

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW080822\  
 Data File : VW024197.D  
 Acq On : 08 Aug 2022 09:14  
 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025524

Quant Time: Aug 09 04:10:55 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM080422SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Aug 05 23:43:03 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.841  | 114   | 401470   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.628 | 117   | 376484   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.554 | 152   | 214837   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.343  | 65    | 185719   | 22.131   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 88.520%  |
| 7) Chloroethane-d5            | 2.873  | 69    | 115588   | 22.111   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 88.440%  |
| 11) 1,1-Dichloroethene-d2     | 4.001  | 63    | 237466   | 24.830   | ug/L   | -0.02    |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 99.320%  |
| 21) 2-Butanone-d5             | 7.080  | 46    | 74678    | 47.833   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 95.660%  |
| 24) Chloroform-d              | 7.640  | 84    | 283186   | 23.312   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 93.240%  |
| 26) 1,2-Dichloroethane-d4     | 8.299  | 65    | 148718   | 22.051   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 88.200%  |
| 32) Benzene-d6                | 8.268  | 84    | 536913   | 24.181   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 96.720%  |
| 36) 1,2-Dichloropropane-d6    | 9.268  | 67    | 152924   | 23.327   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 93.320%  |
| 41) Toluene-d8                | 10.317 | 98    | 510185   | 24.583   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 98.320%  |
| 43) trans-1,3-Dichloroprop... | 10.573 | 79    | 72119    | 25.116   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 100.480% |
| 47) 2-Hexanone-d5             | 10.920 | 63    | 62380    | 51.516   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 103.040% |
| 56) 1,1,2,2-Tetrachloroeth... | 12.688 | 84    | 146222   | 22.989   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 91.960%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.847 | 152   | 188450   | 23.971   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 95.880%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.001  | 85    | 106482   | 30.147   | ug/L   | 100      |
| 3) Chloromethane              | 2.202  | 50    | 159525   | 24.082   | ug/L   | 99       |
| 5) Vinyl chloride             | 2.349  | 62    | 225981   | 24.506   | ug/L   | 96       |
| 6) Bromomethane               | 2.763  | 94    | 129850   | 24.559   | ug/L   | 94       |
| 8) Chloroethane               | 2.910  | 64    | 98181    | 24.307   | ug/L   | 96       |
| 9) Trichlorofluoromethane     | 3.245  | 101   | 112125   | 25.651   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 4.044  | 101   | 153894   | 26.104   | ug/L   | 95       |
| 12) 1,1-Dichloroethene        | 4.019  | 96    | 136229   | 28.225   | ug/L   | 90       |
| 13) Acetone                   | 4.123  | 43    | 50850    | 44.239   | ug/L   | 63       |
| 14) Carbon disulfide          | 4.367  | 76    | 390582   | 25.289   | ug/L   | 99       |
| 15) Methyl Acetate            | 4.665  | 43    | 61197    | 23.637   | ug/L   | 98       |
| 16) Methylene chloride        | 4.903  | 84    | 146680   | 20.718   | ug/L   | 93       |
| 17) trans-1,2-Dichloroethene  | 5.415  | 96    | 146869   | 26.350   | ug/L   | 90       |
| 18) Methyl tert-butyl Ether   | 5.427  | 73    | 218855   | 27.536   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.208  | 63    | 247811   | 25.240   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 7.165  | 96    | 156004   | 25.486   | ug/L   | # 95     |
| 22) 2-Butanone                | 7.171  | 43    | 87252    | 45.047   | ug/L   | 98       |
| 23) Bromochloromethane        | 7.506  | 128   | 76849    | 25.209   | ug/L   | # 91     |
| 25) Chloroform                | 7.671  | 83    | 278384   | 25.731   | ug/L   | 97       |

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 Operator : SY/VA  
 Sample : VSTDCCC025  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025524

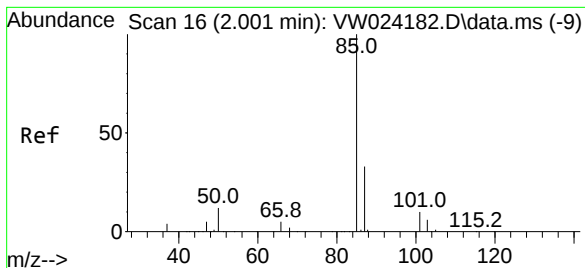
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM080422SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Fri Aug 05 23:43:03 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 27) 1,2-Dichloroethane        | 8.396  | 62   | 176907   | 24.300 | ug/L   | 98       |
| 29) Cyclohexane               | 7.951  | 56   | 222144   | 28.781 | ug/L   | 98       |
| 30) 1,1,1-Trichloroethane     | 7.866  | 97   | 230841   | 27.189 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 8.061  | 117  | 217610   | 27.168 | ug/L   | 99       |
| 33) Benzene                   | 8.317  | 78   | 591701   | 26.610 | ug/L   | 100      |
| 34) Trichloroethene           | 9.085  | 95   | 156893   | 26.695 | ug/L   | 95       |
| 35) Methylcyclohexane         | 9.329  | 83   | 270260   | 29.324 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 9.366  | 63   | 142862   | 25.991 | ug/L   | 99       |
| 38) Bromodichloromethane      | 9.640  | 83   | 199421   | 25.867 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 10.067 | 75   | 229565   | 28.388 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 10.207 | 43   | 190094   | 52.109 | ug/L   | 99       |
| 42) Toluene                   | 10.384 | 91   | 650464   | 27.528 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 10.603 | 75   | 204009   | 27.610 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 10.786 | 97   | 116876   | 25.227 | ug/L   | 97       |
| 46) Tetrachloroethene         | 10.859 | 164  | 130525   | 27.432 | ug/L   | 91       |
| 48) 2-Hexanone                | 10.963 | 43   | 135250   | 54.631 | ug/L   | 99       |
| 49) Dibromochloromethane      | 11.128 | 129  | 149642   | 26.830 | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 11.231 | 107  | 114260   | 25.741 | ug/L # | 100      |
| 51) Chlorobenzene             | 11.652 | 112  | 433963   | 26.880 | ug/L   | 97       |
| 52) Ethylbenzene              | 11.725 | 91   | 716788   | 27.688 | ug/L   | 98       |
| 53) m,p-Xylene                | 11.835 | 106  | 278535   | 27.640 | ug/L   | 95       |
| 54) o-Xylene                  | 12.164 | 106  | 269756   | 28.335 | ug/L   | 95       |
| 55) Styrene                   | 12.176 | 104  | 470784   | 28.433 | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 144028   | 24.875 | ug/L   | 95       |
| 59) Bromoform                 | 12.347 | 173  | 81991    | 25.020 | ug/L # | 99       |
| 60) Isopropylbenzene          | 12.463 | 105  | 726445   | 27.932 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 12.768 | 75   | 101526   | 23.746 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.938 | 105  | 631891   | 29.401 | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.243 | 105  | 610179   | 28.828 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene       | 13.499 | 146  | 344610   | 27.059 | ug/L   | 92       |
| 65) 1,4-Dichlorobenzene       | 13.572 | 146  | 355291   | 26.346 | ug/L   | 94       |
| 67) 1,2-Dichlorobenzene       | 13.865 | 146  | 317035   | 26.215 | ug/L   | 95       |
| 68) 1,2-Dibromo-3-chloropr... | 14.481 | 75   | 22314    | 22.338 | ug/L   | 99       |
| 69) 1,3,5-Trichlorobenzene    | 14.627 | 180  | 250727   | 30.024 | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 15.127 | 180  | 207996   | 31.101 | ug/L   | 98       |
| 71) Naphthalene               | 15.359 | 128  | 409234   | 31.416 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.548 | 180  | 186825   | 30.684 | ug/L   | 97       |

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

Quant Time: Aug 09 04:10:55 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM080422SMA.M  
Quant Title : SFAM01.0  
QLast Update : Fri Aug 05 23:43:03 2022  
Response via : Initial Calibration

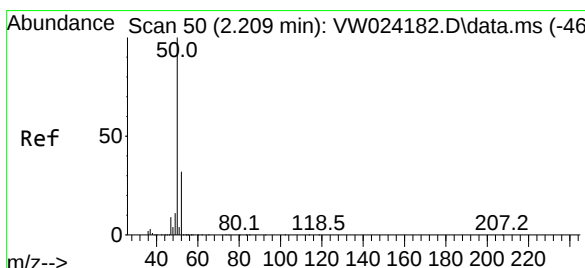
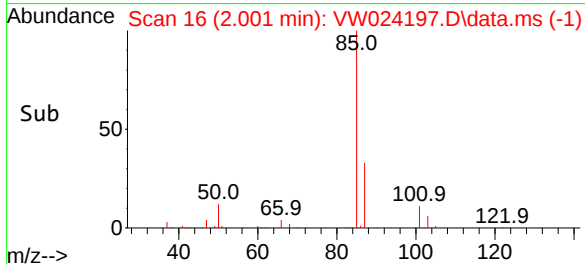
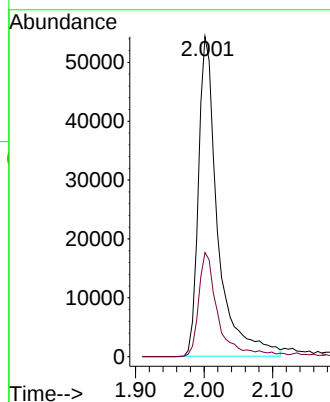
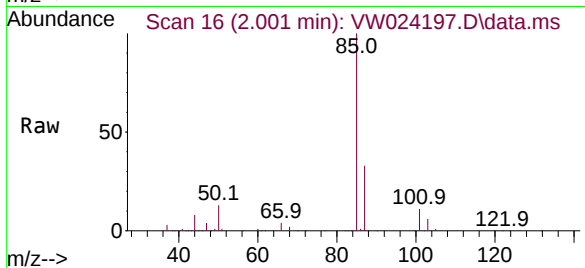




#2  
 Dichlorodifluoromethane  
 Concen: 30.147 ug/L  
 RT: 2.001 min Scan# 1  
 Delta R.T. -0.000 min  
 Lab File: VW024197.D  
 Acq: 08 Aug 2022 09:14

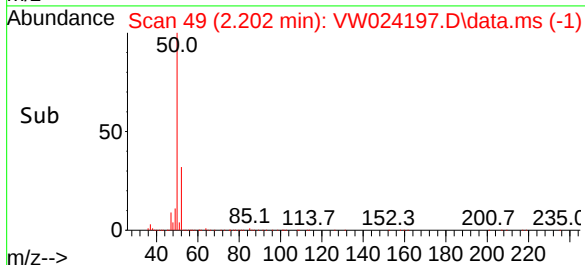
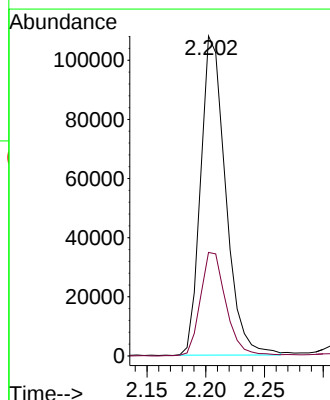
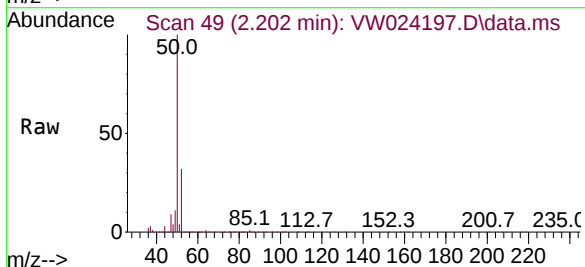
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025524

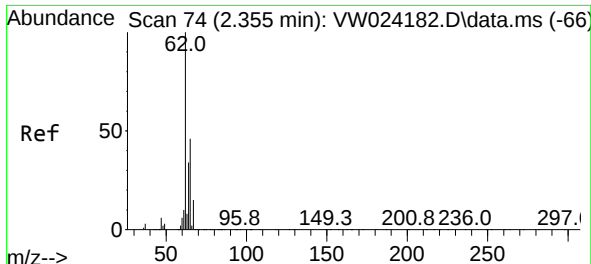
Tgt Ion: 85 Resp: 106482  
 Ion Ratio Lower Upper  
 85 100  
 87 30.5 24.5 36.7



#3  
 Chloromethane  
 Concen: 24.082 ug/L  
 RT: 2.202 min Scan# 49  
 Delta R.T. -0.006 min  
 Lab File: VW024197.D  
 Acq: 08 Aug 2022 09:14

Tgt Ion: 50 Resp: 159525  
 Ion Ratio Lower Upper  
 50 100  
 52 32.4 23.2 43.2

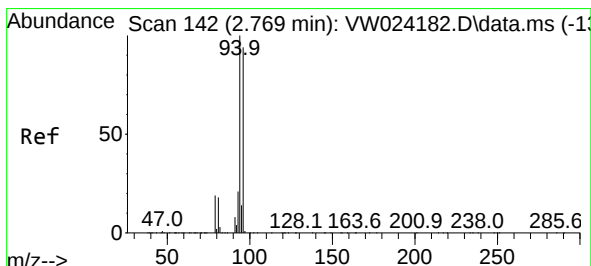
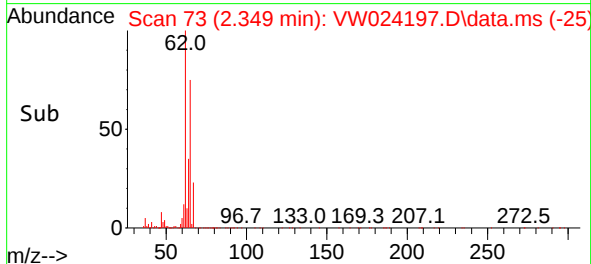
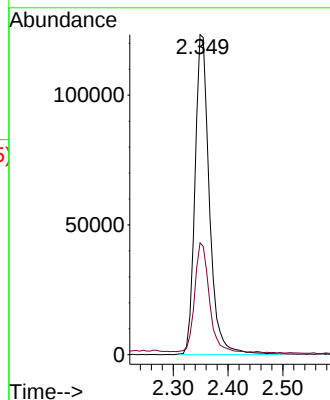
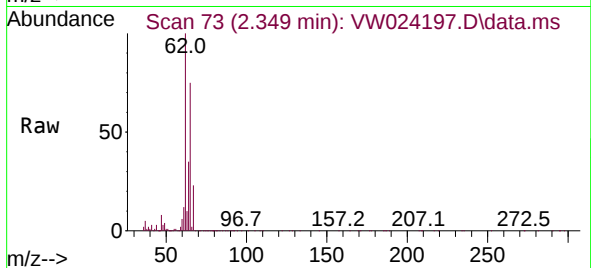




#5  
 Vinyl chloride  
 Concen: 24.506 ug/L  
 RT: 2.349 min Scan# 71  
 Delta R.T. -0.006 min  
 Lab File: VW024197.D  
 Acq: 08 Aug 2022 09:14

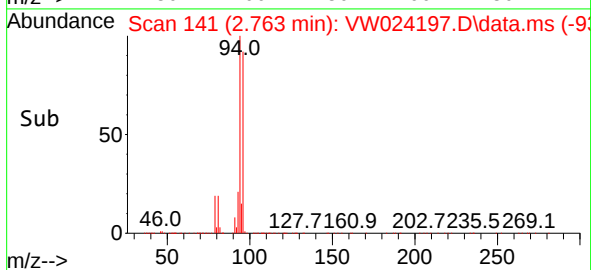
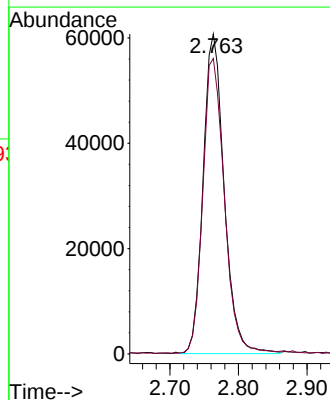
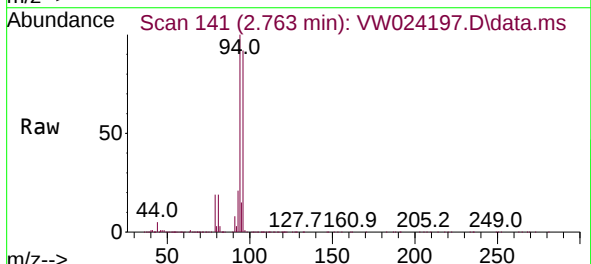
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025524

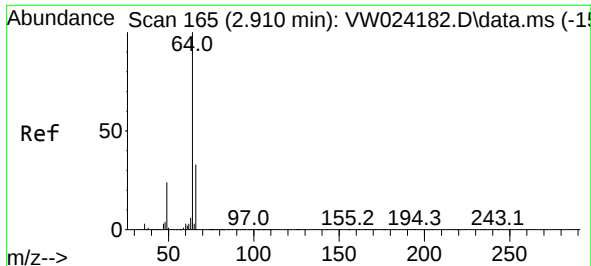
Tgt Ion: 62 Resp: 225981  
 Ion Ratio Lower Upper  
 62 100  
 64 35.0 22.7 42.3



#6  
 Bromomethane  
 Concen: 24.559 ug/L  
 RT: 2.763 min Scan# 141  
 Delta R.T. -0.006 min  
 Lab File: VW024197.D  
 Acq: 08 Aug 2022 09:14

Tgt Ion: 94 Resp: 129850  
 Ion Ratio Lower Upper  
 94 100  
 96 92.3 61.0 113.4

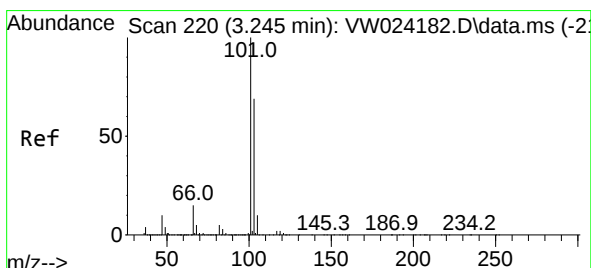
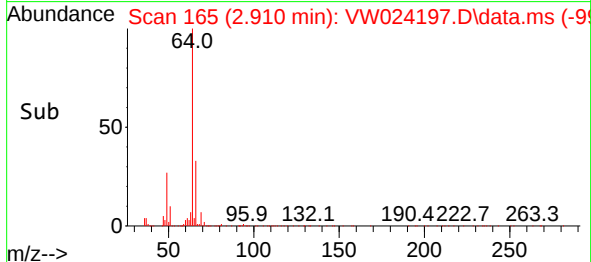
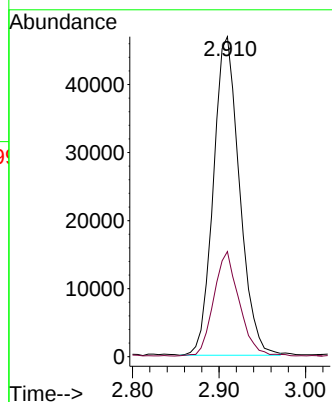
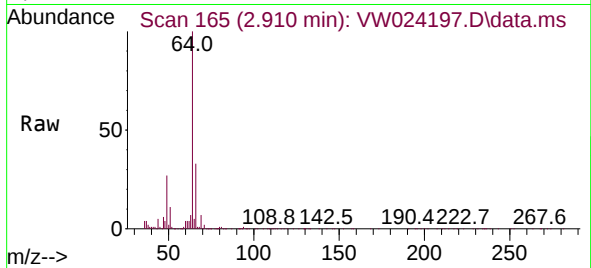




#8  
Chloroethane  
Concen: 24.307 ug/L  
RT: 2.910 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

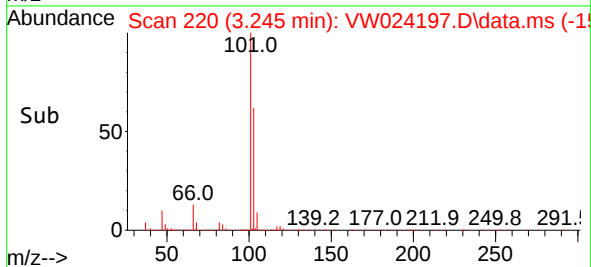
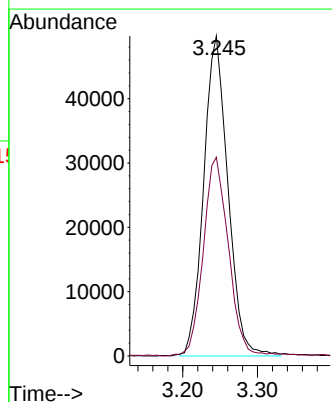
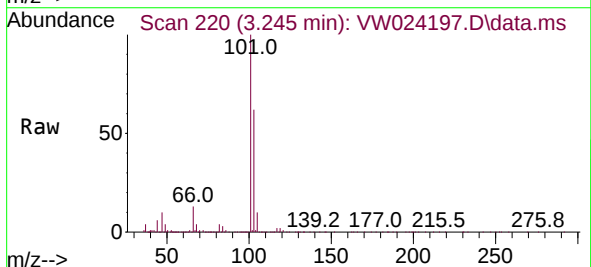
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ClientSampleId :  
VSTD025524

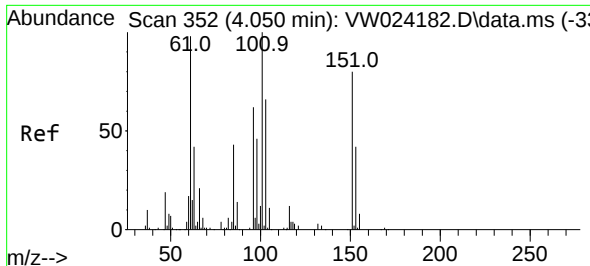
Tgt Ion: 64 Resp: 98181  
Ion Ratio Lower Upper  
64 100  
66 32.8 21.6 40.0



#9  
Trichlorofluoromethane  
Concen: 25.651 ug/L  
RT: 3.245 min Scan# 220  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 101 Resp: 112125  
Ion Ratio Lower Upper  
101 100  
103 64.4 50.5 75.7

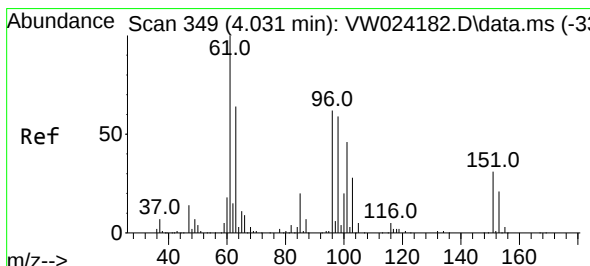
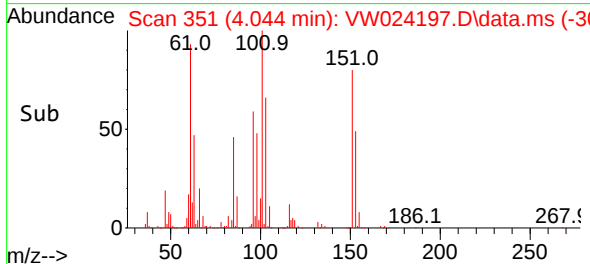
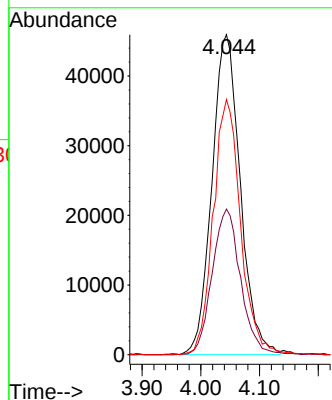
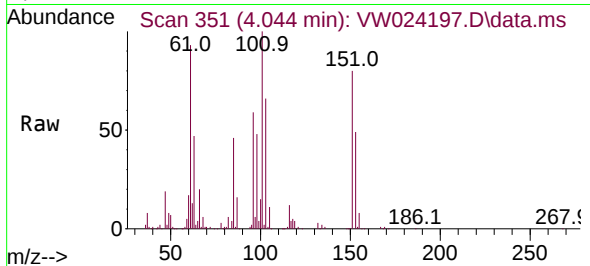




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 26.104 ug/L  
RT: 4.044 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

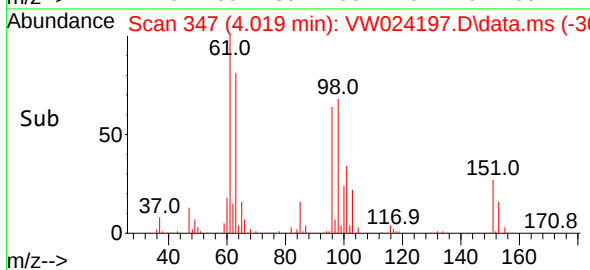
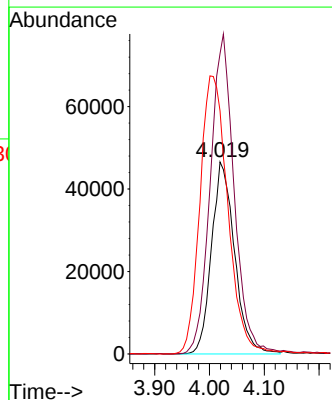
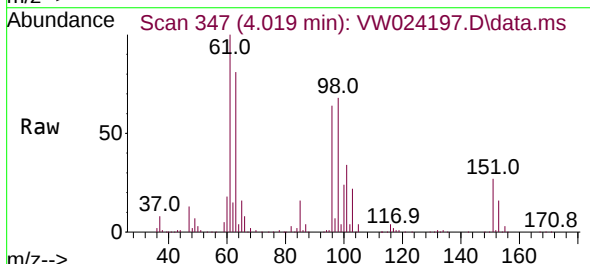
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

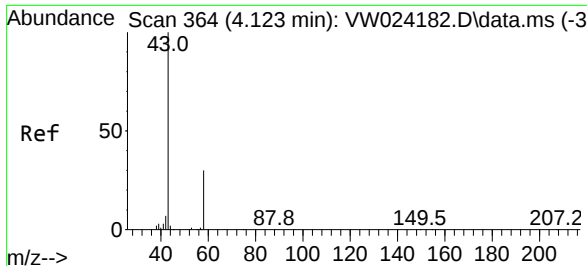
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Ion Ratio Lower Upper  
101 100  
85 45.1 34.9 52.3  
151 77.0 57.0 85.6



#12  
1,1-Dichloroethene  
Concen: 28.225 ug/L  
RT: 4.019 min Scan# 347  
Delta R.T. -0.012 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 96 Resp: 136229  
Ion Ratio Lower Upper  
96 100  
61 156.4 123.1 228.5  
63 126.6 84.9 157.7

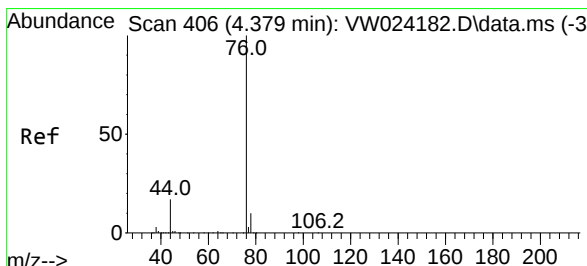
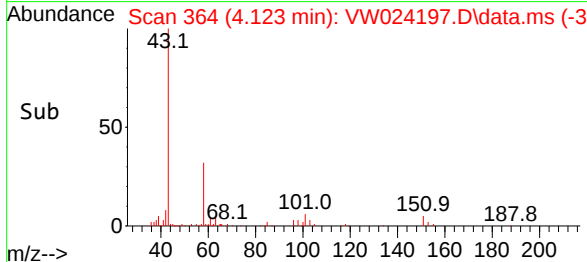
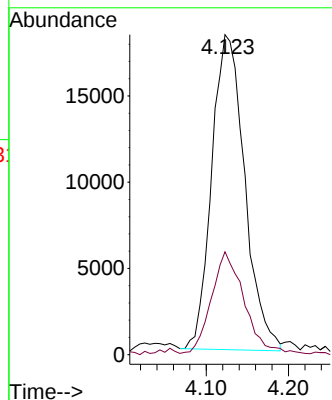
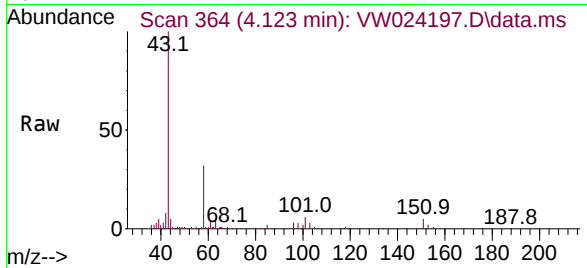




#13  
Acetone  
Concen: 44.239 ug/L  
RT: 4.123 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

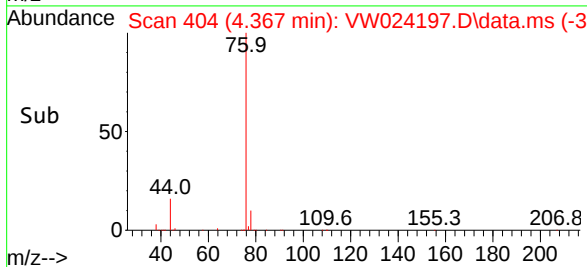
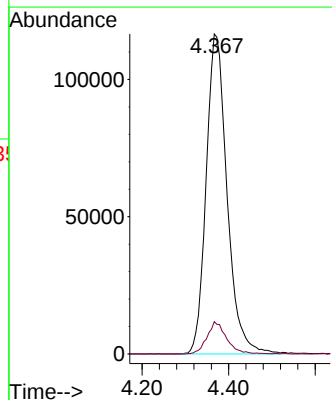
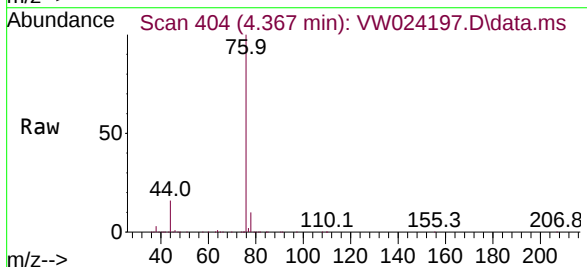
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

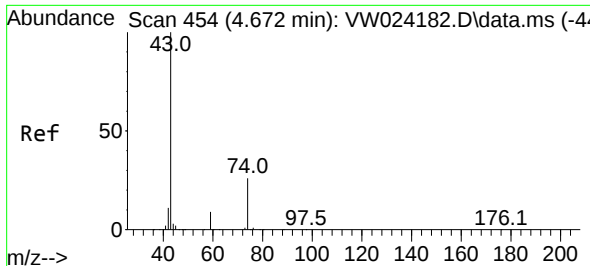
Tgt Ion: 43 Resp: 50850  
Ion Ratio Lower Upper  
43 100  
58 31.5 0.0 31.8



#14  
Carbon disulfide  
Concen: 25.289 ug/L  
RT: 4.367 min Scan# 404  
Delta R.T. -0.012 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 76 Resp: 390582  
Ion Ratio Lower Upper  
76 100  
78 10.1 7.9 11.9

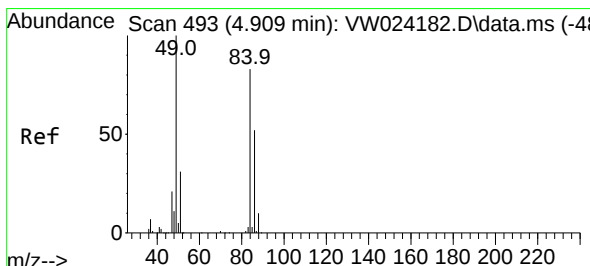
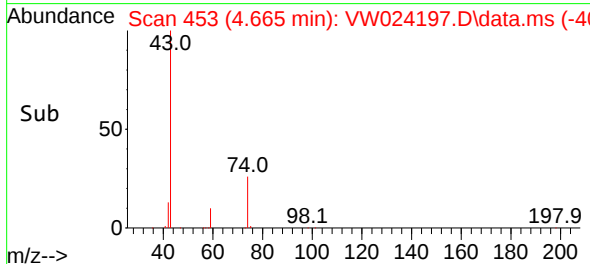
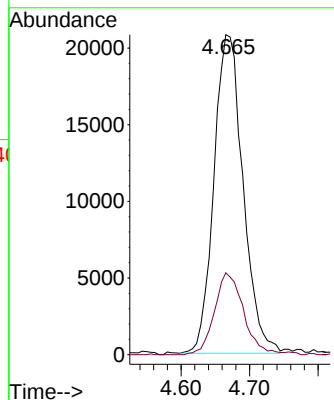
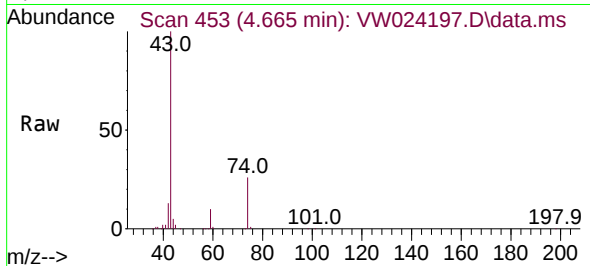




#15  
Methyl Acetate  
Concen: 23.637 ug/L  
RT: 4.665 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

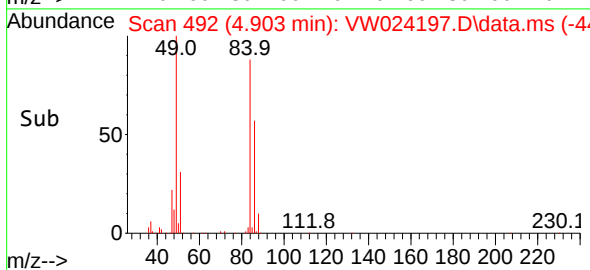
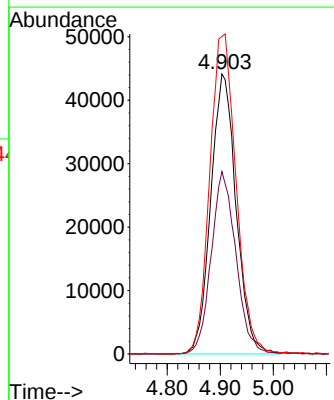
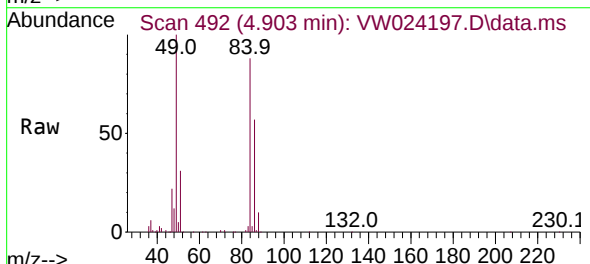
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

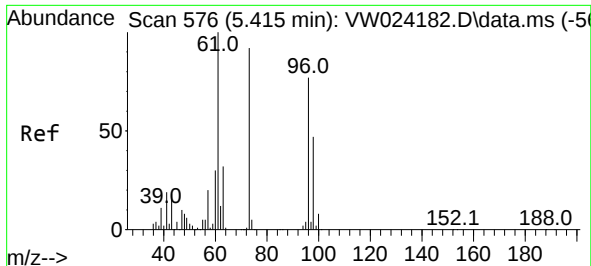
Tgt Ion: 43 Resp: 61197  
Ion Ratio Lower Upper  
43 100  
74 25.6 21.5 32.3



#16  
Methylene chloride  
Concen: 20.718 ug/L  
RT: 4.903 min Scan# 492  
Delta R.T. -0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 84 Resp: 146680  
Ion Ratio Lower Upper  
84 100  
86 65.1 42.8 79.6  
49 113.4 85.3 158.3





#17

trans-1,2-Dichloroethene

Concen: 26.350 ug/L

RT: 5.415 min Scan# 576

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025524

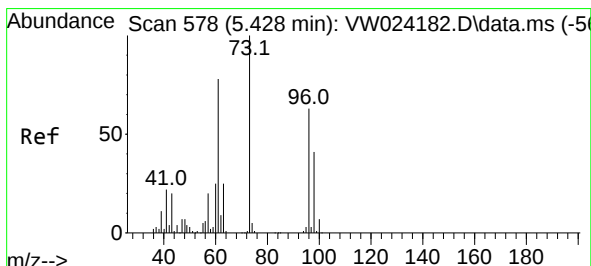
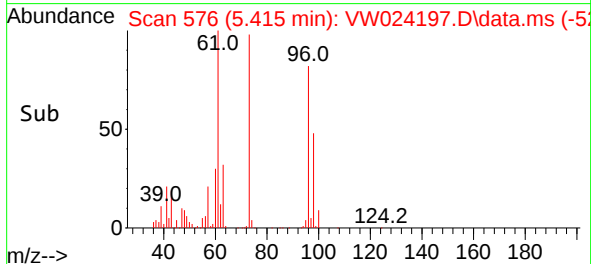
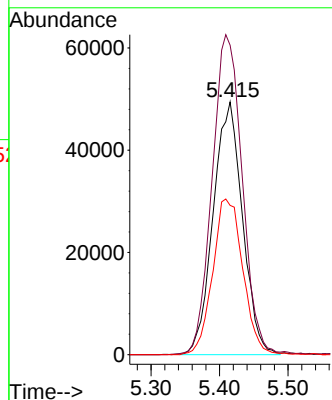
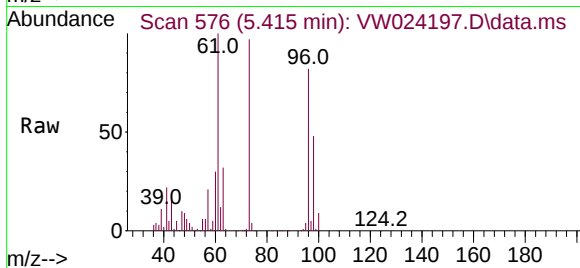
Tgt Ion: 96 Resp: 146869

Ion Ratio Lower Upper

96 100

61 122.4 93.0 172.8

98 59.0 48.5 90.1



#18

Methyl tert-butyl Ether

Concen: 27.536 ug/L

RT: 5.427 min Scan# 578

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

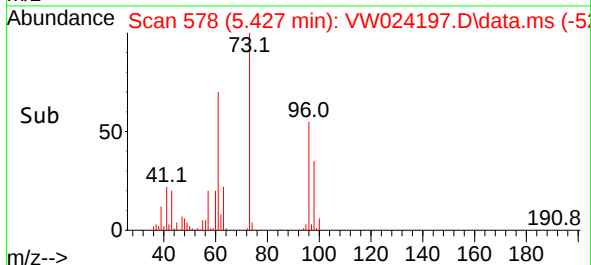
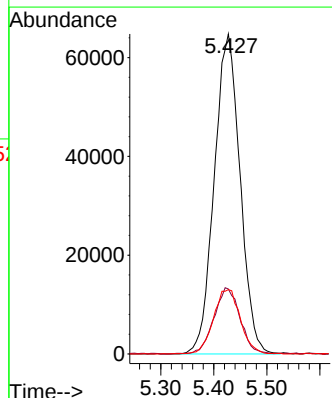
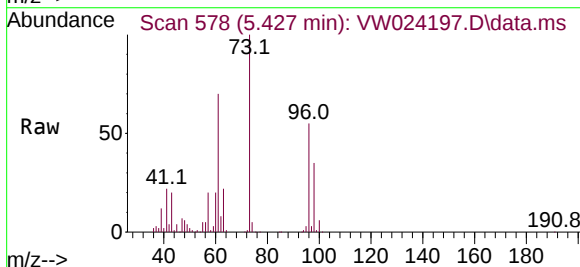
Tgt Ion: 73 Resp: 218855

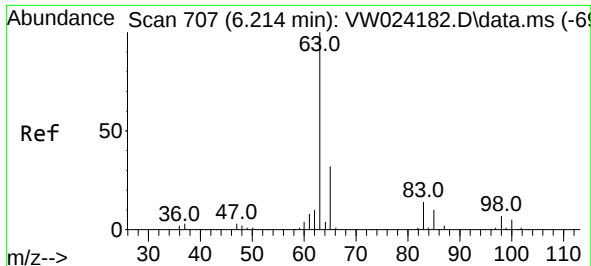
Ion Ratio Lower Upper

73 100

43 20.5 16.6 24.8

57 21.0 17.6 26.4

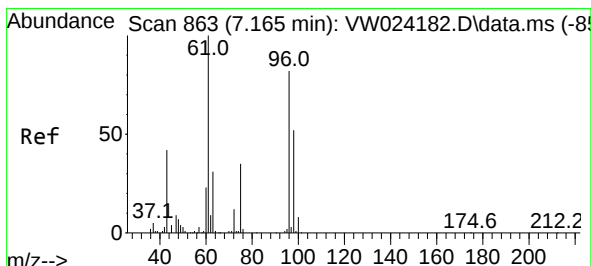
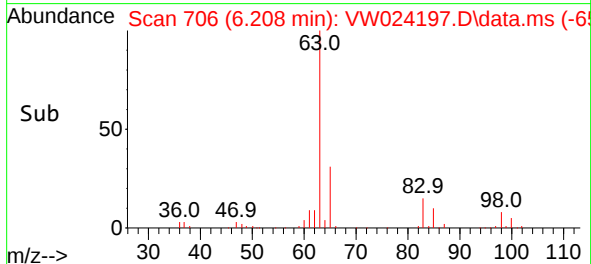
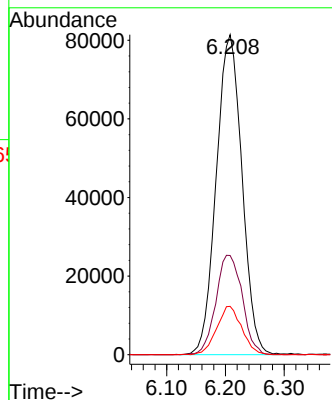
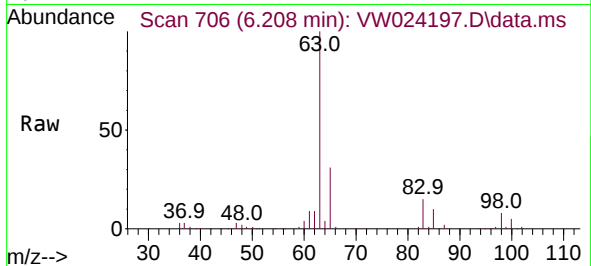




#19  
1,1-Dichloroethane  
Concen: 25.240 ug/L  
RT: 6.208 min Scan# 707  
Delta R.T. -0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

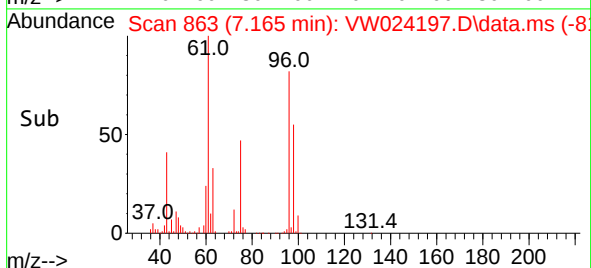
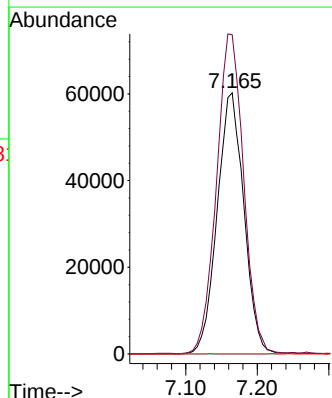
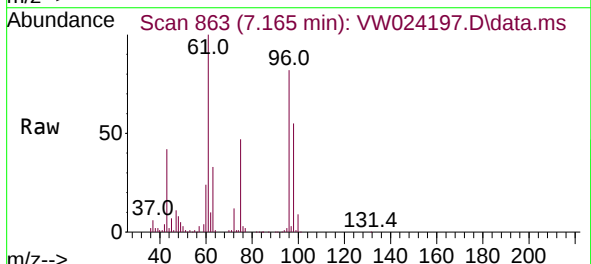
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

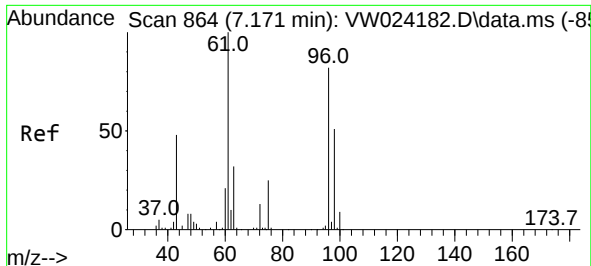
Tgt Ion: 63 Resp: 247811  
Ion Ratio Lower Upper  
63 100  
65 31.0 22.0 41.0  
83 15.1 9.2 17.0



#20  
cis-1,2-Dichloroethene  
Concen: 25.486 ug/L  
RT: 7.165 min Scan# 863  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 96 Resp: 156004  
Ion Ratio Lower Upper  
96 100  
61 122.3 89.5 166.3  
68 0.0 0.1 0.1#

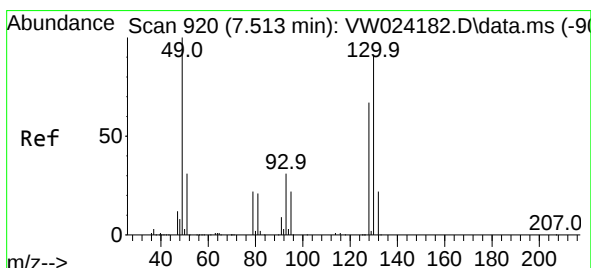
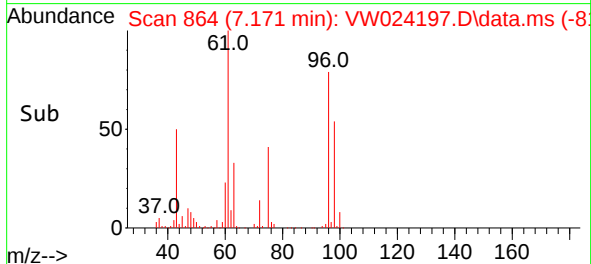
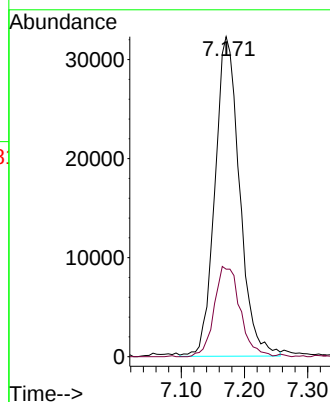
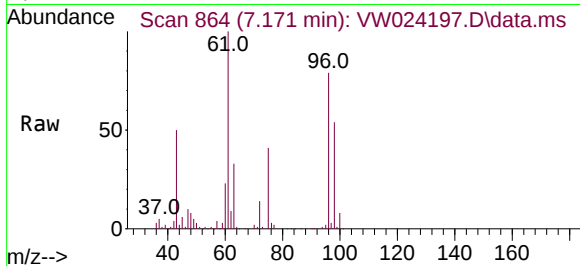




#22  
2-Butanone  
Concen: 45.047 ug/L  
RT: 7.171 min Scan# 864  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

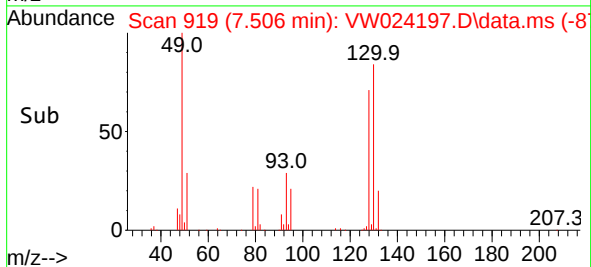
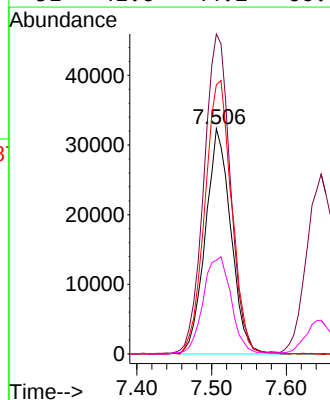
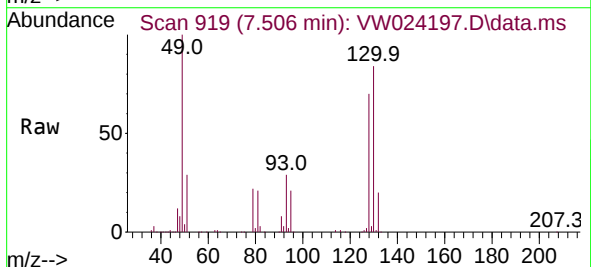
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

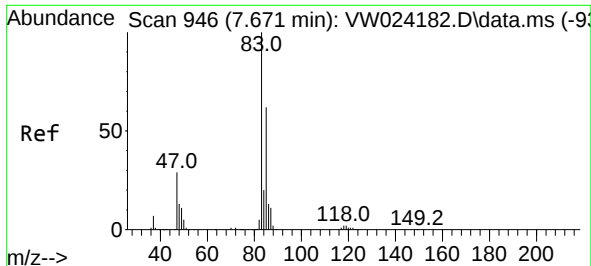
Tgt Ion: 43 Resp: 87252  
Ion Ratio Lower Upper  
43 100  
72 29.6 14.3 42.9



#23  
Bromochloromethane  
Concen: 25.209 ug/L  
RT: 7.506 min Scan# 919  
Delta R.T. -0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 128 Resp: 76849  
Ion Ratio Lower Upper  
128 100  
49 142.0 106.6 198.0  
130 119.5 88.1 163.5  
51 41.6 44.2 66.4

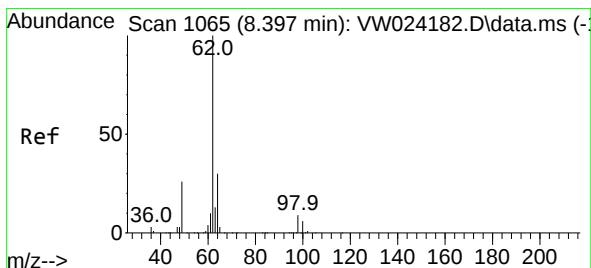
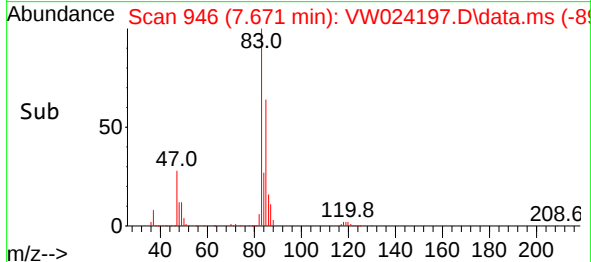
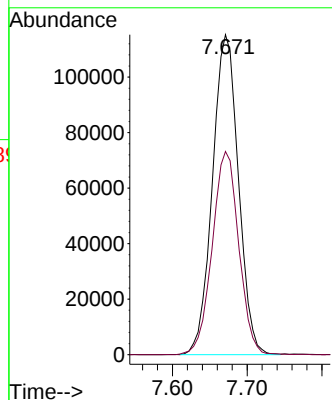
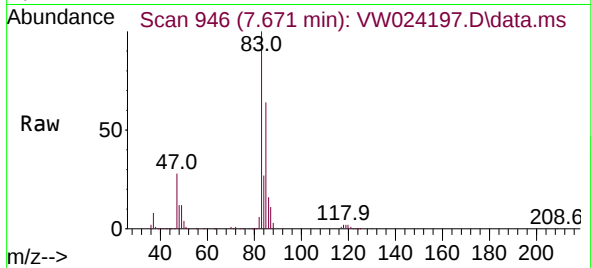




#25  
Chloroform  
Concen: 25.731 ug/L  
RT: 7.671 min Scan# 946  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

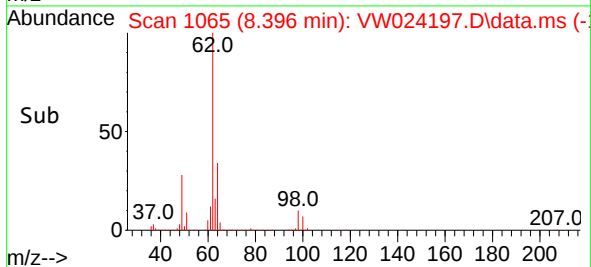
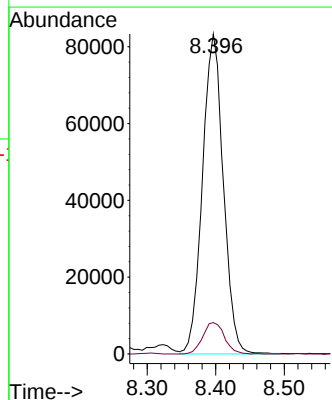
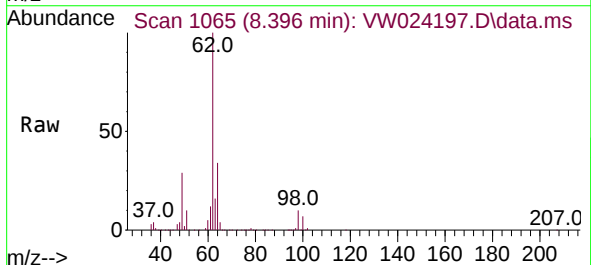
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

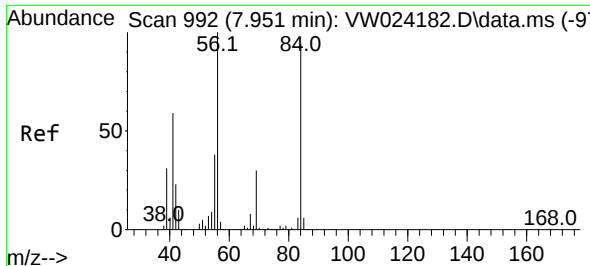
Tgt Ion: 83 Resp: 278384  
Ion Ratio Lower Upper  
83 100  
85 63.5 42.9 79.7



#27  
1,2-Dichloroethane  
Concen: 24.300 ug/L  
RT: 8.396 min Scan# 1065  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

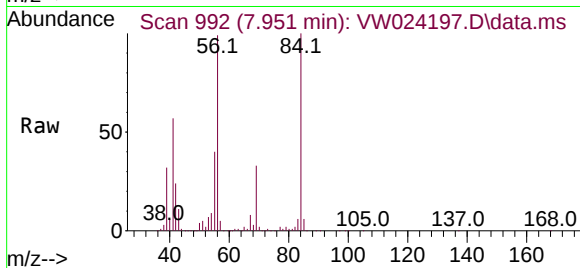
Tgt Ion: 62 Resp: 176907  
Ion Ratio Lower Upper  
62 100  
98 9.8 7.4 11.0



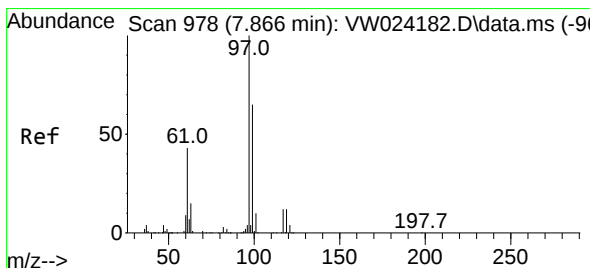
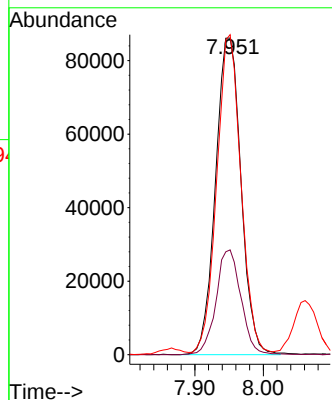
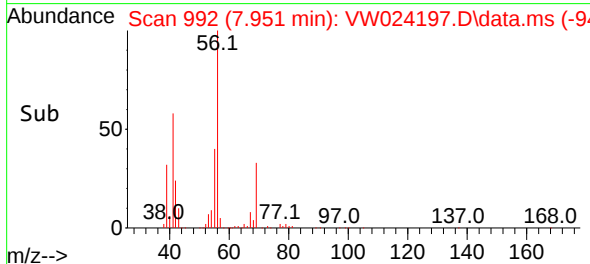


#29  
Cyclohexane  
Concen: 28.781 ug/L  
RT: 7.951 min Scan# 992  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

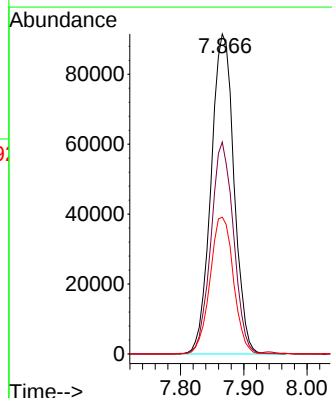
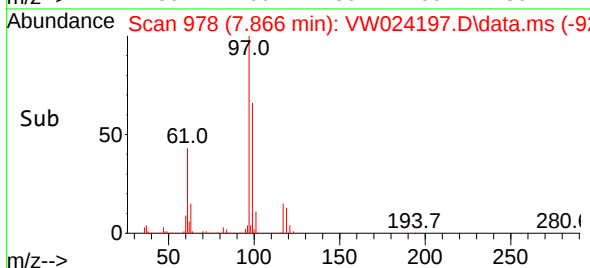
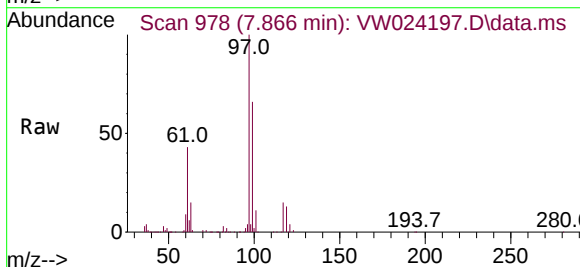


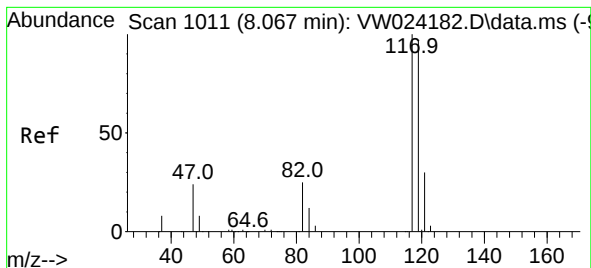
Tgt Ion: 56 Resp: 222144  
Ion Ratio Lower Upper  
56 100  
69 32.2 24.5 36.7  
84 96.4 75.5 113.3



#30  
1,1,1-Trichloroethane  
Concen: 27.189 ug/L  
RT: 7.866 min Scan# 978  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 97 Resp: 230841  
Ion Ratio Lower Upper  
97 100  
99 65.2 51.0 76.6  
61 43.7 36.2 54.2

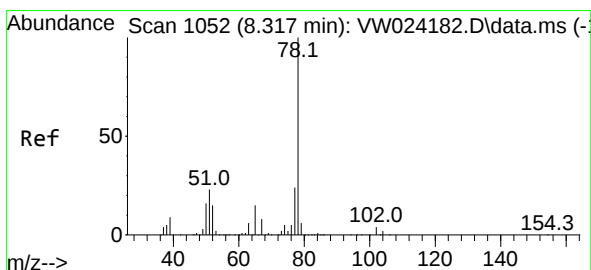
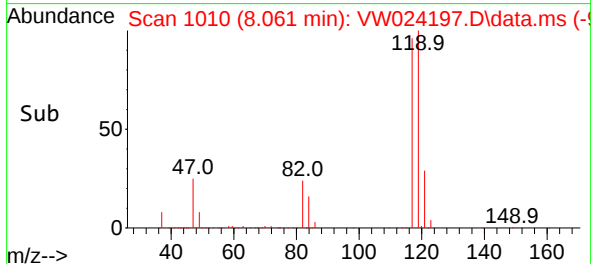
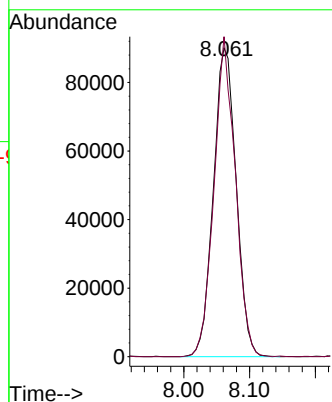
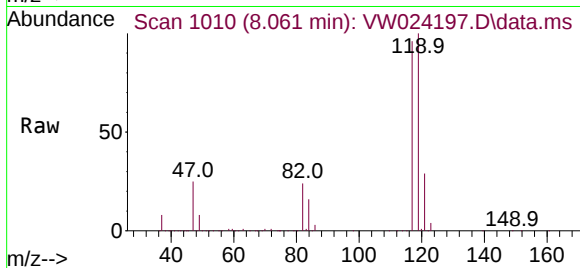




#31  
Carbon tetrachloride  
Concen: 27.168 ug/L  
RT: 8.061 min Scan# 1011  
Delta R.T. -0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

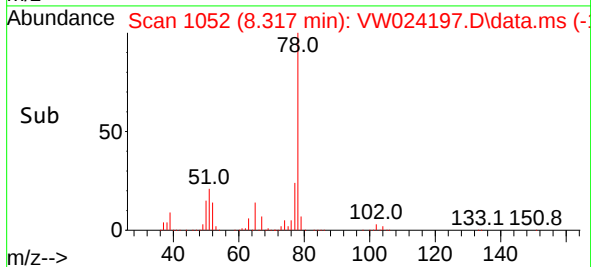
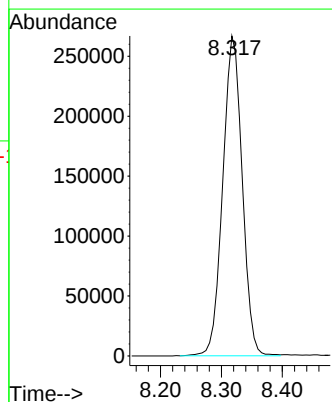
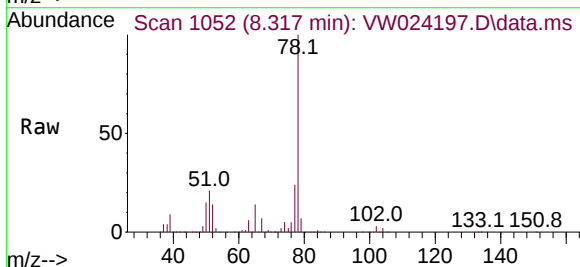
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

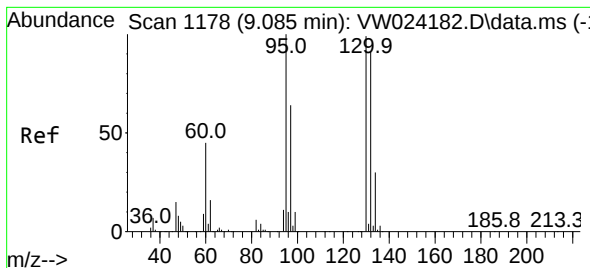
Tgt Ion:117 Resp: 217610  
Ion Ratio Lower Upper  
117 100  
119 96.6 77.8 116.8



#33  
Benzene  
Concen: 26.610 ug/L  
RT: 8.317 min Scan# 1052  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 78 Resp: 591701





#34

Trichloroethene

Concen: 26.695 ug/L

RT: 9.085 min Scan# 1178

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025524

Tgt Ion: 95 Resp: 156893

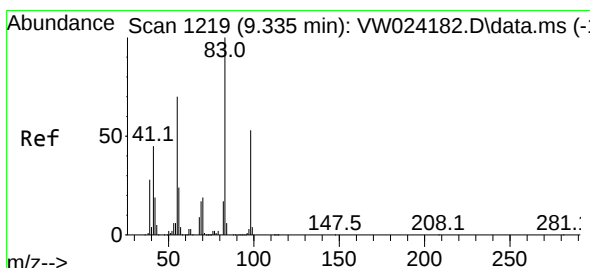
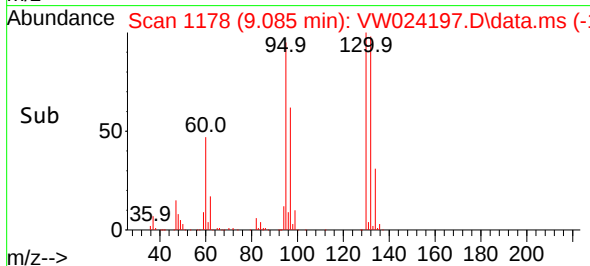
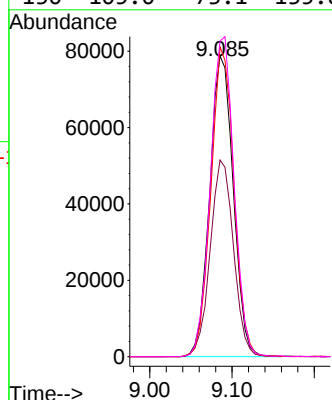
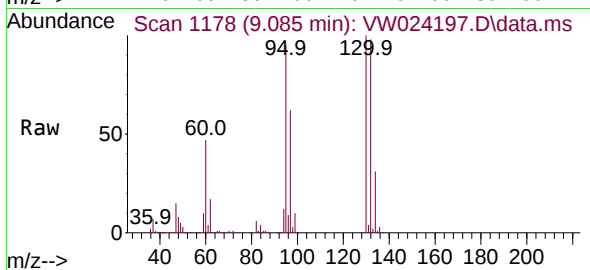
Ion Ratio Lower Upper

95 100

97 65.4 41.6 77.2

132 103.0 67.0 124.4

130 105.0 73.1 135.8



#35

Methylcyclohexane

Concen: 29.324 ug/L

RT: 9.329 min Scan# 1218

Delta R.T. -0.006 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

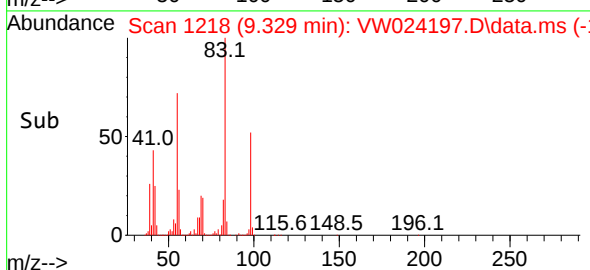
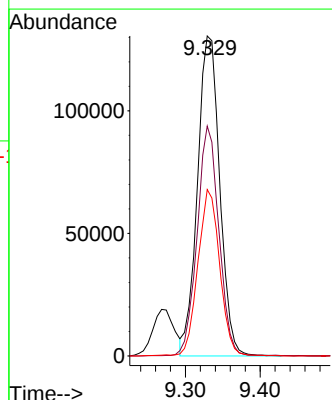
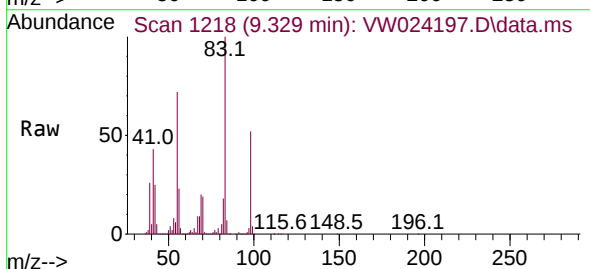
Tgt Ion: 83 Resp: 270260

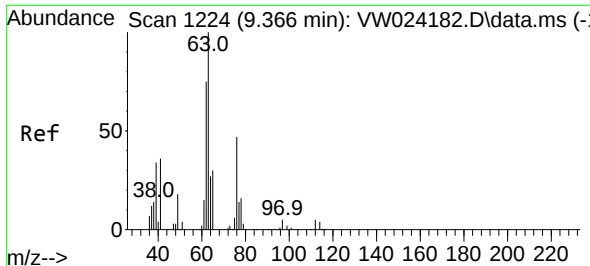
Ion Ratio Lower Upper

83 100

55 70.0 59.1 88.7

98 50.5 40.8 61.2





#37

1,2-Dichloropropane

Concen: 25.991 ug/L

RT: 9.366 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

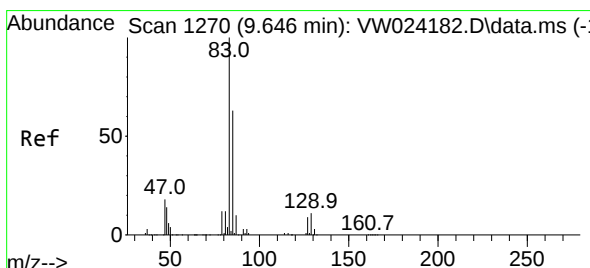
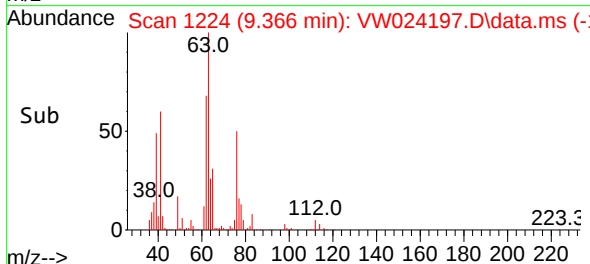
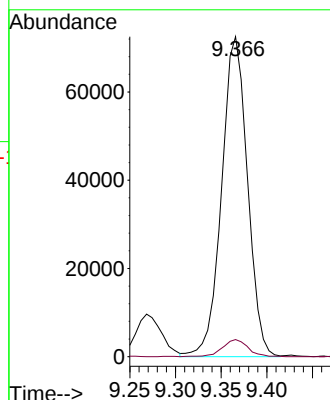
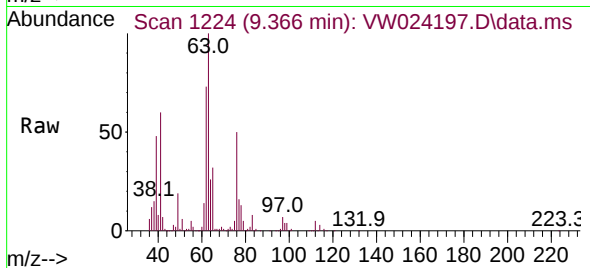
VSTD025524

Tgt Ion: 63 Resp: 142862

Ion Ratio Lower Upper

63 100

112 4.9 3.8 5.6



#38

Bromodichloromethane

Concen: 25.867 ug/L

RT: 9.640 min Scan# 1269

Delta R.T. -0.006 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

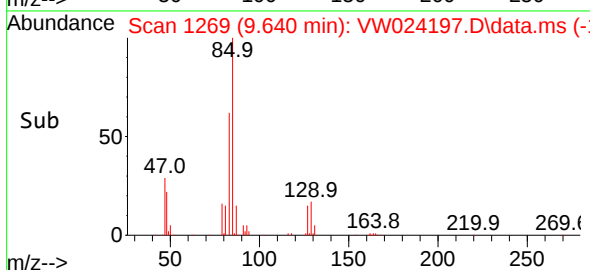
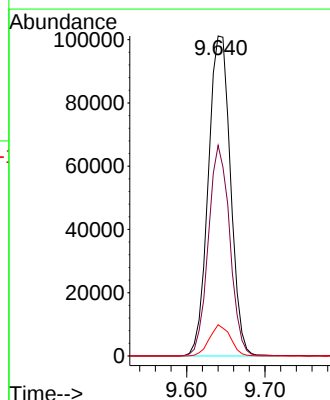
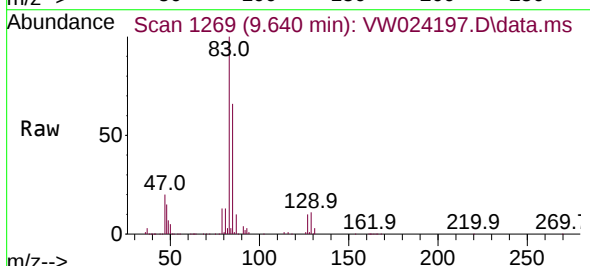
Tgt Ion: 83 Resp: 199421

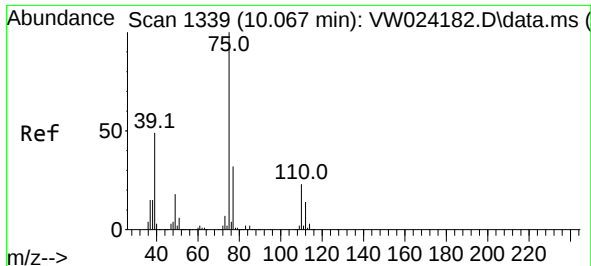
Ion Ratio Lower Upper

83 100

85 65.8 43.7 81.1

127 9.7 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 28.388 ug/L

RT: 10.067 min Scan# 1339

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

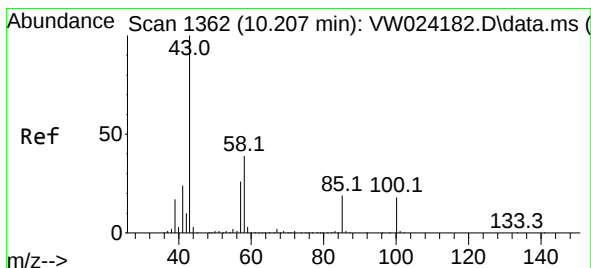
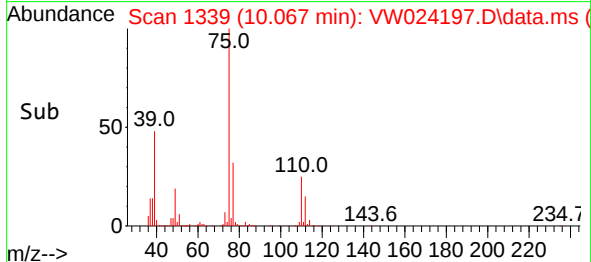
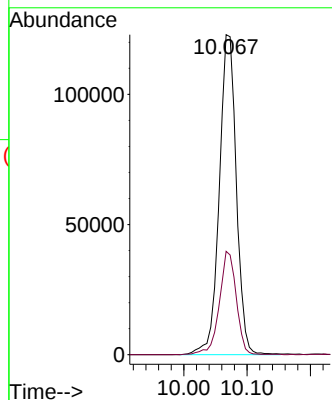
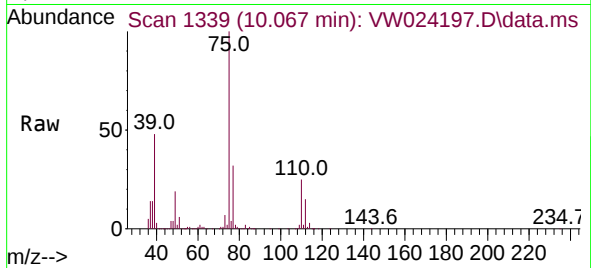
VSTD025524

Tgt Ion: 75 Resp: 229565

Ion Ratio Lower Upper

75 100

77 32.3 23.4 43.6



#40

4-Methyl-2-pentanone

Concen: 52.109 ug/L

RT: 10.207 min Scan# 1362

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

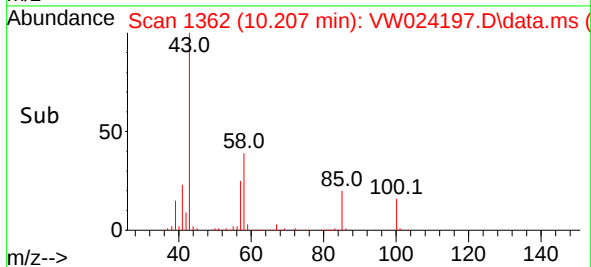
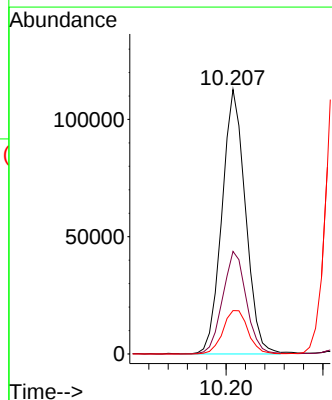
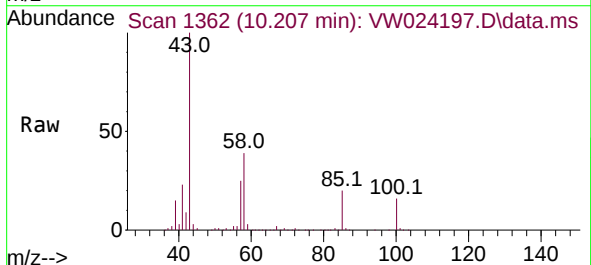
Tgt Ion: 43 Resp: 190094

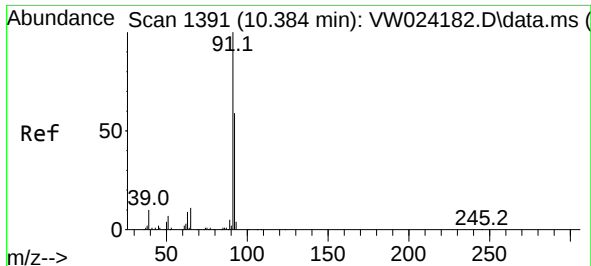
Ion Ratio Lower Upper

43 100

58 39.1 30.5 45.7

100 17.5 13.8 20.6

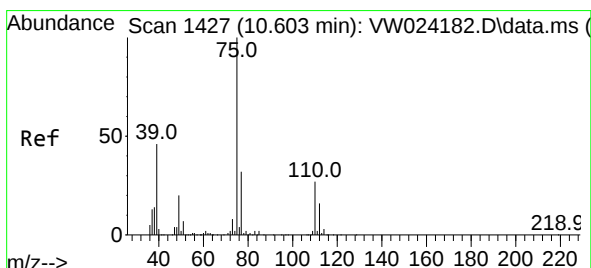
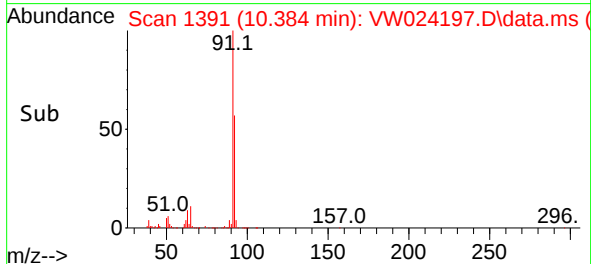
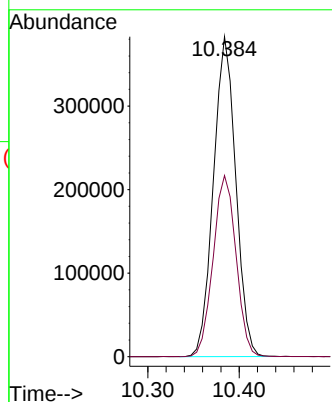
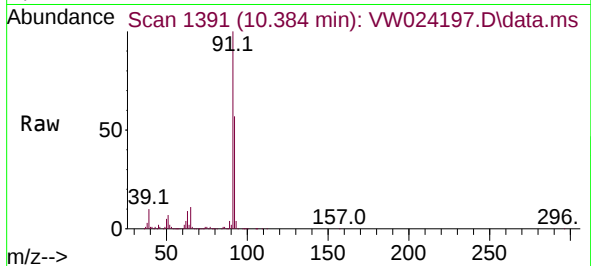




#42  
Toluene  
Concen: 27.528 ug/L  
RT: 10.384 min Scan# 1391  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

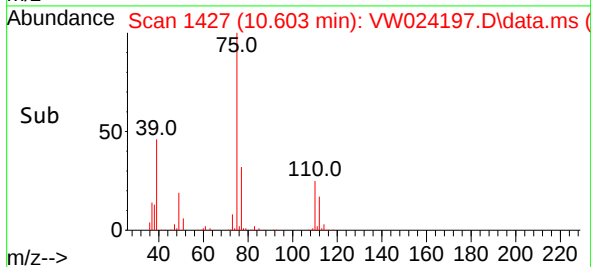
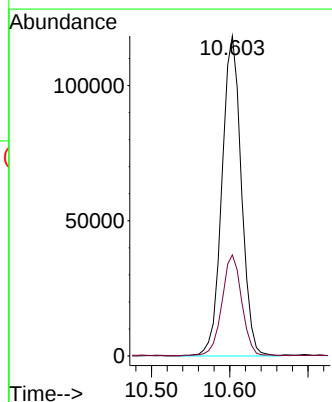
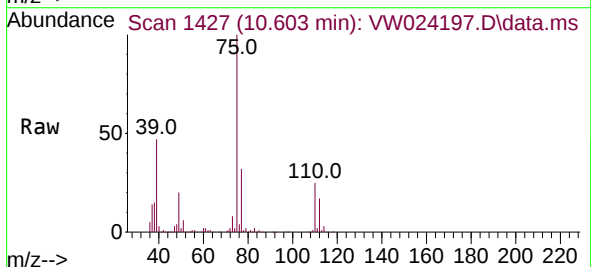
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

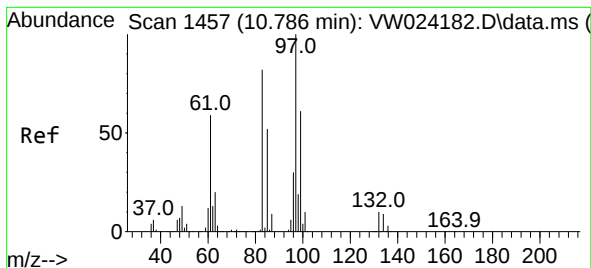
Tgt Ion: 91 Resp: 650464  
Ion Ratio Lower Upper  
91 100  
92 56.6 41.4 77.0



#44  
trans-1,3-Dichloropropene  
Concen: 27.610 ug/L  
RT: 10.603 min Scan# 1427  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 75 Resp: 204009  
Ion Ratio Lower Upper  
75 100  
77 31.6 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 25.227 ug/L

RT: 10.786 min Scan# 1457

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025524

Tgt Ion: 97 Resp: 116876

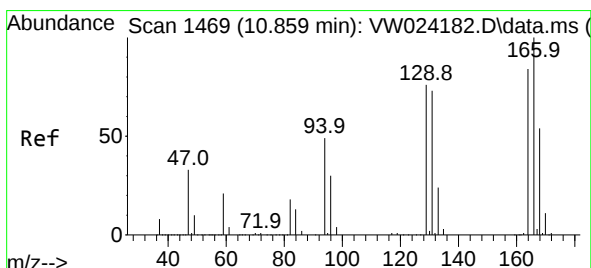
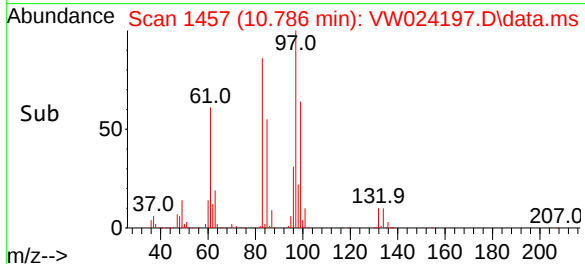
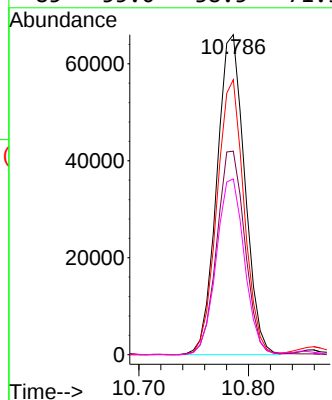
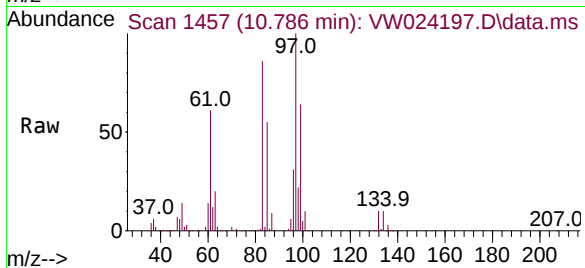
Ion Ratio Lower Upper

97 100

99 63.6 43.8 81.3

83 86.0 56.4 104.7

85 55.0 38.5 71.5



#46

Tetrachloroethene

Concen: 27.432 ug/L

RT: 10.859 min Scan# 1469

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Tgt Ion:164 Resp: 130525

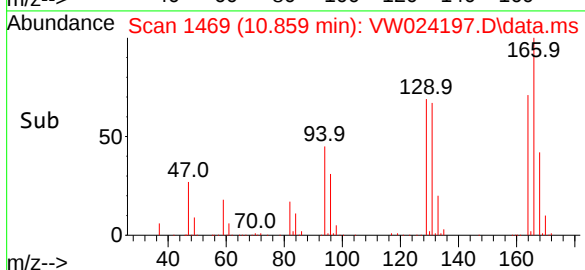
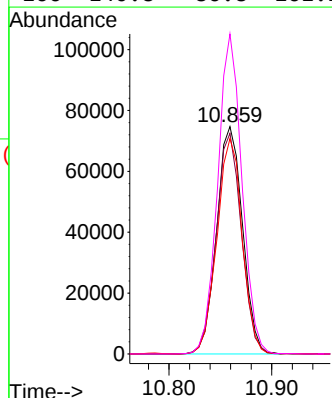
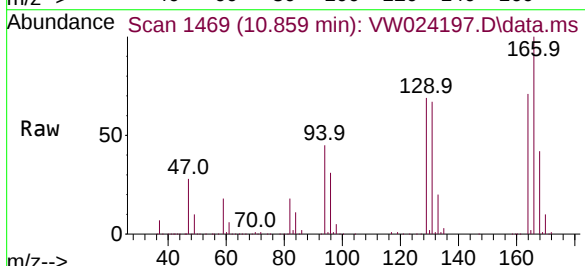
Ion Ratio Lower Upper

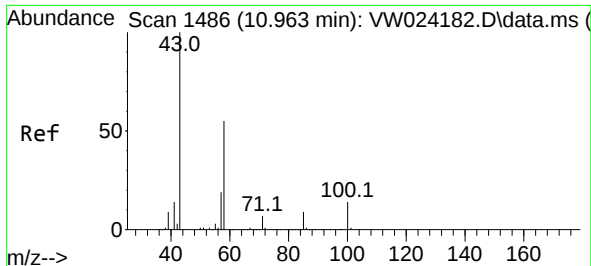
164 100

129 97.0 63.1 117.3

131 94.7 63.9 118.7

166 140.8 86.8 161.2

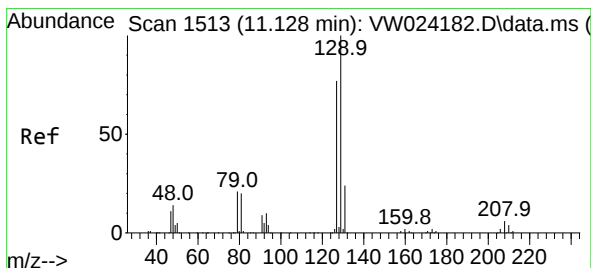
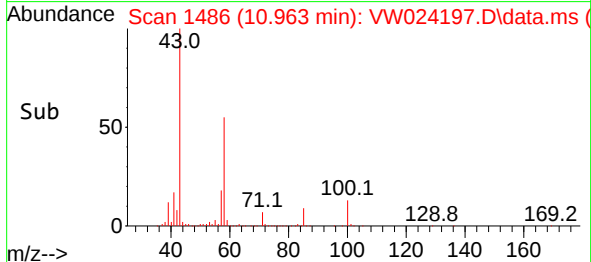
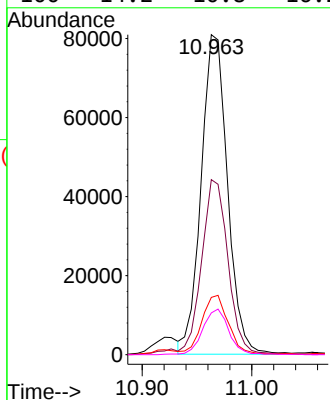
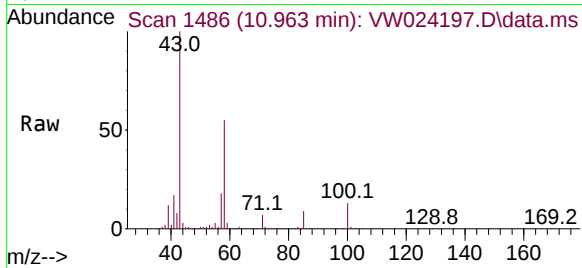




#48  
2-Hexanone  
Concen: 54.631 ug/L  
RT: 10.963 min Scan# 1486  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

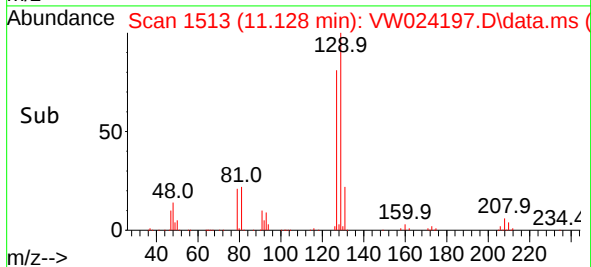
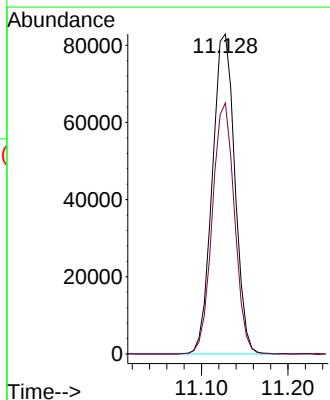
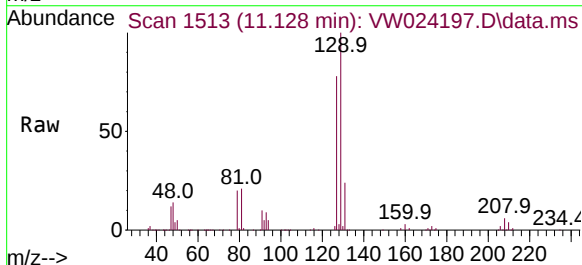
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

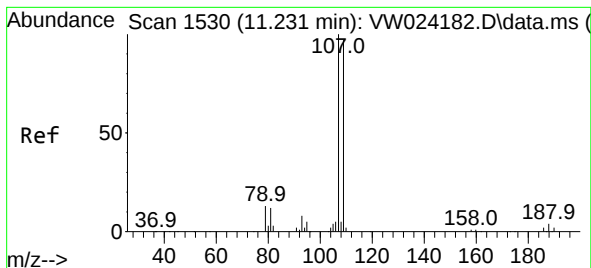
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 135250 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 58 54.6     | 43.4 65.0    |
| 57 18.5     | 15.0 22.4    |
| 100 14.2    | 10.8 16.2    |



#49  
Dibromochloromethane  
Concen: 26.830 ug/L  
RT: 11.128 min Scan# 1513  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

|             |              |       |  |
|-------------|--------------|-------|--|
| Tgt Ion:129 | Resp: 149642 |       |  |
| Ion Ratio   | Lower        | Upper |  |
| 129 100     |              |       |  |
| 127 78.4    | 52.3         | 97.1  |  |

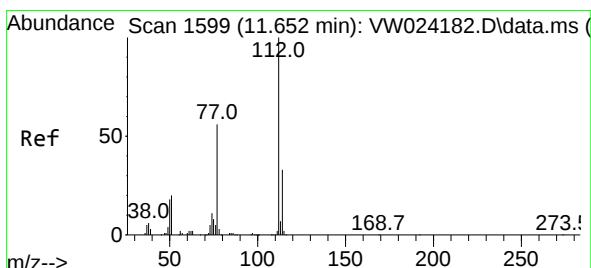
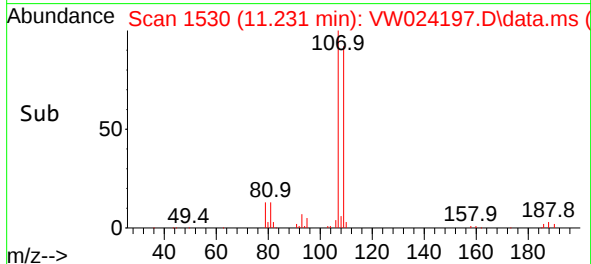
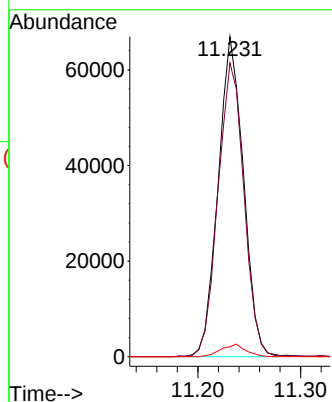
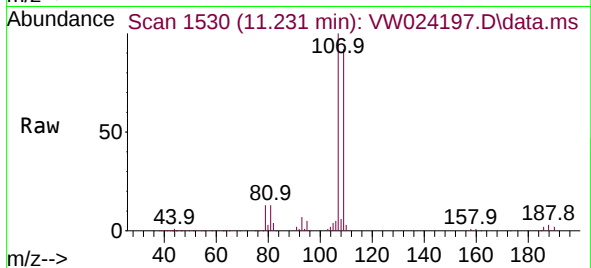




#50  
1,2-Dibromoethane  
Concen: 25.741 ug/L  
RT: 11.231 min Scan# 1530  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

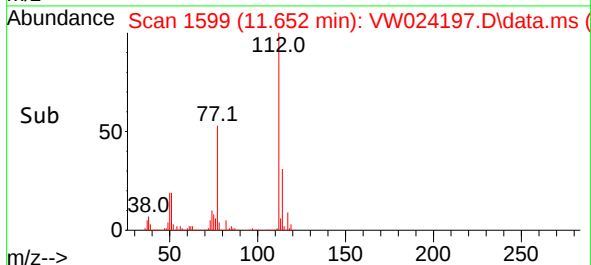
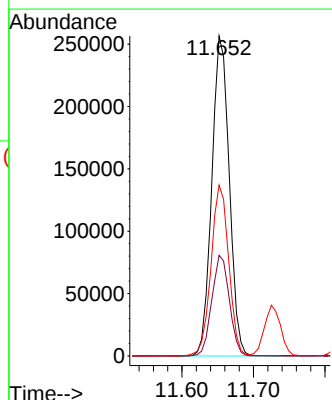
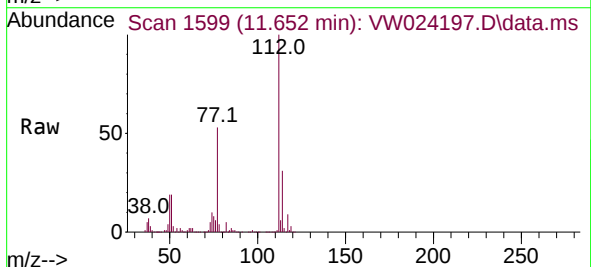
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

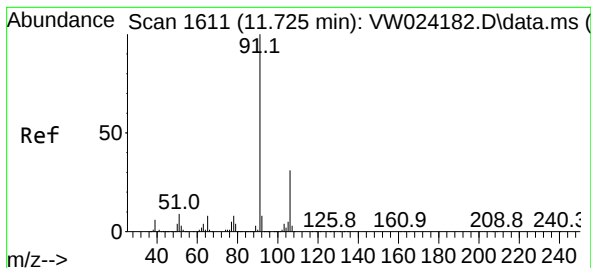
Tgt Ion:107 Resp: 114260  
Ion Ratio Lower Upper  
107 100  
109 91.8 64.0 119.0  
188 3.1 3.1 4.7#



#51  
Chlorobenzene  
Concen: 26.880 ug/L  
RT: 11.652 min Scan# 1599  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion:112 Resp: 433963  
Ion Ratio Lower Upper  
112 100  
114 31.5 20.7 38.5  
77 53.4 41.4 62.2

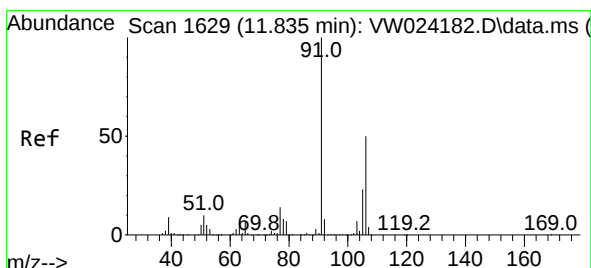
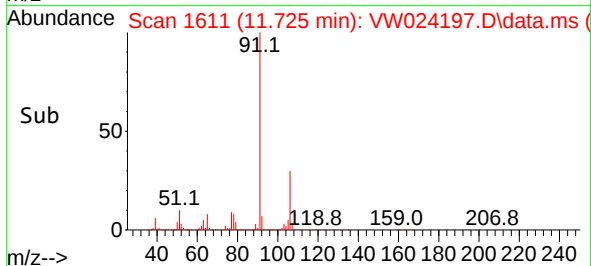
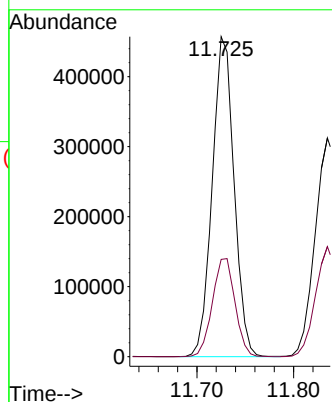
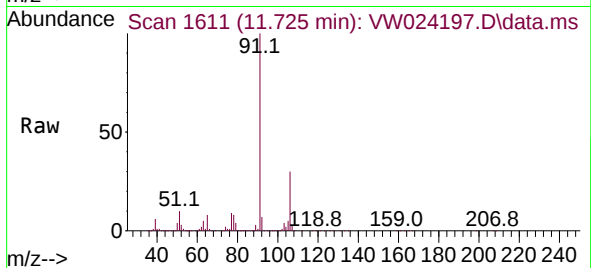




#52  
Ethylbenzene  
Concen: 27.688 ug/L  
RT: 11.725 min Scan# 1611  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

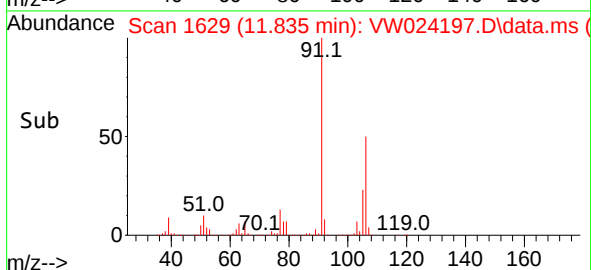
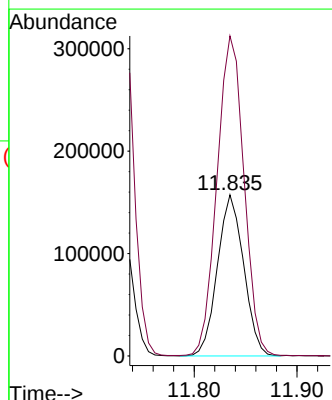
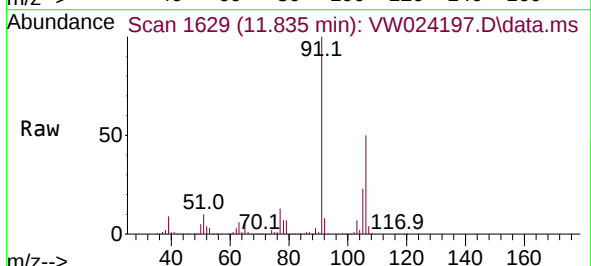
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

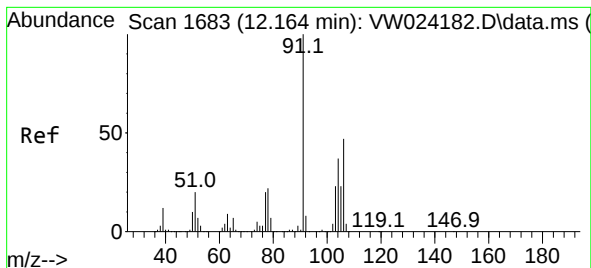
Tgt Ion: 91 Resp: 716788  
Ion Ratio Lower Upper  
91 100  
106 30.4 21.9 40.7



#53  
m,p-Xylene  
Concen: 27.640 ug/L  
RT: 11.835 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion: 106 Resp: 278535  
Ion Ratio Lower Upper  
106 100  
91 198.6 144.1 267.7





#54

o-Xylene

Concen: 28.335 ug/L

RT: 12.164 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

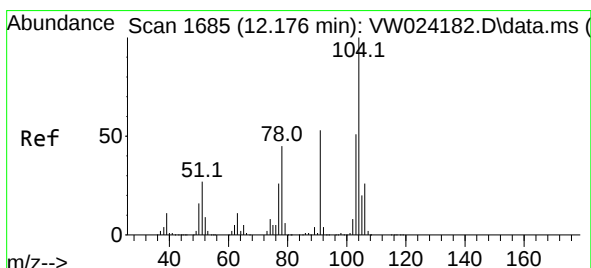
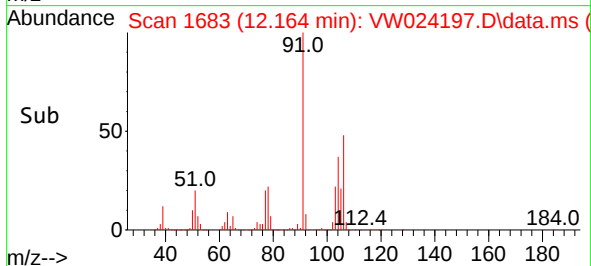
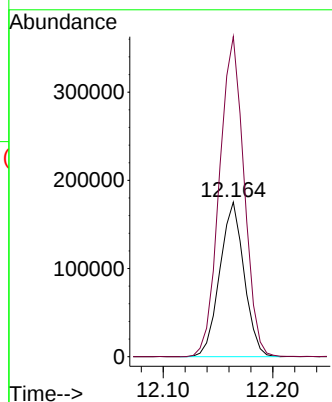
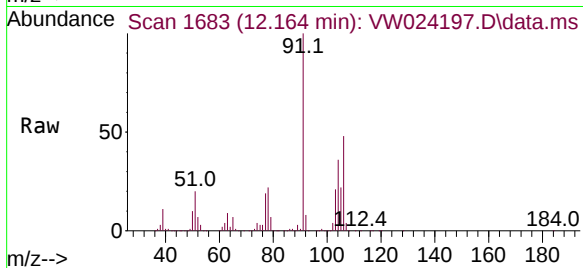
VSTD025524

Tgt Ion:106 Resp: 269756

Ion Ratio Lower Upper

106 100

91 207.0 150.9 280.3



#55

Styrene

Concen: 28.433 ug/L

RT: 12.176 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VW024197.D

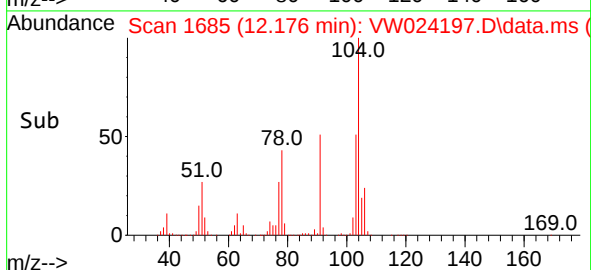
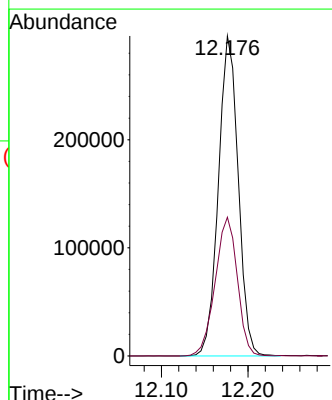
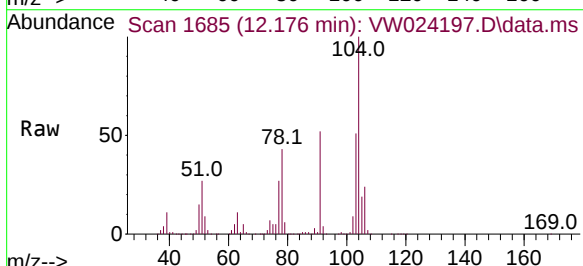
Acq: 08 Aug 2022 09:14

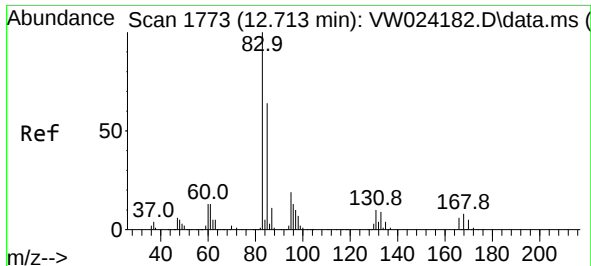
Tgt Ion:104 Resp: 470784

Ion Ratio Lower Upper

104 100

78 43.3 31.1 57.7





#57

1,1,2,2-Tetrachloroethane

Concen: 24.875 ug/L

RT: 12.713 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025524

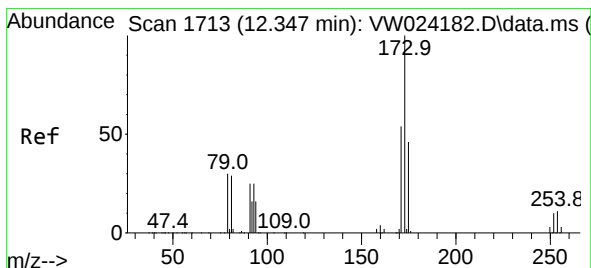
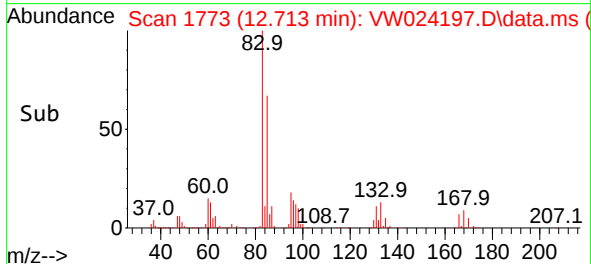
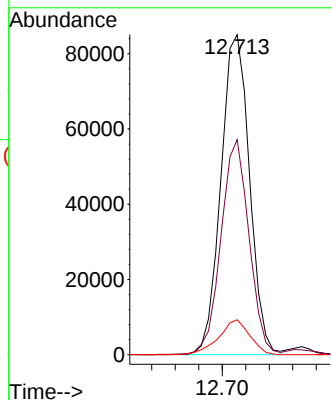
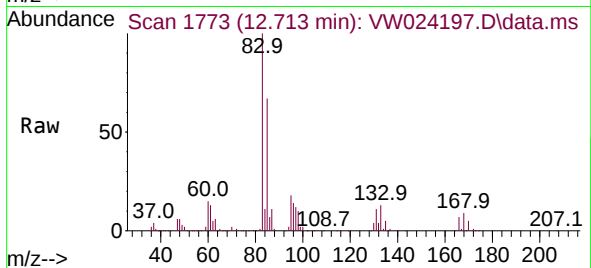
Tgt Ion: 83 Resp: 144028

Ion Ratio Lower Upper

83 100

85 67.2 44.1 81.9

131 10.9 8.3 12.5



#59

Bromoform

Concen: 25.020 ug/L

RT: 12.347 min Scan# 1713

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

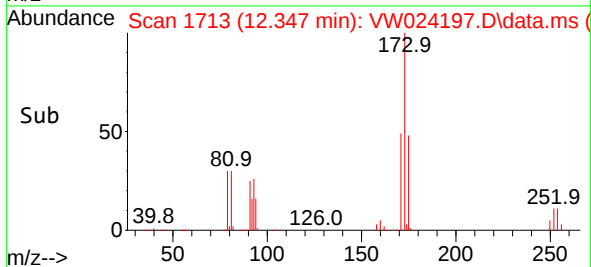
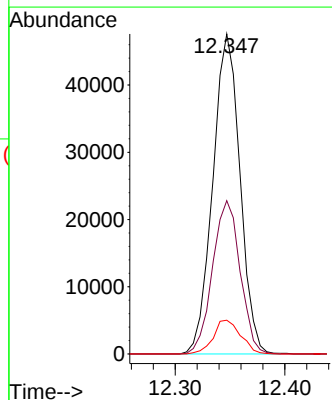
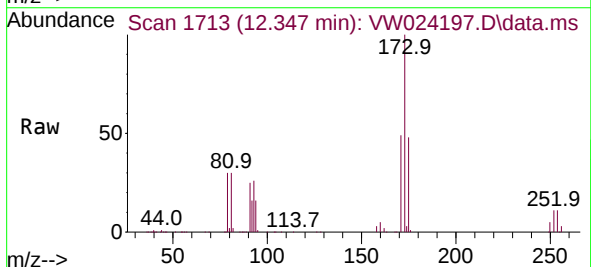
Tgt Ion: 173 Resp: 81991

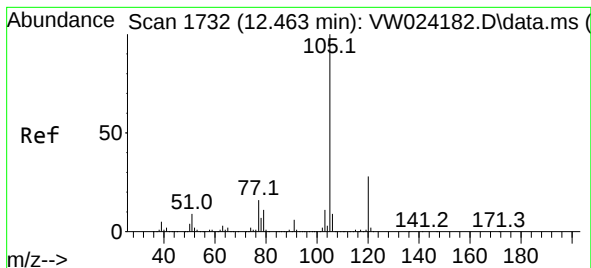
Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.6

254 10.7 6.8 10.2#





#60

Isopropylbenzene

Concen: 27.932 ug/L

RT: 12.463 min Scan# 1732

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025524

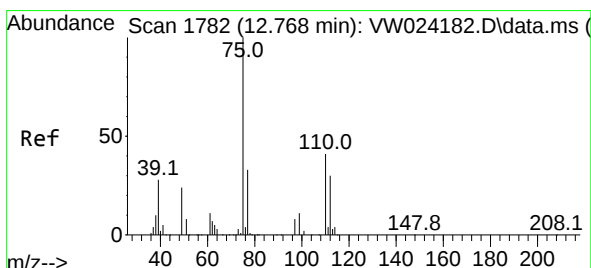
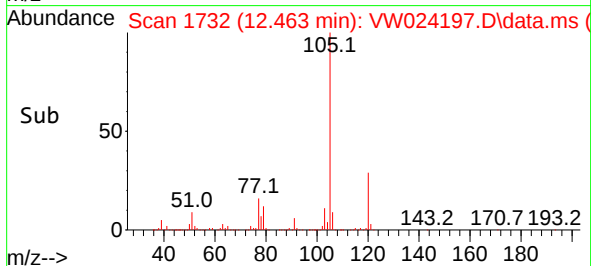
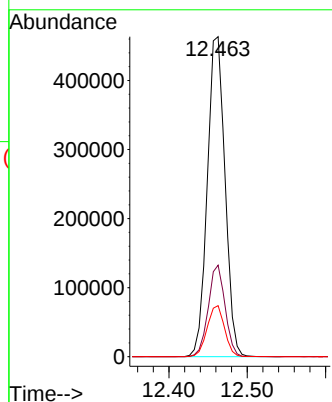
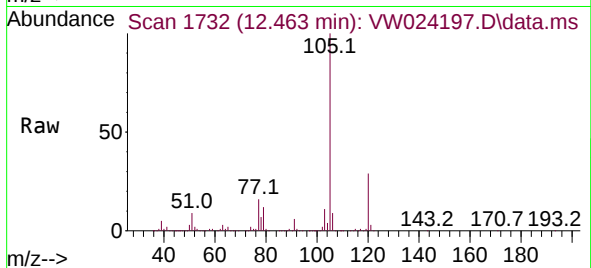
Tgt Ion:105 Resp: 726445

Ion Ratio Lower Upper

105 100

120 27.2 21.4 32.2

77 15.6 12.4 18.6



#61

1,2,3-Trichloropropane

Concen: 23.746 ug/L

RT: 12.768 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

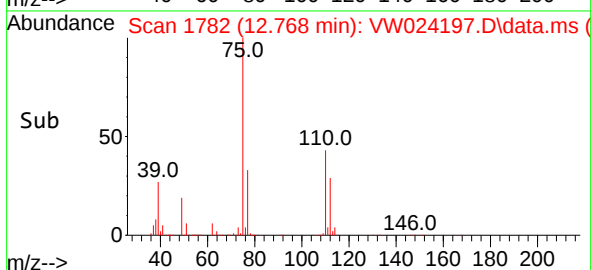
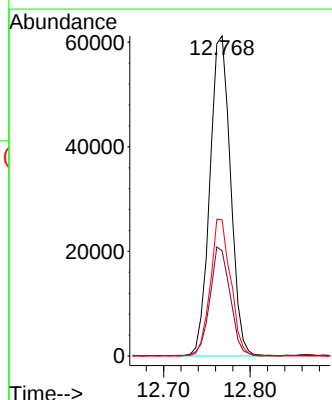
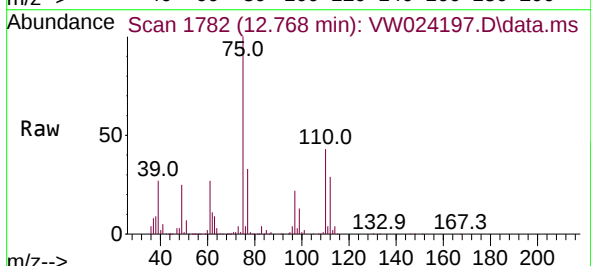
Tgt Ion: 75 Resp: 101526

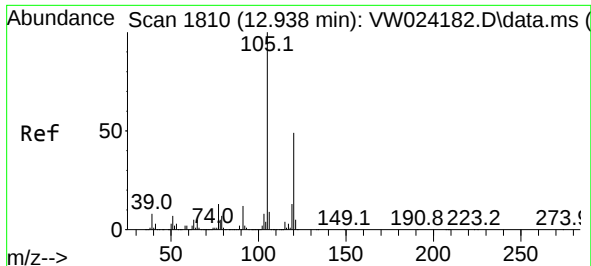
Ion Ratio Lower Upper

75 100

77 33.4 26.2 39.4

110 42.1 33.6 50.4





#62

1,3,5-Trimethylbenzene

Concen: 29.401 ug/L

RT: 12.938 min Scan# 1810

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

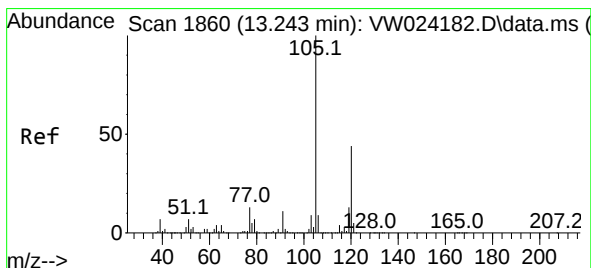
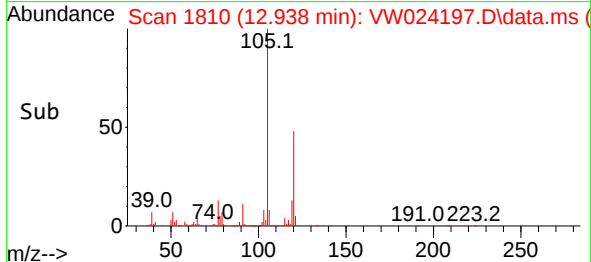
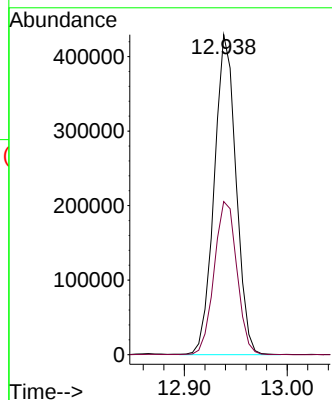
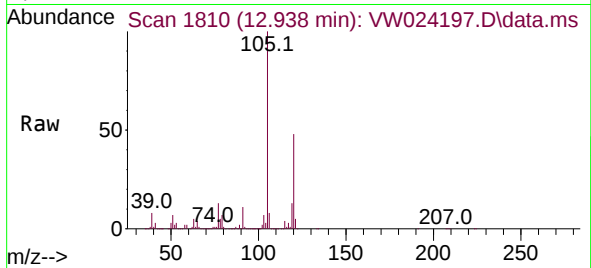
VSTD025524

Tgt Ion:105 Resp: 631891

Ion Ratio Lower Upper

105 100

120 50.0 39.7 59.5



#63

1,2,4-Trimethylbenzene

Concen: 28.828 ug/L

RT: 13.243 min Scan# 1860

Delta R.T. -0.000 min

Lab File: VW024197.D

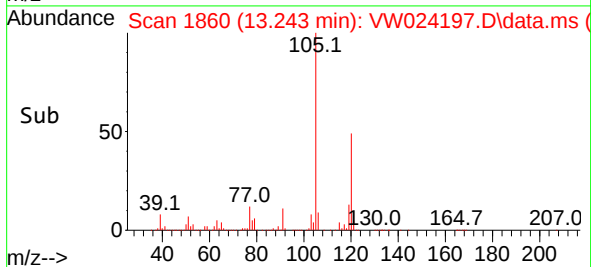
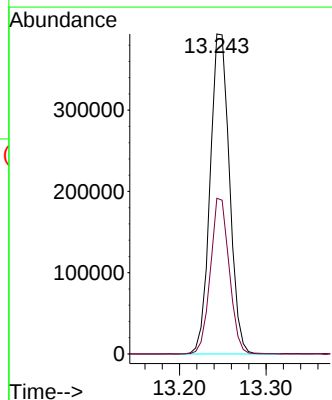
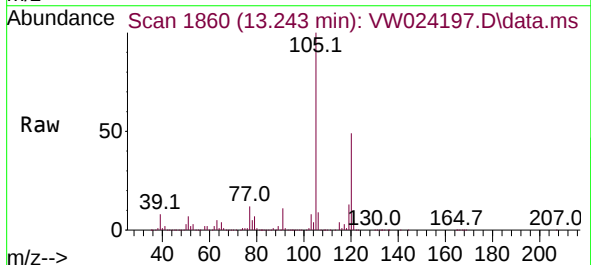
Acq: 08 Aug 2022 09:14

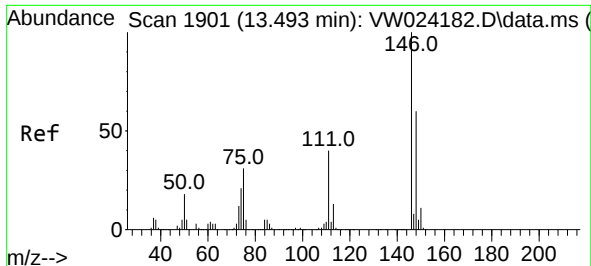
Tgt Ion:105 Resp: 610179

Ion Ratio Lower Upper

105 100

120 47.4 36.4 54.6

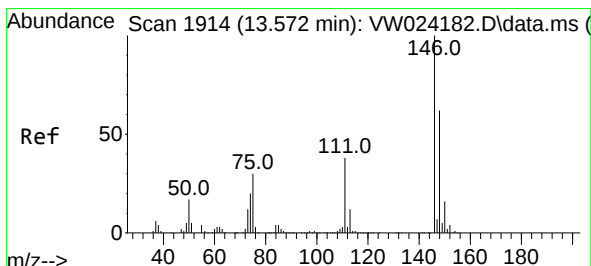
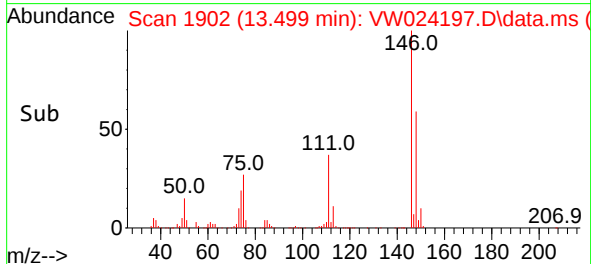
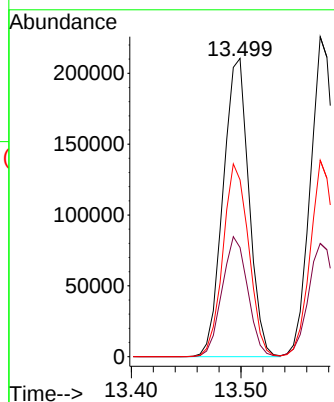
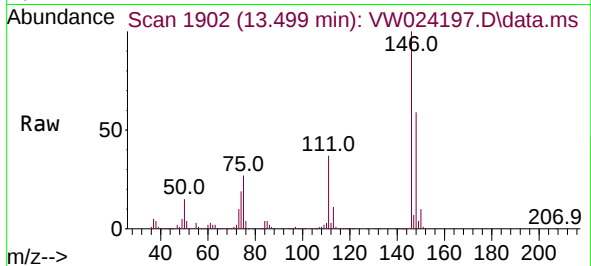




#64  
1,3-Dichlorobenzene  
Concen: 27.059 ug/L  
RT: 13.499 min Scan# 1901  
Delta R.T. 0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

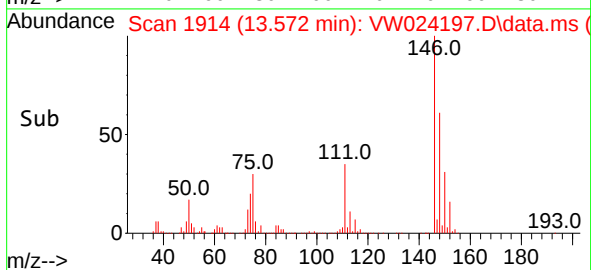
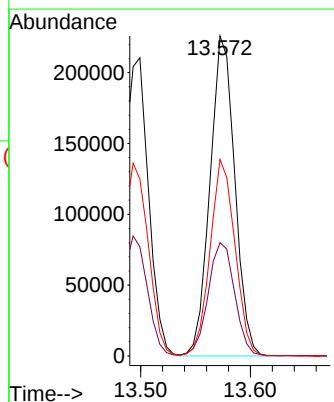
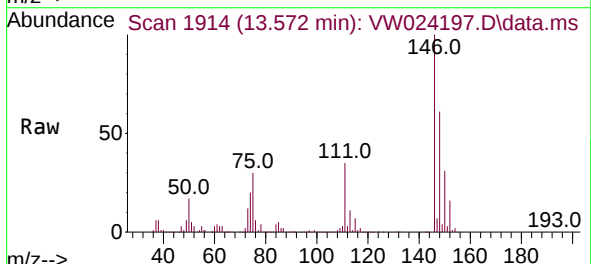
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

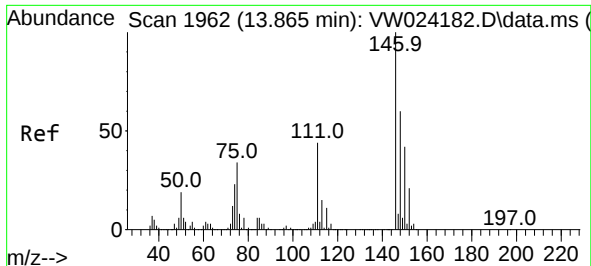
Tgt Ion:146 Resp: 344610  
Ion Ratio Lower Upper  
146 100  
111 36.6 28.0 52.0  
148 59.3 46.5 86.3



#65  
1,4-Dichlorobenzene  
Concen: 26.346 ug/L  
RT: 13.572 min Scan# 1914  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

Tgt Ion:146 Resp: 355291  
Ion Ratio Lower Upper  
146 100  
111 35.4 27.6 51.4  
148 61.4 40.5 75.3





#67

1,2-Dichlorobenzene

Concen: 26.215 ug/L

RT: 13.865 min Scan# 1962

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025524

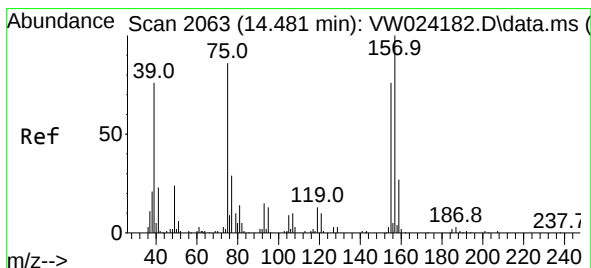
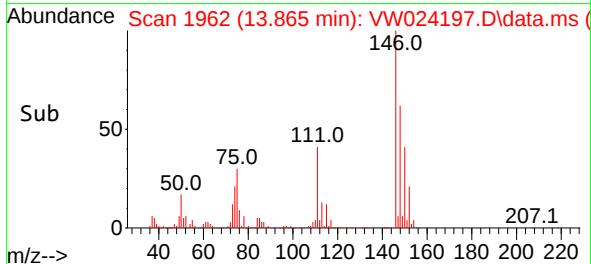
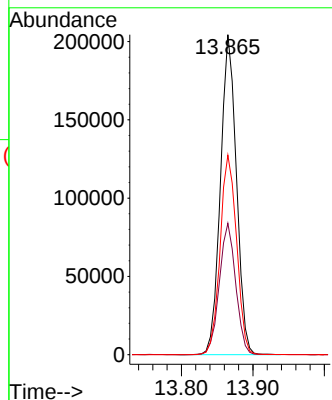
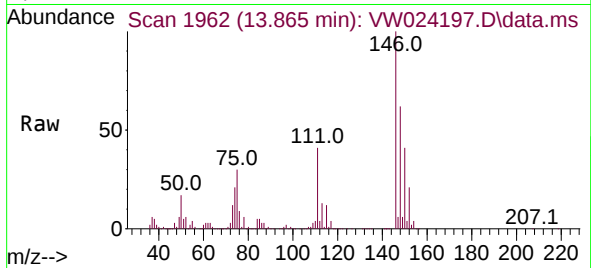
Tgt Ion:146 Resp: 317035

Ion Ratio Lower Upper

146 100

111 41.1 29.0 43.6

148 62.3 47.8 71.8



#68

1,2-Dibromo-3-chloropropane

Concen: 22.338 ug/L

RT: 14.481 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

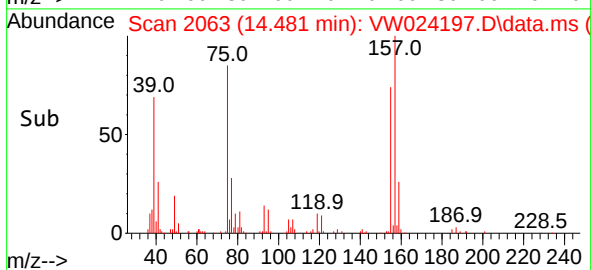
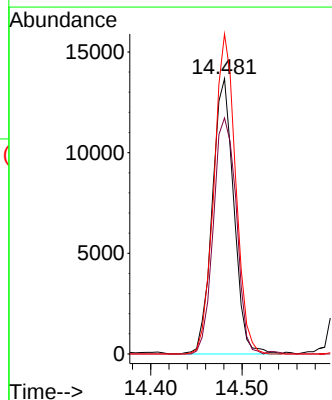
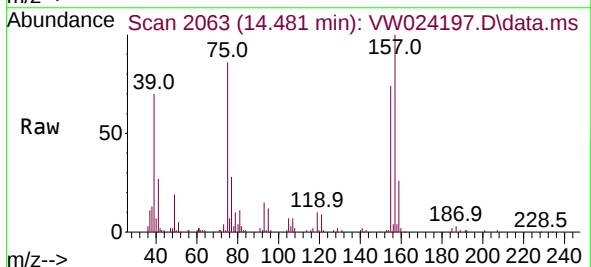
Tgt Ion: 75 Resp: 22314

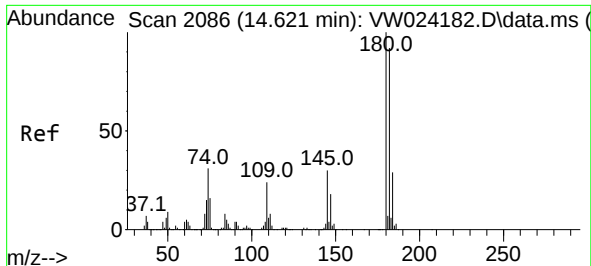
Ion Ratio Lower Upper

75 100

155 85.7 68.8 103.2

157 116.3 91.5 137.3

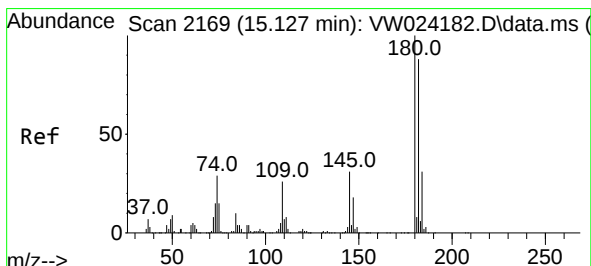
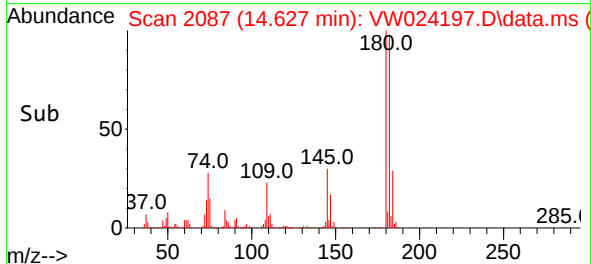
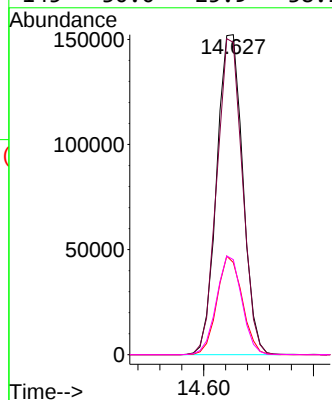
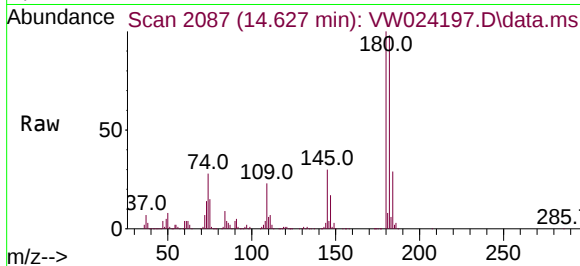




#69  
1,3,5-Trichlorobenzene  
Concen: 30.024 ug/L  
RT: 14.627 min Scan# 2086  
Delta R.T. 0.006 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

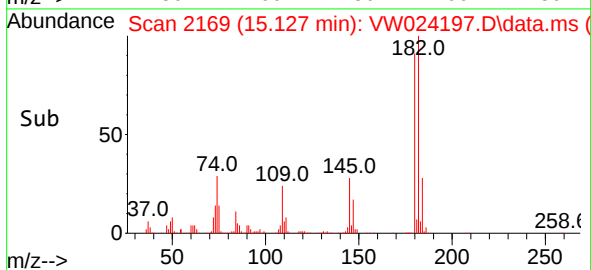
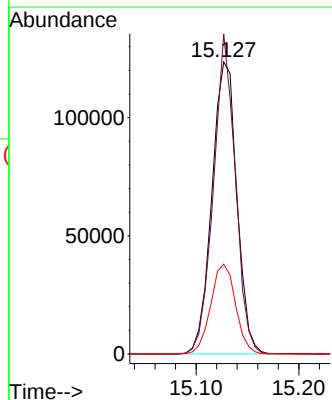
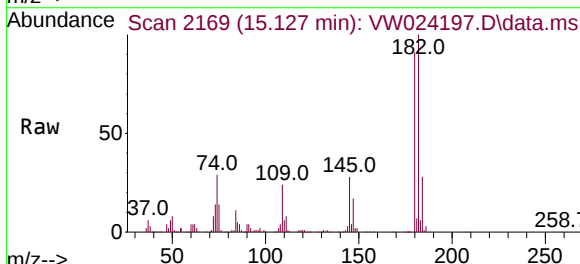
Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTD025524

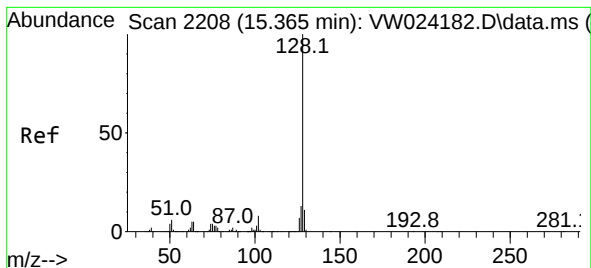
|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:180 | Resp: | 250727 |       |
| Ion         | Ratio | Lower  | Upper |
| 180         | 100   |        |       |
| 182         | 97.0  | 78.4   | 117.6 |
| 184         | 29.8  | 24.7   | 37.1  |
| 145         | 30.0  | 25.9   | 38.9  |



#70  
1,2,4-trichlorobenzene  
Concen: 31.101 ug/L  
RT: 15.127 min Scan# 2169  
Delta R.T. -0.000 min  
Lab File: VW024197.D  
Acq: 08 Aug 2022 09:14

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:180 | Resp: | 207996 |       |
| Ion         | Ratio | Lower  | Upper |
| 180         | 100   |        |       |
| 182         | 96.3  | 75.0   | 112.4 |
| 145         | 30.7  | 25.1   | 37.7  |





#71

Naphthalene

Concen: 31.416 ug/L

RT: 15.359 min Scan# 21

Delta R.T. -0.006 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Instrument :

MSVOA\_W

ClientSampleId :

VSTD025524

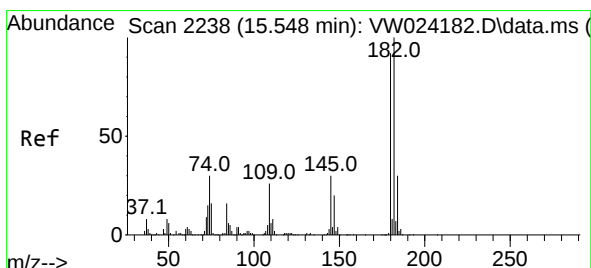
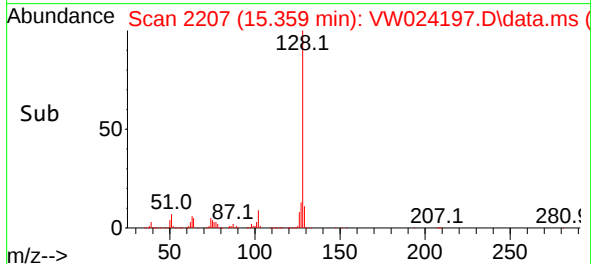
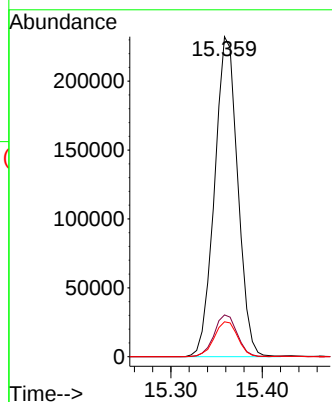
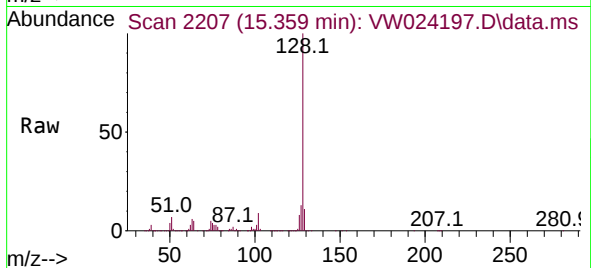
Tgt Ion:128 Resp: 409234

Ion Ratio Lower Upper

128 100

127 13.0 10.7 16.1

129 11.1 8.8 13.2



#72

1,2,3-Trichlorobenzene

Concen: 30.684 ug/L

RT: 15.548 min Scan# 2238

Delta R.T. -0.000 min

Lab File: VW024197.D

Acq: 08 Aug 2022 09:14

Tgt Ion:180 Resp: 186825

Ion Ratio Lower Upper

180 100

182 91.4 75.4 113.2

145 32.0 26.9 40.3

