

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011224\  
 Data File : VX039742.D  
 Acq On : 12 Jan 2024 17:08  
 Operator : JC/MD  
 Sample : P1118-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jan 12 22:41:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 03:51:26 2024  
 Response via : Initial Calibration

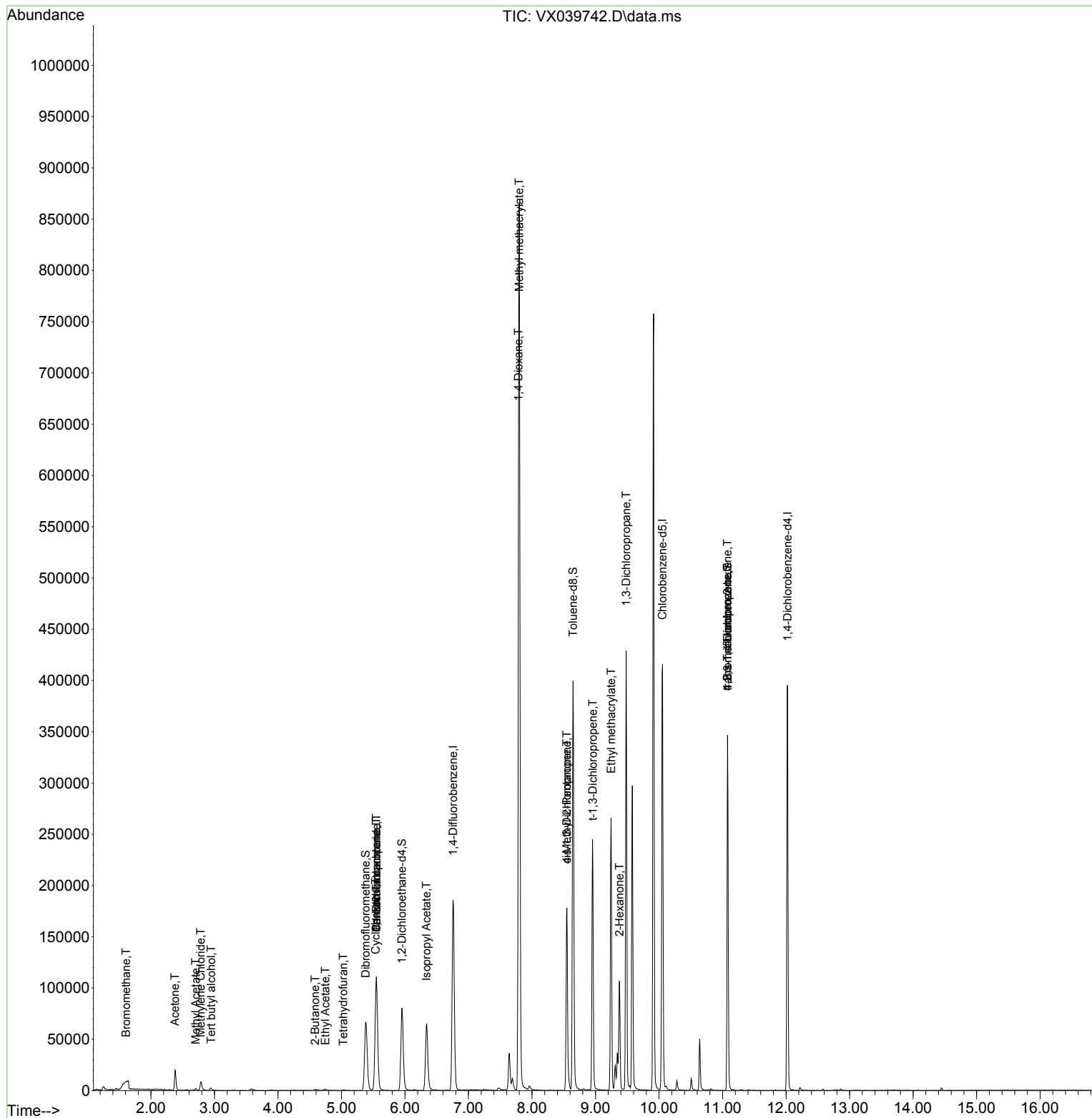
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 98606    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 186075   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 182994   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 78715    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 75550    | 45.738   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 91.480%  |
| 35) Dibromofluoromethane      | 5.379  | 113   | 59320    | 47.331   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 94.660%  |
| 50) Toluene-d8                | 8.647  | 98    | 230741   | 48.815   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.620%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 90038    | 48.710   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 97.420%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.605  | 94    | 247      | 0.315    | ug/l   | 94       |
| 11) Tert butyl alcohol        | 2.947  | 59    | 1901     | 4.421    | ug/l # | 78       |
| 16) Acetone                   | 2.380  | 43    | 20100    | 21.637   | ug/l   | 90       |
| 18) Methyl Acetate            | 2.703  | 43    | 2214     | 1.139    | ug/l   | 95       |
| 20) Methylene Chloride        | 2.782  | 84    | 4340     | 3.089    | ug/l # | 89       |
| 25) 2-Butanone                | 4.587  | 43    | 1587     | 1.189    | ug/l # | 82       |
| 29) Tetrahydrofuran           | 5.026  | 42    | 345      | 0.402    | ug/l # | 34       |
| 31) Cyclohexane               | 5.538  | 56    | 2431     | 1.115    | ug/l # | 28       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 9128     | 4.679    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.745  | 43    | 2092     | 0.804    | ug/l # | 85       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 10867    | 6.082    | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 91644    | 24.005   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.799  | 41    | 78361    | 41.757   | ug/l # | 49       |
| 49) 1,4-Dioxane               | 7.787  | 88    | 49       | 1.349    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 66353    | 25.235   | ug/l # | 51       |
| 53) t-1,3-Dichloropropene     | 8.958  | 75    | 561      | 0.279    | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 28321    | 12.805   | ug/l # | 59       |
| 56) Ethyl methacrylate        | 9.244  | 69    | 637      | 0.280    | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 3525     | 1.481    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378  | 43    | 82001    | 39.405   | ug/l # | 26       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 49313    | 24.164   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 49313    | 69.385   | ug/l # | 5        |

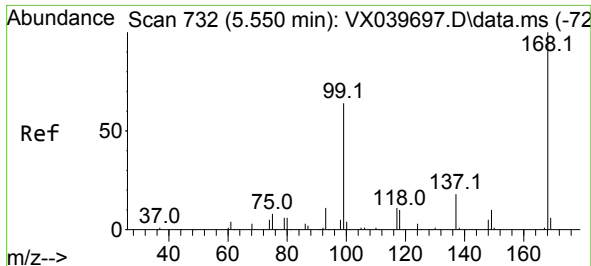
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011224\  
Data File : VX039742.D  
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Sample : P1118-04  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

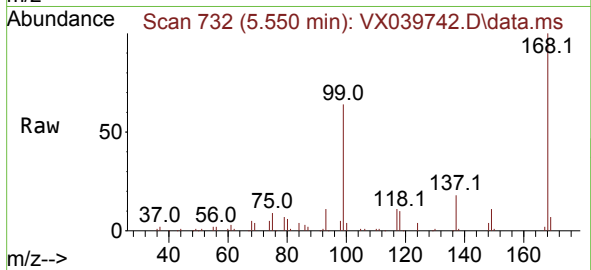
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Quant Title : SW846 8260  
QLast Update : Thu Jan 11 03:51:26 2024  
Response via : Initial Calibration



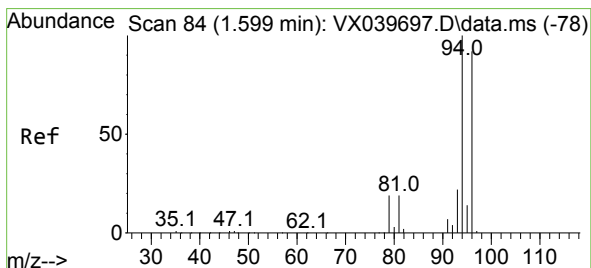
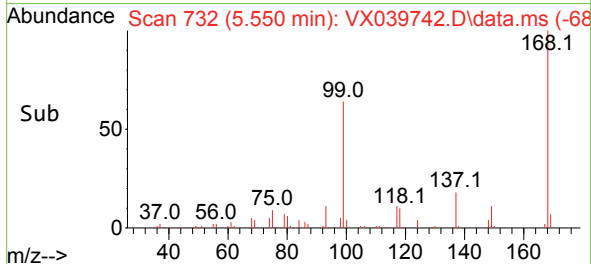
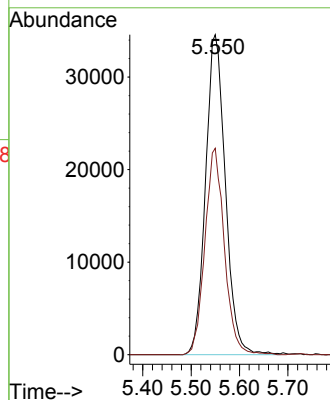


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Instrument :  
MSVOA\_X  
ClientSampleId :

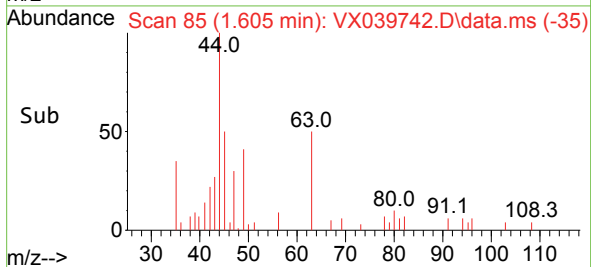
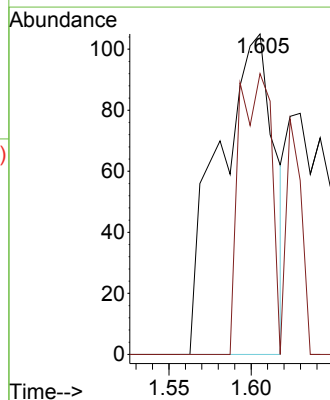
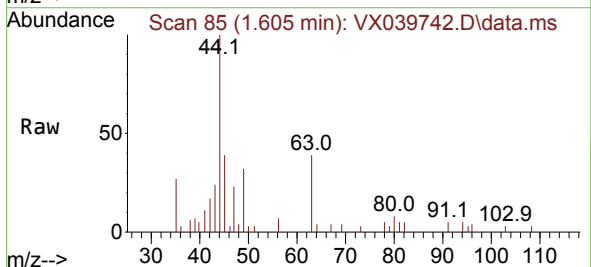


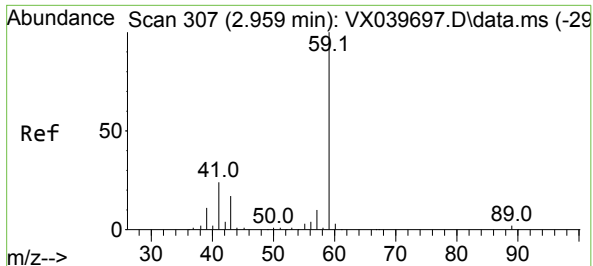
Tgt Ion:168 Resp: 98606  
Ion Ratio Lower Upper  
168 100  
99 64.5 56.6 85.0



#5  
Bromomethane  
Concen: 0.315 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion: 94 Resp: 247  
Ion Ratio Lower Upper  
94 100  
96 87.6 74.6 111.8





#11

Tert butyl alcohol

Concen: 4.421 ug/l

RT: 2.947 min Scan# 307

Delta R.T. -0.012 min

Lab File: VX039742.D

Acq: 12 Jan 2024 17:08

Instrument :

MSVOA\_X

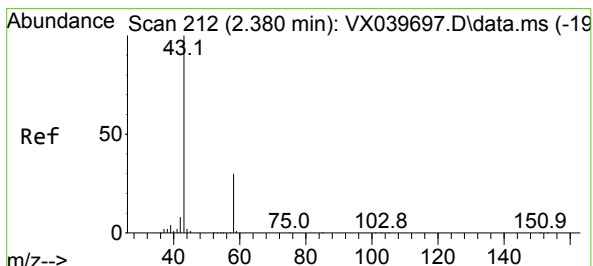
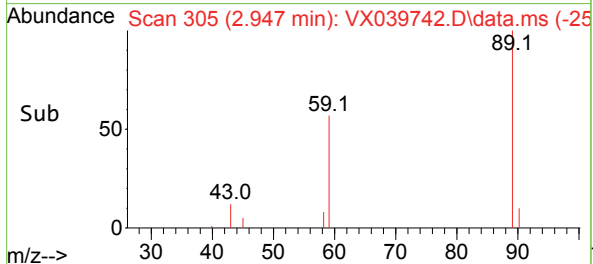
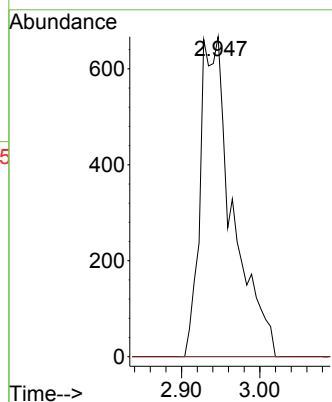
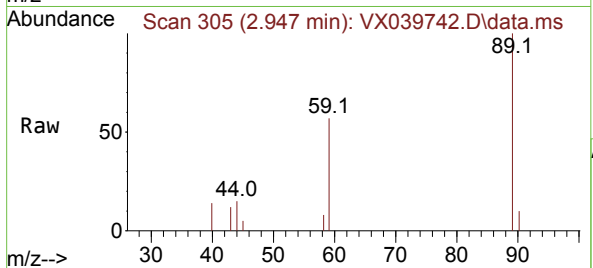
ClientSampleId :

Tgt Ion: 59 Resp: 1901

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 21.637 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX039742.D

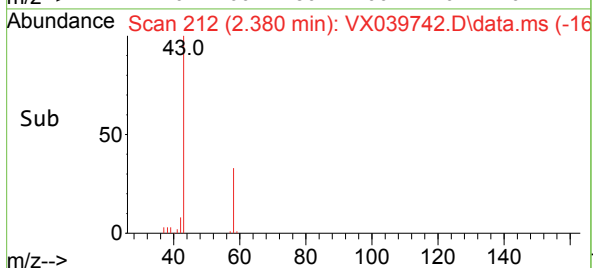
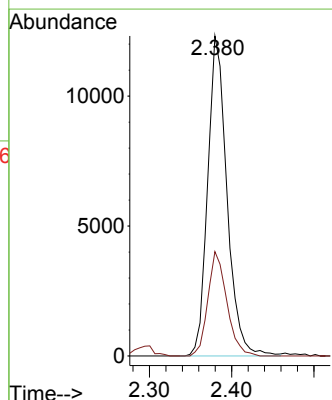
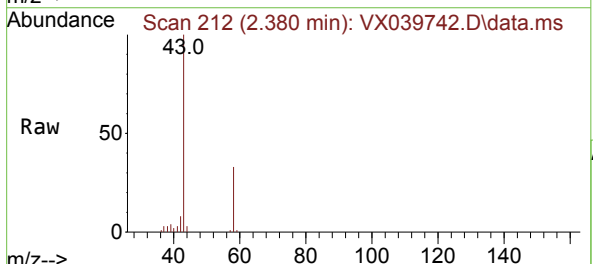
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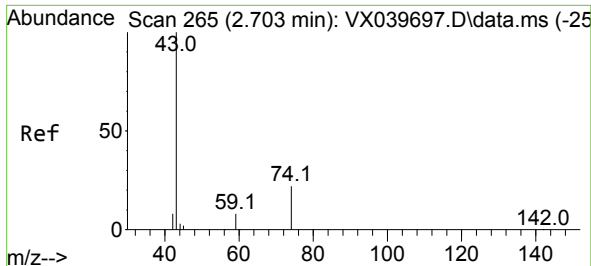
Tgt Ion: 43 Resp: 20100

Ion Ratio Lower Upper

43 100

58 32.6 21.9 32.9

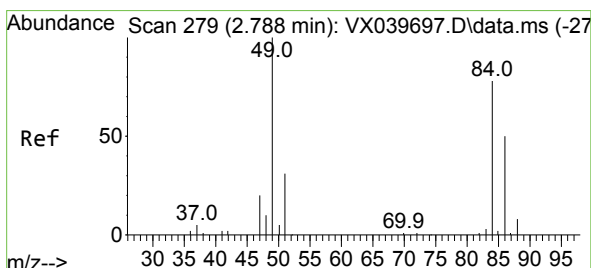
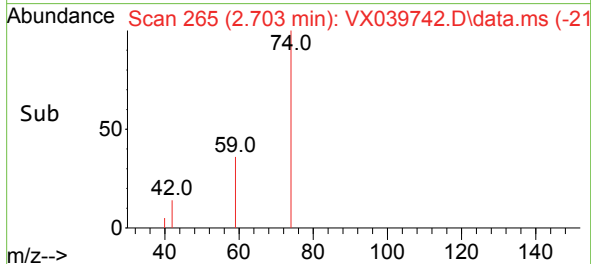
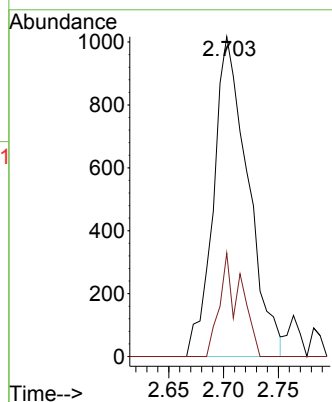
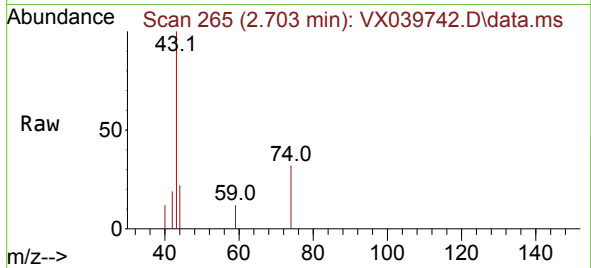




#18  
Methyl Acetate  
Concen: 1.139 ug/l  
RT: 2.703 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

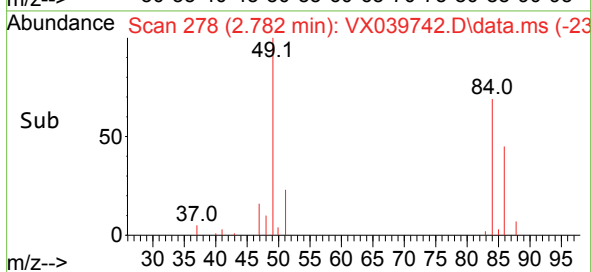
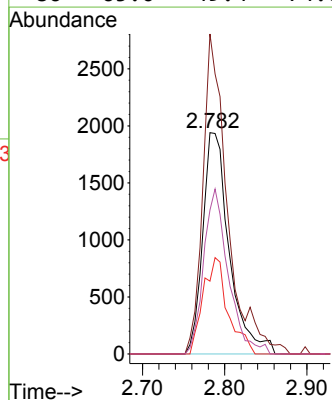
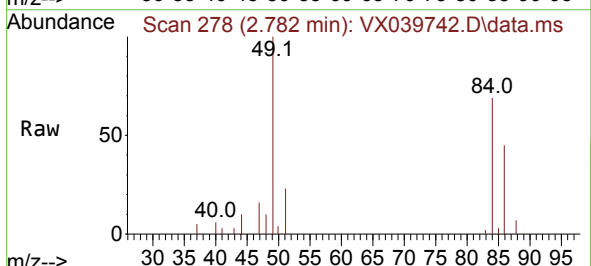
Instrument :  
MSVOA\_X  
ClientSampleId :

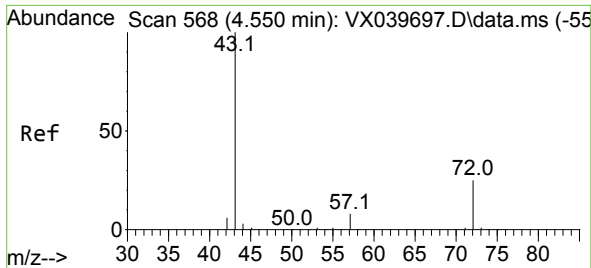
Tgt Ion: 43 Resp: 2214  
Ion Ratio Lower Upper  
43 100  
74 20.1 17.8 26.8



#20  
Methylene Chloride  
Concen: 3.089 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.006 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion: 84 Resp: 4340  
Ion Ratio Lower Upper  
84 100  
49 144.6 103.6 155.4  
51 32.9 33.8 50.6#  
86 65.0 49.4 74.0

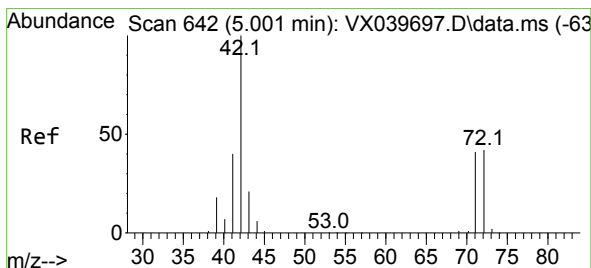
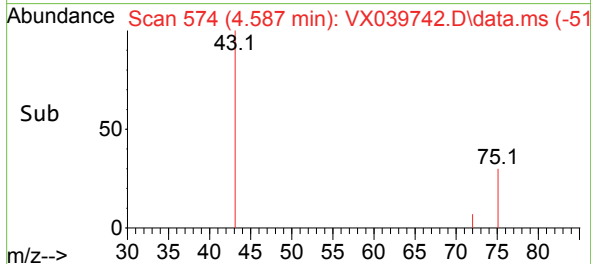
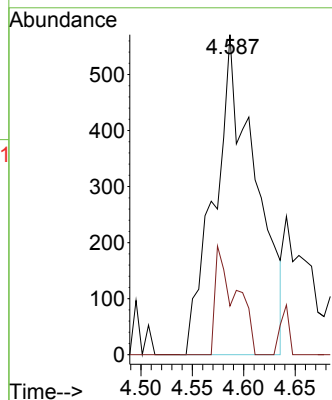
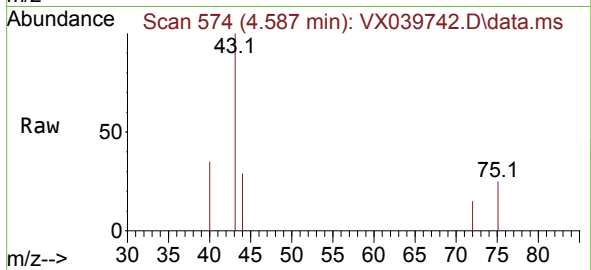




#25  
2-Butanone  
Concen: 1.189 ug/l  
RT: 4.587 min Scan# 51  
Delta R.T. 0.037 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

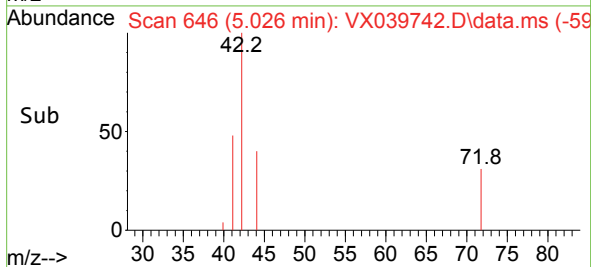
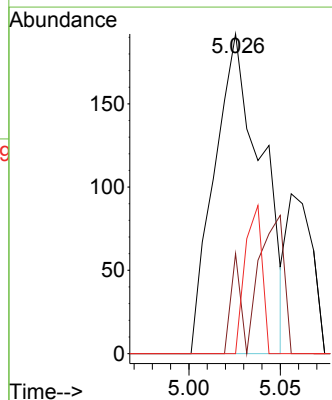
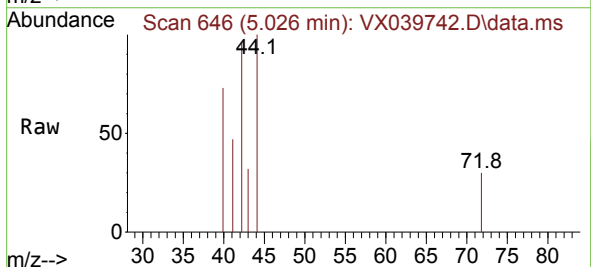
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MSVOA\_X  
ClientSampleId :

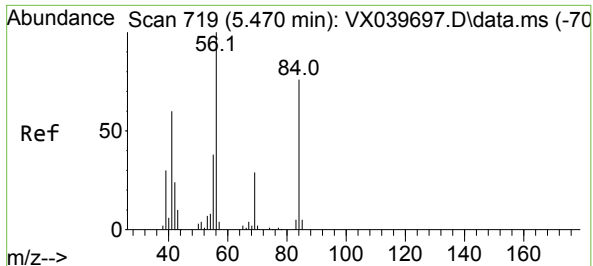
Tgt Ion: 43 Resp: 1587  
Ion Ratio Lower Upper  
43 100  
72 15.2 19.4 29.2#



#29  
Tetrahydrofuran  
Concen: 0.402 ug/l  
RT: 5.026 min Scan# 646  
Delta R.T. 0.024 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

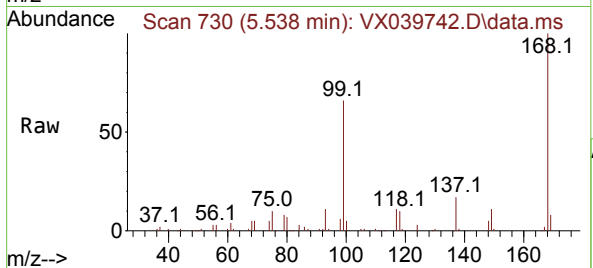
Tgt Ion: 42 Resp: 345  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 0.0 32.2 48.2#



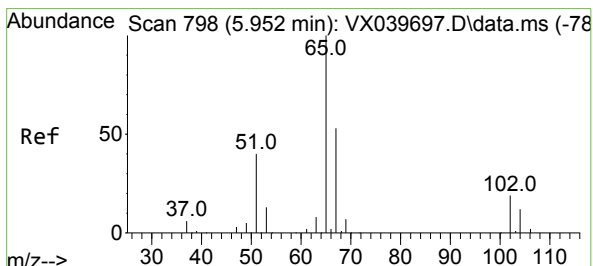
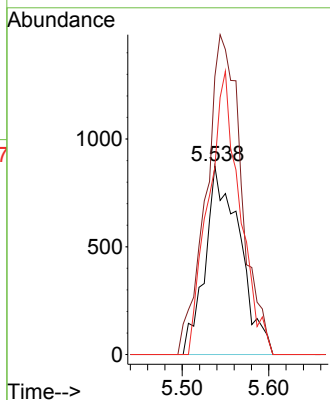
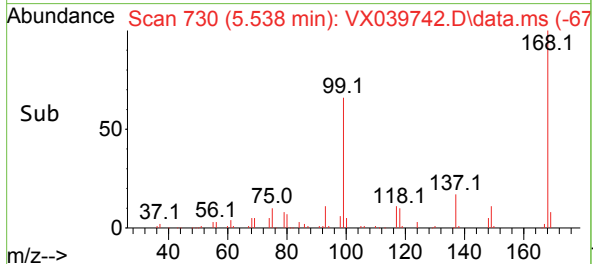


#31  
Cyclohexane  
Concen: 1.115 ug/l  
RT: 5.538 min Scan# 719  
Delta R.T. 0.067 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Instrument :  
MSVOA\_X  
ClientSampleId :

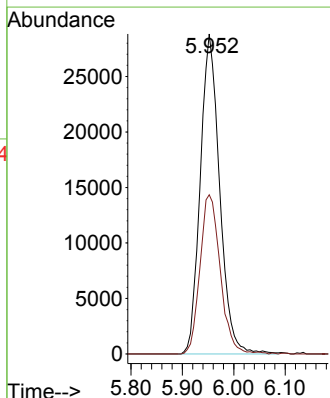
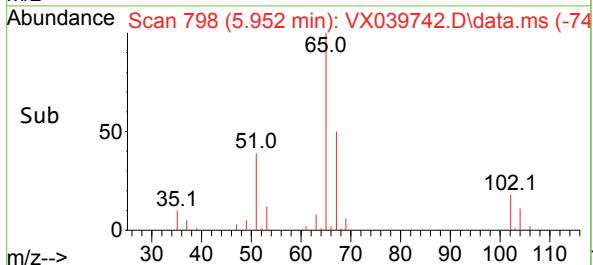
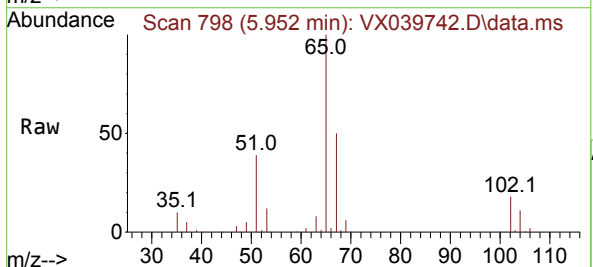


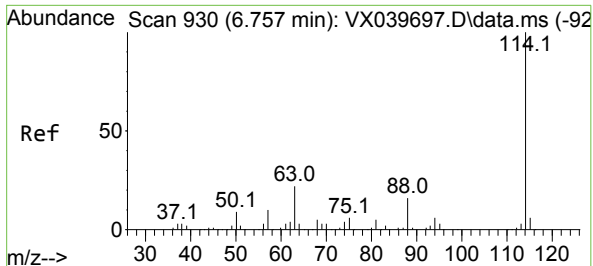
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Ion Ratio Lower Upper  
56 100  
69 147.3 23.4 35.2#  
84 99.2 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 45.738 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion: 65 Resp: 75550  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 100.2

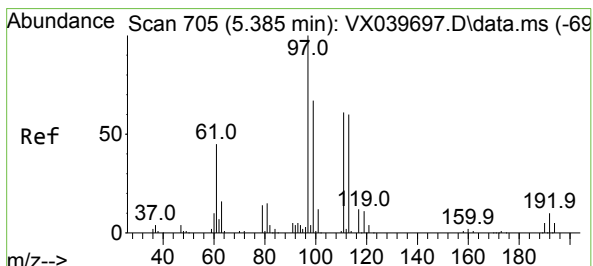
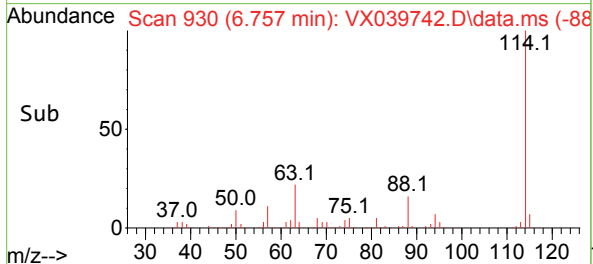
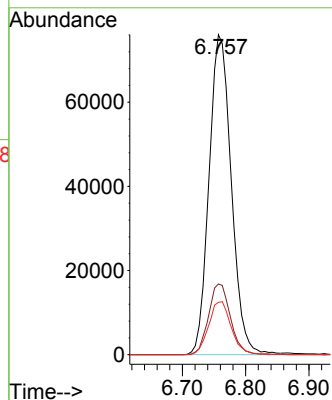
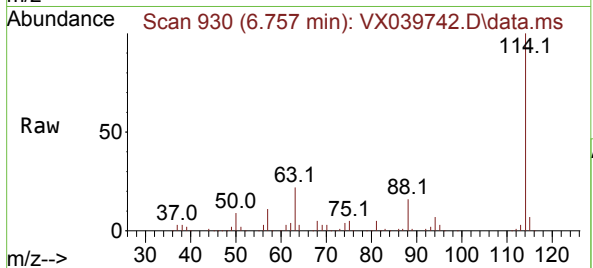




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

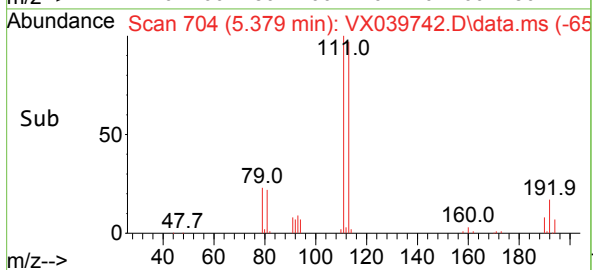
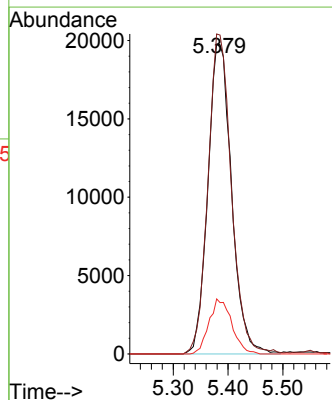
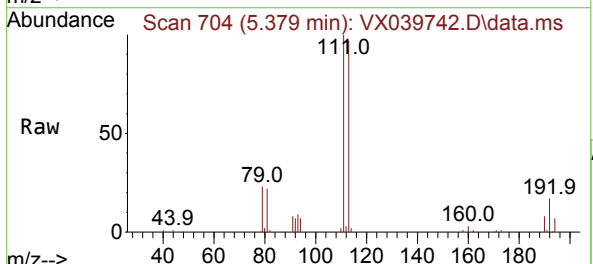
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:114 Resp: 186075  
Ion Ratio Lower Upper  
114 100  
63 22.1 0.0 45.0  
88 16.4 0.0 36.6

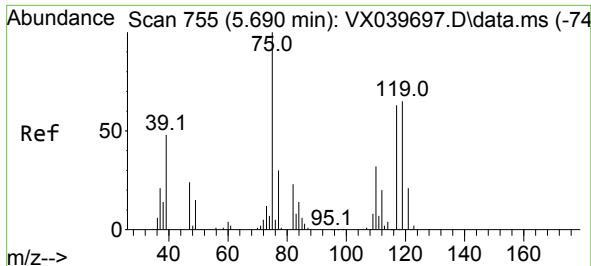


#35  
Dibromofluoromethane  
Concen: 47.331 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.006 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion:113 Resp: 59320  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.9 124.3  
192 17.1 13.3 19.9

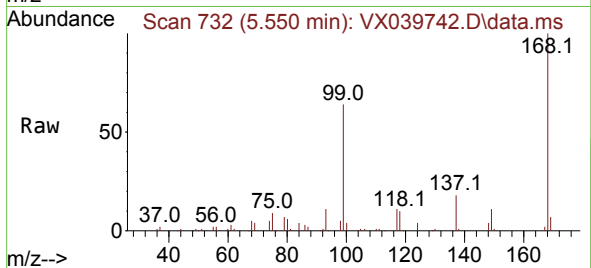




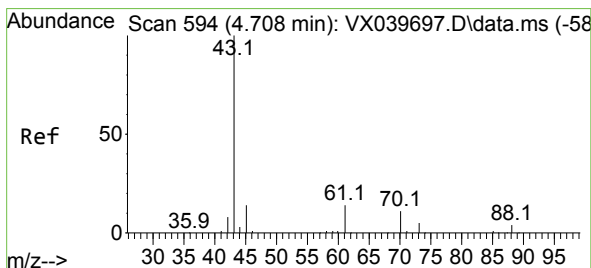
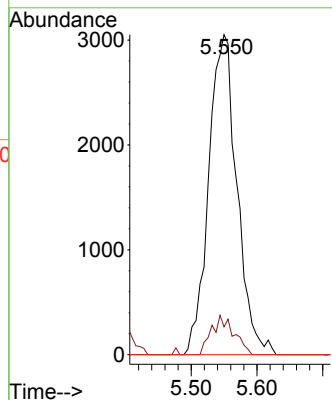
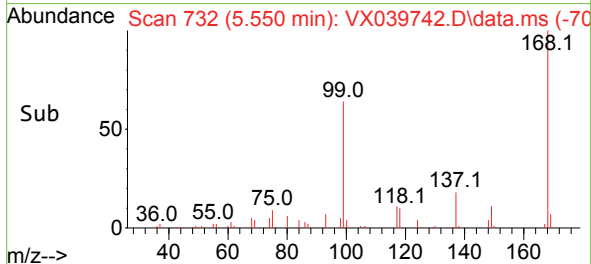


#36  
1,1-Dichloropropene  
Concen: 4.679 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Instrument :  
MSVOA\_X  
ClientSampleId :

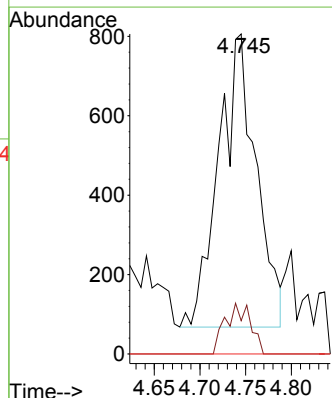
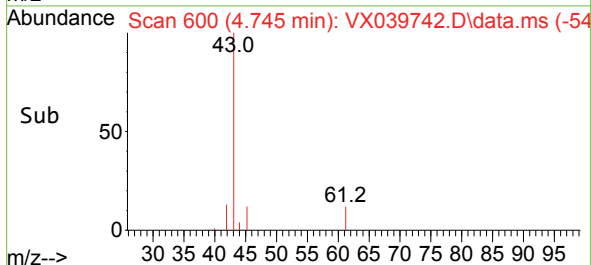
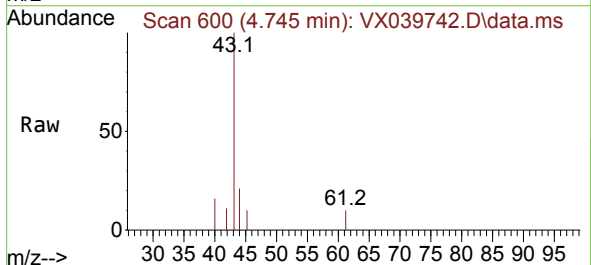


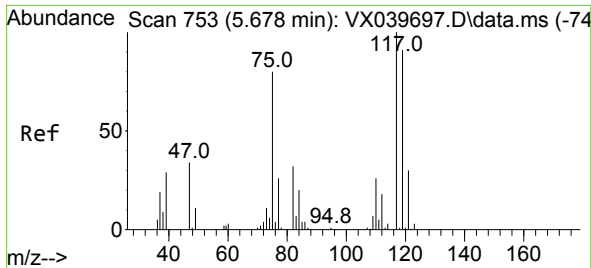
Tgt Ion: 75 Resp: 9128  
Ion Ratio Lower Upper  
75 100  
110 9.7 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 0.804 ug/l  
RT: 4.745 min Scan# 600  
Delta R.T. 0.037 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

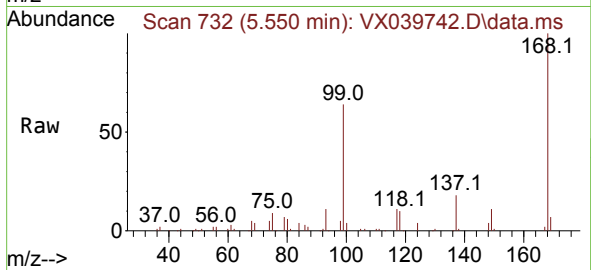
Tgt Ion: 43 Resp: 2092  
Ion Ratio Lower Upper  
43 100  
61 11.6 10.6 16.0  
70 0.0 8.3 12.5#



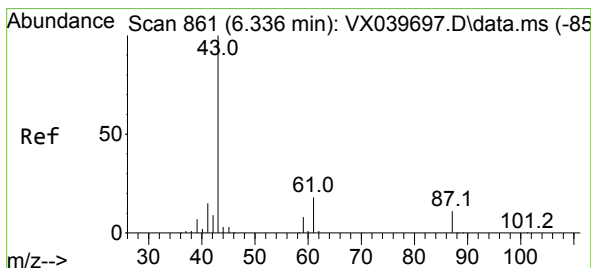
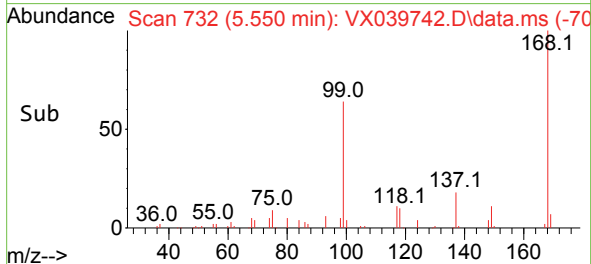
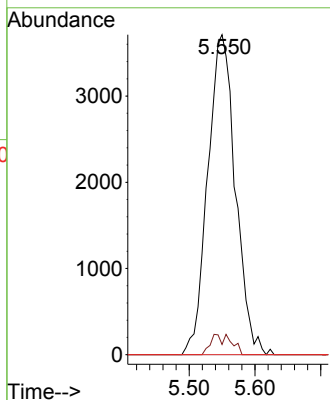


#38  
Carbon Tetrachloride  
Concen: 6.082 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Instrument :  
MSVOA\_X  
ClientSampleId :

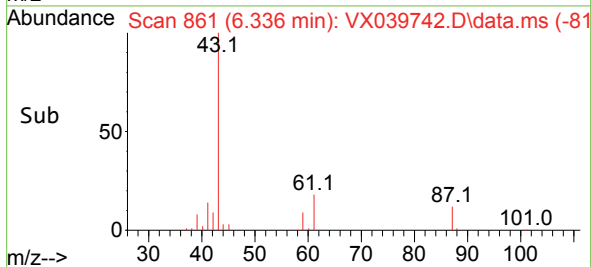
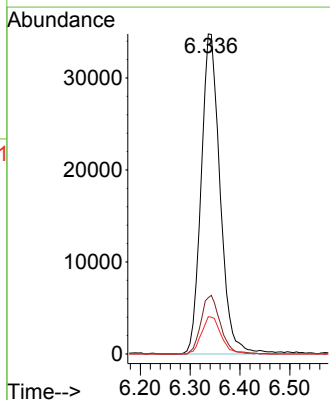
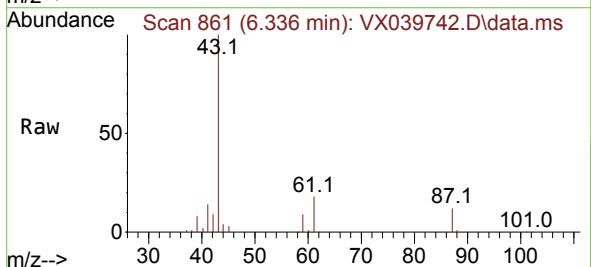


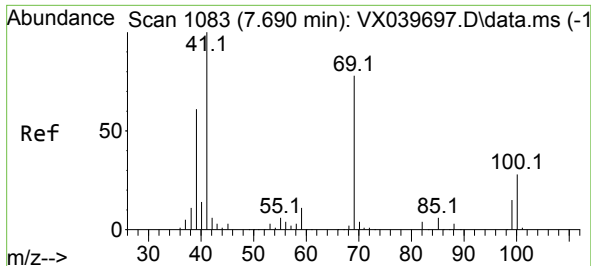
Tgt Ion:117 Resp: 10867  
Ion Ratio Lower Upper  
117 100  
119 3.2 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 24.005 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. 0.000 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion: 43 Resp: 91644  
Ion Ratio Lower Upper  
43 100  
61 18.7 15.2 22.8  
87 12.0 9.8 14.6

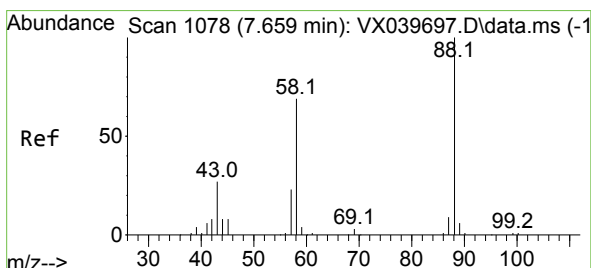
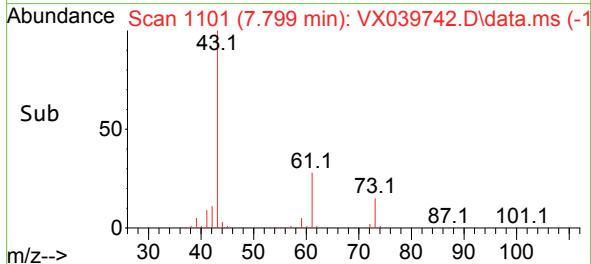
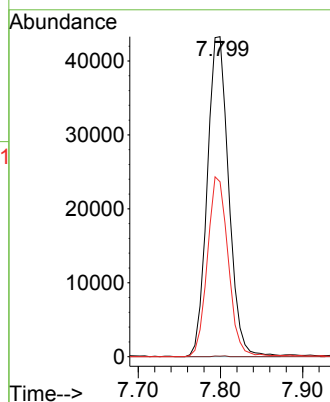
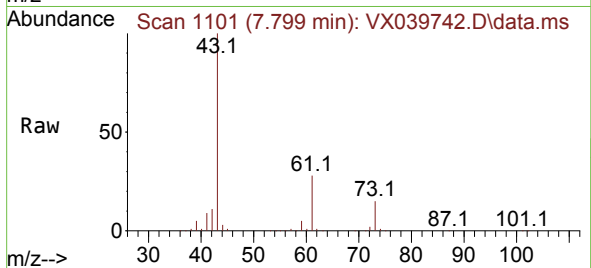




#48  
Methyl methacrylate  
Concen: 41.757 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

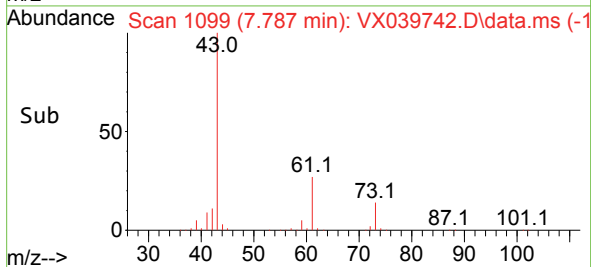
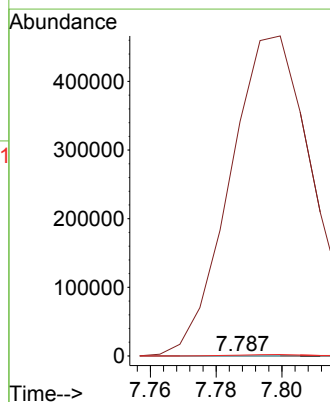
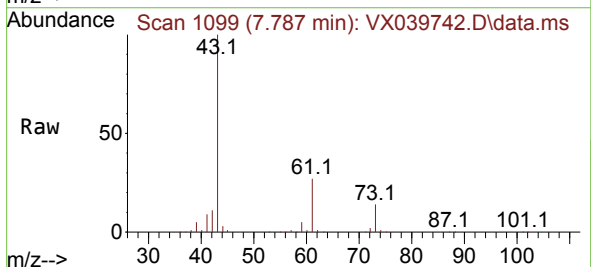
Instrument :  
MSVOA\_X  
ClientSampleId :

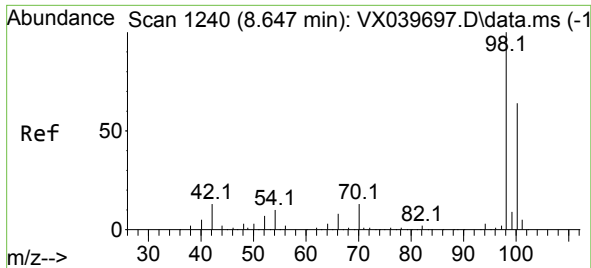
Tgt Ion: 41 Resp: 78361  
Ion Ratio Lower Upper  
41 100  
69 0.1 59.2 88.8#  
39 54.9 47.7 71.5



#49  
1,4-Dioxane  
Concen: 1.349 ug/l  
RT: 7.787 min Scan# 1099  
Delta R.T. 0.128 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion: 88 Resp: 49  
Ion Ratio Lower Upper  
88 100  
43 1710320.4 0.0 0.0#  
58 6753.1 60.1 90.1#

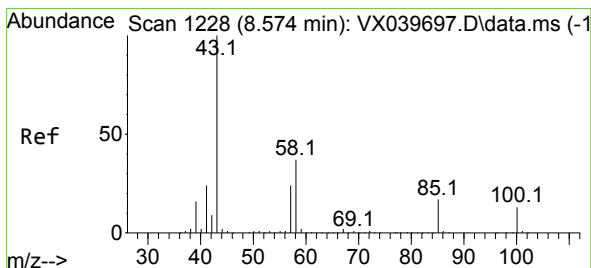
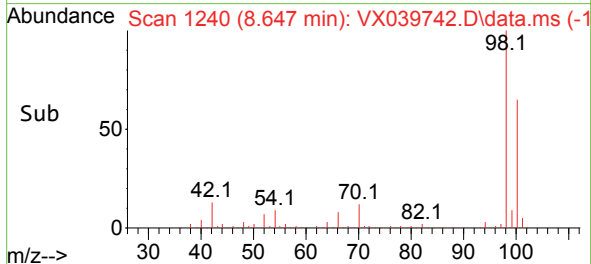
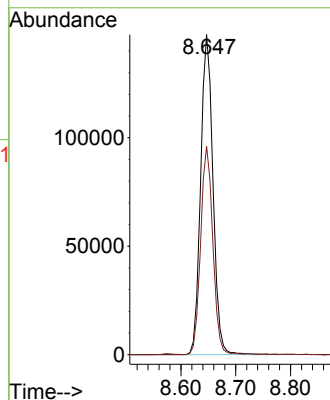
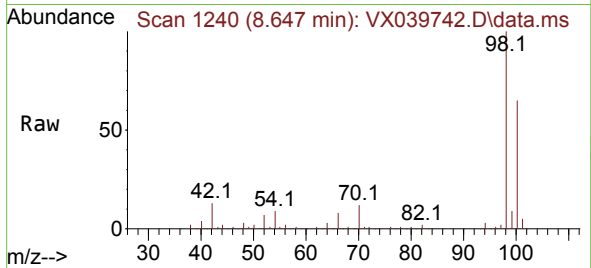




#50  
Toluene-d8  
Concen: 48.815 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

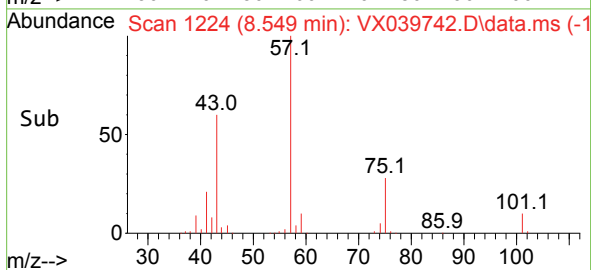
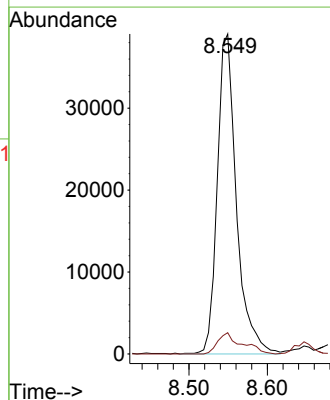
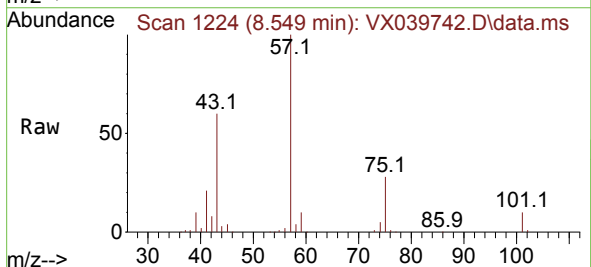
Instrument :  
MSVOA\_X  
ClientSampleId :

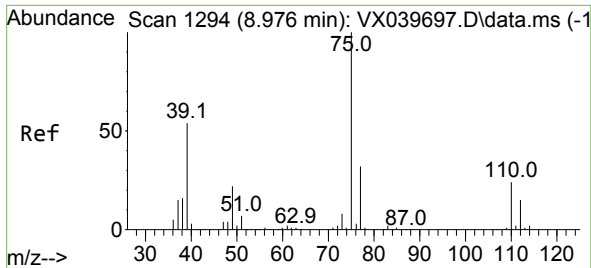
Tgt Ion: 98 Resp: 230741  
Ion Ratio Lower Upper  
98 100  
100 64.3 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 25.235 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion: 43 Resp: 66353  
Ion Ratio Lower Upper  
43 100  
58 8.4 30.4 45.6#

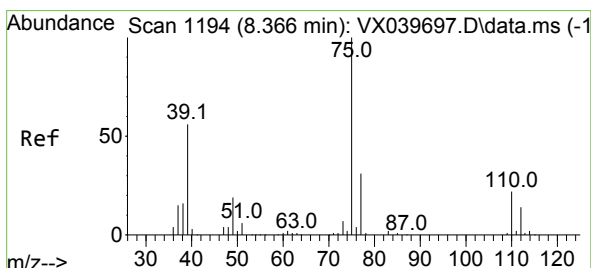
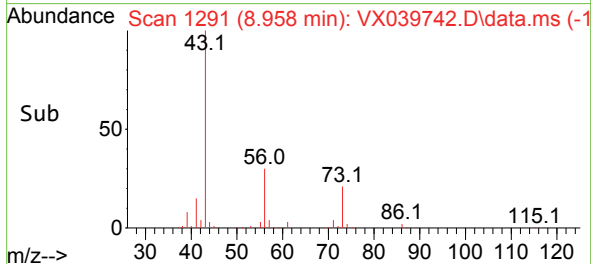
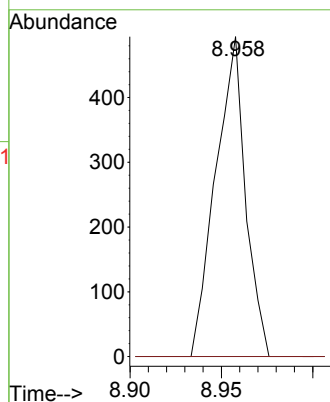
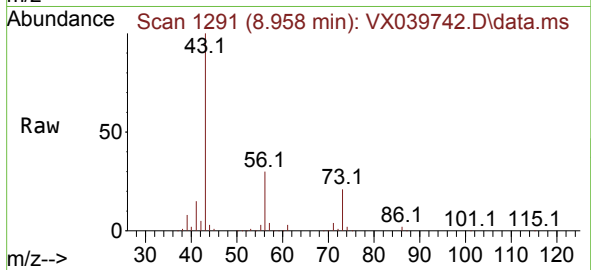




#53  
 t-1,3-Dichloropropene  
 Concen: 0.279 ug/l  
 RT: 8.958 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: VX039742.D  
 Acq: 12 Jan 2024 17:08

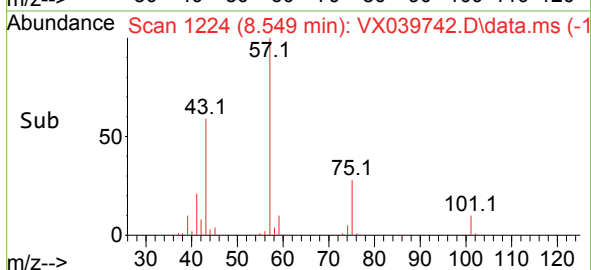
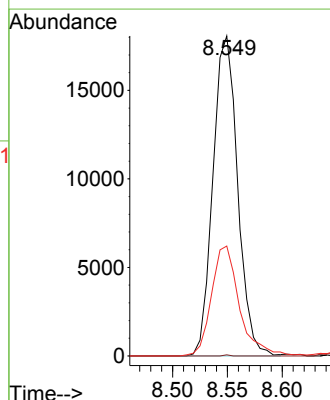
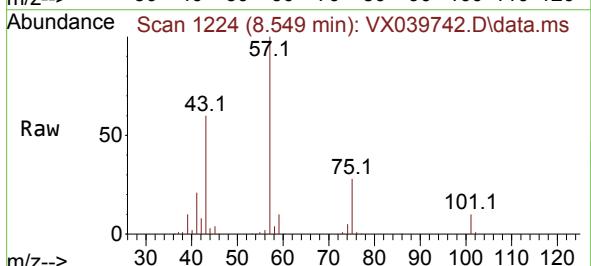
Instrument :  
 MSVOA\_X  
 ClientSampleId :

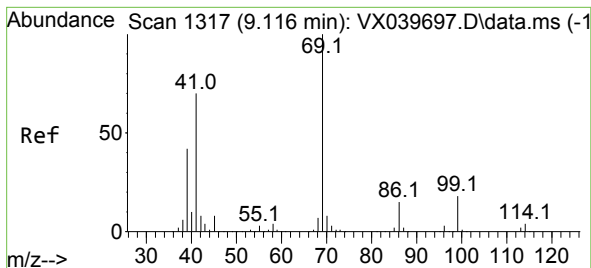
Tgt Ion: 75 Resp: 561  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 12.805 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX039742.D  
 Acq: 12 Jan 2024 17:08

Tgt Ion: 75 Resp: 28321  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 25.3 37.9#  
 39 34.4 46.7 70.1#





#56

Ethyl methacrylate

Concen: 0.280 ug/l

RT: 9.244 min Scan# 1

Delta R.T. 0.128 min

Lab File: VX039742.D

Acq: 12 Jan 2024 17:08

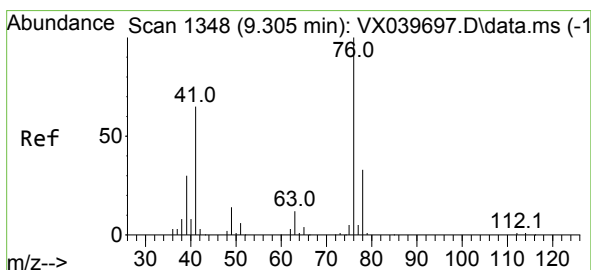
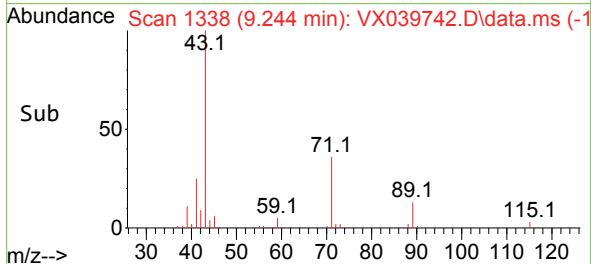
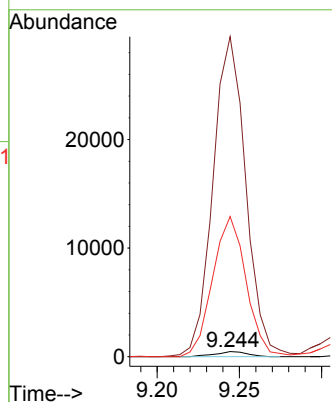
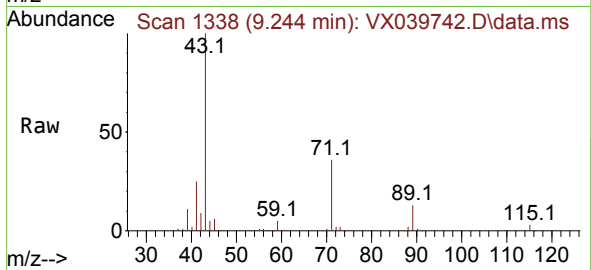
Instrument :

MSVOA\_X

ClientSampleId :

Tgt Ion: 69 Resp: 637

| Ion | Ratio  | Lower | Upper |
|-----|--------|-------|-------|
| 69  | 100    |       |       |
| 41  | 6446.8 | 56.8  | 85.2# |
| 39  | 2866.6 | 32.0  | 48.0# |



#57

1,3-Dichloropropane

Concen: 1.481 ug/l

RT: 9.482 min Scan# 1377

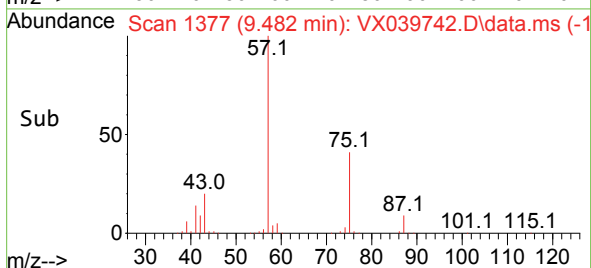
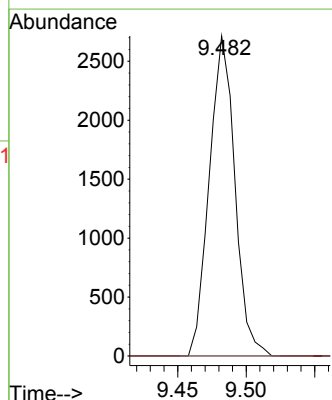
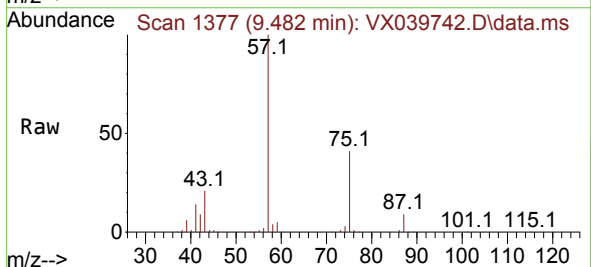
Delta R.T. 0.177 min

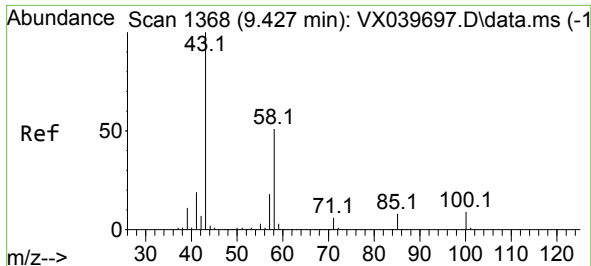
Lab File: VX039742.D

Acq: 12 Jan 2024 17:08

Tgt Ion: 76 Resp: 3525

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 78  | 0.0   | 26.1  | 39.1# |

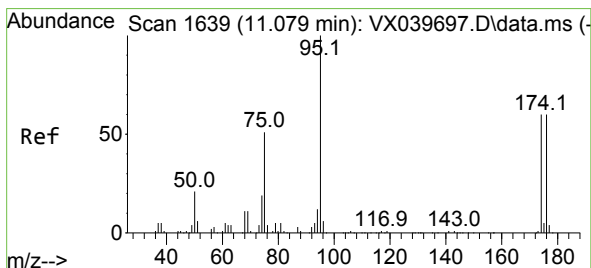
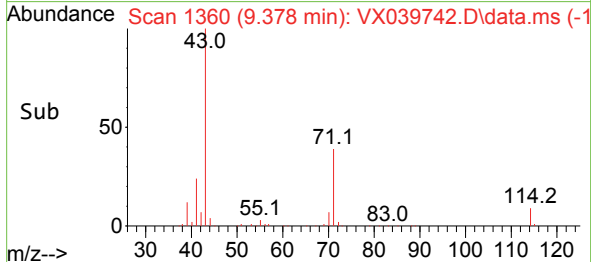
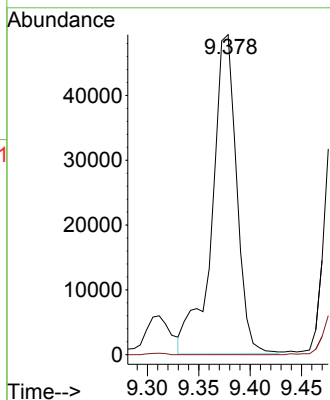
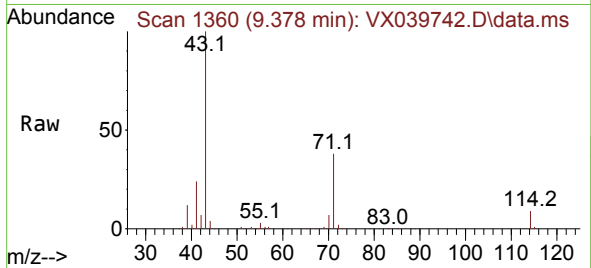




#59  
2-Hexanone  
Concen: 39.405 ug/l  
RT: 9.378 min Scan# 11  
Delta R.T. -0.049 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

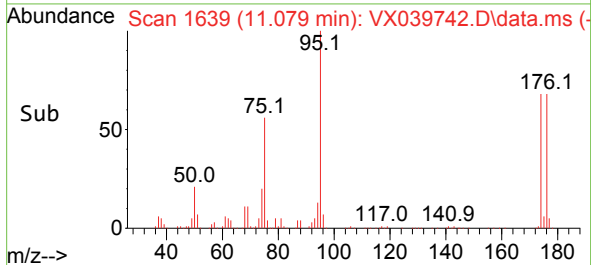
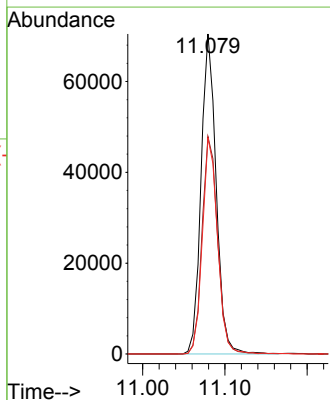
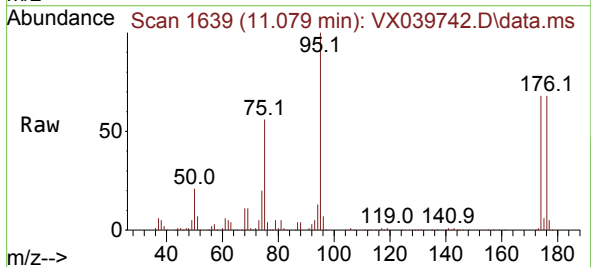
Instrument :  
MSVOA\_X  
ClientSampleId :

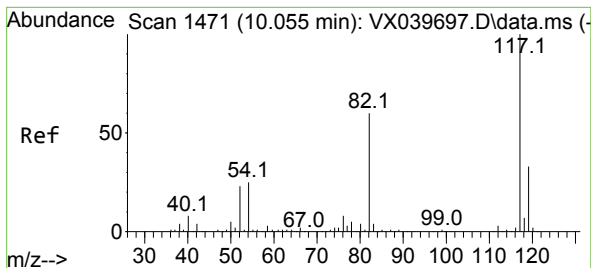
Tgt Ion: 43 Resp: 82001  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 48.710 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX039742.D  
Acq: 12 Jan 2024 17:08

Tgt Ion: 95 Resp: 90038  
Ion Ratio Lower Upper  
95 100  
174 70.2 0.0 135.6  
176 67.8 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: VX039742.D

Acq: 12 Jan 2024 17:08

Instrument :

MSVOA\_X

ClientSampleId :

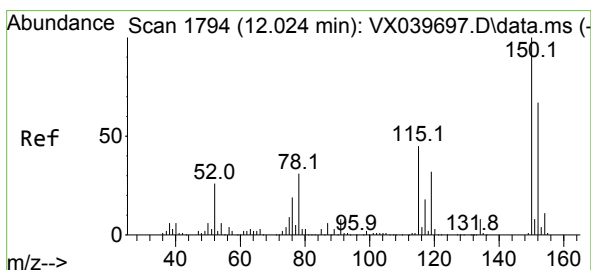
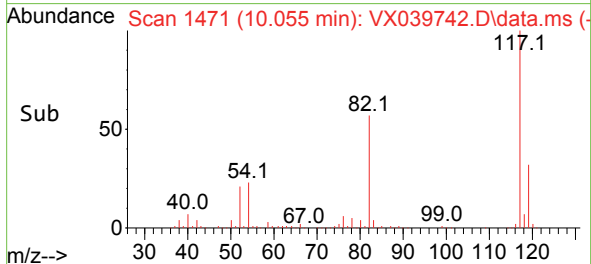
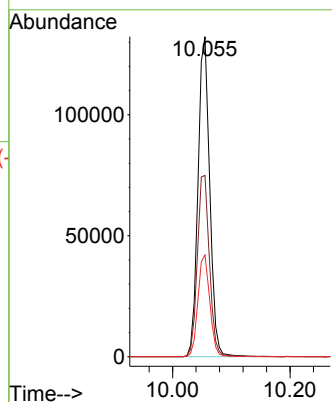
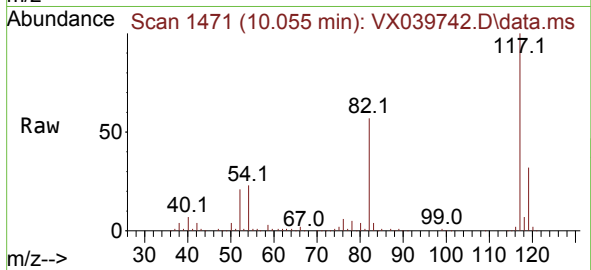
Tgt Ion:117 Resp: 182994

Ion Ratio Lower Upper

117 100

82 56.7 46.2 69.4

119 31.8 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX039742.D

Acq: 12 Jan 2024 17:08

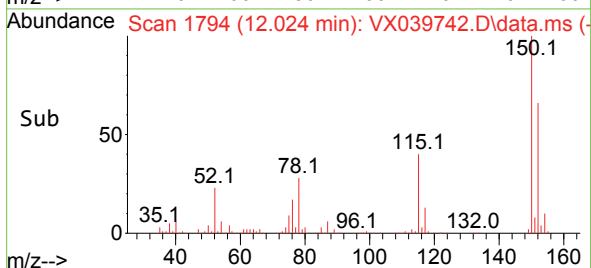
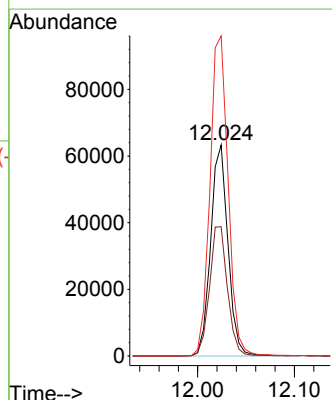
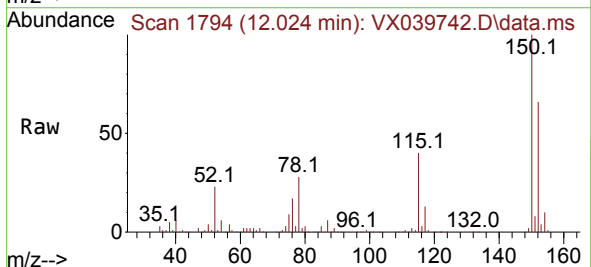
Tgt Ion:152 Resp: 78715

Ion Ratio Lower Upper

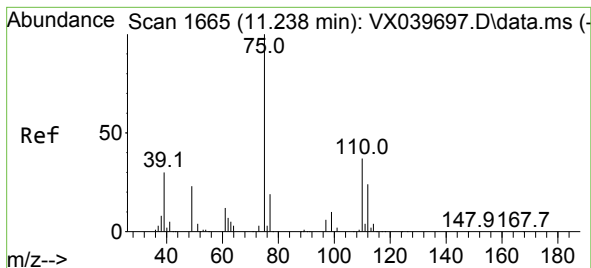
152 100

115 63.8 43.3 129.9

150 159.4 0.0 345.0







#76

1,2,3-Trichloropropane

Concen: 24.164 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX039742.D

Acq: 12 Jan 2024 17:08

Instrument :

MSVOA\_X

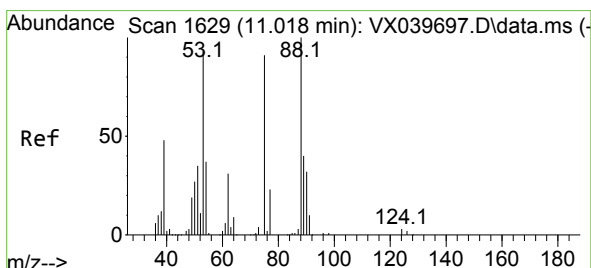
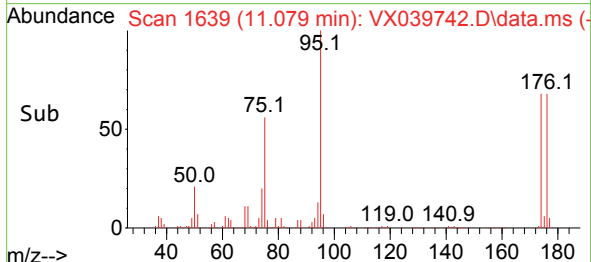
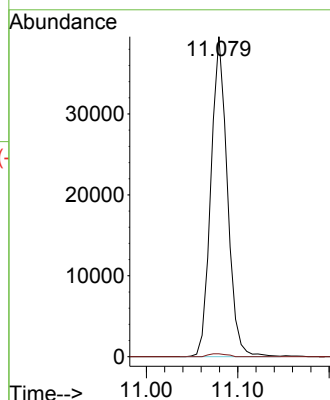
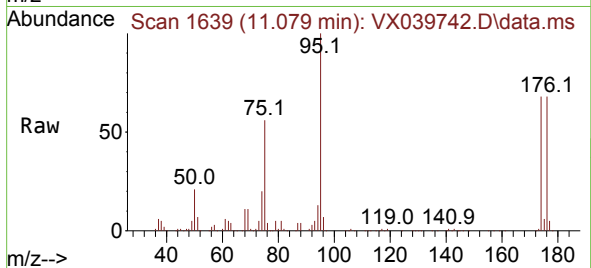
ClientSampleId :

Tgt Ion: 75 Resp: 49313

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.385 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX039742.D

Acq: 12 Jan 2024 17:08

Tgt Ion: 75 Resp: 49313

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

