

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW022724\  
 Data File : VW034456.D  
 Acq On : 27 Feb 2024 17:58  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Feb 28 03:59:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR022624WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Feb 28 03:52:36 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.535  | 114   | 146663   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.786  | 117   | 142209   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.185 | 152   | 73532    | 5.000    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.278  | 65    | 34160    | 4.012    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 80.200%  |
| 7) Chloroethane-d5            | 1.532  | 69    | 31473    | 4.186    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 83.800%  |
| 11) 1,1-Dichloroethene-d2     | 2.056  | 65    | 16297    | 4.112    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 82.200%  |
| 20) 2-Butanone-d5             | 3.812  | 46    | 128292   | 57.635   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 115.280% |
| 24) Chloroform-d              | 4.253  | 84    | 80338    | 4.700    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 94.000%  |
| 26) 1,2-Dichloroethane-d4     | 4.944  | 65    | 43906    | 5.047    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 101.000% |
| 32) Benzene-d6                | 4.963  | 84    | 139811   | 4.370    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 87.400%  |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 43234    | 4.526    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 90.600%  |
| 41) Toluene-d8                | 7.243  | 98    | 125470   | 4.374    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 87.400%  |
| 43) trans-1,3-Dichloroprop... | 7.558  | 79    | 17799    | 5.002    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 100.000% |
| 46) 2-Hexanone-d5             | 8.027  | 63    | 109490   | 54.414   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 108.820% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.153 | 84    | 37929    | 5.017    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 100.400% |
| 66) 1,2-Dichlorobenzene-d4    | 11.561 | 152   | 51453    | 4.606    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 92.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.105  | 85    | 46757    | 5.051    | ug/L   | 97       |
| 3) Chloromethane              | 1.214  | 50    | 53858    | 4.902    | ug/L   | 99       |
| 5) Vinyl chloride             | 1.282  | 62    | 54729    | 5.038    | ug/L   | 100      |
| 6) Bromomethane               | 1.487  | 94    | 29065    | 4.713    | ug/L   | 98       |
| 8) Chloroethane               | 1.548  | 64    | 35085    | 4.565    | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.712  | 101   | 88308    | 4.993    | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.069  | 101   | 48027    | 5.035    | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.069  | 96    | 45643    | 4.969    | ug/L   | 86       |
| 13) Acetone                   | 2.143  | 43    | 100807   | 44.526   | ug/L   | 96       |
| 14) Carbon disulfide          | 2.240  | 76    | 127004   | 5.161    | ug/L   | 98       |
| 15) Methyl Acetate            | 2.391  | 43    | 20915    | 5.386    | ug/L   | 96       |
| 16) Methylene chloride        | 2.446  | 84    | 52664    | 5.020    | ug/L   | 97       |
| 17) Methyl tert-butyl Ether   | 2.706  | 73    | 128965   | 5.401    | ug/L   | 99       |
| 18) trans-1,2-Dichloroethene  | 2.696  | 96    | 48181    | 5.158    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.111  | 63    | 94623    | 5.264    | ug/L   | 100      |
| 21) 2-Butanone                | 3.892  | 43    | 135735   | 54.612   | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 3.815  | 96    | 53706    | 5.229    | ug/L   | 99       |
| 23) Bromochloromethane        | 4.153  | 128   | 23261    | 5.433    | ug/L   | 97       |
| 25) Chloroform                | 4.278  | 83    | 97941    | 5.245    | ug/L   | 93       |

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 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Feb 28 03:59:23 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR022624WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Wed Feb 28 03:52:36 2024  
 Response via : Initial Calibration

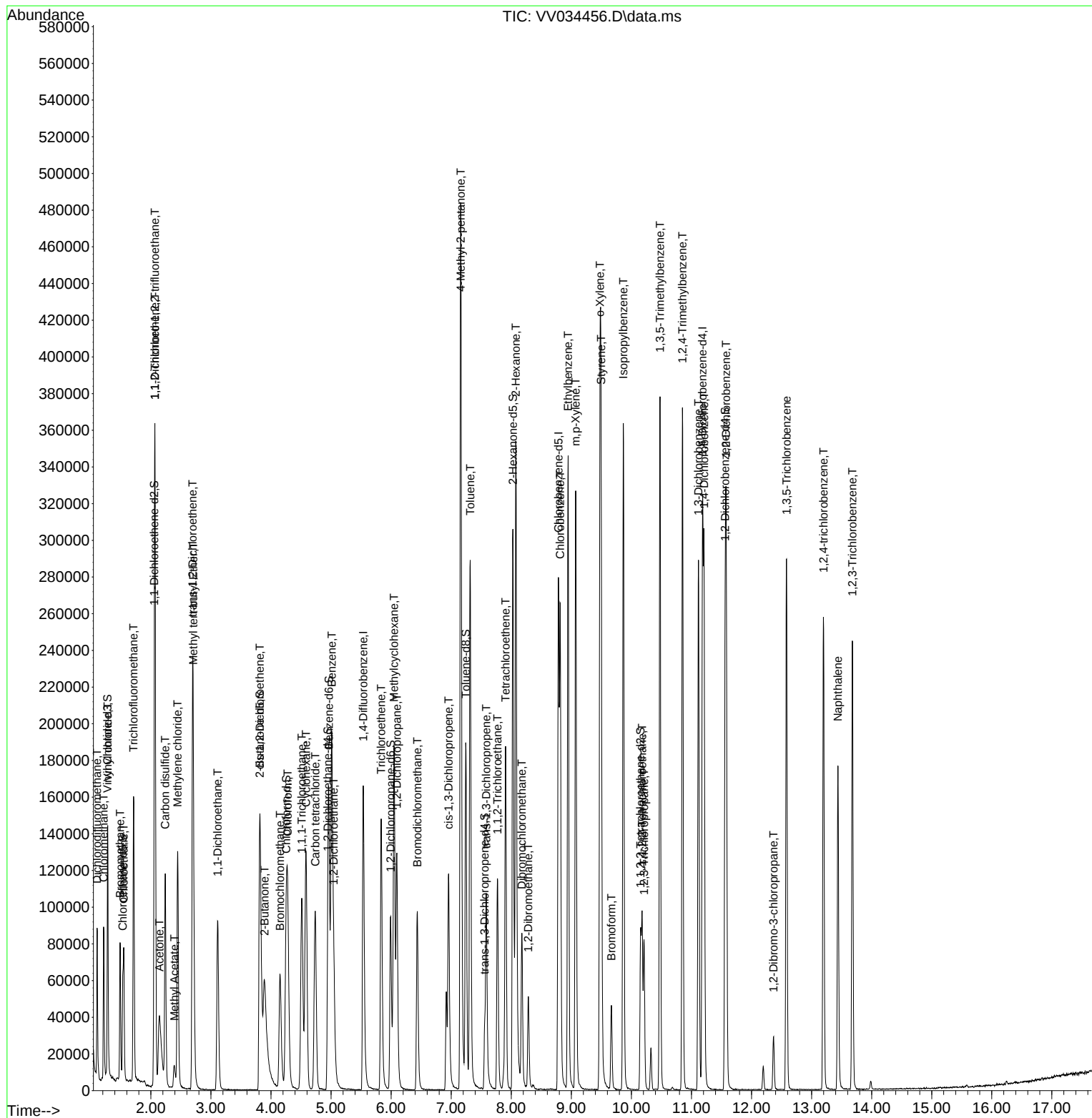
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.043  | 62   | 62946    | 5.524  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane     | 4.513  | 97   | 87311    | 4.908  | ug/L  | 99       |
| 30) Cyclohexane               | 4.584  | 56   | 71661    | 4.683  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 4.738  | 117  | 75308    | 4.878  | ug/L  | 98       |
| 33) Benzene                   | 5.011  | 78   | 193024   | 4.904  | ug/L  | 100      |
| 34) Trichloroethene           | 5.834  | 95   | 52589    | 5.117  | ug/L  | 100      |
| 35) Methylcyclohexane         | 6.050  | 83   | 78007    | 4.834  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.095  | 63   | 49666    | 5.105  | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.436  | 83   | 65868    | 4.968  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 6.957  | 75   | 73192    | 5.428  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 336177   | 55.856 | ug/L  | 99       |
| 42) Toluene                   | 7.317  | 91   | 211595   | 5.117  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.584  | 75   | 62224    | 5.683  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 7.770  | 97   | 35237    | 5.325  | ug/L  | 99       |
| 47) Tetrachloroethene         | 7.905  | 164  | 40156    | 4.980  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.075  | 43   | 237385   | 55.376 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.175  | 129  | 40467    | 5.252  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.284  | 107  | 32900    | 5.315  | ug/L  | 99       |
| 51) Chlorobenzene             | 8.815  | 112  | 136299   | 5.074  | ug/L  | 99       |
| 52) Ethylbenzene              | 8.947  | 91   | 236909   | 5.087  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.072  | 106  | 86637    | 5.005  | ug/L  | 98       |
| 54) o-Xylene                  | 9.477  | 106  | 86260    | 4.992  | ug/L  | 96       |
| 55) Styrene                   | 9.497  | 104  | 146227   | 5.262  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.178 | 83   | 41645    | 5.260  | ug/L  | 98       |
| 59) Bromoform                 | 9.667  | 173  | 19853    | 5.288  | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.866  | 105  | 225877   | 5.132  | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.210 | 75   | 31290    | 5.515  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene    | 10.477 | 105  | 197329   | 5.137  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 196577   | 5.109  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.117 | 146  | 113143   | 5.292  | ug/L  | 96       |
| 65) 1,4-Dichlorobenzene       | 11.210 | 146  | 110376   | 5.202  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 104320   | 5.206  | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.368 | 75   | 7651     | 5.338  | ug/L  | 99       |
| 69) 1,3,5-Trichlorobenzene    | 12.583 | 180  | 83432    | 5.086  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.197 | 180  | 75089    | 5.244  | ug/L  | 97       |
| 71) Naphthalene               | 13.439 | 128  | 135106   | 5.522  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.680 | 180  | 67678    | 5.277  | ug/L  | 98       |

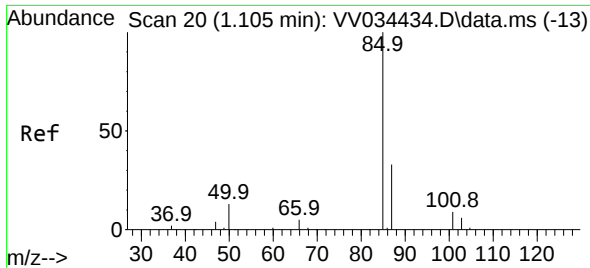
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VSTDCCC005EC  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Feb 28 03:59:23 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR022624WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Wed Feb 28 03:52:36 2024  
Response via : Initial Calibration

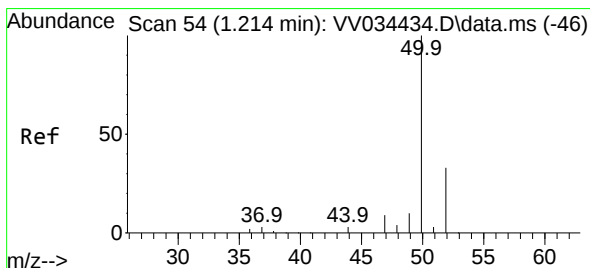
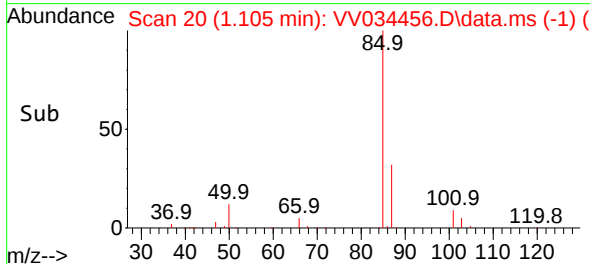
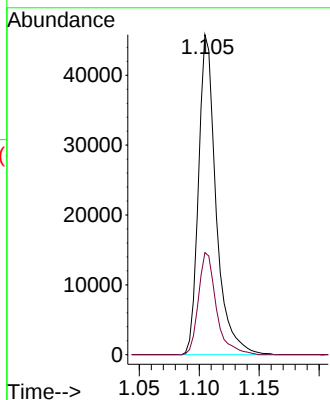
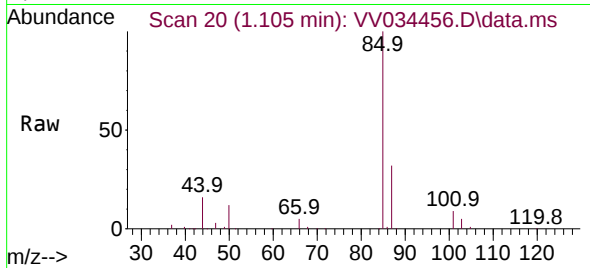




#2  
 Dichlorodifluoromethane  
 Concen: 5.051 ug/L  
 RT: 1.105 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

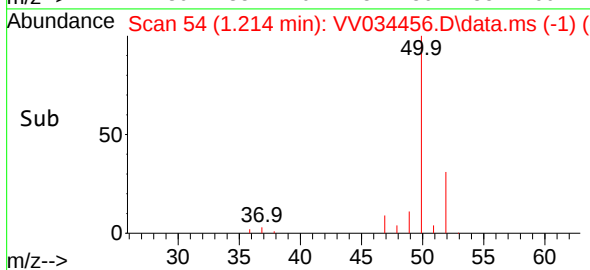
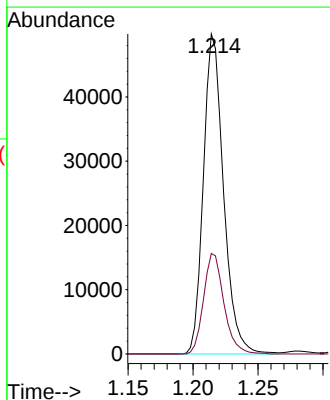
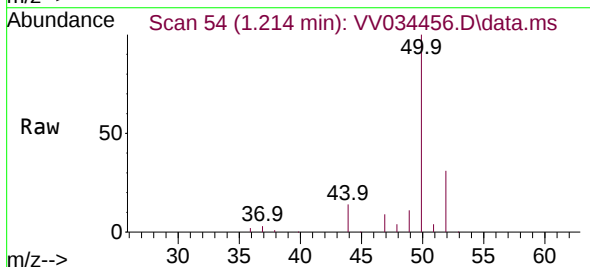
Instrument :  
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 ClientSampleId :

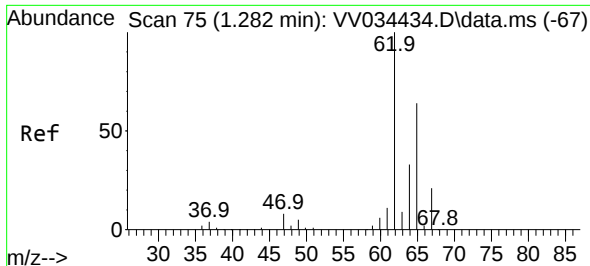
Tgt Ion: 85 Resp: 46757  
 Ion Ratio Lower Upper  
 85 100  
 87 32.5 24.9 37.3



#3  
 Chloromethane  
 Concen: 4.902 ug/L  
 RT: 1.214 min Scan# 54  
 Delta R.T. 0.000 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

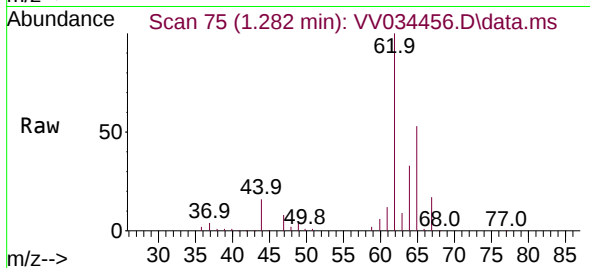
Tgt Ion: 50 Resp: 53858  
 Ion Ratio Lower Upper  
 50 100  
 52 31.4 22.3 41.3



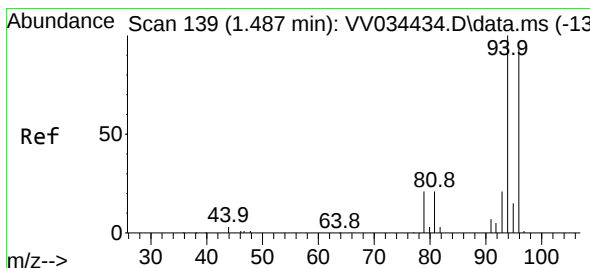
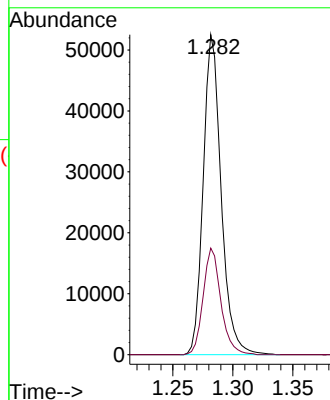
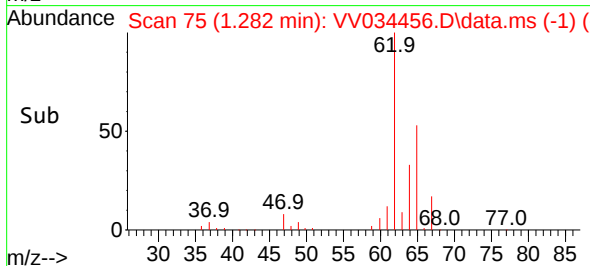


#5  
 Vinyl chloride  
 Concen: 5.038 ug/L  
 RT: 1.282 min Scan# 75  
 Delta R.T. 0.000 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

Instrument :  
 MSVOA\_V  
 ClientSampleId :

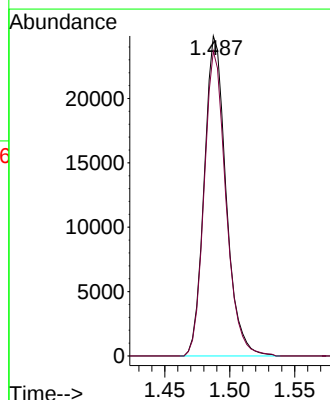
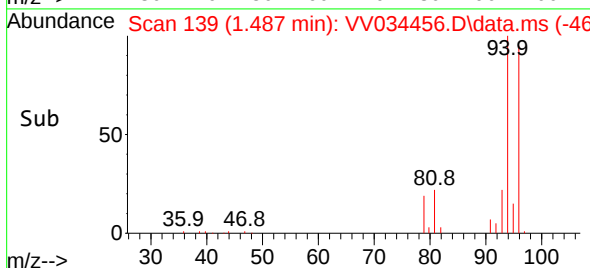
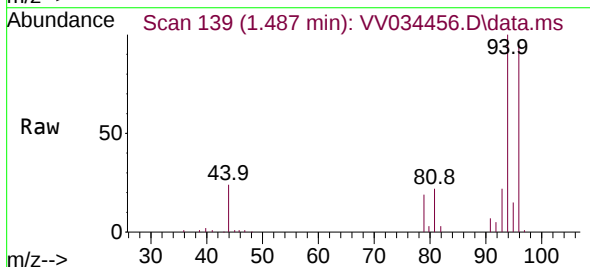


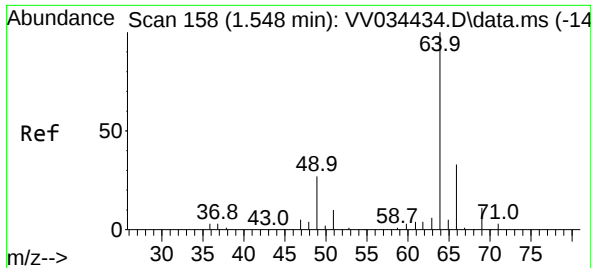
Tgt Ion: 62 Resp: 54729  
 Ion Ratio Lower Upper  
 62 100  
 64 33.3 23.4 43.4



#6  
 Bromomethane  
 Concen: 4.713 ug/L  
 RT: 1.487 min Scan# 139  
 Delta R.T. 0.000 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

Tgt Ion: 94 Resp: 29065  
 Ion Ratio Lower Upper  
 94 100  
 96 95.2 65.5 121.7

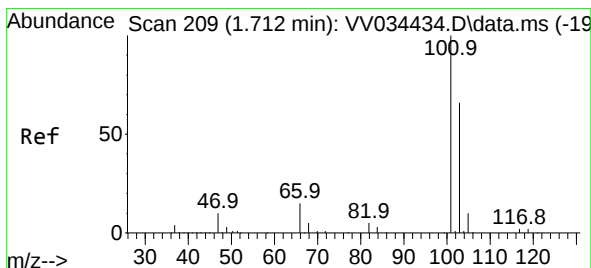
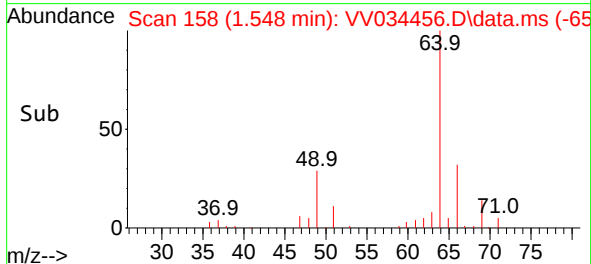
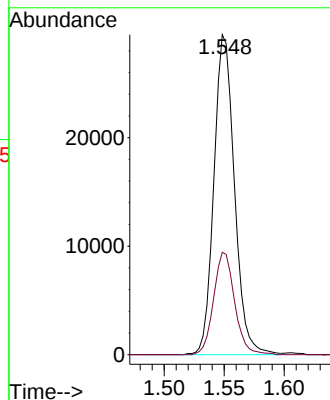
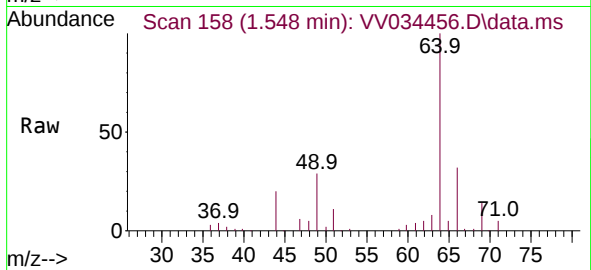




#8  
Chloroethane  
Concen: 4.565 ug/L  
RT: 1.548 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

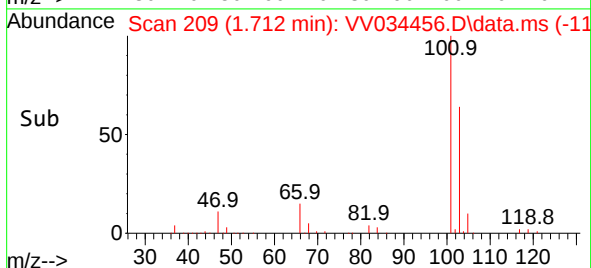
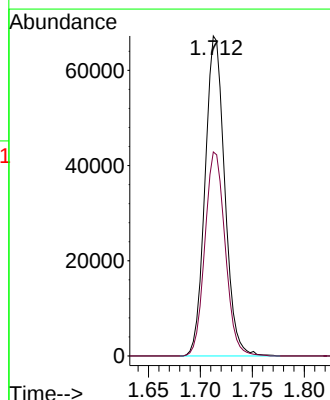
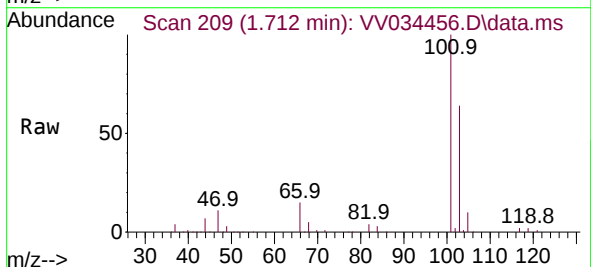
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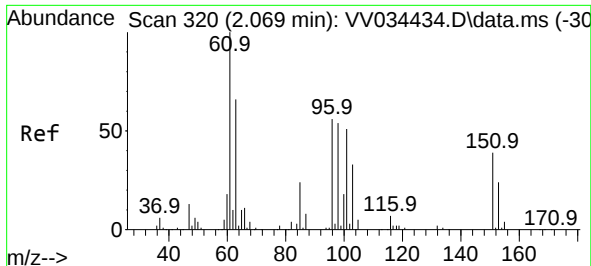
Tgt Ion: 64 Resp: 35085  
Ion Ratio Lower Upper  
64 100  
66 32.0 22.1 41.1



#9  
Trichlorofluoromethane  
Concen: 4.993 ug/L  
RT: 1.712 min Scan# 209  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion:101 Resp: 88308  
Ion Ratio Lower Upper  
101 100  
103 65.6 52.0 78.0

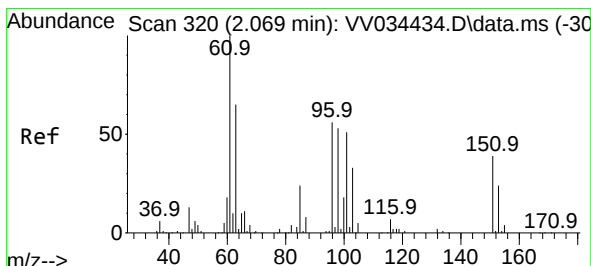
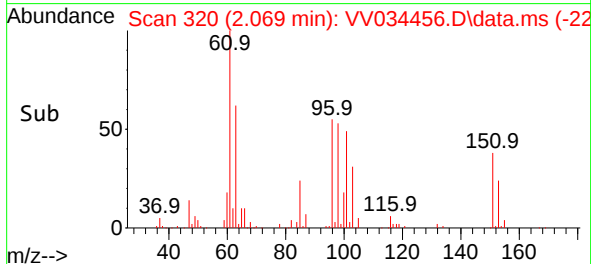
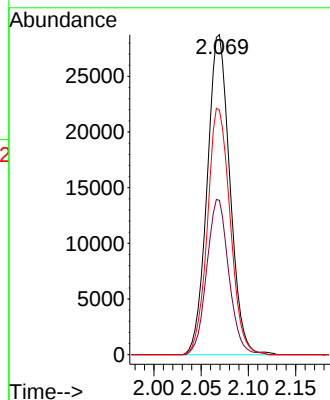
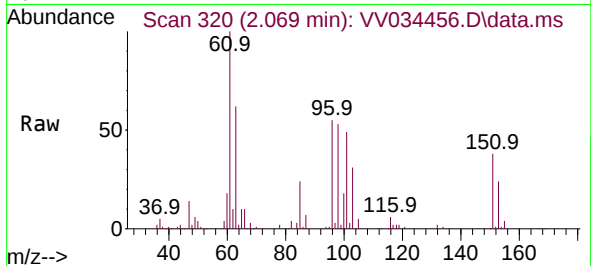




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 5.035 ug/L  
 RT: 2.069 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

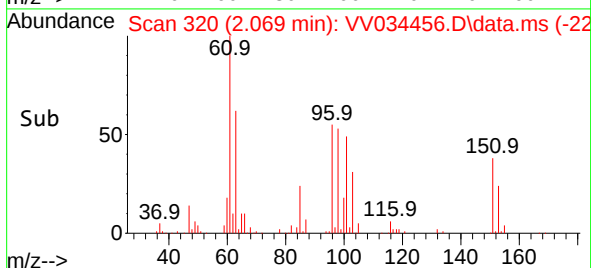
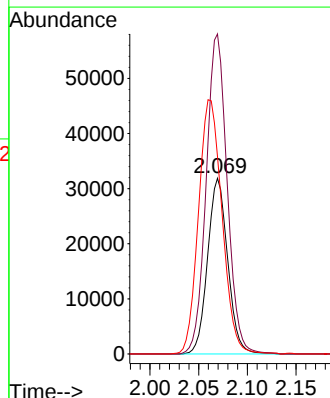
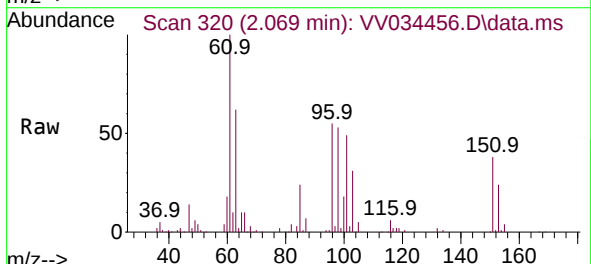
Instrument :  
 MSVOA\_V  
 ClientSampleId :

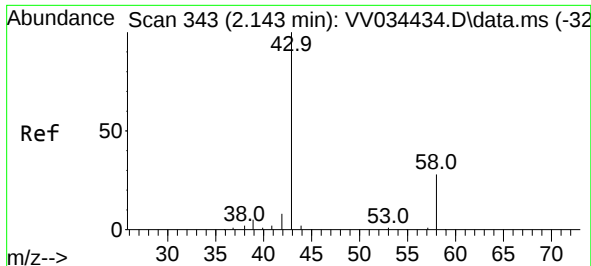
Tgt Ion:101 Resp: 48027  
 Ion Ratio Lower Upper  
 101 100  
 85 47.1 37.9 56.9  
 151 77.1 61.8 92.6



#12  
 1,1-Dichloroethene  
 Concen: 4.969 ug/L  
 RT: 2.069 min Scan# 320  
 Delta R.T. 0.000 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

Tgt Ion: 96 Resp: 45643  
 Ion Ratio Lower Upper  
 96 100  
 61 182.2 131.3 243.8  
 63 112.5 102.8 191.0





#13

Acetone

Concen: 44.526 ug/L

RT: 2.143 min Scan# 343

Delta R.T. 0.000 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

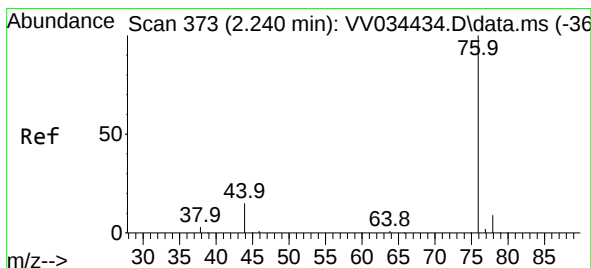
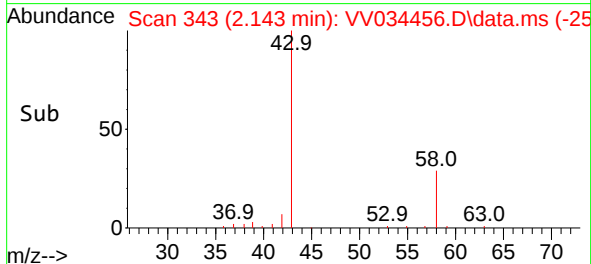
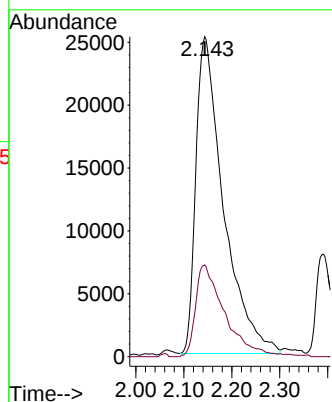
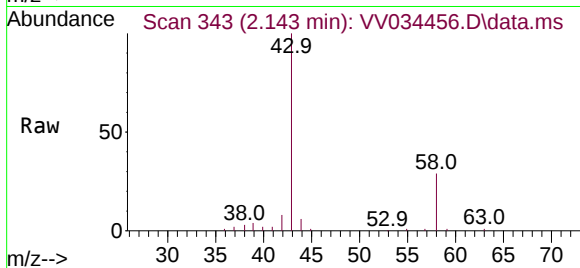
ClientSampleId :

Tgt Ion: 43 Resp: 100807

Ion Ratio Lower Upper

43 100

58 30.1 0.0 56.2



#14

Carbon disulfide

Concen: 5.161 ug/L

RT: 2.240 min Scan# 373

Delta R.T. 0.000 min

Lab File: VV034456.D

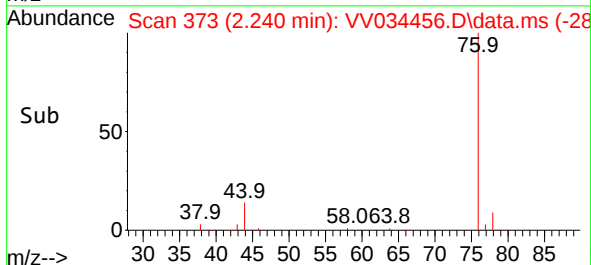
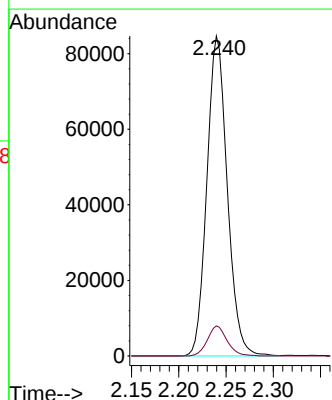
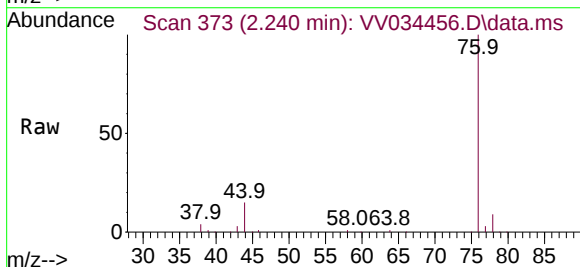
Acq: 27 Feb 2024 17:58

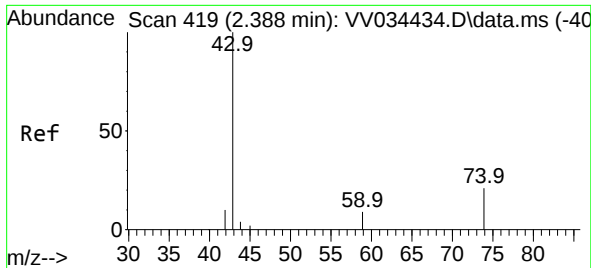
Tgt Ion: 76 Resp: 127004

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.4

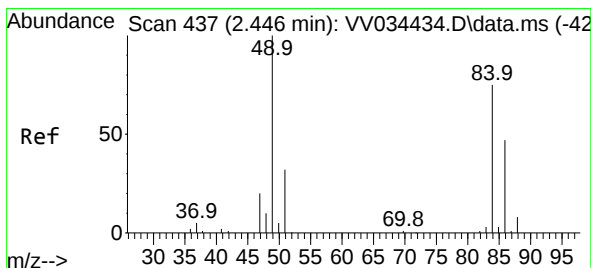
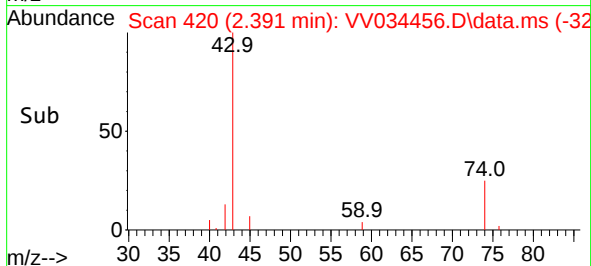
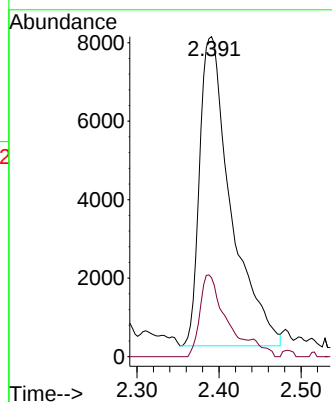
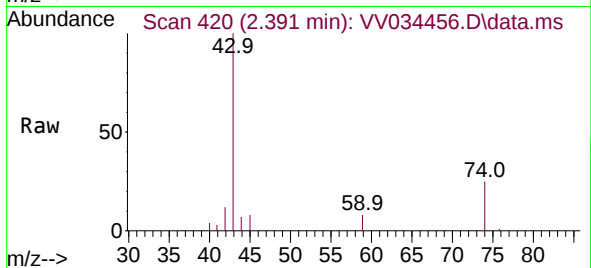




#15  
Methyl Acetate  
Concen: 5.386 ug/L  
RT: 2.391 min Scan# 419  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

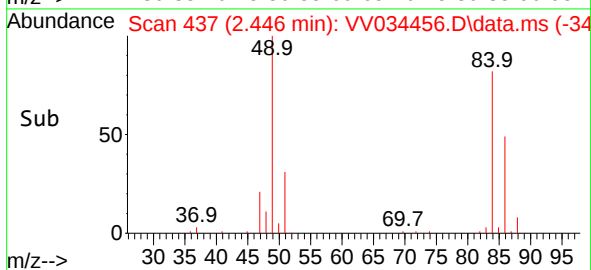
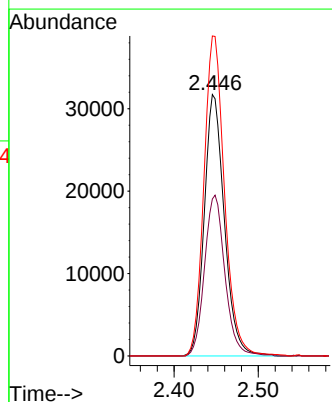
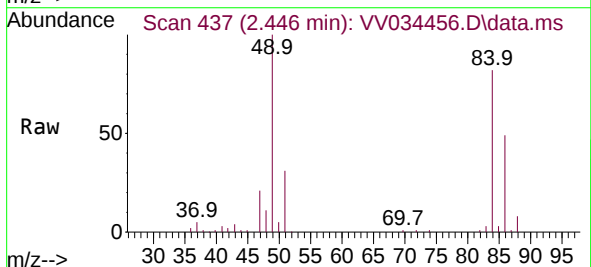
Instrument :  
MSVOA\_V  
ClientSampleId :

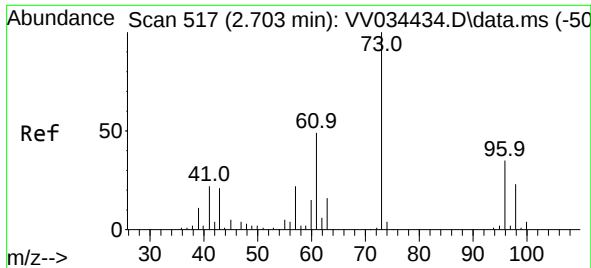
Tgt Ion: 43 Resp: 20915  
Ion Ratio Lower Upper  
43 100  
74 21.3 18.6 28.0



#16  
Methylene chloride  
Concen: 5.020 ug/L  
RT: 2.446 min Scan# 437  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

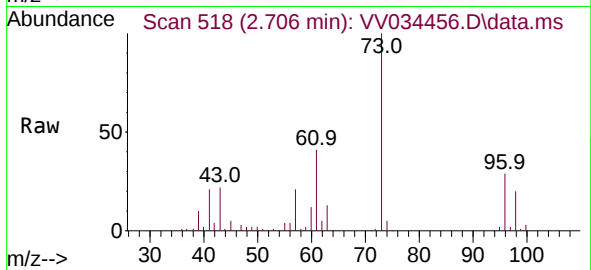
Tgt Ion: 84 Resp: 52664  
Ion Ratio Lower Upper  
84 100  
86 60.0 43.8 81.4  
49 122.4 87.6 162.8



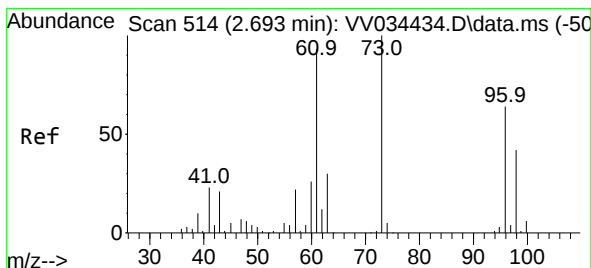
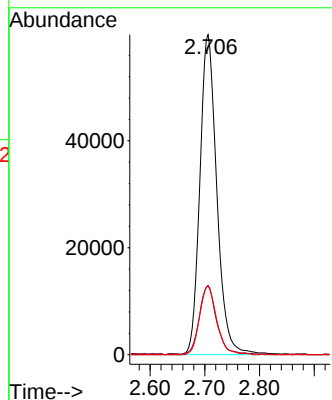
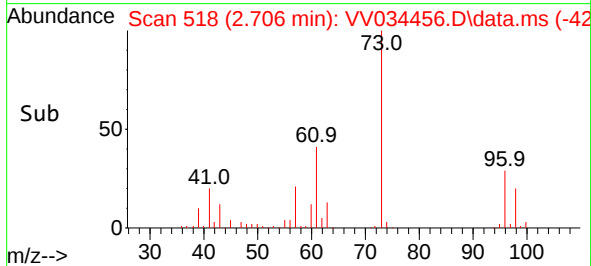


#17  
Methyl tert-butyl Ether  
Concen: 5.401 ug/L  
RT: 2.706 min Scan# 517  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Instrument :  
MSVOA\_V  
ClientSampleId :

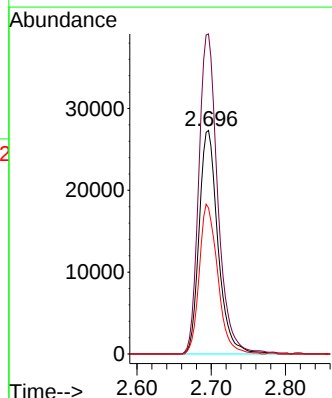
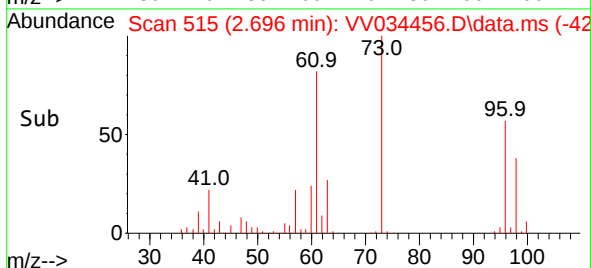
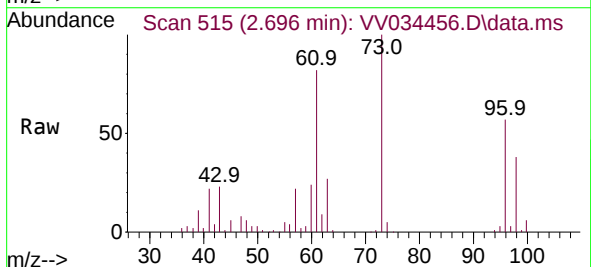


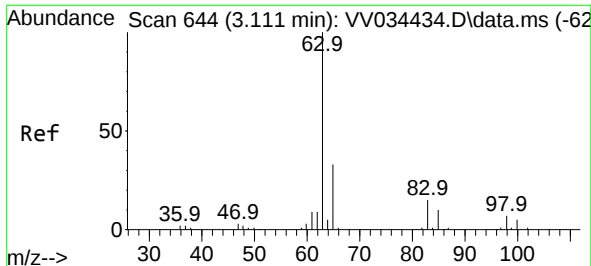
Tgt Ion: 73 Resp: 128965  
Ion Ratio Lower Upper  
73 100  
43 21.5 18.0 27.0  
57 21.4 17.0 25.6



#18  
trans-1,2-Dichloroethene  
Concen: 5.158 ug/L  
RT: 2.696 min Scan# 515  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion: 96 Resp: 48181  
Ion Ratio Lower Upper  
96 100  
61 143.2 101.3 188.1  
98 65.3 43.5 80.7





#19

1,1-Dichloroethane

Concen: 5.264 ug/L

RT: 3.111 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

ClientSampleId :

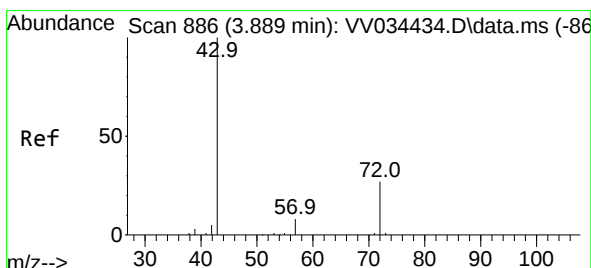
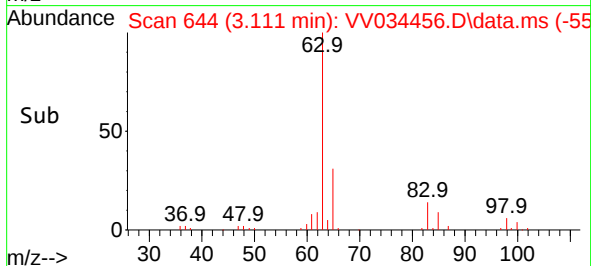
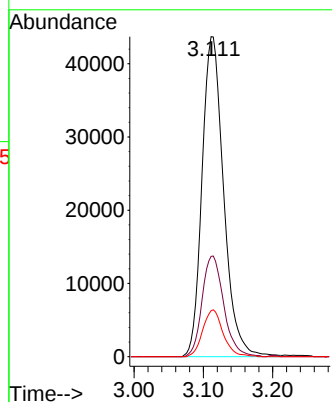
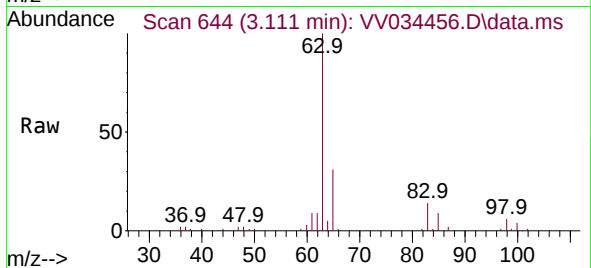
Tgt Ion: 63 Resp: 94623

Ion Ratio Lower Upper

63 100

65 31.4 22.0 41.0

83 14.3 10.1 18.9



#21

2-Butanone

Concen: 54.612 ug/L

RT: 3.892 min Scan# 887

Delta R.T. 0.003 min

Lab File: VV034456.D

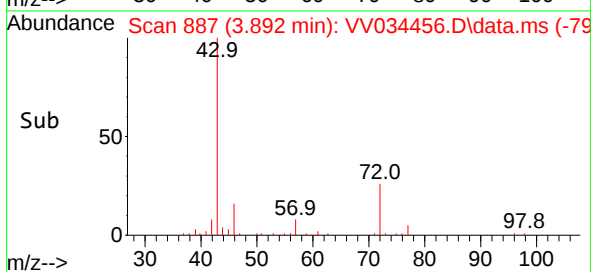
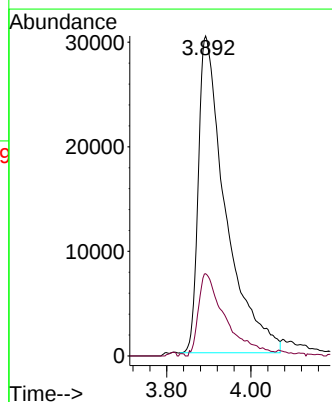
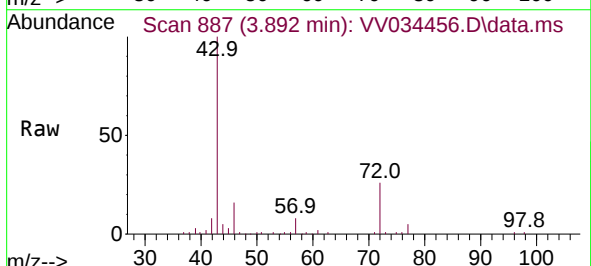
Acq: 27 Feb 2024 17:58

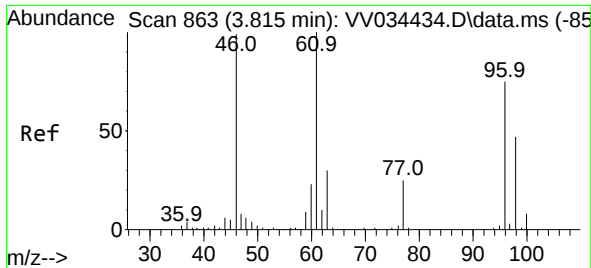
Tgt Ion: 43 Resp: 135735

Ion Ratio Lower Upper

43 100

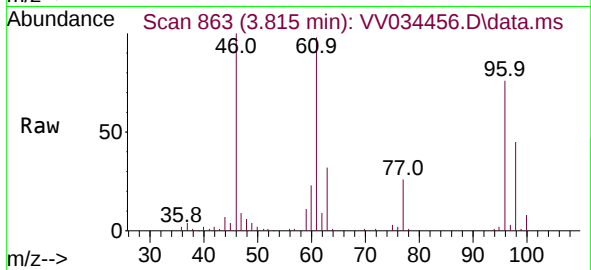
72 25.3 12.4 37.0





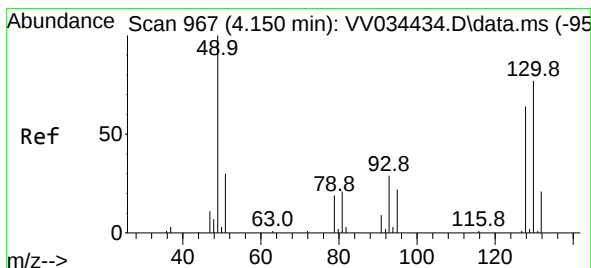
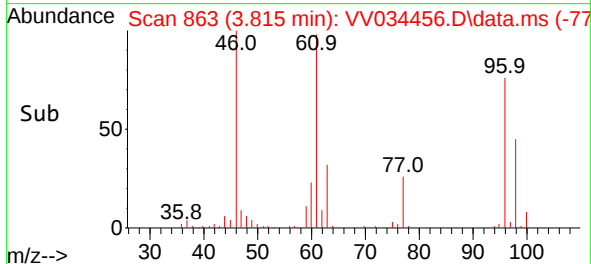
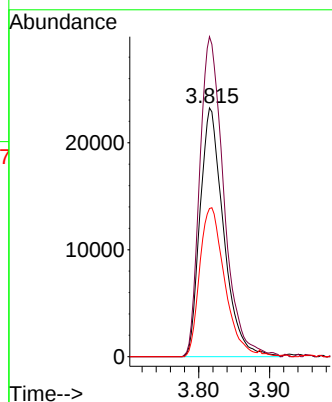
#22  
 cis-1,2-Dichloroethene  
 Concen: 5.229 ug/L  
 RT: 3.815 min Scan# 863  
 Delta R.T. 0.000 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

Instrument :  
 MSVOA\_V  
 ClientSampleId :



Tgt Ion: 96 Resp: 53706

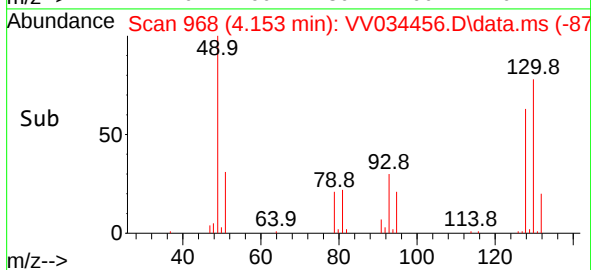
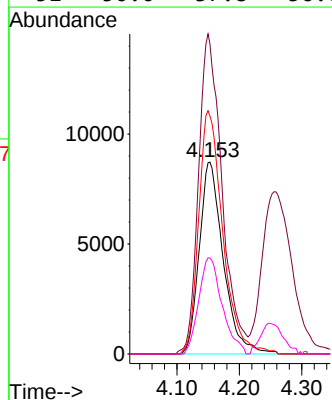
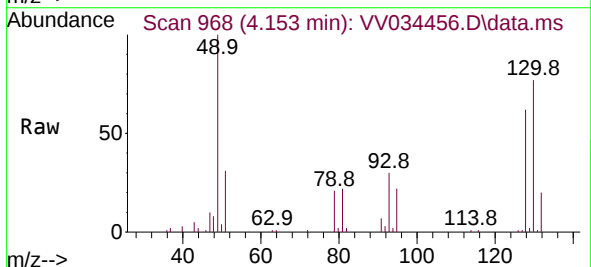
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 128.7 | 89.7  | 166.5 |
| 98  | 59.5  | 42.0  | 78.0  |

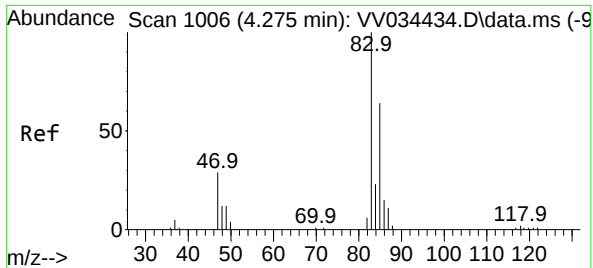


#23  
 Bromochloromethane  
 Concen: 5.433 ug/L  
 RT: 4.153 min Scan# 968  
 Delta R.T. 0.003 min  
 Lab File: VV034456.D  
 Acq: 27 Feb 2024 17:58

Tgt Ion: 128 Resp: 23261

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 49  | 161.7 | 109.9 | 204.1 |
| 130 | 124.1 | 87.7  | 162.9 |
| 51  | 50.0  | 37.8  | 56.6  |

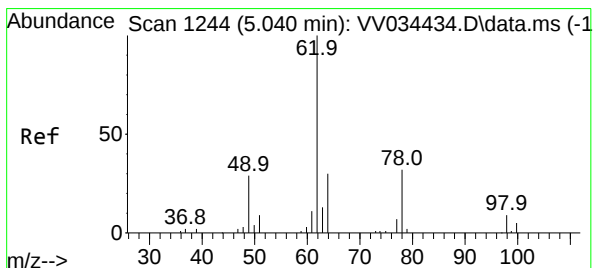
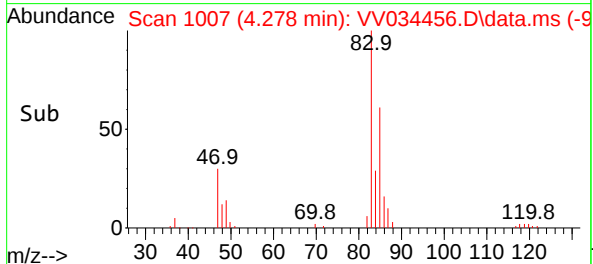
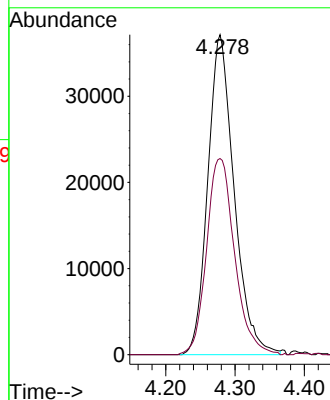
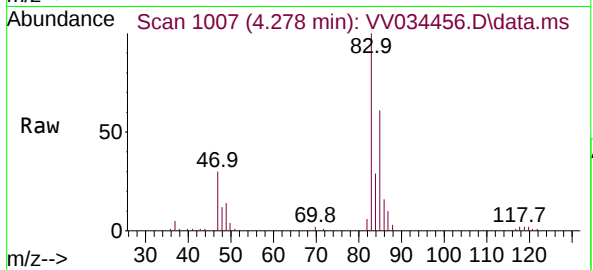




#25  
Chloroform  
Concen: 5.245 ug/L  
RT: 4.278 min Scan# 1006  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

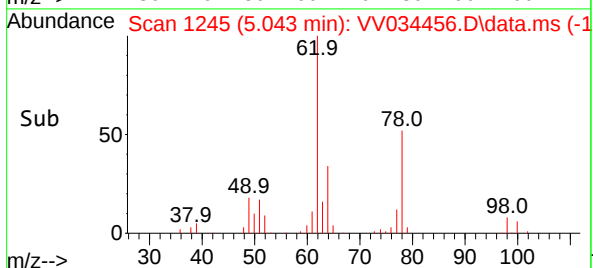
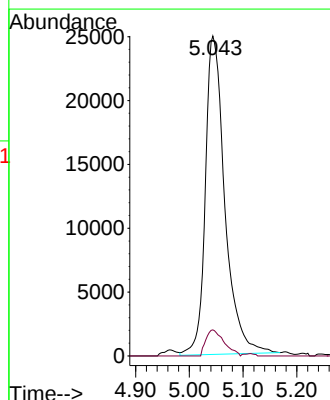
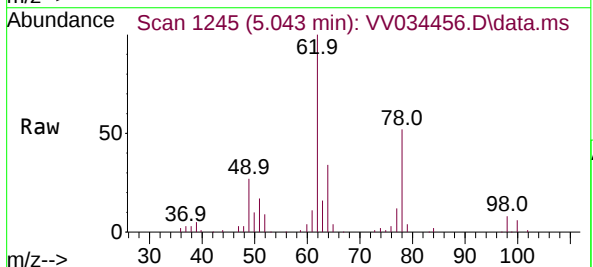
Instrument :  
MSVOA\_V  
ClientSampleId :

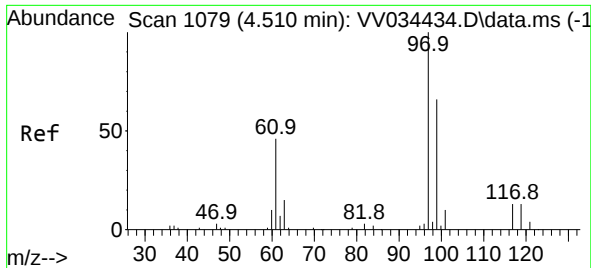
Tgt Ion: 83 Resp: 97941  
Ion Ratio Lower Upper  
83 100  
85 61.3 47.0 87.4



#27  
1,2-Dichloroethane  
Concen: 5.524 ug/L  
RT: 5.043 min Scan# 1245  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion: 62 Resp: 62946  
Ion Ratio Lower Upper  
62 100  
98 8.1 7.0 10.6





#29

1,1,1-Trichloroethane

Concen: 4.908 ug/L

RT: 4.513 min Scan# 1079

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

ClientSampleId :

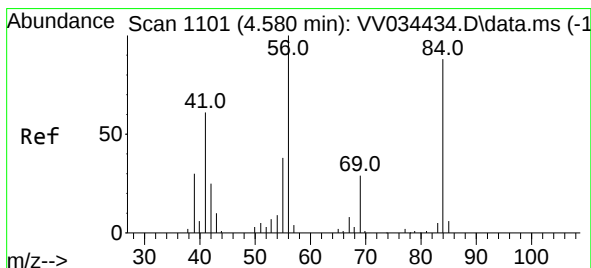
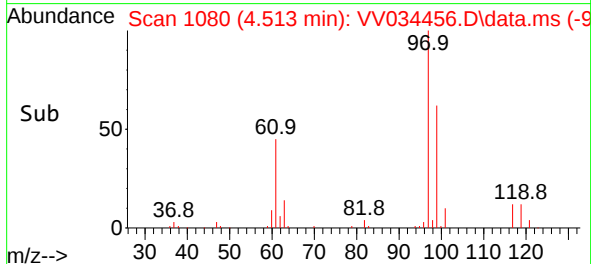
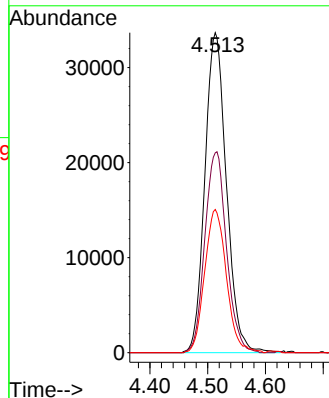
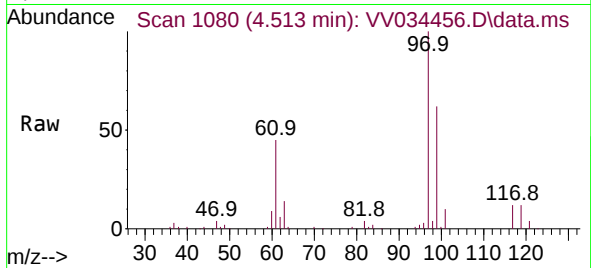
Tgt Ion: 97 Resp: 87311

Ion Ratio Lower Upper

97 100

99 63.1 51.2 76.8

61 45.2 36.1 54.1



#30

Cyclohexane

Concen: 4.683 ug/L

RT: 4.584 min Scan# 1102

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

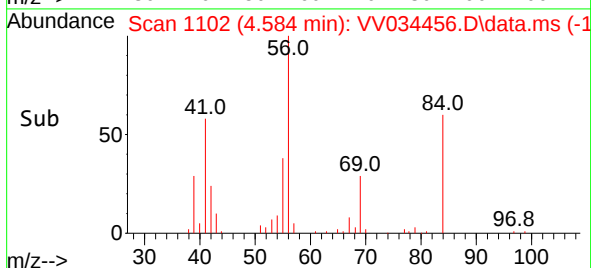
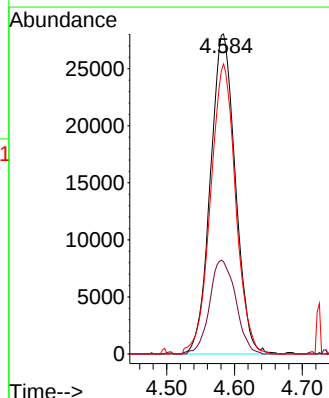
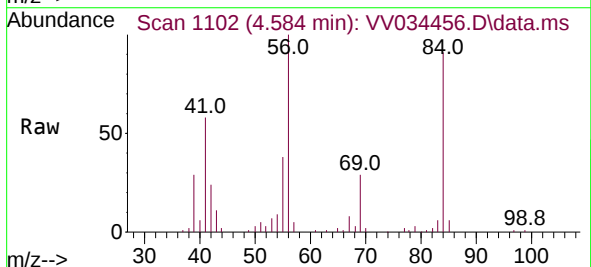
Tgt Ion: 56 Resp: 71661

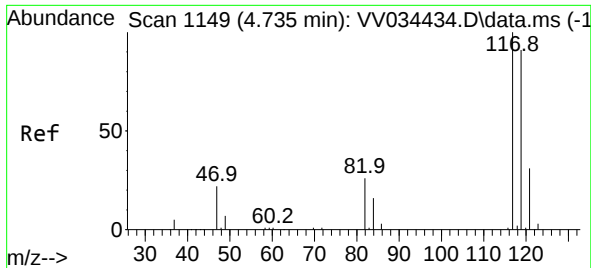
Ion Ratio Lower Upper

56 100

69 30.6 24.5 36.7

84 91.0 70.3 105.5

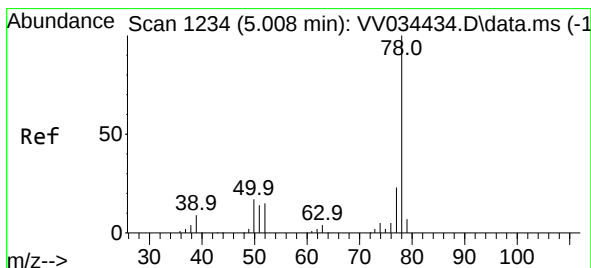
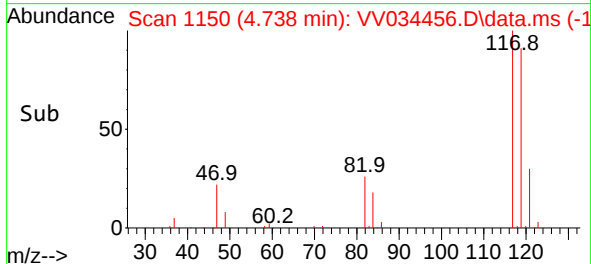
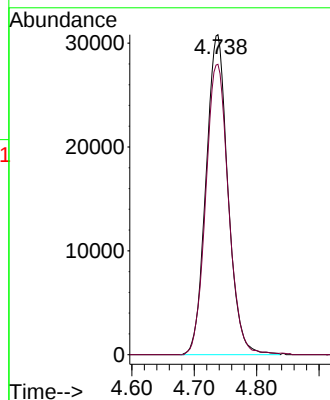
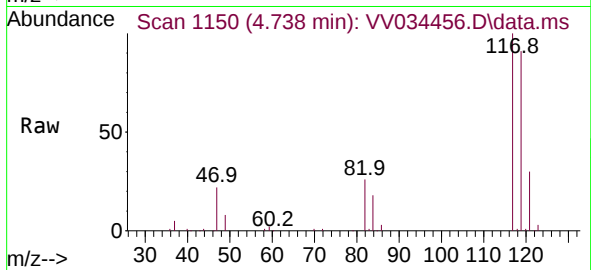




#31  
Carbon tetrachloride  
Concen: 4.878 ug/L  
RT: 4.738 min Scan# 1149  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

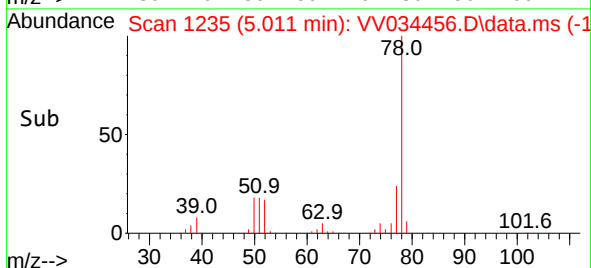
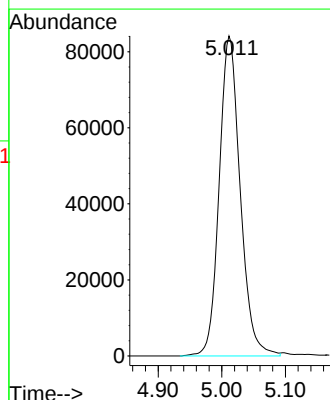
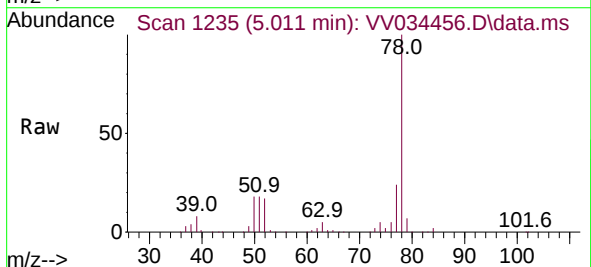
Instrument :  
MSVOA\_V  
ClientSampleId :

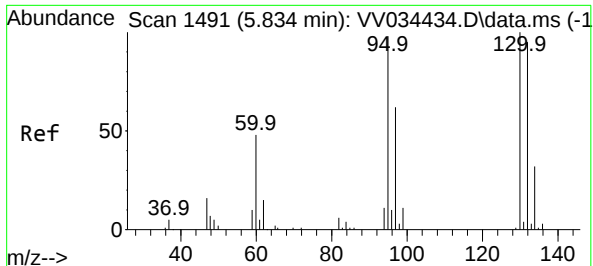
Tgt Ion:117 Resp: 75308  
Ion Ratio Lower Upper  
117 100  
119 94.2 77.0 115.6



#33  
Benzene  
Concen: 4.904 ug/L  
RT: 5.011 min Scan# 1235  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

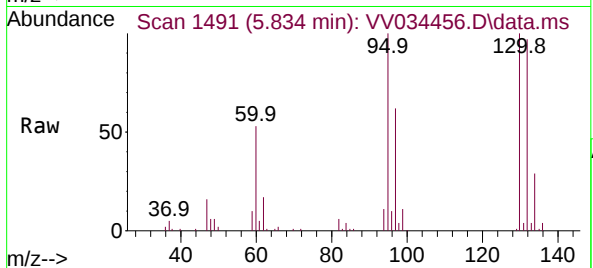
Tgt Ion: 78 Resp: 193024





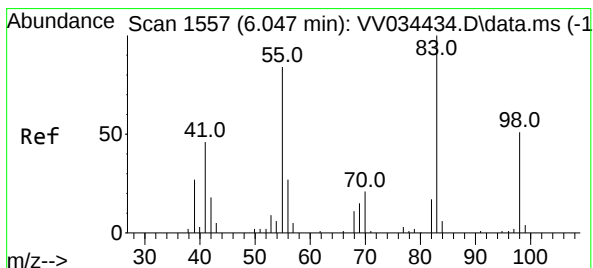
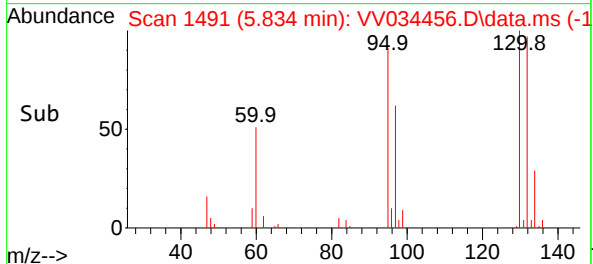
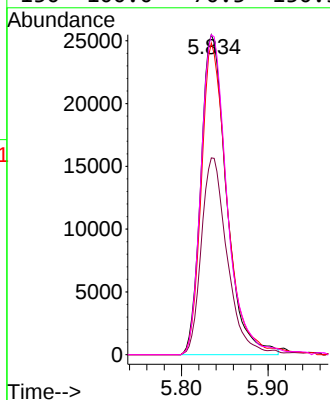
#34  
Trichloroethene  
Concen: 5.117 ug/L  
RT: 5.834 min Scan# 1491  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion: 95 Resp: 52589

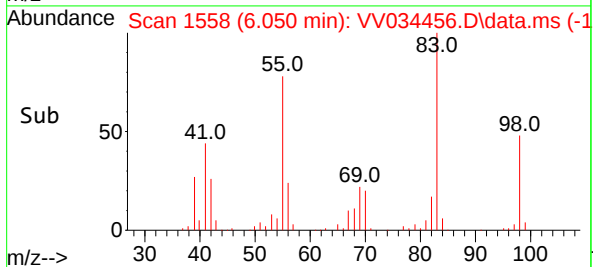
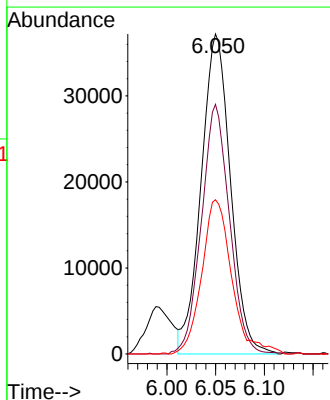
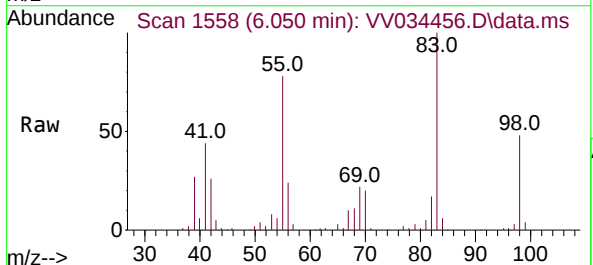
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 61.5  | 43.3  | 80.5  |
| 132 | 97.4  | 67.8  | 126.0 |
| 130 | 100.0 | 70.3  | 130.5 |

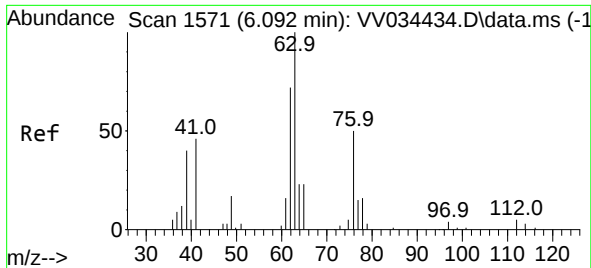


#35  
Methylcyclohexane  
Concen: 4.834 ug/L  
RT: 6.050 min Scan# 1558  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion: 83 Resp: 78007

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 74.6  | 61.9  | 92.9  |
| 98  | 49.2  | 38.1  | 57.1  |





#37

1,2-Dichloropropane

Concen: 5.105 ug/L

RT: 6.095 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

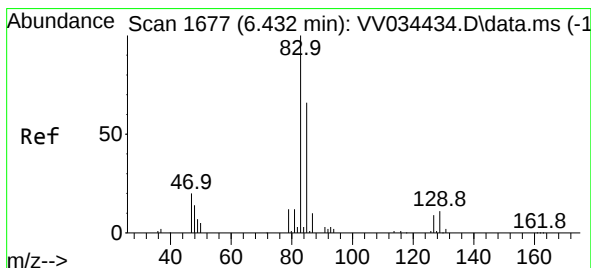
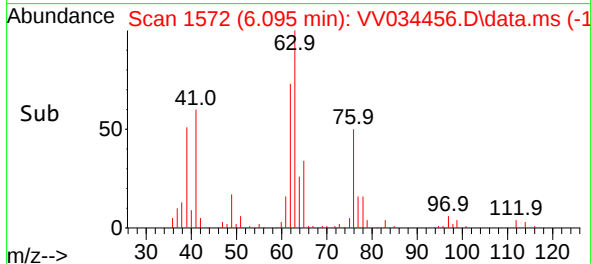
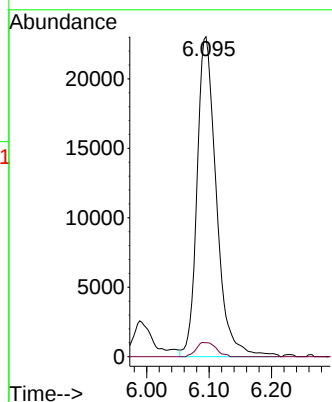
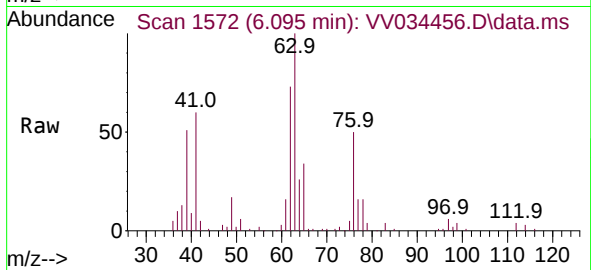
ClientSampleId :

Tgt Ion: 63 Resp: 49666

Ion Ratio Lower Upper

63 100

112 4.6 3.4 5.0



#38

Bromodichloromethane

Concen: 4.968 ug/L

RT: 6.436 min Scan# 1678

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

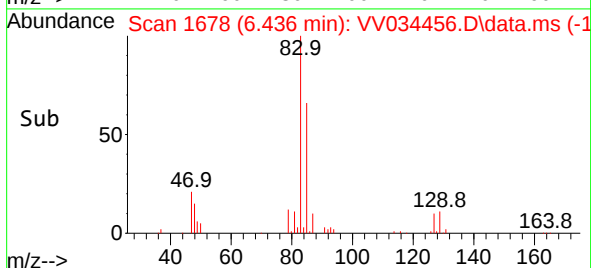
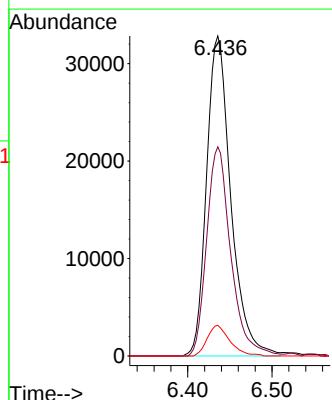
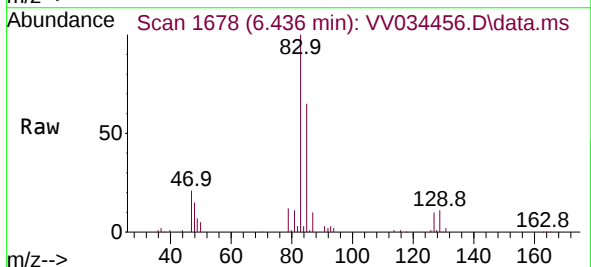
Tgt Ion: 83 Resp: 65868

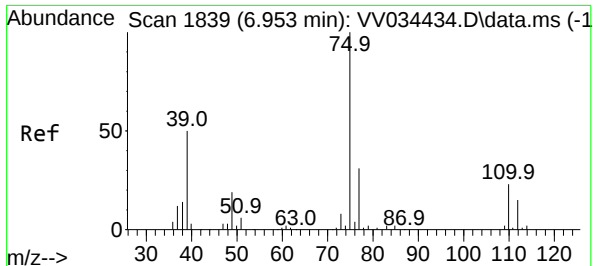
Ion Ratio Lower Upper

83 100

85 65.3 45.4 84.2

127 9.5 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 5.428 ug/L

RT: 6.957 min Scan# 1839

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

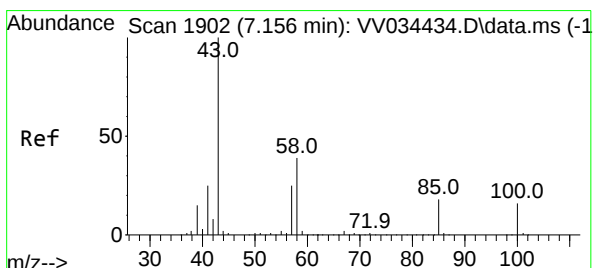
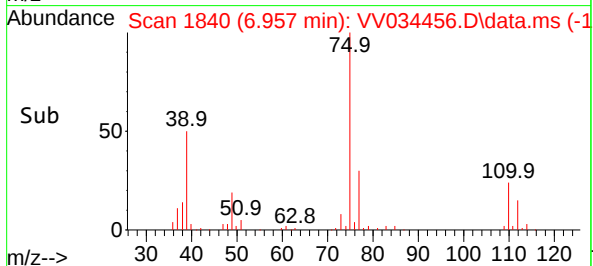
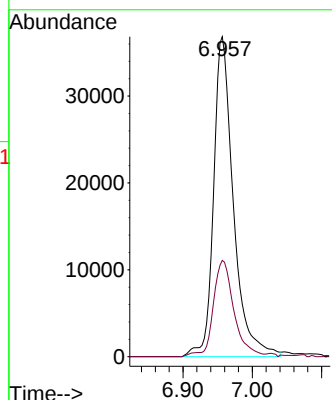
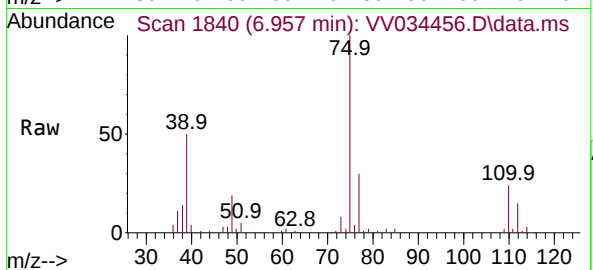
ClientSampleId :

Tgt Ion: 75 Resp: 73192

Ion Ratio Lower Upper

75 100

77 30.1 21.5 39.9



#40

4-Methyl-2-pentanone

Concen: 55.856 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

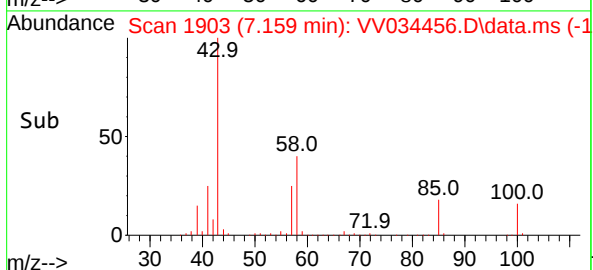
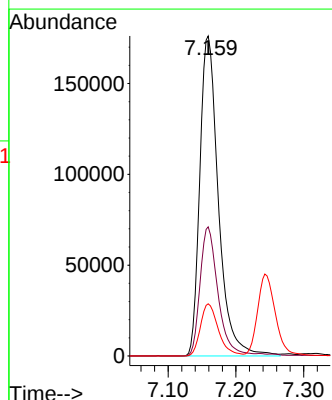
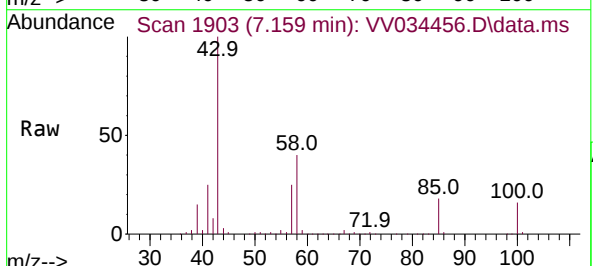
Tgt Ion: 43 Resp: 336177

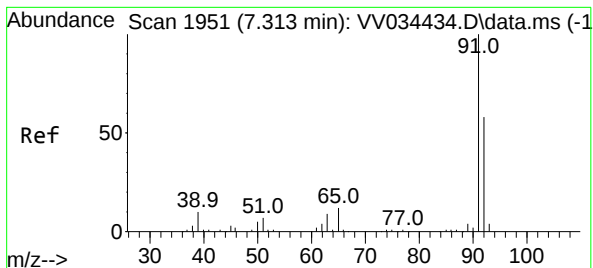
Ion Ratio Lower Upper

43 100

58 38.8 30.7 46.1

100 15.7 12.3 18.5





#42

Toluene

Concen: 5.117 ug/L

RT: 7.317 min Scan# 1951

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

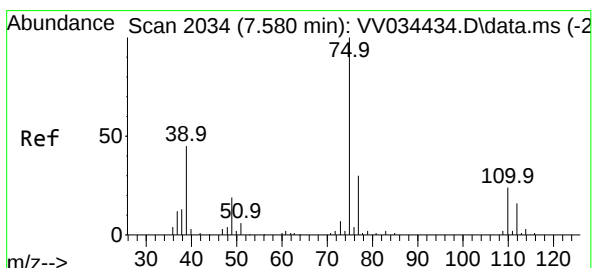
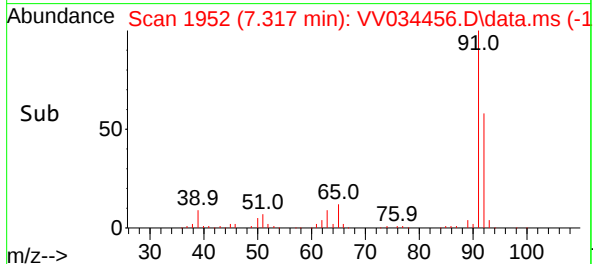
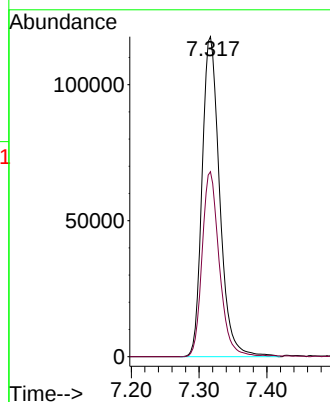
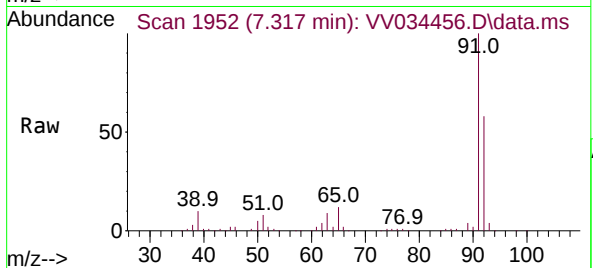
ClientSampleId :

Tgt Ion: 91 Resp: 211595

Ion Ratio Lower Upper

91 100

92 57.8 40.5 75.3



#44

trans-1,3-Dichloropropene

Concen: 5.683 ug/L

RT: 7.584 min Scan# 2035

Delta R.T. 0.003 min

Lab File: VV034456.D

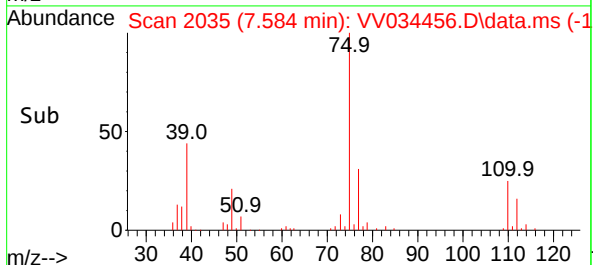
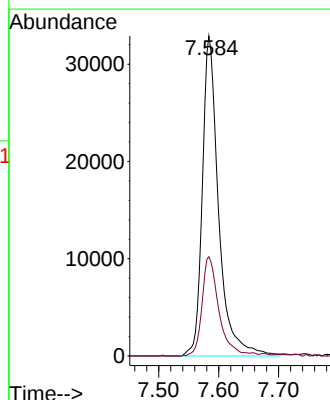
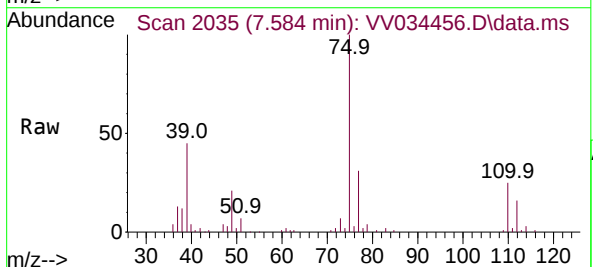
Acq: 27 Feb 2024 17:58

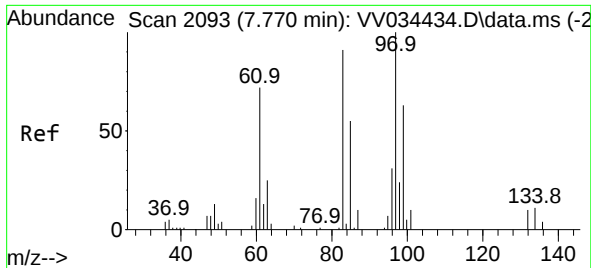
Tgt Ion: 75 Resp: 62224

Ion Ratio Lower Upper

75 100

77 31.0 22.7 42.1

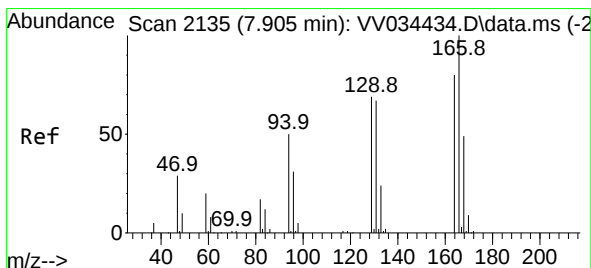
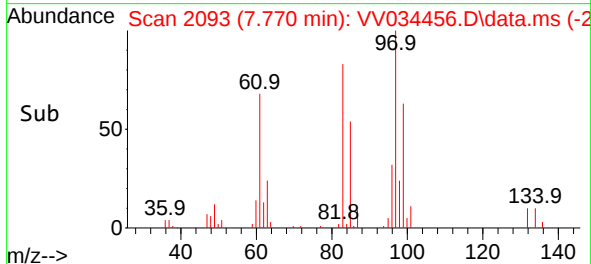
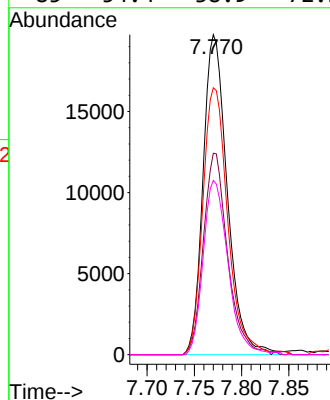
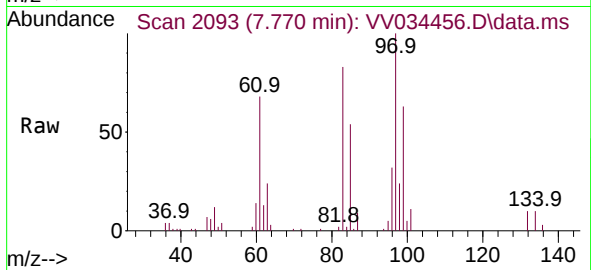




#45  
1,1,2-Trichloroethane  
Concen: 5.325 ug/L  
RT: 7.770 min Scan# 2093  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

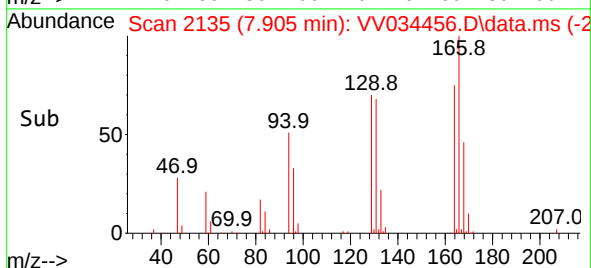
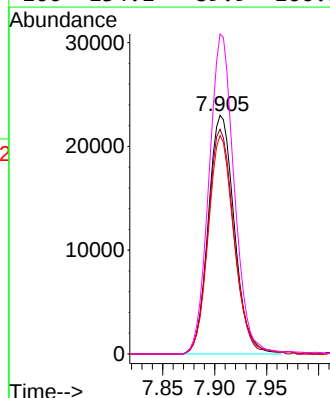
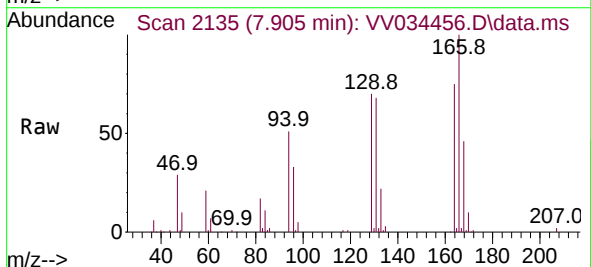
Instrument :  
MSVOA\_V  
ClientSampleId :

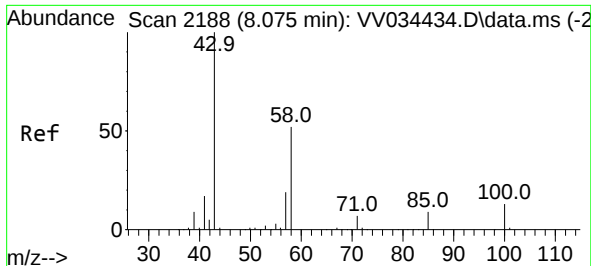
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 35237 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.0  | 43.3  | 80.5  |
| 83       | 83.4  | 57.9  | 107.5 |
| 85       | 54.4  | 38.9  | 72.2  |



#47  
Tetrachloroethene  
Concen: 4.980 ug/L  
RT: 7.905 min Scan# 2135  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 40156 |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 94.2  | 64.2  | 119.2 |
| 131      | 91.5  | 65.9  | 122.3 |
| 166      | 134.1 | 89.9  | 166.9 |

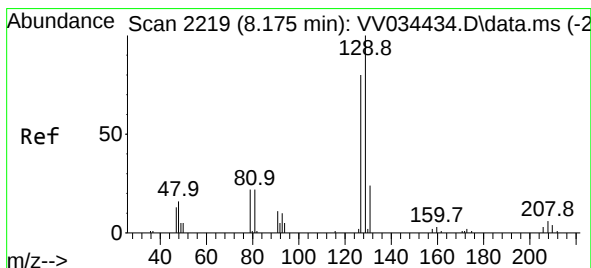
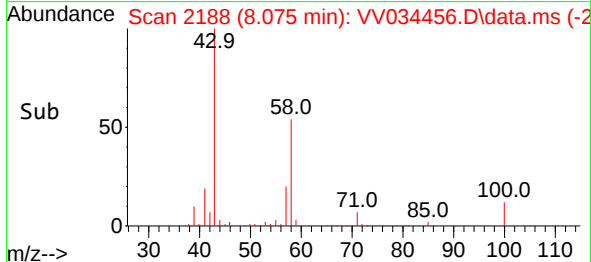
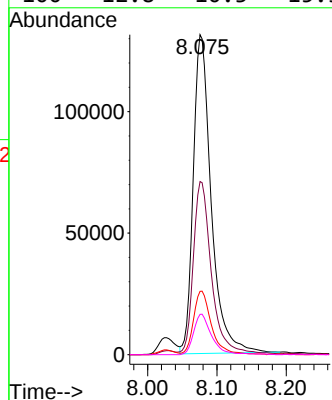
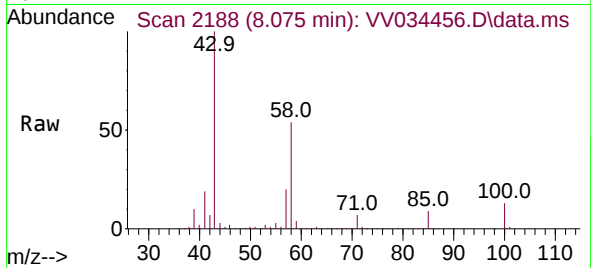




#48  
2-Hexanone  
Concen: 55.376 ug/L  
RT: 8.075 min Scan# 2188  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

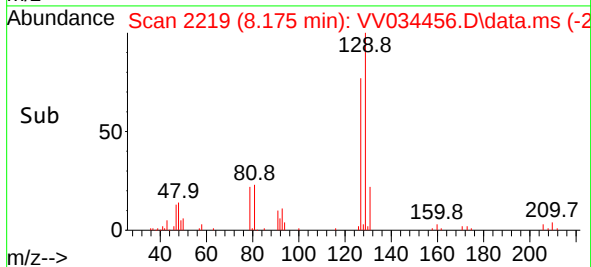
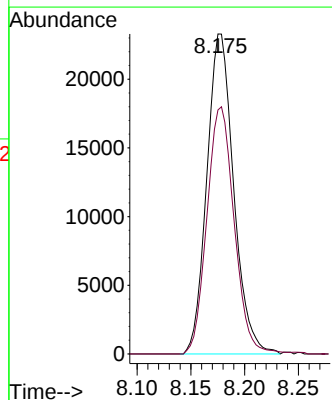
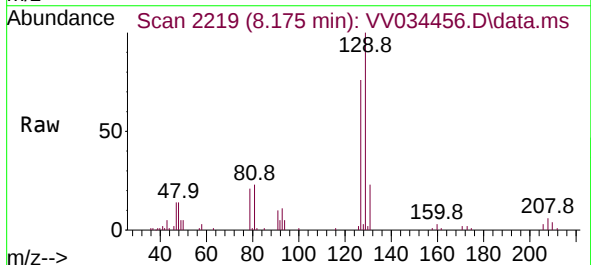
Instrument :  
MSVOA\_V  
ClientSampleId :

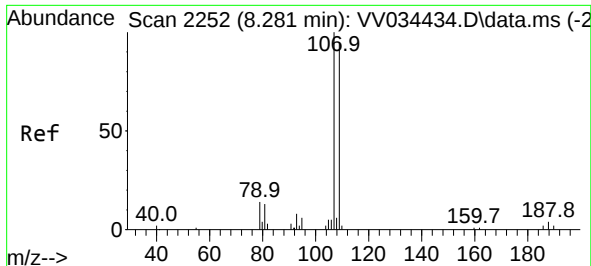
Tgt Ion: 43 Resp: 237385  
Ion Ratio Lower Upper  
43 100  
58 54.5 43.4 65.0  
57 20.0 15.5 23.3  
100 12.8 10.3 15.5



#49  
Dibromochloromethane  
Concen: 5.252 ug/L  
RT: 8.175 min Scan# 2219  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion: 129 Resp: 40467  
Ion Ratio Lower Upper  
129 100  
127 76.3 54.0 100.4

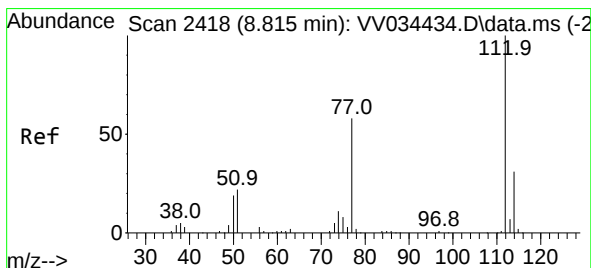
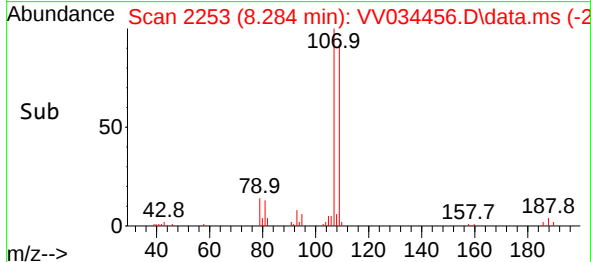
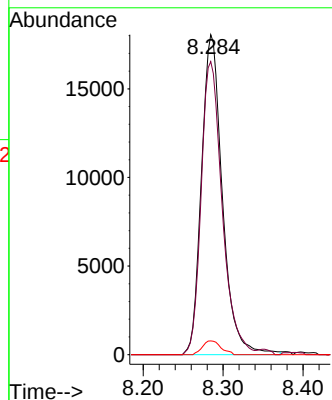
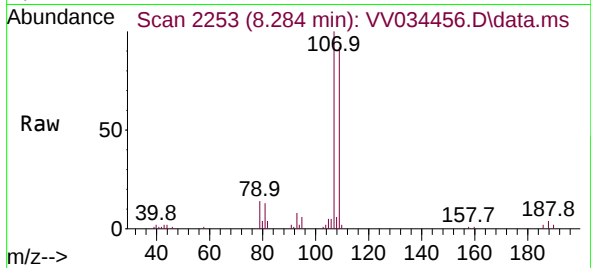




#50  
1,2-Dibromoethane  
Concen: 5.315 ug/L  
RT: 8.284 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

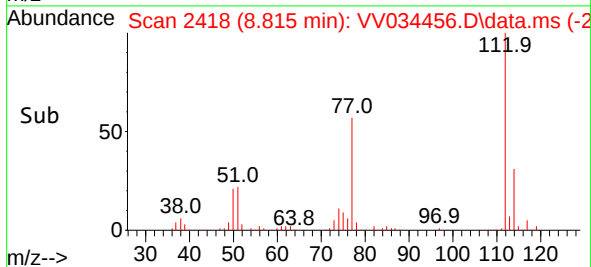
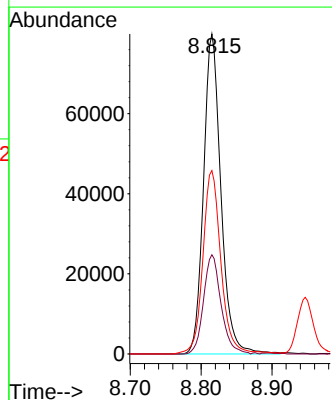
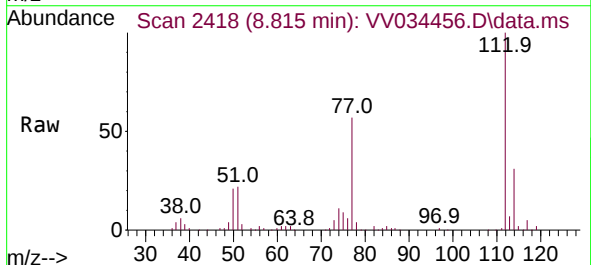
Instrument :  
MSVOA\_V  
ClientSampleId :

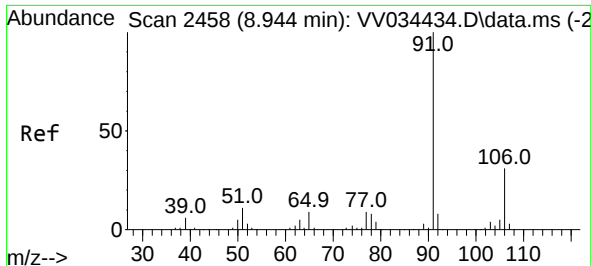
Tgt Ion:107 Resp: 32900  
Ion Ratio Lower Upper  
107 100  
109 91.6 63.8 118.4  
188 4.3 3.1 4.7



#51  
Chlorobenzene  
Concen: 5.074 ug/L  
RT: 8.815 min Scan# 2418  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion:112 Resp: 136299  
Ion Ratio Lower Upper  
112 100  
114 31.0 22.5 41.9  
77 57.3 45.4 68.2





#52

Ethylbenzene

Concen: 5.087 ug/L

RT: 8.947 min Scan# 2458

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

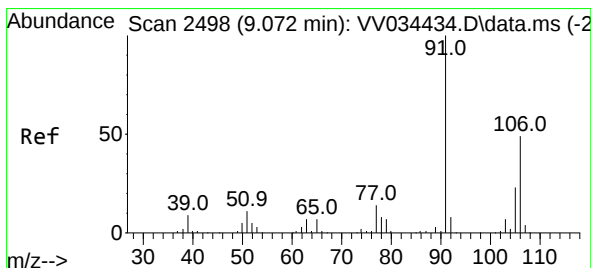
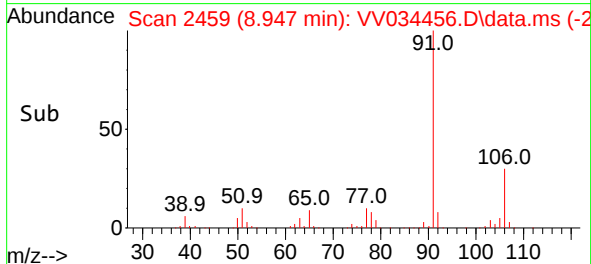
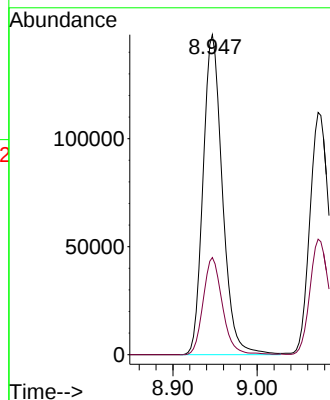
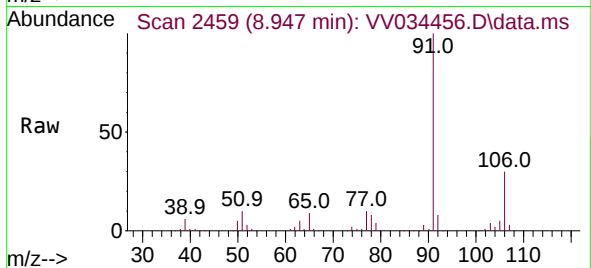
ClientSampleId :

Tgt Ion: 91 Resp: 236909

Ion Ratio Lower Upper

91 100

106 30.4 21.4 39.8



#53

m,p-Xylene

Concen: 5.005 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.000 min

Lab File: VV034456.D

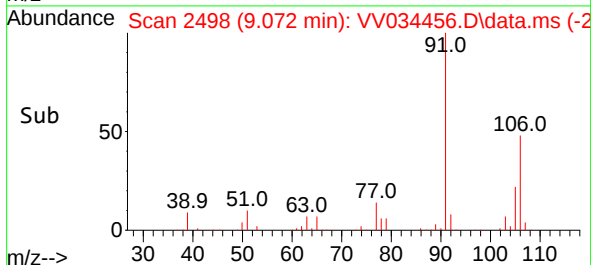
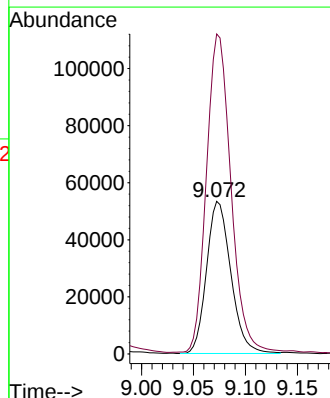
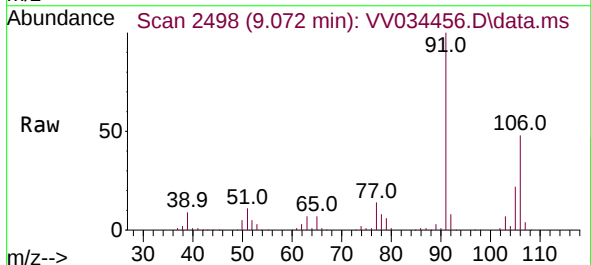
Acq: 27 Feb 2024 17:58

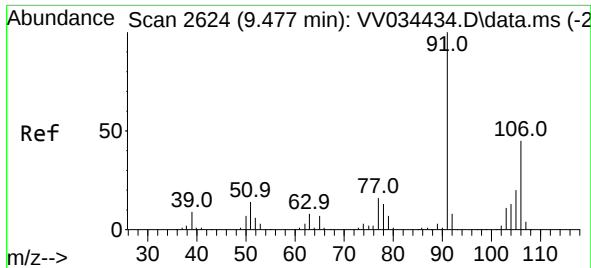
Tgt Ion:106 Resp: 86637

Ion Ratio Lower Upper

106 100

91 209.7 148.5 275.9

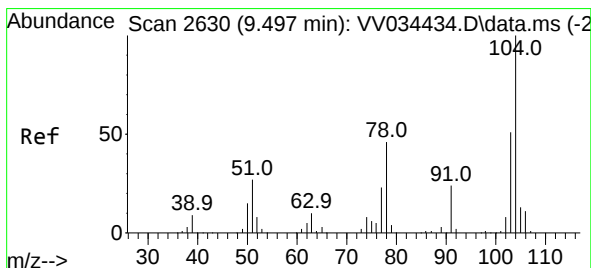
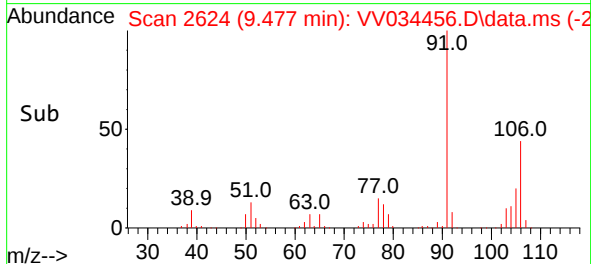
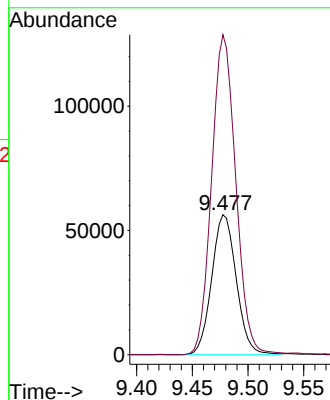
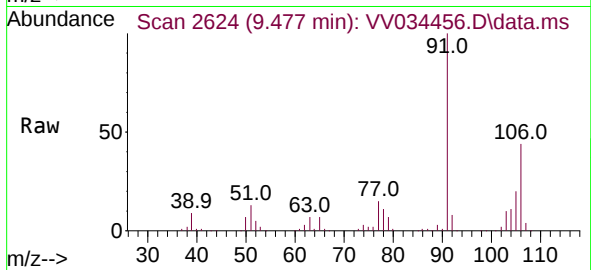




#54  
o-Xylene  
Concen: 4.992 ug/L  
RT: 9.477 min Scan# 2624  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

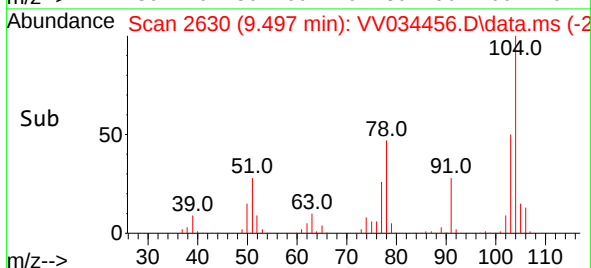
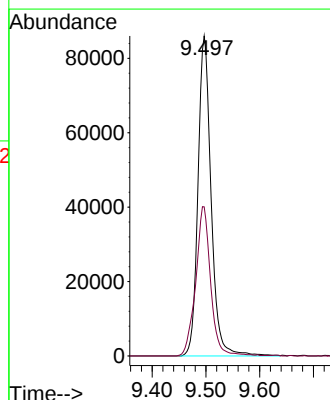
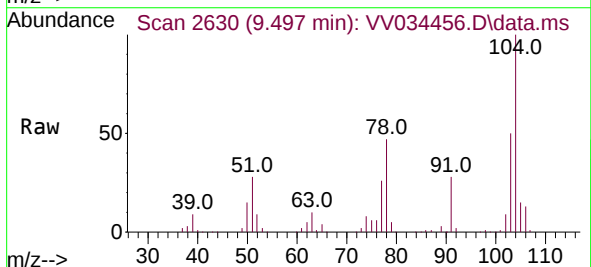
Instrument :  
MSVOA\_V  
ClientSampleId :

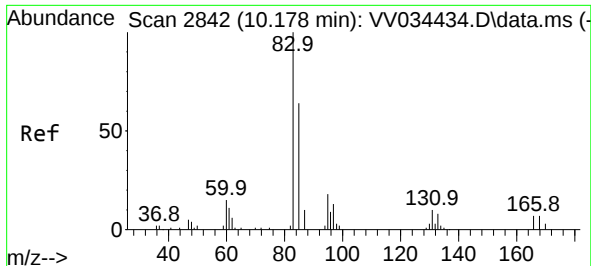
Tgt Ion:106 Resp: 86260  
Ion Ratio Lower Upper  
106 100  
91 228.6 155.8 289.3



#55  
Styrene  
Concen: 5.262 ug/L  
RT: 9.497 min Scan# 2630  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion:104 Resp: 146227  
Ion Ratio Lower Upper  
104 100  
78 46.6 32.9 61.1





#57

1,1,2,2-Tetrachloroethane

Concen: 5.260 ug/L

RT: 10.178 min Scan# 2842

Delta R.T. 0.000 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

ClientSampleId :

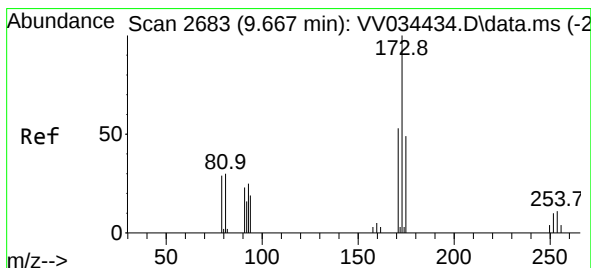
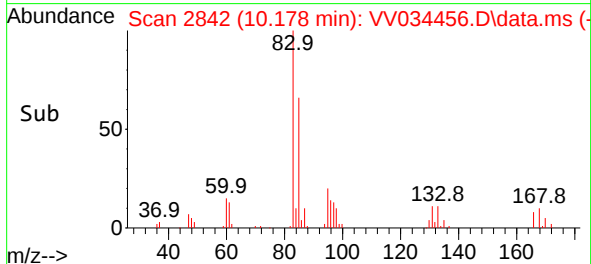
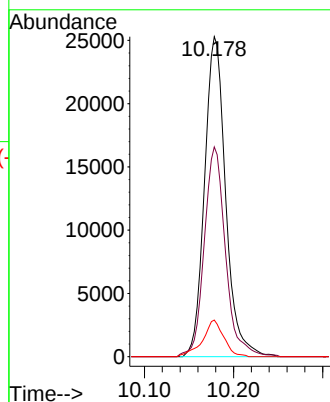
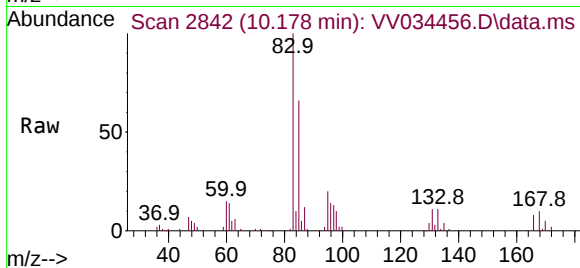
Tgt Ion: 83 Resp: 41645

Ion Ratio Lower Upper

83 100

85 65.6 46.7 86.7

131 11.5 8.6 12.8



#59

Bromoform

Concen: 5.288 ug/L

RT: 9.667 min Scan# 2683

Delta R.T. 0.000 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

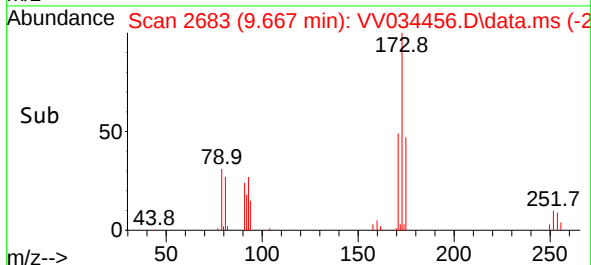
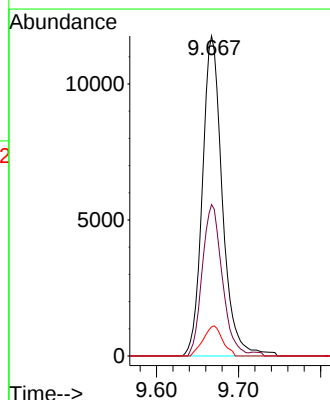
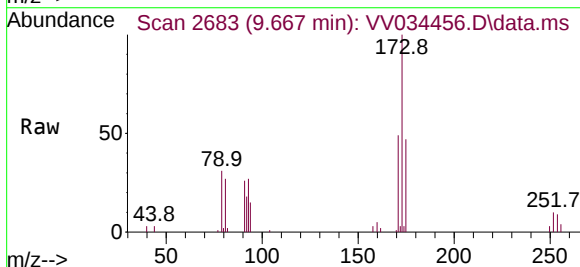
Tgt Ion: 173 Resp: 19853

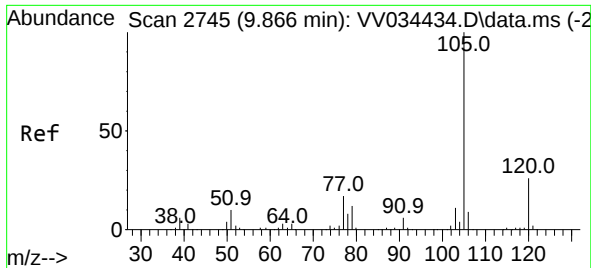
Ion Ratio Lower Upper

173 100

175 47.5 38.9 58.3

254 9.1 7.8 11.6

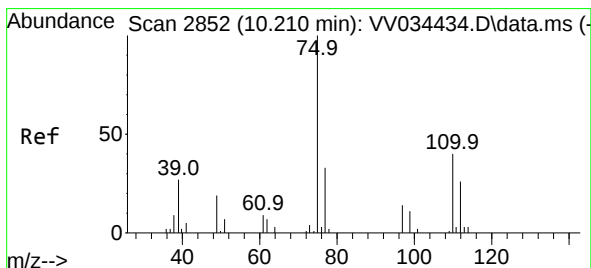
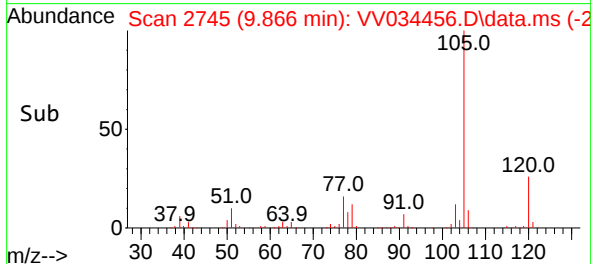
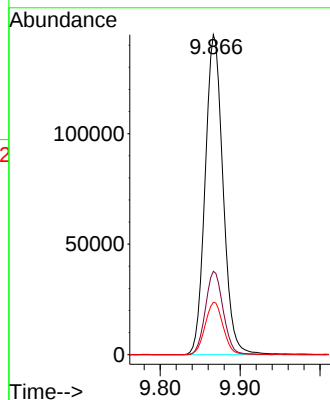
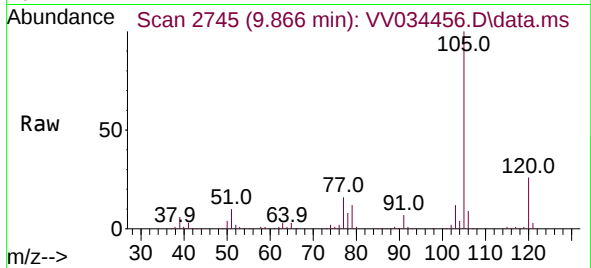




#60  
Isopropylbenzene  
Concen: 5.132 ug/L  
RT: 9.866 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

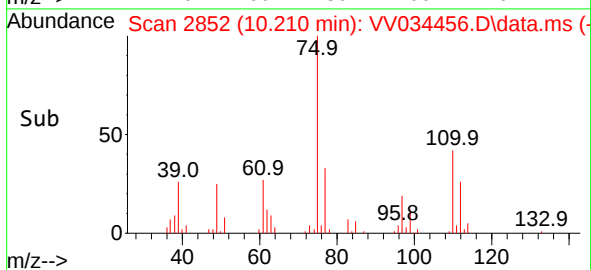
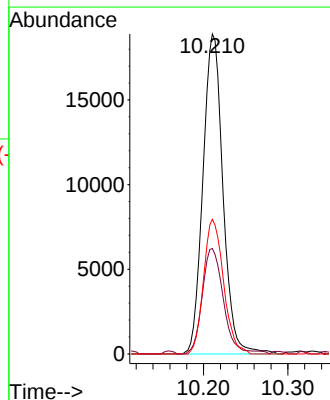
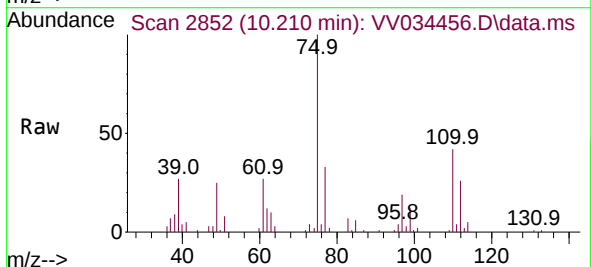
Instrument :  
MSVOA\_V  
ClientSampleId :

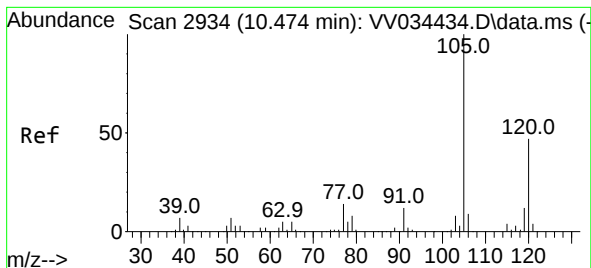
Tgt Ion:105 Resp: 225877  
Ion Ratio Lower Upper  
105 100  
120 25.8 21.3 31.9  
77 16.6 13.0 19.4



#61  
1,2,3-Trichloropropane  
Concen: 5.515 ug/L  
RT: 10.210 min Scan# 2852  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

Tgt Ion: 75 Resp: 31290  
Ion Ratio Lower Upper  
75 100  
77 34.8 27.7 41.5  
110 42.0 32.0 48.0





#62

1,3,5-Trimethylbenzene

Concen: 5.137 ug/L

RT: 10.477 min Scan# 2934

Delta R.T. 0.003 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

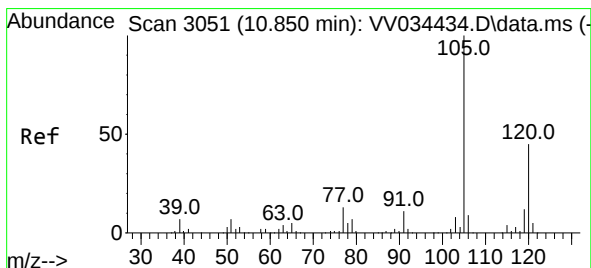
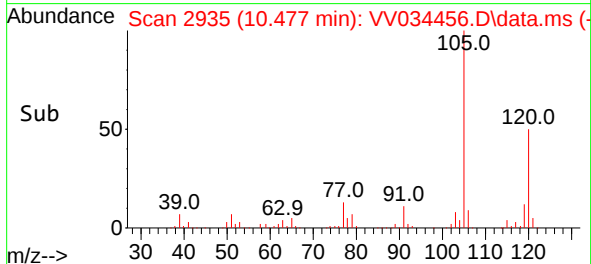
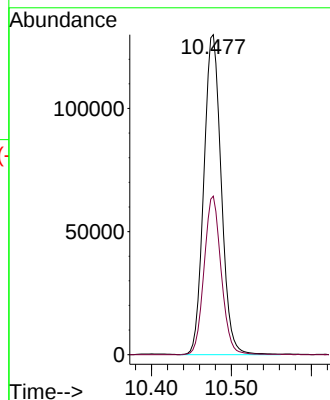
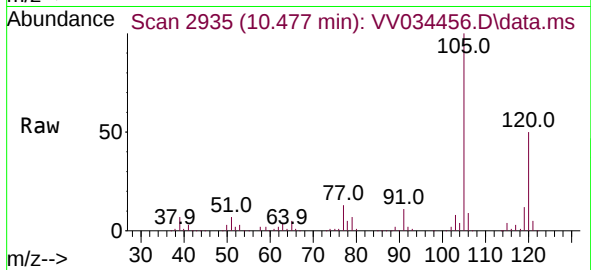
ClientSampleId :

Tgt Ion:105 Resp: 197329

Ion Ratio Lower Upper

105 100

120 48.7 38.7 58.1



#63

1,2,4-Trimethylbenzene

Concen: 5.109 ug/L

RT: 10.850 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VV034456.D

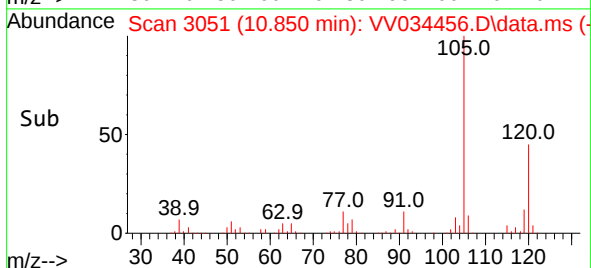
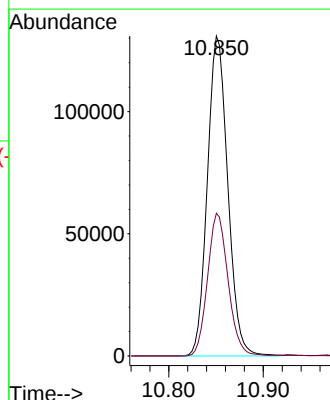
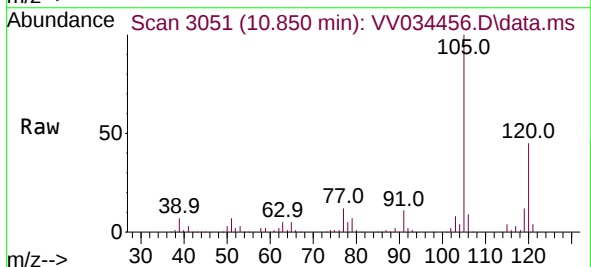
Acq: 27 Feb 2024 17:58

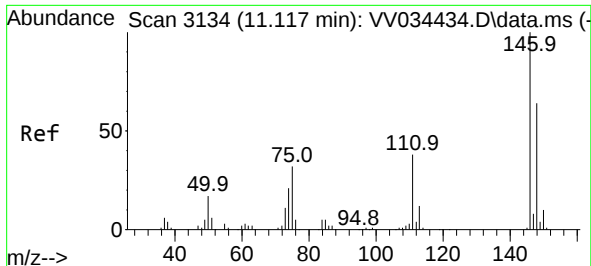
Tgt Ion:105 Resp: 196577

Ion Ratio Lower Upper

105 100

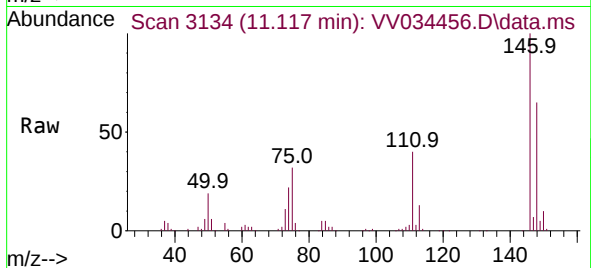
120 44.9 35.4 53.2



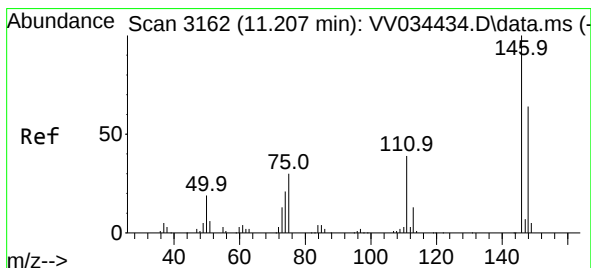
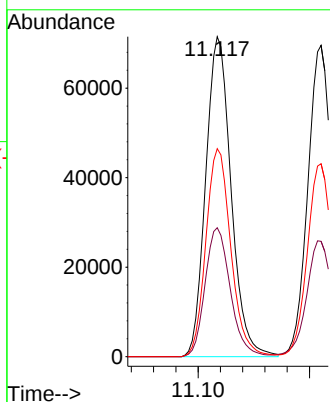
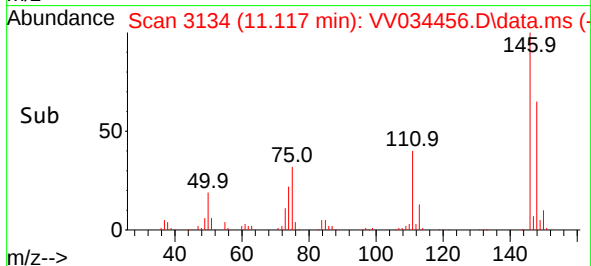


#64  
1,3-Dichlorobenzene  
Concen: 5.292 ug/L  
RT: 11.117 min Scan# 3134  
Delta R.T. 0.000 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

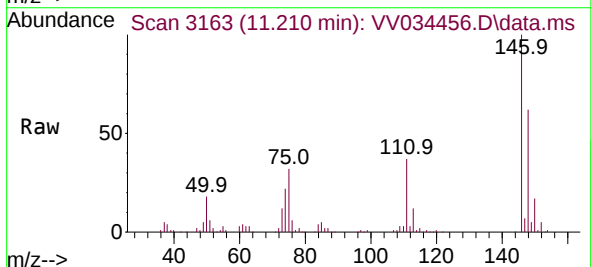
Instrument :  
MSVOA\_V  
ClientSampleId :



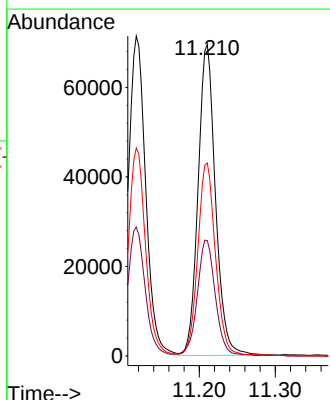
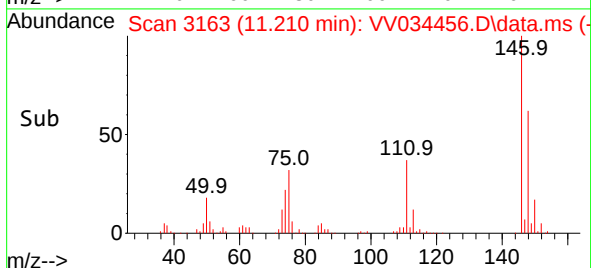
Tgt Ion:146 Resp: 113143  
Ion Ratio Lower Upper  
146 100  
111 40.3 27.0 50.2  
148 65.0 43.1 80.1

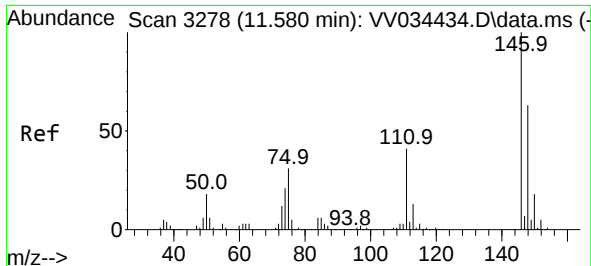


#65  
1,4-Dichlorobenzene  
Concen: 5.202 ug/L  
RT: 11.210 min Scan# 3163  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58



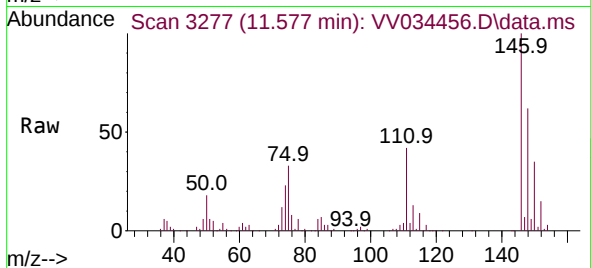
Tgt Ion:146 Resp: 110376  
Ion Ratio Lower Upper  
146 100  
111 37.1 27.2 50.6  
148 62.0 43.5 80.9



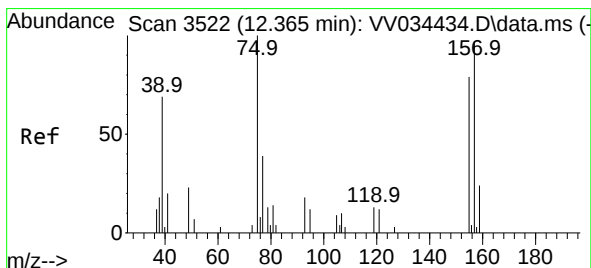
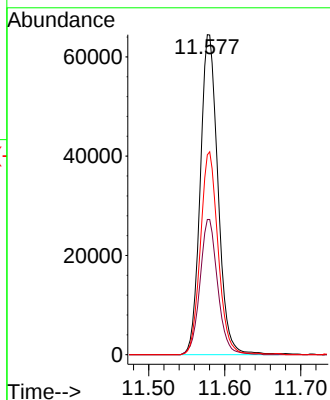
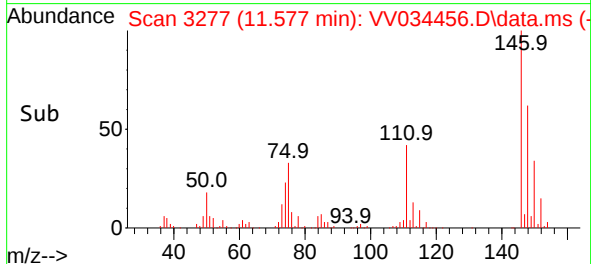


#67  
1,2-Dichlorobenzene  
Concen: 5.206 ug/L  
RT: 11.577 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58

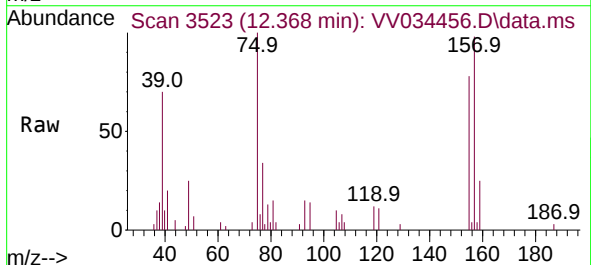
Instrument :  
MSVOA\_V  
ClientSampleId :



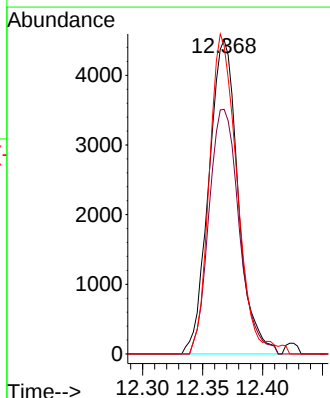
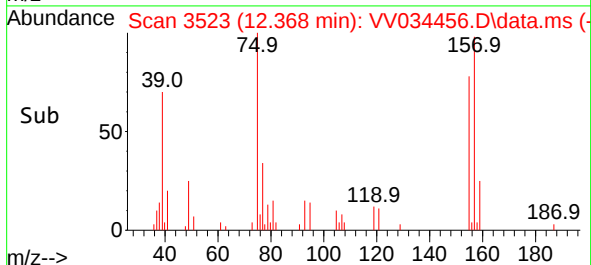
Tgt Ion:146 Resp: 104320  
Ion Ratio Lower Upper  
146 100  
111 42.3 32.2 48.4  
148 62.4 49.7 74.5

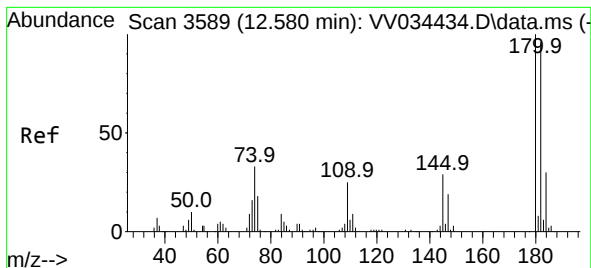


#68  
1,2-Dibromo-3-chloropropane  
Concen: 5.338 ug/L  
RT: 12.368 min Scan# 3523  
Delta R.T. 0.003 min  
Lab File: VV034456.D  
Acq: 27 Feb 2024 17:58



Tgt Ion: 75 Resp: 7651  
Ion Ratio Lower Upper  
75 100  
155 77.9 60.0 90.0  
157 98.2 78.6 117.8





#69

1,3,5-Trichlorobenzene

Concen: 5.086 ug/L

RT: 12.583 min Scan# 3590

Delta R.T. 0.003 min

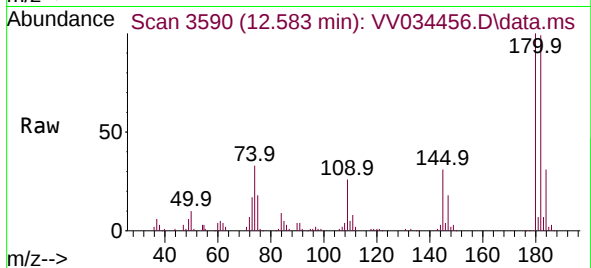
Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:180 Resp: 83432

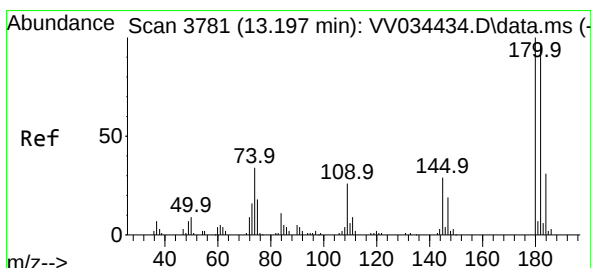
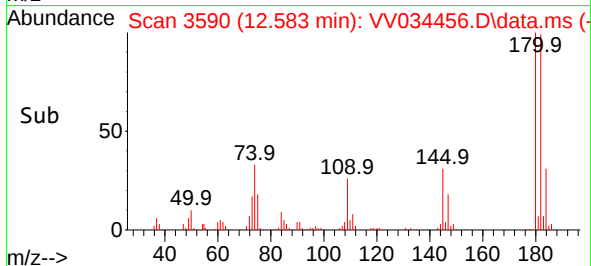
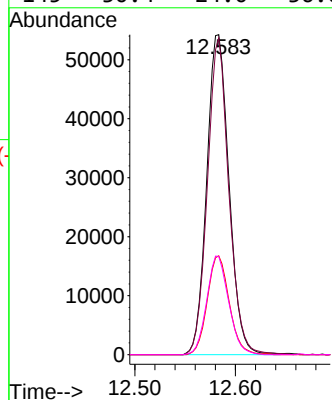
Ion Ratio Lower Upper

180 100

182 95.4 77.8 116.6

184 30.5 23.8 35.8

145 30.4 24.0 36.0



#70

1,2,4-trichlorobenzene

Concen: 5.244 ug/L

RT: 13.197 min Scan# 3781

Delta R.T. 0.000 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

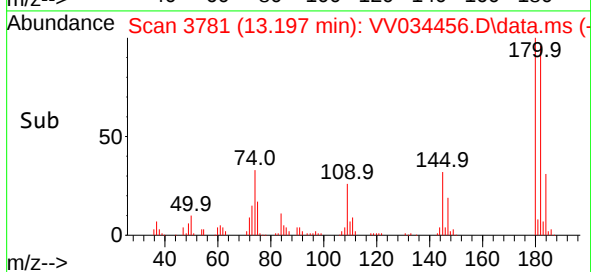
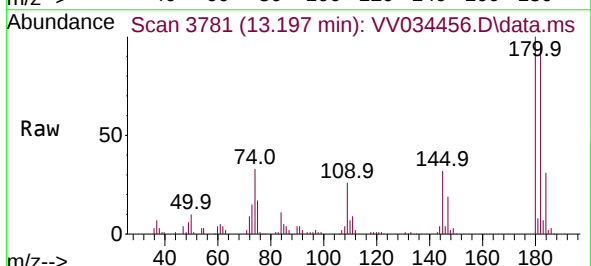
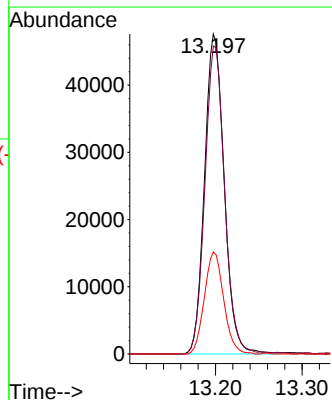
Tgt Ion:180 Resp: 75089

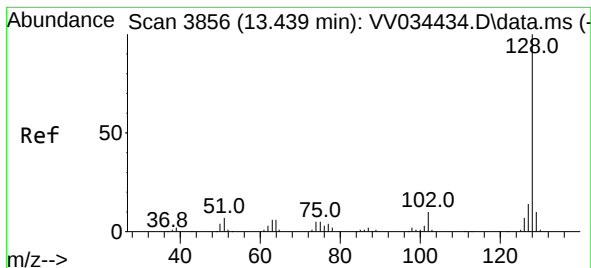
Ion Ratio Lower Upper

180 100

182 96.5 75.3 112.9

145 31.2 23.6 35.4





#71

Naphthalene

Concen: 5.522 ug/L

RT: 13.439 min Scan# 3856

Delta R.T. 0.000 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Instrument :

MSVOA\_V

ClientSampleId :

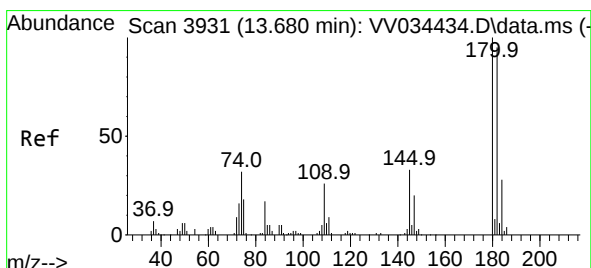
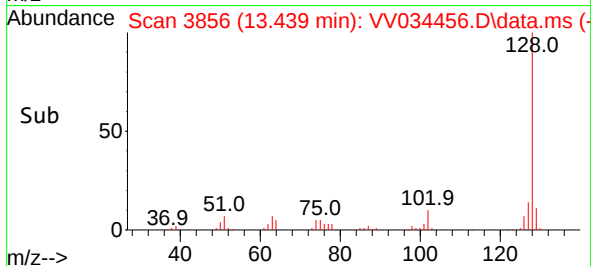
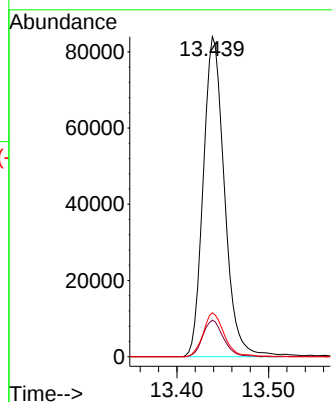
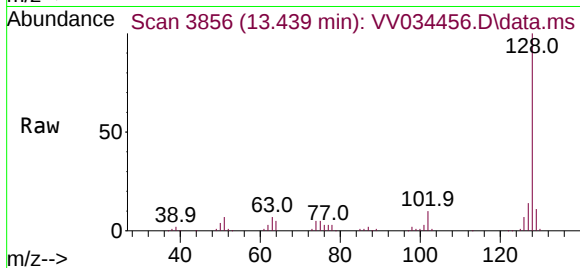
Tgt Ion:128 Resp: 135106

Ion Ratio Lower Upper

128 100

129 11.1 8.4 12.6

127 13.5 10.4 15.6



#72

1,2,3-Trichlorobenzene

Concen: 5.277 ug/L

RT: 13.680 min Scan# 3931

Delta R.T. 0.000 min

Lab File: VV034456.D

Acq: 27 Feb 2024 17:58

Tgt Ion:180 Resp: 67678

Ion Ratio Lower Upper

180 100

182 96.8 76.1 114.1

145 33.6 25.8 38.6

