

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW022223\  
 Data File : VW030077.D  
 Acq On : 22 Feb 2023 10:48  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050285

Quant Time: Feb 22 23:10:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM021723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Feb 20 22:59:49 2023  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units       | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|-------------|----------|
| -----                         |           |       |          |          |             |          |
| Internal Standards            |           |       |          |          |             |          |
| 1) 1,4-Difluorobenzene        | 5.542     | 114   | 222389   | 50.000   | ug/L        | 0.00     |
| 28) Chlorobenzene-d5          | 8.792     | 117   | 217710   | 50.000   | ug/L        | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.194    | 152   | 134293   | 50.000   | ug/L        | 0.00     |
| System Monitoring Compounds   |           |       |          |          |             |          |
| 4) Vinyl Chloride-d3          | 1.281     | 65    | 153489   | 97.076   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 135 | Recovery | = 194.160%# |          |
| 7) Chloroethane-d5            | 1.535     | 69    | 126366   | 104.448  | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 130 | Recovery | = 208.900%# |          |
| 11) 1,1-Dichloroethene-d2     | 2.063     | 63    | 248365   | 82.112   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 164.220%# |          |
| 21) 2-Butanone-d5             | 3.796     | 46    | 148893   | 150.896  | ug/L        | 0.00     |
| Spiked Amount                 | 100.000   | Range | 40 - 130 | Recovery | = 150.900%# |          |
| 24) Chloroform-d              | 4.256     | 84    | 257535   | 87.629   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 175.260%# |          |
| 26) 1,2-Dichloroethane-d4     | 4.947     | 65    | 148682   | 85.588   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 171.180%# |          |
| 32) Benzene-d6                | 4.966     | 84    | 514721   | 89.020   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 178.040%# |          |
| 36) 1,2-Dichloropropane-d6    | 5.995     | 67    | 159410   | 86.703   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 120 | Recovery | = 173.400%# |          |
| 41) Toluene-d8                | 7.249     | 98    | 489233   | 89.655   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 179.320%# |          |
| 43) trans-1,3-Dichloroprop... | 7.558     | 79    | 76746    | 83.994   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 167.980%# |          |
| 47) 2-Hexanone-d5             | 8.030     | 63    | 127329   | 148.551  | ug/L        | 0.00     |
| Spiked Amount                 | 100.000   | Range | 45 - 130 | Recovery | = 148.550%# |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.159    | 84    | 219247   | 79.499   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 120 | Recovery | = 159.000%# |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.567    | 152   | 202332   | 84.596   | ug/L        | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 169.200%# |          |
| Target Compounds              |           |       |          |          |             | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.108     | 85    | 117685   | 49.994   | ug/L        | 100      |
| 3) Chloromethane              | 1.217     | 50    | 145735   | 48.248   | ug/L        | 99       |
| 5) Vinyl chloride             | 1.285     | 62    | 105912   | 50.351   | ug/L        | 98       |
| 6) Bromomethane               | 1.490     | 94    | 20846    | 54.520   | ug/L        | 97       |
| 8) Chloroethane               | 1.552     | 64    | 63259    | 51.543   | ug/L        | 97       |
| 9) Trichlorofluoromethane     | 1.716     | 101   | 148123   | 53.123   | ug/L        | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.072     | 101   | 92793    | 54.375   | ug/L        | 99       |
| 12) 1,1-Dichloroethene        | 2.072     | 96    | 78268    | 50.983   | ug/L #      | 59       |
| 13) Acetone                   | 2.124     | 43    | 78738    | 103.968  | ug/L        | 99       |
| 14) Carbon disulfide          | 2.246     | 76    | 206866   | 45.570   | ug/L        | 99       |
| 15) Methyl Acetate            | 2.378     | 43    | 72995    | 46.354   | ug/L        | 99       |
| 16) Methylene chloride        | 2.452     | 84    | 85170    | 50.676   | ug/L        | 97       |
| 17) trans-1,2-Dichloroethene  | 2.699     | 96    | 76873    | 48.985   | ug/L        | 100      |
| 18) Methyl tert-butyl Ether   | 2.709     | 73    | 246310   | 49.320   | ug/L        | 100      |
| 19) 1,1-Dichloroethane        | 3.117     | 63    | 144803   | 50.063   | ug/L        | 100      |
| 20) cis-1,2-Dichloroethene    | 3.822     | 96    | 88029    | 50.722   | ug/L        | 97       |
| 22) 2-Butanone                | 3.879     | 43    | 97210    | 91.485   | ug/L        | 99       |
| 23) Bromochloromethane        | 4.153     | 128   | 47063    | 50.861   | ug/L        | 97       |
| 25) Chloroform                | 4.281     | 83    | 152313   | 51.654   | ug/L        | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW022223\  
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 Acq On : 22 Feb 2023 10:48  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

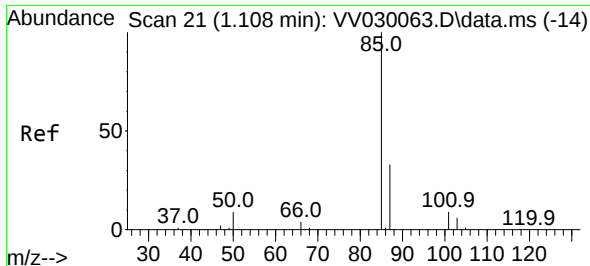
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050285

Quant Time: Feb 22 23:10:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM021723WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Feb 20 22:59:49 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.047  | 62   | 108258   | 49.156 | ug/L  | 100      |
| 29) Cyclohexane               | 4.590  | 56   | 116083   | 45.758 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 4.519  | 97   | 133228   | 49.262 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.741  | 117  | 117563   | 49.516 | ug/L  | 98       |
| 33) Benzene                   | 5.018  | 78   | 318602   | 49.602 | ug/L  | 100      |
| 34) Trichloroethene           | 5.841  | 95   | 85080    | 48.666 | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.056  | 83   | 131977   | 47.555 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.101  | 63   | 82829    | 48.965 | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.439  | 83   | 112476   | 49.504 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 6.960  | 75   | 133569   | 46.972 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.165  | 43   | 190202   | 90.444 | ug/L  | 99       |
| 42) Toluene                   | 7.320  | 91   | 344138   | 48.962 | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 7.587  | 75   | 130126   | 50.318 | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 7.773  | 97   | 86840    | 49.463 | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.911  | 164  | 72981    | 49.656 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.082  | 43   | 150431   | 92.819 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.181  | 129  | 92350    | 50.735 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.288  | 107  | 93245    | 48.412 | ug/L  | 98       |
| 51) Chlorobenzene             | 8.821  | 112  | 228624   | 48.808 | ug/L  | 99       |
| 52) Ethylbenzene              | 8.953  | 91   | 375992   | 48.314 | ug/L  | 100      |
| 53) m,p-Xylene                | 9.079  | 106  | 143973   | 48.422 | ug/L  | 98       |
| 54) o-Xylene                  | 9.487  | 106  | 138731   | 48.416 | ug/L  | 98       |
| 55) Styrene                   | 9.503  | 104  | 245213   | 50.094 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.185 | 83   | 139334   | 48.549 | ug/L  | 99       |
| 59) Bromoform                 | 9.673  | 173  | 69909    | 52.568 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.873  | 105  | 384350   | 48.128 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.217 | 75   | 103254   | 46.470 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 10.484 | 105  | 315677   | 47.728 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.860 | 105  | 309322   | 47.583 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.127 | 146  | 197823   | 49.155 | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.217 | 146  | 200890   | 48.784 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.586 | 146  | 195477   | 48.785 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.374 | 75   | 27714    | 42.752 | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.593 | 180  | 154418   | 48.083 | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene    | 13.207 | 180  | 138950   | 46.032 | ug/L  | 100      |
| 71) Naphthalene               | 13.448 | 128  | 371655   | 42.448 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.689 | 180  | 137438   | 46.394 | ug/L  | 99       |

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

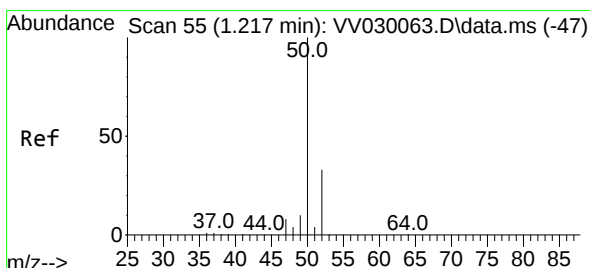
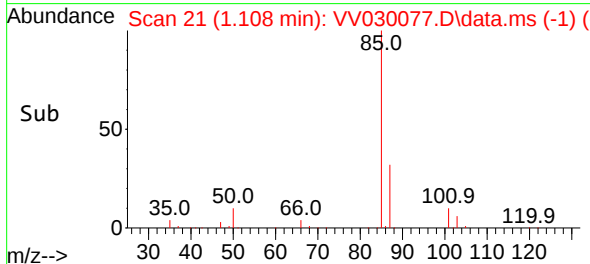
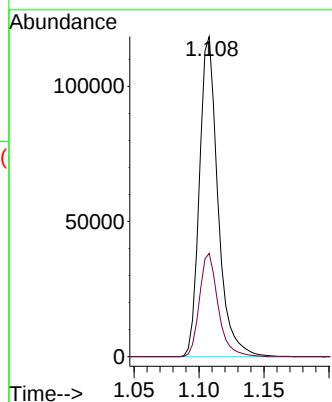
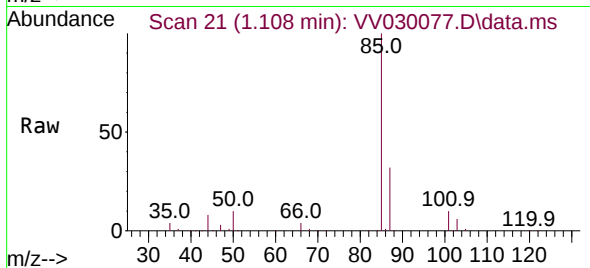




#2  
 Dichlorodifluoromethane  
 Concen: 49.994 ug/L  
 RT: 1.108 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: VV030077.D  
 Acq: 22 Feb 2023 10:48

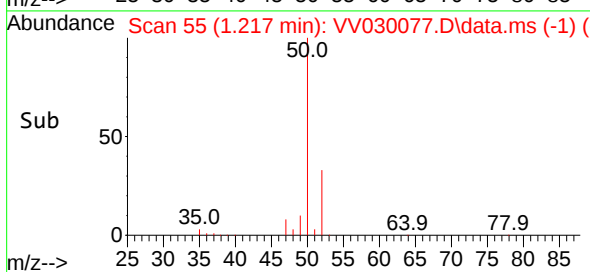
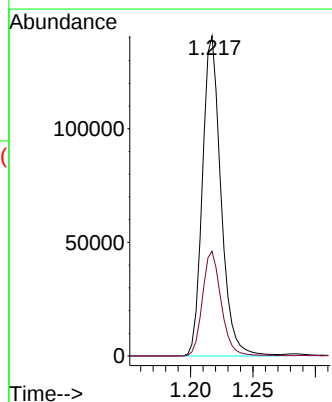
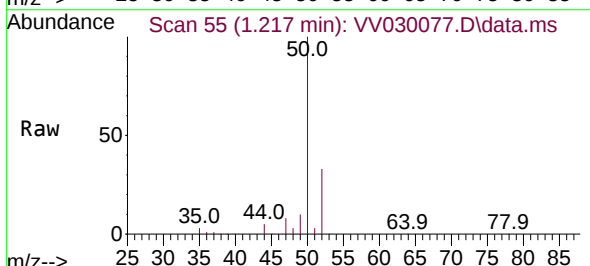
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050285

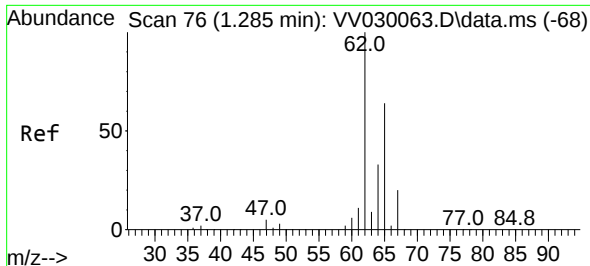
Tgt Ion: 85 Resp: 117685  
 Ion Ratio Lower Upper  
 85 100  
 87 32.6 26.0 39.0



#3  
 Chloromethane  
 Concen: 48.248 ug/L  
 RT: 1.217 min Scan# 55  
 Delta R.T. 0.000 min  
 Lab File: VV030077.D  
 Acq: 22 Feb 2023 10:48

Tgt Ion: 50 Resp: 145735  
 Ion Ratio Lower Upper  
 50 100  
 52 32.7 23.4 43.4

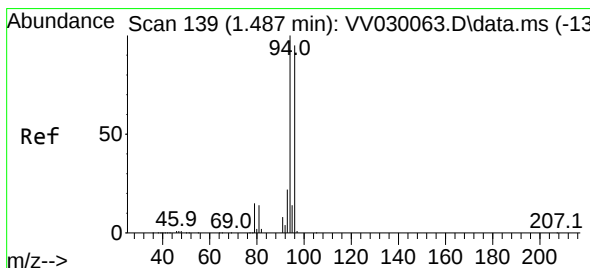
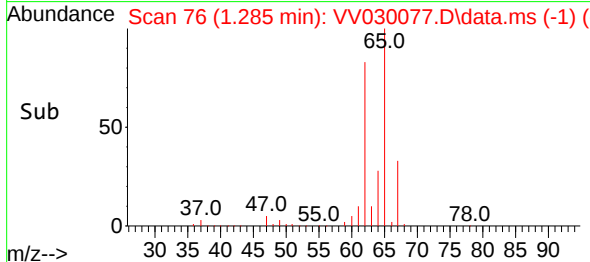
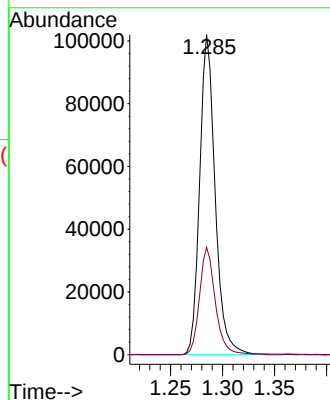
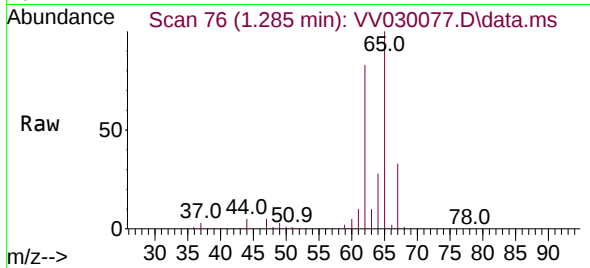




#5  
 Vinyl chloride  
 Concen: 50.351 ug/L  
 RT: 1.285 min Scan# 70  
 Delta R.T. 0.000 min  
 Lab File: VV030077.D  
 Acq: 22 Feb 2023 10:48

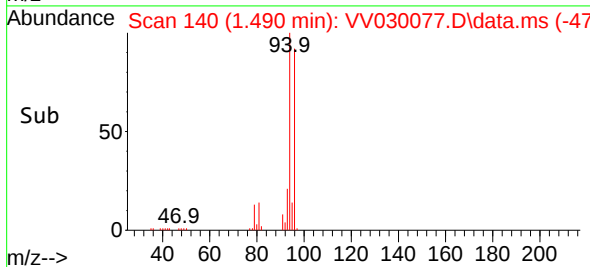
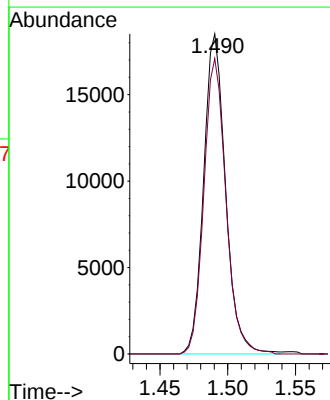
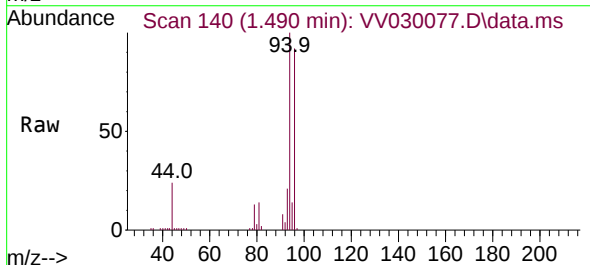
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050285

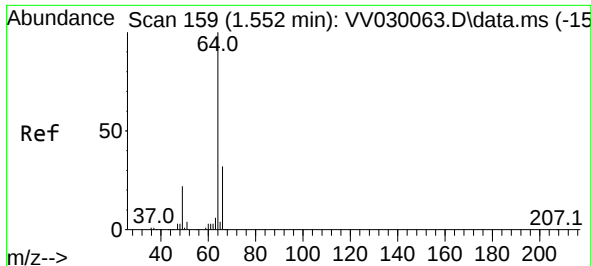
Tgt Ion: 62 Resp: 105912  
 Ion Ratio Lower Upper  
 62 100  
 64 33.6 22.9 42.5



#6  
 Bromomethane  
 Concen: 54.520 ug/L  
 RT: 1.490 min Scan# 140  
 Delta R.T. 0.000 min  
 Lab File: VV030077.D  
 Acq: 22 Feb 2023 10:48

Tgt Ion: 94 Resp: 20846  
 Ion Ratio Lower Upper  
 94 100  
 96 92.3 66.7 123.9

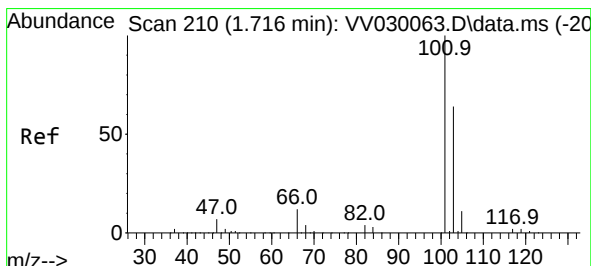
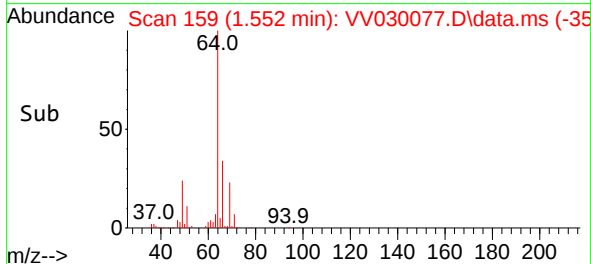
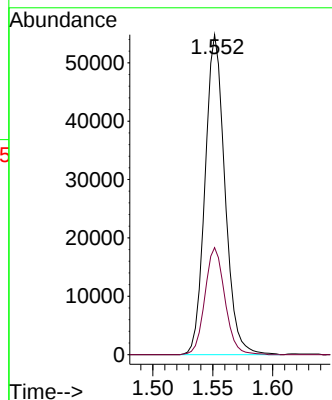
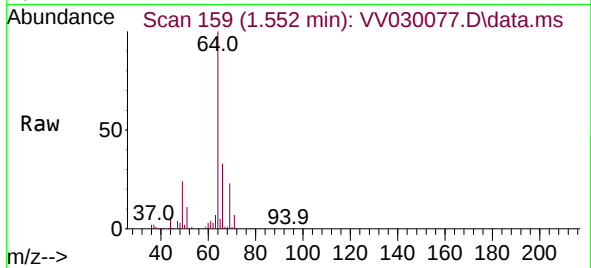




#8  
Chloroethane  
Concen: 51.543 ug/L  
RT: 1.552 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

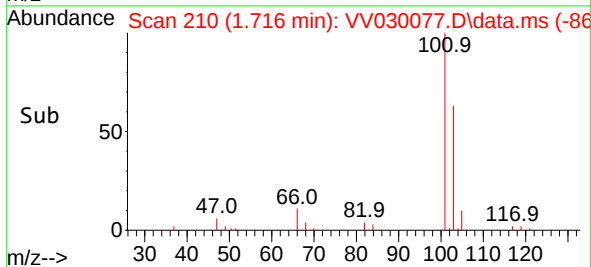
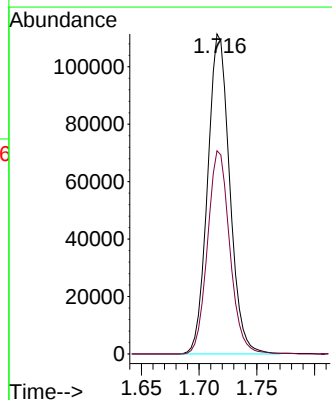
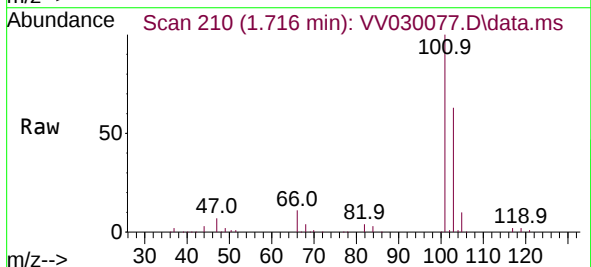
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

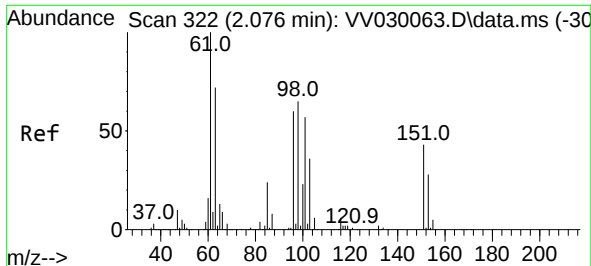
Tgt Ion: 64 Resp: 63259  
Ion Ratio Lower Upper  
64 100  
66 33.5 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 53.123 ug/L  
RT: 1.716 min Scan# 210  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion:101 Resp: 148123  
Ion Ratio Lower Upper  
101 100  
103 63.9 52.6 78.8





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 54.375 ug/L

RT: 2.072 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050285

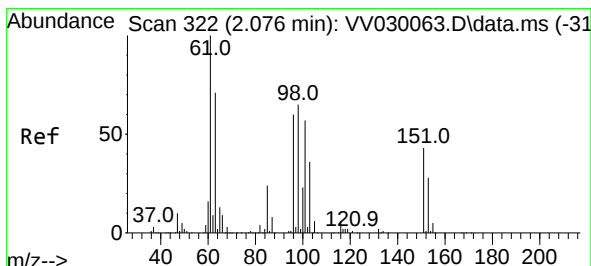
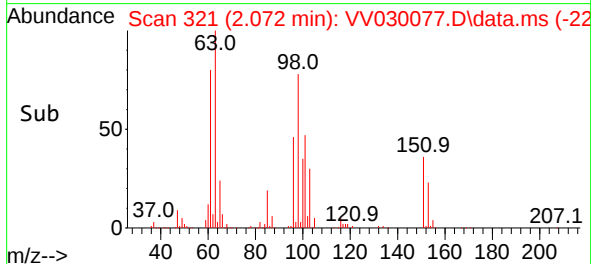
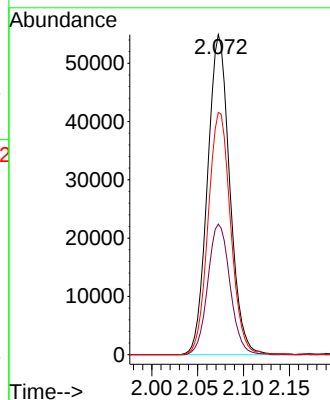
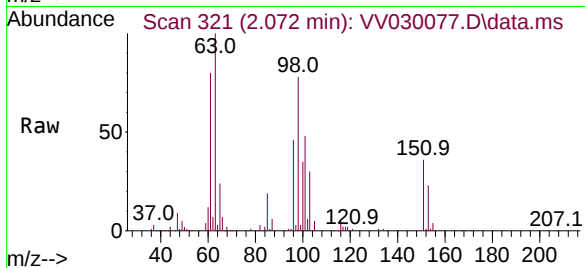
Tgt Ion:101 Resp: 92793

Ion Ratio Lower Upper

101 100

85 40.7 33.4 50.2

151 76.1 60.8 91.2



#12

1,1-Dichloroethene

Concen: 50.983 ug/L

RT: 2.072 min Scan# 321

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

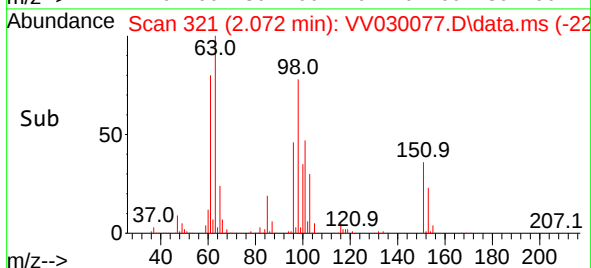
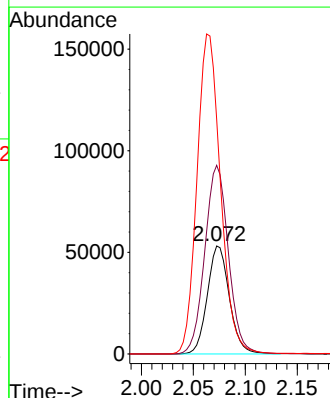
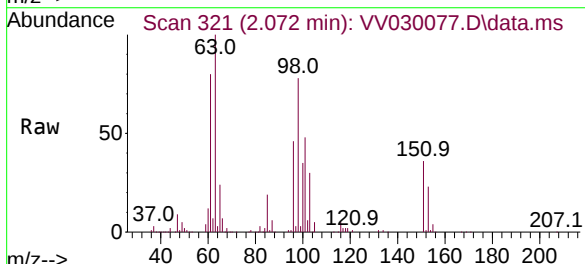
Tgt Ion: 96 Resp: 78268

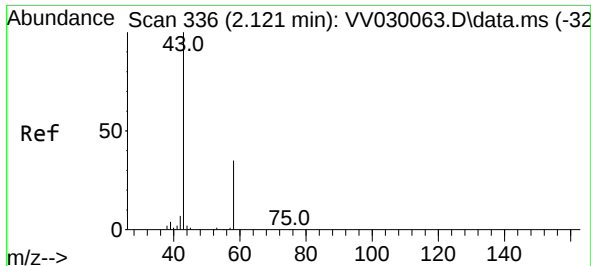
Ion Ratio Lower Upper

96 100

61 174.6 115.8 215.2

63 217.1 83.4 154.8#





#13

Acetone

Concen: 103.968 ug/L

RT: 2.124 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

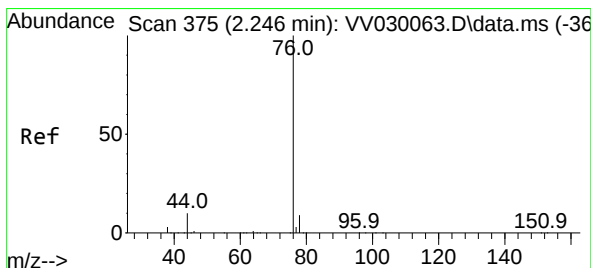
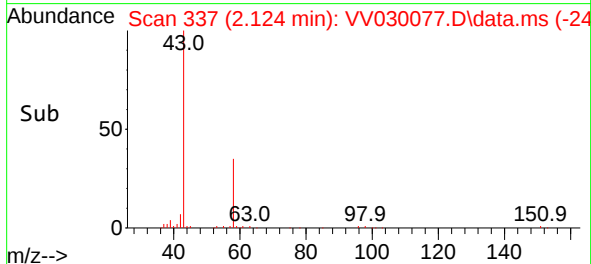
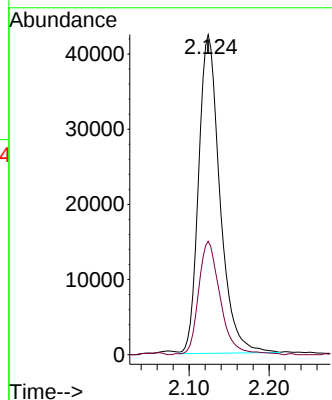
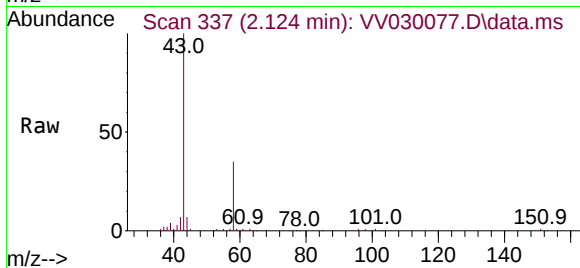
VSTD050285

Tgt Ion: 43 Resp: 78738

Ion Ratio Lower Upper

43 100

58 34.8 0.0 70.6



#14

Carbon disulfide

Concen: 45.570 ug/L

RT: 2.246 min Scan# 375

Delta R.T. 0.000 min

Lab File: VV030077.D

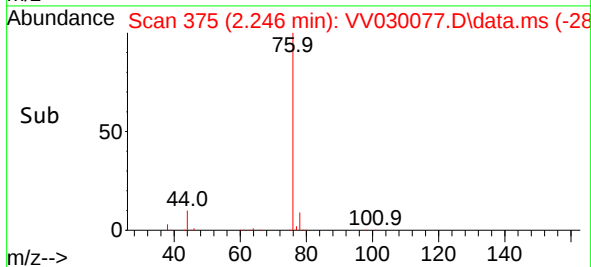
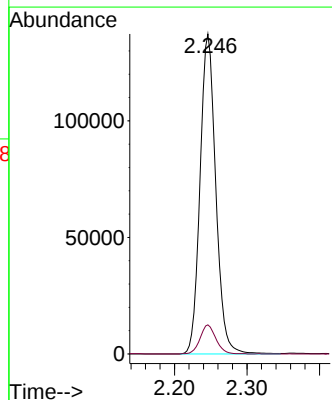
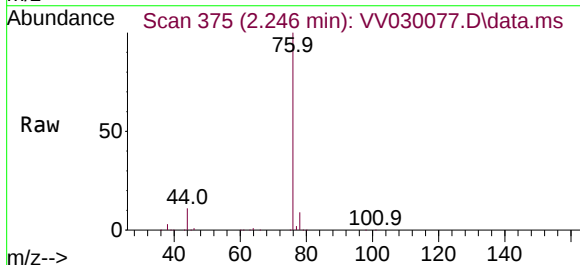
Acq: 22 Feb 2023 10:48

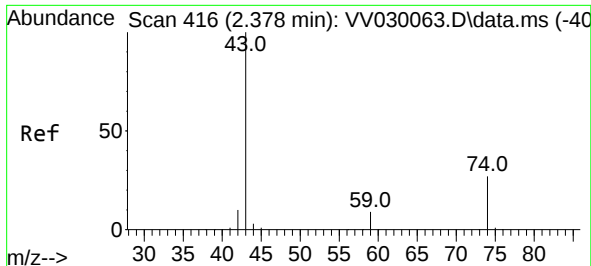
Tgt Ion: 76 Resp: 206866

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.2

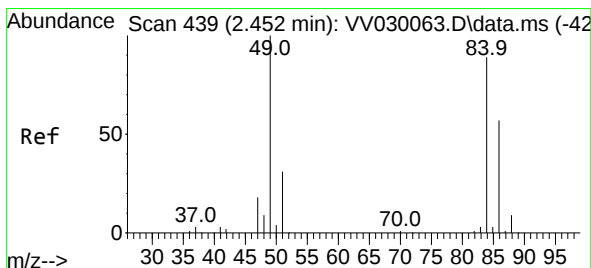
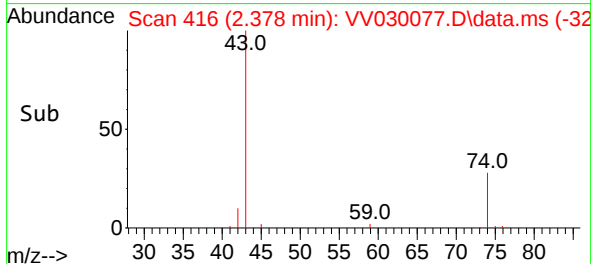
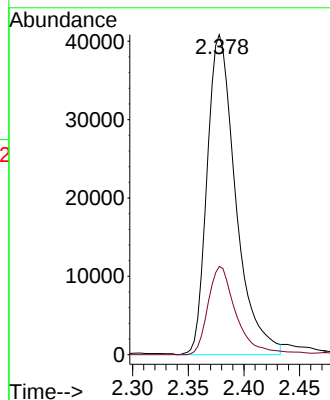
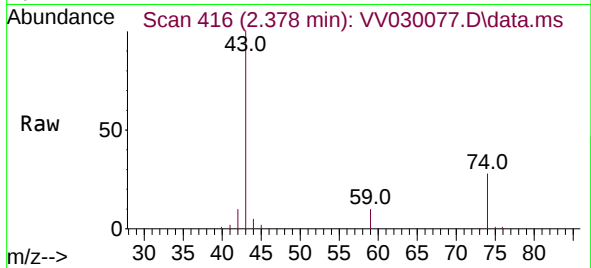




#15  
Methyl Acetate  
Concen: 46.354 ug/L  
RT: 2.378 min Scan# 416  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

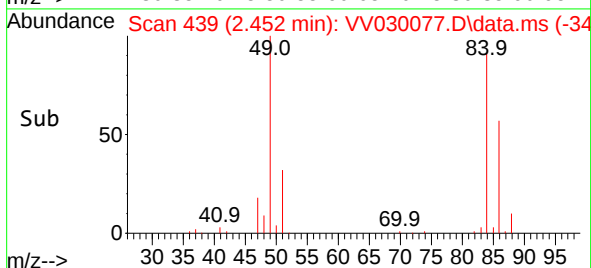
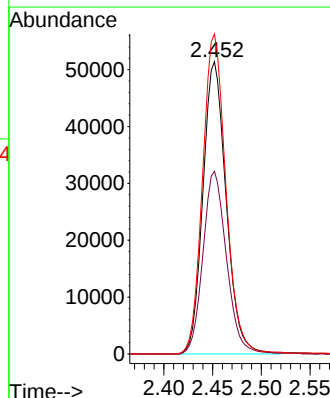
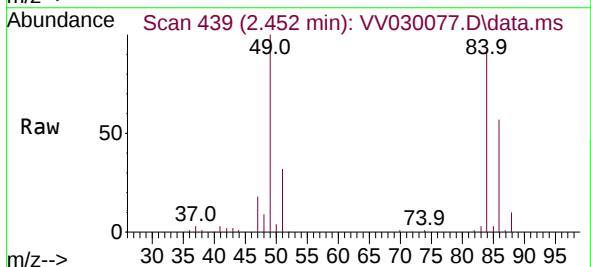
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

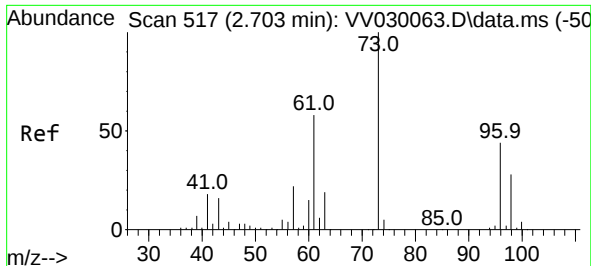
Tgt Ion: 43 Resp: 72995  
Ion Ratio Lower Upper  
43 100  
74 27.1 21.9 32.9



#16  
Methylene chloride  
Concen: 50.676 ug/L  
RT: 2.452 min Scan# 439  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 84 Resp: 85170  
Ion Ratio Lower Upper  
84 100  
86 62.5 45.1 83.7  
49 109.5 78.7 146.1

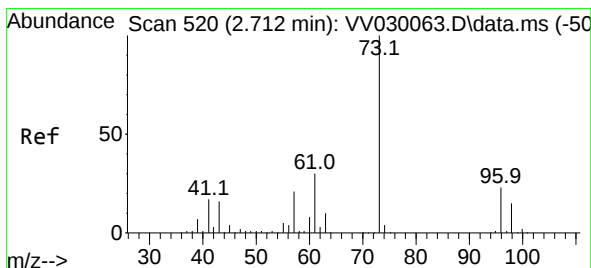
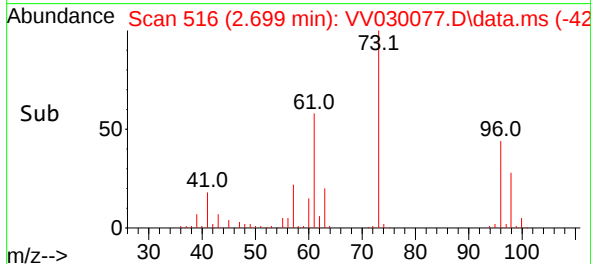
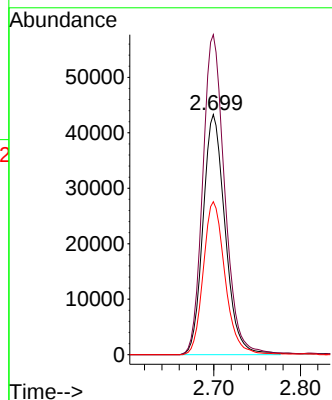
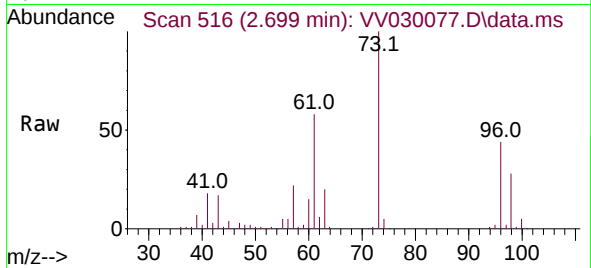




#17  
trans-1,2-Dichloroethene  
Concen: 48.985 ug/L  
RT: 2.699 min Scan# 516  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

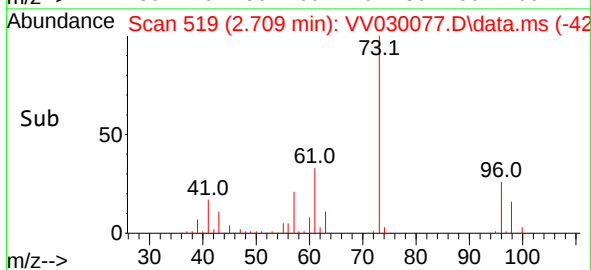
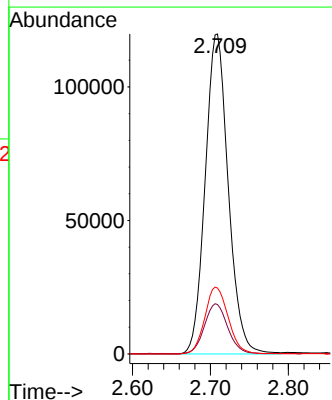
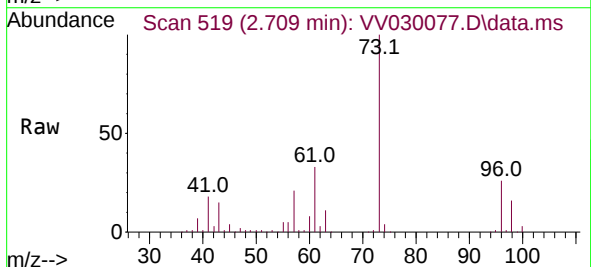
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

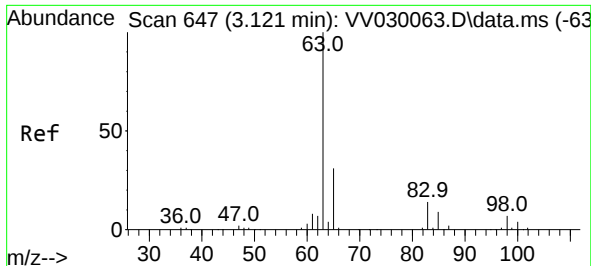
Tgt Ion: 96 Resp: 76873  
Ion Ratio Lower Upper  
96 100  
61 133.3 93.3 173.3  
98 63.7 44.1 81.9



#18  
Methyl tert-butyl Ether  
Concen: 49.320 ug/L  
RT: 2.709 min Scan# 519  
Delta R.T. 0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 73 Resp: 246310  
Ion Ratio Lower Upper  
73 100  
43 15.7 12.7 19.1  
57 21.2 17.0 25.4





#19

1,1-Dichloroethane

Concen: 50.063 ug/L

RT: 3.117 min Scan# 64

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050285

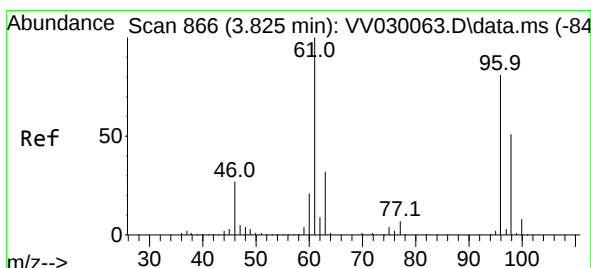
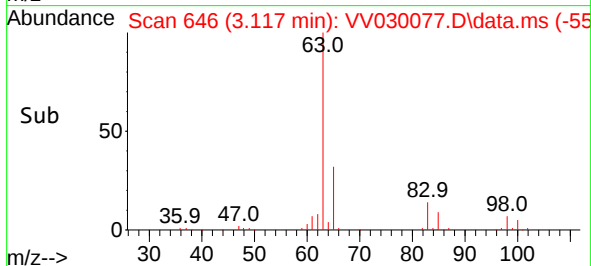
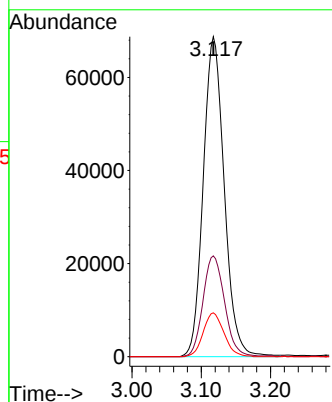
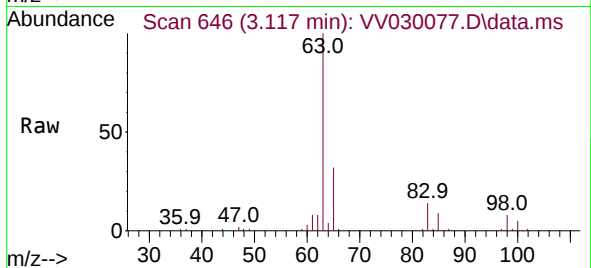
Tgt Ion: 63 Resp: 144803

Ion Ratio Lower Upper

63 100

65 31.5 22.0 41.0

83 13.7 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 50.722 ug/L

RT: 3.822 min Scan# 865

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

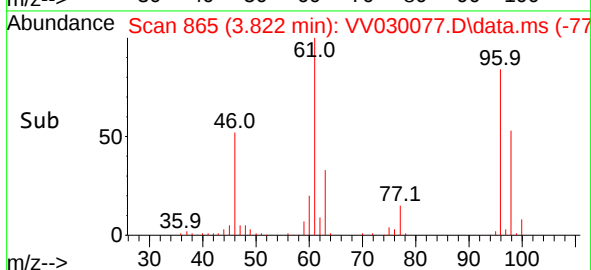
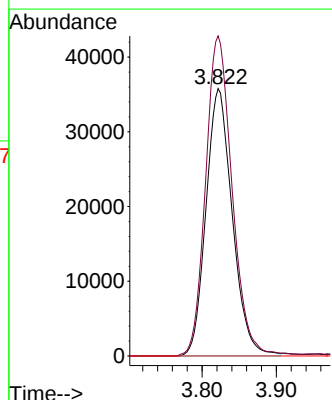
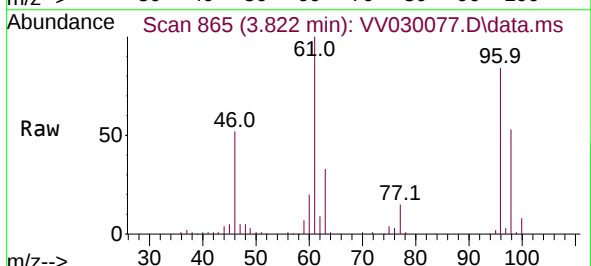
Tgt Ion: 96 Resp: 88029

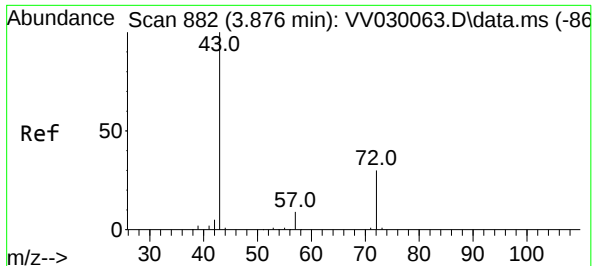
Ion Ratio Lower Upper

96 100

61 119.7 86.0 159.6

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 91.485 ug/L

RT: 3.879 min Scan# 882

Delta R.T. 0.003 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

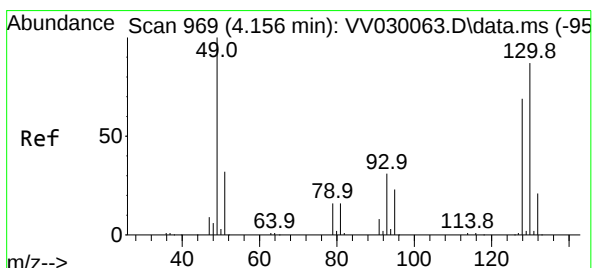
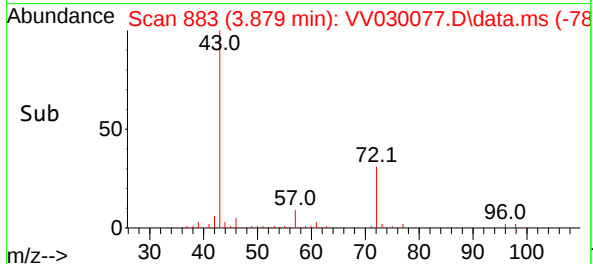
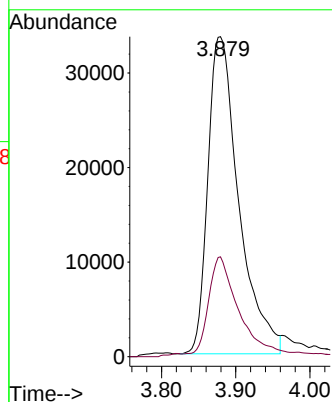
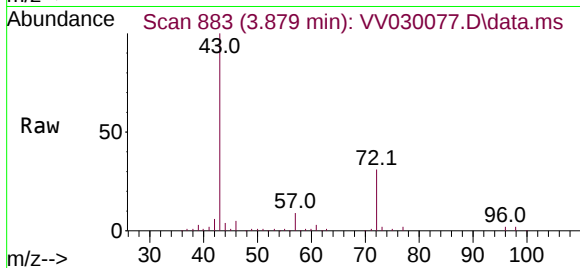
VSTD050285

Tgt Ion: 43 Resp: 97210

Ion Ratio Lower Upper

43 100

72 29.1 14.7 44.1



#23

Bromochloromethane

Concen: 50.861 ug/L

RT: 4.153 min Scan# 968

Delta R.T. -0.003 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Tgt Ion: 128 Resp: 47063

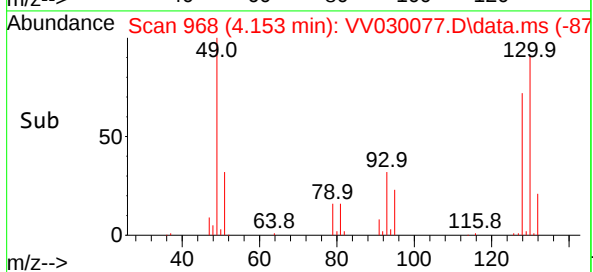
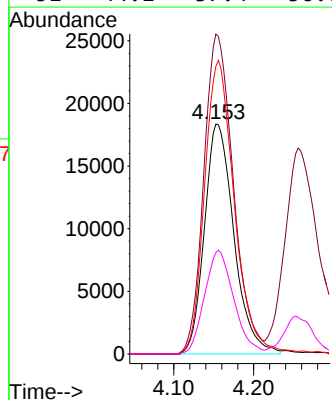
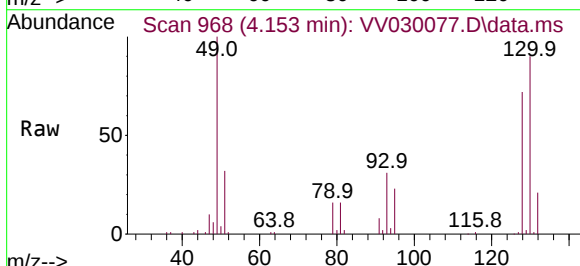
Ion Ratio Lower Upper

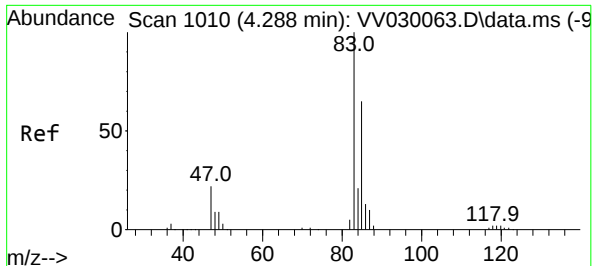
128 100

49 139.1 101.0 187.6

130 125.1 88.2 163.8

51 44.1 37.4 56.0

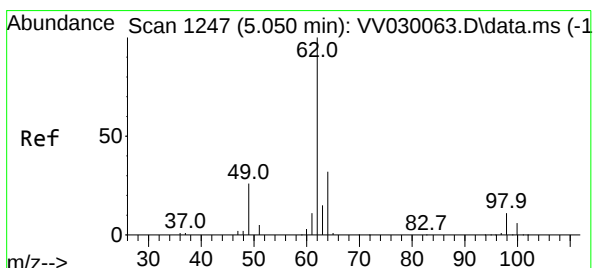
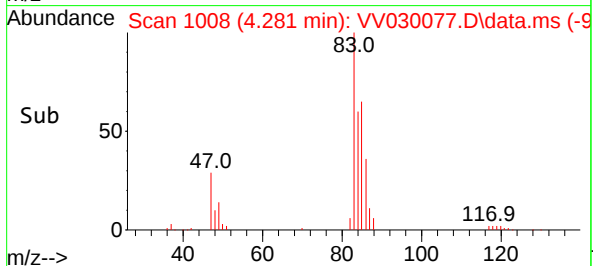
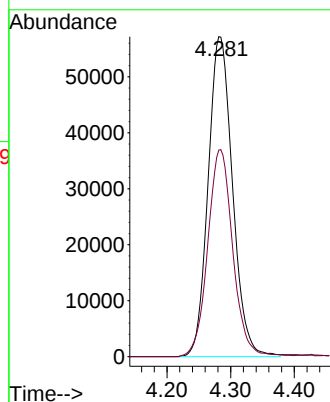
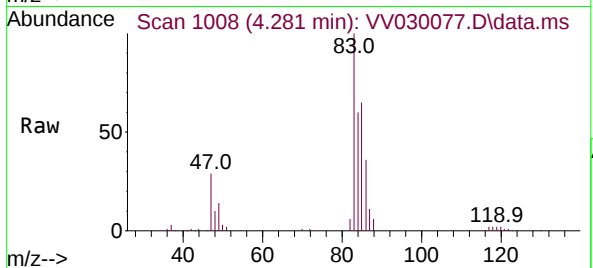




#25  
Chloroform  
Concen: 51.654 ug/L  
RT: 4.281 min Scan# 1010  
Delta R.T. -0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

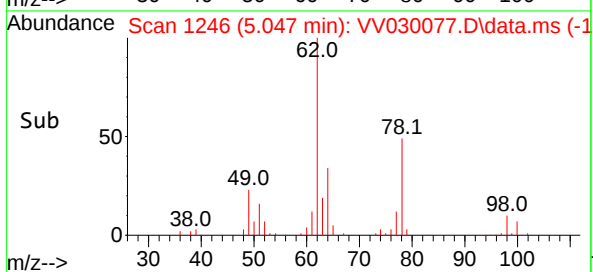
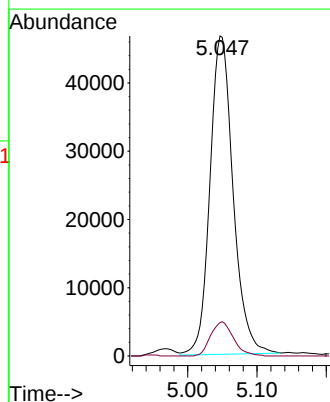
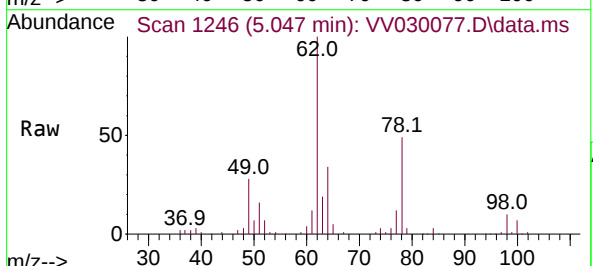
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

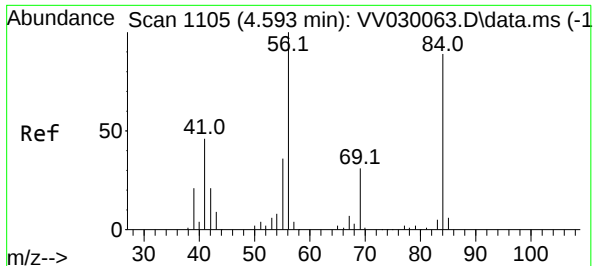
Tgt Ion: 83 Resp: 152313  
Ion Ratio Lower Upper  
83 100  
85 64.6 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 49.156 ug/L  
RT: 5.047 min Scan# 1246  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 62 Resp: 108258  
Ion Ratio Lower Upper  
62 100  
98 10.4 8.5 12.7





#29

Cyclohexane

Concen: 45.758 ug/L

RT: 4.590 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050285

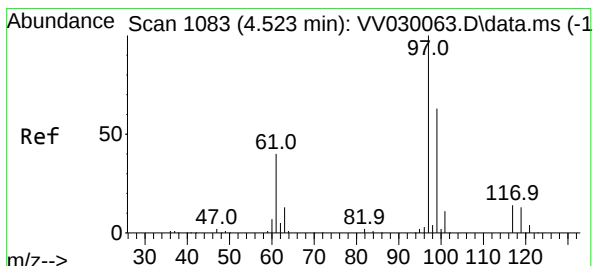
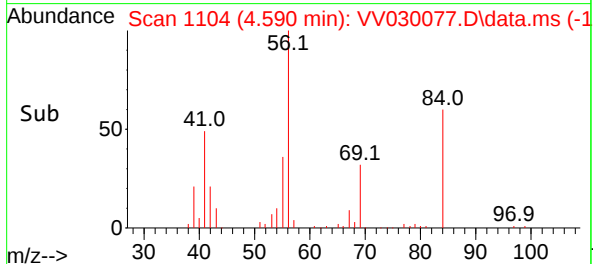
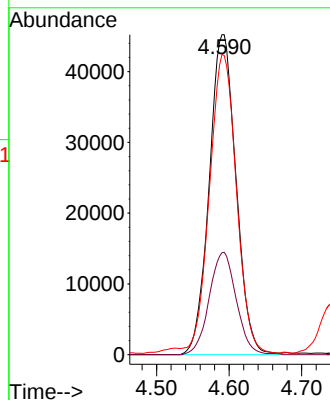
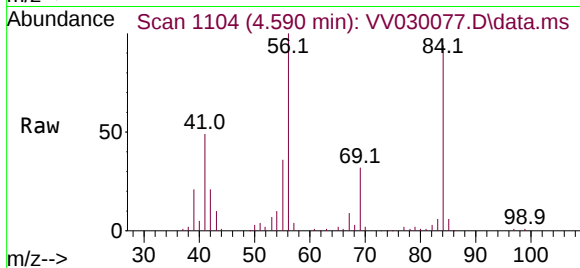
Tgt Ion: 56 Resp: 116083

Ion Ratio Lower Upper

56 100

69 32.2 25.3 37.9

84 93.4 73.0 109.4



#30

1,1,1-Trichloroethane

Concen: 49.262 ug/L

RT: 4.519 min Scan# 1082

Delta R.T. -0.003 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

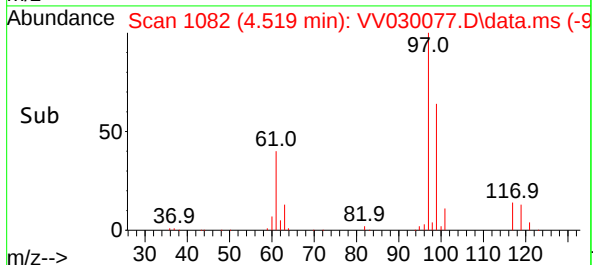
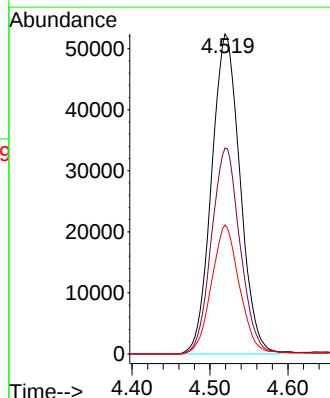
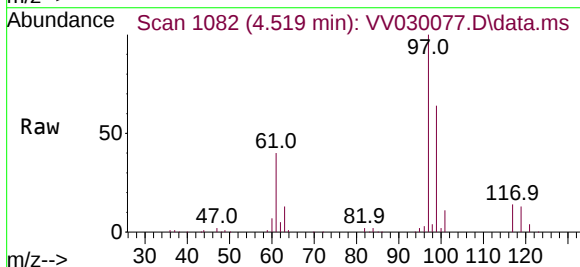
Tgt Ion: 97 Resp: 133228

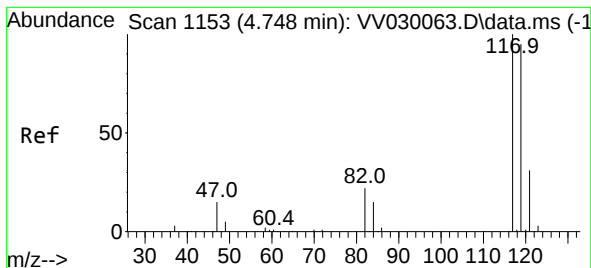
Ion Ratio Lower Upper

97 100

99 64.8 50.7 76.1

61 39.6 31.6 47.4





#31

Carbon tetrachloride

Concen: 49.516 ug/L

RT: 4.741 min Scan# 1151

Delta R.T. -0.003 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

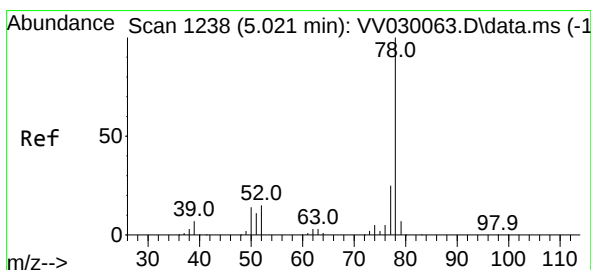
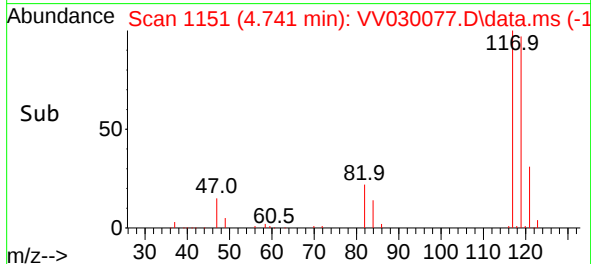
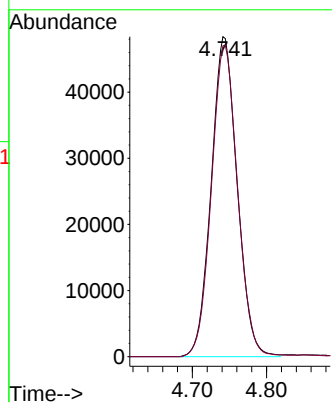
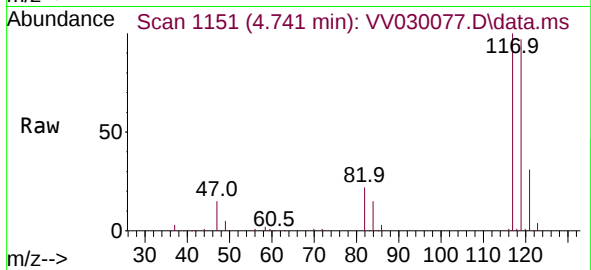
VSTD050285

Tgt Ion:117 Resp: 117563

Ion Ratio Lower Upper

117 100

119 98.1 76.8 115.2



#33

Benzene

Concen: 49.602 ug/L

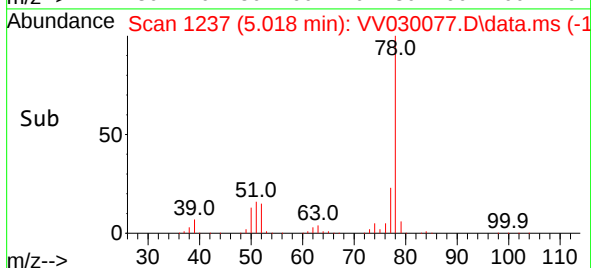
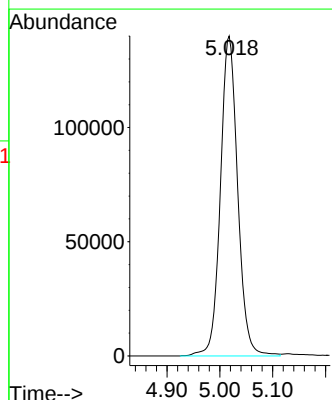
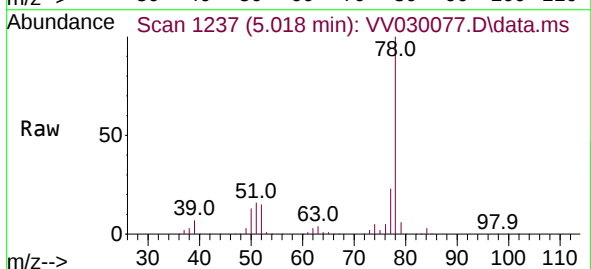
RT: 5.018 min Scan# 1237

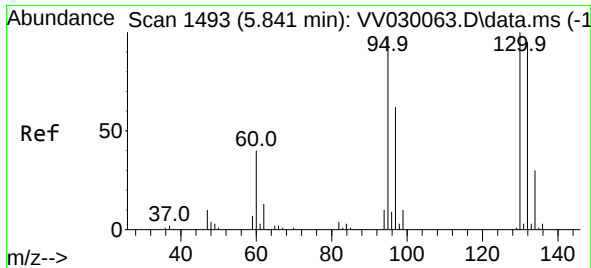
Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Tgt Ion: 78 Resp: 318602



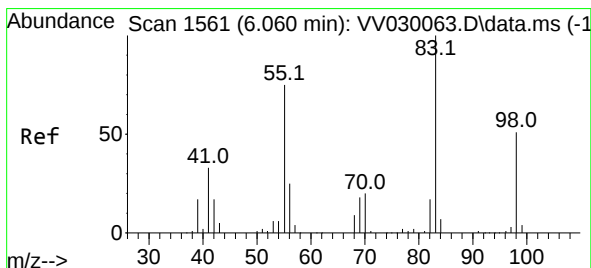
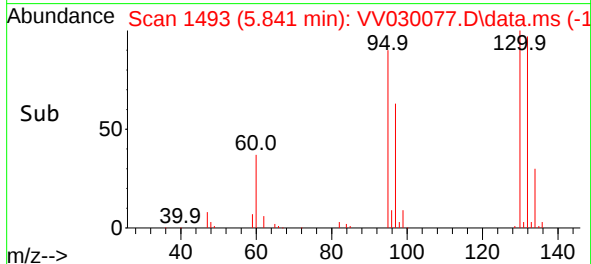
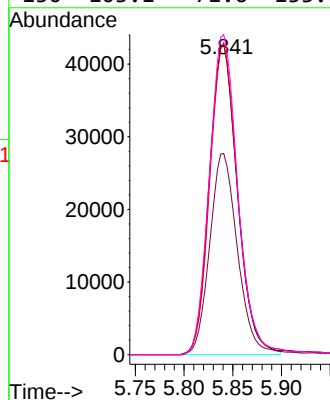
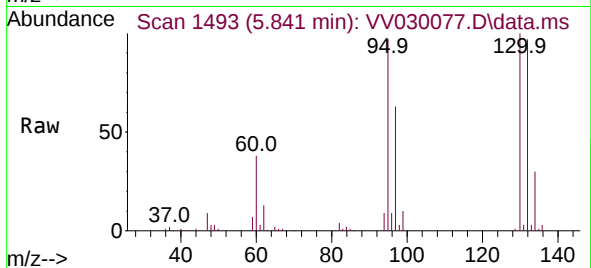


#34  
Trichloroethene  
Concen: 48.666 ug/L  
RT: 5.841 min Scan# 1493  
Delta R.T. 0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

Tgt Ion: 95 Resp: 85080

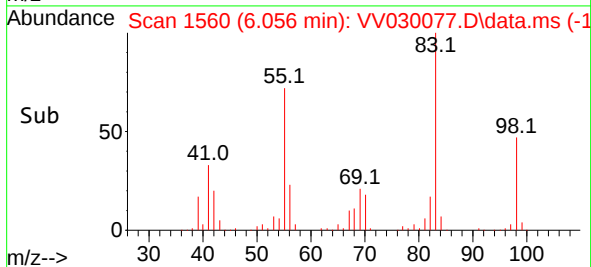
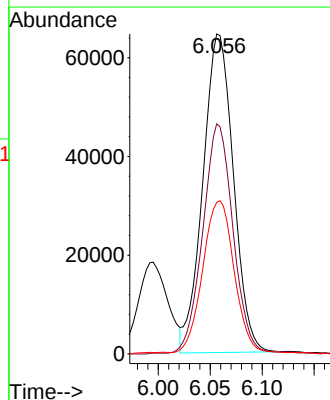
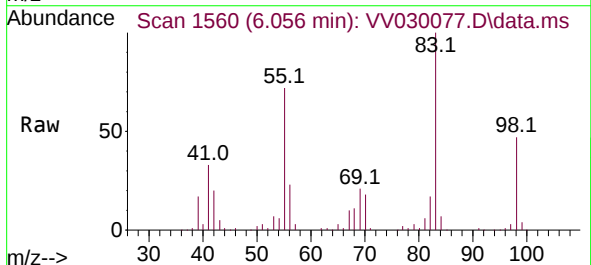
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 64.8  | 44.1  | 81.9  |
| 132 | 100.5 | 68.3  | 126.9 |
| 130 | 103.1 | 71.6  | 133.0 |

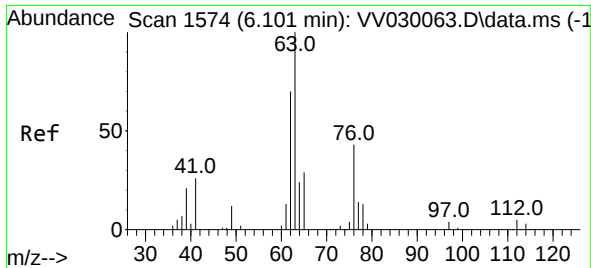


#35  
Methylcyclohexane  
Concen: 47.555 ug/L  
RT: 6.056 min Scan# 1560  
Delta R.T. -0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 83 Resp: 131977

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 71.2  | 58.4  | 87.6  |
| 98  | 49.3  | 39.8  | 59.8  |

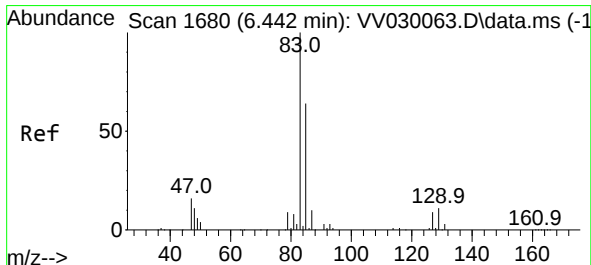
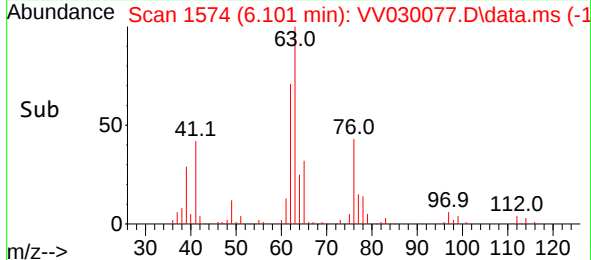
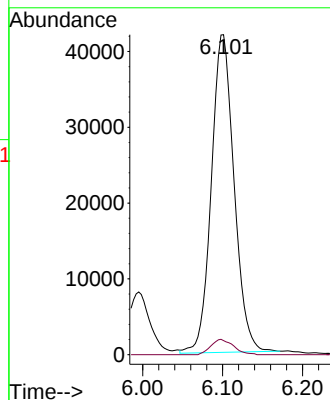
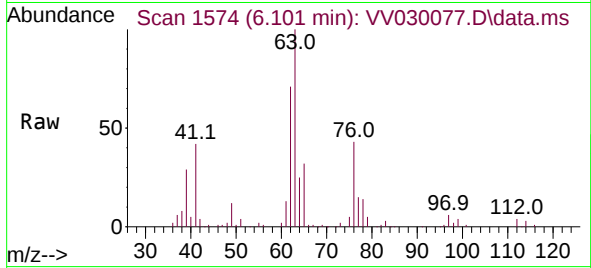




#37  
1,2-Dichloropropane  
Concen: 48.965 ug/L  
RT: 6.101 min Scan# 1  
Delta R.T. 0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

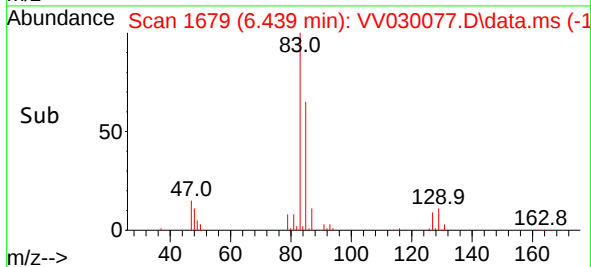
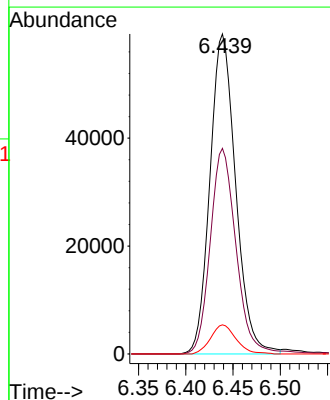
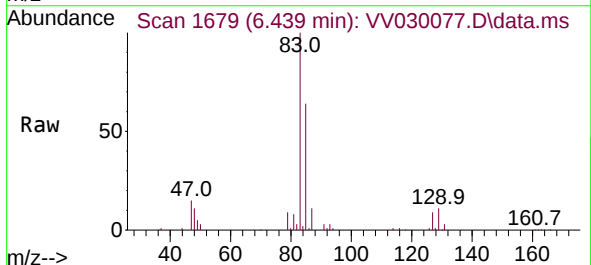
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

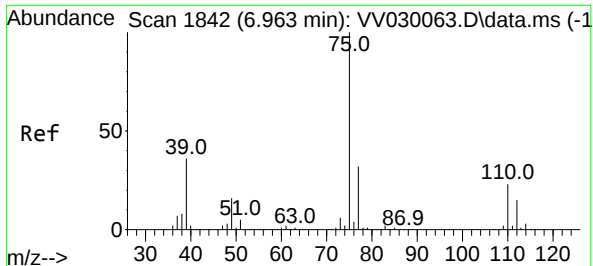
Tgt Ion: 63 Resp: 82829  
Ion Ratio Lower Upper  
63 100  
112 4.8 3.7 5.5



#38  
Bromodichloromethane  
Concen: 49.504 ug/L  
RT: 6.439 min Scan# 1679  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 83 Resp: 112476  
Ion Ratio Lower Upper  
83 100  
85 64.2 44.9 83.5  
127 9.1 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 46.972 ug/L

RT: 6.960 min Scan# 1842

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

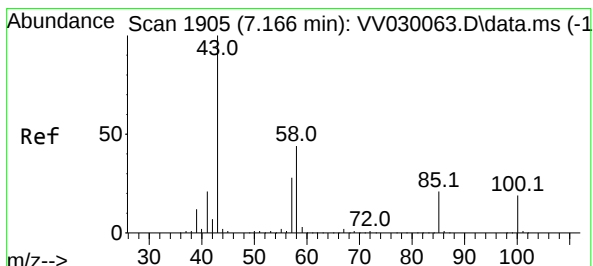
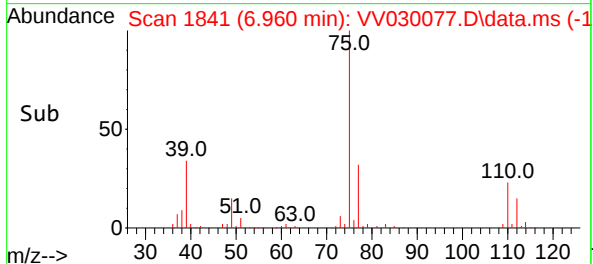
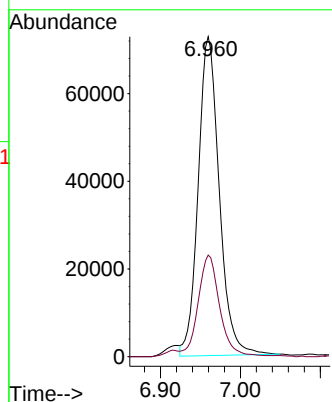
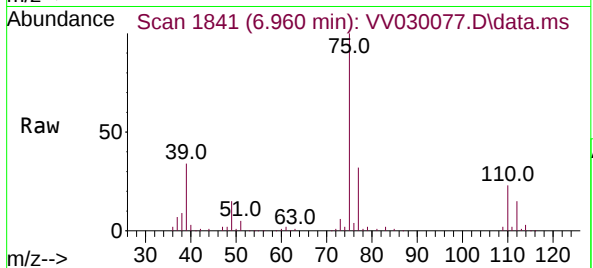
VSTD050285

Tgt Ion: 75 Resp: 133569

Ion Ratio Lower Upper

75 100

77 31.7 22.4 41.6



#40

4-Methyl-2-pentanone

Concen: 90.444 ug/L

RT: 7.165 min Scan# 1905

Delta R.T. 0.003 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

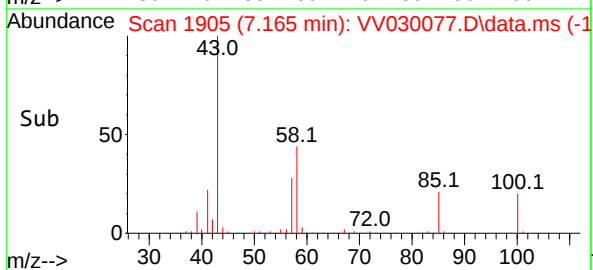
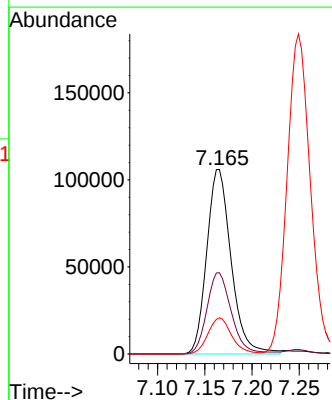
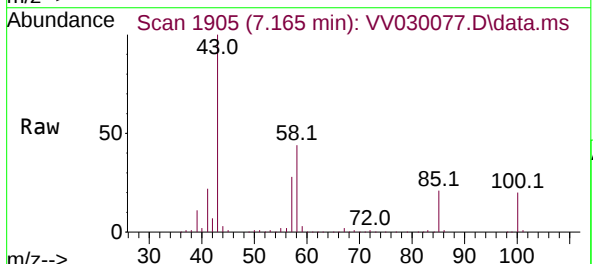
Tgt Ion: 43 Resp: 190202

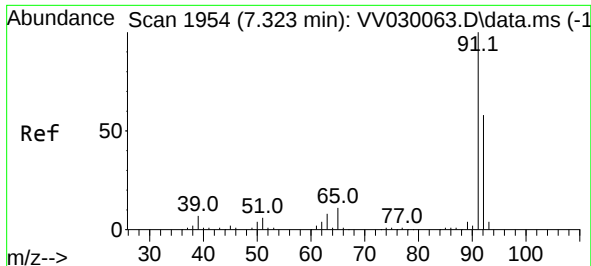
Ion Ratio Lower Upper

43 100

58 44.2 34.8 52.2

100 19.0 14.6 22.0





#42

Toluene

Concen: 48.962 ug/L

RT: 7.320 min Scan# 1953

Delta R.T. -0.003 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

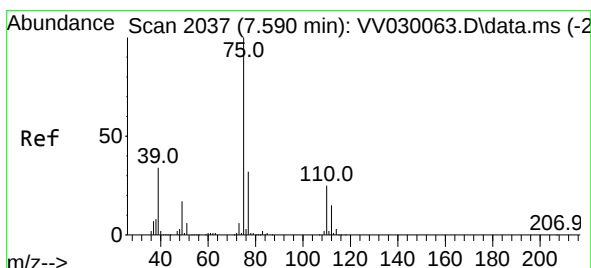
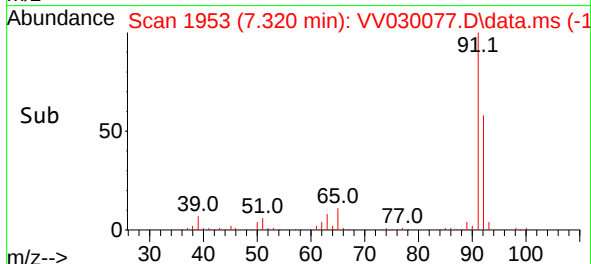
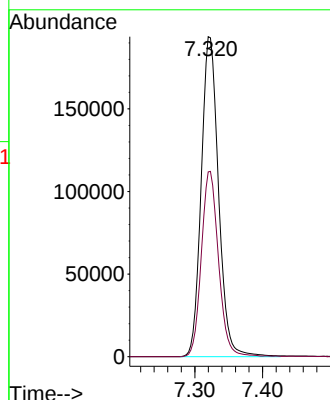
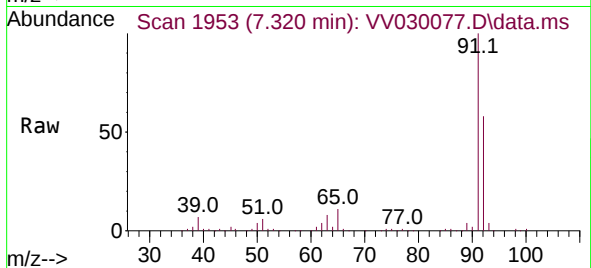
VSTD050285

Tgt Ion: 91 Resp: 344138

Ion Ratio Lower Upper

91 100

92 57.7 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 50.318 ug/L

RT: 7.587 min Scan# 2036

Delta R.T. 0.000 min

Lab File: VV030077.D

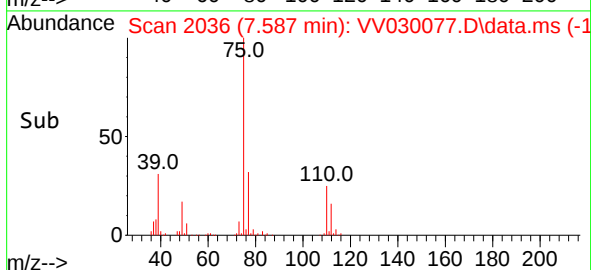
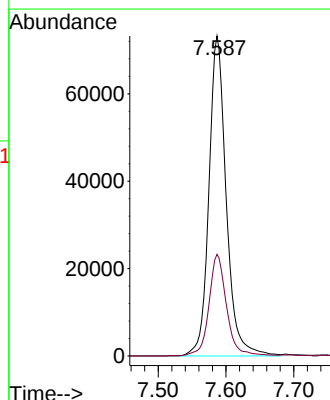
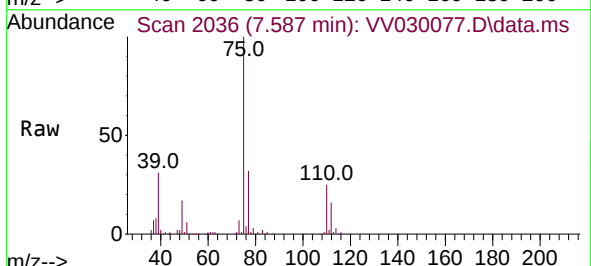
Acq: 22 Feb 2023 10:48

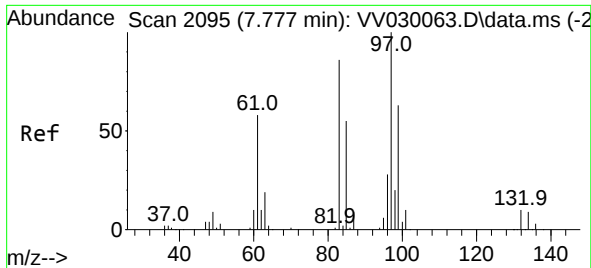
Tgt Ion: 75 Resp: 130126

Ion Ratio Lower Upper

75 100

77 31.8 22.3 41.5

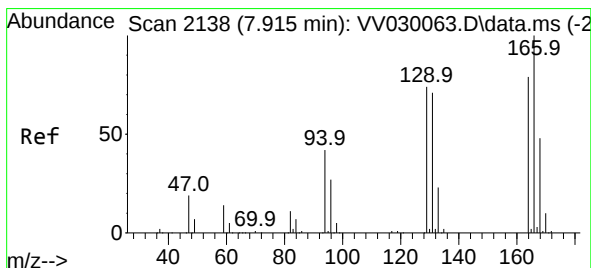
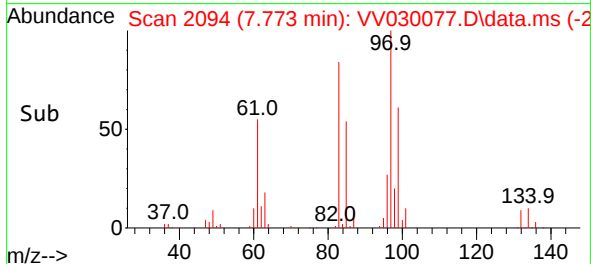
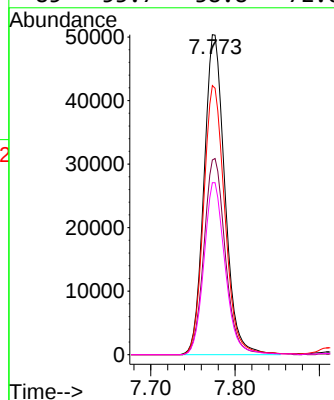
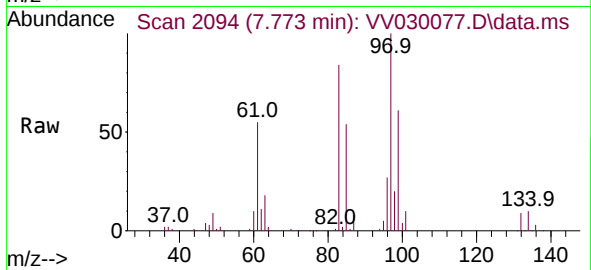




#45  
1,1,2-Trichloroethane  
Concen: 49.463 ug/L  
RT: 7.773 min Scan# 2095  
Delta R.T. -0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

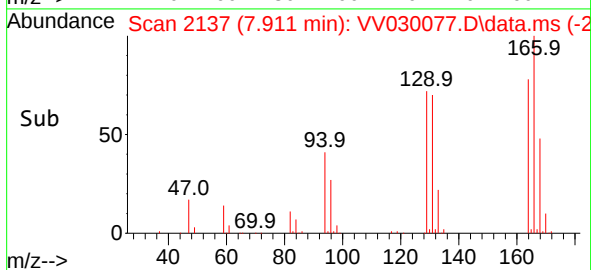
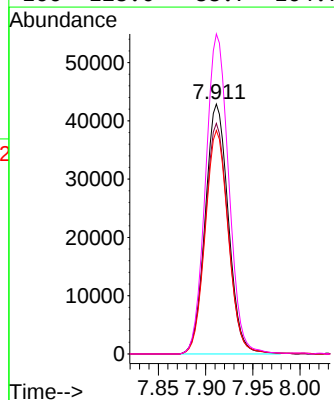
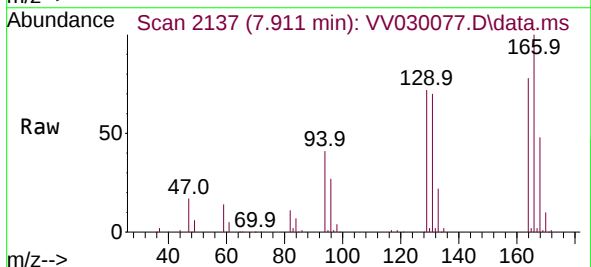
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

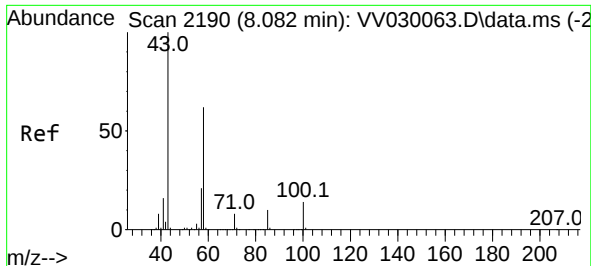
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 86840 |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 60.9     | 43.8 81.4   |
| 83 84.1     | 59.9 111.3  |
| 85 53.7     | 38.8 72.0   |



#46  
Tetrachloroethene  
Concen: 49.656 ug/L  
RT: 7.911 min Scan# 2137  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 72981 |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 129 | 92.2    | 65.2  | 121.0 |
| 131 | 89.4    | 63.1  | 117.3 |
| 166 | 128.0   | 88.7  | 164.7 |



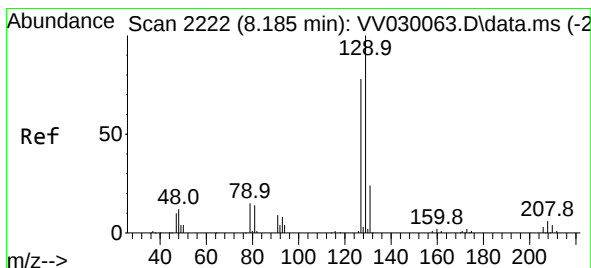
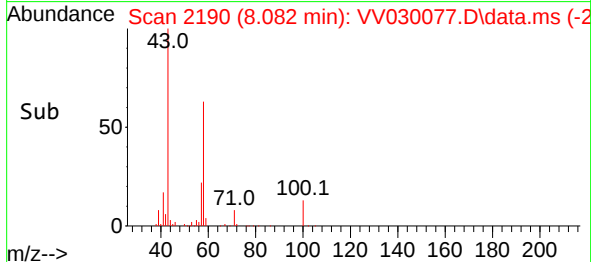
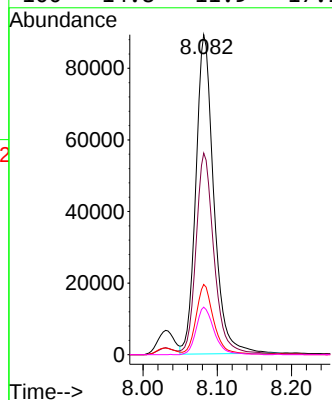
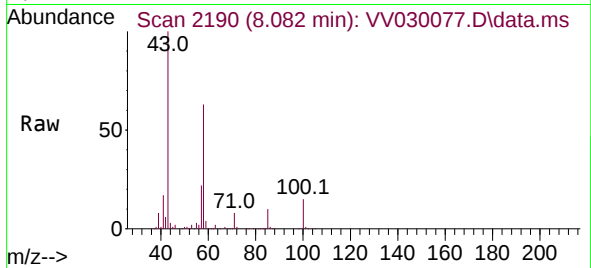


#48  
2-Hexanone  
Concen: 92.819 ug/L  
RT: 8.082 min Scan# 2190  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

Tgt Ion: 43 Resp: 150431

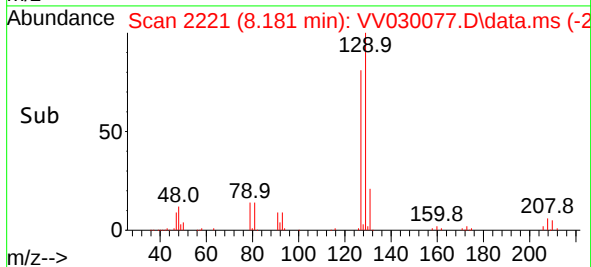
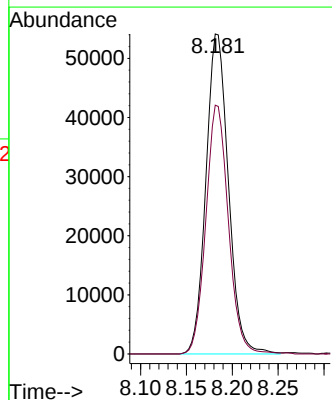
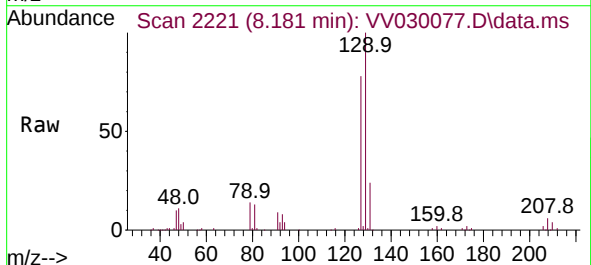
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 62.8  | 49.9  | 74.9  |
| 57  | 21.5  | 17.4  | 26.0  |
| 100 | 14.8  | 11.9  | 17.9  |

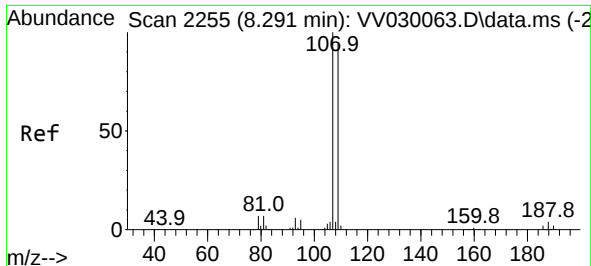


#49  
Dibromochloromethane  
Concen: 50.735 ug/L  
RT: 8.181 min Scan# 2221  
Delta R.T. -0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 129 Resp: 92350

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 77.7  | 54.9  | 102.1 |

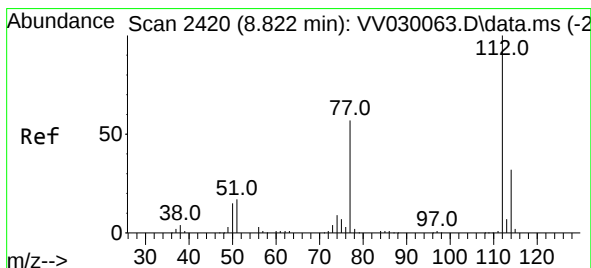
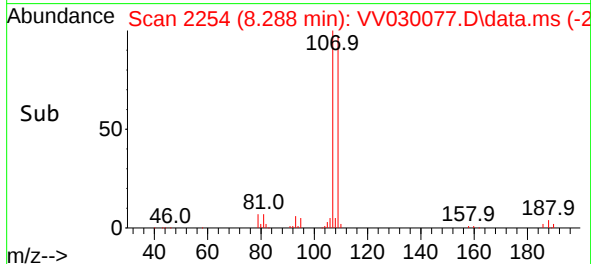
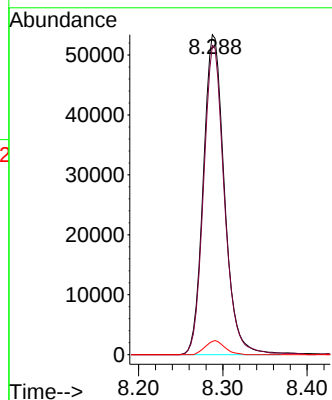
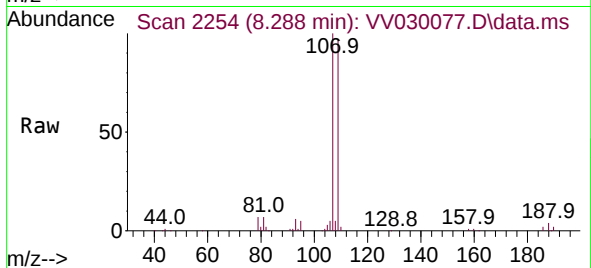




#50  
1,2-Dibromoethane  
Concen: 48.412 ug/L  
RT: 8.288 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

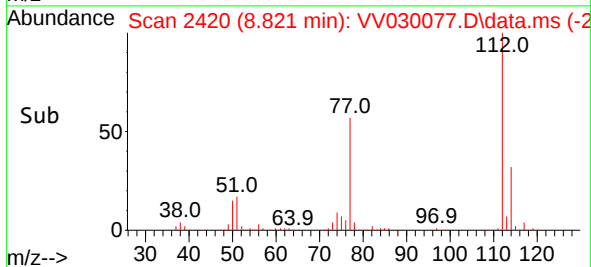
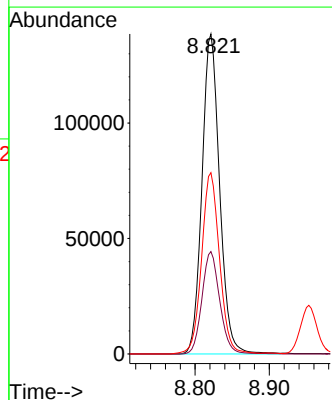
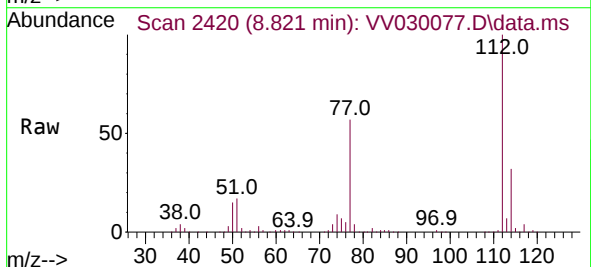
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

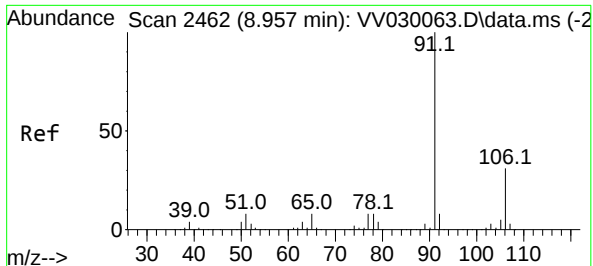
Tgt Ion:107 Resp: 93245  
Ion Ratio Lower Upper  
107 100  
109 96.6 66.0 122.6  
188 4.2 3.4 5.0



#51  
Chlorobenzene  
Concen: 48.808 ug/L  
RT: 8.821 min Scan# 2420  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion:112 Resp: 228624  
Ion Ratio Lower Upper  
112 100  
114 32.0 22.3 41.3  
77 56.6 46.0 69.0





#52

Ethylbenzene

Concen: 48.314 ug/L

RT: 8.953 min Scan# 2462

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

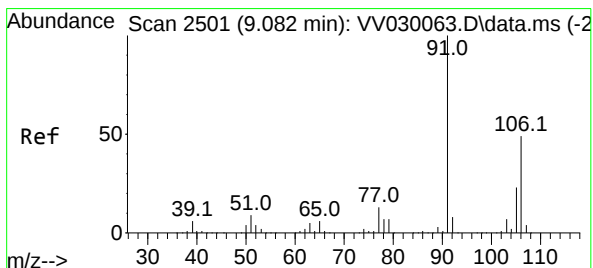
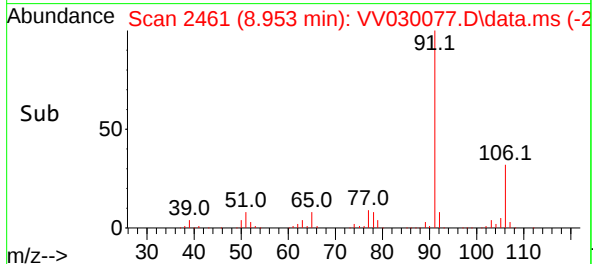
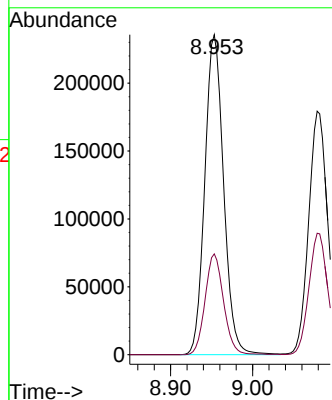
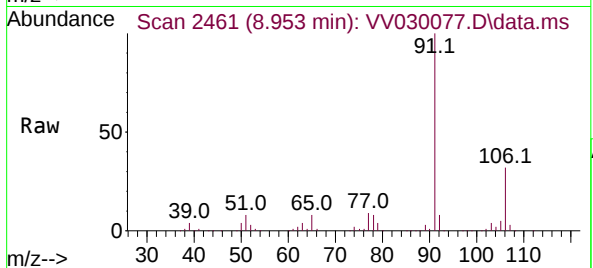
VSTD050285

Tgt Ion: 91 Resp: 375992

Ion Ratio Lower Upper

91 100

106 31.5 22.0 40.8



#53

m,p-Xylene

Concen: 48.422 ug/L

RT: 9.079 min Scan# 2500

Delta R.T. -0.003 min

Lab File: VV030077.D

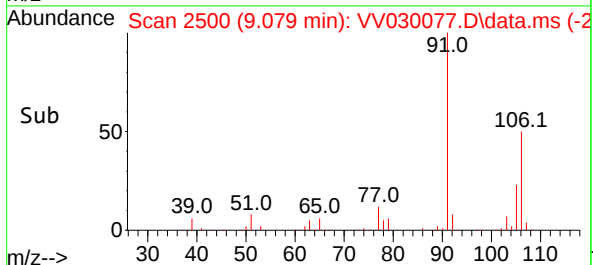
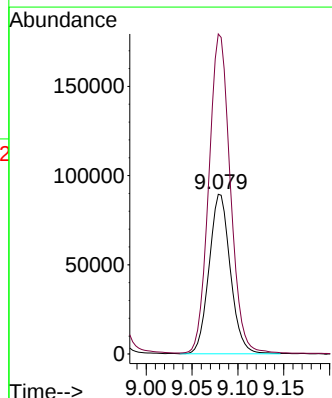
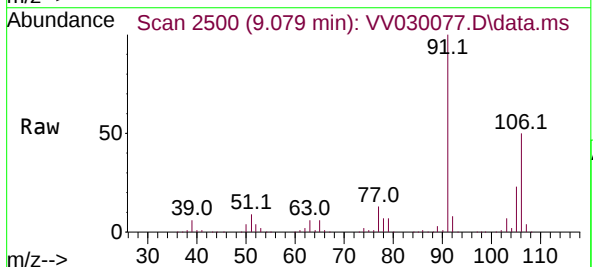
Acq: 22 Feb 2023 10:48

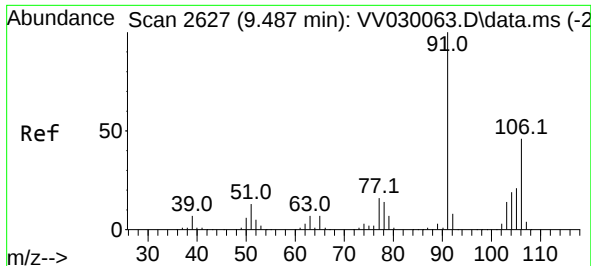
Tgt Ion: 106 Resp: 143973

Ion Ratio Lower Upper

106 100

91 200.5 142.0 263.8

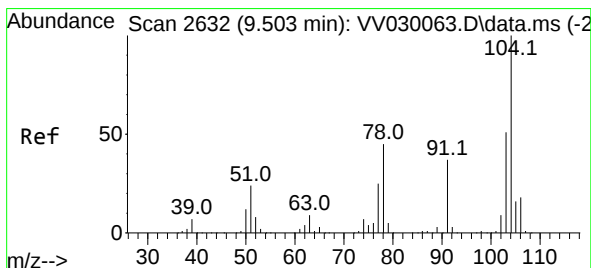
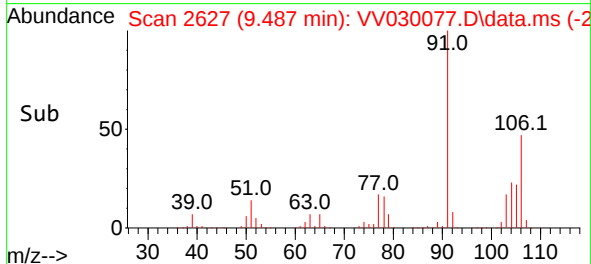
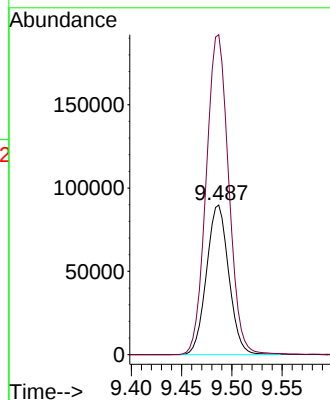
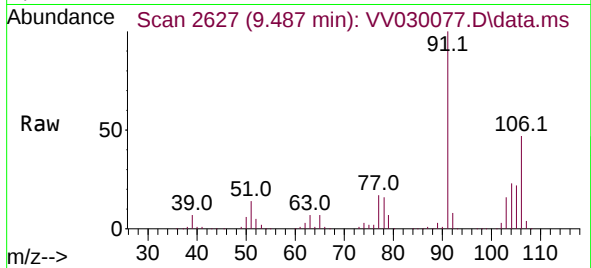




#54  
o-Xylene  
Concen: 48.416 ug/L  
RT: 9.487 min Scan# 2627  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

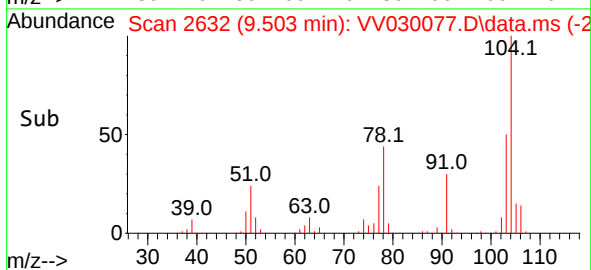
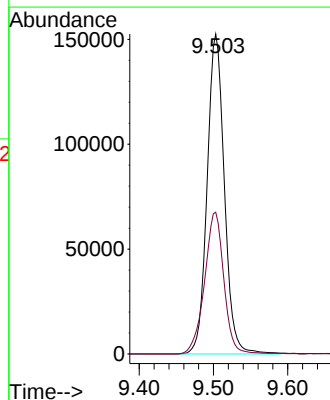
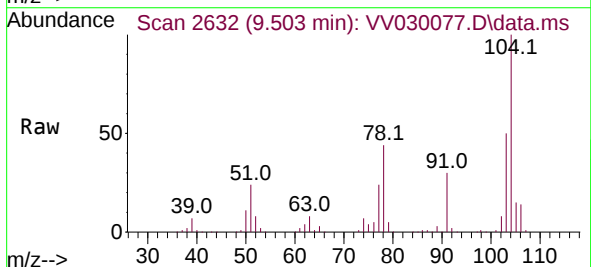
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

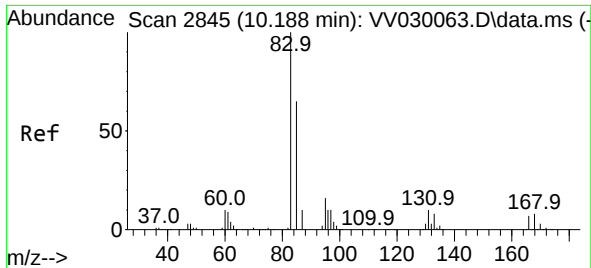
Tgt Ion:106 Resp: 138731  
Ion Ratio Lower Upper  
106 100  
91 213.8 151.5 281.3



#55  
Styrene  
Concen: 50.094 ug/L  
RT: 9.503 min Scan# 2632  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion:104 Resp: 245213  
Ion Ratio Lower Upper  
104 100  
78 44.3 31.9 59.2

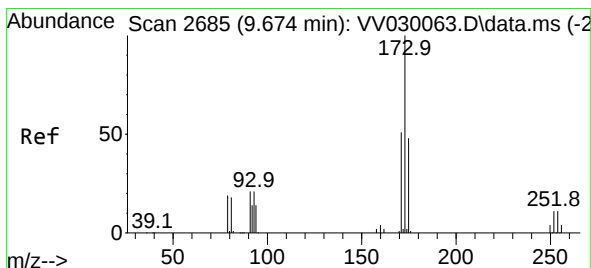
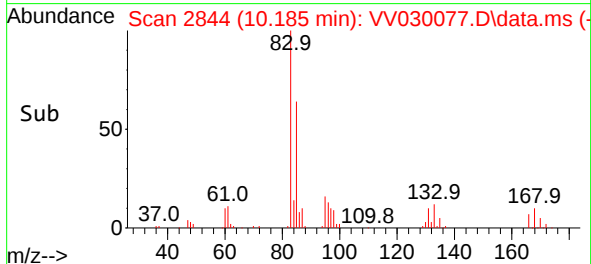
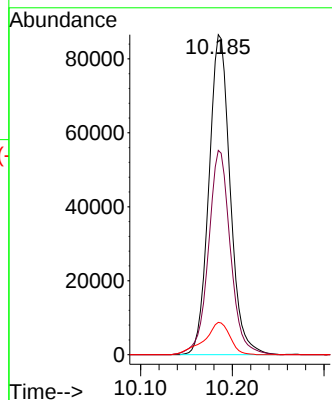
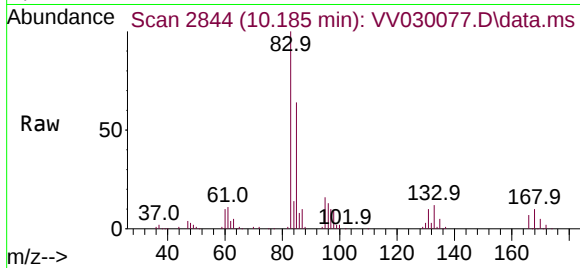




#57  
1,1,2,2-Tetrachloroethane  
Concen: 48.549 ug/L  
RT: 10.185 min Scan# 2845  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

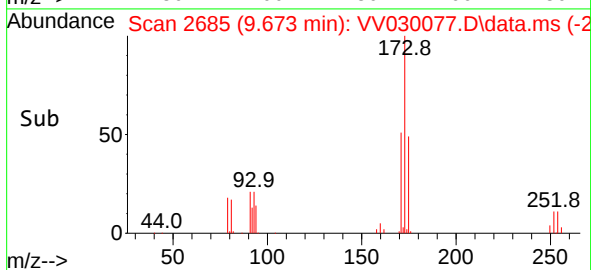
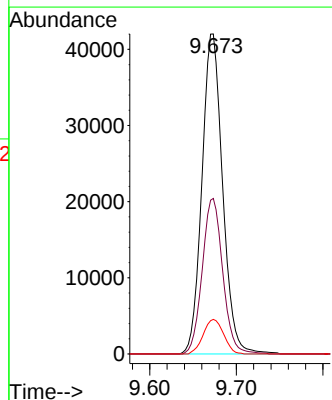
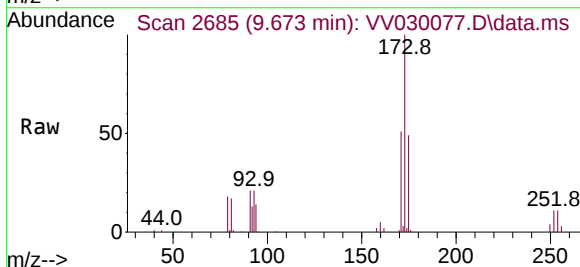
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

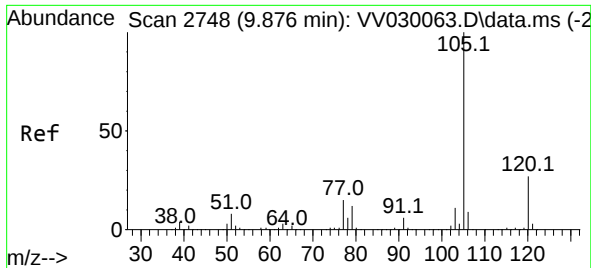
Tgt Ion: 83 Resp: 139334  
Ion Ratio Lower Upper  
83 100  
85 63.9 45.5 84.5  
131 10.1 8.3 12.5



#59  
Bromoform  
Concen: 52.568 ug/L  
RT: 9.673 min Scan# 2685  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 173 Resp: 69909  
Ion Ratio Lower Upper  
173 100  
175 48.0 38.7 58.1  
254 10.6 8.7 13.1

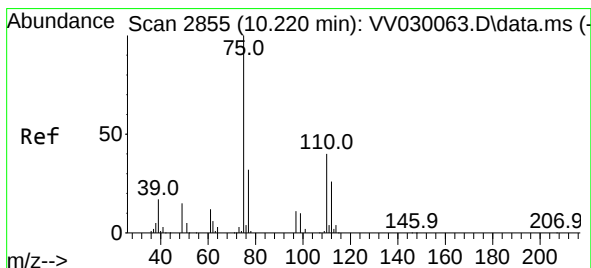
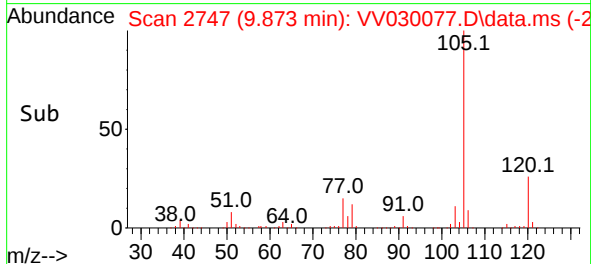
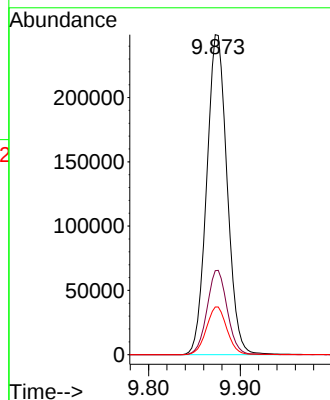
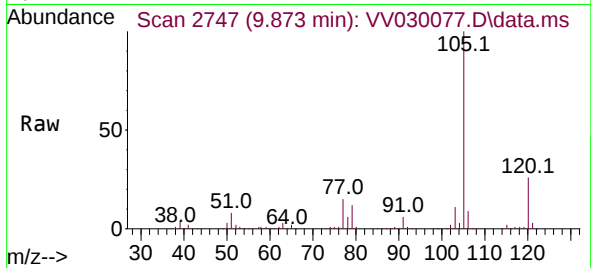




#60  
Isopropylbenzene  
Concen: 48.128 ug/L  
RT: 9.873 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

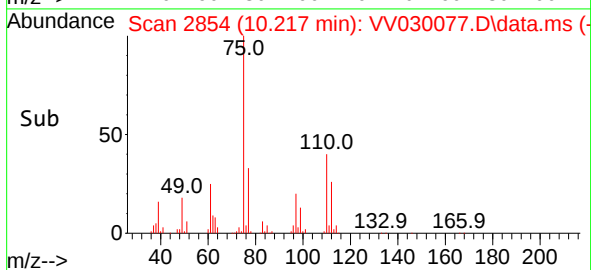
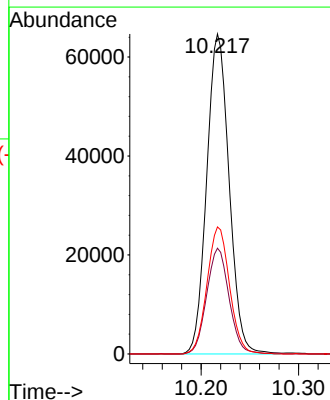
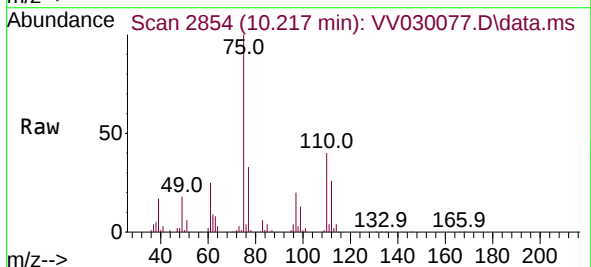
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

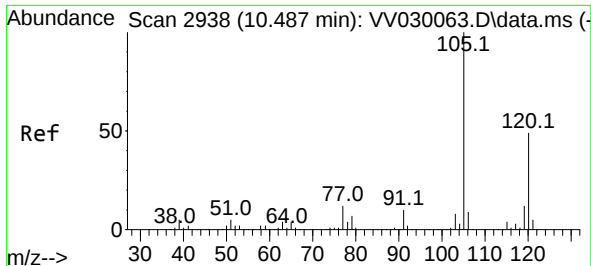
Tgt Ion:105 Resp: 384350  
Ion Ratio Lower Upper  
105 100  
120 26.2 21.4 32.0  
77 15.1 12.2 18.2



#61  
1,2,3-Trichloropropane  
Concen: 46.470 ug/L  
RT: 10.217 min Scan# 2854  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion: 75 Resp: 103254  
Ion Ratio Lower Upper  
75 100  
77 33.0 25.9 38.9  
110 40.0 32.1 48.1





#62

1,3,5-Trimethylbenzene

Concen: 47.728 ug/L

RT: 10.484 min Scan# 2938

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

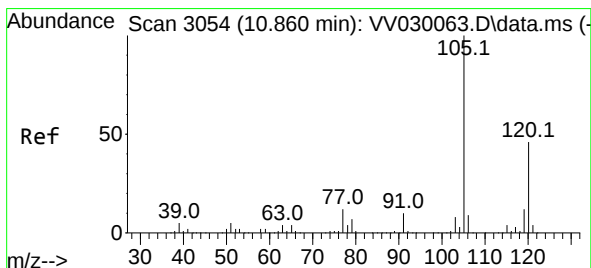
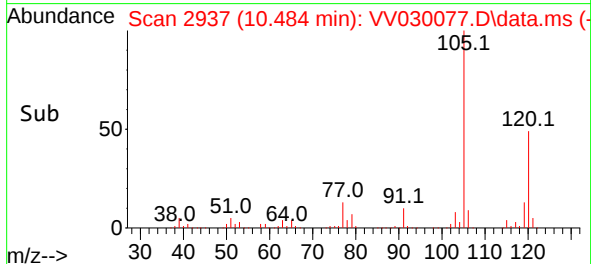
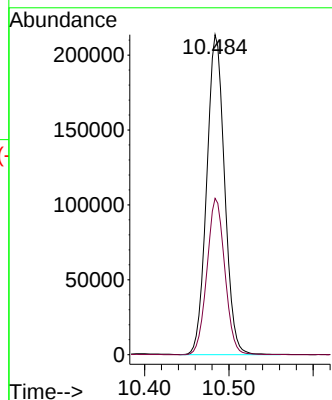
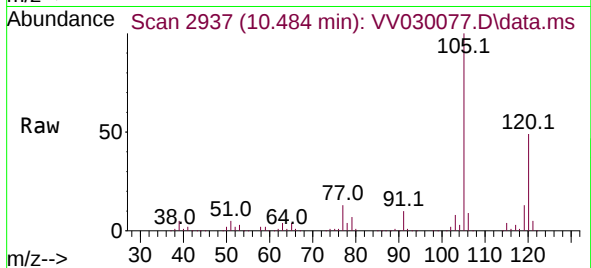
VSTD050285

Tgt Ion:105 Resp: 315677

Ion Ratio Lower Upper

105 100

120 48.8 39.0 58.4



#63

1,2,4-Trimethylbenzene

Concen: 47.583 ug/L

RT: 10.860 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VV030077.D

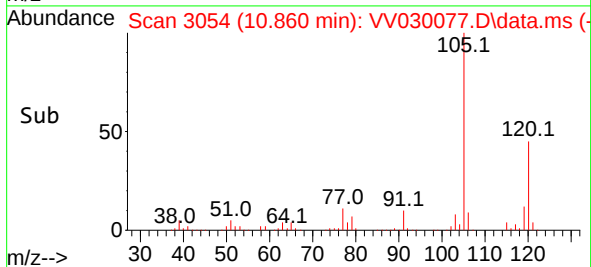
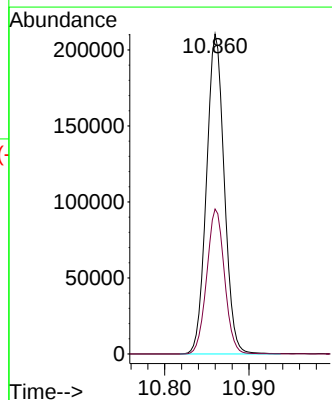
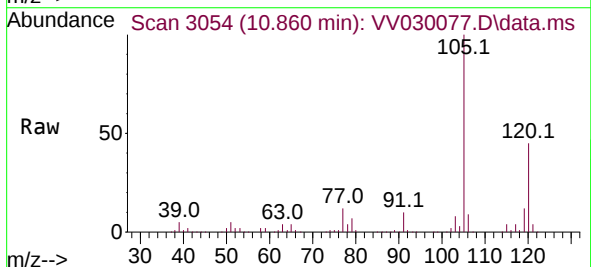
Acq: 22 Feb 2023 10:48

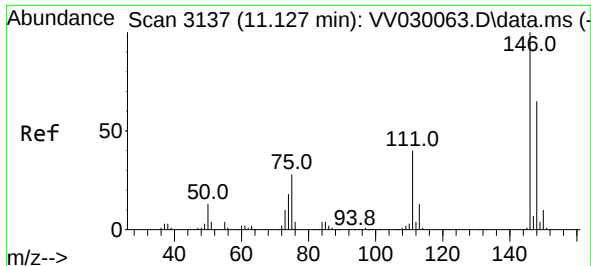
Tgt Ion:105 Resp: 309322

Ion Ratio Lower Upper

105 100

120 45.2 36.3 54.5

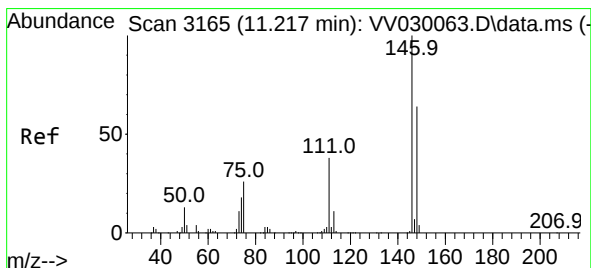
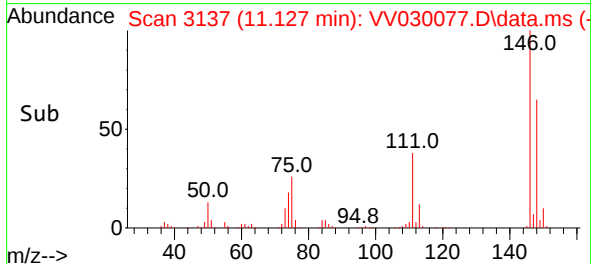
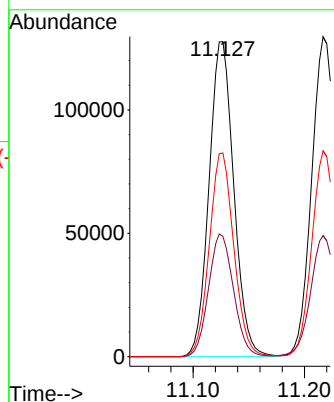
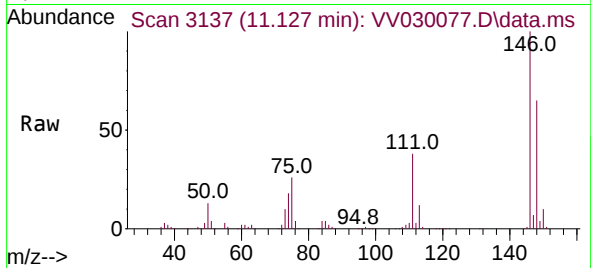




#64  
1,3-Dichlorobenzene  
Concen: 49.155 ug/L  
RT: 11.127 min Scan# 3137  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

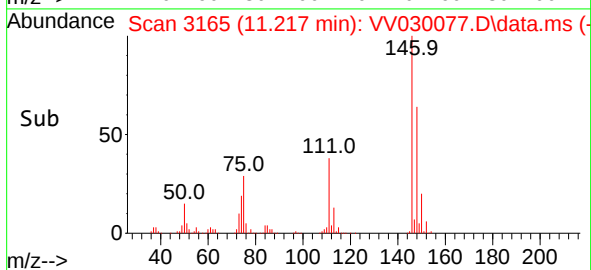
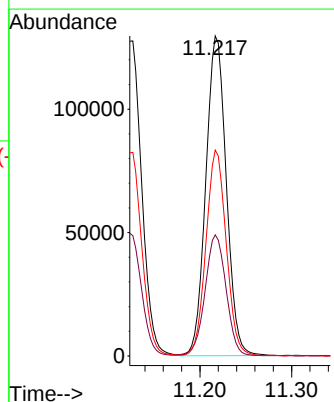
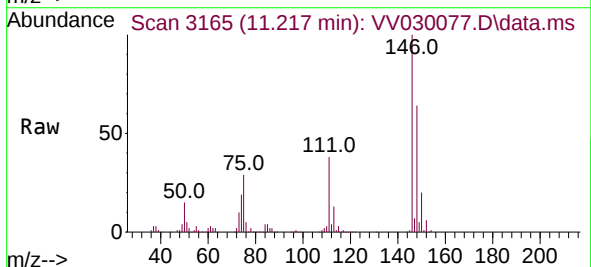
Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD050285

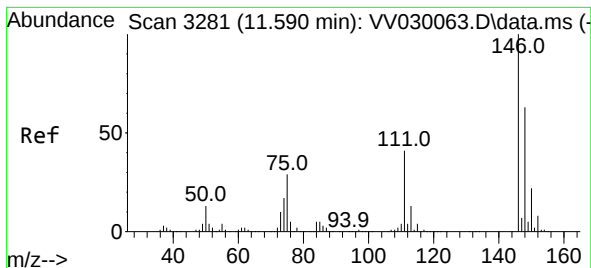
Tgt Ion:146 Resp: 197823  
Ion Ratio Lower Upper  
146 100  
111 38.2 28.2 52.4  
148 64.6 45.3 84.1



#65  
1,4-Dichlorobenzene  
Concen: 48.784 ug/L  
RT: 11.217 min Scan# 3165  
Delta R.T. 0.000 min  
Lab File: VV030077.D  
Acq: 22 Feb 2023 10:48

Tgt Ion:146 Resp: 200890  
Ion Ratio Lower Upper  
146 100  
111 37.8 27.1 50.3  
148 64.3 44.9 83.5





#67

1,2-Dichlorobenzene

Concen: 48.785 ug/L

RT: 11.586 min Scan# 31

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050285

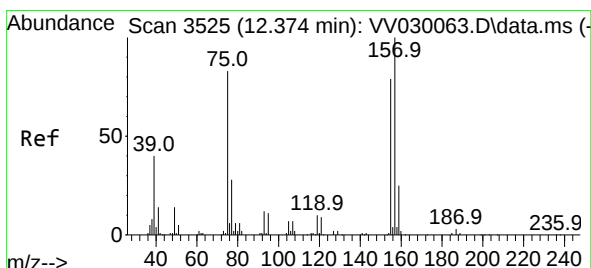
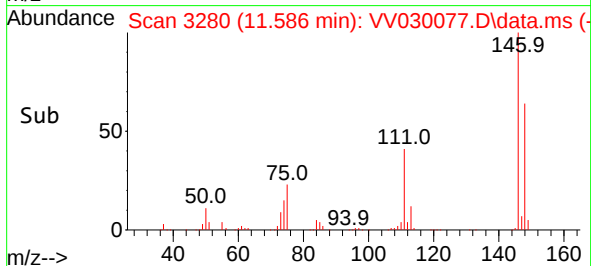
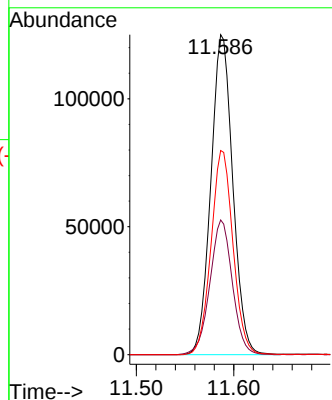
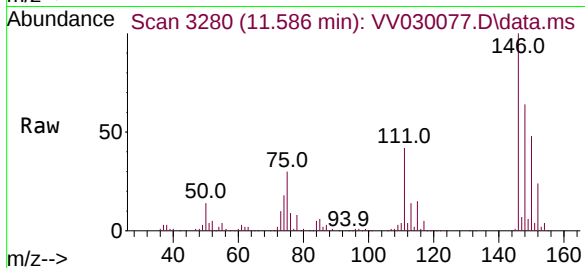
Tgt Ion:146 Resp: 195477

Ion Ratio Lower Upper

146 100

111 42.1 33.0 49.4

148 63.8 50.7 76.1



#68

1,2-Dibromo-3-chloropropane

Concen: 42.752 ug/L

RT: 12.374 min Scan# 3525

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

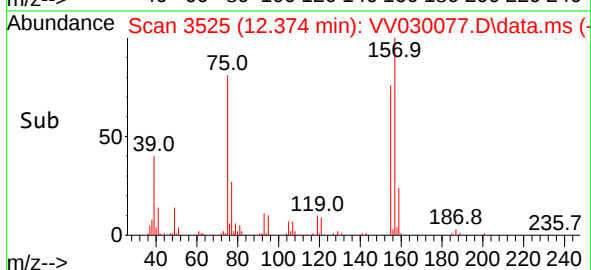
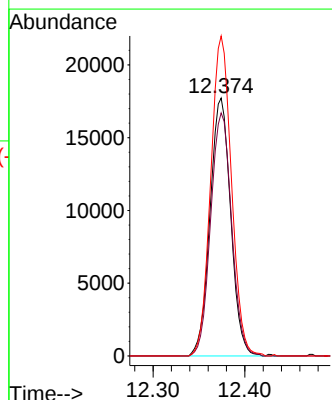
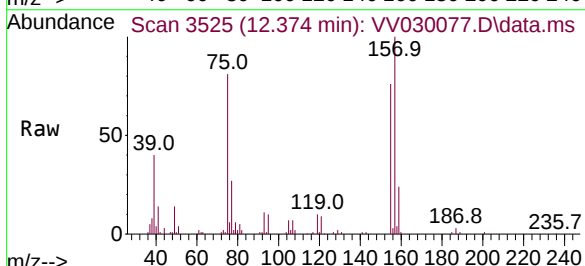
Tgt Ion: 75 Resp: 27714

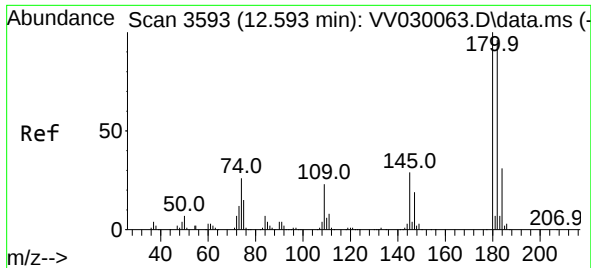
Ion Ratio Lower Upper

75 100

155 94.2 76.2 114.2

157 124.1 96.0 144.0

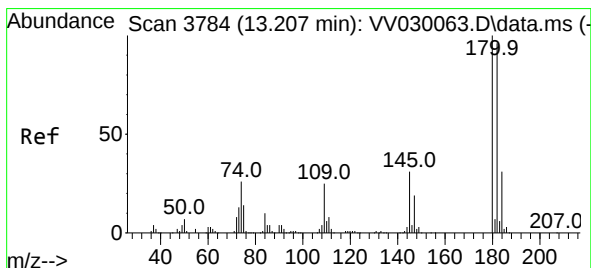
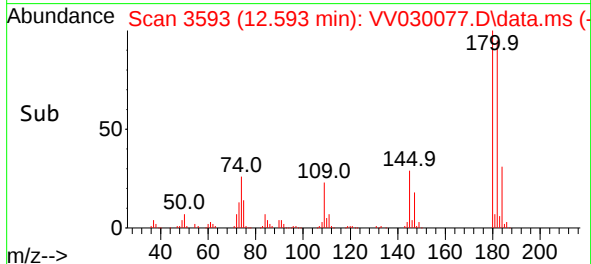
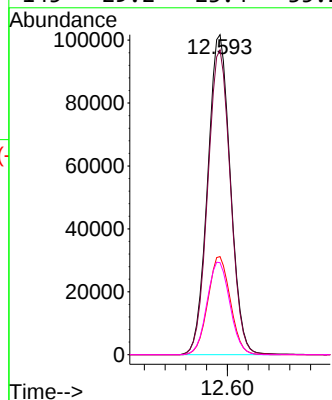
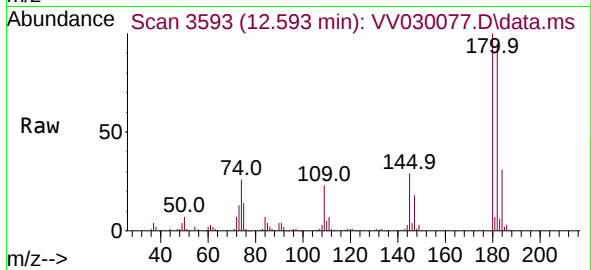




#69  
 1,3,5-Trichlorobenzene  
 Concen: 48.083 ug/L  
 RT: 12.593 min Scan# 3593  
 Delta R.T. 0.000 min  
 Lab File: VV030077.D  
 Acq: 22 Feb 2023 10:48

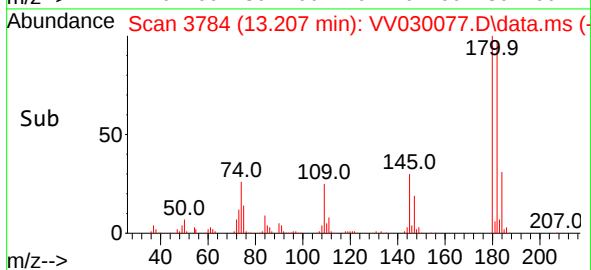
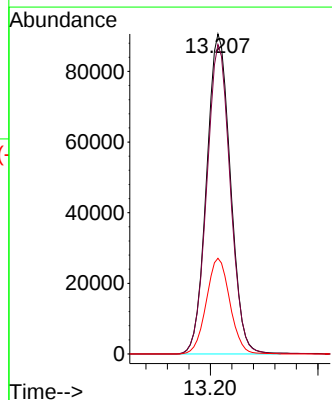
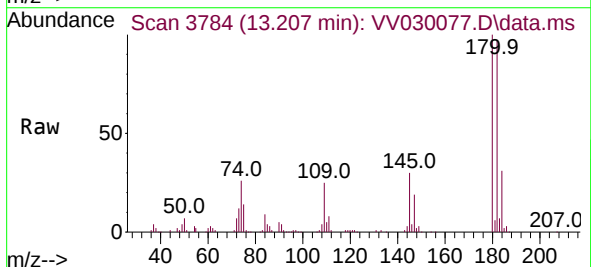
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD050285

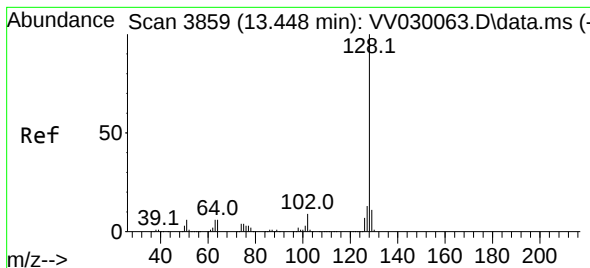
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 154418     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.1  | 76.4 114.6 |
| 184         | 30.3  | 24.5 36.7  |
| 145         | 29.2  | 23.4 35.2  |



#70  
 1,2,4-trichlorobenzene  
 Concen: 46.032 ug/L  
 RT: 13.207 min Scan# 3784  
 Delta R.T. 0.000 min  
 Lab File: VV030077.D  
 Acq: 22 Feb 2023 10:48

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 138950     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.5  | 76.6 114.8 |
| 145         | 29.6  | 24.3 36.5  |





#71

Naphthalene

Concen: 42.448 ug/L

RT: 13.448 min Scan# 3859

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Instrument :

MSVOA\_V

ClientSampleId :

VSTD050285

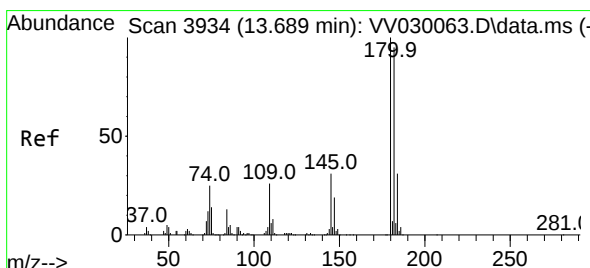
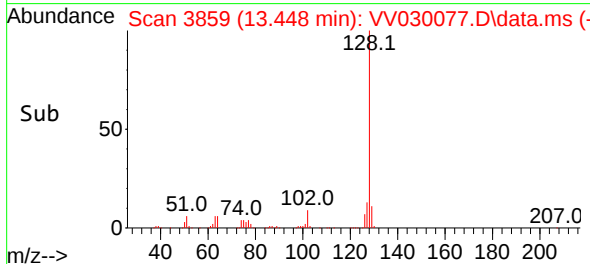
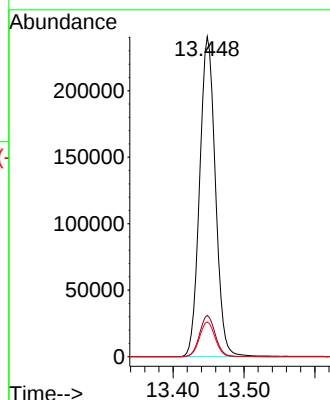
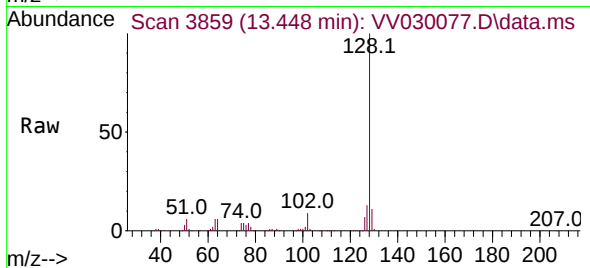
Tgt Ion:128 Resp: 371655

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

129 10.7 8.8 13.2



#72

1,2,3-Trichlorobenzene

Concen: 46.394 ug/L

RT: 13.689 min Scan# 3934

Delta R.T. 0.000 min

Lab File: VV030077.D

Acq: 22 Feb 2023 10:48

Tgt Ion:180 Resp: 137438

Ion Ratio Lower Upper

180 100

182 95.6 75.8 113.8

145 31.1 25.0 37.6

