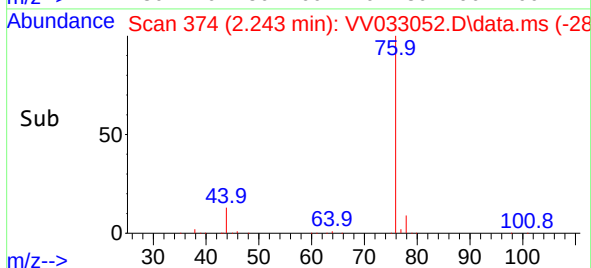
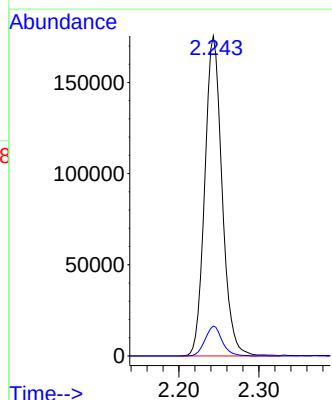
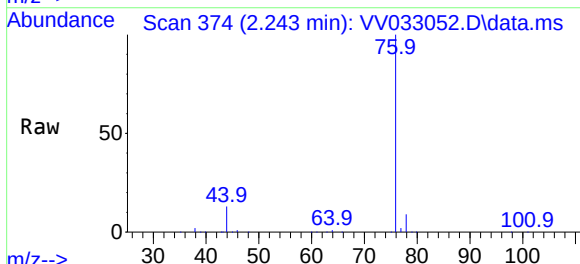
Acq: 22 Nov 2023 09:19

Tgt Ion: 76 Resp: 264904

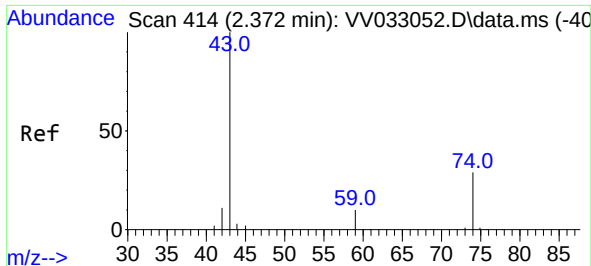
Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4



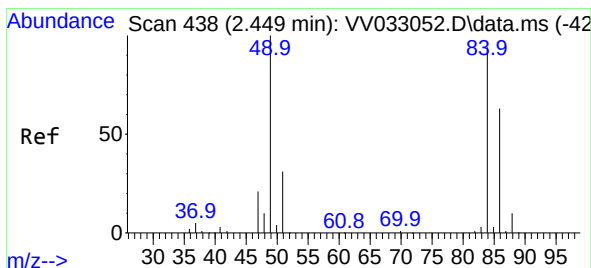
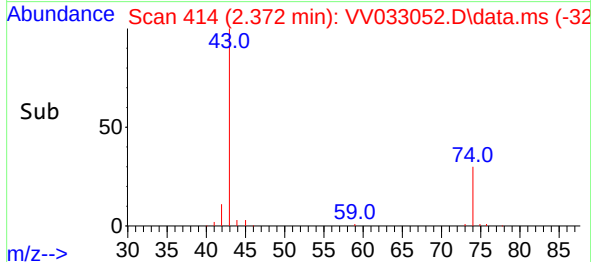
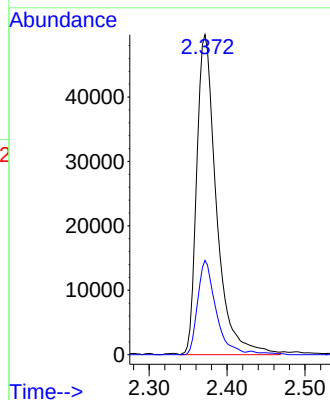
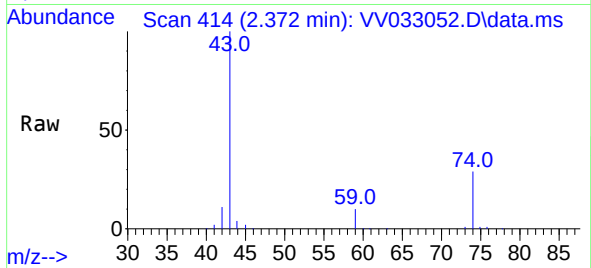




#15  
Methyl Acetate  
Concen: 47.232 ug/L  
RT: 2.372 min Scan# 414  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

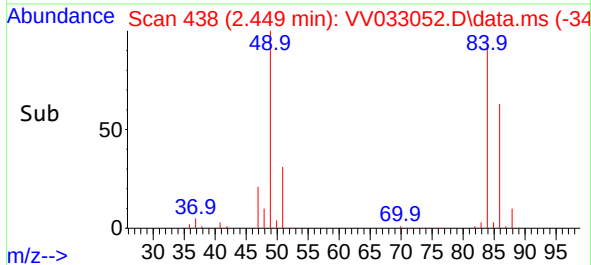
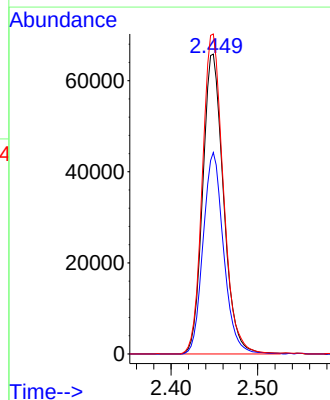
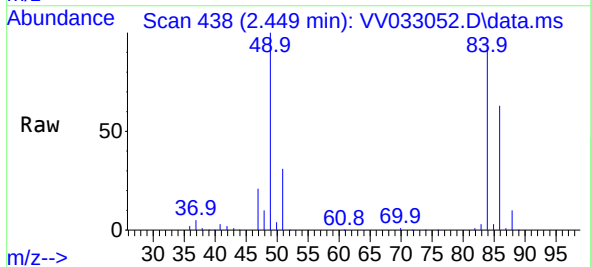
Instrument :  
MSVOA\_V  
ClientSampleId :

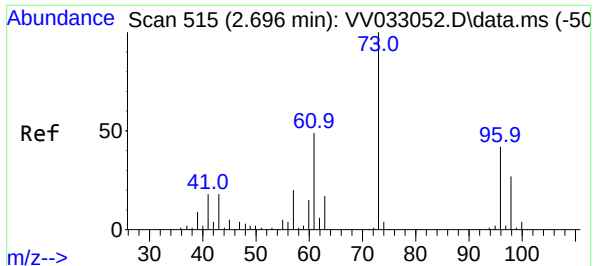
Tgt Ion: 43 Resp: 87318  
Ion Ratio Lower Upper  
43 100  
74 27.0 22.7 34.1



#16  
Methylene chloride  
Concen: 43.330 ug/L  
RT: 2.449 min Scan# 438  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 84 Resp: 109640  
Ion Ratio Lower Upper  
84 100  
86 67.2 44.7 83.1  
49 106.7 76.6 142.3





#17

trans-1,2-Dichloroethene

Concen: 46.519 ug/L

RT: 2.696 min Scan# 515

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

ClientSampleId :

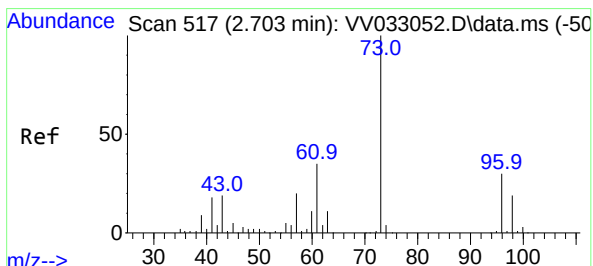
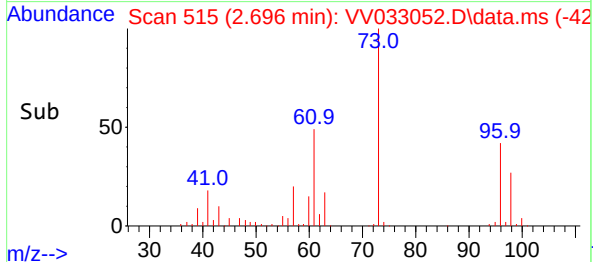
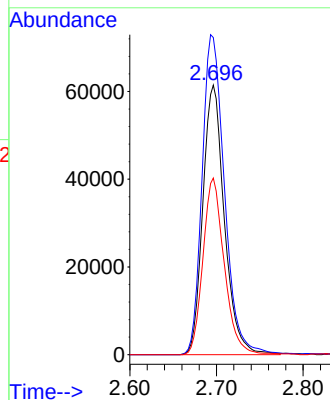
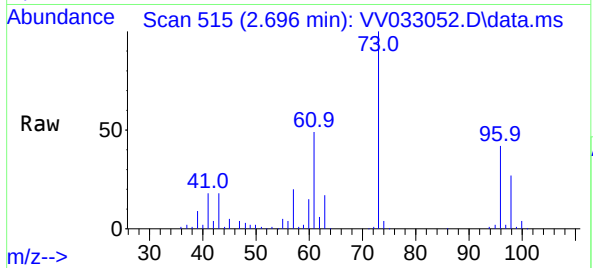
Tgt Ion: 96 Resp: 106329

Ion Ratio Lower Upper

96 100

61 117.6 89.5 166.3

98 65.5 43.6 81.0



#18

Methyl tert-butyl Ether

Concen: 47.985 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

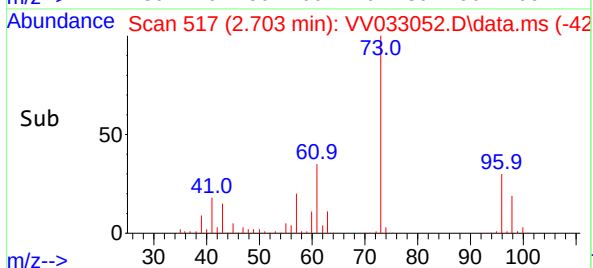
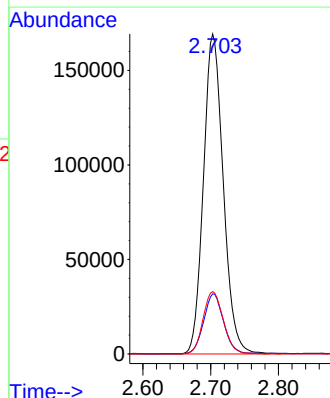
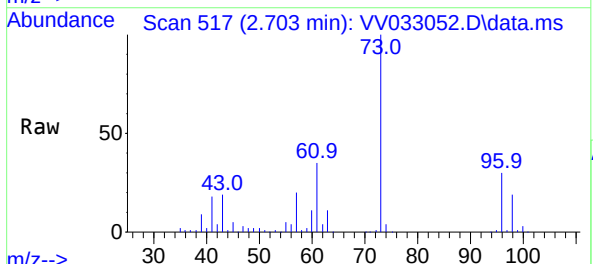
Tgt Ion: 73 Resp: 344054

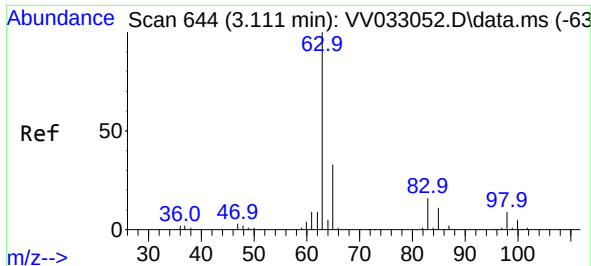
Ion Ratio Lower Upper

73 100

43 18.6 15.2 22.8

57 19.8 15.8 23.8

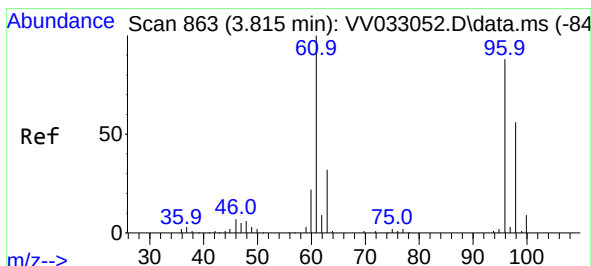
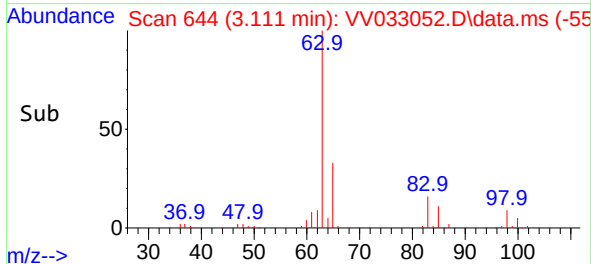
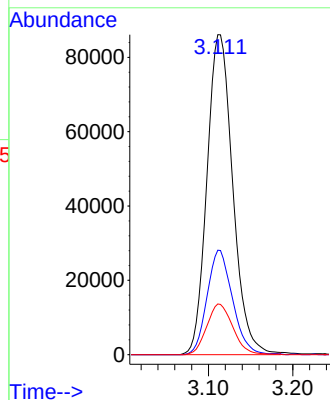
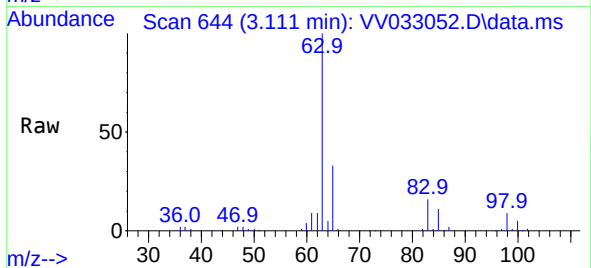




#19  
1,1-Dichloroethane  
Concen: 44.939 ug/L  
RT: 3.111 min Scan# 644  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

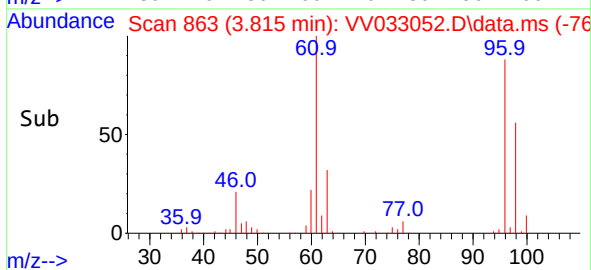
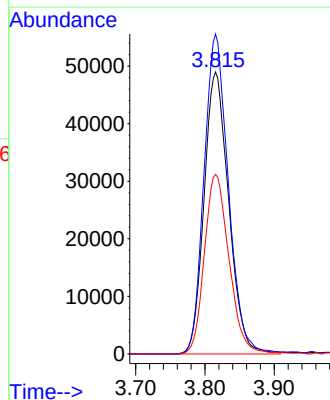
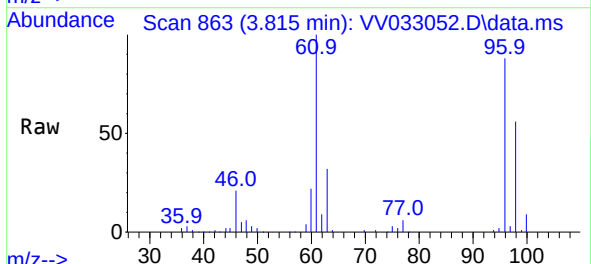
Instrument :  
MSVOA\_V  
ClientSampleId :

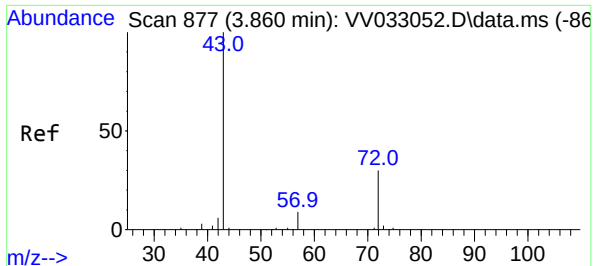
Tgt Ion: 63 Resp: 183483  
Ion Ratio Lower Upper  
63 100  
65 32.6 22.4 41.6  
83 15.8 10.7 19.9



#20  
cis-1,2-Dichloroethene  
Concen: 47.226 ug/L  
RT: 3.815 min Scan# 863  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 96 Resp: 121029  
Ion Ratio Lower Upper  
96 100  
61 113.5 80.2 149.0  
98 63.7 45.1 83.7

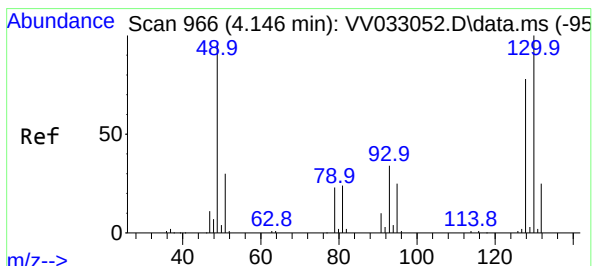
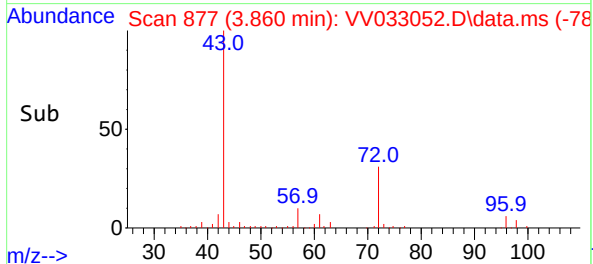
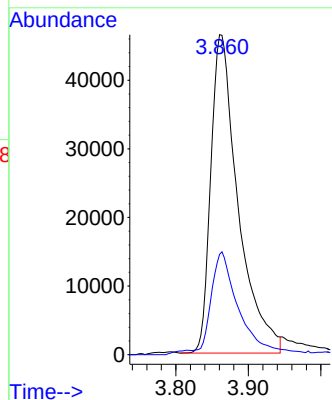
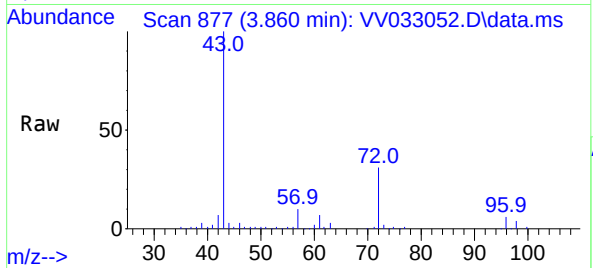




#22  
2-Butanone  
Concen: 88.947 ug/L  
RT: 3.860 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

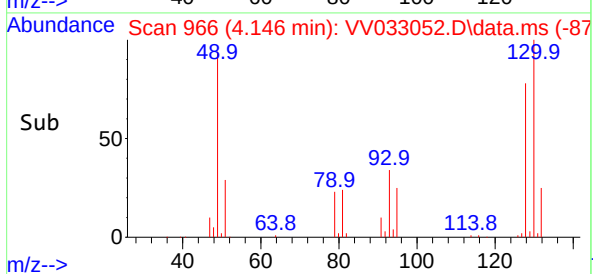
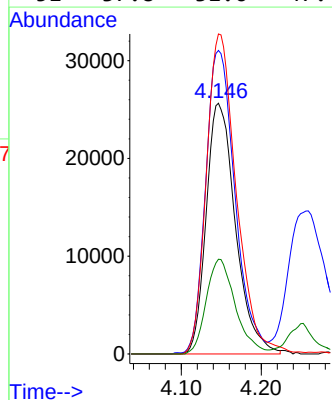
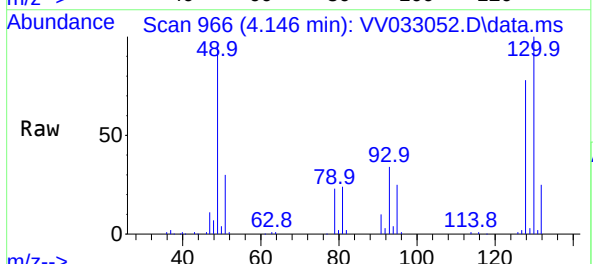
Instrument :  
MSVOA\_V  
ClientSampleId :

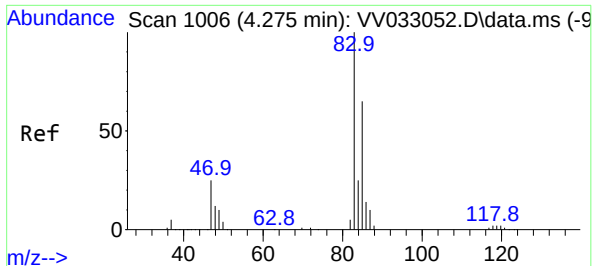
Tgt Ion: 43 Resp: 121448  
Ion Ratio Lower Upper  
43 100  
72 31.2 13.9 41.7



#23  
Bromochloromethane  
Concen: 46.384 ug/L  
RT: 4.146 min Scan# 966  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion:128 Resp: 65383  
Ion Ratio Lower Upper  
128 100  
49 121.0 87.1 161.7  
130 127.6 88.1 163.5  
51 37.8 31.6 47.4





#25

Chloroform

Concen: 47.167 ug/L

RT: 4.275 min Scan# 1006

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

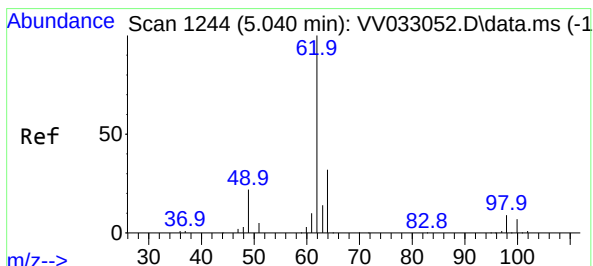
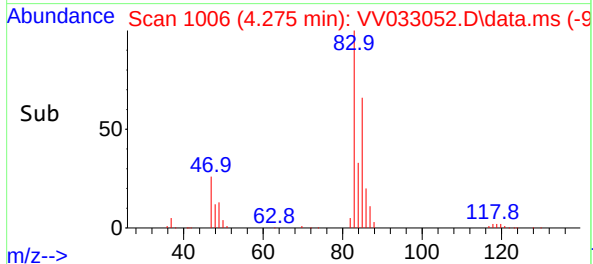
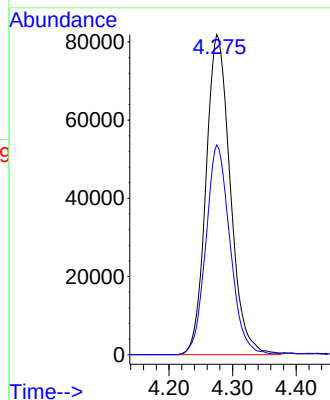
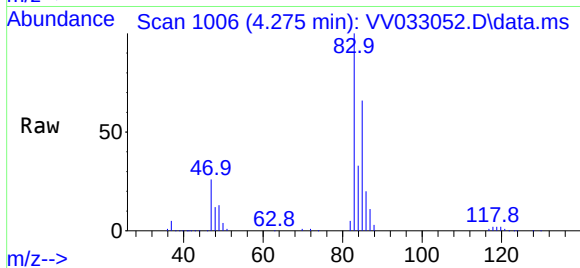
ClientSampleId :

Tgt Ion: 83 Resp: 216758

Ion Ratio Lower Upper

83 100

85 65.5 46.2 85.8



#27

1,2-Dichloroethane

Concen: 46.795 ug/L

RT: 5.040 min Scan# 1244

Delta R.T. 0.003 min

Lab File: VV033052.D

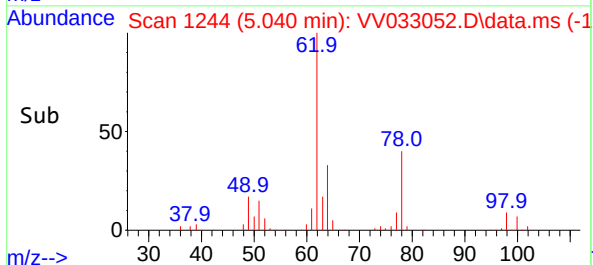
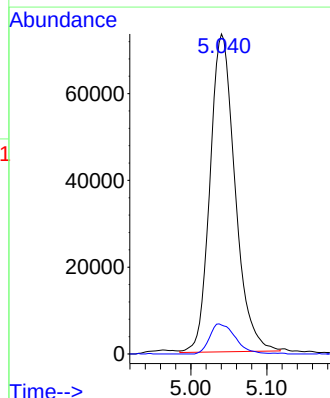
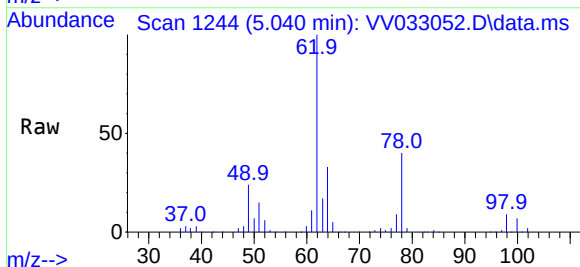
Acq: 22 Nov 2023 09:19

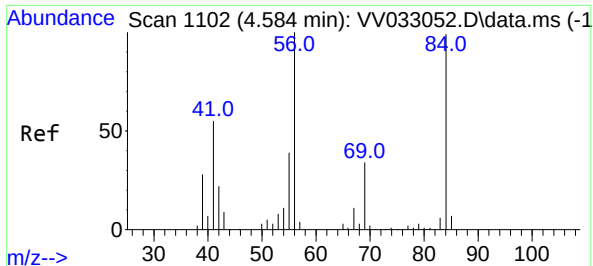
Tgt Ion: 62 Resp: 167761

Ion Ratio Lower Upper

62 100

98 9.0 8.3 12.5





#29

Cyclohexane

Concen: 47.087 ug/L

RT: 4.584 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

ClientSampleId :

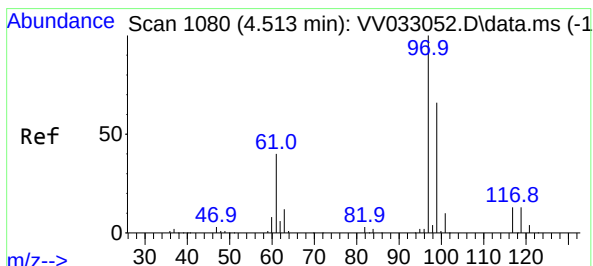
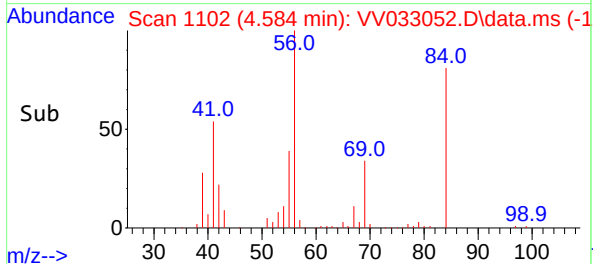
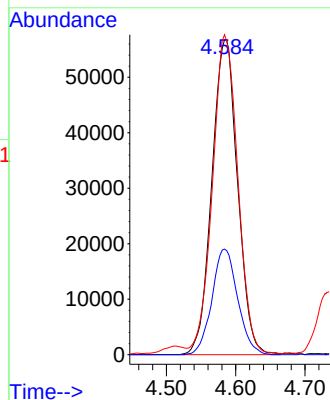
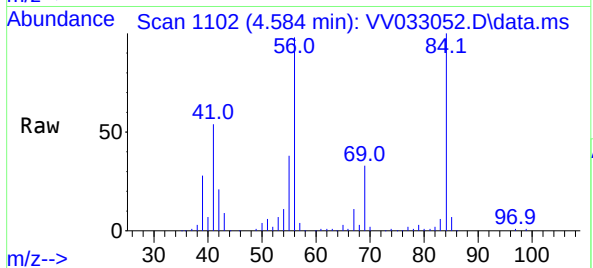
Tgt Ion: 56 Resp: 146563

Ion Ratio Lower Upper

56 100

69 33.5 26.7 40.1

84 99.3 78.1 117.1



#30

1,1,1-Trichloroethane

Concen: 48.784 ug/L

RT: 4.513 min Scan# 1080

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

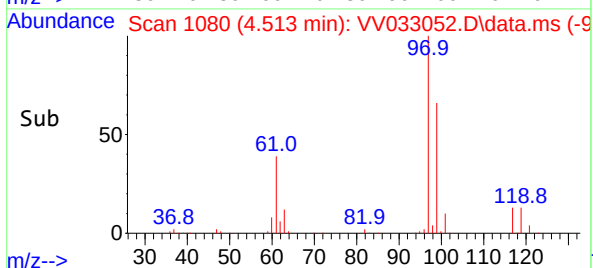
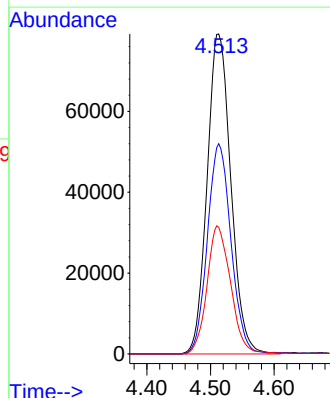
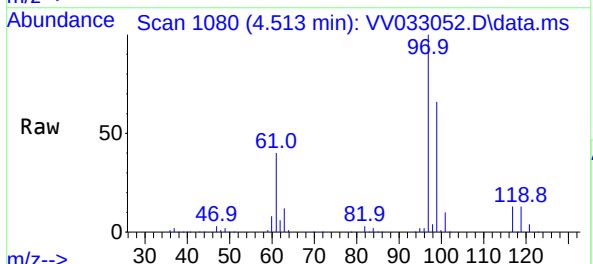
Tgt Ion: 97 Resp: 205561

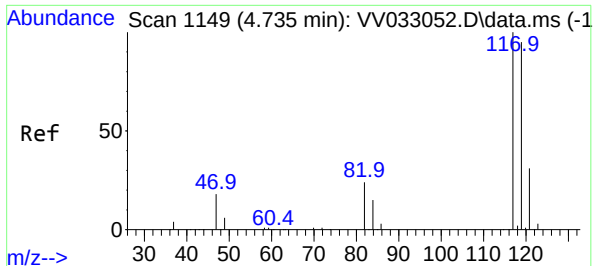
Ion Ratio Lower Upper

97 100

99 65.2 51.2 76.8

61 39.4 32.1 48.1

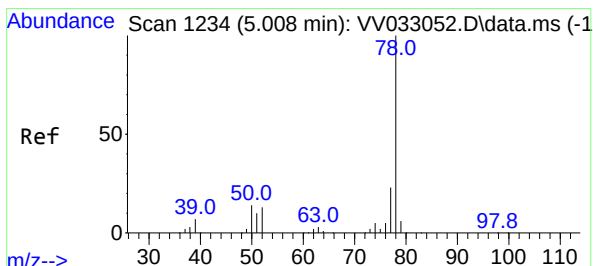
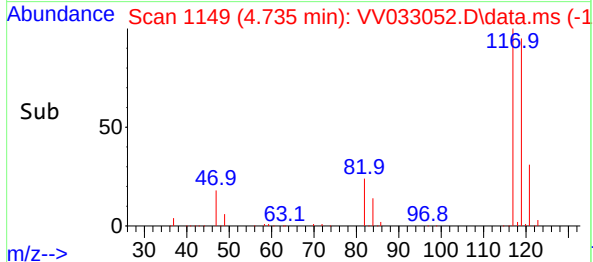
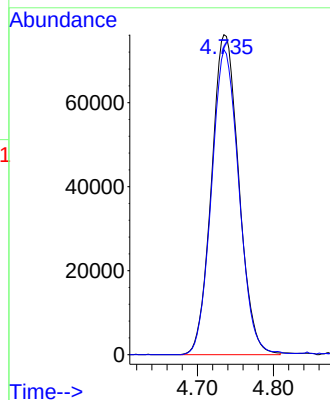
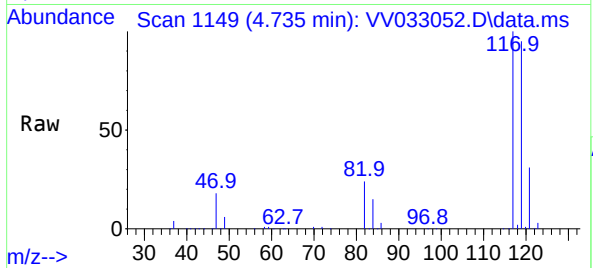




#31  
Carbon tetrachloride  
Concen: 48.400 ug/L  
RT: 4.735 min Scan# 1149  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

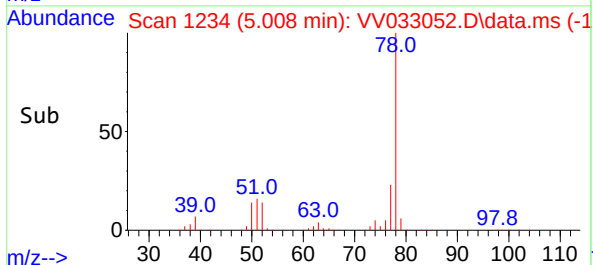
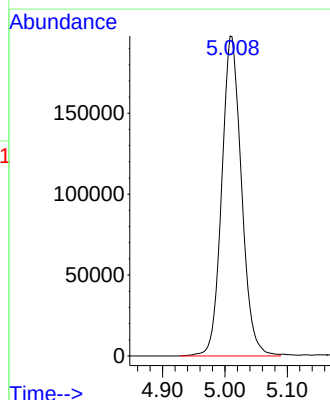
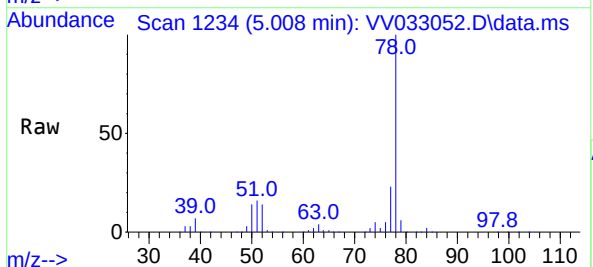
Instrument :  
MSVOA\_V  
ClientSampleId :

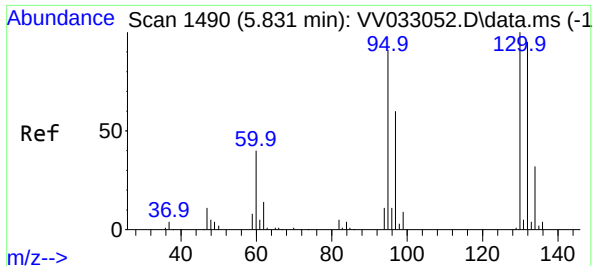
Tgt Ion:117 Resp: 190052  
Ion Ratio Lower Upper  
117 100  
119 95.2 76.5 114.7



#33  
Benzene  
Concen: 48.434 ug/L  
RT: 5.008 min Scan# 1234  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 78 Resp: 434614

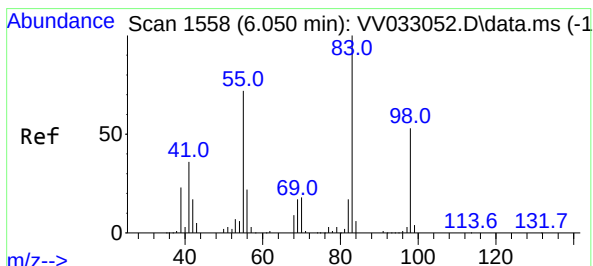
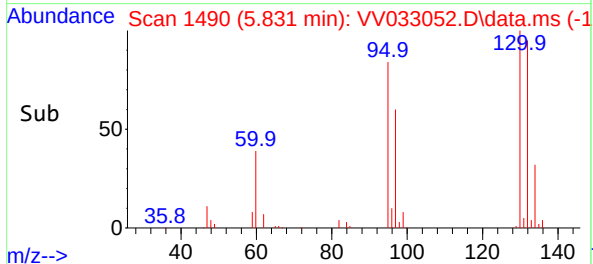
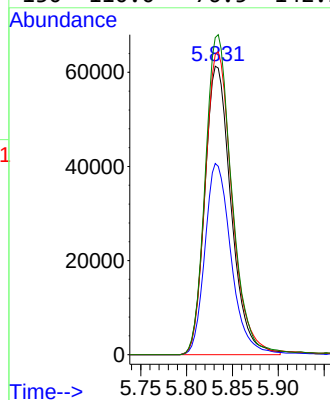
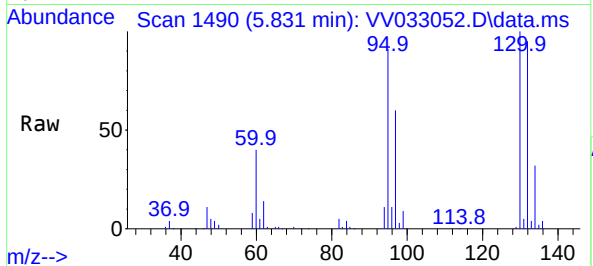




#34  
Trichloroethene  
Concen: 48.429 ug/L  
RT: 5.831 min Scan# 1490  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

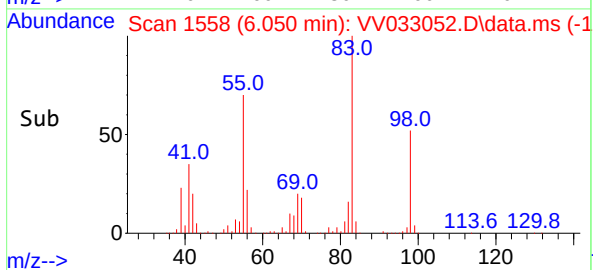
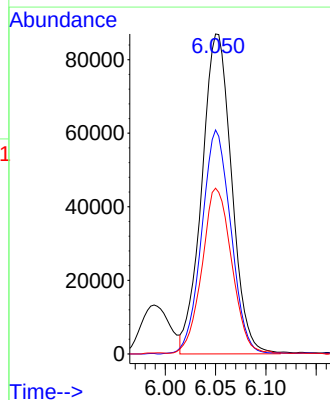
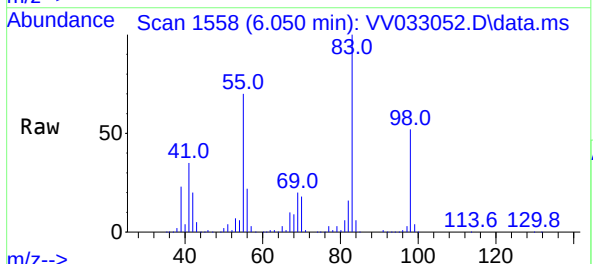
Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 95 Resp: 122492  
Ion Ratio Lower Upper  
95 100  
97 66.3 46.0 85.4  
132 104.1 76.0 141.2  
130 110.0 76.5 142.1

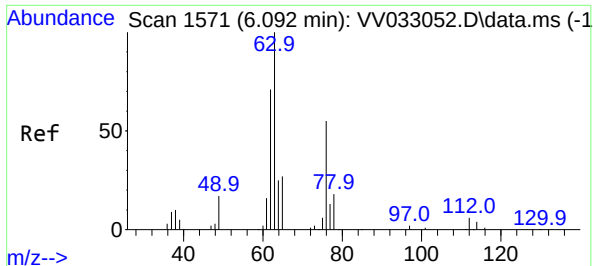


#35  
Methylcyclohexane  
Concen: 48.799 ug/L  
RT: 6.050 min Scan# 1558  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 83 Resp: 179398  
Ion Ratio Lower Upper  
83 100  
55 68.4 56.3 84.5  
98 51.4 40.5 60.7







#37

1,2-Dichloropropane

Concen: 46.675 ug/L

RT: 6.092 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

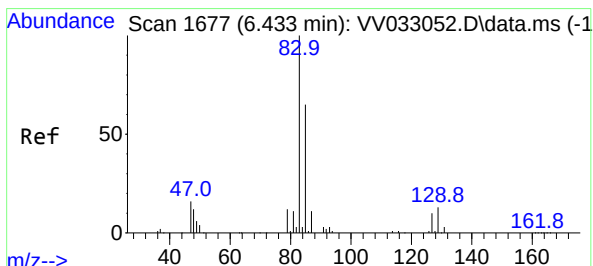
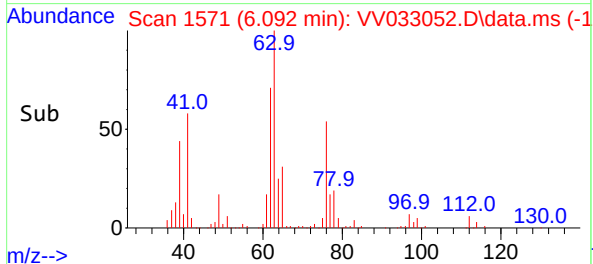
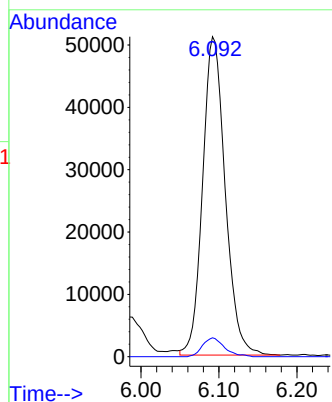
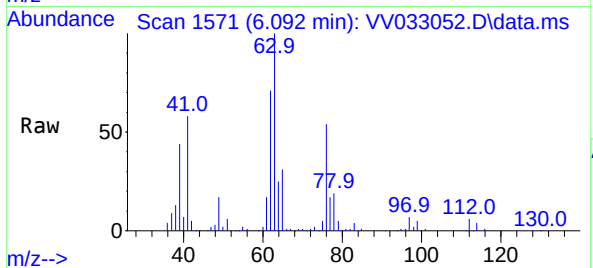
ClientSampleId :

Tgt Ion: 63 Resp: 102804

Ion Ratio Lower Upper

63 100

112 5.6 4.6 7.0



#38

Bromodichloromethane

Concen: 48.247 ug/L

RT: 6.433 min Scan# 1677

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

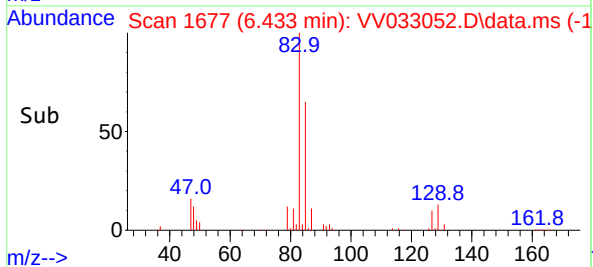
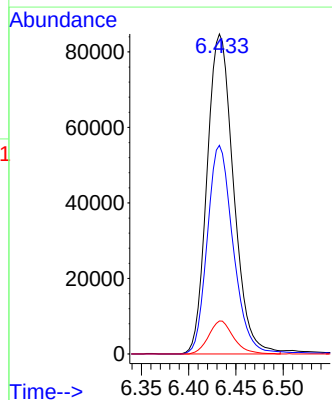
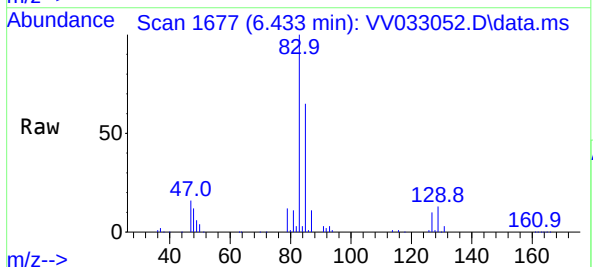
Tgt Ion: 83 Resp: 165109

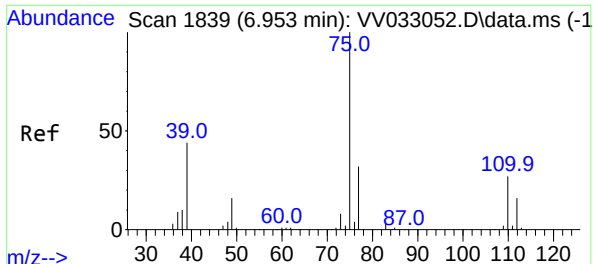
Ion Ratio Lower Upper

83 100

85 65.2 44.7 83.1

127 10.3 7.3 10.9





#39

cis-1,3-Dichloropropene

Concen: 47.918 ug/L

RT: 6.953 min Scan# 1839

Delta R.T. 0.000 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

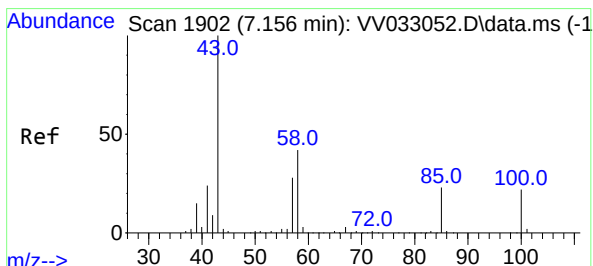
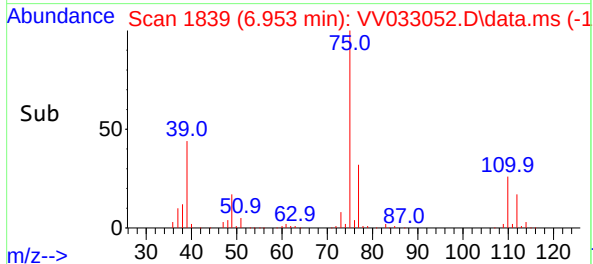
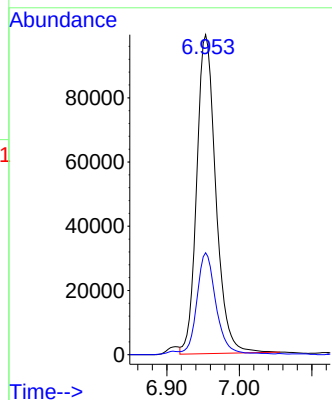
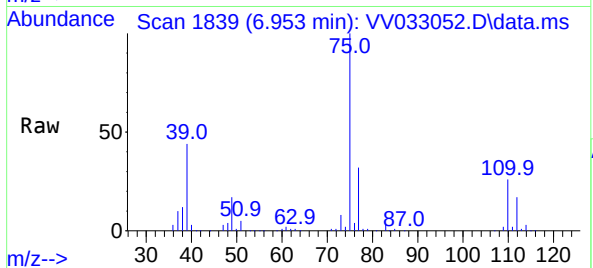
ClientSampleId :

Tgt Ion: 75 Resp: 181698

Ion Ratio Lower Upper

75 100

77 31.8 21.9 40.7



#40

4-Methyl-2-pentanone

Concen: 99.814 ug/L

RT: 7.156 min Scan# 1902

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

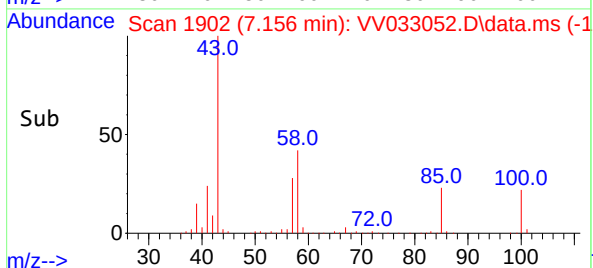
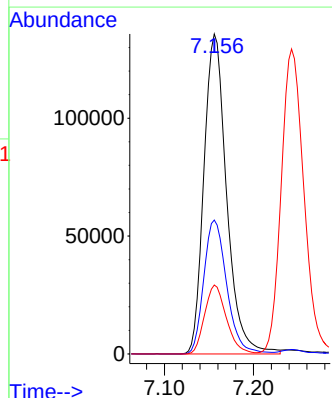
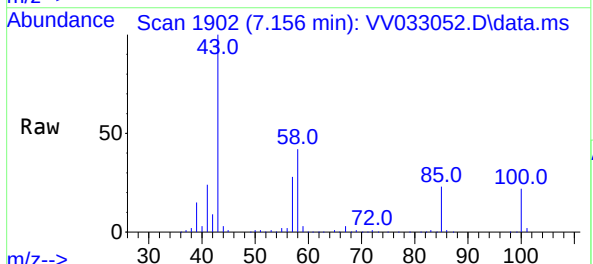
Tgt Ion: 43 Resp: 240472

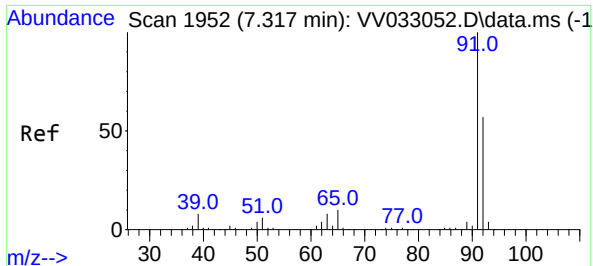
Ion Ratio Lower Upper

43 100

58 42.3 33.2 49.8

100 20.7 14.9 22.3





#42

Toluene

Concen: 49.687 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

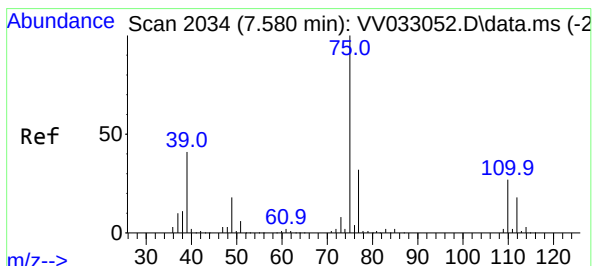
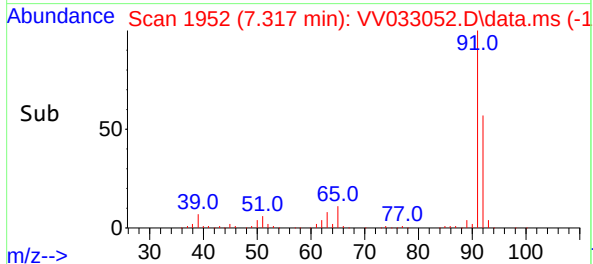
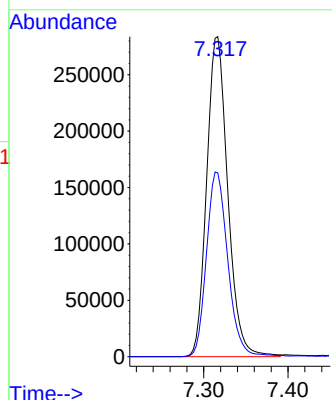
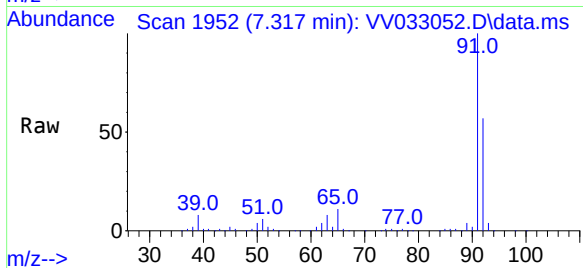
ClientSampleId :

Tgt Ion: 91 Resp: 494029

Ion Ratio Lower Upper

91 100

92 57.4 40.9 75.9



#44

trans-1,3-Dichloropropene

Concen: 48.573 ug/L

RT: 7.580 min Scan# 2034

Delta R.T. 0.003 min

Lab File: VV033052.D

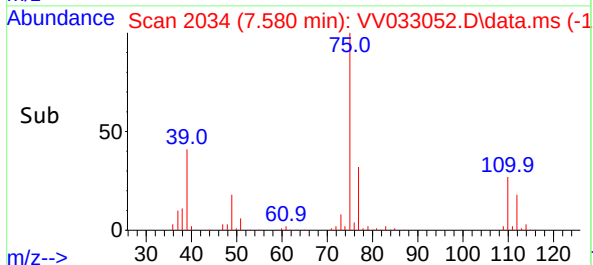
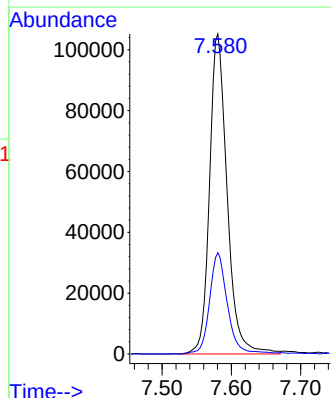
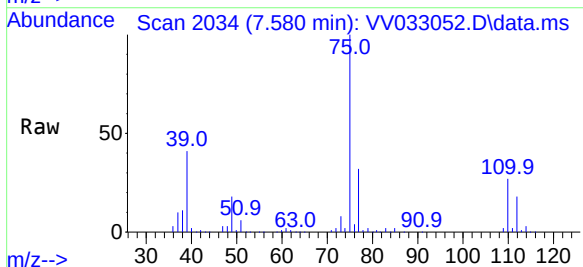
Acq: 22 Nov 2023 09:19

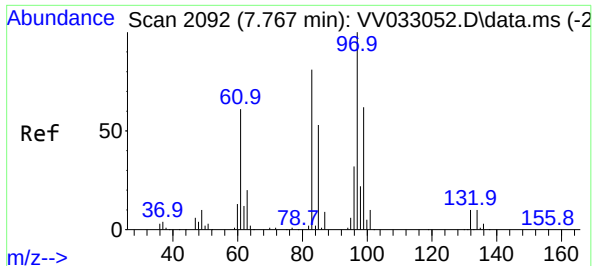
Tgt Ion: 75 Resp: 185076

Ion Ratio Lower Upper

75 100

77 31.6 21.9 40.7



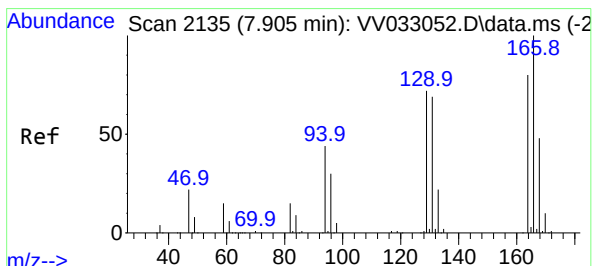
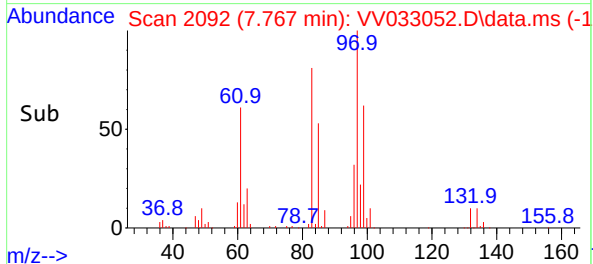
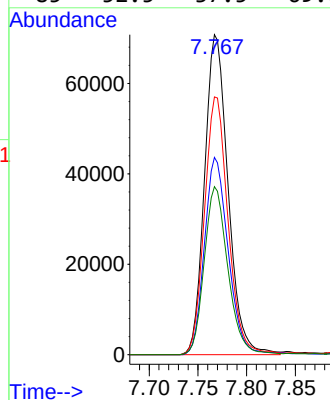
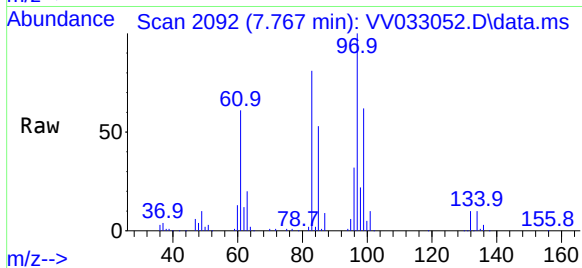


#45  
1,1,2-Trichloroethane  
Concen: 48.026 ug/L  
RT: 7.767 min Scan# 2092  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 97 Resp: 119126

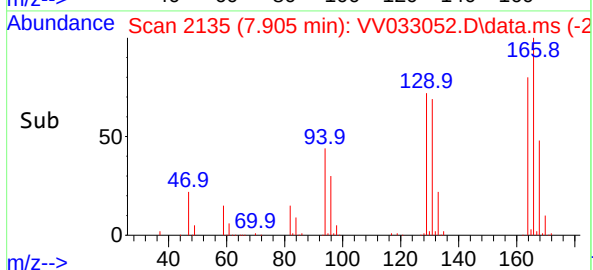
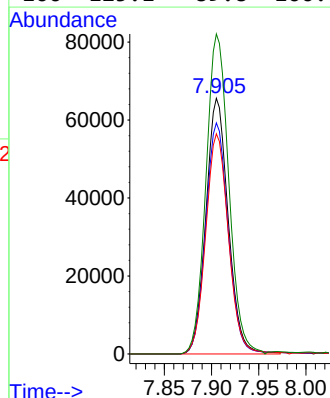
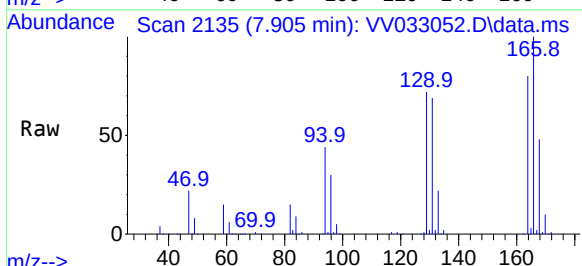
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 61.7  | 43.5  | 80.9  |
| 83  | 80.5  | 55.6  | 103.2 |
| 85  | 52.5  | 37.5  | 69.6  |

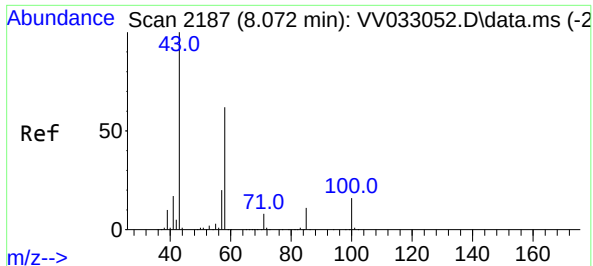


#46  
Tetrachloroethene  
Concen: 48.890 ug/L  
RT: 7.905 min Scan# 2135  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 164 Resp: 107761

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 90.4  | 65.7  | 122.1 |
| 131 | 86.1  | 62.5  | 116.1 |
| 166 | 125.1 | 89.8  | 166.8 |



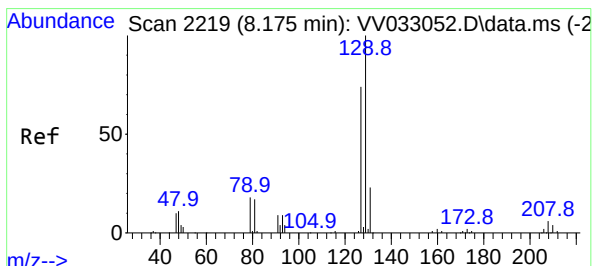
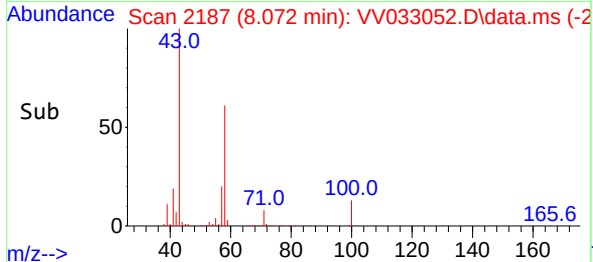
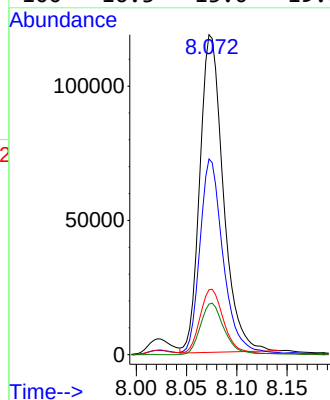
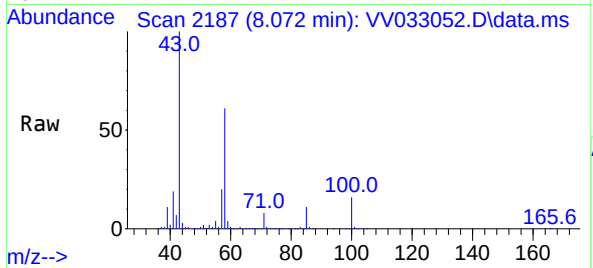


#48  
2-Hexanone  
Concen: 100.683 ug/L  
RT: 8.072 min Scan# 2187  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 43 Resp: 191901

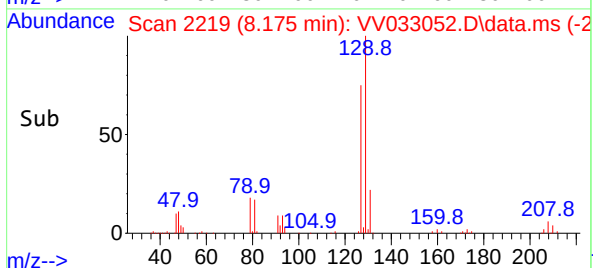
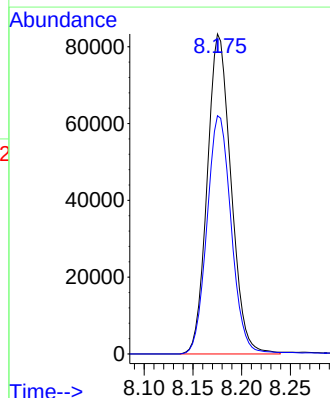
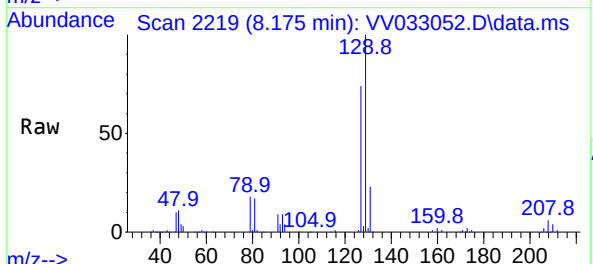
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 61.0  | 47.0  | 70.6  |
| 57  | 21.4  | 17.0  | 25.6  |
| 100 | 16.3  | 13.0  | 19.6  |

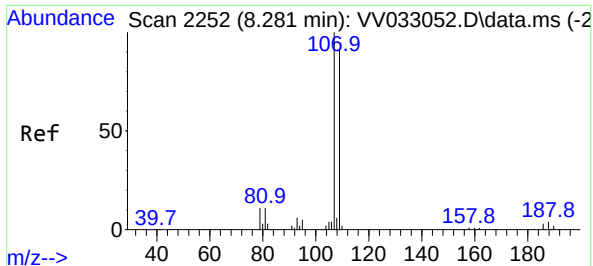


#49  
Dibromochloromethane  
Concen: 49.536 ug/L  
RT: 8.175 min Scan# 2219  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 129 Resp: 141615

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 74.4  | 54.4  | 101.0 |

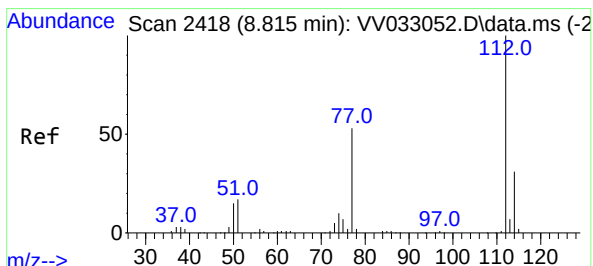
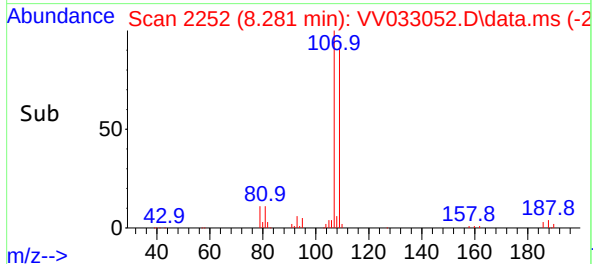
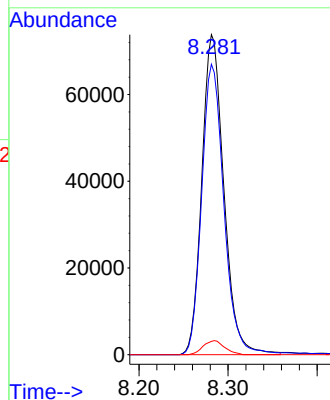
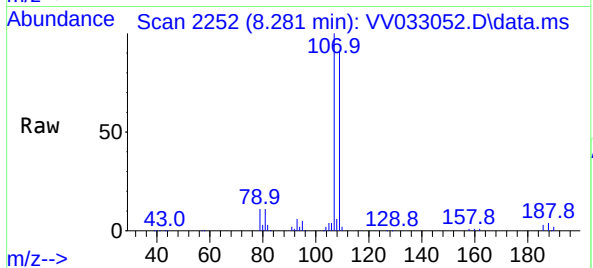




#50  
1,2-Dibromoethane  
Concen: 48.824 ug/L  
RT: 8.281 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

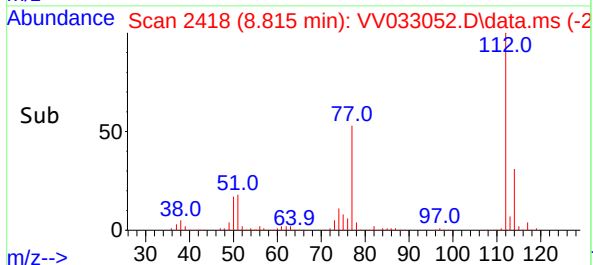
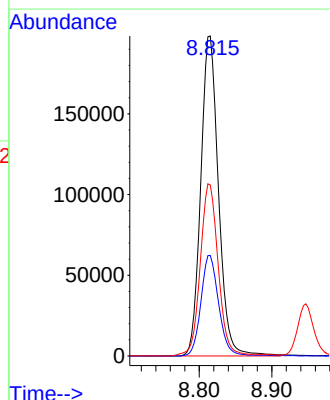
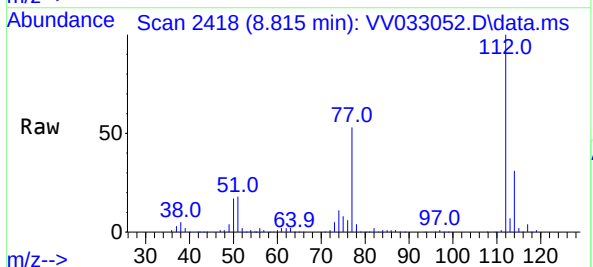
Instrument :  
MSVOA\_V  
ClientSampleId :

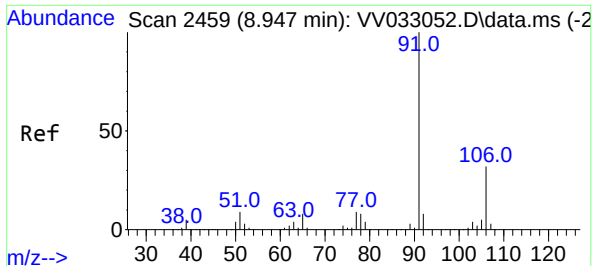
Tgt Ion:107 Resp: 126838  
Ion Ratio Lower Upper  
107 100  
109 90.8 67.3 125.1  
188 4.1 3.3 4.9



#51  
Chlorobenzene  
Concen: 47.774 ug/L  
RT: 8.815 min Scan# 2418  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion:112 Resp: 337072  
Ion Ratio Lower Upper  
112 100  
114 31.4 22.3 41.5  
77 53.4 43.0 64.6





#52

Ethylbenzene

Concen: 48.951 ug/L

RT: 8.947 min Scan# 2459

Delta R.T. 0.003 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

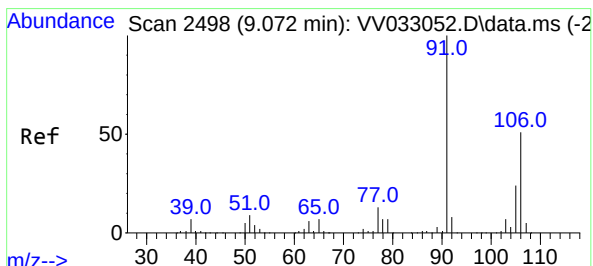
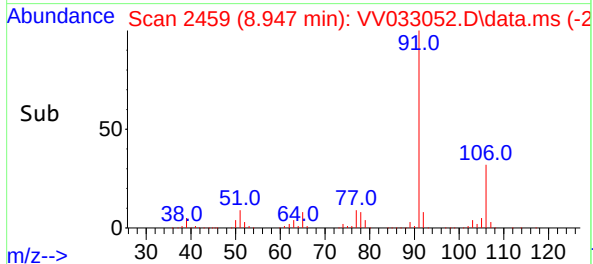
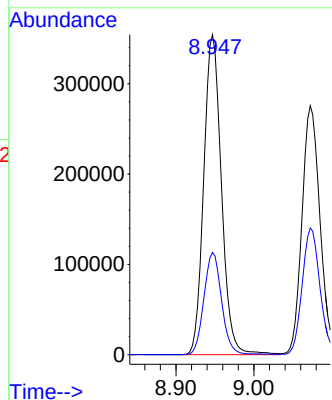
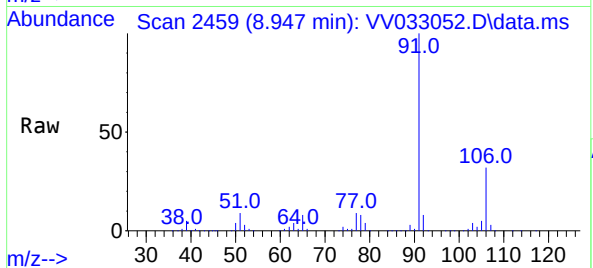
ClientSampleId :

Tgt Ion: 91 Resp: 558732

Ion Ratio Lower Upper

91 100

106 32.0 22.1 41.1



#53

m,p-Xylene

Concen: 49.565 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.000 min

Lab File: VV033052.D

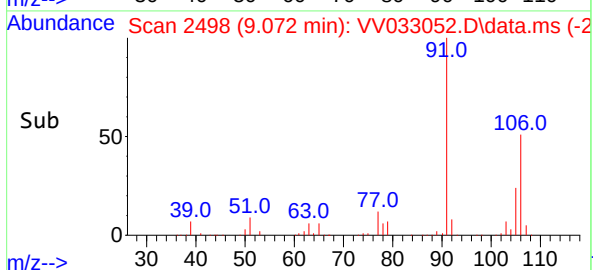
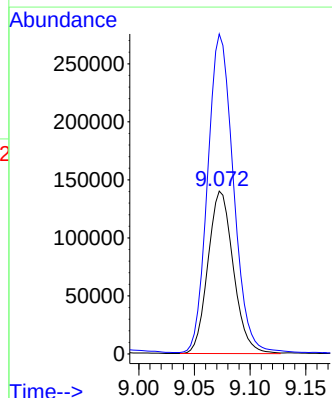
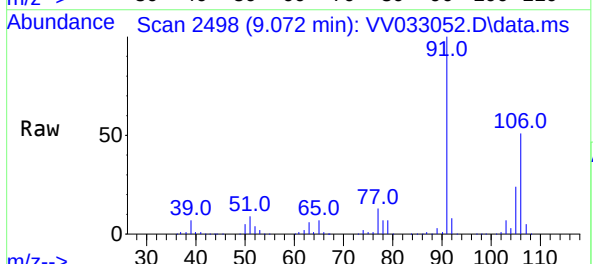
Acq: 22 Nov 2023 09:19

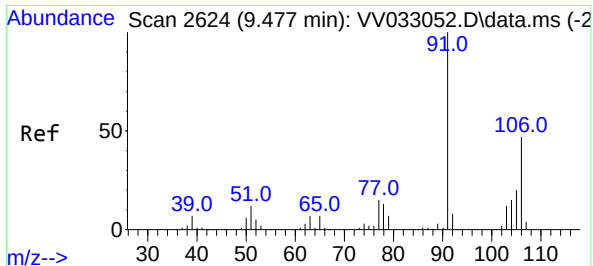
Tgt Ion: 106 Resp: 222276

Ion Ratio Lower Upper

106 100

91 196.4 138.6 257.4

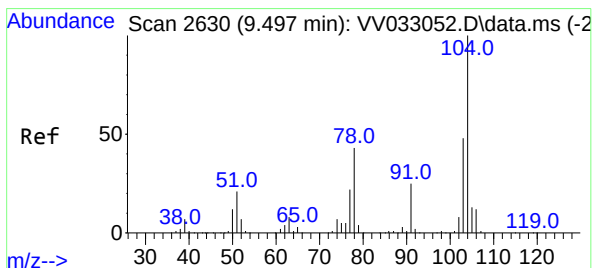
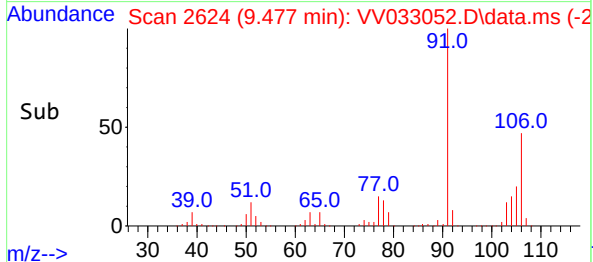
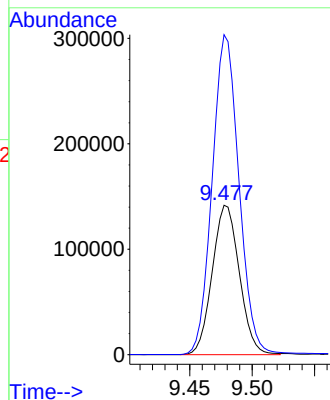
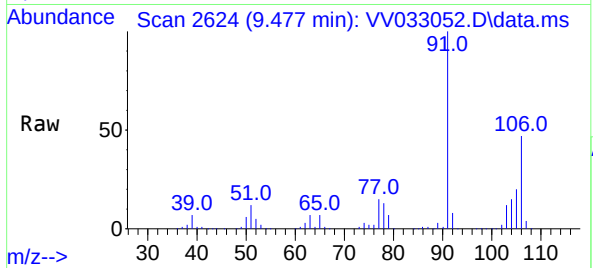




#54  
o-Xylene  
Concen: 49.767 ug/L  
RT: 9.477 min Scan# 2624  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

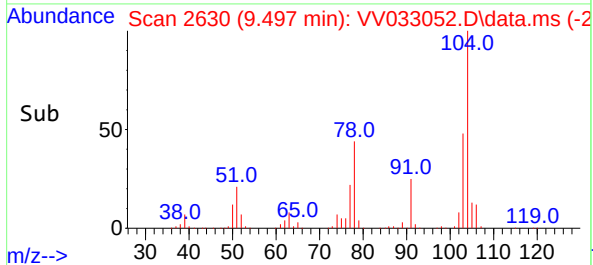
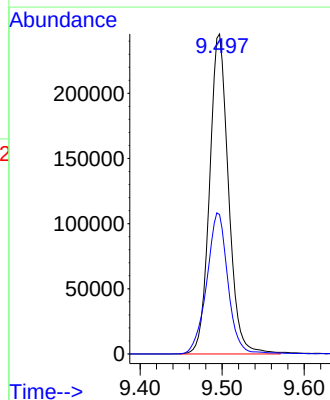
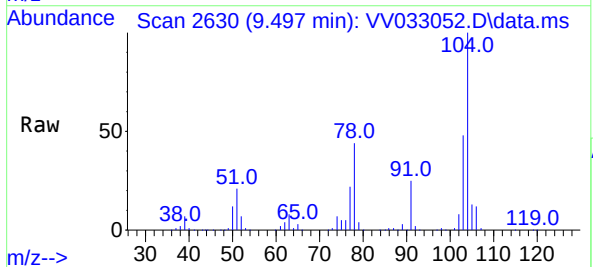
Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:106 Resp: 214834  
Ion Ratio Lower Upper  
106 100  
91 214.0 147.3 273.5

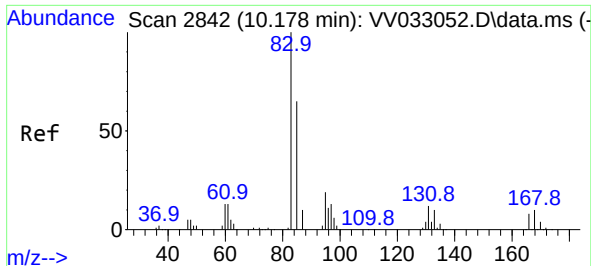


#55  
Styrene  
Concen: 51.213 ug/L  
RT: 9.497 min Scan# 2630  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion:104 Resp: 394364  
Ion Ratio Lower Upper  
104 100  
78 43.6 30.2 56.2



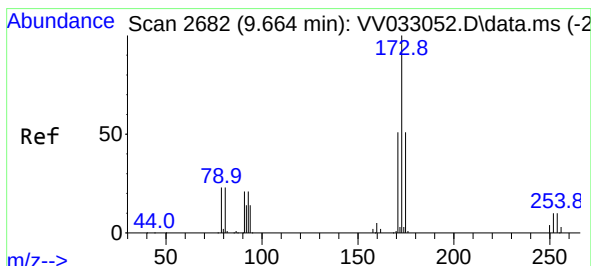
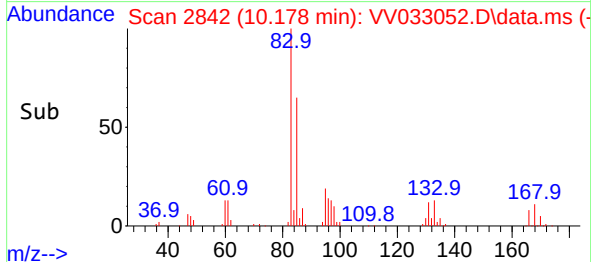
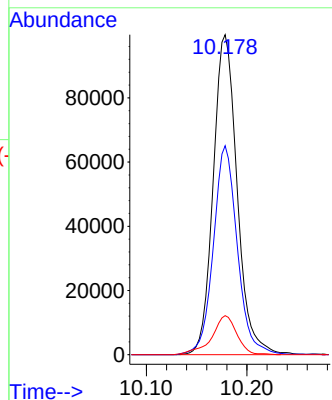
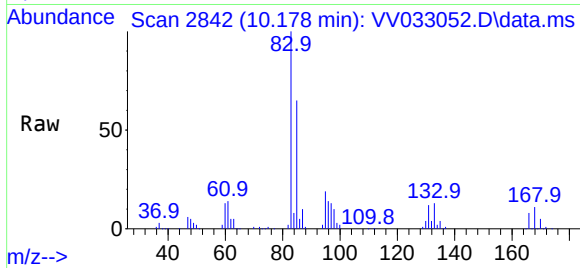




#57  
1,1,2,2-Tetrachloroethane  
Concen: 47.015 ug/L  
RT: 10.178 min Scan# 2842  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

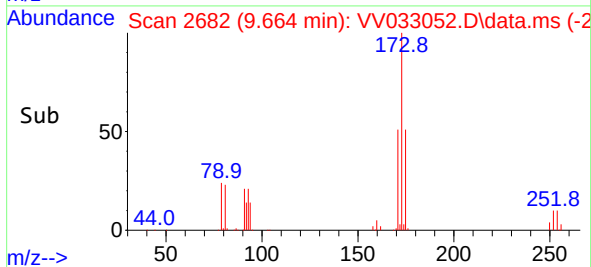
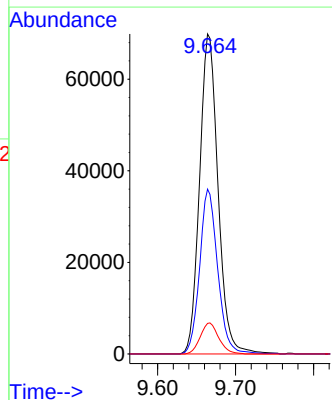
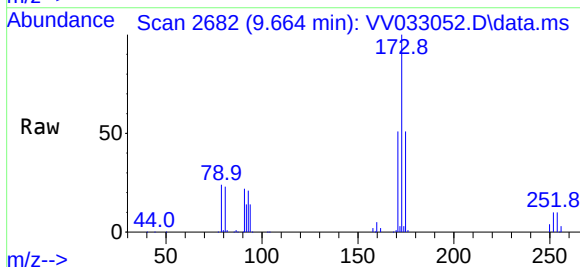
Instrument :  
MSVOA\_V  
ClientSampleId :

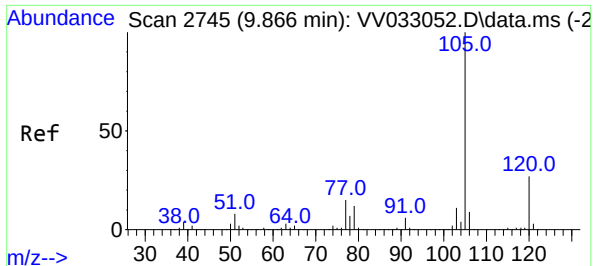
Tgt Ion: 83 Resp: 164742  
Ion Ratio Lower Upper  
83 100  
85 65.3 45.8 85.2  
131 12.2 9.4 14.0



#59  
Bromoform  
Concen: 48.771 ug/L  
RT: 9.664 min Scan# 2682  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 173 Resp: 114810  
Ion Ratio Lower Upper  
173 100  
175 50.3 38.7 58.1  
254 9.8 7.9 11.9

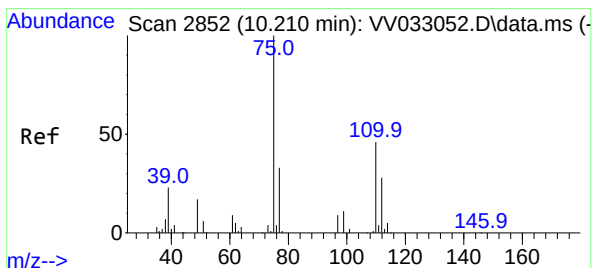
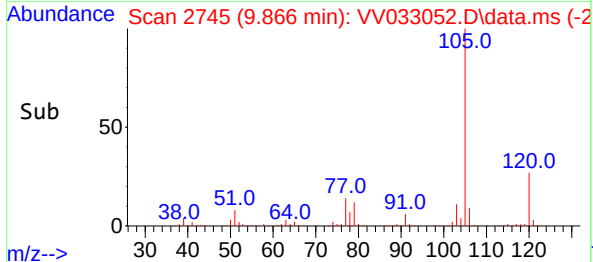
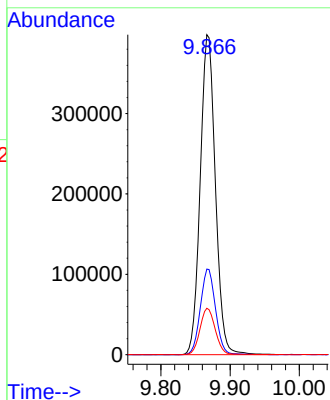
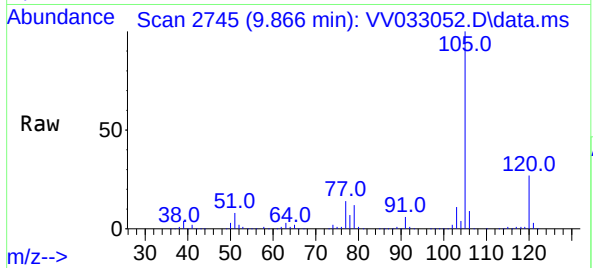




#60  
Isopropylbenzene  
Concen: 49.394 ug/L  
RT: 9.866 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

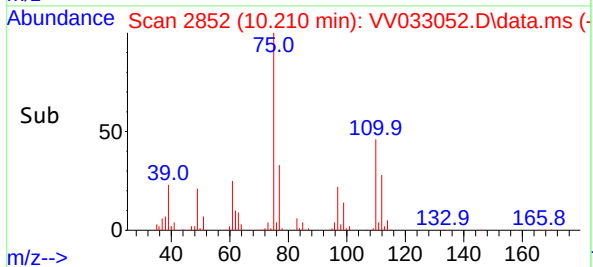
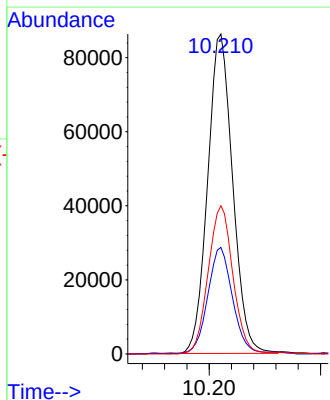
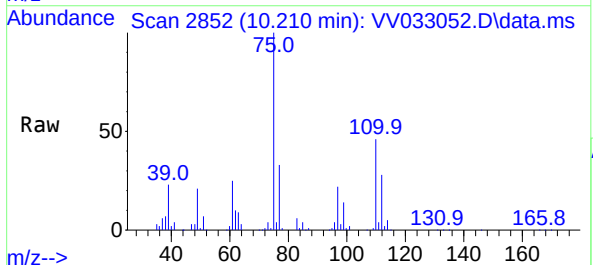
Instrument :  
MSVOA\_V  
ClientSampleId :

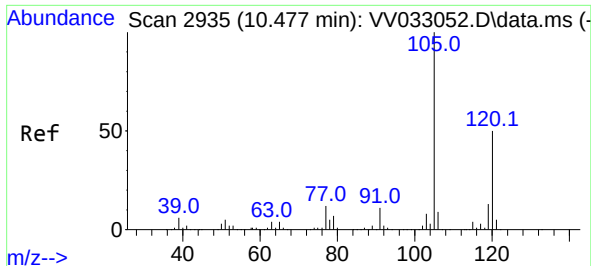
Tgt Ion:105 Resp: 604843  
Ion Ratio Lower Upper  
105 100  
120 26.7 21.4 32.2  
77 14.6 12.2 18.2



#61  
1,2,3-Trichloropropane  
Concen: 46.137 ug/L  
RT: 10.210 min Scan# 2852  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion: 75 Resp: 134442  
Ion Ratio Lower Upper  
75 100  
77 32.8 26.2 39.2  
110 45.9 36.2 54.4





#62

1,3,5-Trimethylbenzene

Concen: 48.753 ug/L

RT: 10.477 min Scan# 2935

Delta R.T. 0.000 min

Lab File: VV033052.D

Acq: 22 Nov 2023 09:19

Instrument :

MSVOA\_V

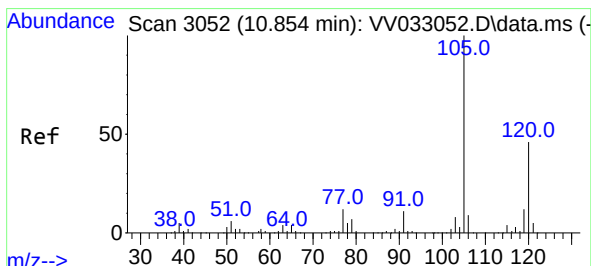
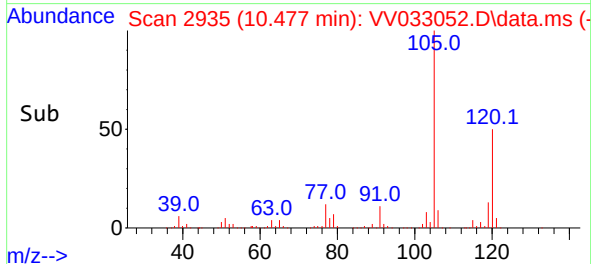
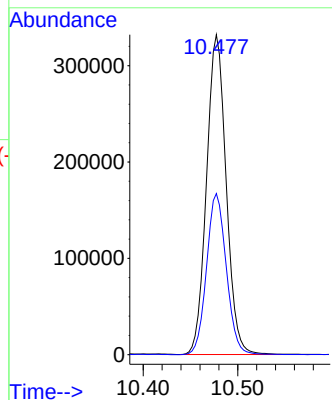
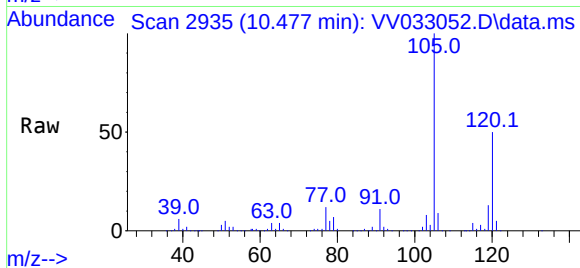
ClientSampleId :

Tgt Ion:105 Resp: 478977

Ion Ratio Lower Upper

105 100

120 50.7 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 49.429 ug/L

RT: 10.854 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VV033052.D

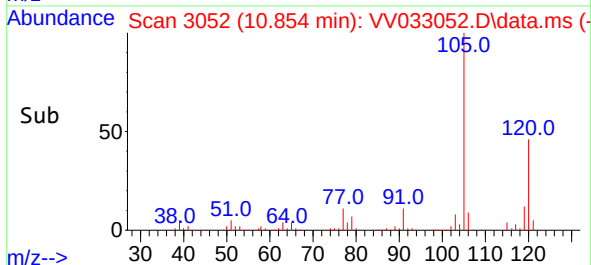
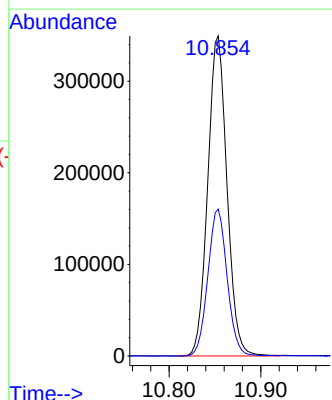
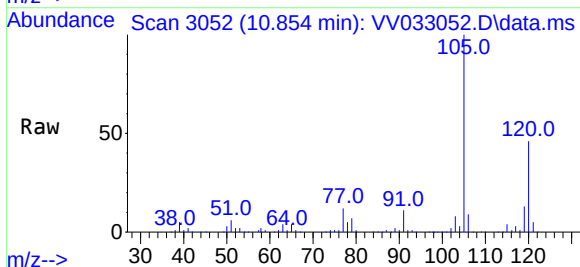
Acq: 22 Nov 2023 09:19

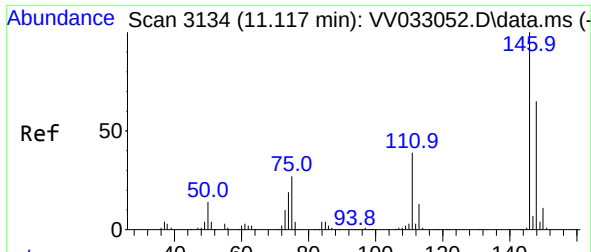
Tgt Ion:105 Resp: 508741

Ion Ratio Lower Upper

105 100

120 46.0 36.7 55.1

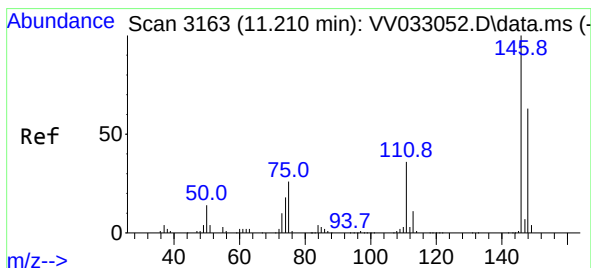
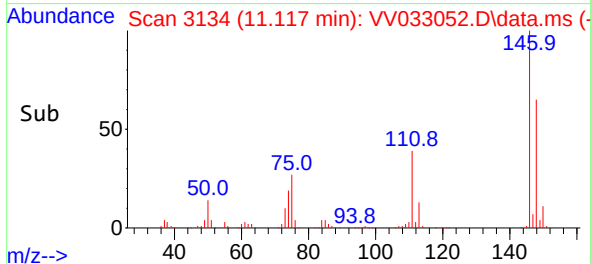
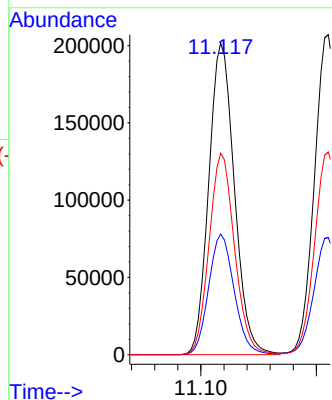
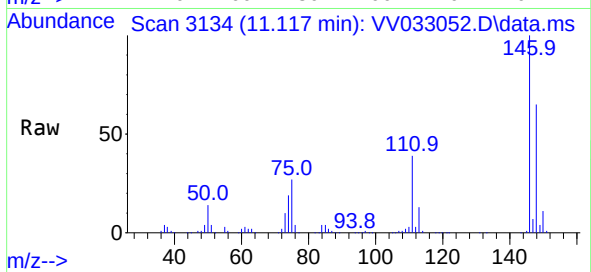




#64  
1,3-Dichlorobenzene  
Concen: 47.351 ug/L  
RT: 11.117 min Scan# 3134  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

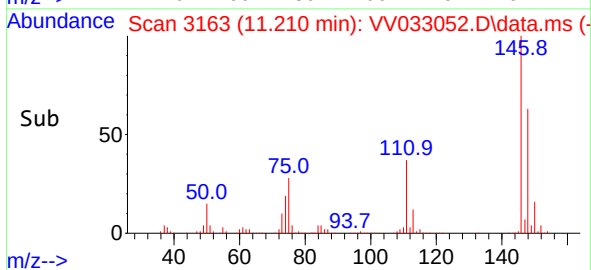
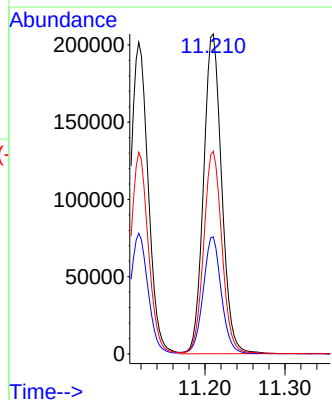
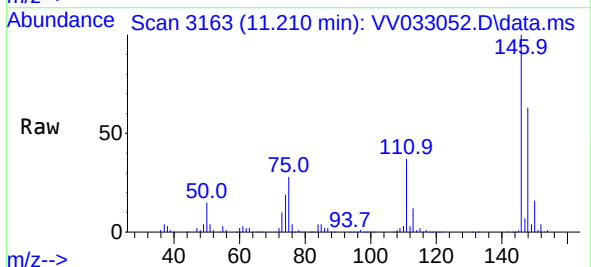
Instrument :  
MSVOA\_V  
ClientSampleId :

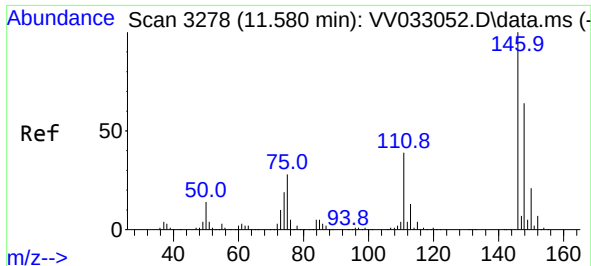
Tgt Ion:146 Resp: 310647  
Ion Ratio Lower Upper  
146 100  
111 38.7 26.5 49.1  
148 64.7 44.5 82.7



#65  
1,4-Dichlorobenzene  
Concen: 46.887 ug/L  
RT: 11.210 min Scan# 3163  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion:146 Resp: 326965  
Ion Ratio Lower Upper  
146 100  
111 36.6 25.1 46.7  
148 63.3 44.4 82.5

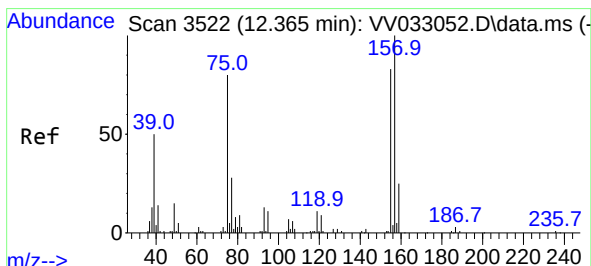
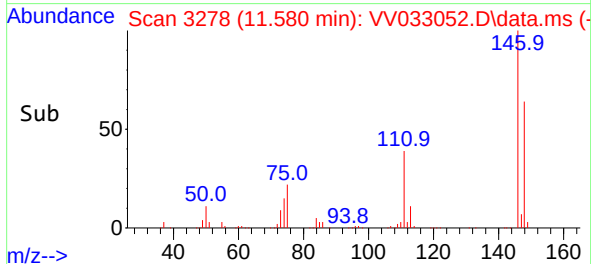
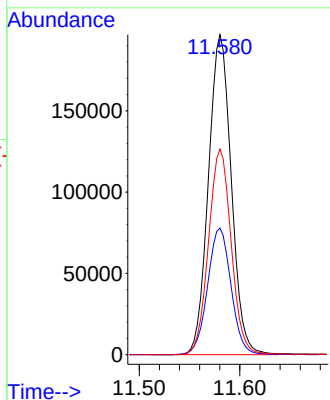
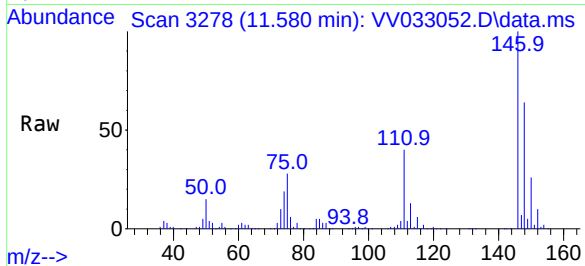




#67  
1,2-Dichlorobenzene  
Concen: 47.240 ug/L  
RT: 11.580 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

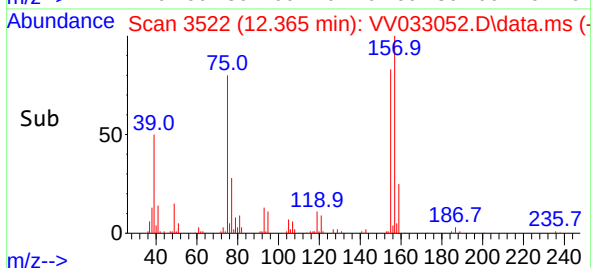
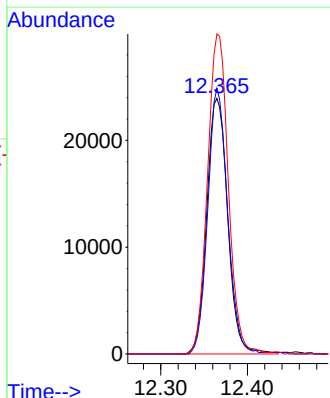
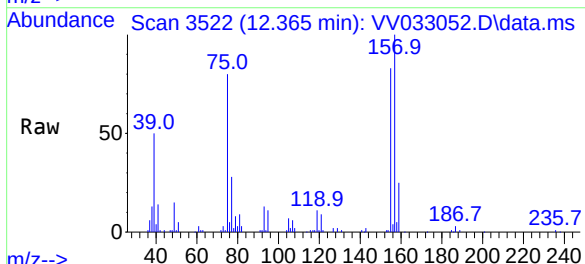
Instrument :  
MSVOA\_V  
ClientSampleId :

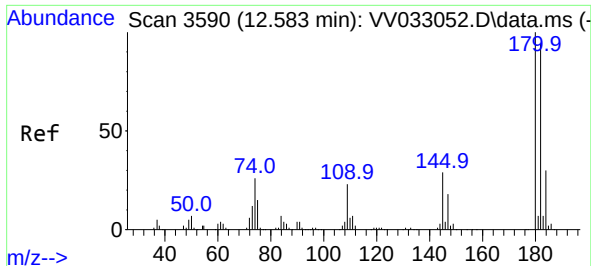
Tgt Ion:146 Resp: 310982  
Ion Ratio Lower Upper  
146 100  
111 39.5 31.8 47.6  
148 64.2 51.4 77.2



#68  
1,2-Dibromo-3-chloropropane  
Concen: 47.440 ug/L  
RT: 12.365 min Scan# 3522  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

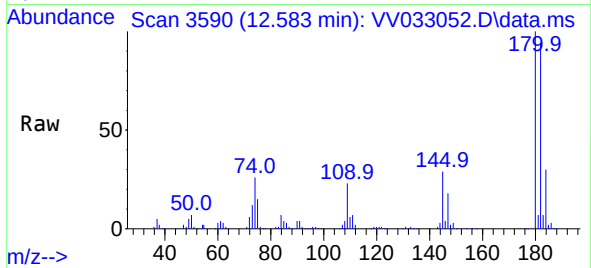
Tgt Ion: 75 Resp: 40215  
Ion Ratio Lower Upper  
75 100  
155 104.0 79.8 119.8  
157 125.2 102.5 153.7



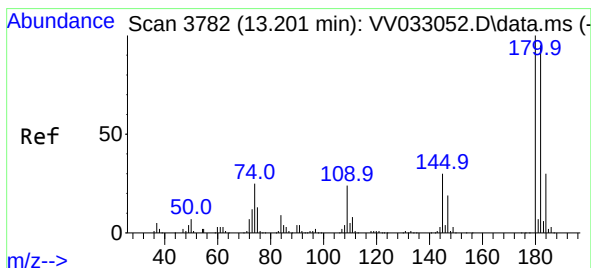
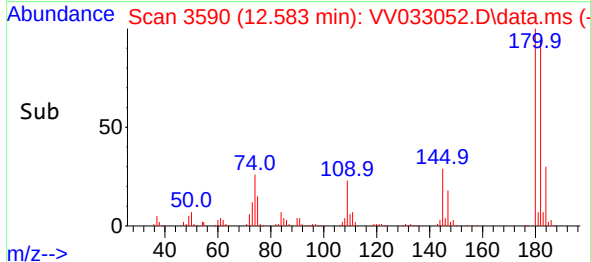
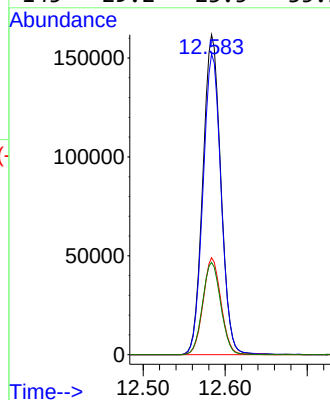


#69  
1,3,5-Trichlorobenzene  
Concen: 48.235 ug/L  
RT: 12.583 min Scan# 3590  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Instrument :  
MSVOA\_V  
ClientSampleId :

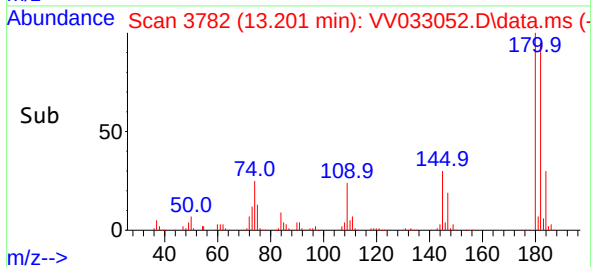
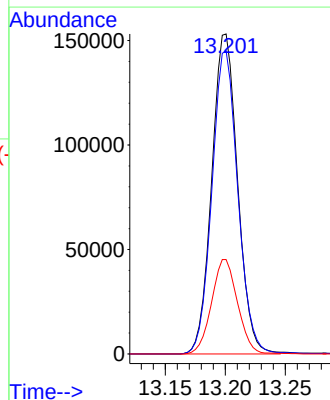
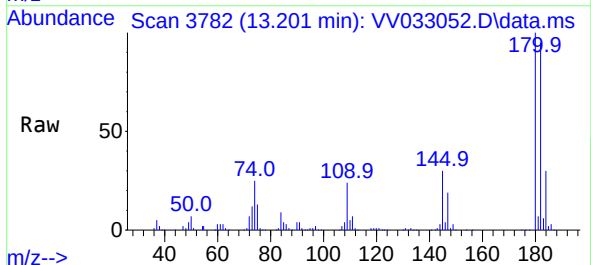


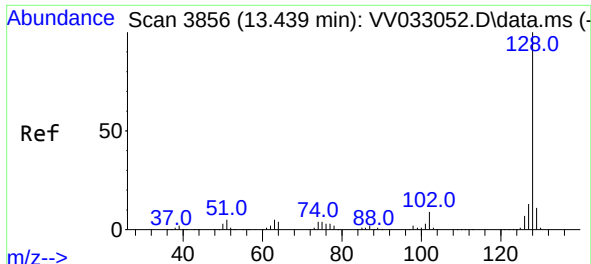
Tgt Ion:180 Resp: 246022  
Ion Ratio Lower Upper  
180 100  
182 94.6 76.6 115.0  
184 30.1 24.5 36.7  
145 29.2 23.5 35.3



#70  
1,2,4-trichlorobenzene  
Concen: 49.041 ug/L  
RT: 13.201 min Scan# 3782  
Delta R.T. 0.003 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion:180 Resp: 229232  
Ion Ratio Lower Upper  
180 100  
182 95.2 76.8 115.2  
145 29.8 23.2 34.8

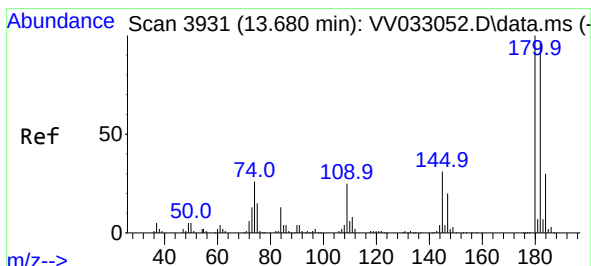
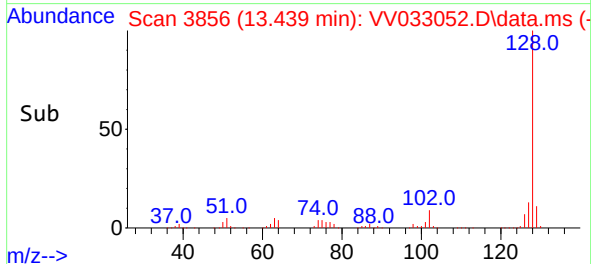
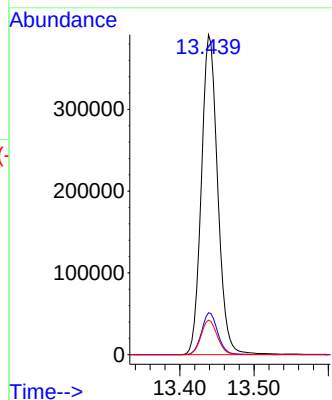
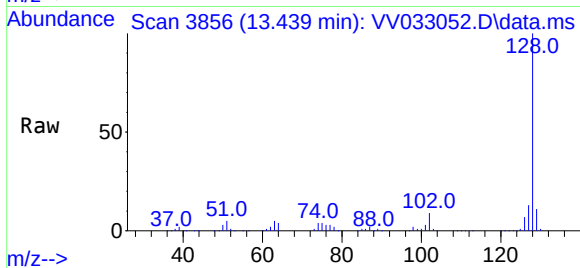




#71  
Naphthalene  
Concen: 51.677 ug/L  
RT: 13.439 min Scan# 3856  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion:128 Resp: 597454  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.2  
129 10.8 8.7 13.1



#72  
1,2,3-Trichlorobenzene  
Concen: 51.141 ug/L  
RT: 13.680 min Scan# 3931  
Delta R.T. 0.000 min  
Lab File: VV033052.D  
Acq: 22 Nov 2023 09:19

Tgt Ion:180 Resp: 231765  
Ion Ratio Lower Upper  
180 100  
182 95.9 76.6 114.8  
145 31.5 25.5 38.3

