

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082823\  
 Data File : VX037318.D  
 Acq On : 29 Aug 2023 04:21  
 Operator : JC/MD  
 Sample : 04126-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

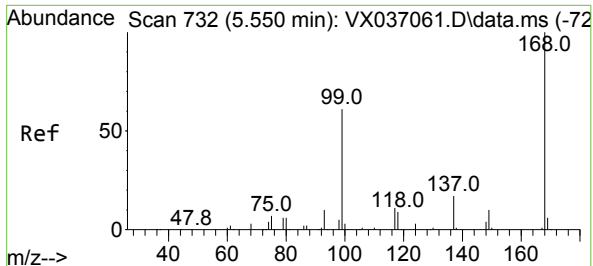
Quant Time: Aug 29 07:20:00 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 152150   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 249525   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 222105   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 102394   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 92455    | 42.149   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 84.300%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 75949    | 45.959   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 91.920%  |
| 50) Toluene-d8                | 8.647  | 98    | 292275   | 48.758   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.520%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 108627   | 46.112   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 92.220%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 191256   | 118.914  | ug/l   | 96       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 3118     | 1.991    | ug/l # | 78       |
| 16) Acetone                   | 2.380  | 43    | 684      | 0.797    | ug/l # | 78       |
| 22) Diisopropyl ether         | 3.764  | 45    | 1504     | 0.302    | ug/l # | 66       |
| 23) Vinyl Acetate             | 3.764  | 43    | 821      | 0.215    | ug/l # | 73       |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 919      | 0.295    | ug/l # | 83       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 8490     | 4.045    | ug/l   | 79       |
| 29) Tetrahydrofuran           | 5.038  | 42    | 235      | 0.285    | ug/l # | 55       |
| 30) Chloroform                | 5.086  | 83    | 1103     | 0.315    | ug/l # | 77       |
| 31) Cyclohexane               | 5.556  | 56    | 2972     | 1.205    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11585    | 4.934    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 15794    | 6.193    | ug/l # | 16       |
| 39) Methylcyclohexane         | 7.123  | 83    | 3166     | 1.283    | ug/l # | 1        |
| 42) 1,2-Dichloroethane        | 6.086  | 62    | 758      | 0.287    | ug/l # | 77       |
| 44) Trichloroethene           | 7.123  | 130   | 265568   | 139.089  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.665  | 88    | 1521     | 30.414   | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1081     | 0.468    | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.269  | 129   | 24690    | 12.801   | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 25237    | 15.576   | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 53770    | 24.658   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 53770    | 68.870   | ug/l # | 5        |

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

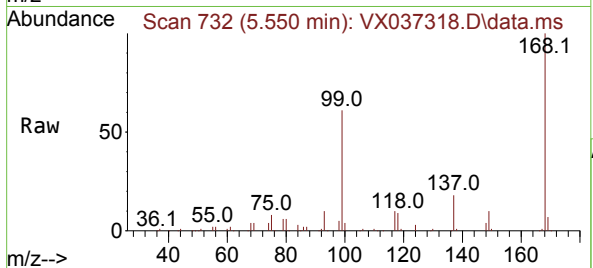
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Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration



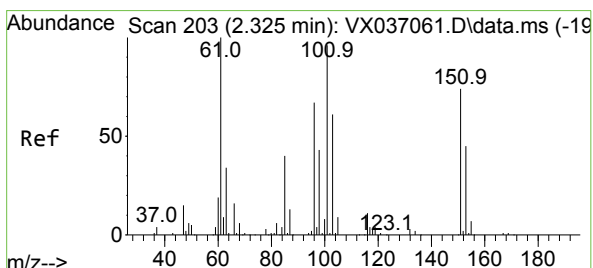
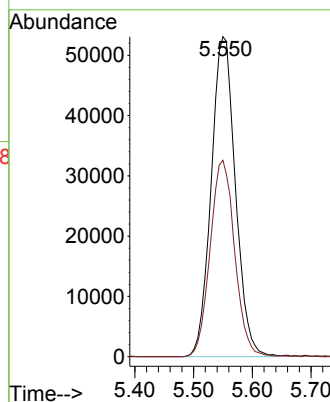
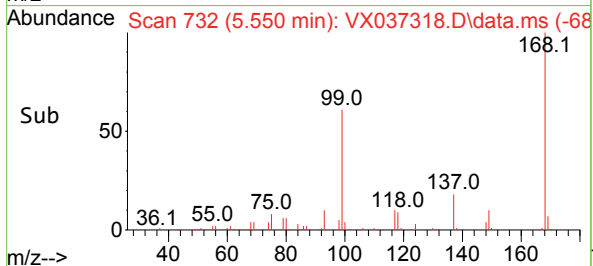


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

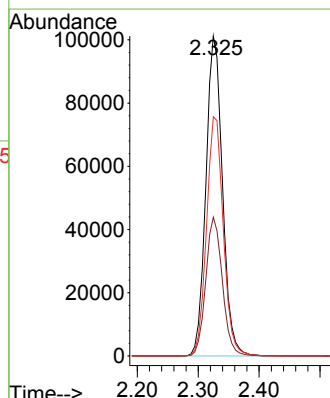
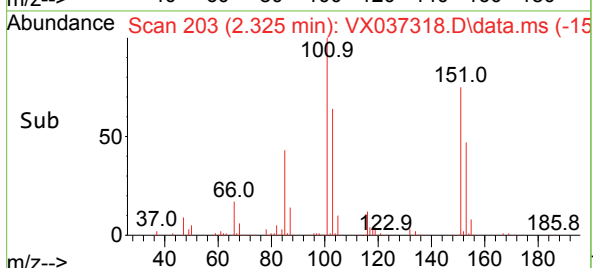
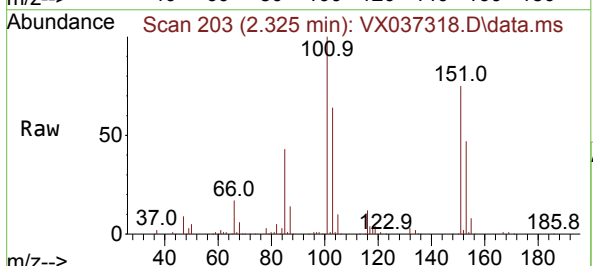


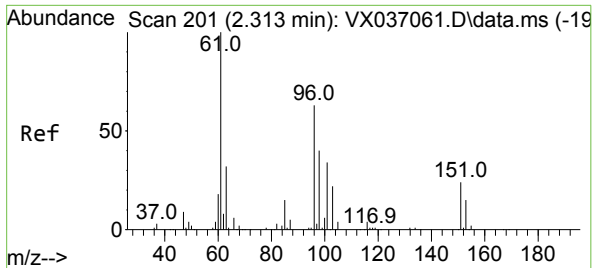
Tgt Ion:168 Resp: 152150  
Ion Ratio Lower Upper  
168 100  
99 61.4 56.6 85.0



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 118.914 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Tgt Ion:101 Resp: 191256  
Ion Ratio Lower Upper  
101 100  
85 43.4 37.0 55.6  
151 75.8 58.6 87.8

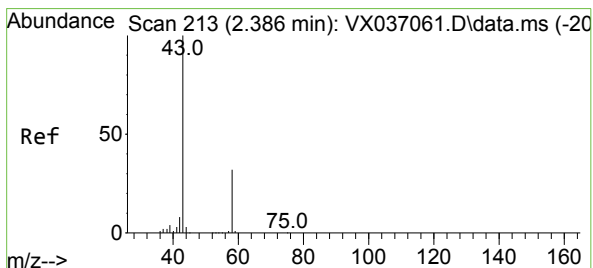
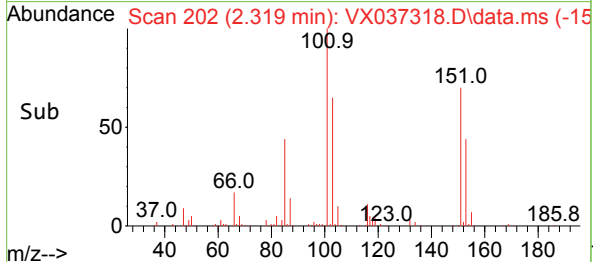
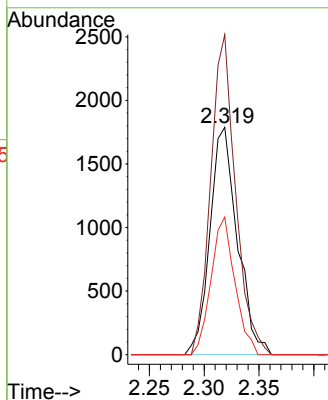
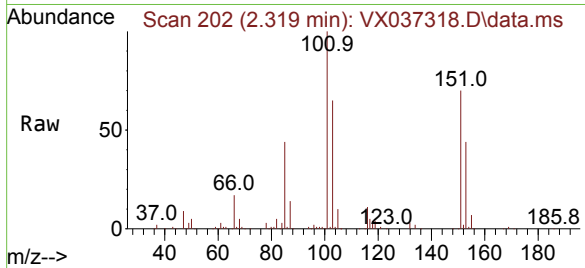




#12  
 1,1-Dichloroethene  
 Concen: 1.991 ug/l  
 RT: 2.319 min Scan# 20  
 Delta R.T. 0.006 min  
 Lab File: VX037318.D  
 Acq: 29 Aug 2023 04:21

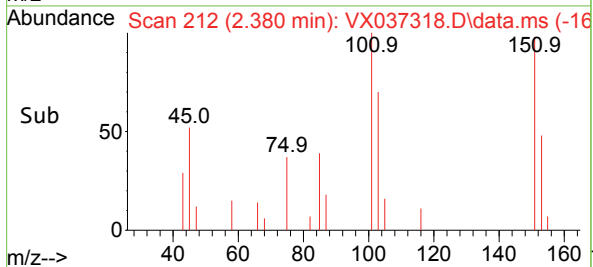
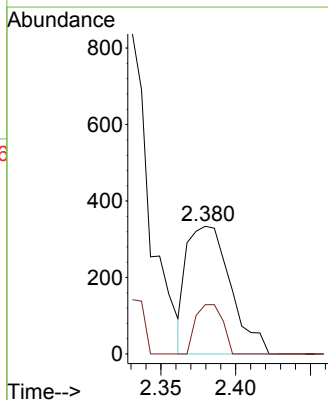
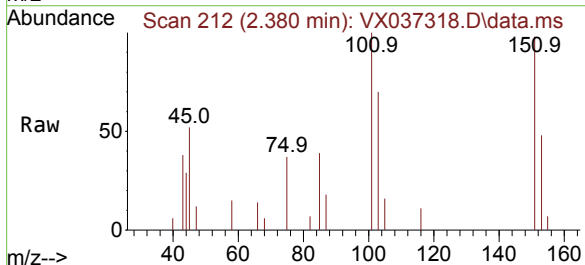
Instrument :  
 MSVOA\_X  
 ClientSampleId :

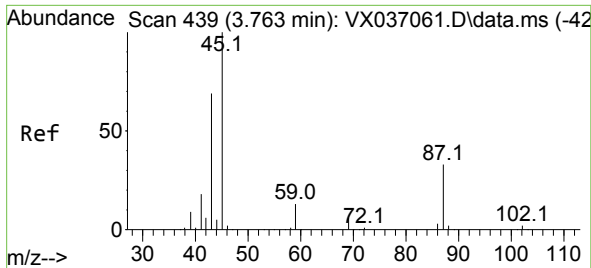
Tgt Ion: 96 Resp: 3118  
 Ion Ratio Lower Upper  
 96 100  
 61 140.8 144.6 216.8#  
 98 60.5 50.4 75.6



#16  
 Acetone  
 Concen: 0.797 ug/l  
 RT: 2.380 min Scan# 212  
 Delta R.T. -0.006 min  
 Lab File: VX037318.D  
 Acq: 29 Aug 2023 04:21

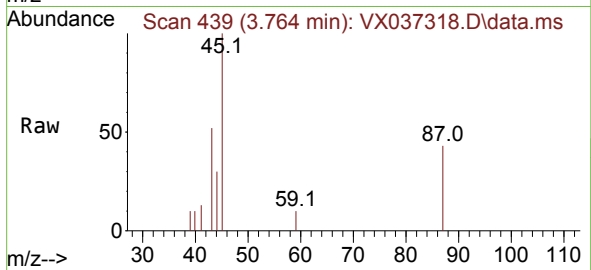
Tgt Ion: 43 Resp: 684  
 Ion Ratio Lower Upper  
 43 100  
 58 38.6 21.9 32.9#



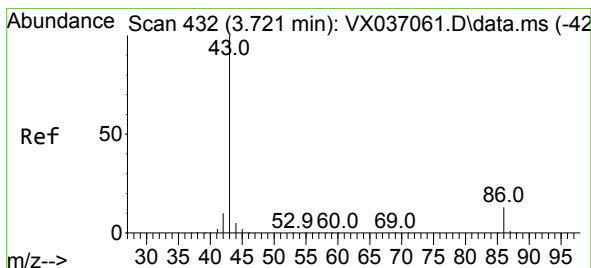
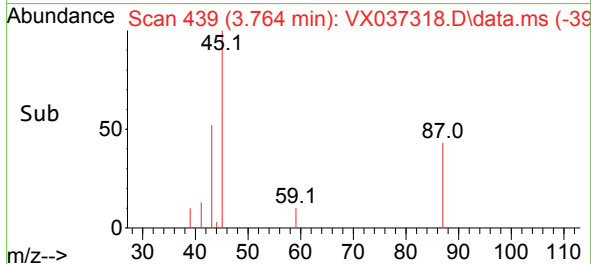
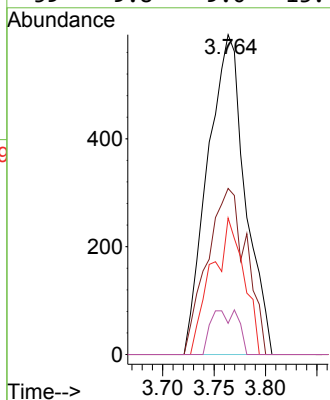


#22  
Diisopropyl ether  
Concen: 0.302 ug/l  
RT: 3.764 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

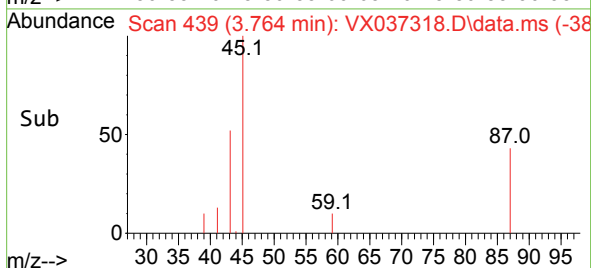
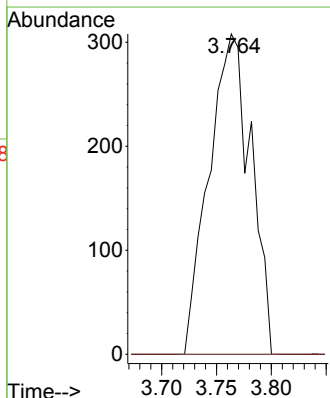
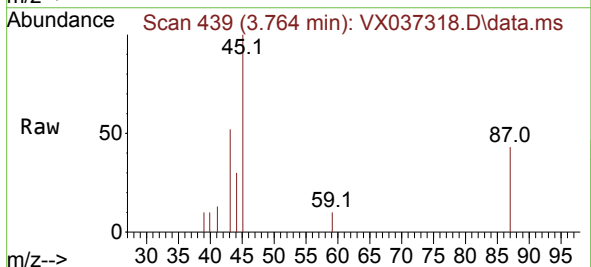


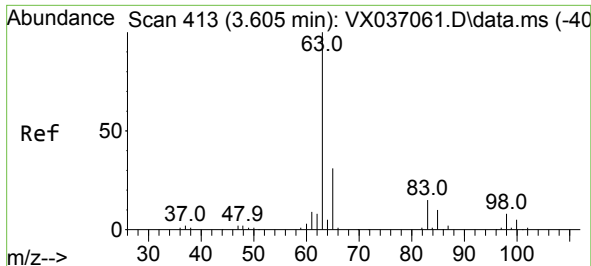
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 1504   |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 51.9  | 69.7  | 104.5# |
| 87       | 42.7  | 20.8  | 31.2#  |
| 59       | 9.8   | 9.0   | 13.4   |



#23  
Vinyl Acetate  
Concen: 0.215 ug/l  
RT: 3.764 min Scan# 439  
Delta R.T. 0.043 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

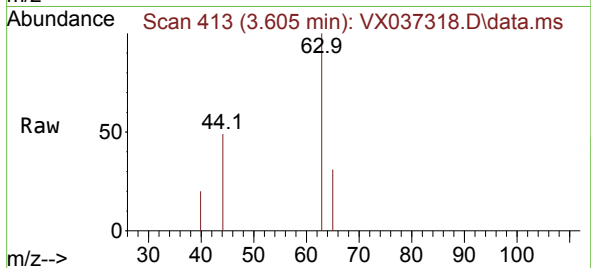
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 821   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 7.8   | 11.8# |



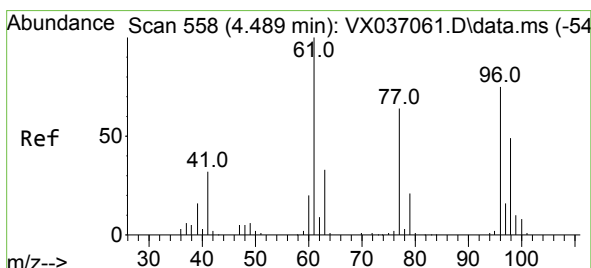
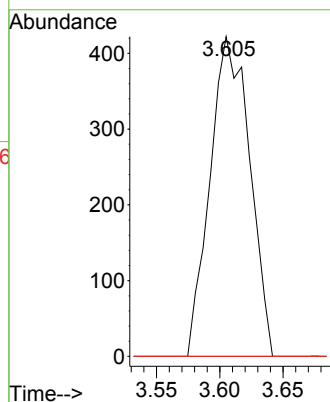
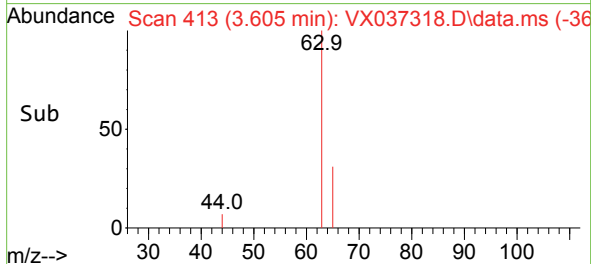


#24  
 1,1-Dichloroethane  
 Concen: 0.295 ug/l  
 RT: 3.605 min Scan# 413  
 Delta R.T. 0.000 min  
 Lab File: VX037318.D  
 Acq: 29 Aug 2023 04:21

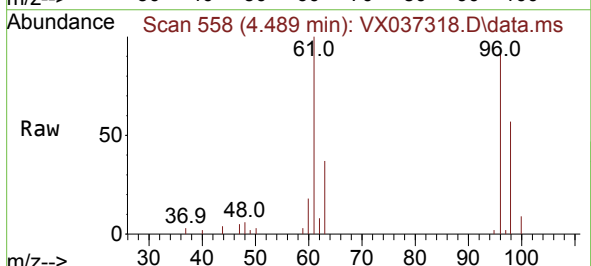
Instrument :  
 MSVOA\_X  
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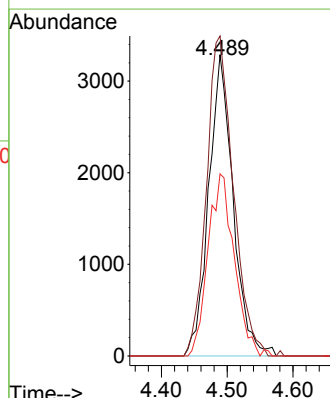
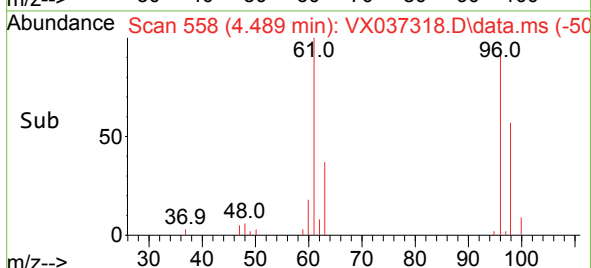
Tgt Ion: 63 Resp: 919  
 Ion Ratio Lower Upper  
 63 100  
 98 0.0 3.3 9.8#  
 100 0.0 2.1 6.5#

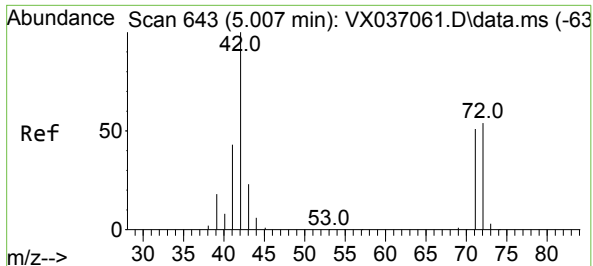


#27  
 cis-1,2-Dichloroethene  
 Concen: 4.045 ug/l  
 RT: 4.489 min Scan# 558  
 Delta R.T. 0.000 min  
 Lab File: VX037318.D  
 Acq: 29 Aug 2023 04:21



Tgt Ion: 96 Resp: 8490  
 Ion Ratio Lower Upper  
 96 100  
 61 116.7 0.0 312.2  
 98 64.5 0.0 129.0





#29

Tetrahydrofuran

Concen: 0.285 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.031 min

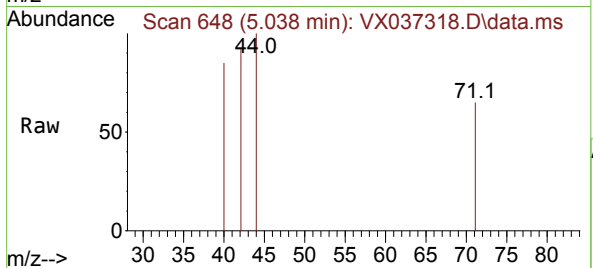
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Acq: 29 Aug 2023 04:21

Instrument :

MSVOA\_X

ClientSampleId :



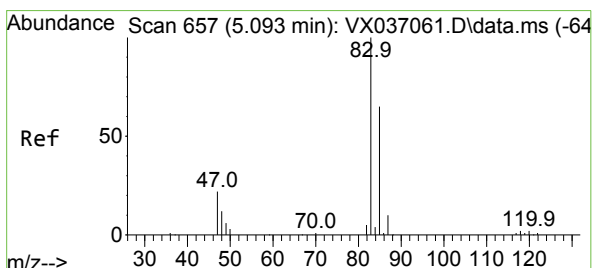
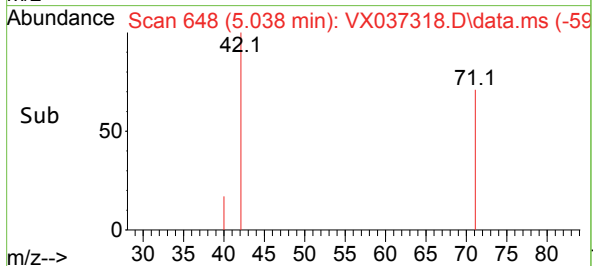
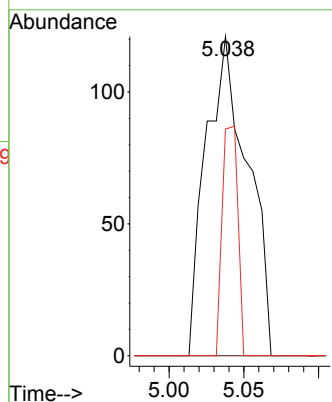
Tgt Ion: 42 Resp: 235

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 26.8 32.2 48.2#



#30

Chloroform

Concen: 0.315 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.006 min

Lab File: VX037318.D

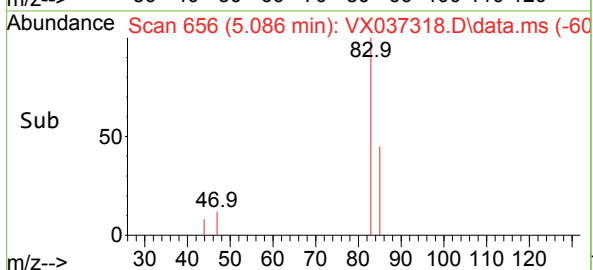
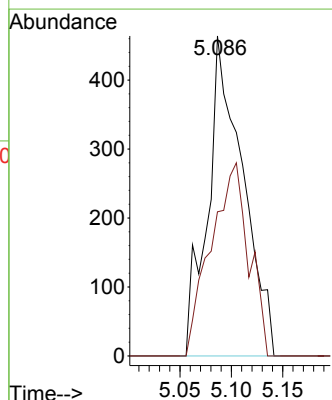
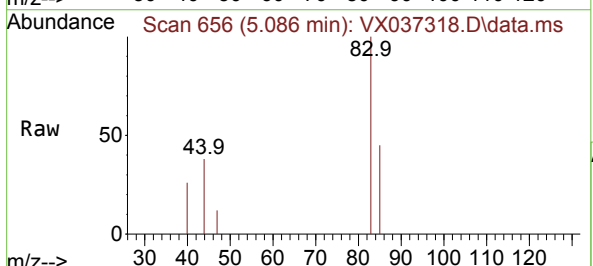
Acq: 29 Aug 2023 04:21

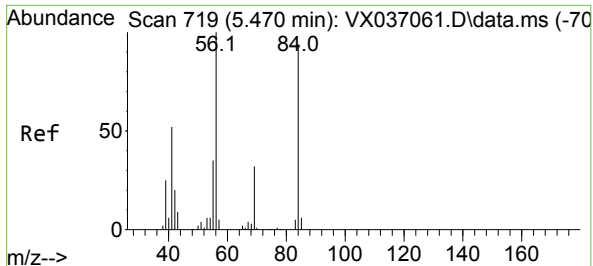
Tgt Ion: 83 Resp: 1103

Ion Ratio Lower Upper

83 100

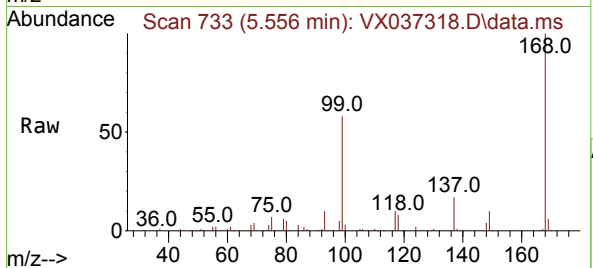
85 45.0 50.3 75.5#



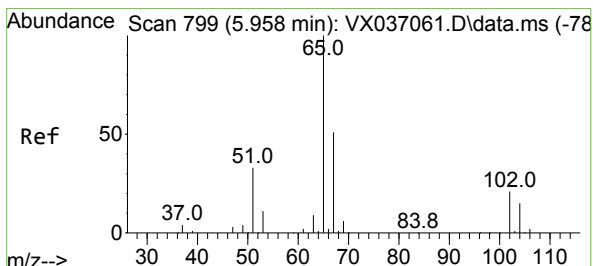
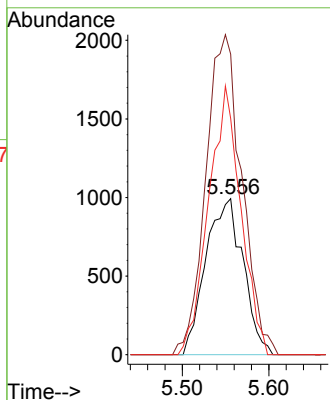
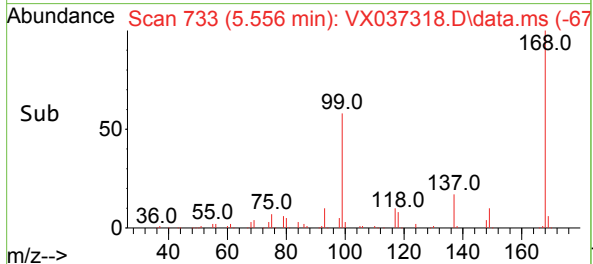


#31  
Cyclohexane  
Concen: 1.205 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

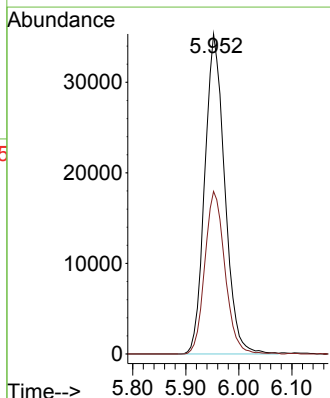
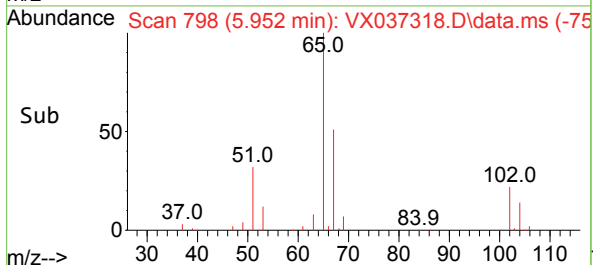
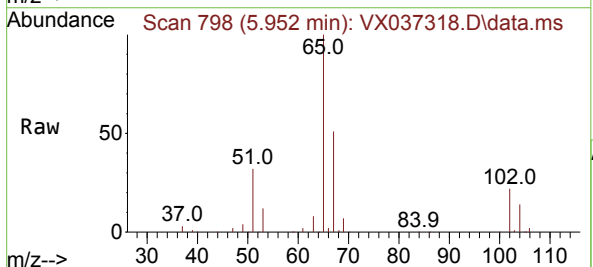


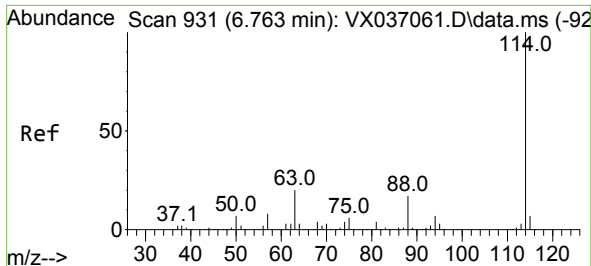
Tgt Ion: 56 Resp: 2972  
Ion Ratio Lower Upper  
56 100  
69 192.5 23.4 35.2#  
84 151.4 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 42.149 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Tgt Ion: 65 Resp: 92455  
Ion Ratio Lower Upper  
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67 51.2 0.0 100.2

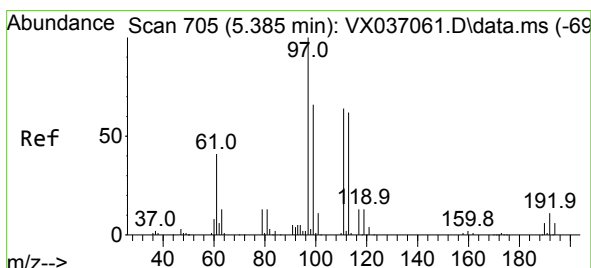
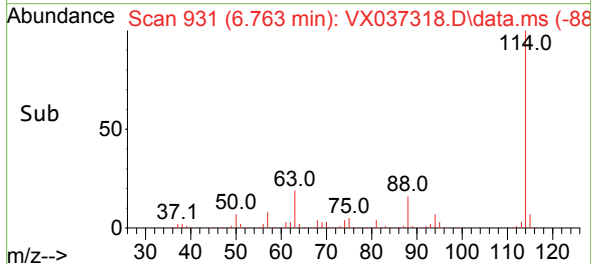
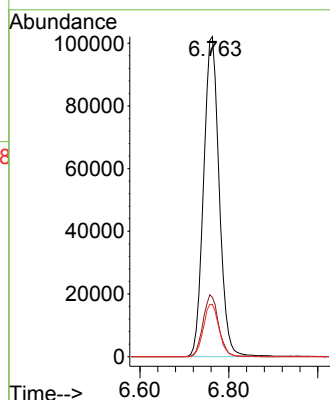
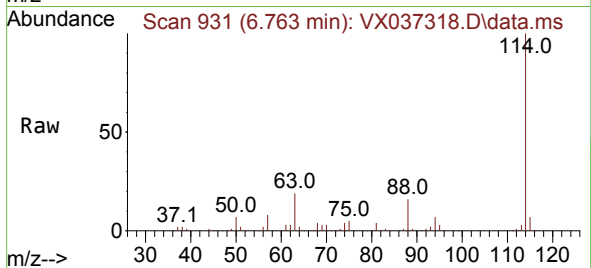




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

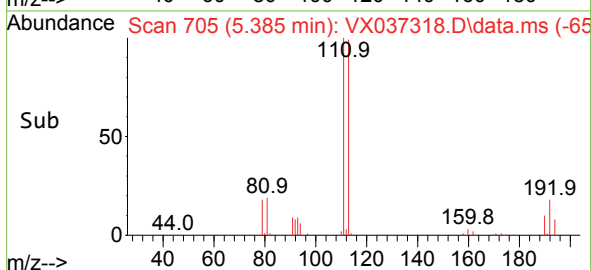
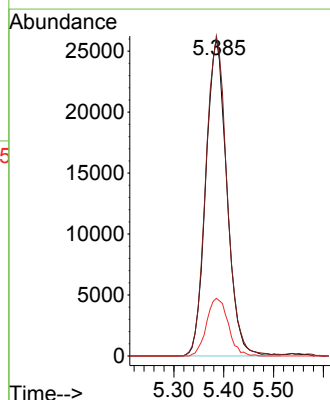
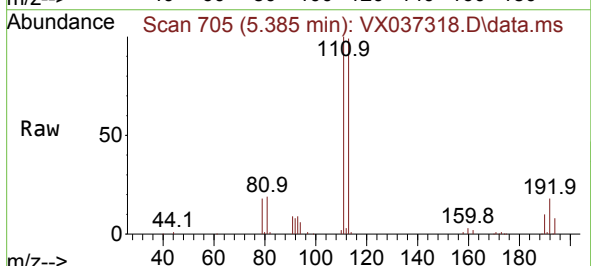
Instrument :  
MSVOA\_X  
ClientSampleId :

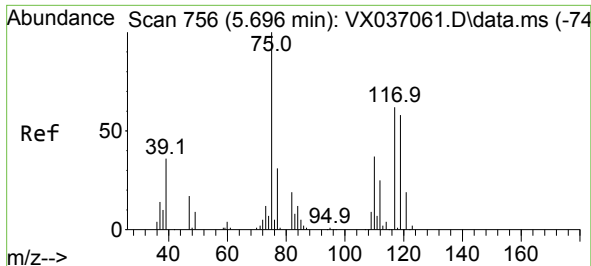
Tgt Ion:114 Resp: 249525  
Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 45.0  
88 16.4 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 45.959 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Tgt Ion:113 Resp: 75949  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.9 124.3  
192 18.8 13.3 19.9

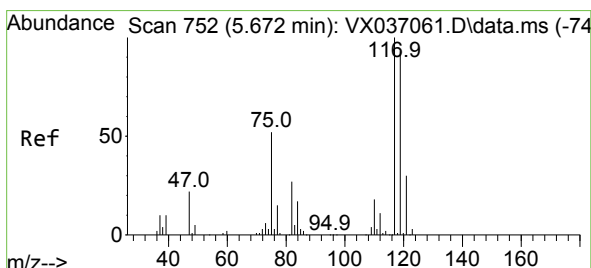
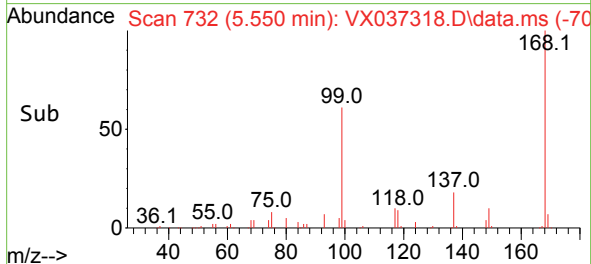
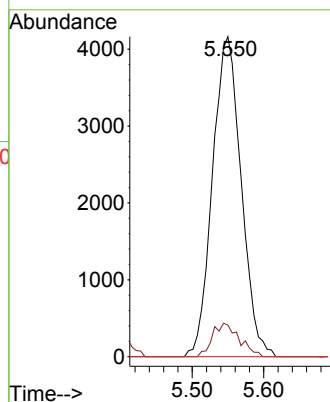
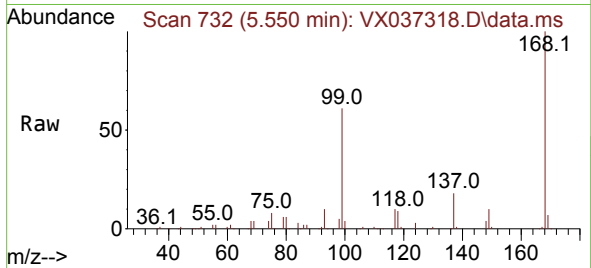




#36  
1,1-Dichloropropene  
Concen: 4.934 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

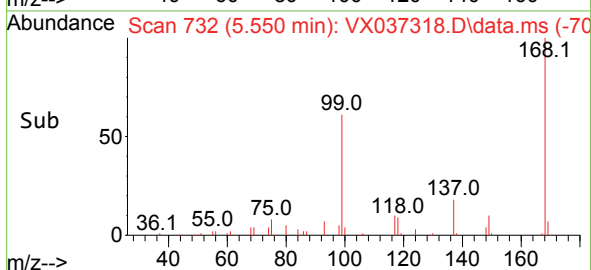
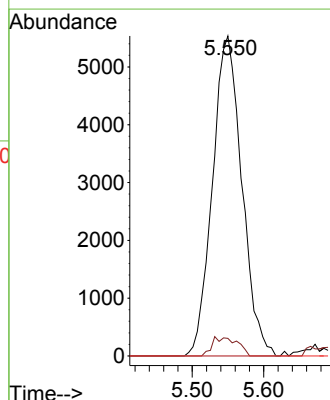
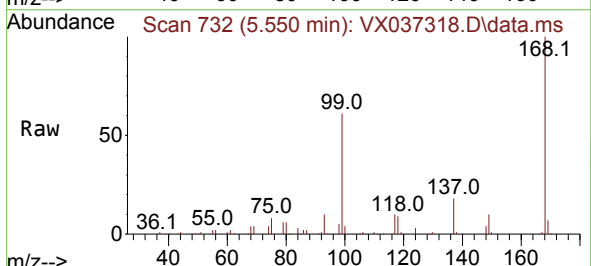
Instrument :  
MSVOA\_X  
ClientSampleId :

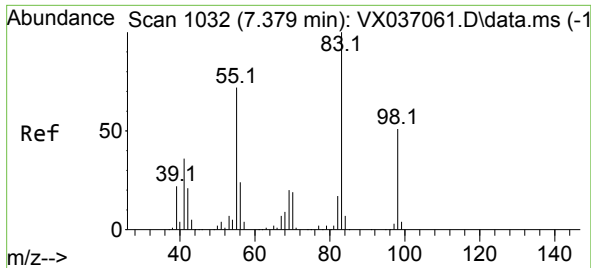
Tgt Ion: 75 Resp: 11585  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.193 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

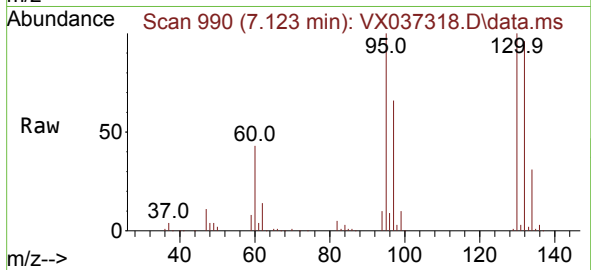
Tgt Ion: 117 Resp: 15794  
Ion Ratio Lower Upper  
117 100  
119 5.5 78.2 117.2#  
121 0.0 24.4 36.6#



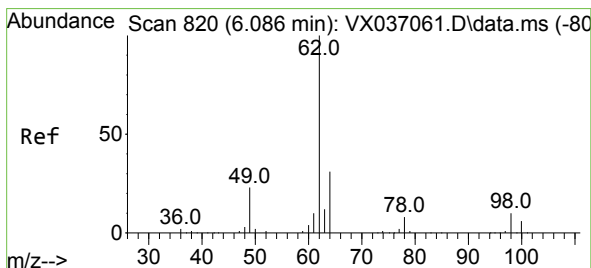
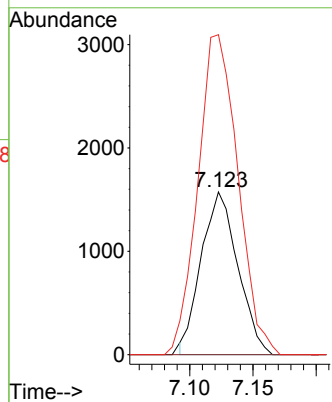
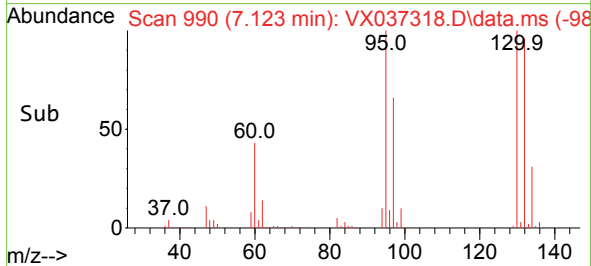


#39  
Methylcyclohexane  
Concen: 1.283 ug/l  
RT: 7.123 min Scan# 99  
Delta R.T. -0.256 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

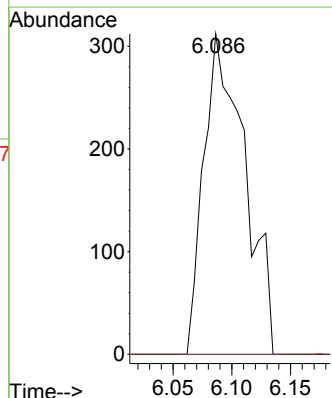
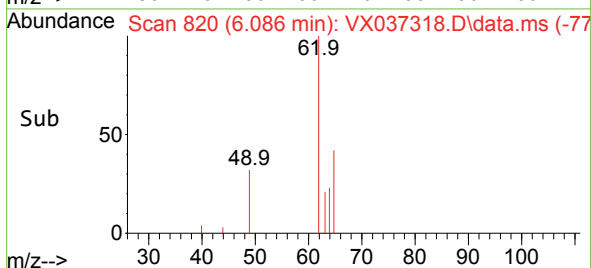
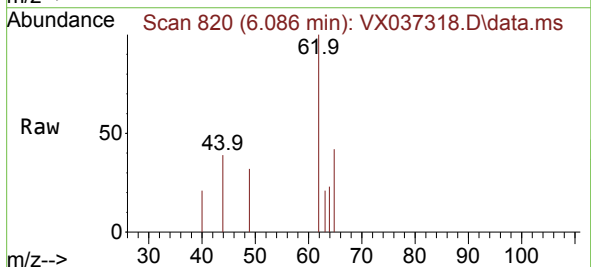


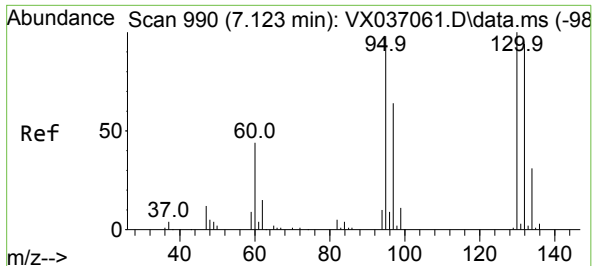
Tgt Ion: 83 Resp: 3166  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.6 97.0#  
98 196.7 36.7 55.1#



#42  
1,2-Dichloroethane  
Concen: 0.287 ug/l  
RT: 6.086 min Scan# 820  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Tgt Ion: 62 Resp: 758  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 16.0

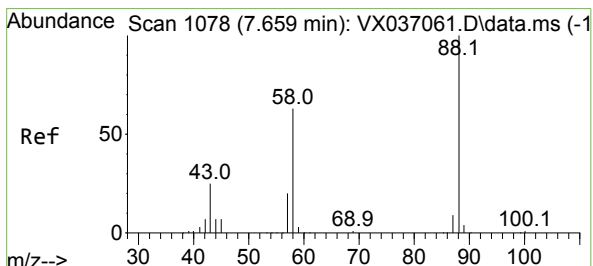
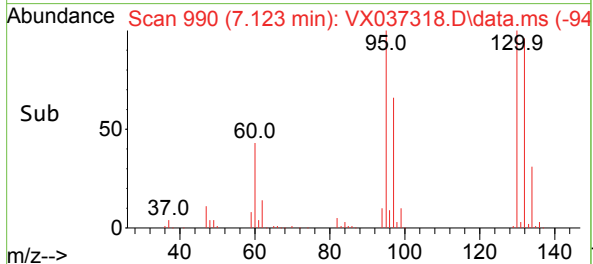
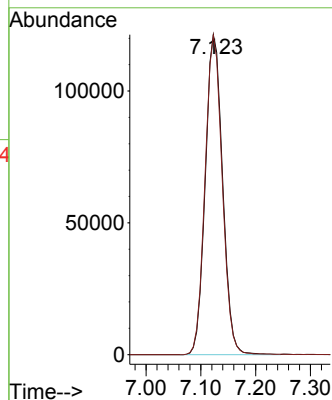
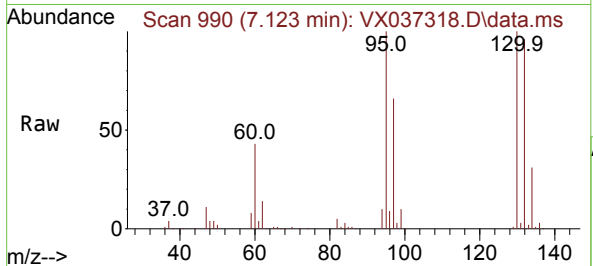




#44  
Trichloroethene  
Concen: 139.089 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

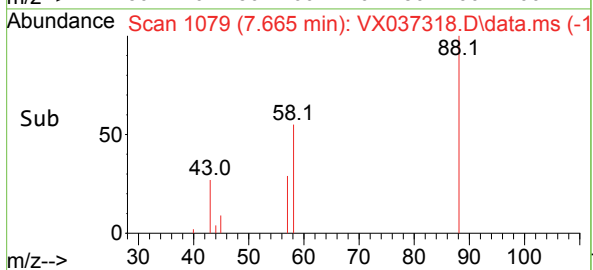
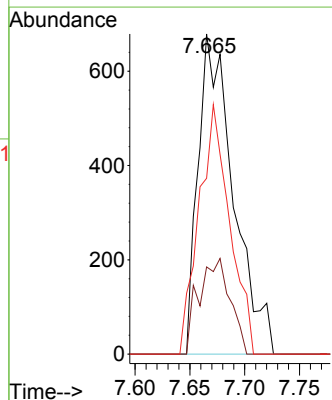
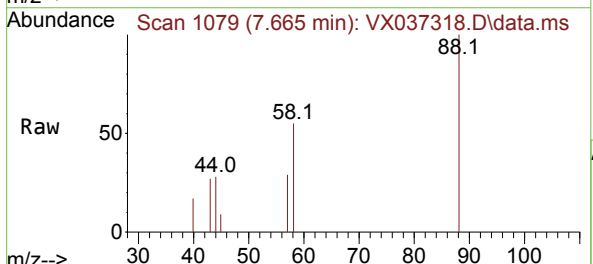
Instrument :  
MSVOA\_X  
ClientSampleId :

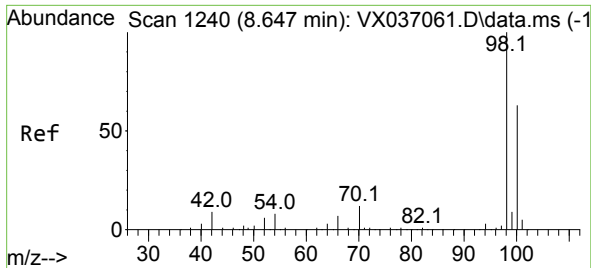
Tgt Ion:130 Resp: 265568  
Ion Ratio Lower Upper  
130 100  
95 99.8 0.0 204.4



#49  
1,4-Dioxane  
Concen: 30.414 ug/l  
RT: 7.665 min Scan# 1079  
Delta R.T. 0.006 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Tgt Ion: 88 Resp: 1521  
Ion Ratio Lower Upper  
88 100  
43 26.5 0.0 0.0#  
58 67.9 60.1 90.1

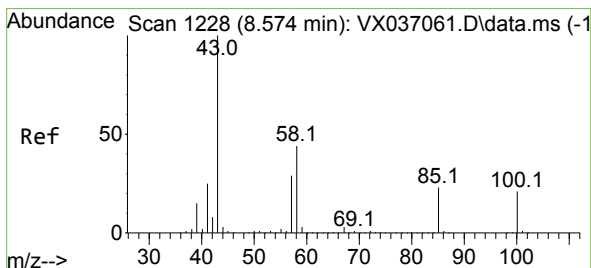
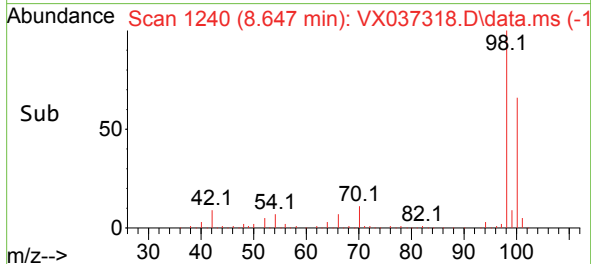
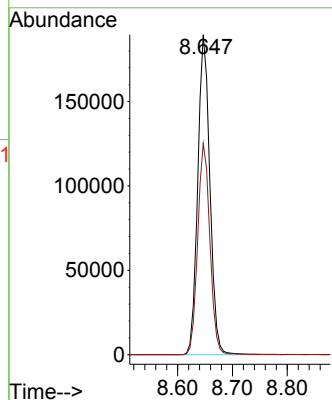
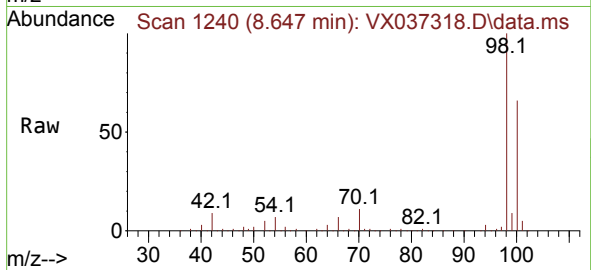




#50  
Toluene-d8  
Concen: 48.758 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

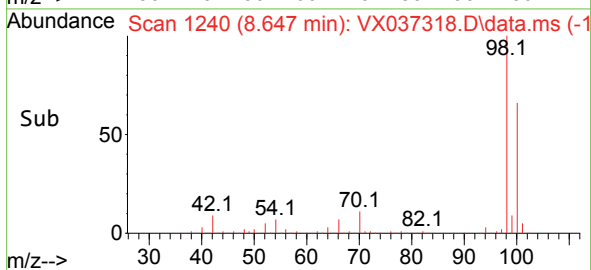
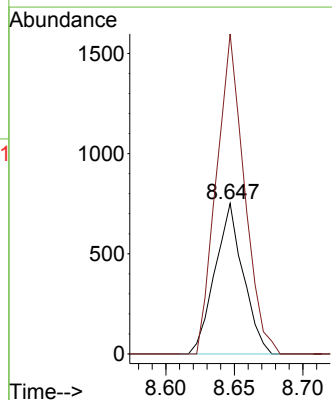
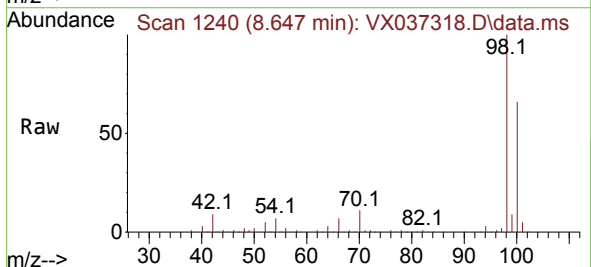
Instrument :  
MSVOA\_X  
ClientSampleId :

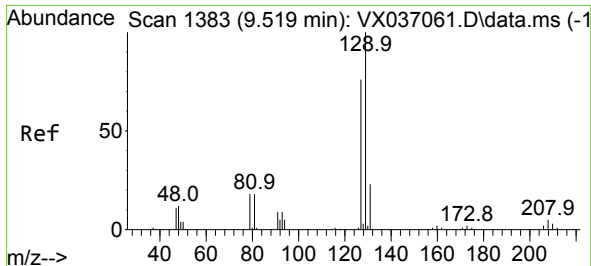
Tgt Ion: 98 Resp: 292275  
Ion Ratio Lower Upper  
98 100  
100 66.4 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.468 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

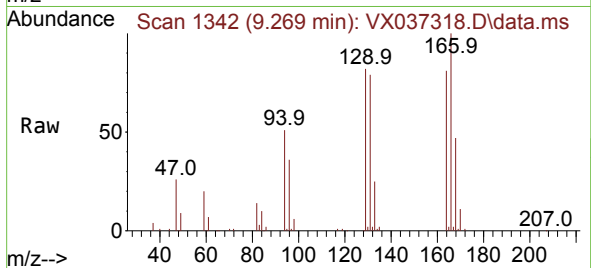
Tgt Ion: 43 Resp: 1081  
Ion Ratio Lower Upper  
43 100  
58 209.0 30.4 45.6#



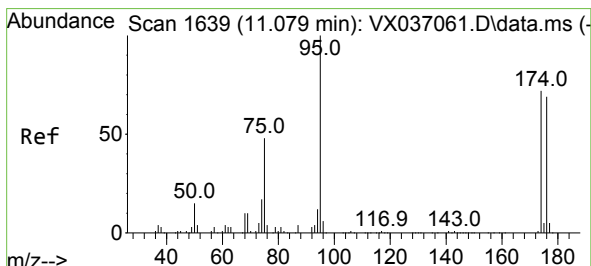
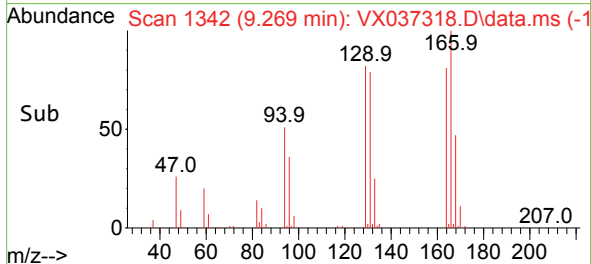
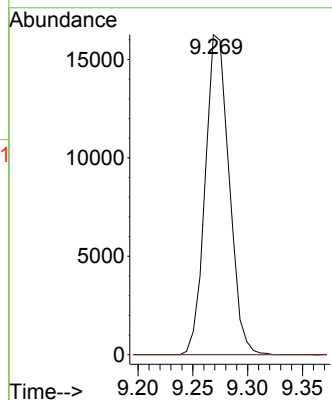


#60  
Dibromochloromethane  
Concen: 12.801 ug/l  
RT: 9.269 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

Instrument :  
MSVOA\_X  
ClientSampleId :

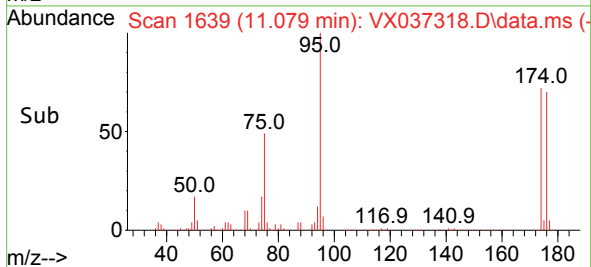
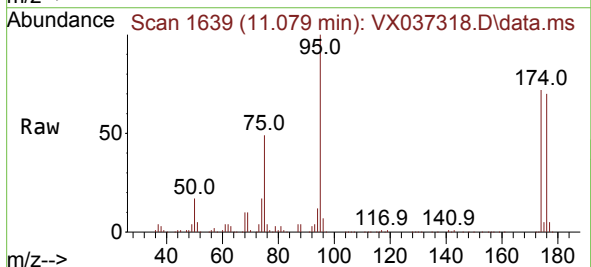
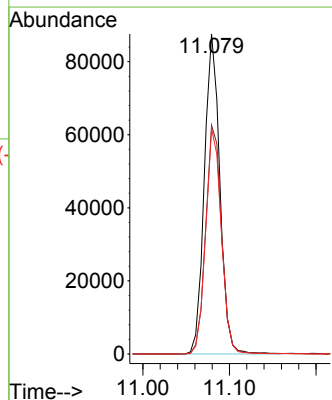


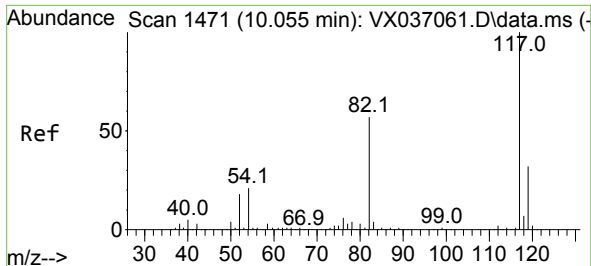
Tgt Ion:129 Resp: 24690  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 46.112 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

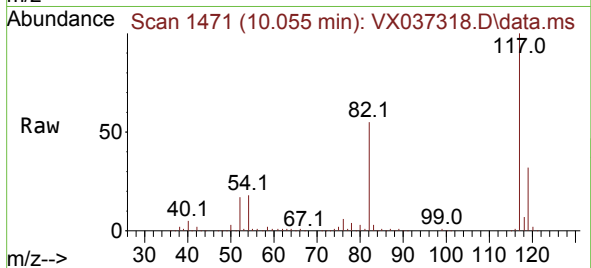
Tgt Ion: 95 Resp: 108627  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 135.6  
176 71.2 0.0 131.0



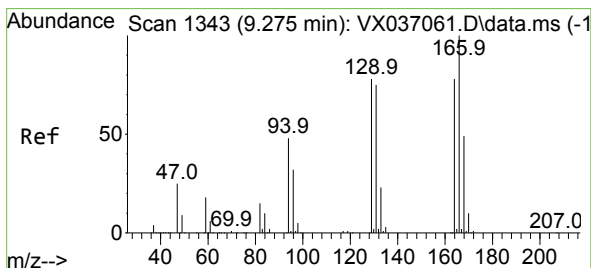
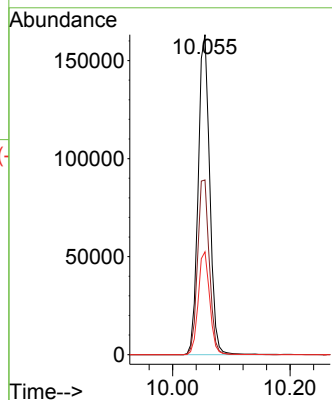
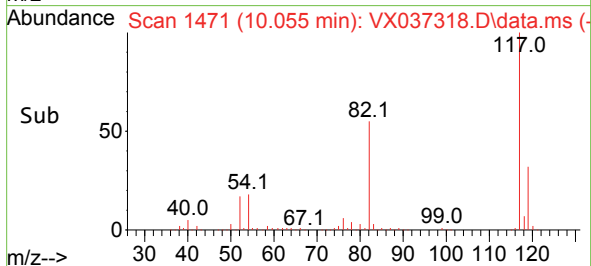


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21

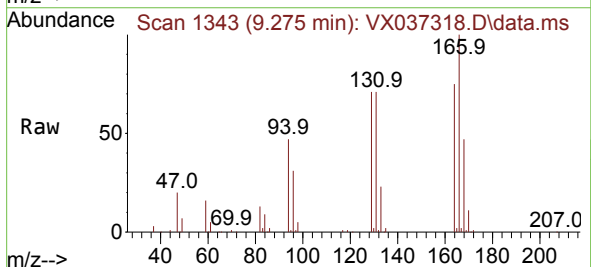
Instrument :  
MSVOA\_X  
ClientSampleId :



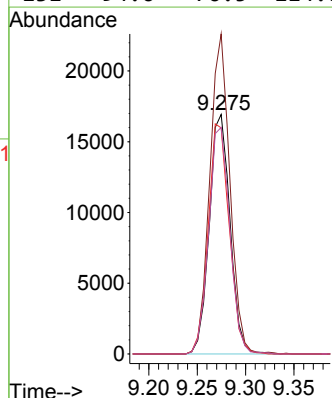
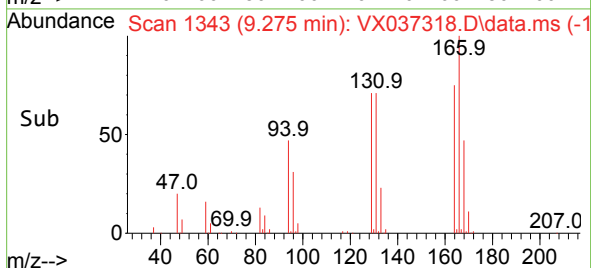
Tgt Ion:117 Resp: 222105  
Ion Ratio Lower Upper  
117 100  
82 54.6 46.2 69.4  
119 32.2 25.5 38.3

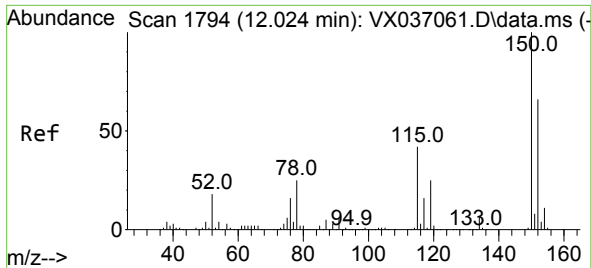


#64  
Tetrachloroethene  
Concen: 15.576 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.000 min  
Lab File: VX037318.D  
Acq: 29 Aug 2023 04:21



Tgt Ion:164 Resp: 25237  
Ion Ratio Lower Upper  
164 100  
166 133.6 102.7 154.1  
129 94.4 80.4 120.6  
131 94.6 76.5 114.7

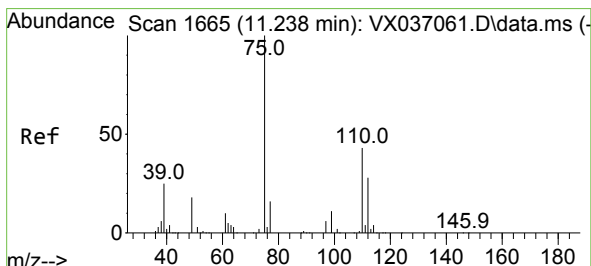
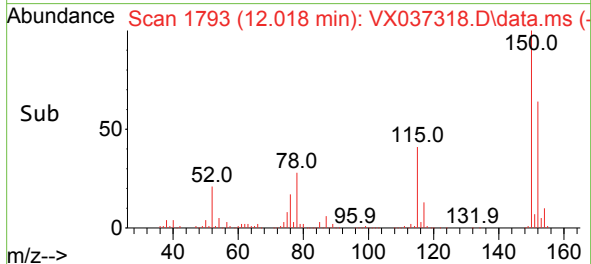
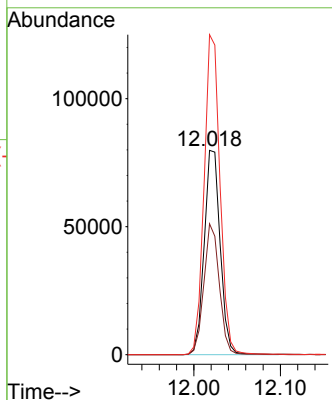
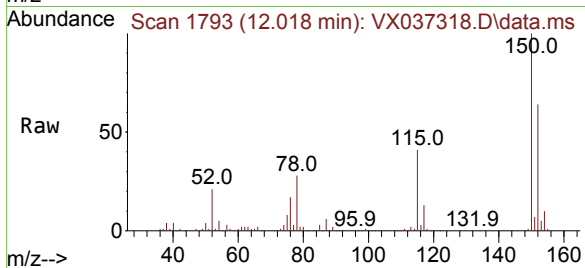




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.018 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: VX037318.D  
 Acq: 29 Aug 2023 04:21

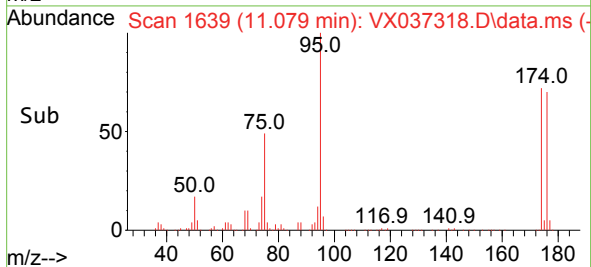
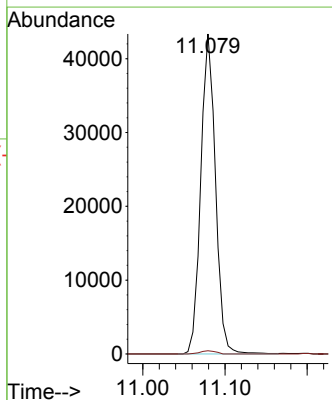
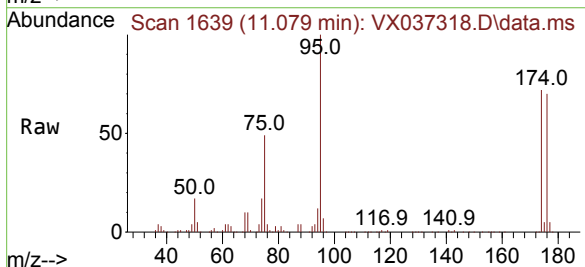
Instrument :  
 MSVOA\_X  
 ClientSampleId :

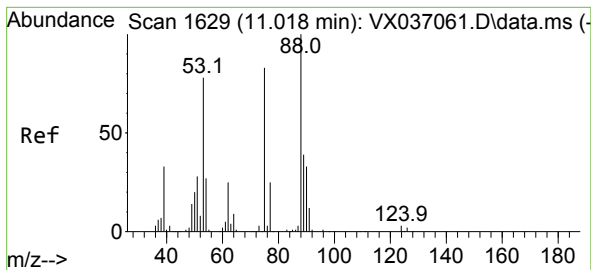
Tgt Ion:152 Resp: 102394  
 Ion Ratio Lower Upper  
 152 100  
 115 62.1 43.3 129.9  
 150 156.0 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 24.658 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX037318.D  
 Acq: 29 Aug 2023 04:21

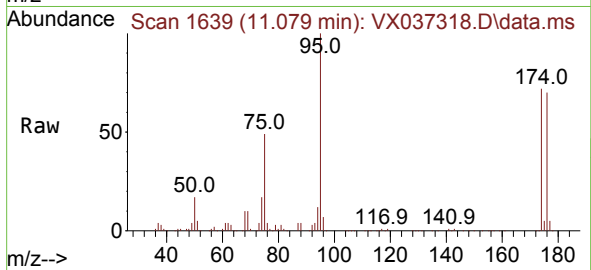
Tgt Ion: 75 Resp: 53770  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.870 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX037318.D  
 Acq: 29 Aug 2023 04:21

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 53770  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

