

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW110521\  
 Data File : VW023223.D  
 Acq On : 05 Nov 2021 11:39  
 Operator : SY/MD  
 Sample : M4492-04  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 08 03:13:56 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR110421WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Nov 08 03:09:01 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon           | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|---------|----------|----------|
| -----                         |        |                |          |         |          |          |
| Internal Standards            |        |                |          |         |          |          |
| 1) 1,4-Difluorobenzene        | 5.619  | 114            | 139782   | 5.000   | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 8.854  | 117            | 130452   | 5.000   | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.249 | 152            | 61640    | 5.000   | ug/L     | 0.00     |
| System Monitoring Compounds   |        |                |          |         |          |          |
| 4) Vinyl Chloride-d3          | 1.307  | 65             | 42963    | 4.906   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 40 - 130 | Recovery | =       | 98.200%  |          |
| 7) Chloroethane-d5            | 1.568  | 69             | 37159    | 5.207   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 130 | Recovery | =       | 104.200% |          |
| 11) 1,1-Dichloroethene-d2     | 2.111  | 63             | 69672    | 4.250   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 125 | Recovery | =       | 85.000%  |          |
| 20) 2-Butanone-d5             | 3.902  | 46             | 73461    | 55.525  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000 | Range 40 - 130 | Recovery | =       | 111.040% |          |
| 24) Chloroform-d              | 4.352  | 84             | 91522    | 4.904   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =       | 98.000%  |          |
| 26) 1,2-Dichloroethane-d4     | 5.037  | 65             | 44227    | 5.270   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =       | 105.400% |          |
| 32) Benzene-d6                | 5.053  | 84             | 182001   | 5.437   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 125 | Recovery | =       | 108.800% |          |
| 36) 1,2-Dichloropropane-d6    | 6.072  | 67             | 56329    | 5.717   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 60 - 140 | Recovery | =       | 114.400% |          |
| 41) Toluene-d8                | 7.317  | 98             | 156154   | 4.978   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 70 - 130 | Recovery | =       | 99.600%  |          |
| 43) trans-1,3-Dichloroprop... | 7.625  | 79             | 18929    | 5.066   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 55 - 130 | Recovery | =       | 101.400% |          |
| 46) 2-Hexanone-d5             | 8.092  | 63             | 66590    | 48.443  | ug/L     | 0.00     |
| Spiked Amount                 | 50.000 | Range 45 - 130 | Recovery | =       | 96.880%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.217 | 84             | 36742    | 5.185   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 65 - 120 | Recovery | =       | 103.800% |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.625 | 152            | 59619    | 5.809   | ug/L     | 0.00     |
| Spiked Amount                 | 5.000  | Range 80 - 120 | Recovery | =       | 116.200% |          |
| Target Compounds              |        |                |          |         |          |          |
|                               |        |                |          |         | Qvalue   |          |
| 3) Chloromethane              | 1.240  | 50             | 1635     | 0.141   | ug/L     | 93       |
| 5) Vinyl chloride             | 1.311  | 62             | 6368     | 0.550   | ug/L     | 92       |
| 8) Chloroethane               | 1.584  | 64             | 905      | 0.135   | ug/L     | 87       |
| 12) 1,1-Dichloroethene        | 2.121  | 96             | 17911    | 2.149   | ug/L #   | 60       |
| 18) trans-1,2-Dichloroethene  | 2.767  | 96             | 4675     | 0.456   | ug/L     | 96       |
| 19) 1,1-Dichloroethane        | 3.195  | 63             | 61541    | 3.557   | ug/L     | 97       |
| 22) cis-1,2-Dichloroethene    | 3.912  | 96             | 352774   | 35.773  | ug/L     | 99       |
| 27) 1,2-Dichloroethane        | 5.130  | 62             | 86144    | 8.782   | ug/L     | 99       |
| 30) Cyclohexane               | 4.677  | 56             | 1310     | 0.092   | ug/L     | 85       |
| 33) Benzene                   | 5.098  | 78             | 1955599  | 53.634  | ug/L     | 100      |
| 34) Trichloroethene           | 5.921  | 95             | 8685739  | 895.789 | ug/L     | 97       |
| 35) Methylcyclohexane         | 6.072  | 83             | 13922    | 0.910   | ug/L #   | 21       |
| 37) 1,2-Dichloropropane       | 6.069  | 63             | 6485     | 0.762   | ug/L #   | 85       |
| 42) Toluene                   | 7.397  | 91             | 10039    | 0.257   | ug/L     | 98       |
| 47) Tetrachloroethene         | 7.979  | 164            | 15045    | 1.790   | ug/L     | 98       |
| 48) 2-Hexanone                | 8.146  | 43             | 3437     | 1.214   | ug/L #   | 83       |
| 49) Dibromochloromethane      | 7.979  | 129            | 12703    | 1.639   | ug/L #   | 11       |
| 51) Chlorobenzene             | 8.883  | 112            | 149743   | 5.777   | ug/L     | 99       |
| 52) Ethylbenzene              | 9.018  | 91             | 11600    | 0.282   | ug/L     | 97       |

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 Sample : M4492-04  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 08 03:13:56 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR110421WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Mon Nov 08 03:09:01 2021  
 Response via : Initial Calibration

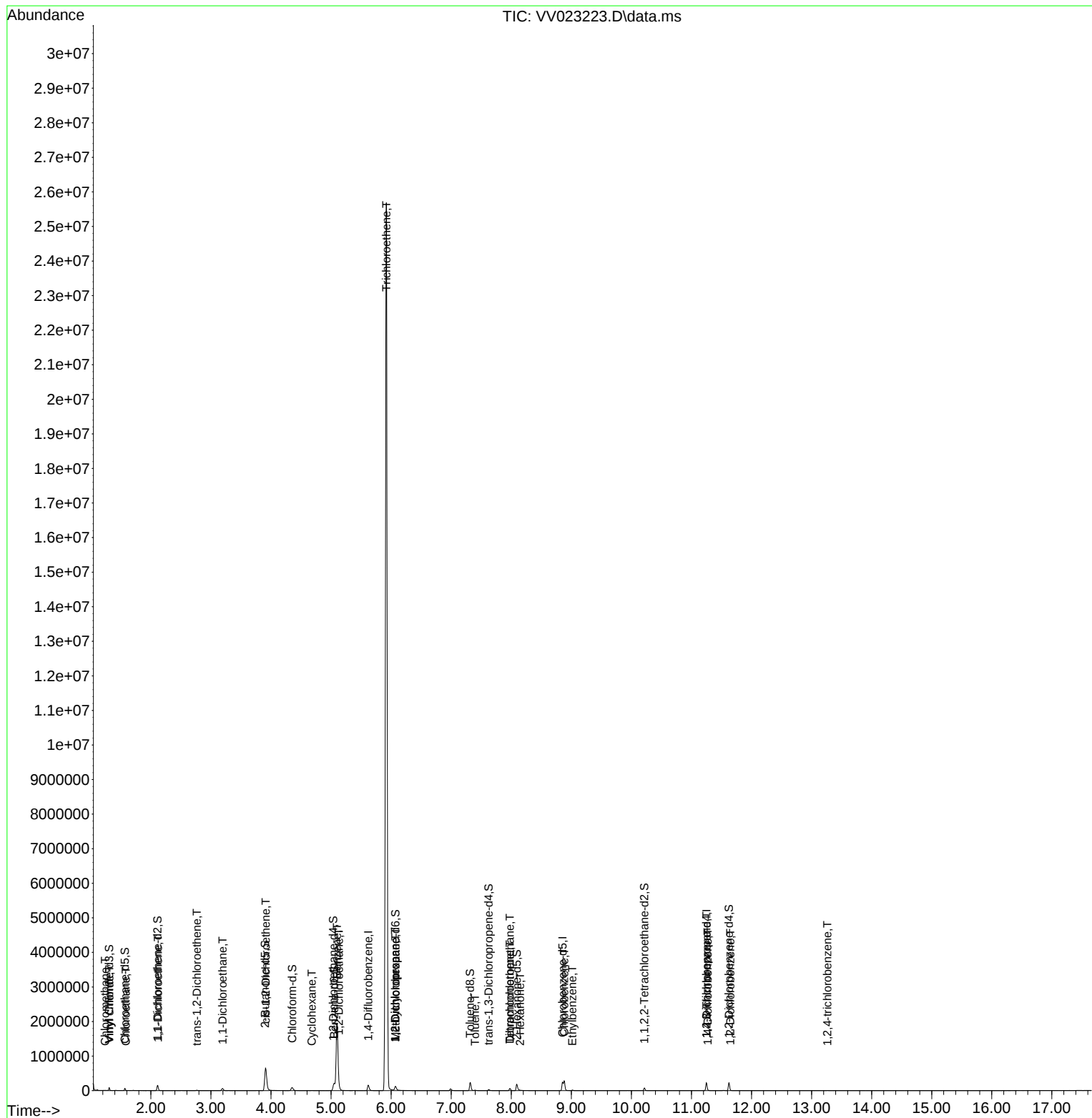
| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 61) 1,2,3-Trichloropropane | 11.249 | 75   | 7507     | 1.833 | ug/L # | 40       |
| 65) 1,4-Dichlorobenzene    | 11.272 | 146  | 2323     | 0.126 | ug/L   | 92       |
| 67) 1,2-Dichlorobenzene    | 11.648 | 146  | 1494     | 0.092 | ug/L   | 94       |
| 70) 1,2,4-trichlorobenzene | 13.265 | 180  | 1269     | 0.112 | ug/L   | 97       |

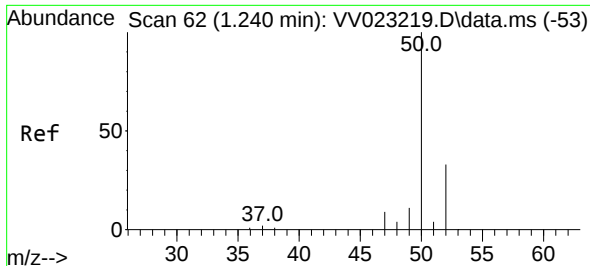
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

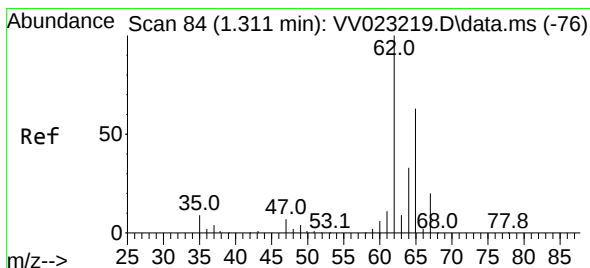
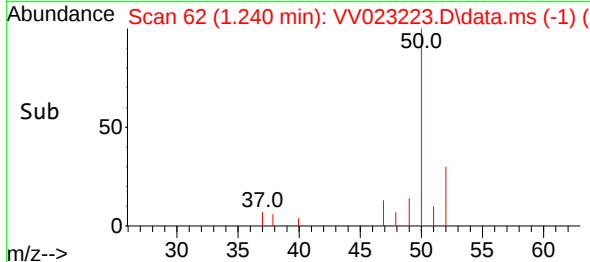
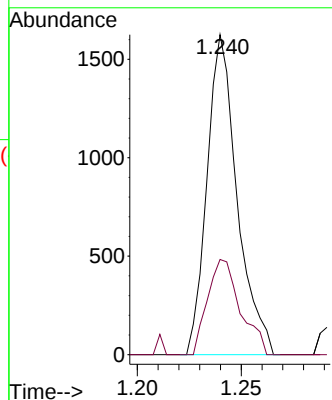
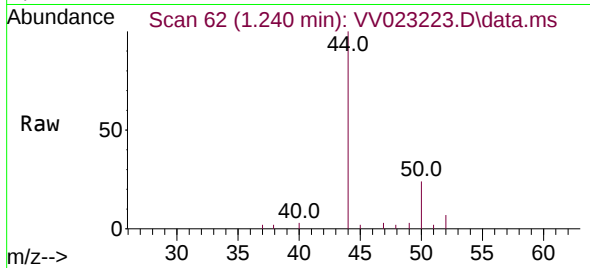




#3  
Chloromethane  
Concen: 0.141 ug/L  
RT: 1.240 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

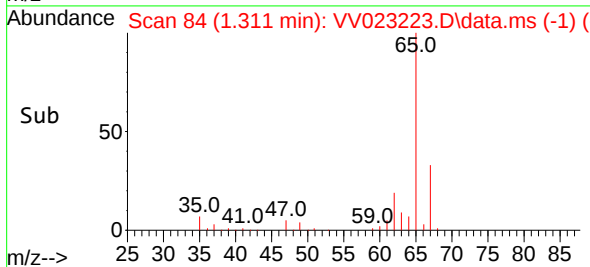
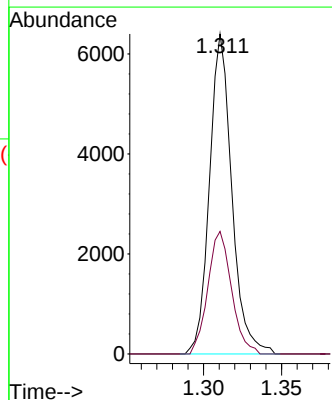
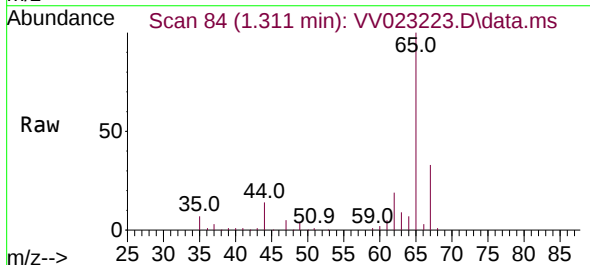
Instrument :  
MSVOA\_V  
ClientSampleId :

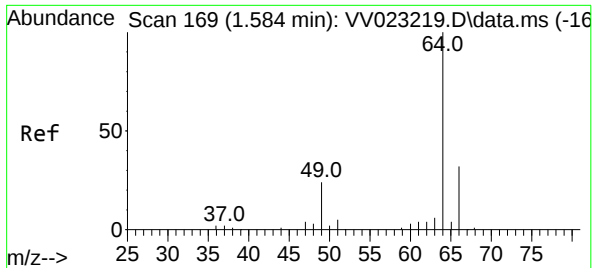
Tgt Ion: 50 Resp: 1635  
Ion Ratio Lower Upper  
50 100  
52 29.7 23.7 43.9



#5  
Vinyl chloride  
Concen: 0.550 ug/L  
RT: 1.311 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

Tgt Ion: 62 Resp: 6368  
Ion Ratio Lower Upper  
62 100  
64 38.3 23.7 43.9

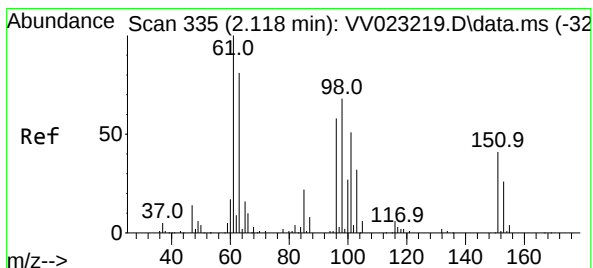
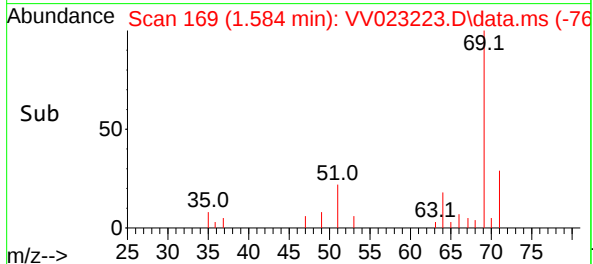
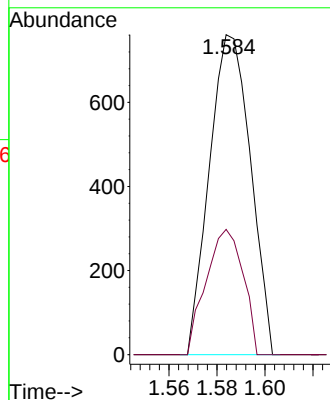
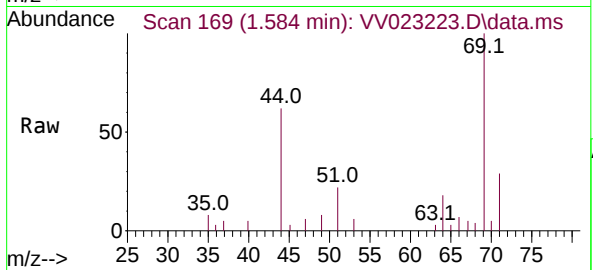




#8  
Chloroethane  
Concen: 0.135 ug/L  
RT: 1.584 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

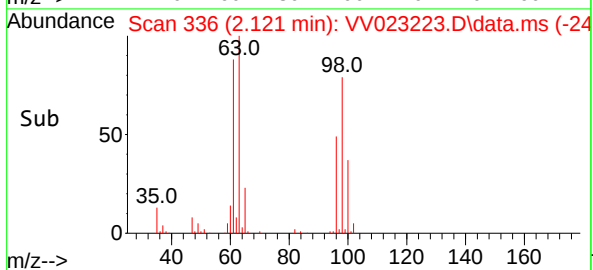
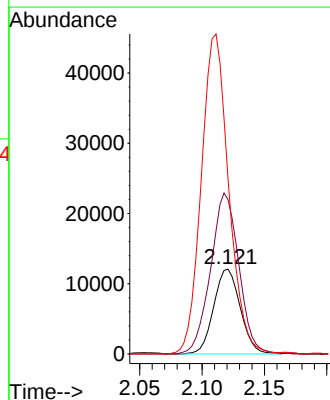
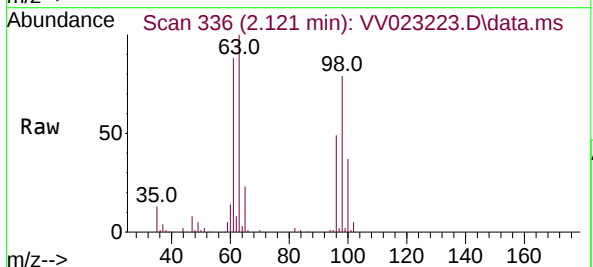
Instrument :  
MSVOA\_V  
ClientSampleId :

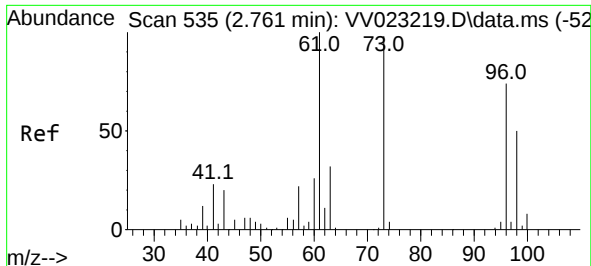
Tgt Ion: 64 Resp: 905  
Ion Ratio Lower Upper  
64 100  
66 39.2 22.4 41.6



#12  
1,1-Dichloroethene  
Concen: 2.149 ug/L  
RT: 2.121 min Scan# 336  
Delta R.T. 0.003 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

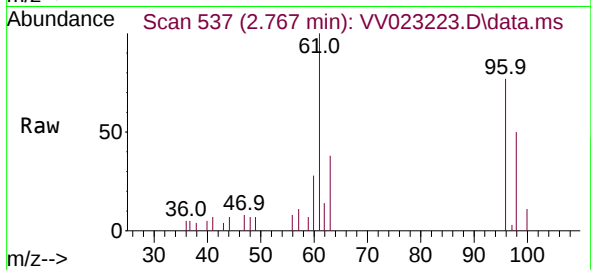
Tgt Ion: 96 Resp: 17911  
Ion Ratio Lower Upper  
96 100  
61 182.0 117.7 218.7  
63 206.1 80.5 149.5#



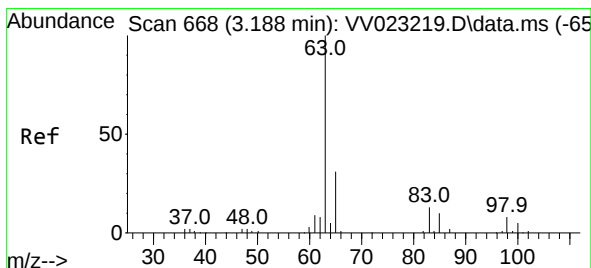
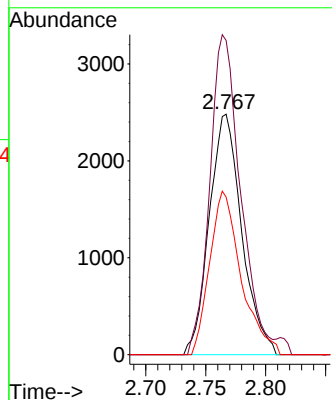
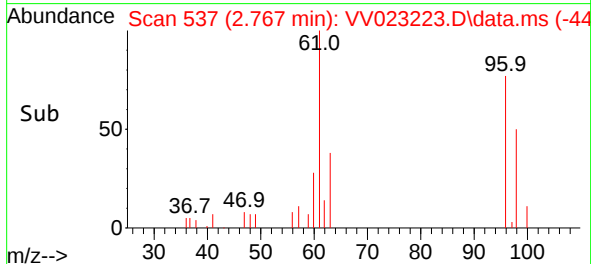


#18  
trans-1,2-Dichloroethene  
Concen: 0.456 ug/L  
RT: 2.767 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

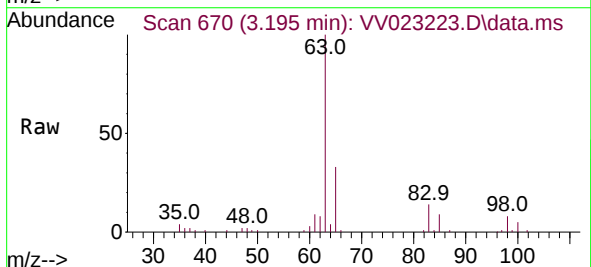
Instrument :  
MSVOA\_V  
ClientSampleId :



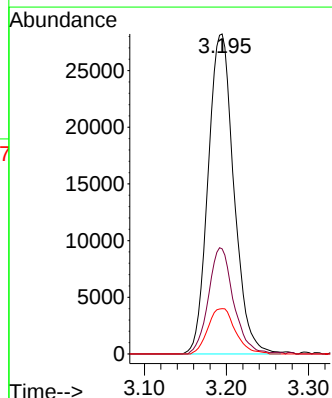
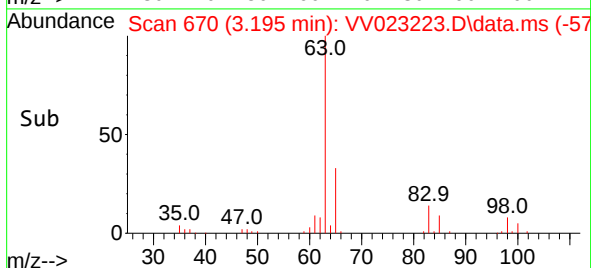
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 4675  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 130.7 | 89.2  | 165.6 |
| 98       | 65.5  | 41.9  | 77.9  |

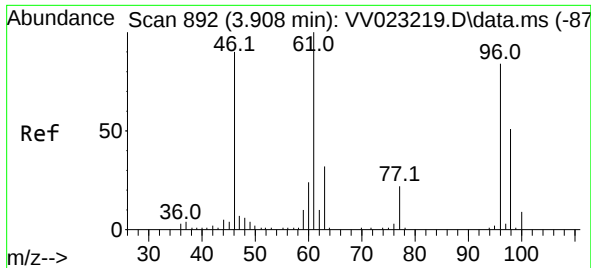


#19  
1,1-Dichloroethane  
Concen: 3.557 ug/L  
RT: 3.195 min Scan# 670  
Delta R.T. 0.006 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 61541 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 65       | 32.9  | 21.6  | 40.2  |
| 83       | 14.2  | 9.8   | 18.2  |

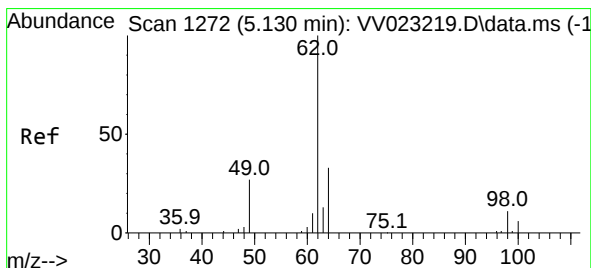
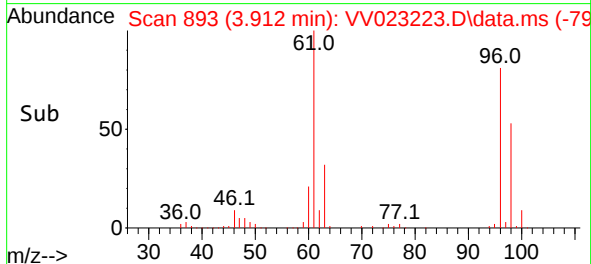
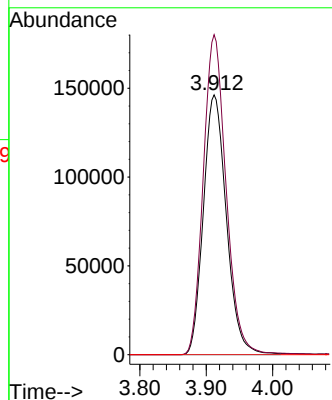
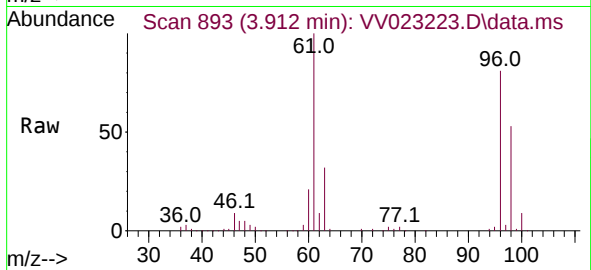




#22  
 cis-1,2-Dichloroethene  
 Concen: 35.773 ug/L  
 RT: 3.912 min Scan# 892  
 Delta R.T. 0.003 min  
 Lab File: VV023223.D  
 Acq: 05 Nov 2021 11:39

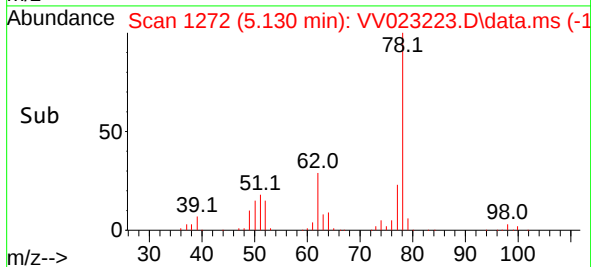
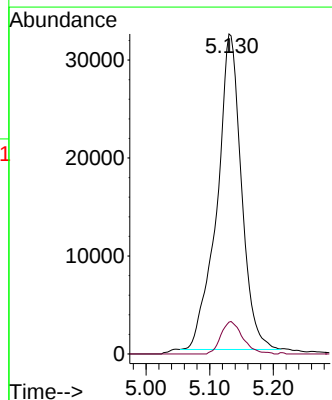
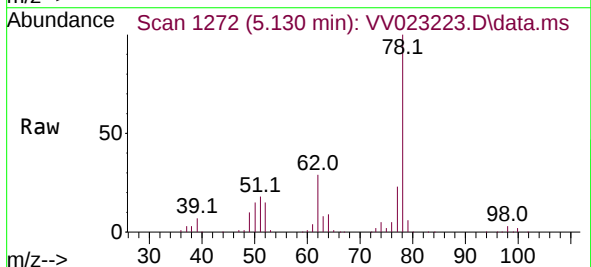
Instrument :  
 MSVOA\_V  
 ClientSampleId :

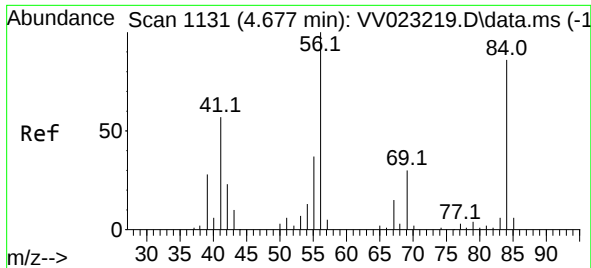
Tgt Ion: 96 Resp: 352774  
 Ion Ratio Lower Upper  
 96 100  
 61 123.1 86.7 160.9  
 68 0.0 0.0 0.0



#27  
 1,2-Dichloroethane  
 Concen: 8.782 ug/L  
 RT: 5.130 min Scan# 1272  
 Delta R.T. 0.000 min  
 Lab File: VV023223.D  
 Acq: 05 Nov 2021 11:39

Tgt Ion: 62 Resp: 86144  
 Ion Ratio Lower Upper  
 62 100  
 98 9.9 8.2 12.2

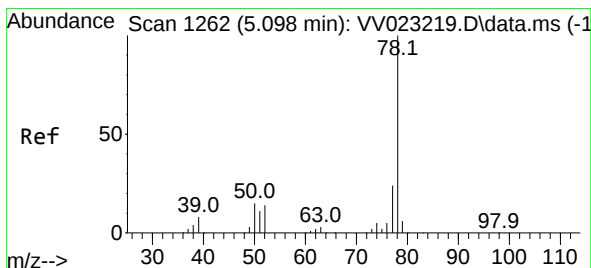
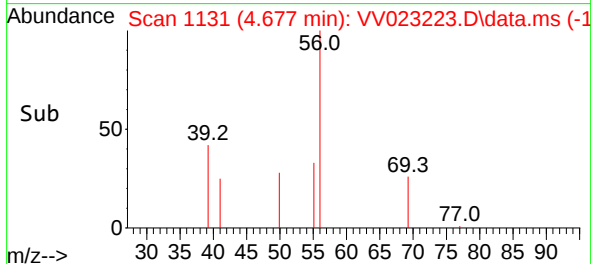
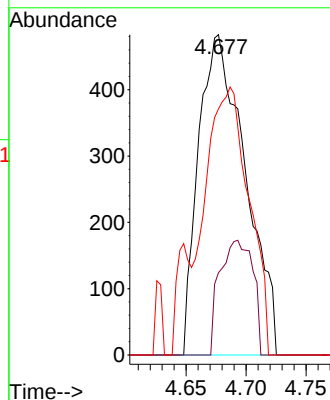
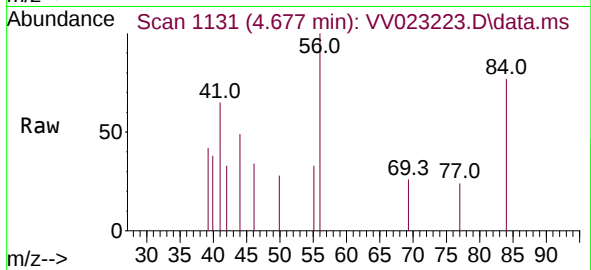




#30  
Cyclohexane  
Concen: 0.092 ug/L  
RT: 4.677 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

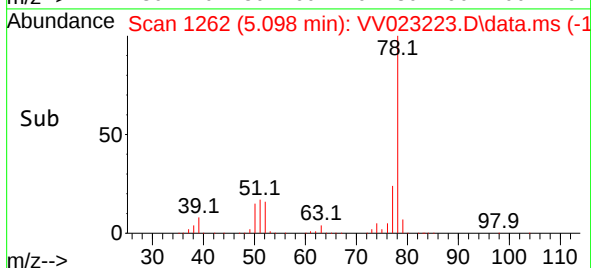
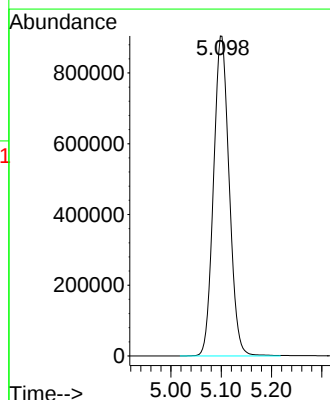
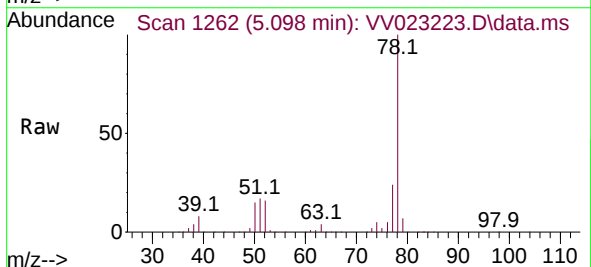
Instrument :  
MSVOA\_V  
ClientSampleId :

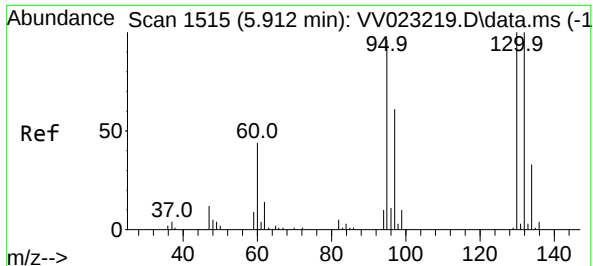
Tgt Ion: 56 Resp: 1310  
Ion Ratio Lower Upper  
56 100  
69 25.3 24.7 37.1  
84 76.7 73.8 110.6



#33  
Benzene  
Concen: 53.634 ug/L  
RT: 5.098 min Scan# 1262  
Delta R.T. 0.000 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

Tgt Ion: 78 Resp: 1955599



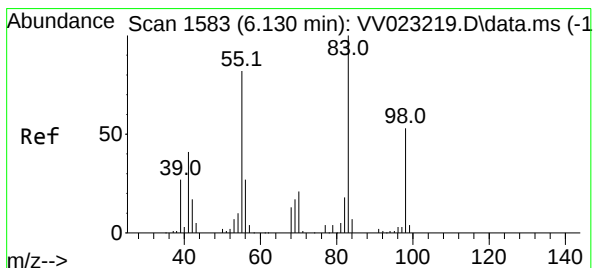
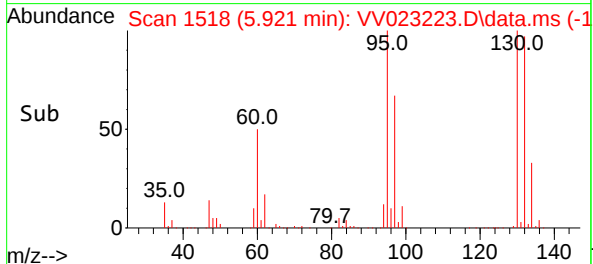
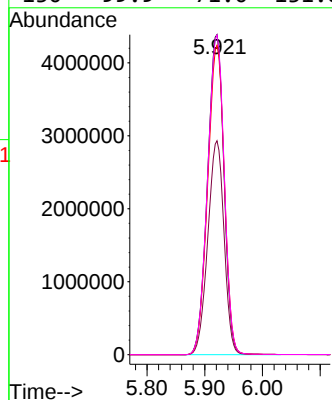
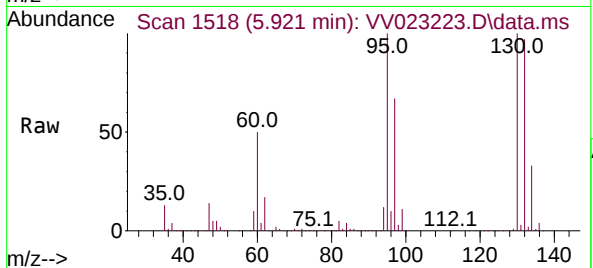


#34  
Trichloroethene  
Concen: 895.789 ug/L  
RT: 5.921 min Scan# 1515  
Delta R.T. 0.010 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

Instrument :  
MSVOA\_V  
ClientSampleId :

Tgt Ion: 95 Resp: 8685739

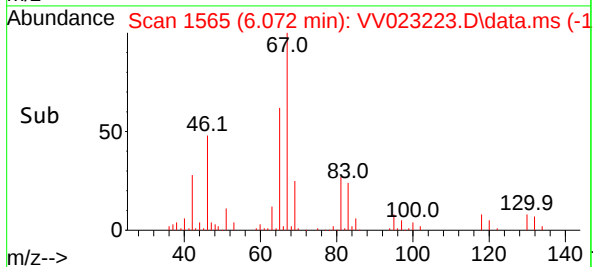
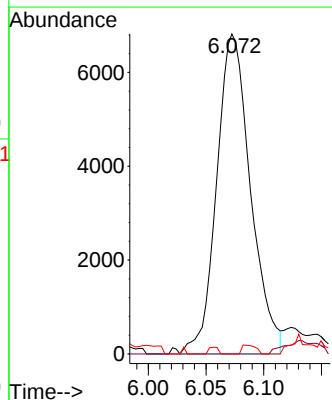
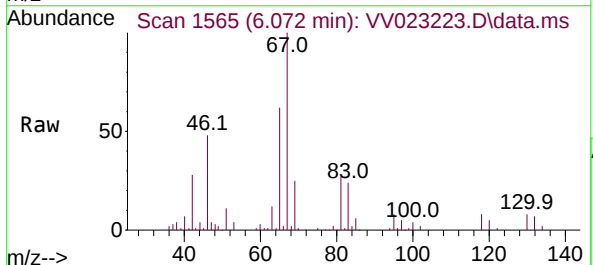
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.8  | 43.3  | 80.5  |
| 132 | 96.7  | 70.0  | 130.0 |
| 130 | 99.9  | 71.0  | 131.8 |

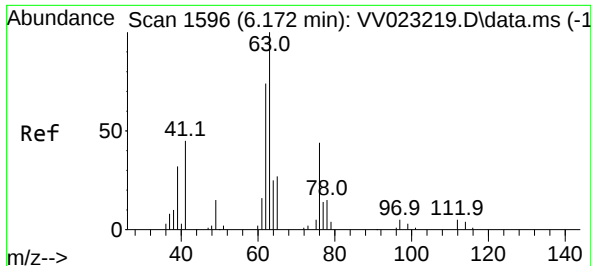


#35  
Methylcyclohexane  
Concen: 0.910 ug/L  
RT: 6.072 min Scan# 1565  
Delta R.T. -0.058 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

Tgt Ion: 83 Resp: 13922

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 4.0   | 59.6  | 89.4# |
| 98  | 0.0   | 40.6  | 61.0# |





#37

1,2-Dichloropropane

Concen: 0.762 ug/L

RT: 6.069 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV023223.D

Acq: 05 Nov 2021 11:39

Instrument :

MSVOA\_V

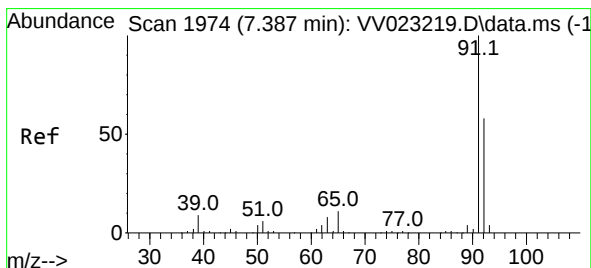
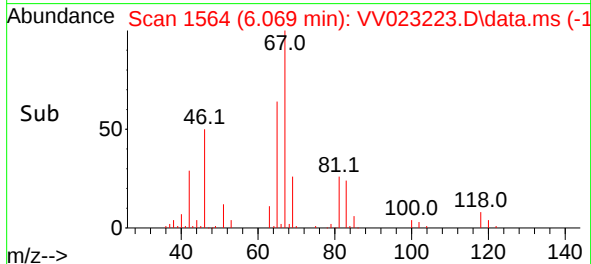
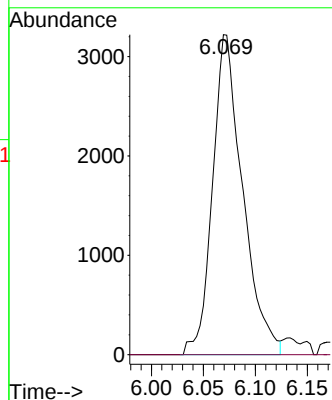
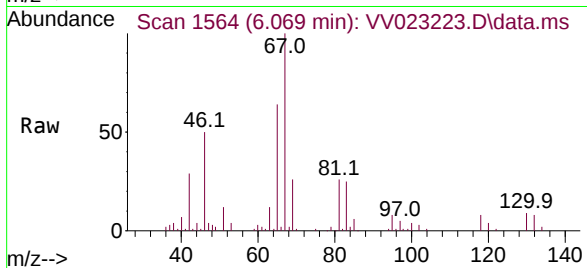
ClientSampleId :

Tgt Ion: 63 Resp: 6485

Ion Ratio Lower Upper

63 100

112 0.7 4.5 6.7#



#42

Toluene

Concen: 0.257 ug/L

RT: 7.397 min Scan# 1977

Delta R.T. 0.010 min

Lab File: VV023223.D

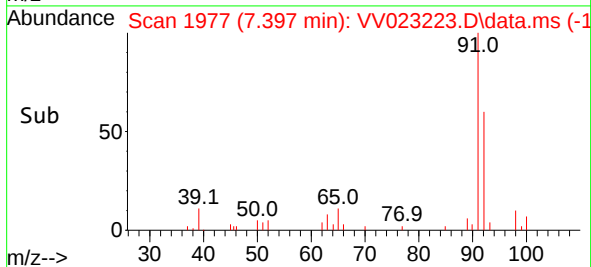
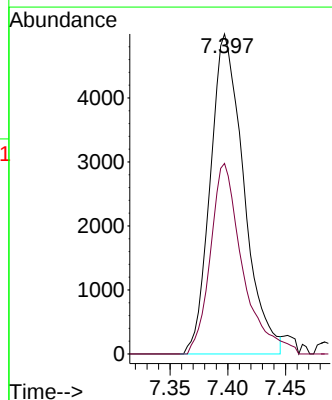
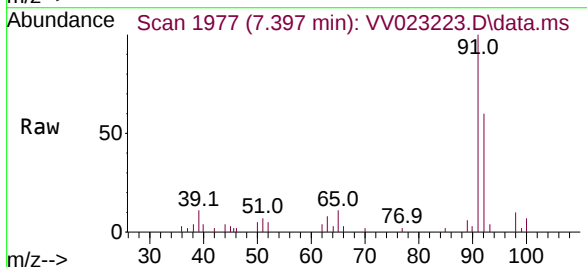
Acq: 05 Nov 2021 11:39

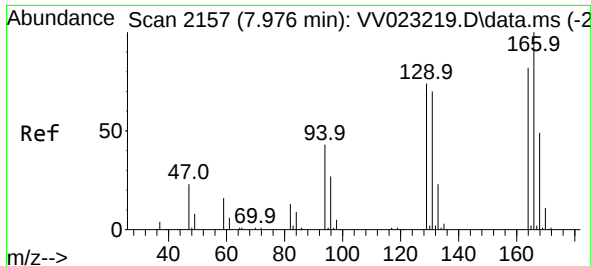
Tgt Ion: 91 Resp: 10039

Ion Ratio Lower Upper

91 100

92 59.5 40.4 75.0





#47

Tetrachloroethene

Concen: 1.790 ug/L

RT: 7.979 min Scan# 2157

Delta R.T. 0.003 min

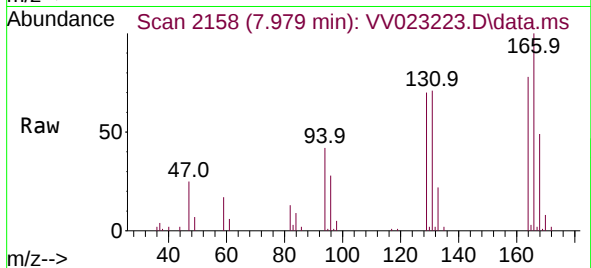
Lab File: VV023223.D

Acq: 05 Nov 2021 11:39

Instrument :

MSVOA\_V

ClientSampleId :



Tgt Ion:164 Resp: 15045

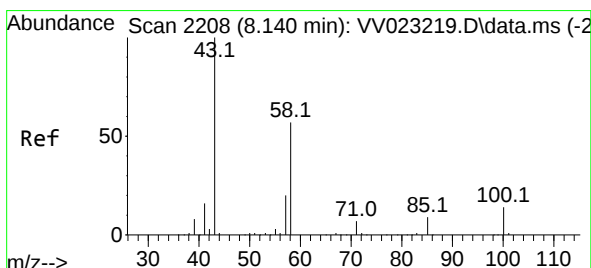
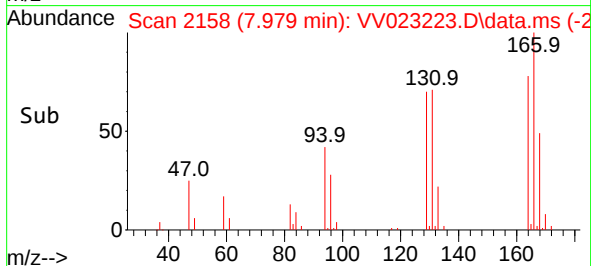
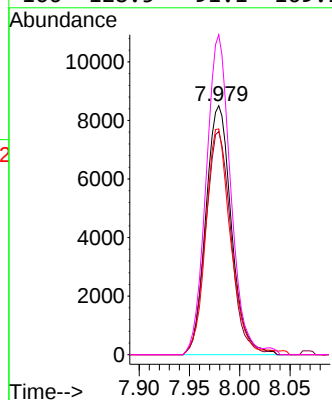
Ion Ratio Lower Upper

164 100

129 89.6 65.5 121.7

131 90.6 63.9 118.7

166 128.5 91.1 169.1



#48

2-Hexanone

Concen: 1.214 ug/L

RT: 8.146 min Scan# 2210

Delta R.T. 0.006 min

Lab File: VV023223.D

Acq: 05 Nov 2021 11:39

Tgt Ion: 43 Resp: 3437

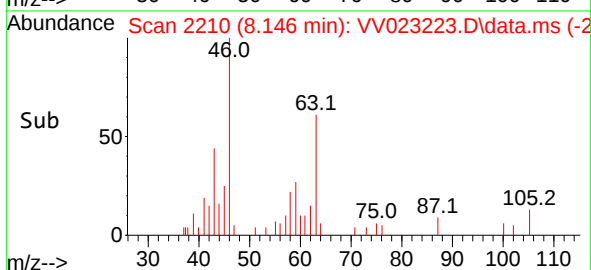
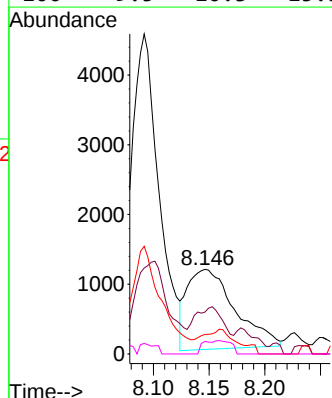
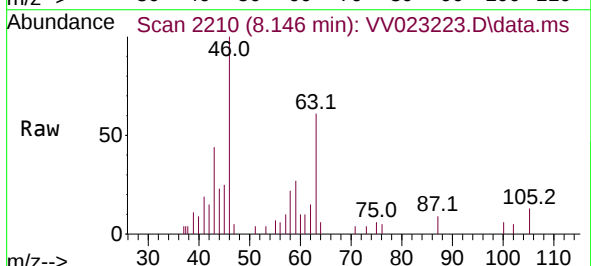
Ion Ratio Lower Upper

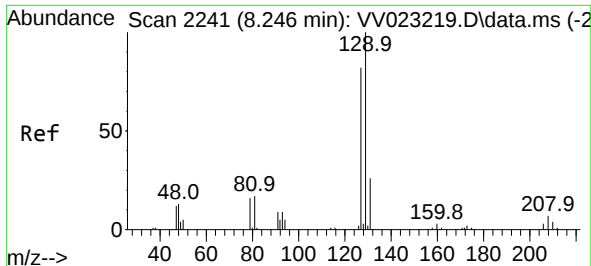
43 100

58 37.5 43.0 64.6#

57 21.7 14.9 22.3

100 9.5 10.3 15.5#





#49

Dibromochloromethane

Concen: 1.639 ug/L

RT: 7.979 min Scan# 2158

Delta R.T. -0.267 min

Lab File: VV023223.D

Acq: 05 Nov 2021 11:39

Instrument :

MSVOA\_V

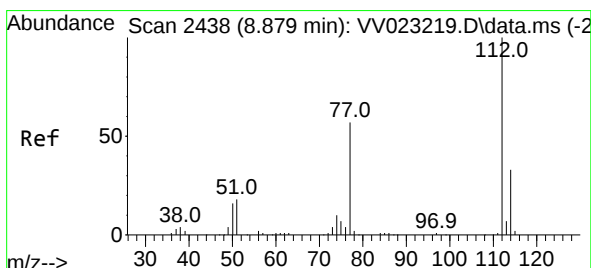
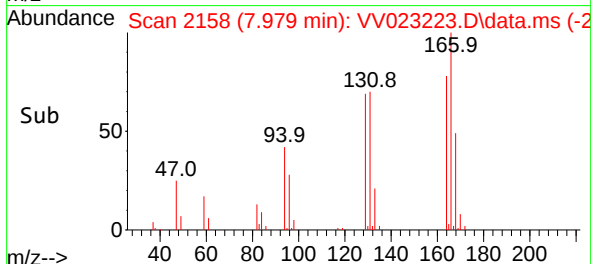
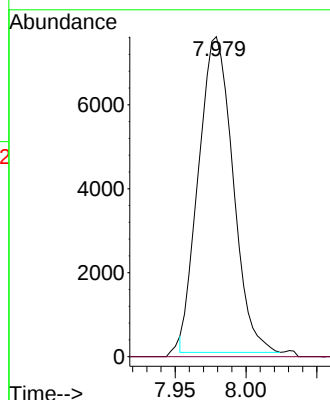
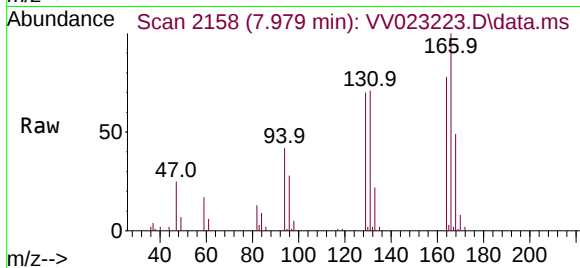
ClientSampleId :

Tgt Ion:129 Resp: 12703

Ion Ratio Lower Upper

129 100

127 0.0 54.4 101.0#



#51

Chlorobenzene

Concen: 5.777 ug/L

RT: 8.883 min Scan# 2439

Delta R.T. 0.003 min

Lab File: VV023223.D

Acq: 05 Nov 2021 11:39

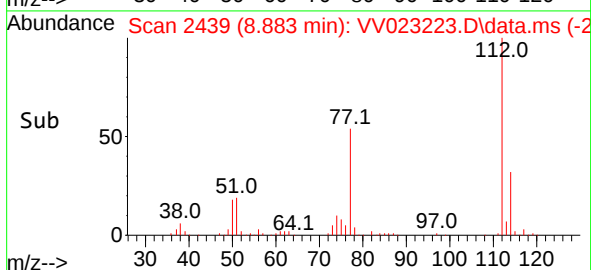
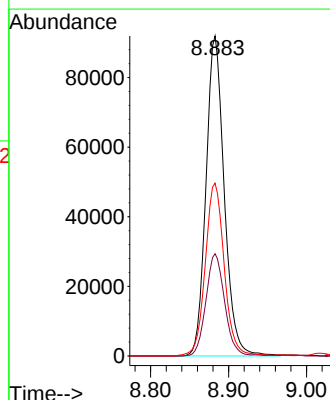
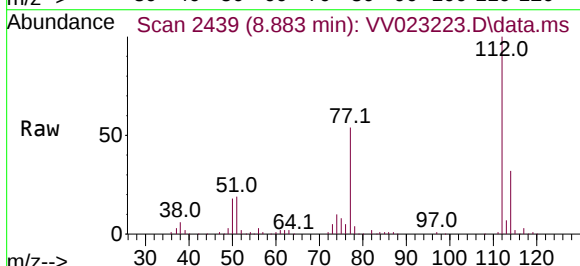
Tgt Ion:112 Resp: 149743

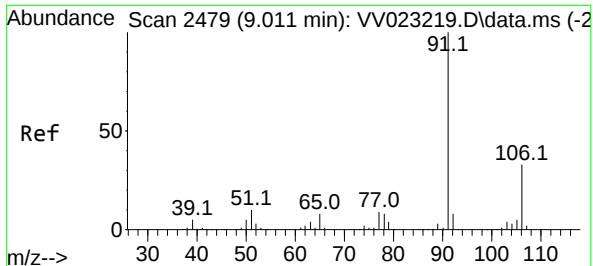
Ion Ratio Lower Upper

112 100

114 32.0 22.4 41.6

77 54.0 43.8 65.8

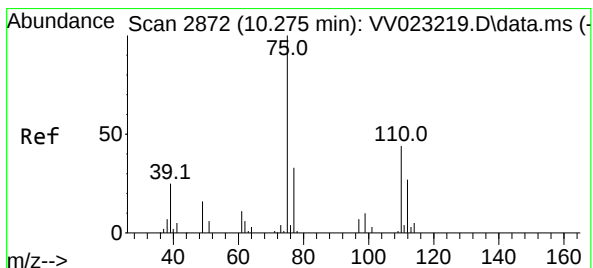
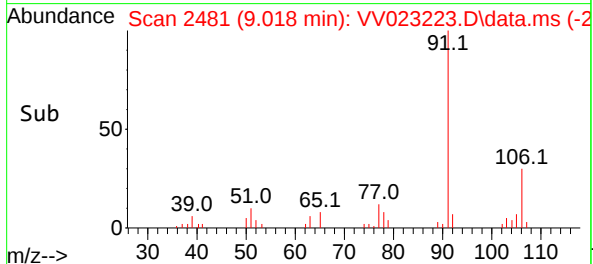
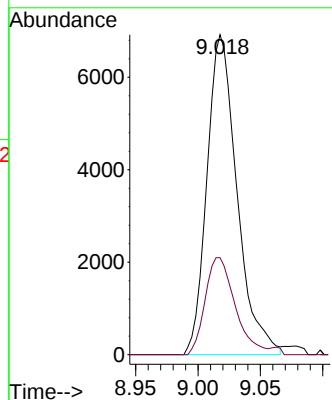
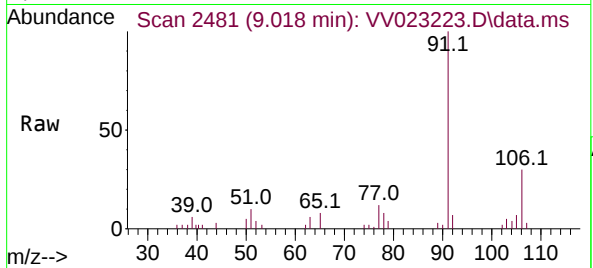




#52  
Ethylbenzene  
Concen: 0.282 ug/L  
RT: 9.018 min Scan# 2479  
Delta R.T. 0.006 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

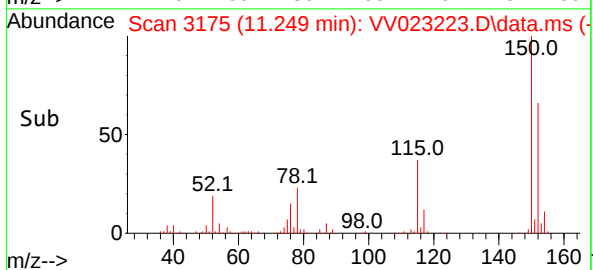
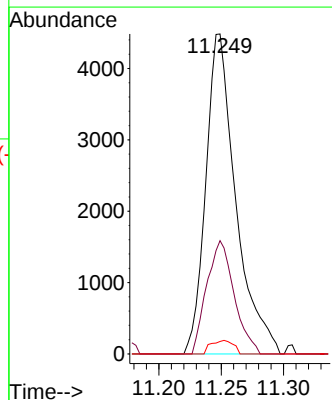
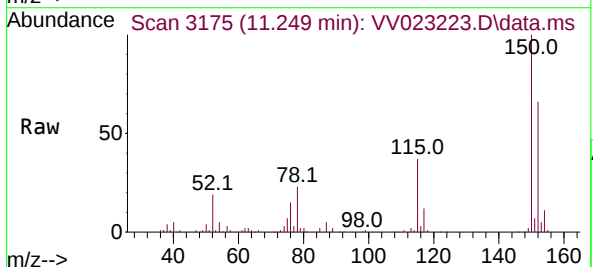
Instrument :  
MSVOA\_V  
ClientSampleId :

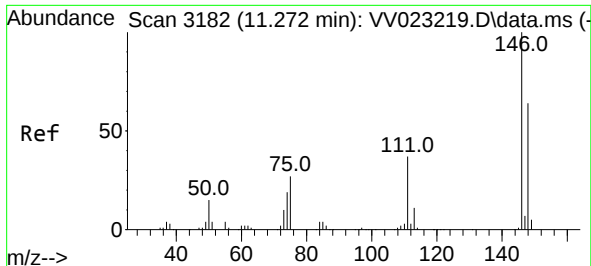
Tgt Ion: 91 Resp: 11600  
Ion Ratio Lower Upper  
91 100  
106 30.3 22.3 41.5



#61  
1,2,3-Trichloropropane  
Concen: 1.833 ug/L  
RT: 11.249 min Scan# 3175  
Delta R.T. 0.974 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

Tgt Ion: 75 Resp: 7507  
Ion Ratio Lower Upper  
75 100  
77 0.0 26.6 39.8#  
110 3.1 33.0 49.4#

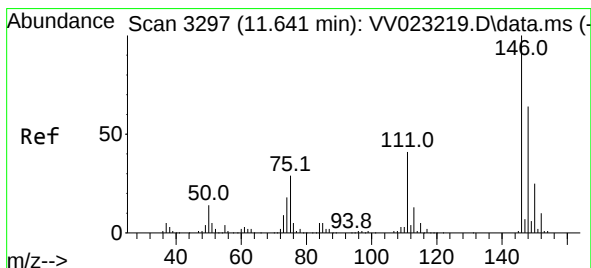
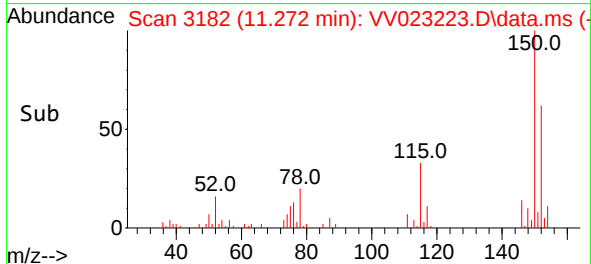
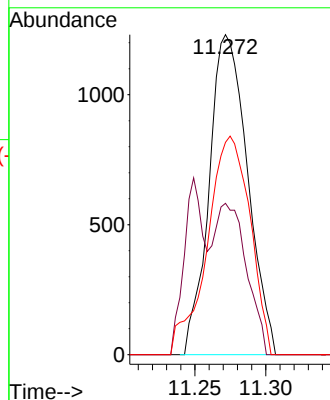
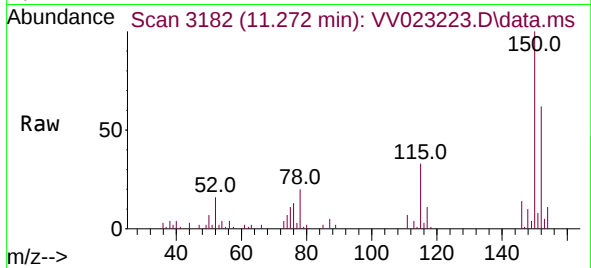




#65  
1,4-Dichlorobenzene  
Concen: 0.126 ug/L  
RT: 11.272 min Scan# 3182  
Delta R.T. 0.000 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

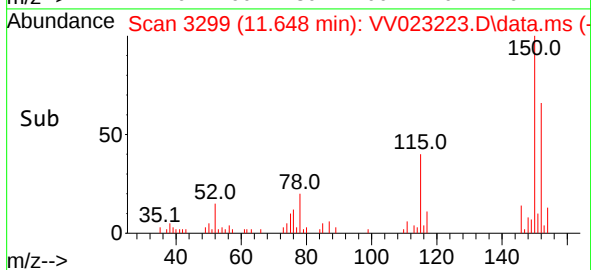
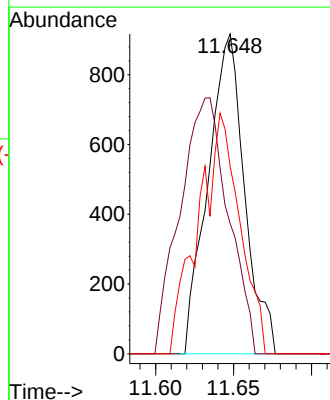
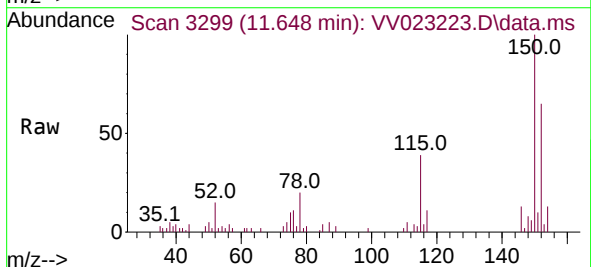
Instrument :  
MSVOA\_V  
ClientSampleId :

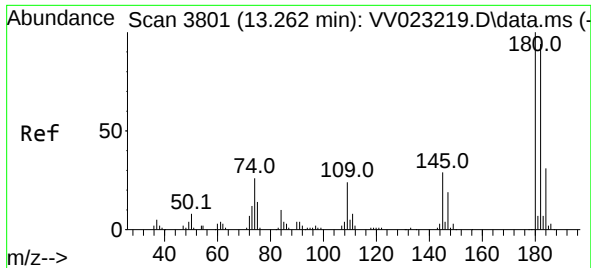
Tgt Ion:146 Resp: 2323  
Ion Ratio Lower Upper  
146 100  
111 47.3 26.1 48.5  
148 66.4 44.7 83.1



#67  
1,2-Dichlorobenzene  
Concen: 0.092 ug/L  
RT: 11.648 min Scan# 3299  
Delta R.T. 0.006 min  
Lab File: VV023223.D  
Acq: 05 Nov 2021 11:39

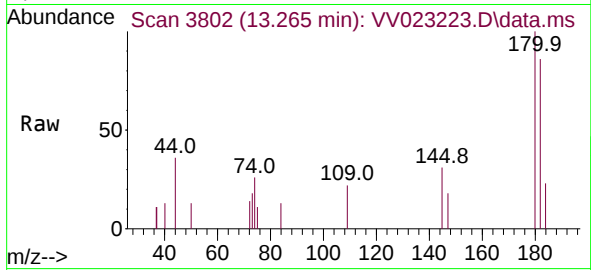
Tgt Ion:146 Resp: 1494  
Ion Ratio Lower Upper  
146 100  
111 40.8 31.3 46.9  
148 58.6 51.4 77.2





#70  
 1,2,4-trichlorobenzene  
 Concen: 0.112 ug/L  
 RT: 13.265 min Scan# 3802  
 Delta R.T. 0.003 min  
 Lab File: VV023223.D  
 Acq: 05 Nov 2021 11:39

Instrument :  
 MSVOA\_V  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1269  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 99.4  | 77.4  | 116.2 |
| 145      | 31.6  | 24.1  | 36.1  |

