

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112222\  
 Data File : VX032999.D  
 Acq On : 22 Nov 2022 23:22  
 Operator : JC/MD  
 Sample : N5730-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D5-20221118

Quant Time: Nov 23 05:52:05 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112222W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 22 13:58:46 2022  
 Response via : Initial Calibration

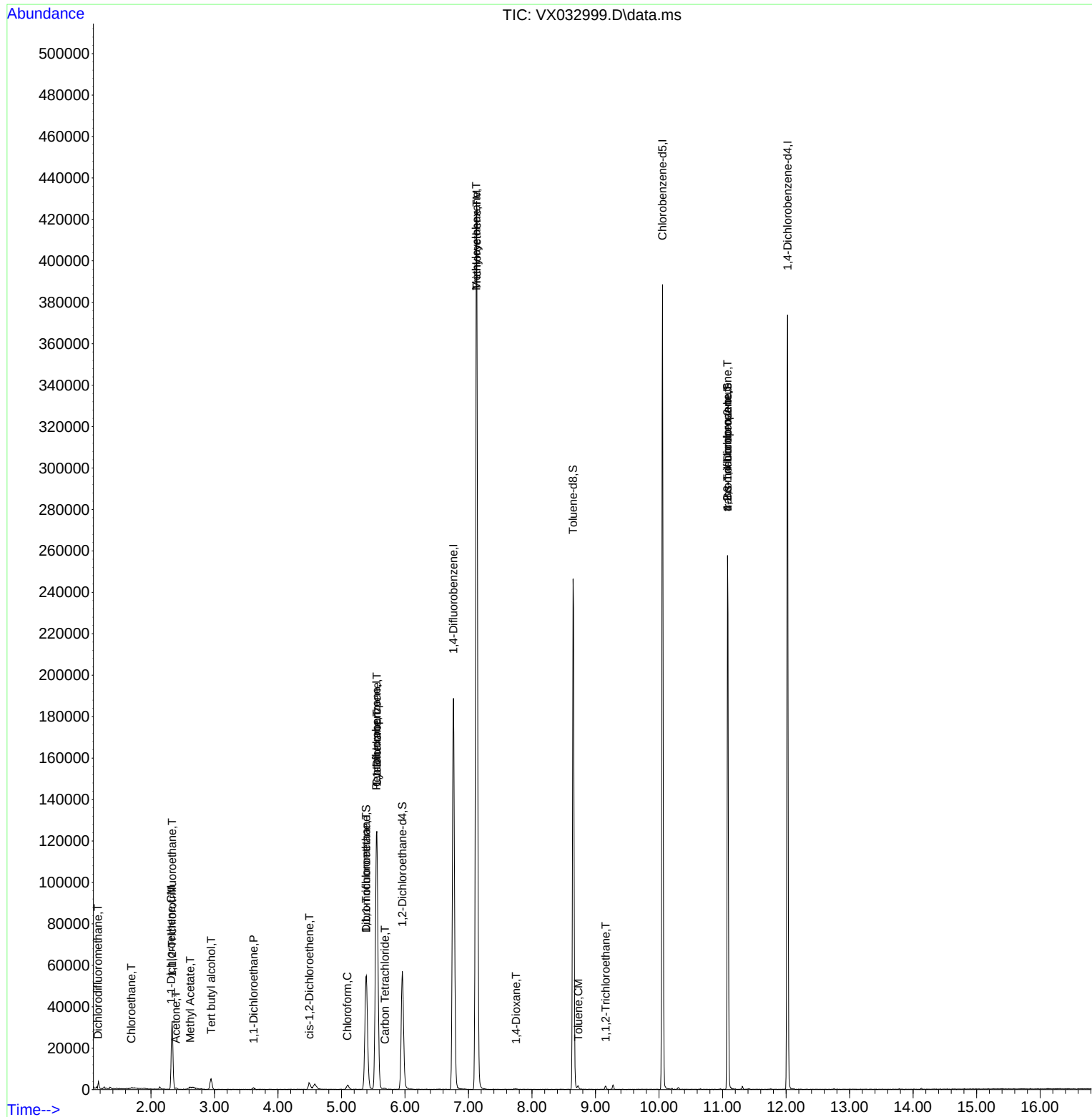
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.549  | 168   | 118704   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 191397   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 167052   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 76004    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 56426    | 48.556    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 97.120%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 47072    | 43.625    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 87.240%  |
| 50) Toluene-d8                | 8.646  | 98    | 146132   | 44.786    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 89.580%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 64663    | 45.620    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 91.240%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166  | 85    | 1221     | 1.346     | ug/l   | 100      |
| 6) Chloroethane               | 1.690  | 64    | 190      | 0.214     | ug/l # | 42       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 10654    | 9.581     | ug/l   | 98       |
| 11) Tert butyl alcohol        | 2.946  | 59    | 3018     | 16.469    | ug/l # | 72       |
| 12) 1,1-Dichloroethene        | 2.318  | 96    | 2377     | 2.295     | ug/l   | 97       |
| 16) Acetone                   | 2.391  | 43    | 777      | 1.439     | ug/l   | 92       |
| 18) Methyl Acetate            | 2.617  | 43    | 523      | 0.350     | ug/l # | 51       |
| 20) Methylene Chloride        | 2.788  | 84    | 62       | Below Cal | #      | 59       |
| 24) 1,1-Dichloroethane        | 3.617  | 63    | 1146     | 0.550     | ug/l # | 82       |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 1951     | 1.449     | ug/l   | 97       |
| 30) Chloroform                | 5.092  | 83    | 2669     | 1.144     | ug/l   | 95       |
| 31) Cyclohexane               | 5.556  | 56    | 2788     | 1.488     | ug/l # | 35       |
| 32) 1,1,1-Trichloroethane     | 5.385  | 97    | 562      | 0.269     | ug/l # | 35       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 9336     | 5.411     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.684  | 117   | 570      | 0.298     | ug/l # | 51       |
| 39) Methylcyclohexane         | 7.122  | 83    | 2016     | 1.024     | ug/l # | 1        |
| 44) Trichloroethene           | 7.128  | 130   | 164212   | 120.974   | ug/l   | 100      |
| 49) 1,4-Dioxane               | 7.750  | 88    | 424      | 17.976    | ug/l # | 26       |
| 52) Toluene                   | 8.726  | 92    | 641      | 0.201     | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97    | 534      | 0.412     | ug/l   | 89       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 34939    | 24.273    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 34939    | 78.900    | ug/l # | 6        |
| -----                         |        |       |          |           |        |          |

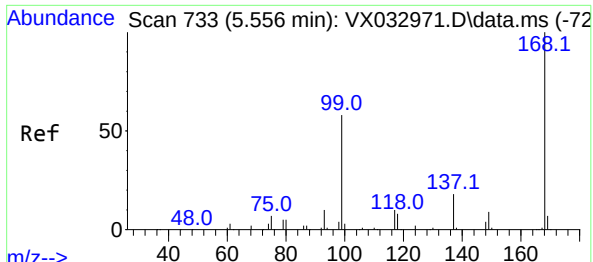
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX112222\  
Data File : VX032999.D  
Acq On : 22 Nov 2022 23:22  
Operator : JC/MD  
Sample : N5730-06  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

Quant Time: Nov 23 05:52:05 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X112222W.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 22 13:58:46 2022  
Response via : Initial Calibration

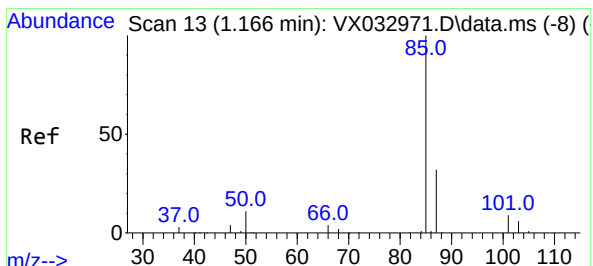
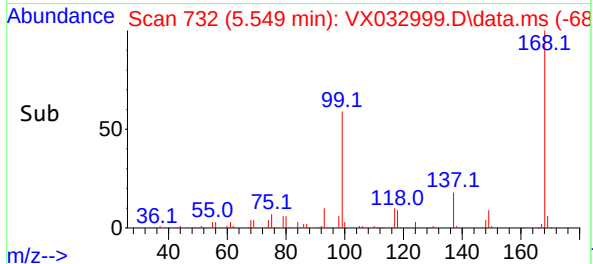
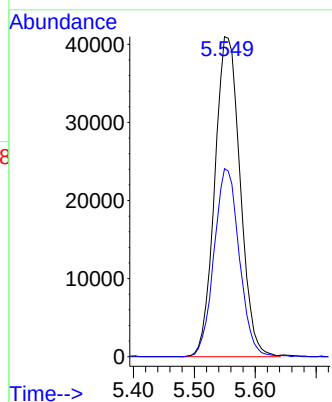
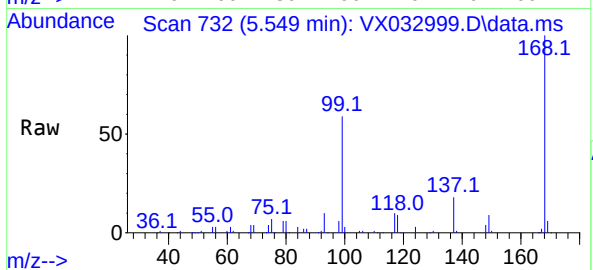




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.007 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

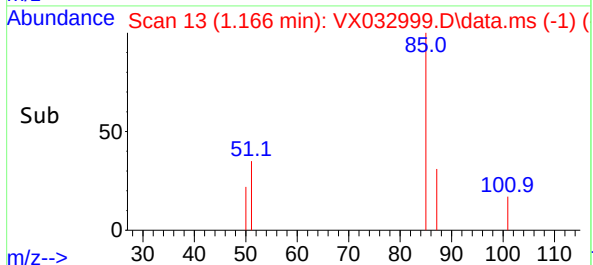
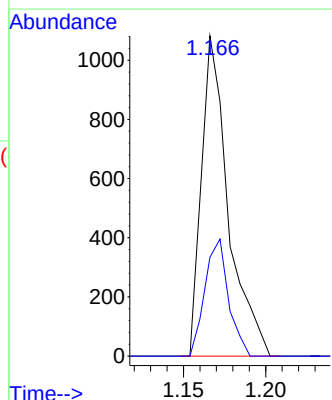
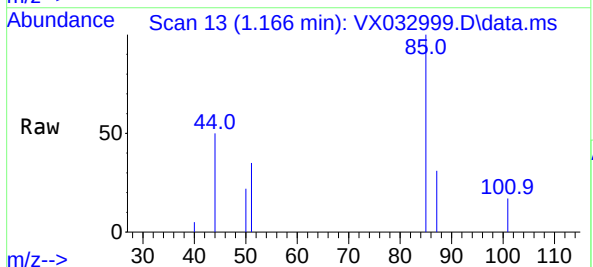
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

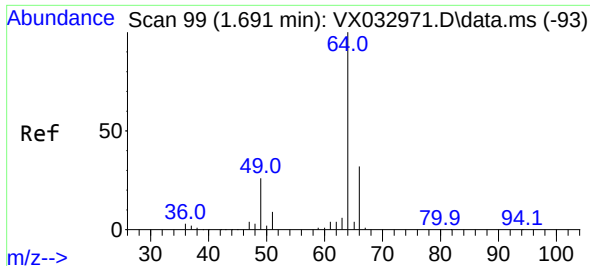
Tgt Ion:168 Resp: 118704  
Ion Ratio Lower Upper  
168 100  
99 58.7 46.1 69.1



#2  
Dichlorodifluoromethane  
Concen: 1.346 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 85 Resp: 1221  
Ion Ratio Lower Upper  
85 100  
87 30.9 15.6 46.7

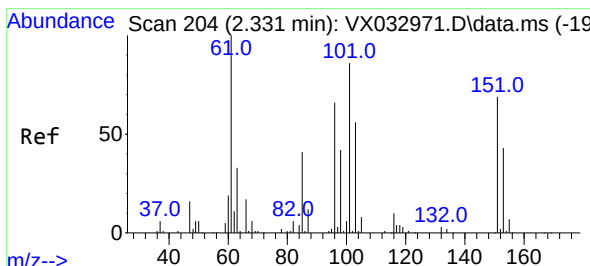
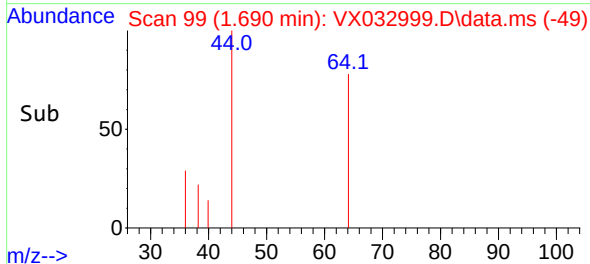
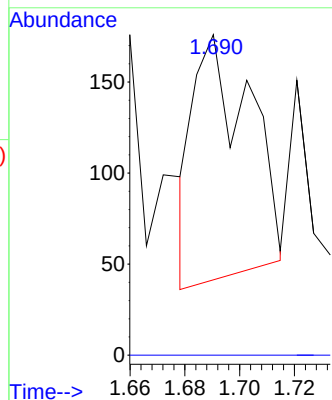
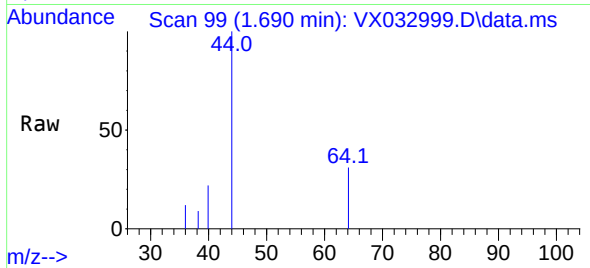




#6  
Chloroethane  
Concen: 0.214 ug/l  
RT: 1.690 min Scan# 99  
Delta R.T. 0.005 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

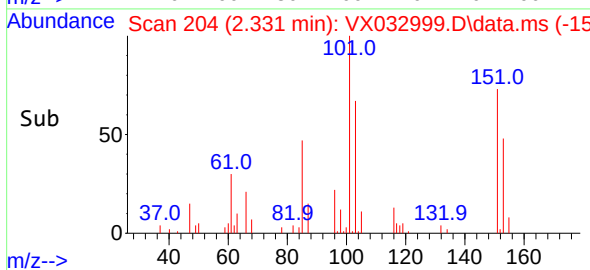
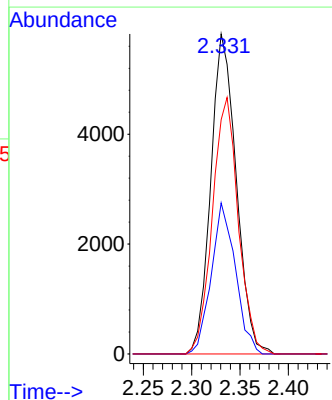
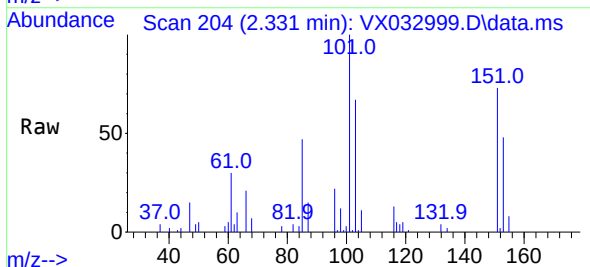
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

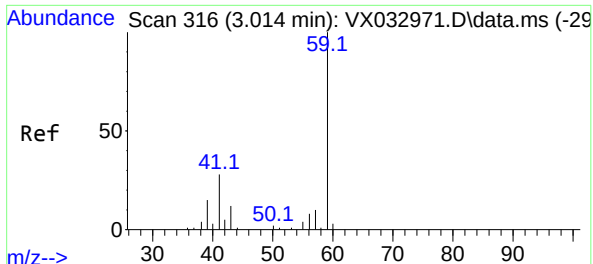
Tgt Ion: 64 Resp: 190  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.0 39.0#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 9.581 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 101 Resp: 10654  
Ion Ratio Lower Upper  
101 100  
85 44.7 37.0 55.4  
151 81.5 64.4 96.6





#11

Tert butyl alcohol

Concen: 16.469 ug/l

RT: 2.946 min Scan# 305

Delta R.T. -0.019 min

Lab File: VX032999.D

Acq: 22 Nov 2022 23:22

Instrument :

MSVOA\_X

ClientSampleId :

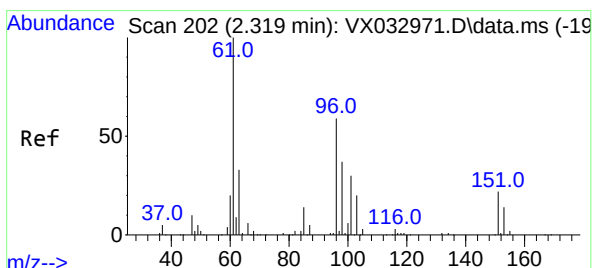
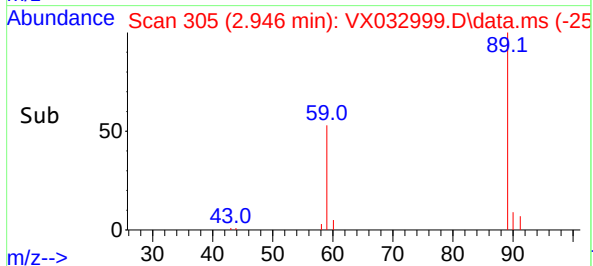
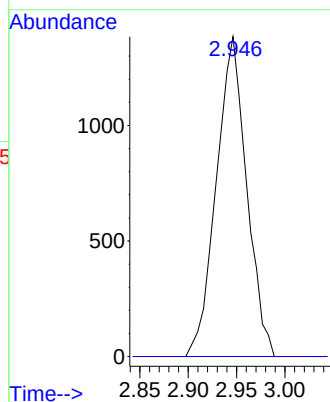
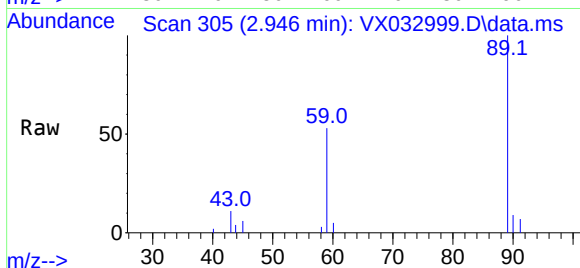
RE132D5-20221118

Tgt Ion: 59 Resp: 3018

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#12

1,1-Dichloroethene

Concen: 2.295 ug/l

RT: 2.318 min Scan# 202

Delta R.T. -0.001 min

Lab File: VX032999.D

Acq: 22 Nov 2022 23:22

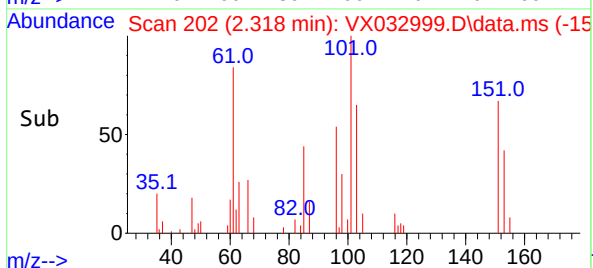
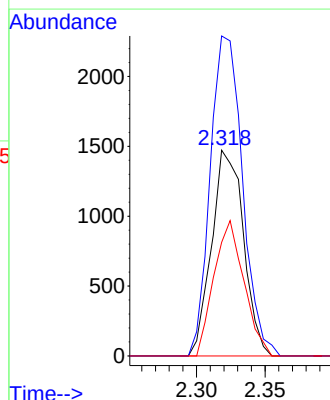
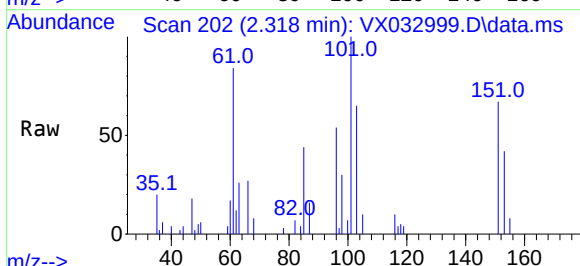
Tgt Ion: 96 Resp: 2377

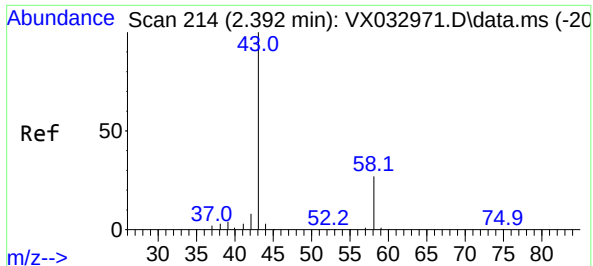
Ion Ratio Lower Upper

96 100

61 155.6 125.1 187.7

98 55.2 50.6 76.0

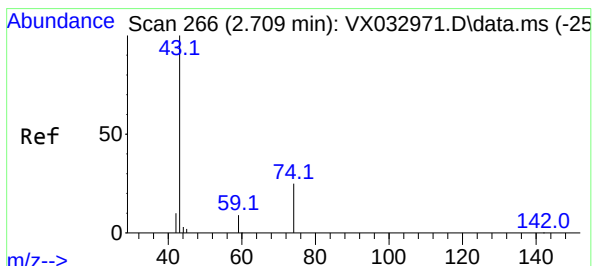
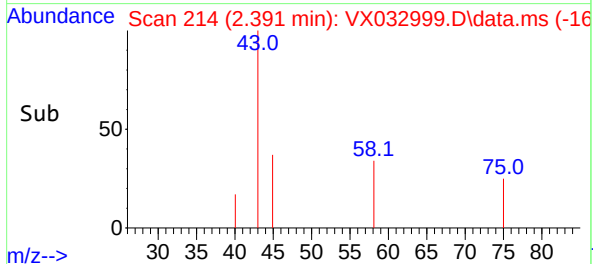
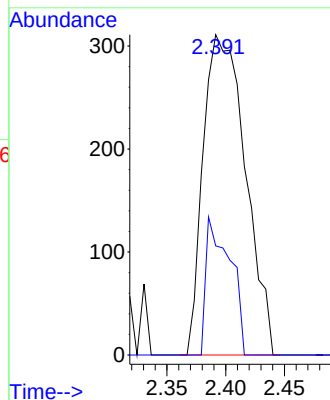
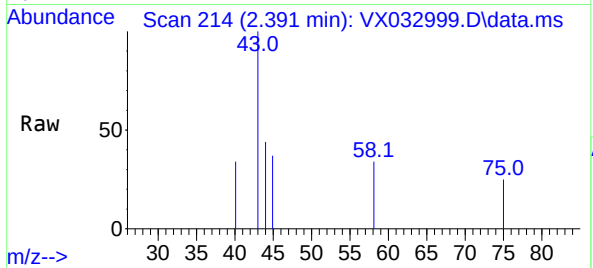




#16  
Acetone  
Concen: 1.439 ug/l  
RT: 2.391 min Scan# 214  
Delta R.T. 0.011 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

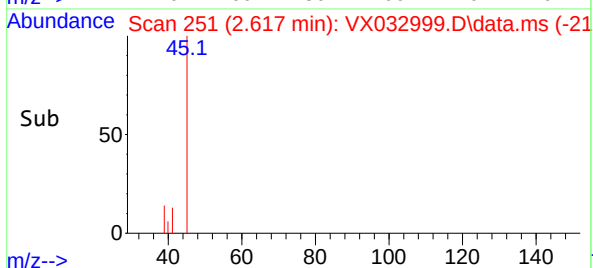
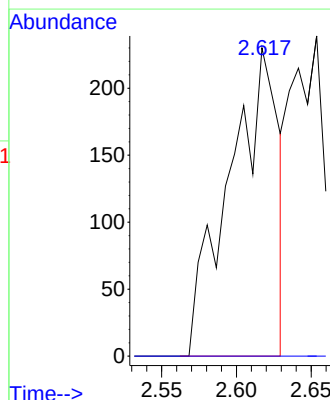
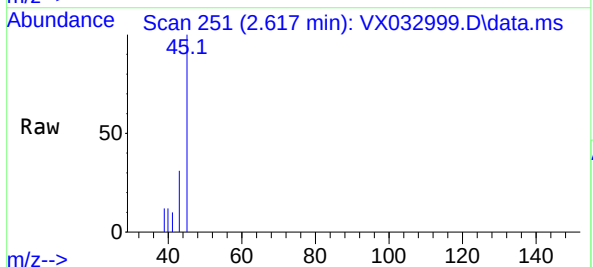
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

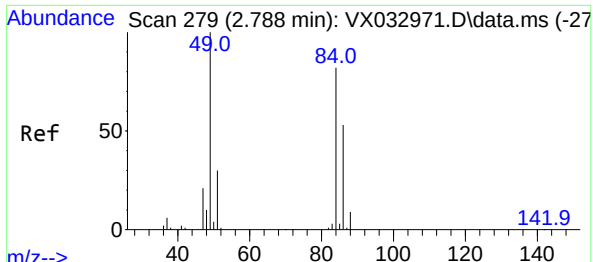
Tgt Ion: 43 Resp: 777  
Ion Ratio Lower Upper  
43 100  
58 34.1 23.8 35.8



#18  
Methyl Acetate  
Concen: 0.350 ug/l  
RT: 2.617 min Scan# 251  
Delta R.T. -0.086 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

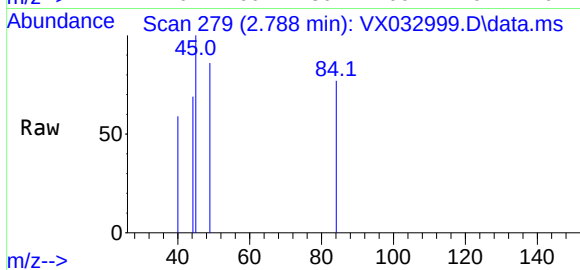
Tgt Ion: 43 Resp: 523  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.4 29.0#





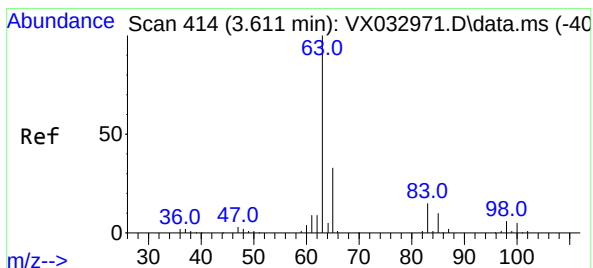
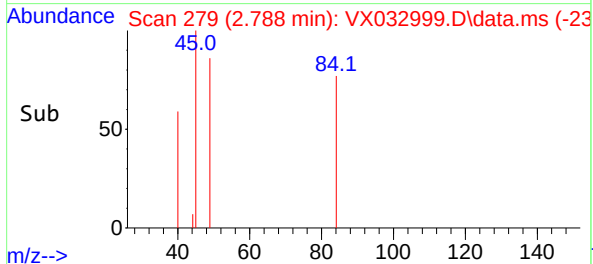
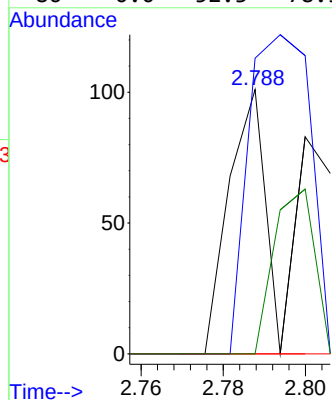
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118



Tgt Ion: 84 Resp: 62

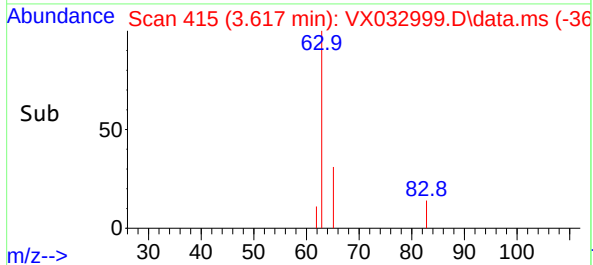
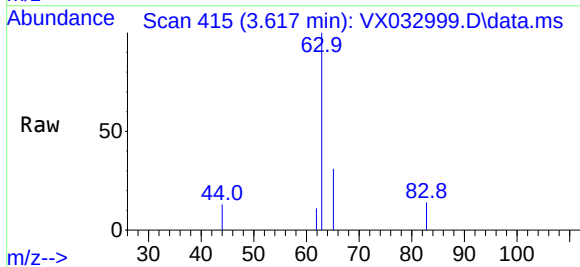
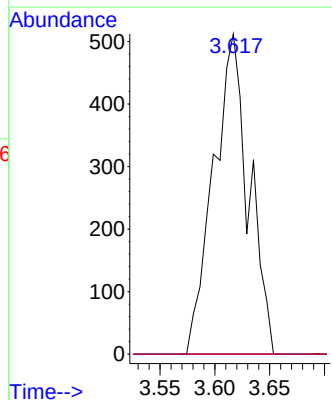
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 111.9 | 101.0 | 151.6 |
| 51  | 0.0   | 31.1  | 46.7# |
| 86  | 0.0   | 52.3  | 78.5# |

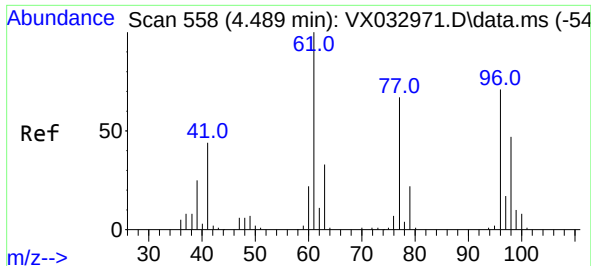


#24  
1,1-Dichloroethane  
Concen: 0.550 ug/l  
RT: 3.617 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 63 Resp: 1146

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 0.0   | 3.5   | 10.4# |
| 100 | 0.0   | 2.3   | 6.8#  |

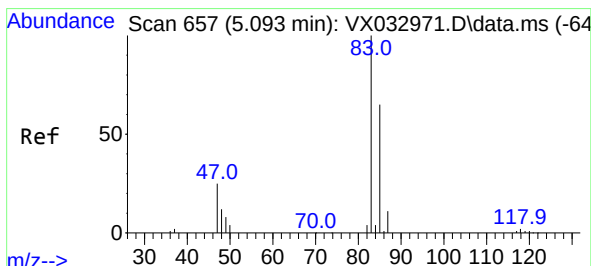
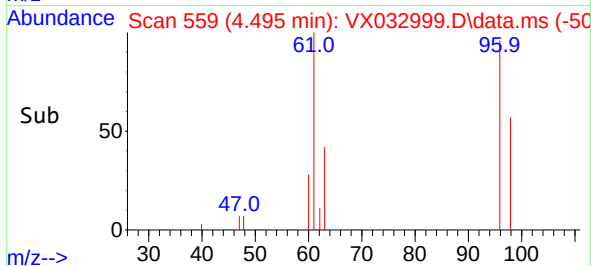
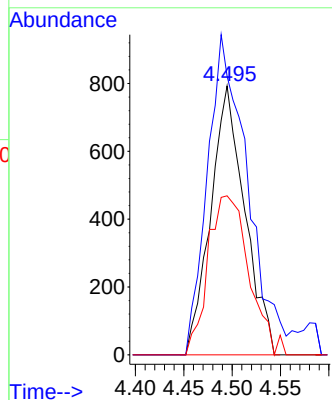
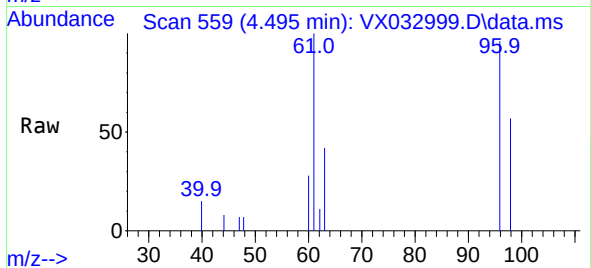




#27  
cis-1,2-Dichloroethene  
Concen: 1.449 ug/l  
RT: 4.495 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

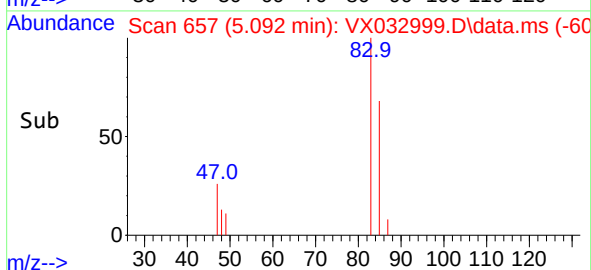
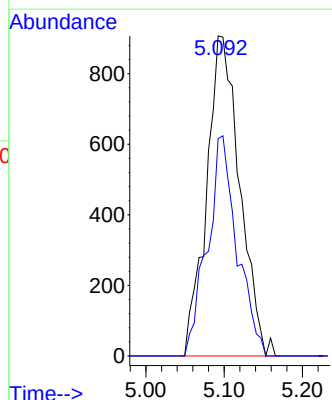
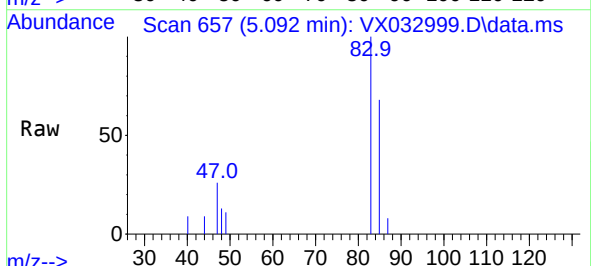
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

Tgt Ion: 96 Resp: 1951  
Ion Ratio Lower Upper  
96 100  
61 141.2 0.0 286.0  
98 70.7 0.0 129.6

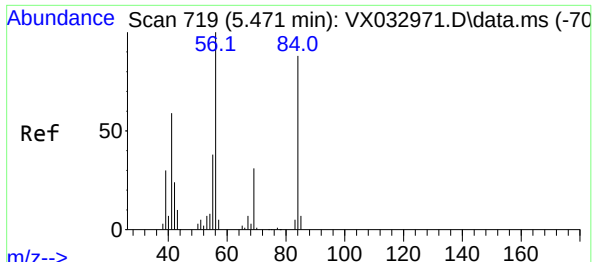


#30  
Chloroform  
Concen: 1.144 ug/l  
RT: 5.092 min Scan# 657  
Delta R.T. -0.007 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 83 Resp: 2669  
Ion Ratio Lower Upper  
83 100  
85 67.9 51.1 76.7

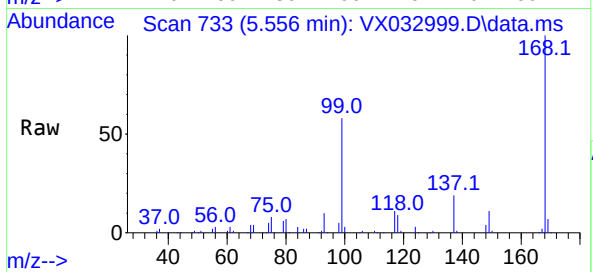




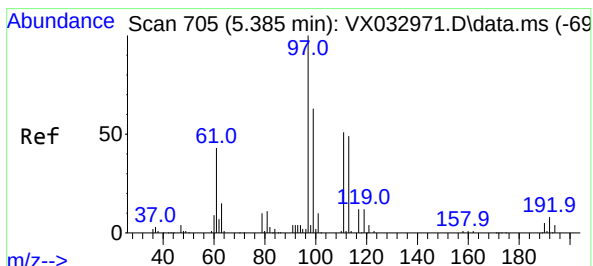
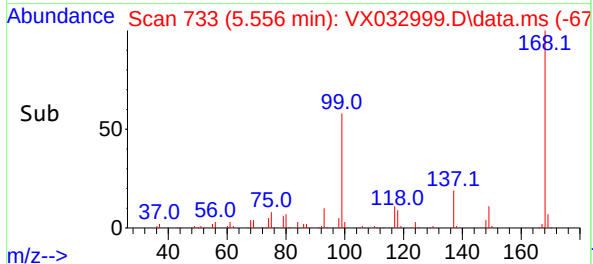
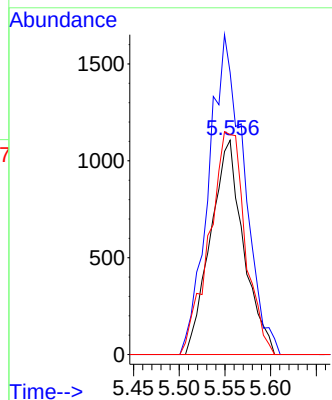


#31  
Cyclohexane  
Concen: 1.488 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.086 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

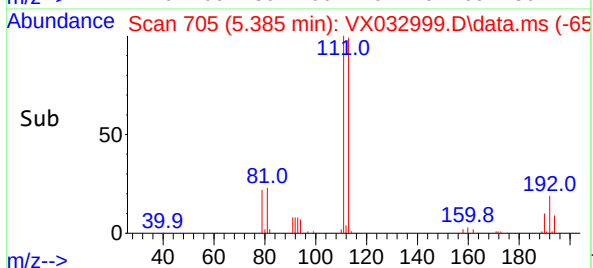
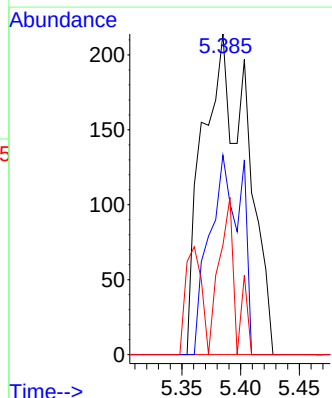
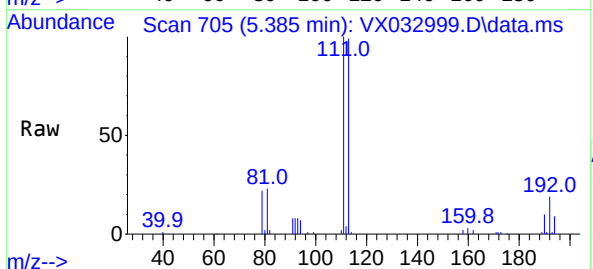


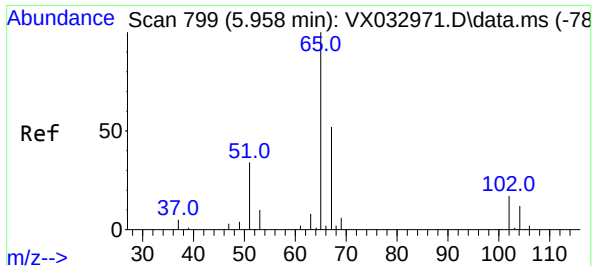
Tgt Ion: 56 Resp: 2788  
Ion Ratio Lower Upper  
56 100  
69 131.6 24.1 36.1#  
84 102.6 66.9 100.3#



#32  
1,1,1-Trichloroethane  
Concen: 0.269 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 97 Resp: 562  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.4 77.0#  
61 18.5 35.2 52.8#

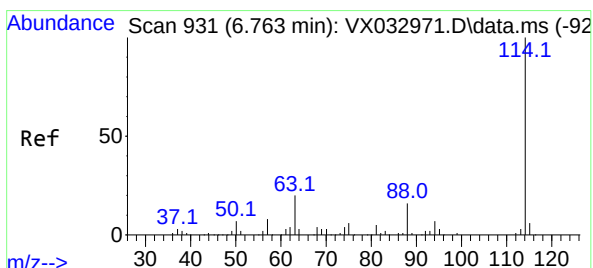
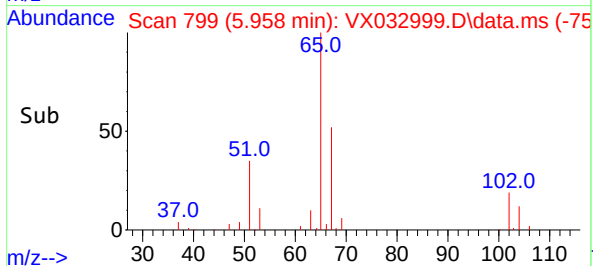
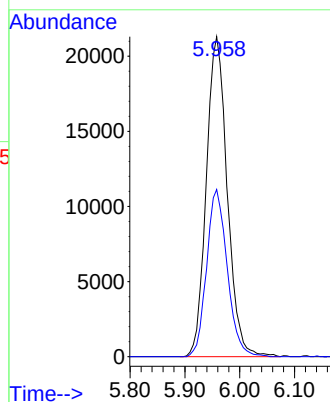
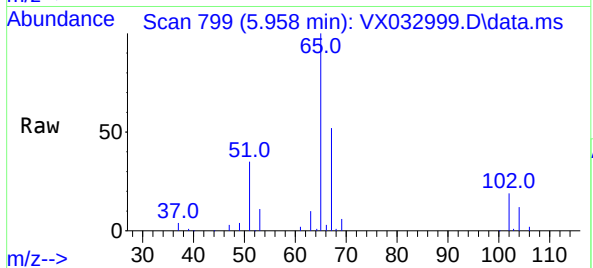




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.556 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. -0.000 min  
 Lab File: VX032999.D  
 Acq: 22 Nov 2022 23:22

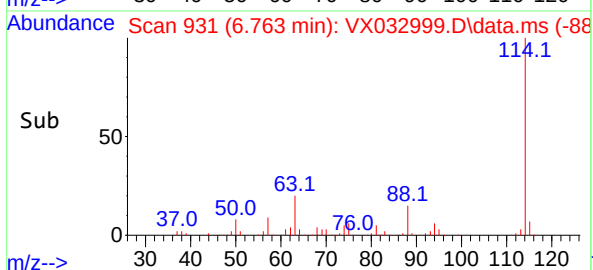
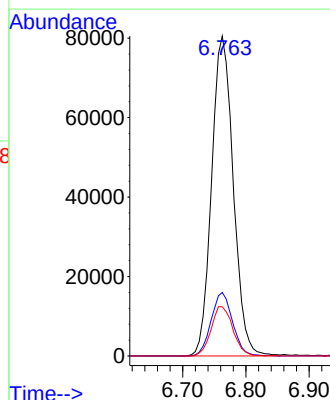
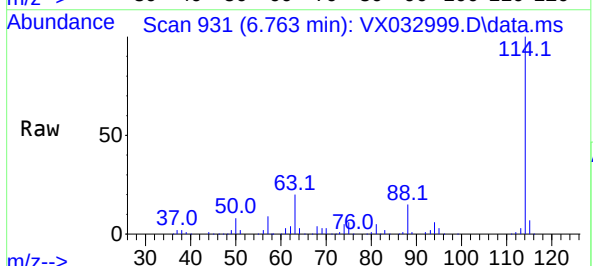
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D5-20221118

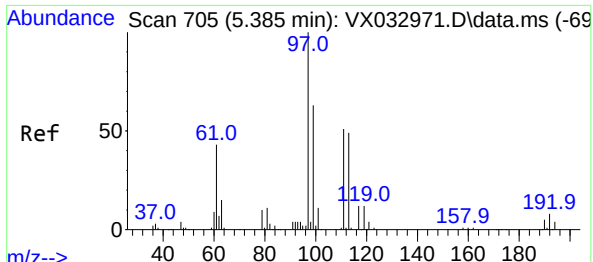
Tgt Ion: 65 Resp: 56426  
 Ion Ratio Lower Upper  
 65 100  
 67 51.5 0.0 101.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX032999.D  
 Acq: 22 Nov 2022 23:22

Tgt Ion: 114 Resp: 191397  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 41.6  
 88 15.3 0.0 33.4





#35

Dibromofluoromethane

Concen: 43.625 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX032999.D

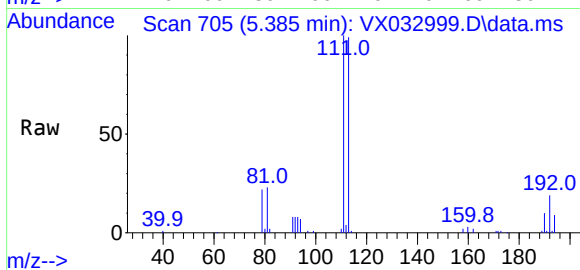
Acq: 22 Nov 2022 23:22

Instrument :

MSVOA\_X

ClientSampleId :

RE132D5-20221118



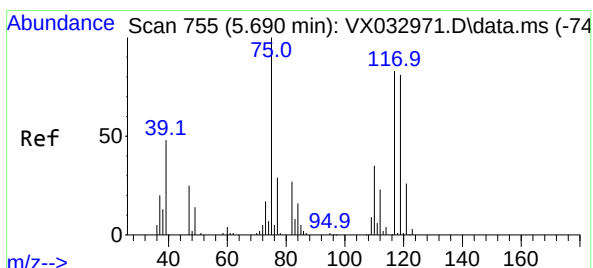
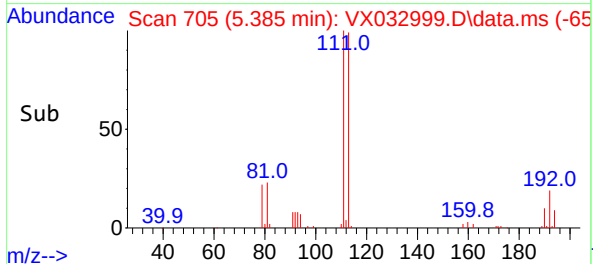
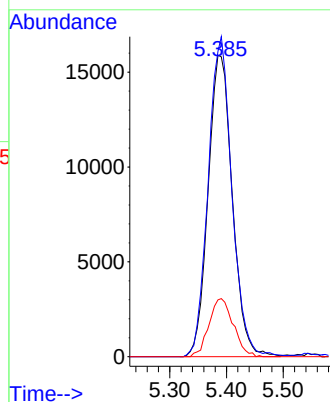
Tgt Ion:113 Resp: 47072

Ion Ratio Lower Upper

113 100

111 104.0 82.4 123.6

192 19.4 15.4 23.2



#36

1,1-Dichloropropene

Concen: 5.411 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX032999.D

Acq: 22 Nov 2022 23:22

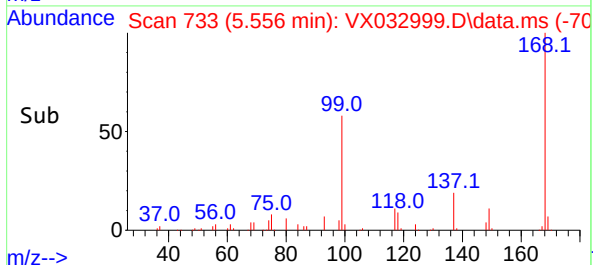
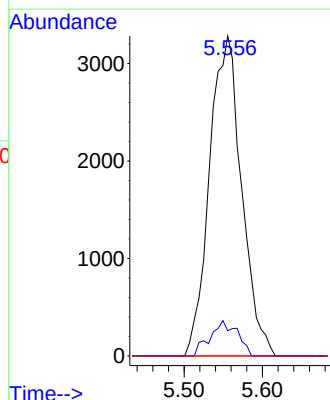
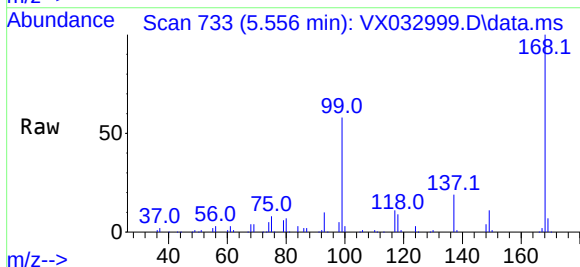
Tgt Ion: 75 Resp: 9336

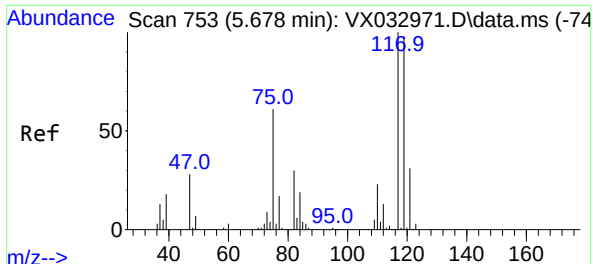
Ion Ratio Lower Upper

75 100

110 9.4 18.4 55.2#

77 0.0 24.5 36.7#

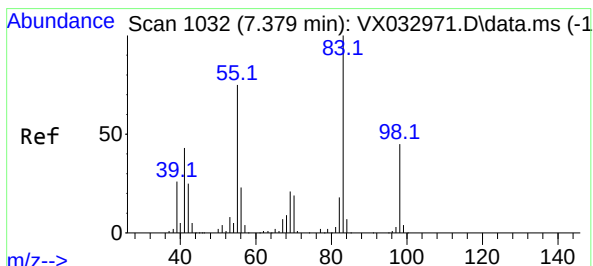
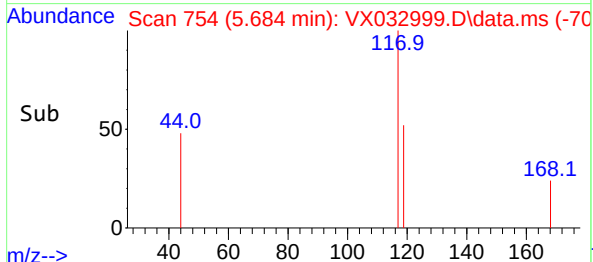
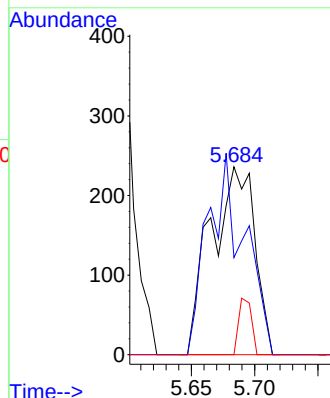
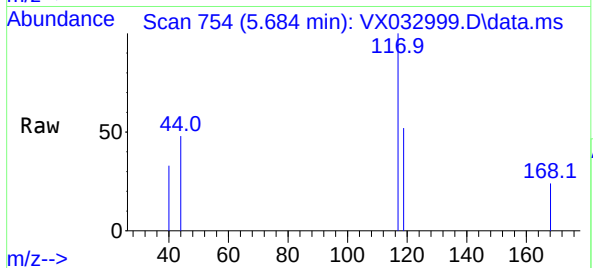




#38  
Carbon Tetrachloride  
Concen: 0.298 ug/l  
RT: 5.684 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

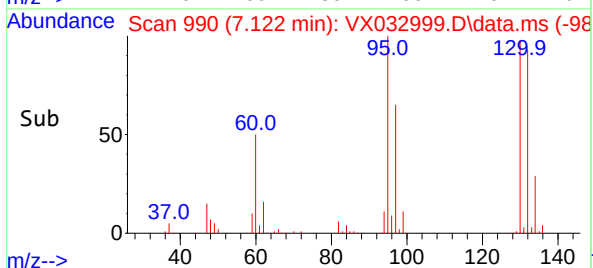
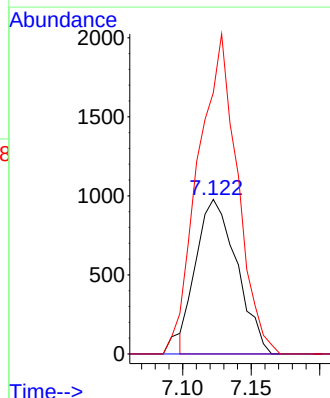
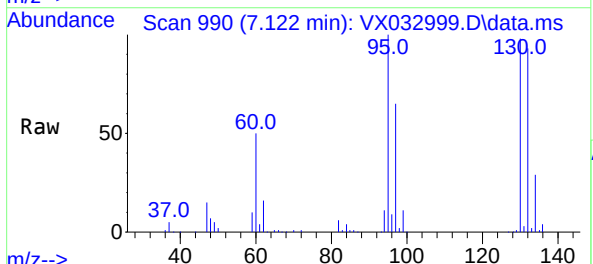
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

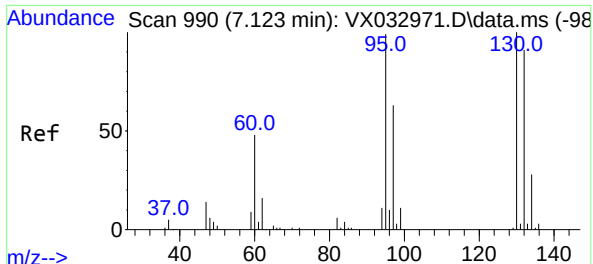
Tgt Ion:117 Resp: 570  
Ion Ratio Lower Upper  
117 100  
119 51.7 77.2 115.8#  
121 0.0 25.8 38.6#



#39  
Methylcyclohexane  
Concen: 1.024 ug/l  
RT: 7.122 min Scan# 990  
Delta R.T. -0.263 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 83 Resp: 2016  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.4 87.6#  
98 169.2 37.2 55.8#

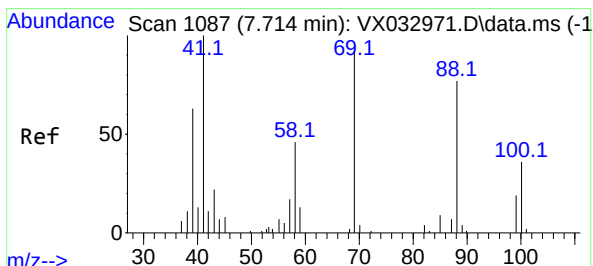
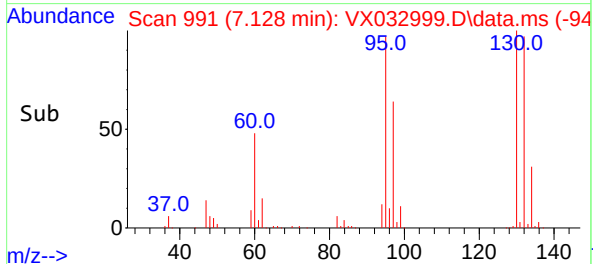
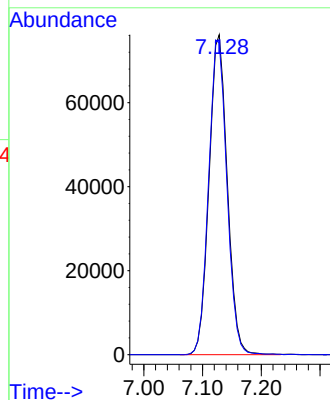
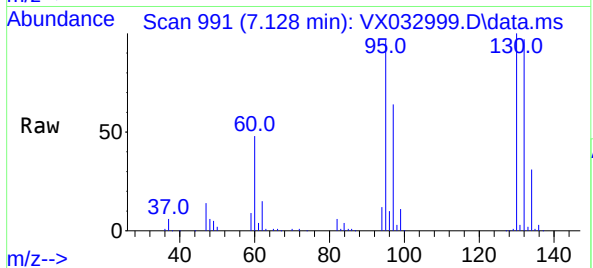




#44  
Trichloroethene  
Concen: 120.974 ug/l  
RT: 7.128 min Scan# 991  
Delta R.T. -0.001 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

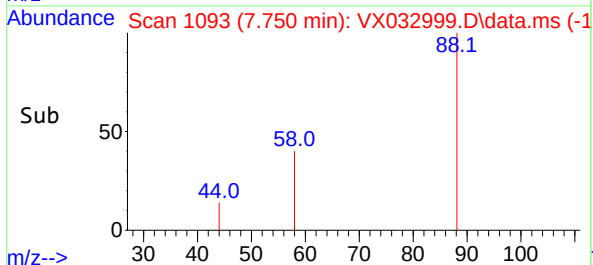
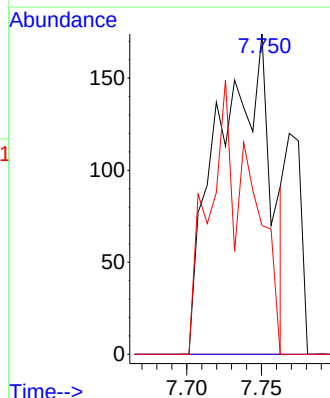
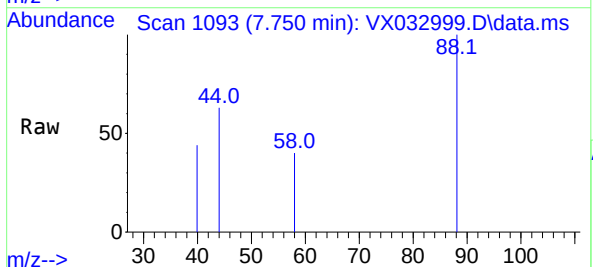
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

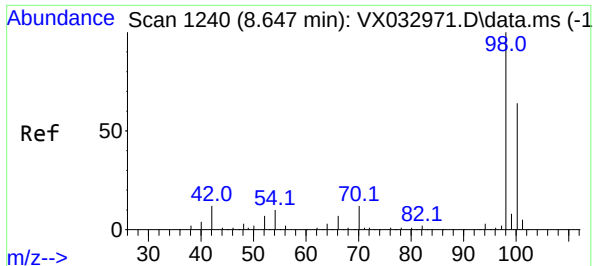
Tgt Ion:130 Resp: 164212  
Ion Ratio Lower Upper  
130 100  
95 97.4 0.0 195.2



#49  
1,4-Dioxane  
Concen: 17.976 ug/l  
RT: 7.750 min Scan# 1093  
Delta R.T. 0.079 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 88 Resp: 424  
Ion Ratio Lower Upper  
88 100  
43 0.0 26.6 39.8#  
58 0.0 51.7 77.5#





#50

Toluene-d8

Concen: 44.786 ug/l

RT: 8.646 min Scan# 11

Delta R.T. -0.007 min

Lab File: VX032999.D

Acq: 22 Nov 2022 23:22

Instrument :

MSVOA\_X

ClientSampleId :

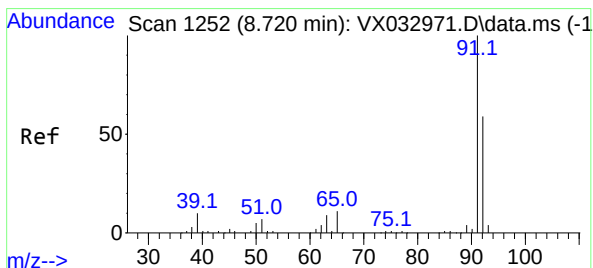
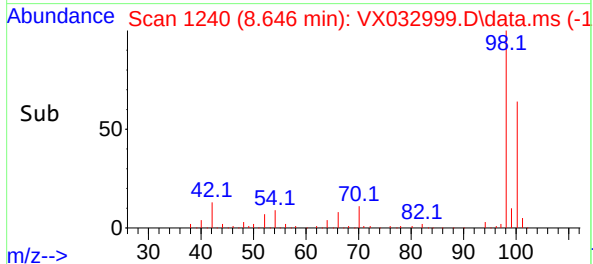
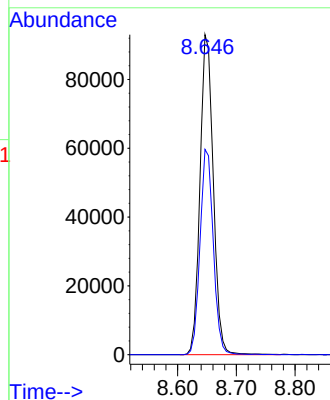
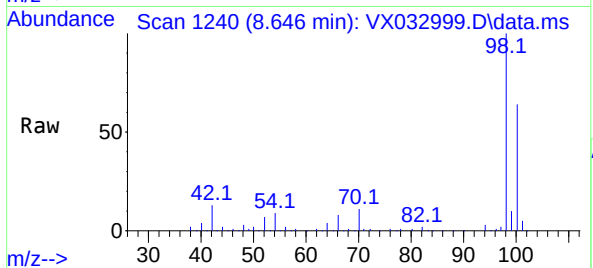
RE132D5-20221118

Tgt Ion: 98 Resp: 146132

Ion Ratio Lower Upper

98 100

100 64.2 50.9 76.3



#52

Toluene

Concen: 0.201 ug/l

RT: 8.726 min Scan# 1253

Delta R.T. 0.006 min

Lab File: VX032999.D

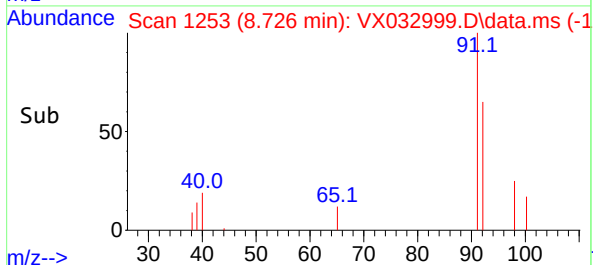
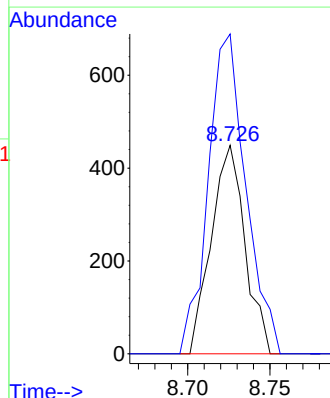
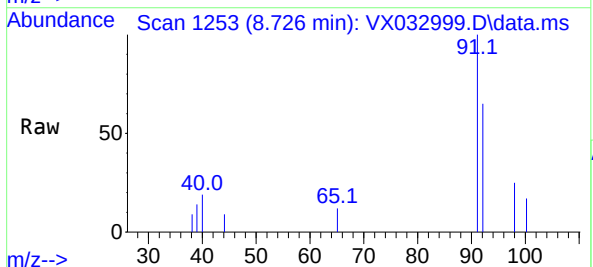
Acq: 22 Nov 2022 23:22

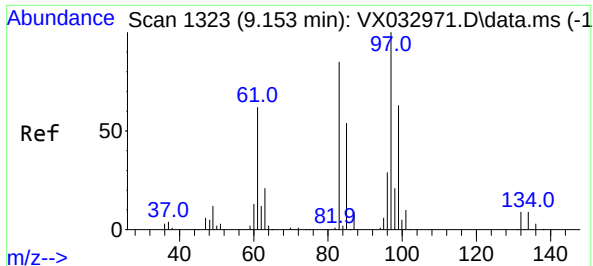
Tgt Ion: 92 Resp: 641

Ion Ratio Lower Upper

92 100

91 171.5 138.3 207.5



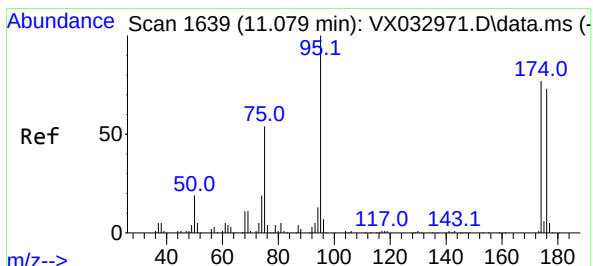
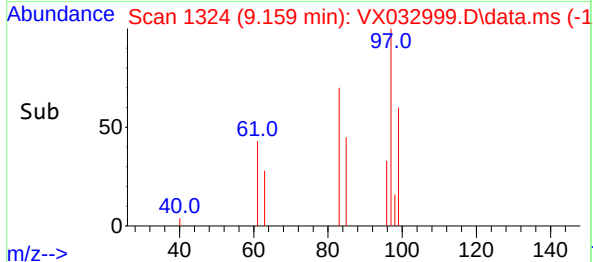
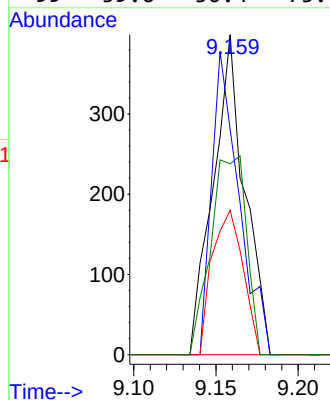
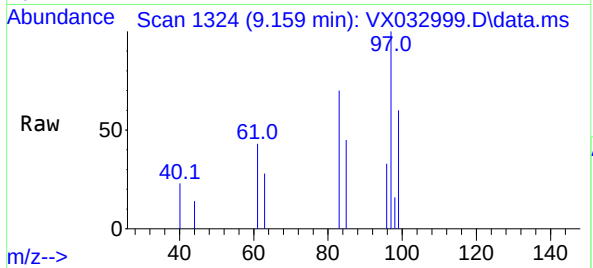


#55  
1,1,2-Trichloroethane  
Concen: 0.412 ug/l  
RT: 9.159 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

Tgt Ion: 97 Resp: 534

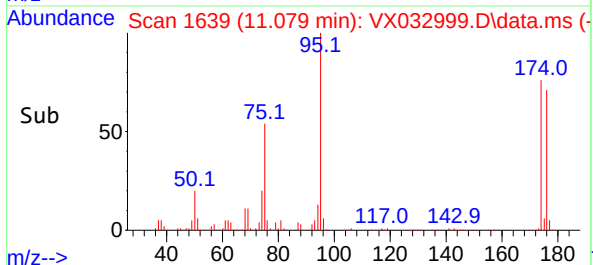
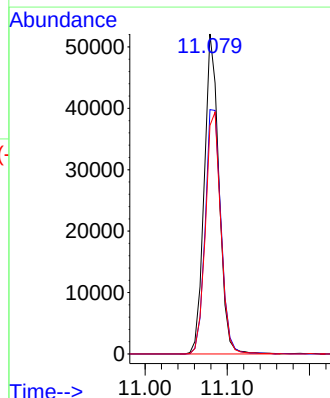
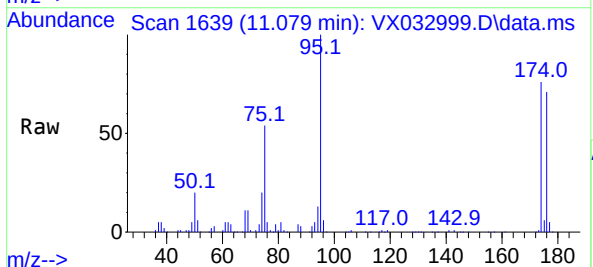
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 70.4  | 68.1  | 102.1 |
| 85  | 45.1  | 43.3  | 64.9  |
| 99  | 59.6  | 50.4  | 75.6  |

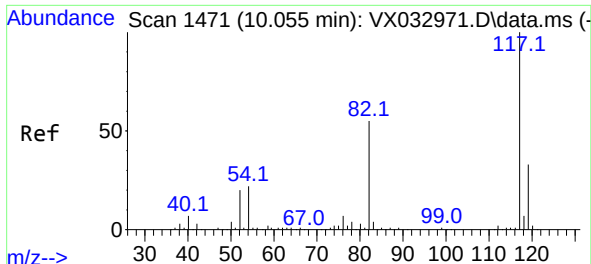


#62  
4-Bromofluorobenzene  
Concen: 45.620 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 95 Resp: 64663

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 82.0  | 0.0   | 164.0 |
| 176 | 79.0  | 0.0   | 154.4 |

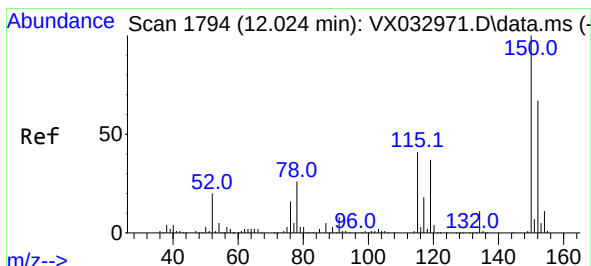
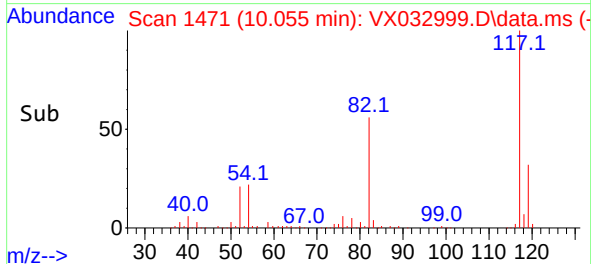
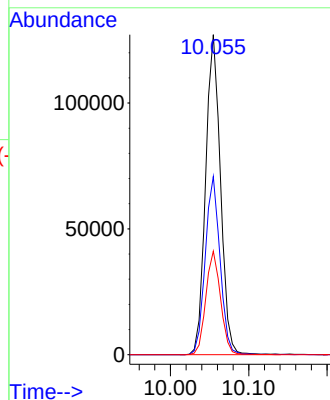
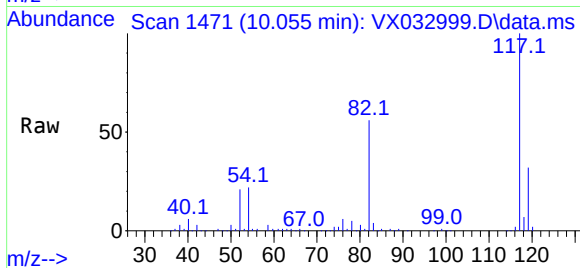




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

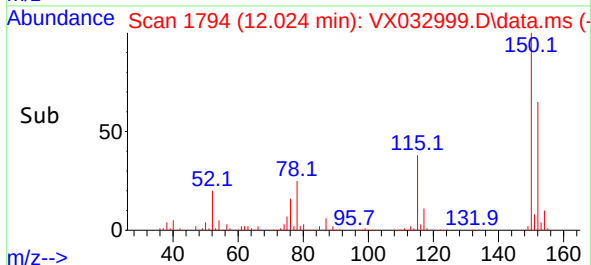
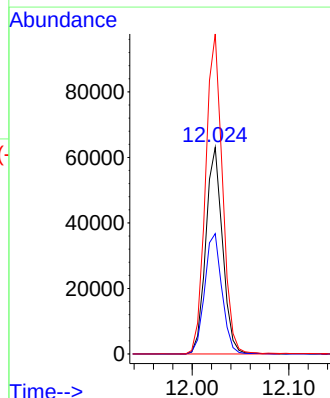
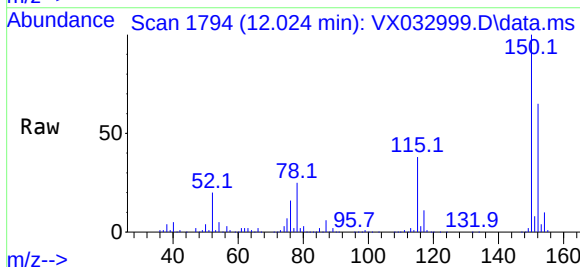
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

Tgt Ion:117 Resp: 167052  
Ion Ratio Lower Upper  
117 100  
82 55.7 44.3 66.5  
119 32.4 25.7 38.5

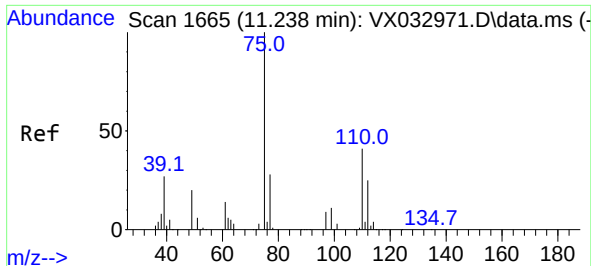


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion:152 Resp: 76004  
Ion Ratio Lower Upper  
152 100  
115 60.2 44.0 132.0  
150 157.1 0.0 351.8



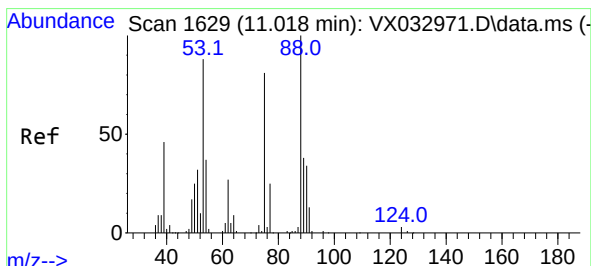
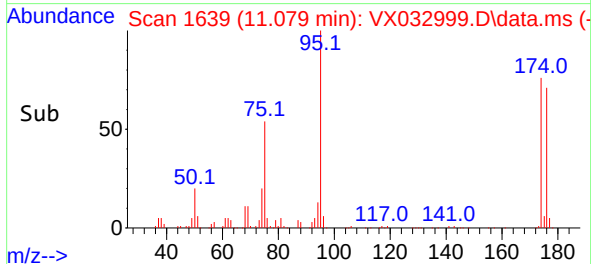
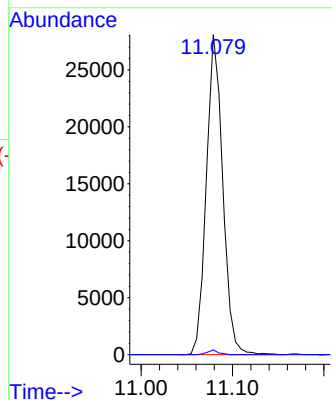
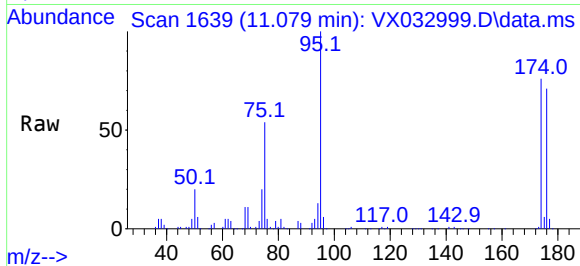




#76  
1,2,3-Trichloropropane  
Concen: 24.273 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D5-20221118

Tgt Ion: 75 Resp: 34939  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.0 60.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 78.900 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX032999.D  
Acq: 22 Nov 2022 23:22

Tgt Ion: 75 Resp: 34939  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.9 130.3#  
89 0.0 38.3 57.5#

