

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111723\  
 Data File : VX038907.D  
 Acq On : 18 Nov 2023 04:21  
 Operator : JC/MD  
 Sample : 05404-22  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 20 00:32:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

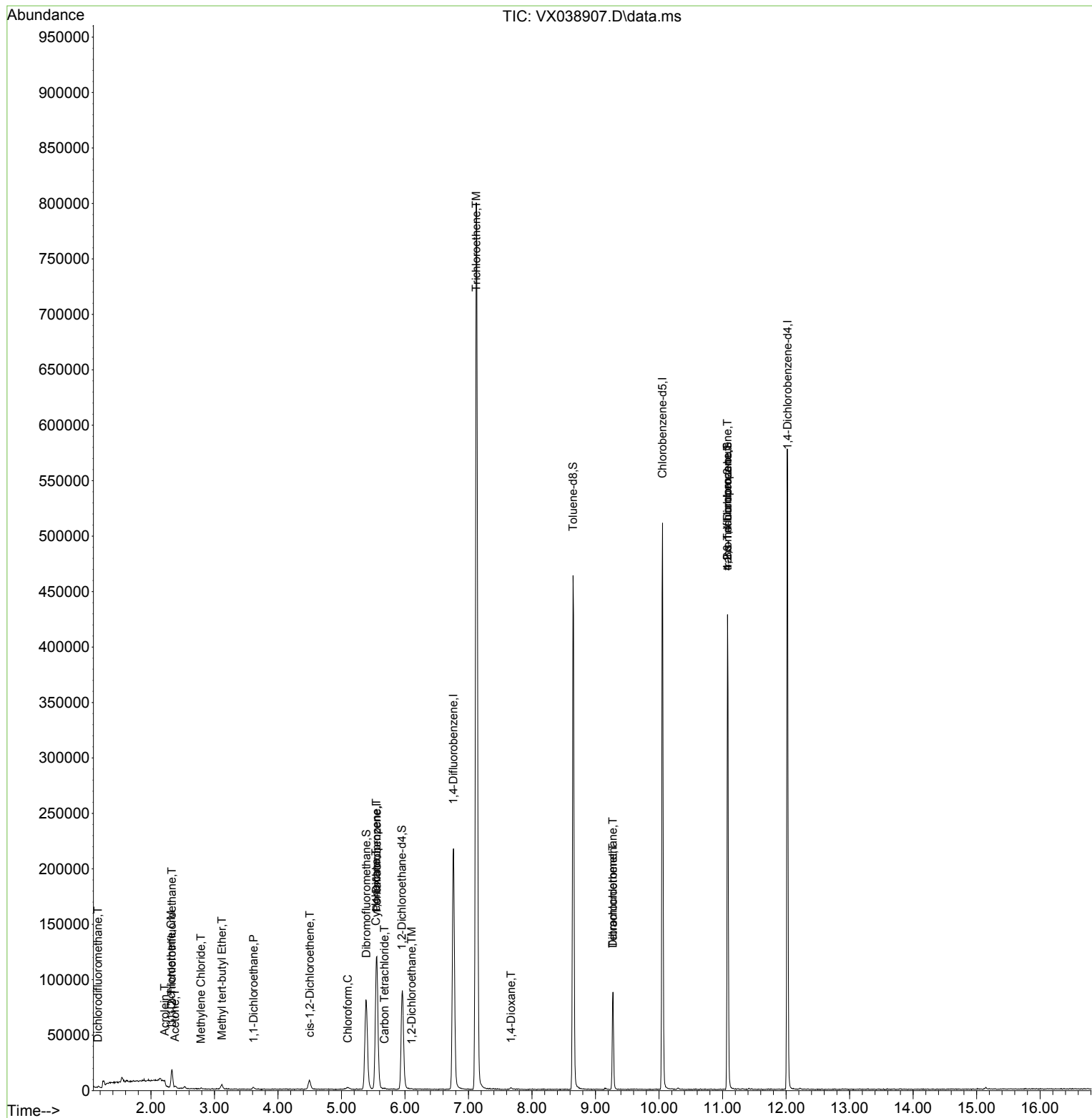
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 109008   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 222573   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 223491   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 112097   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 85541    | 48.700   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 97.400%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 71393    | 44.413   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 88.820%  |
| 50) Toluene-d8                | 8.647  | 98    | 278749   | 45.323   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 90.640%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 117405   | 47.687   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 95.380%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.166  | 85    | 440      | 0.346    | ug/l   | 80       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 5433     | 4.037    | ug/l   | 92       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 1669     | 1.228    | ug/l   | 81       |
| 13) Acrolein                  | 2.215  | 56    | 561      | 2.170    | ug/l # | 14       |
| 16) Acetone                   | 2.380  | 43    | 1156     | 1.236    | ug/l # | 51       |
| 19) Methyl tert-butyl Ether   | 3.117  | 73    | 3958     | 0.828    | ug/l   | 99       |
| 20) Methylene Chloride        | 2.788  | 84    | 361      | 0.214    | ug/l # | 74       |
| 24) 1,1-Dichloroethane        | 3.617  | 63    | 1945     | 0.697    | ug/l # | 85       |
| 27) cis-1,2-Dichloroethene    | 4.501  | 96    | 5011     | 2.868    | ug/l   | 81       |
| 30) Chloroform                | 5.099  | 83    | 2191     | 0.804    | ug/l   | 94       |
| 31) Cyclohexane               | 5.544  | 56    | 3189     | 1.272    | ug/l # | 16       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 10106    | 4.387    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.678  | 117   | 490      | 0.230    | ug/l # | 89       |
| 42) 1,2-Dichloroethane        | 6.105  | 62    | 498      | 0.221    | ug/l # | 77       |
| 44) Trichloroethene           | 7.123  | 130   | 299036   | 180.291  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 7.671  | 88    | 1189     | 26.406   | ug/l # | 94       |
| 60) Dibromochloromethane      | 9.275  | 129   | 15846    | 8.833    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 14595    | 10.506   | ug/l   | 91       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 60522    | 21.640   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 60522    | 47.999   | ug/l # | 5        |

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

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Quant Time: Nov 20 00:32:04 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 2023  
Response via : Initial Calibration

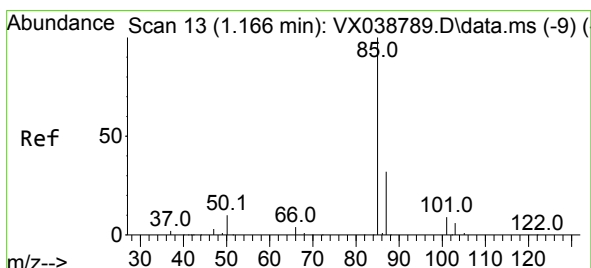
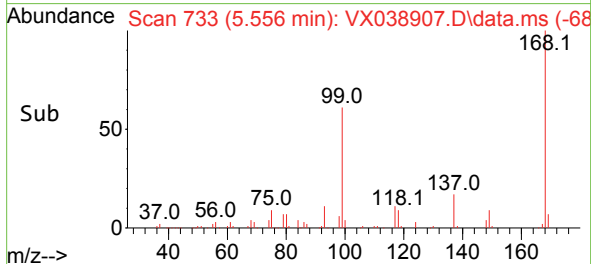
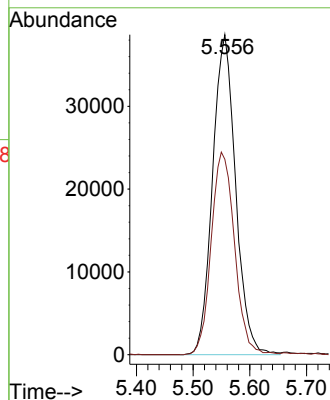
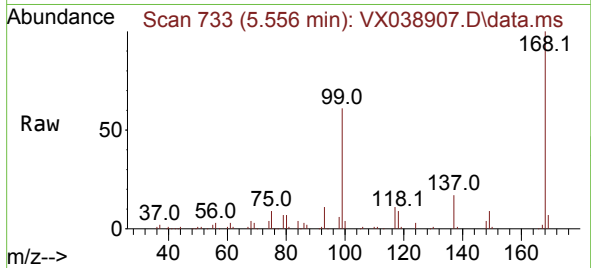




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

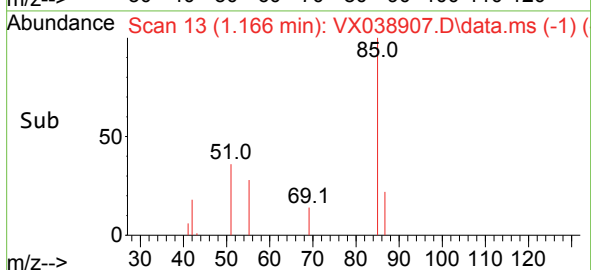
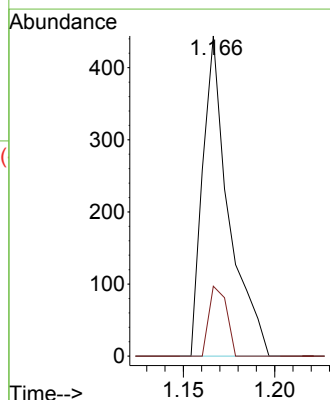
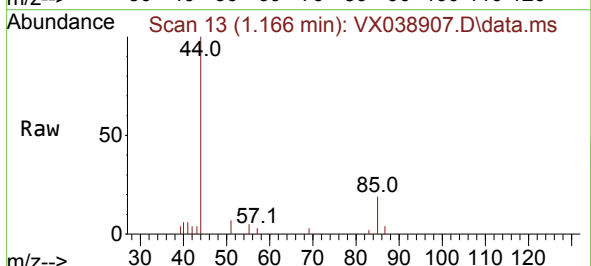
Instrument :  
MSVOA\_X  
ClientSampleId :

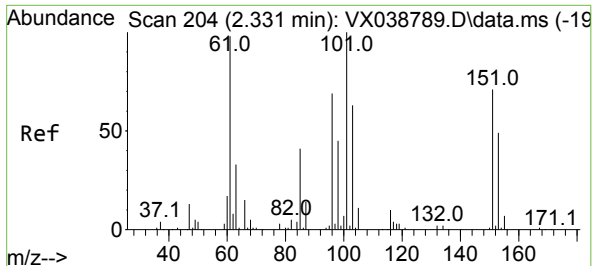
Tgt Ion:168 Resp: 109008  
Ion Ratio Lower Upper  
168 100  
99 61.0 56.6 85.0



#2  
Dichlorodifluoromethane  
Concen: 0.346 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion: 85 Resp: 440  
Ion Ratio Lower Upper  
85 100  
87 21.8 16.7 50.1

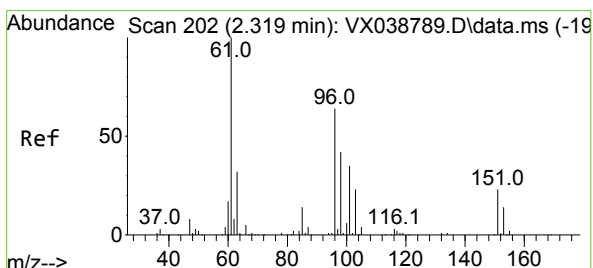
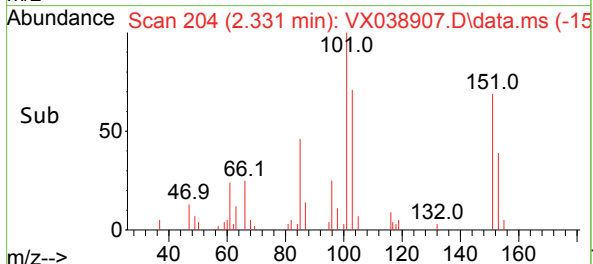
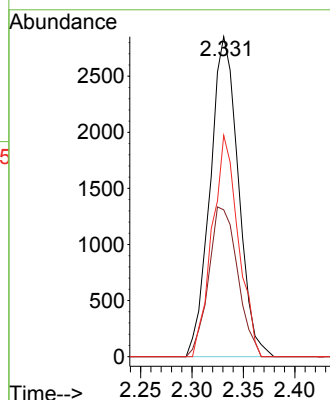
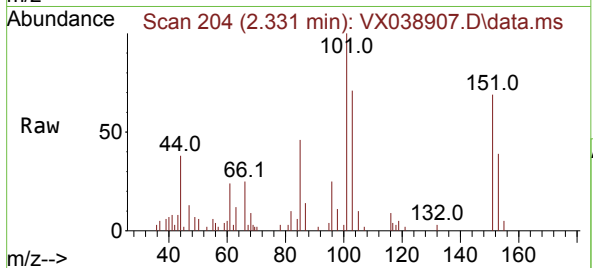




#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 4.037 ug/l  
 RT: 2.331 min Scan# 204  
 Delta R.T. 0.000 min  
 Lab File: VX038907.D  
 Acq: 18 Nov 2023 04:21

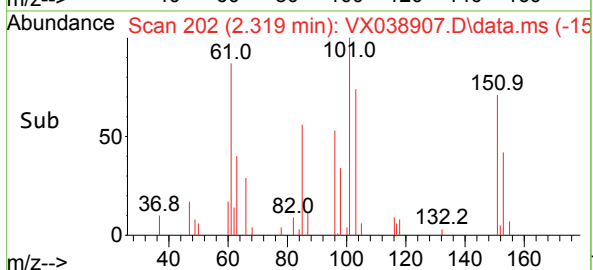
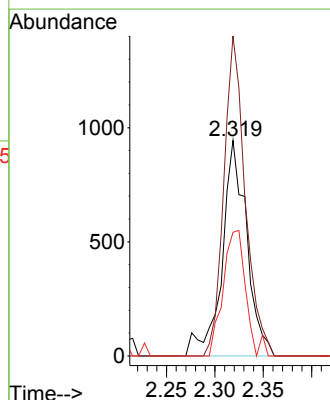
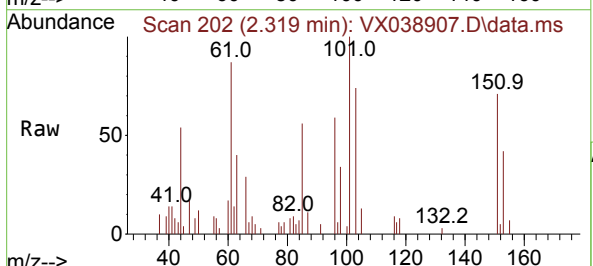
Instrument :  
 MSVOA\_X  
 ClientSampleId :

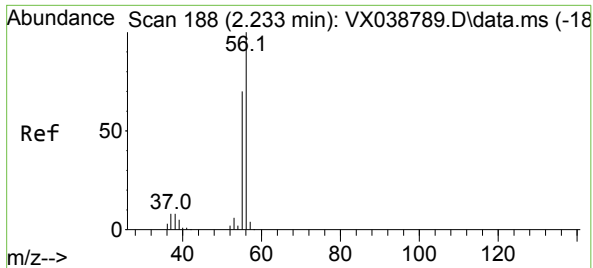
Tgt Ion:101 Resp: 5433  
 Ion Ratio Lower Upper  
 101 100  
 85 48.1 37.0 55.6  
 151 64.3 58.6 87.8



#12  
 1,1-Dichloroethene  
 Concen: 1.228 ug/l  
 RT: 2.319 min Scan# 202  
 Delta R.T. 0.000 min  
 Lab File: VX038907.D  
 Acq: 18 Nov 2023 04:21

Tgt Ion: 96 Resp: 1669  
 Ion Ratio Lower Upper  
 96 100  
 61 148.5 144.6 216.8  
 98 57.4 50.4 75.6

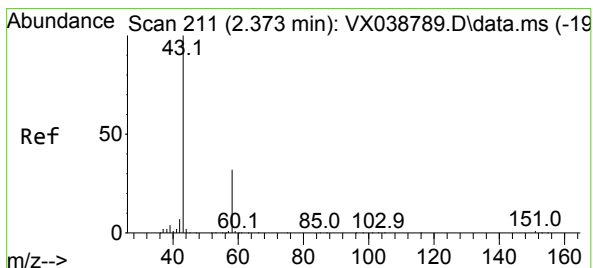
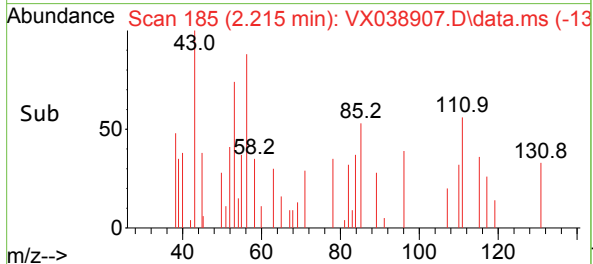
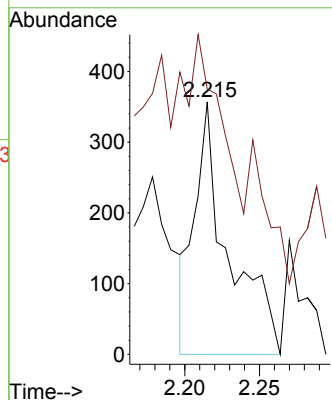
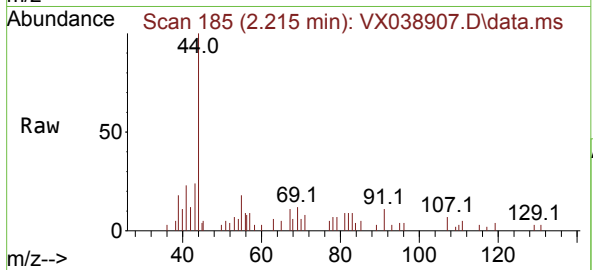




#13  
Acrolein  
Concen: 2.170 ug/l  
RT: 2.215 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

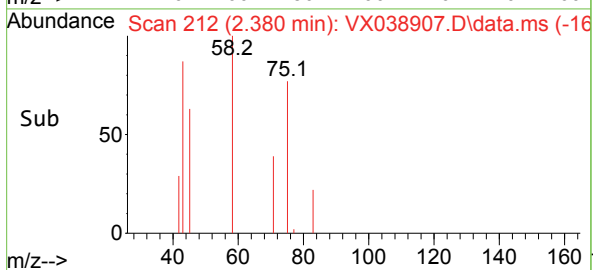
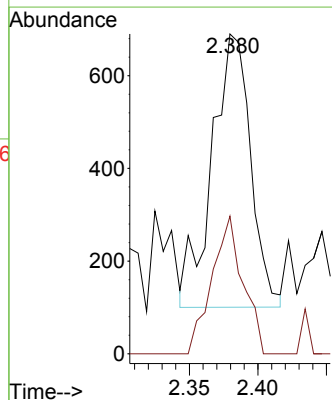
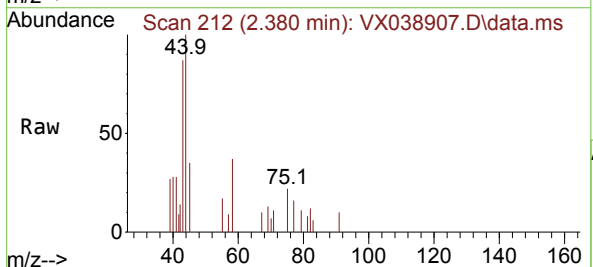
Instrument :  
MSVOA\_X  
ClientSampleId :

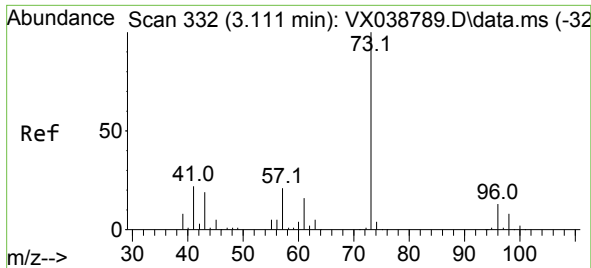
Tgt Ion: 56 Resp: 561  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 1.236 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion: 43 Resp: 1156  
Ion Ratio Lower Upper  
43 100  
58 52.8 21.9 32.9#

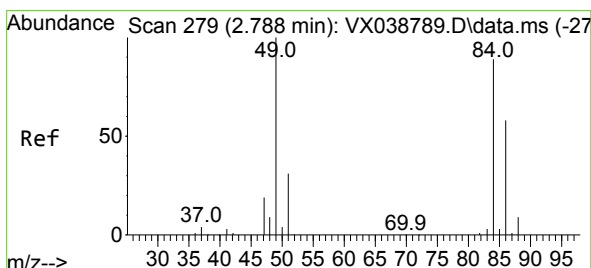
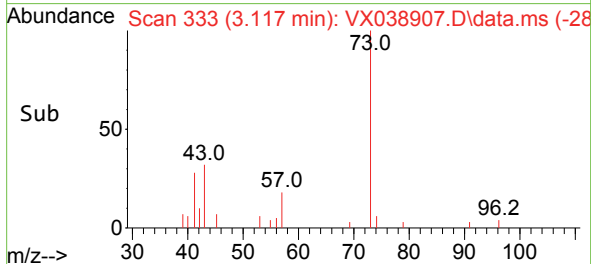
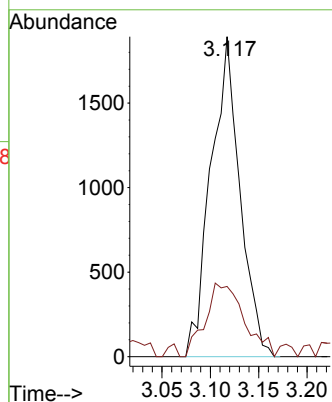
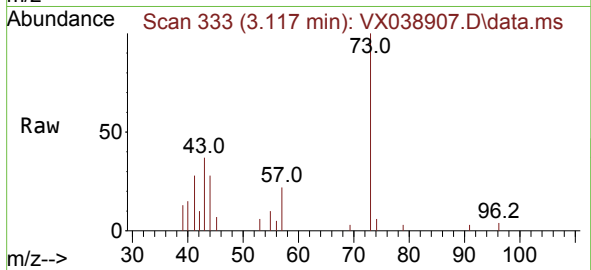




#19  
Methyl tert-butyl Ether  
Concen: 0.828 ug/l  
RT: 3.117 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

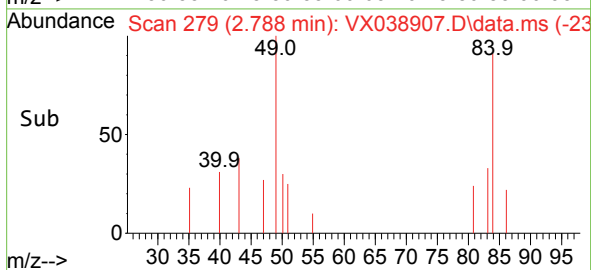
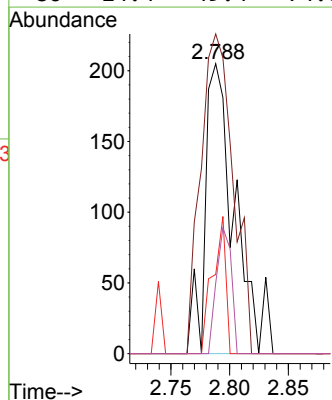
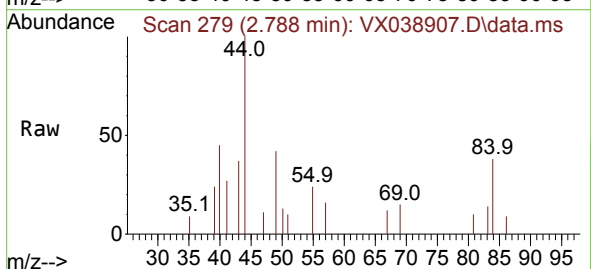
Instrument :  
MSVOA\_X  
ClientSampleId :

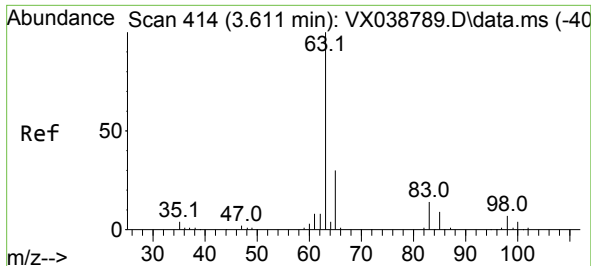
Tgt Ion: 73 Resp: 3958  
Ion Ratio Lower Upper  
73 100  
57 21.9 17.3 25.9



#20  
Methylene Chloride  
Concen: 0.214 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion: 84 Resp: 361  
Ion Ratio Lower Upper  
84 100  
49 110.2 103.6 155.4  
51 27.3 33.8 50.6#  
86 24.4 49.4 74.0#

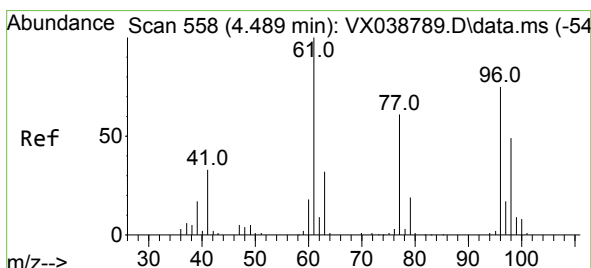
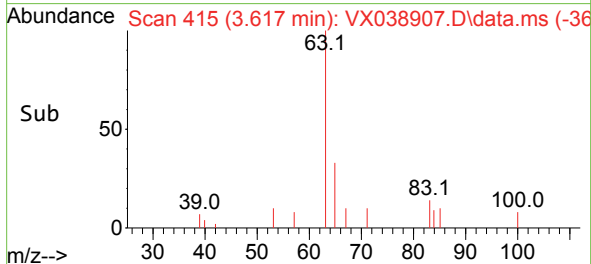
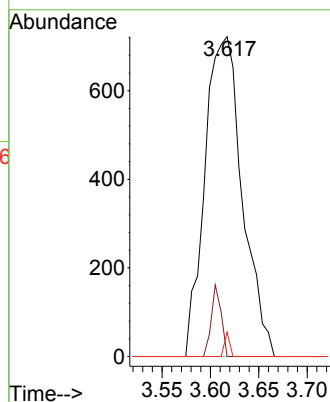
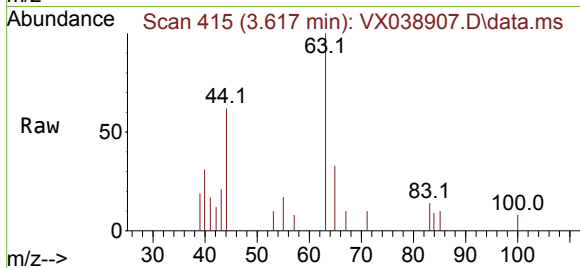




#24  
1,1-Dichloroethane  
Concen: 0.697 ug/l  
RT: 3.617 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

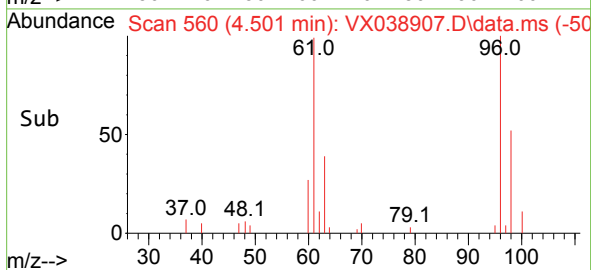
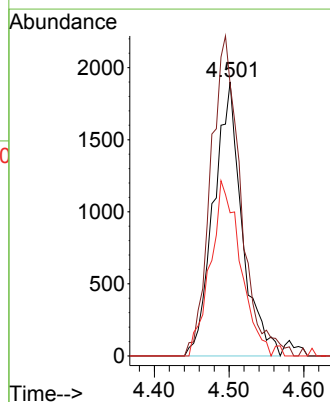
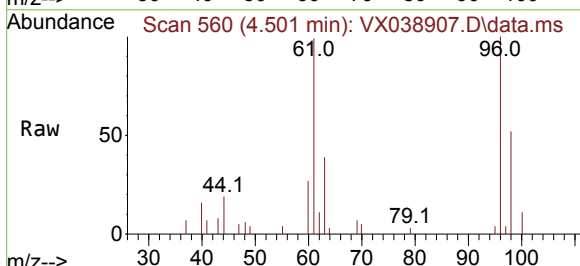
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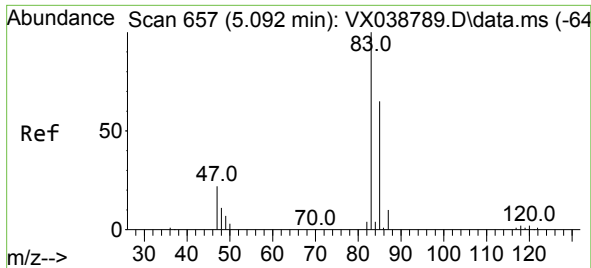
Tgt Ion: 63 Resp: 1945  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.8#  
100 7.6 2.1 6.5#



#27  
cis-1,2-Dichloroethene  
Concen: 2.868 ug/l  
RT: 4.501 min Scan# 560  
Delta R.T. 0.012 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion: 96 Resp: 5011  
Ion Ratio Lower Upper  
96 100  
61 123.5 0.0 312.2  
98 67.7 0.0 129.0

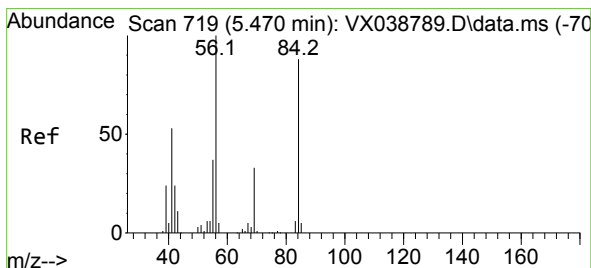
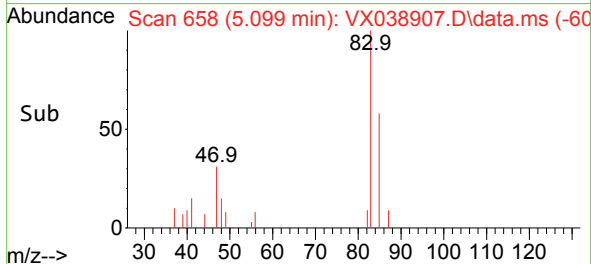
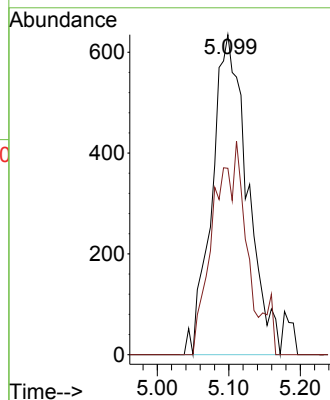
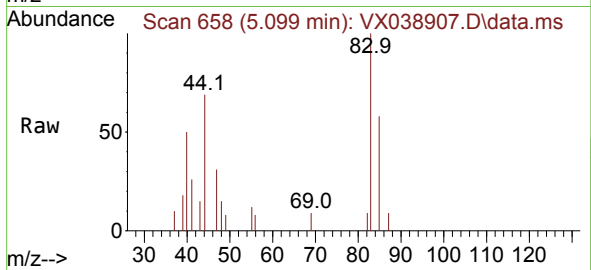




#30  
Chloroform  
Concen: 0.804 ug/l  
RT: 5.099 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

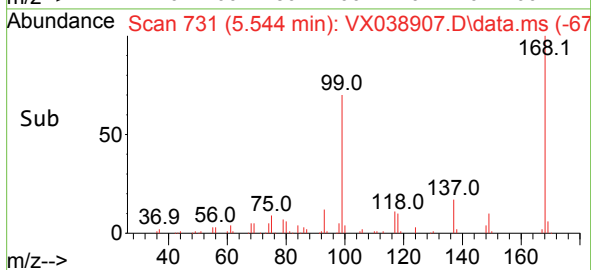
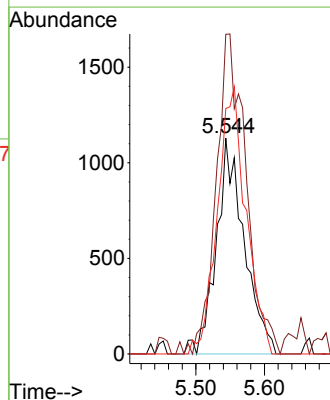
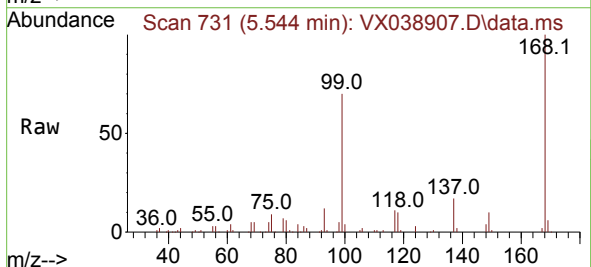
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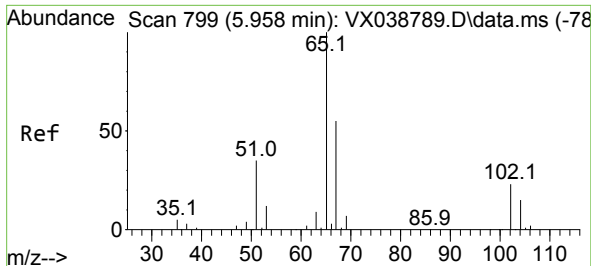
Tgt Ion: 83 Resp: 2191  
Ion Ratio Lower Upper  
83 100  
85 58.3 50.3 75.5



#31  
Cyclohexane  
Concen: 1.272 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.073 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion: 56 Resp: 3189  
Ion Ratio Lower Upper  
56 100  
69 148.1 23.4 35.2#  
84 113.7 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 48.700 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX038907.D

Acq: 18 Nov 2023 04:21

Instrument :

MSVOA\_X

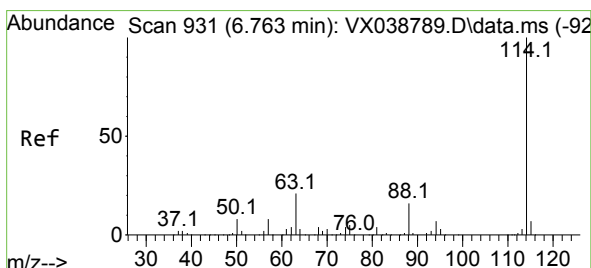
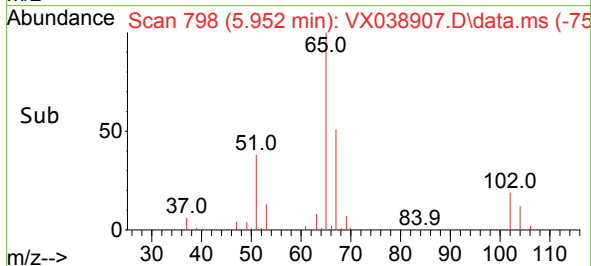
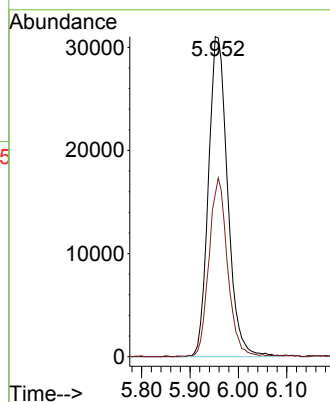
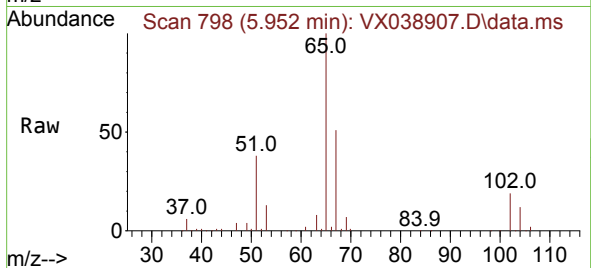
ClientSampleId :

Tgt Ion: 65 Resp: 85541

Ion Ratio Lower Upper

65 100

67 54.3 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX038907.D

Acq: 18 Nov 2023 04:21

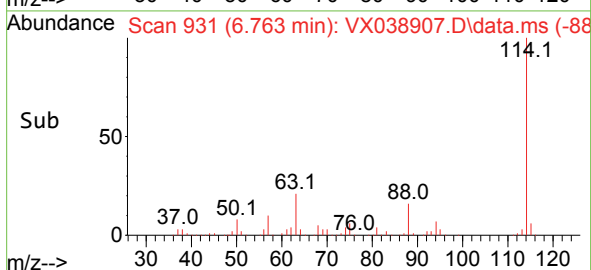
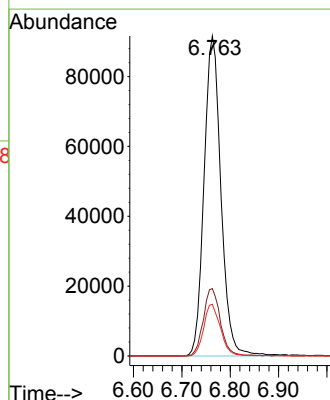
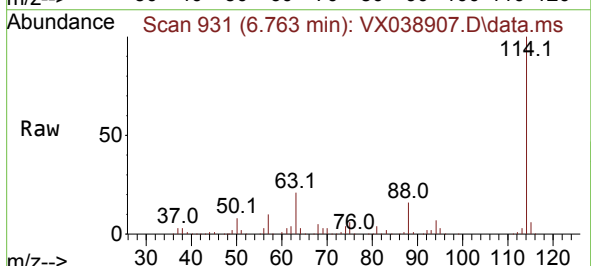
Tgt Ion: 114 Resp: 222573

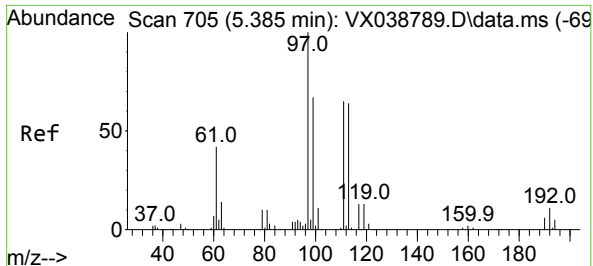
Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.0

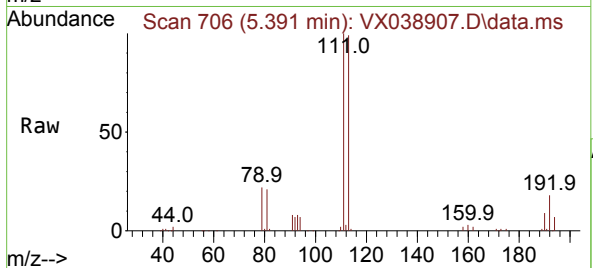
88 16.2 0.0 36.6



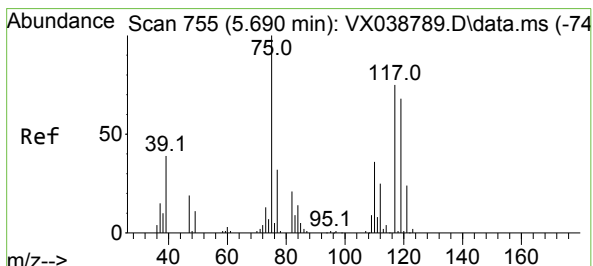
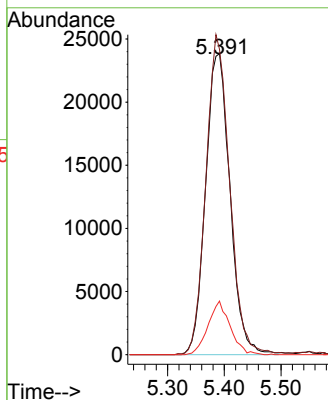
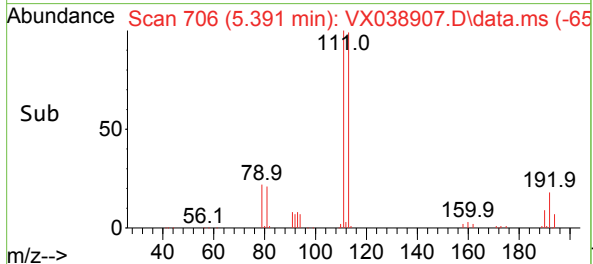


#35  
Dibromofluoromethane  
Concen: 44.413 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

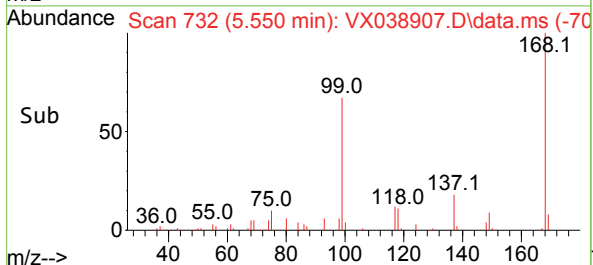
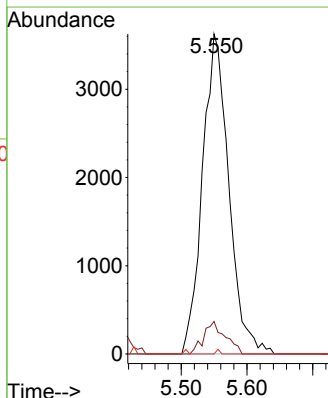
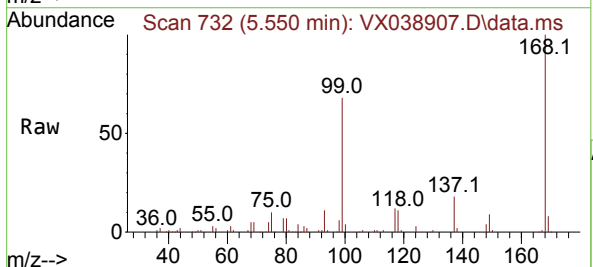


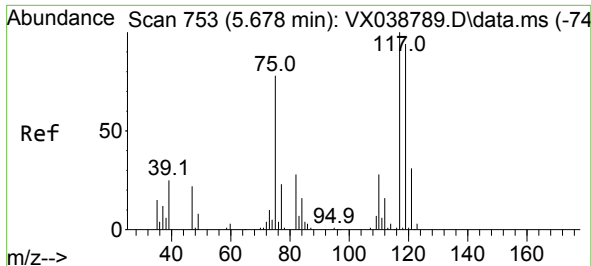
Tgt Ion:113 Resp: 71393  
Ion Ratio Lower Upper  
113 100  
111 103.7 82.9 124.3  
192 16.1 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.387 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

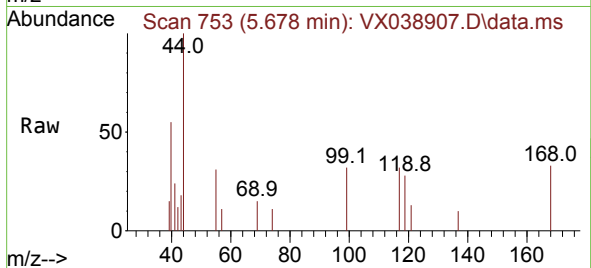
Tgt Ion: 75 Resp: 10106  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.0 50.9#  
77 0.2 24.7 37.1#



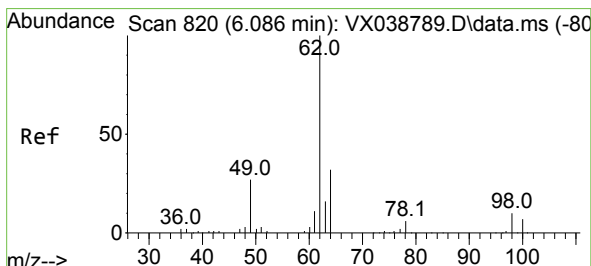
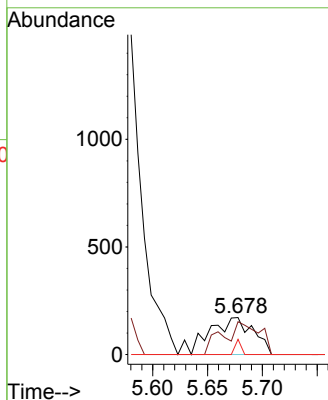
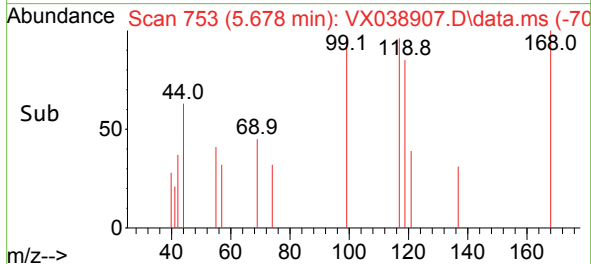


#38  
Carbon Tetrachloride  
Concen: 0.230 ug/l  
RT: 5.678 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

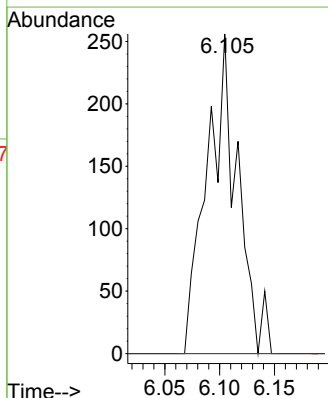
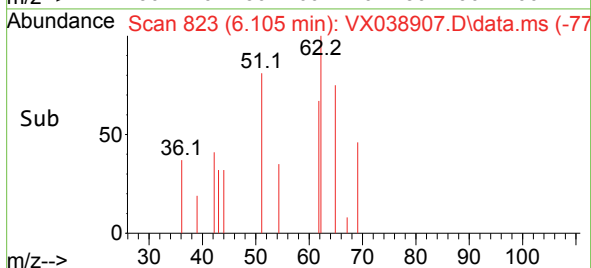
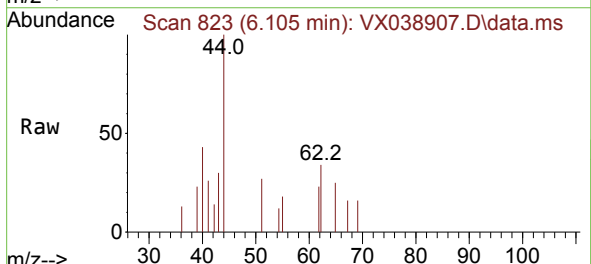


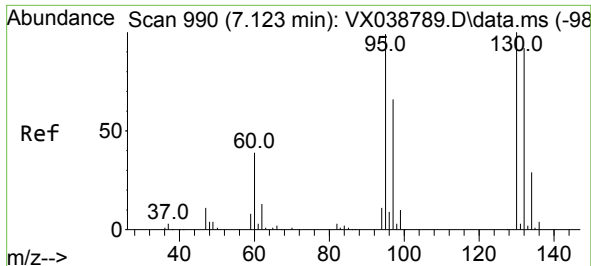
Tgt Ion:117 Resp: 490  
Ion Ratio Lower Upper  
117 100  
119 89.0 78.2 117.2  
121 41.3 24.4 36.6#



#42  
1,2-Dichloroethane  
Concen: 0.221 ug/l  
RT: 6.105 min Scan# 823  
Delta R.T. 0.018 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion: 62 Resp: 498  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 16.0

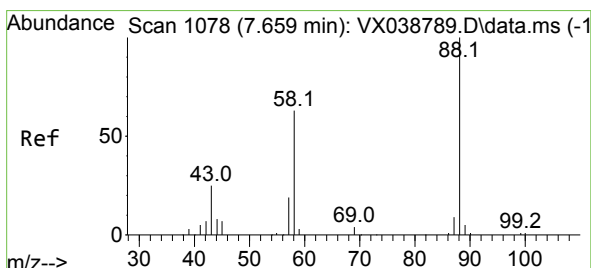
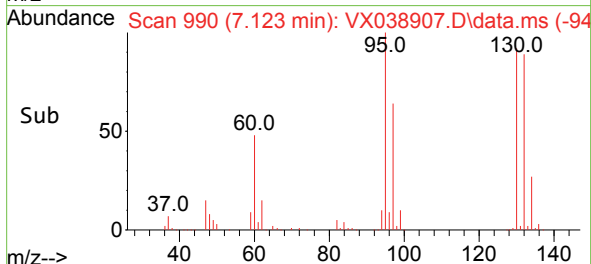
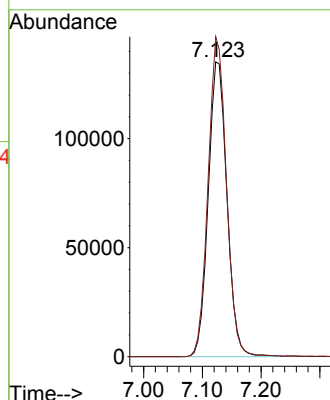
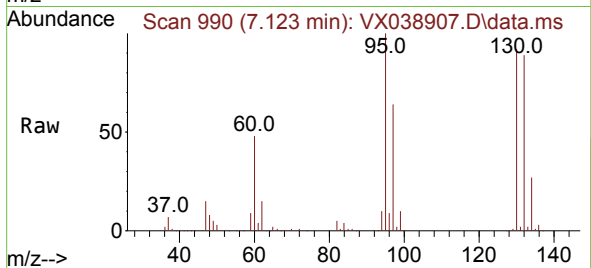




#44  
Trichloroethene  
Concen: 180.291 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

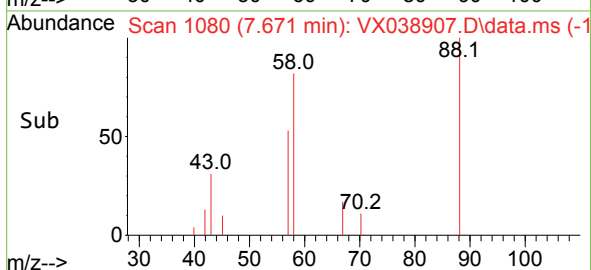
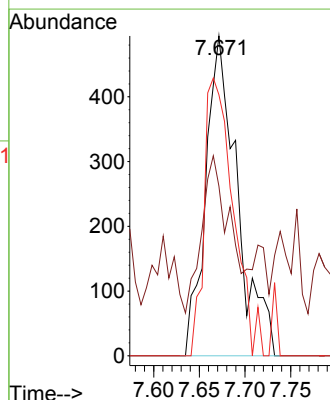
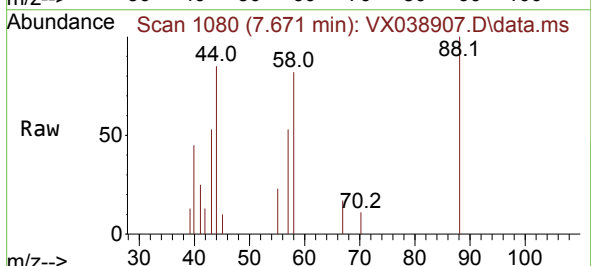
Instrument :  
MSVOA\_X  
ClientSampleId :

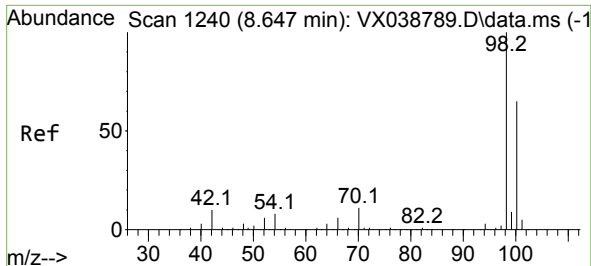
Tgt Ion:130 Resp: 299036  
Ion Ratio Lower Upper  
130 100  
95 108.5 0.0 204.4



#49  
1,4-Dioxane  
Concen: 26.406 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.012 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion: 88 Resp: 1189  
Ion Ratio Lower Upper  
88 100  
43 45.8 0.0 0.0#  
58 79.9 60.1 90.1

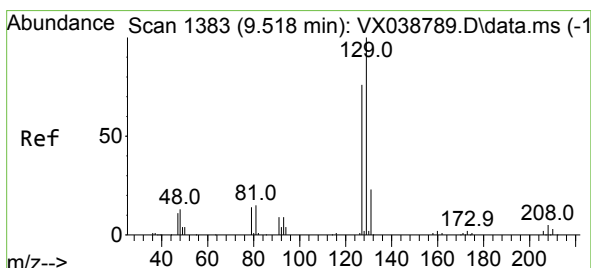
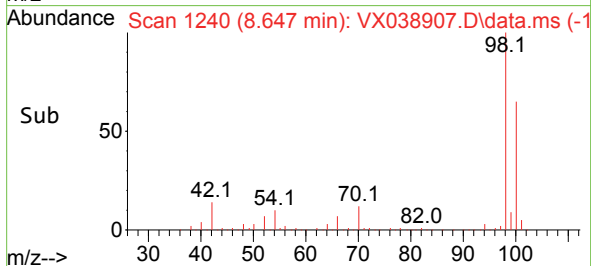
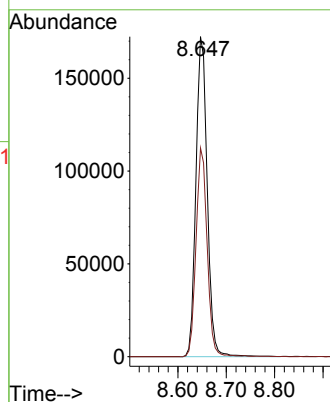
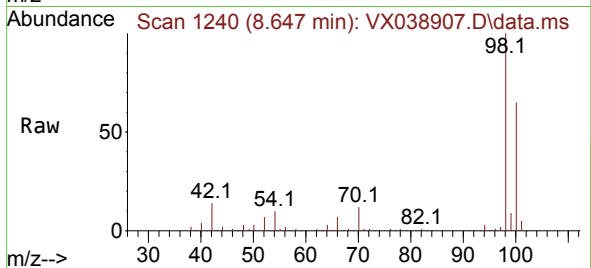




#50  
Toluene-d8  
Concen: 45.323 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

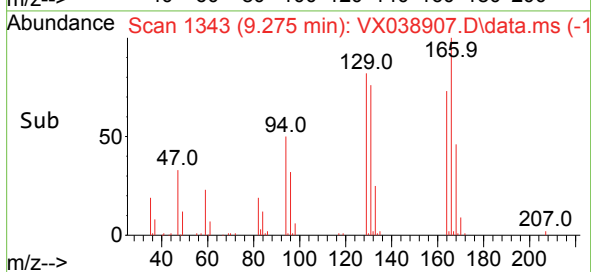
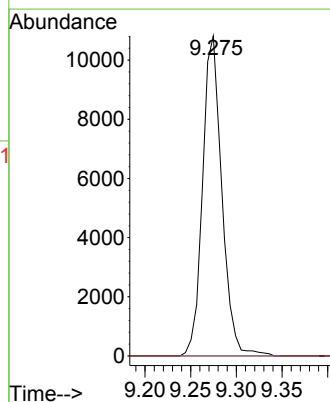
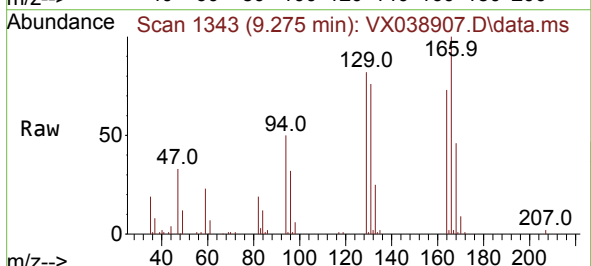
Instrument :  
MSVOA\_X  
ClientSampleId :

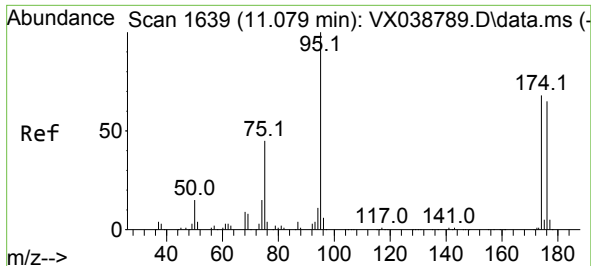
Tgt Ion: 98 Resp: 278749  
Ion Ratio Lower Upper  
98 100  
100 64.1 53.1 79.7



#60  
Dibromochloromethane  
Concen: 8.833 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.244 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion:129 Resp: 15846  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#





#62

4-Bromofluorobenzene

Concen: 47.687 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038907.D

Acq: 18 Nov 2023 04:21

Instrument :

MSVOA\_X

ClientSampleId :

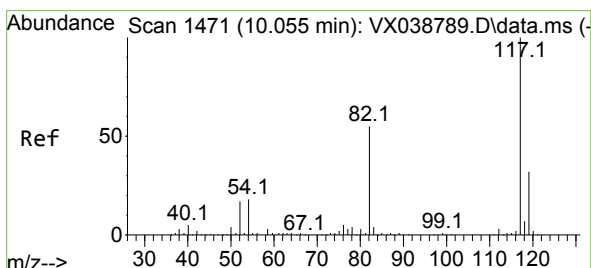
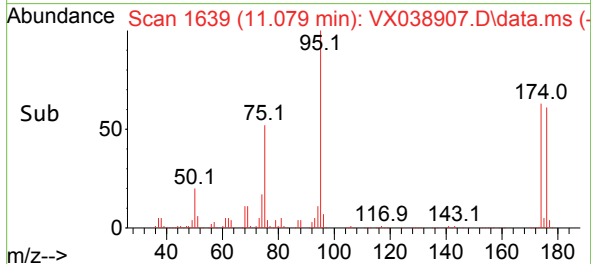
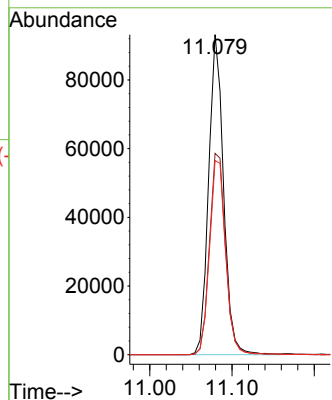
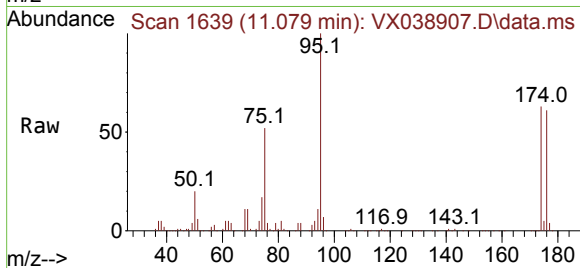
Tgt Ion: 95 Resp: 117405

Ion Ratio Lower Upper

95 100

174 67.9 0.0 135.6

176 65.4 0.0 131.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX038907.D

Acq: 18 Nov 2023 04:21

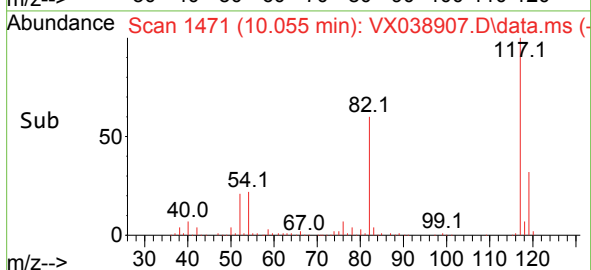
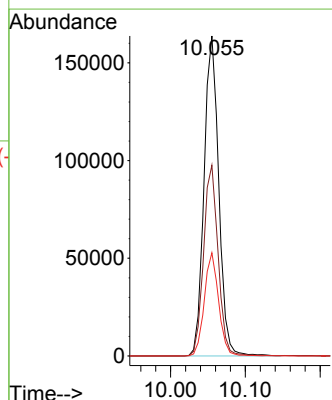
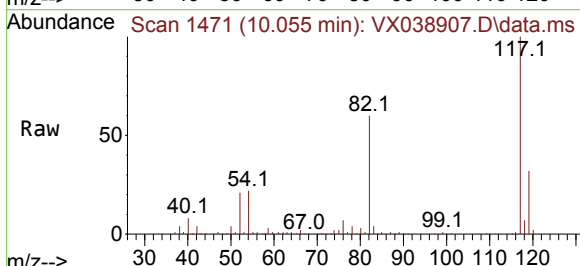
Tgt Ion: 117 Resp: 223491

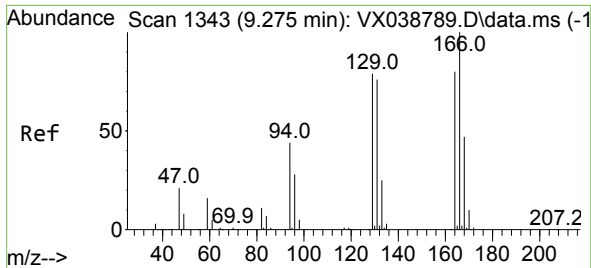
Ion Ratio Lower Upper

117 100

82 59.6 46.2 69.4

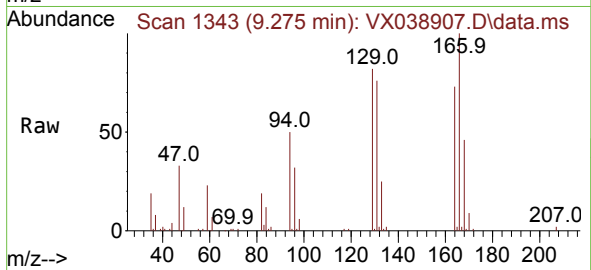
119 32.3 25.5 38.3



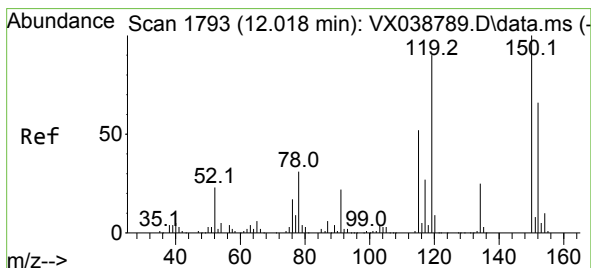
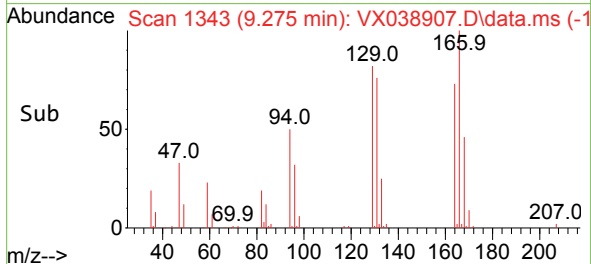
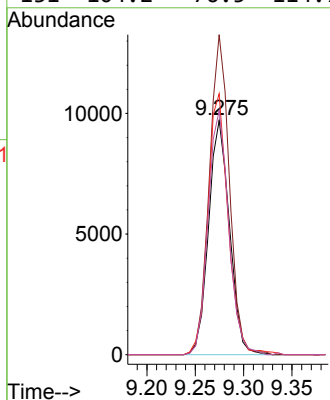


#64  
Tetrachloroethene  
Concen: 10.506 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

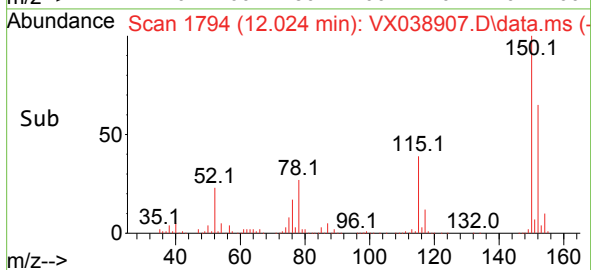
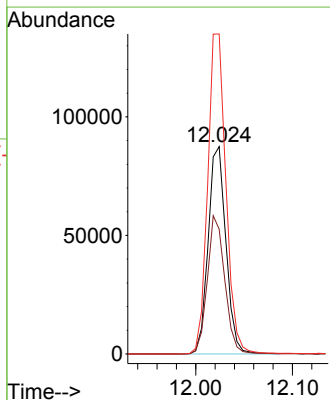
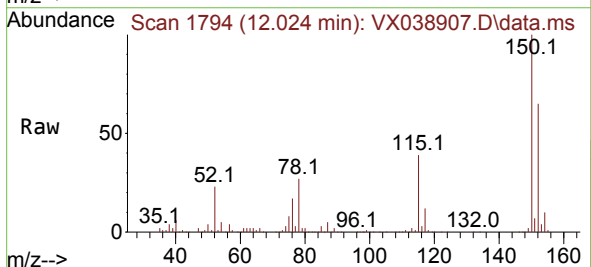


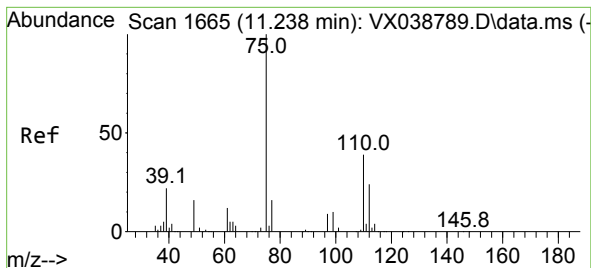
Tgt Ion:164 Resp: 14595  
Ion Ratio Lower Upper  
164 100  
166 136.6 102.7 154.1  
129 111.4 80.4 120.6  
131 104.2 76.5 114.7



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.006 min  
Lab File: VX038907.D  
Acq: 18 Nov 2023 04:21

Tgt Ion:152 Resp: 112097  
Ion Ratio Lower Upper  
152 100  
115 65.3 43.3 129.9  
150 158.5 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 21.640 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX038907.D

Acq: 18 Nov 2023 04:21

Instrument :

MSVOA\_X

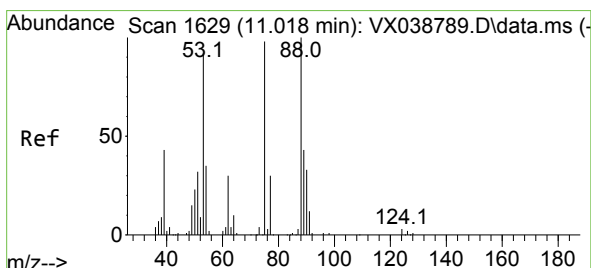
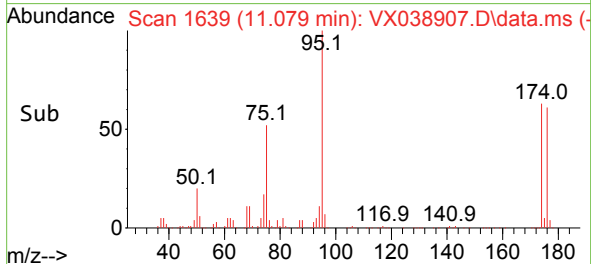
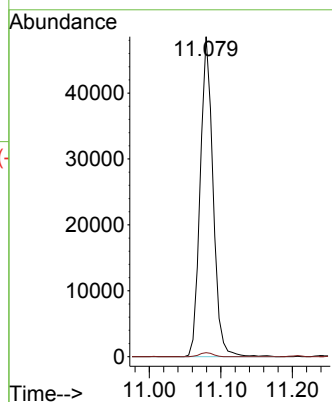
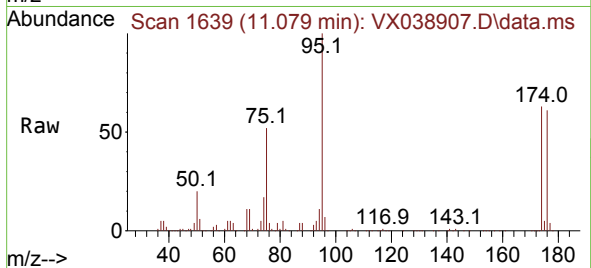
ClientSampleId :

Tgt Ion: 75 Resp: 60522

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 47.999 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038907.D

Acq: 18 Nov 2023 04:21

Tgt Ion: 75 Resp: 60522

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.1 36.9 55.3#

