

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX022324\  
 Data File : VX040436.D  
 Acq On : 23 Feb 2024 16:55  
 Operator : JC/MD  
 Sample : PB159217ZHE#06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

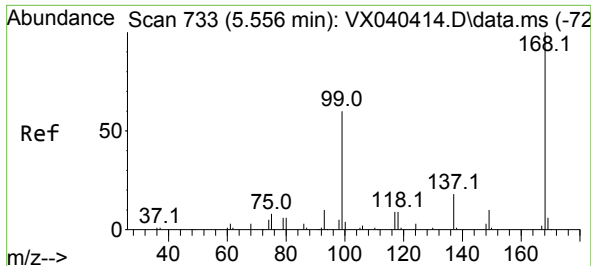
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB159217ZHE#06

Quant Time: Feb 23 22:21:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022224W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 23 06:47:29 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 73604    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 131184   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 131459   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 65803    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 59674    | 49.782   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 99.560%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 44414    | 50.241   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 100.480% |
| 50) Toluene-d8                | 8.647  | 98    | 166543   | 52.156   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 104.320% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 66650    | 52.089   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 104.180% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 1.697  | 64    | 362      | 0.600    | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.965  | 59    | 359      | 1.549    | ug/l # | 78       |
| 13) Acrolein                  | 2.233  | 56    | 211      | 0.761    | ug/l # | 71       |
| 16) Acetone                   | 2.379  | 43    | 24304    | 48.660   | ug/l   | 95       |
| 17) Carbon Disulfide          | 2.513  | 76    | 450      | 0.201    | ug/l # | 76       |
| 18) Methyl Acetate            | 2.709  | 43    | 725      | 0.560    | ug/l # | 67       |
| 20) Methylene Chloride        | 2.788  | 84    | 9600     | 9.180    | ug/l   | 97       |
| 25) 2-Butanone                | 4.574  | 43    | 2278     | 2.925    | ug/l # | 82       |
| 29) Tetrahydrofuran           | 5.037  | 42    | 186      | 0.359    | ug/l # | 34       |
| 31) Cyclohexane               | 5.556  | 56    | 2149     | 1.495    | ug/l # | 48       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 7127     | 5.209    | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.745  | 43    | 1791     | 1.146    | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 8099     | 6.398    | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 54246    | 22.618   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.799  | 41    | 50261    | 42.315   | ug/l # | 50       |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 42277    | 25.954   | ug/l # | 50       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 16522    | 11.092   | ug/l # | 64       |
| 56) Ethyl methacrylate        | 9.250  | 69    | 360      | 0.241    | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 2235     | 1.314    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.372  | 43    | 51432    | 40.939   | ug/l # | 26       |
| 74) N-amyl acetate            | 10.811 | 43    | 492      | 0.228    | ug/l # | 44       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 37266    | 25.469   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 37266    | 88.620   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

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

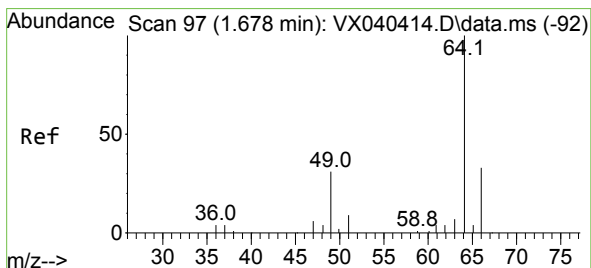
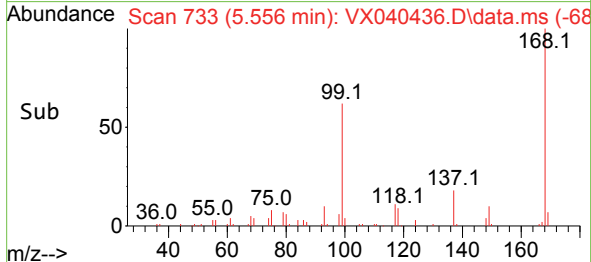
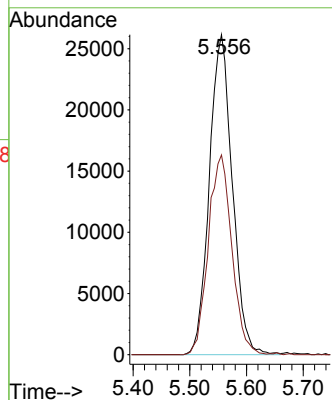
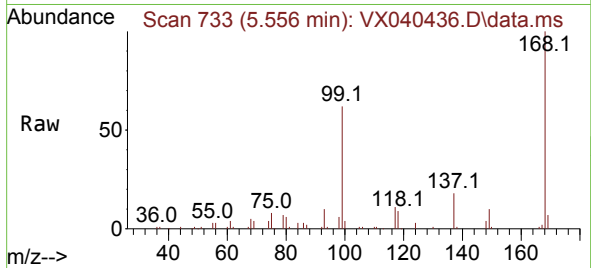




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

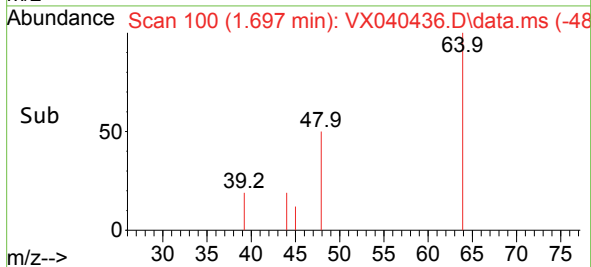
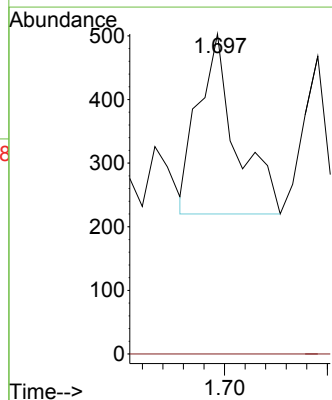
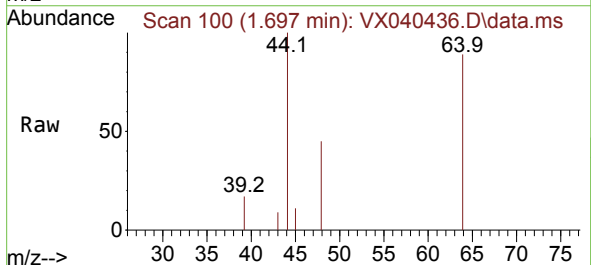
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

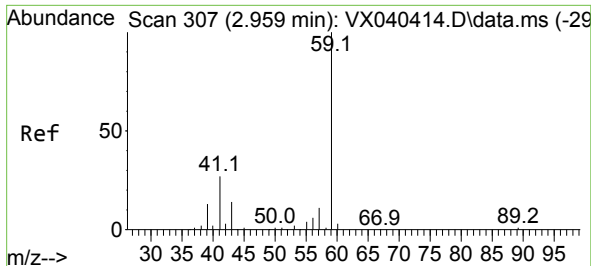
Tgt Ion:168 Resp: 73604  
Ion Ratio Lower Upper  
168 100  
99 62.4 56.6 85.0



#6  
Chloroethane  
Concen: 0.600 ug/l  
RT: 1.697 min Scan# 100  
Delta R.T. 0.018 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 64 Resp: 362  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#

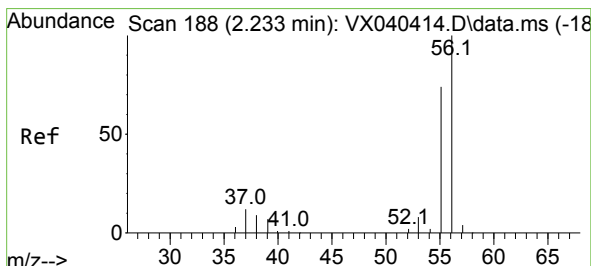
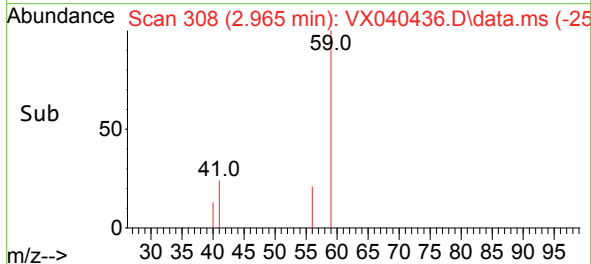
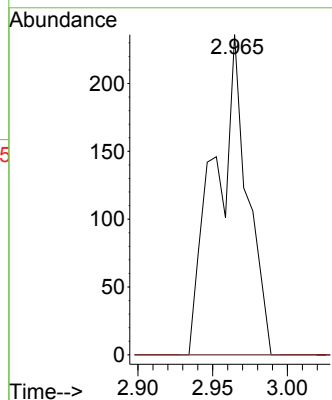
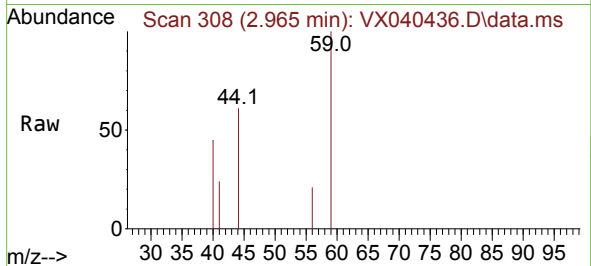




#11  
Tert butyl alcohol  
Concen: 1.549 ug/l  
RT: 2.965 min Scan# 307  
Delta R.T. 0.006 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

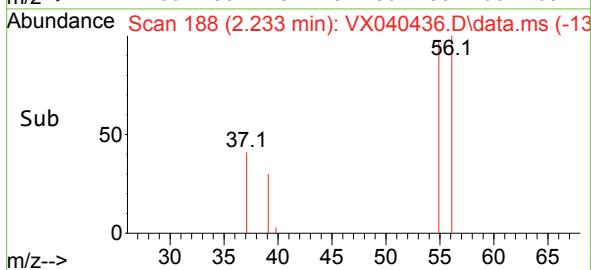
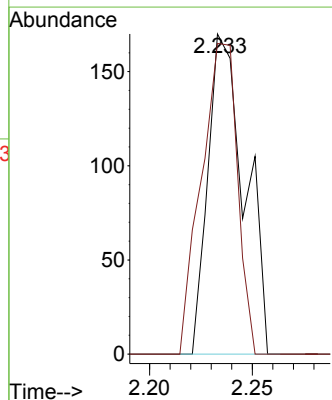
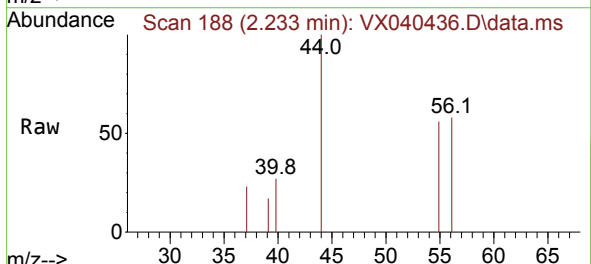
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

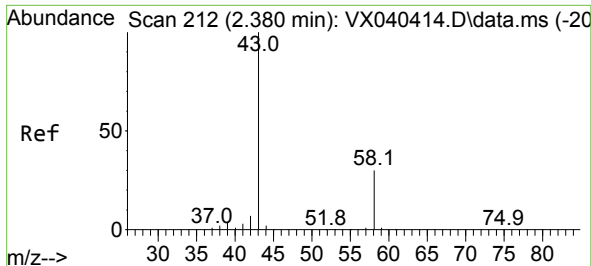
Tgt Ion: 59 Resp: 359  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



#13  
Acrolein  
Concen: 0.761 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 56 Resp: 211  
Ion Ratio Lower Upper  
56 100  
55 95.3 57.1 85.7#

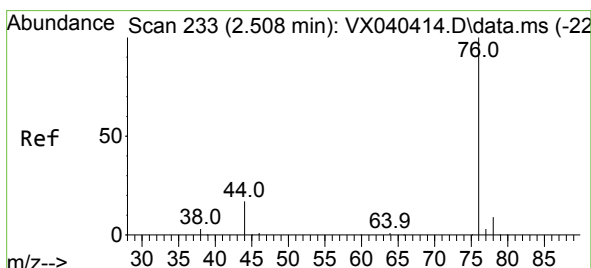
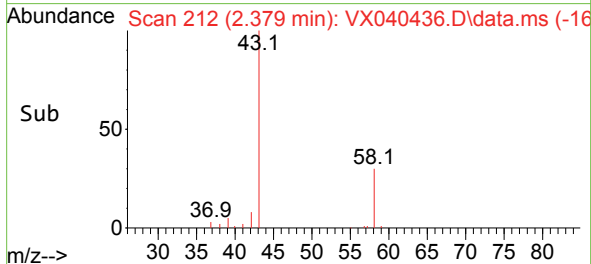
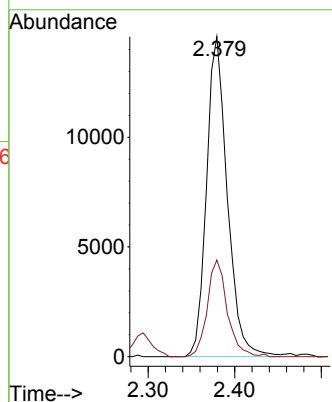
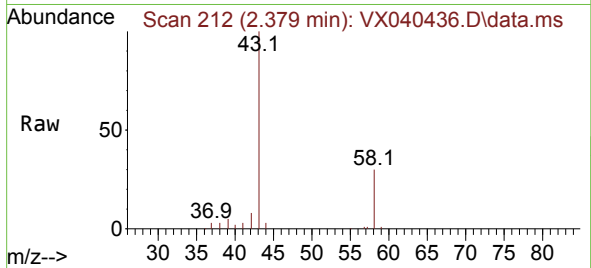




#16  
Acetone  
Concen: 48.660 ug/l  
RT: 2.379 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

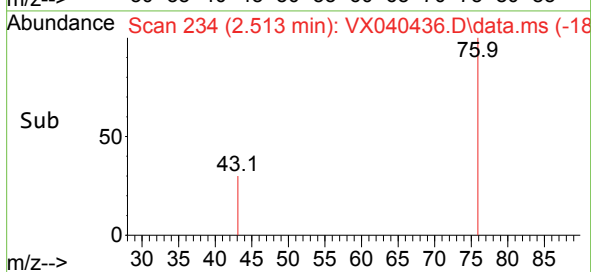
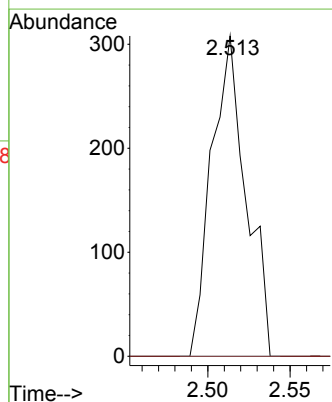
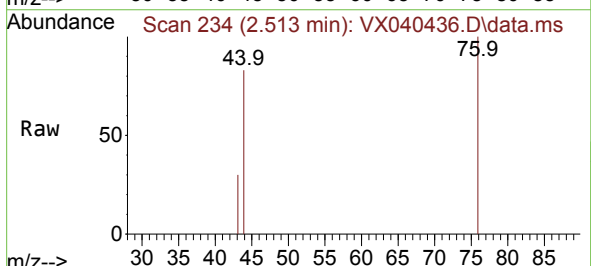
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

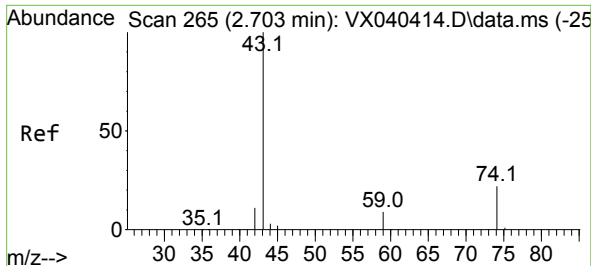
Tgt Ion: 43 Resp: 24304  
Ion Ratio Lower Upper  
43 100  
58 30.2 21.9 32.9



#17  
Carbon Disulfide  
Concen: 0.201 ug/l  
RT: 2.513 min Scan# 234  
Delta R.T. 0.006 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 76 Resp: 450  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.6#

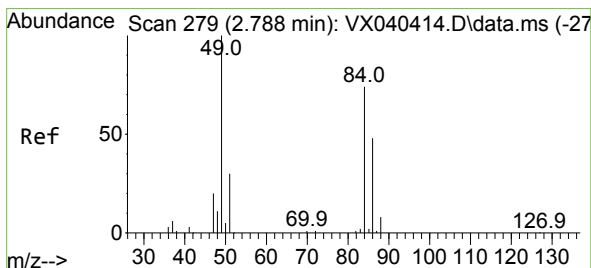
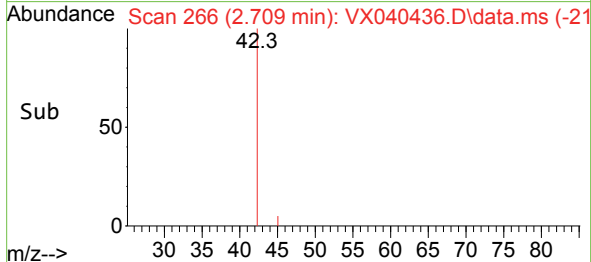
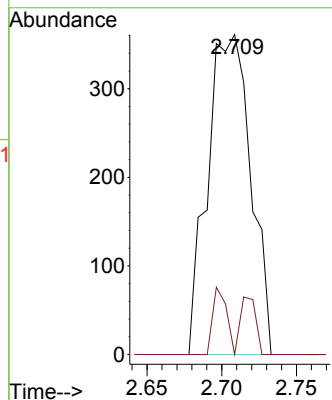
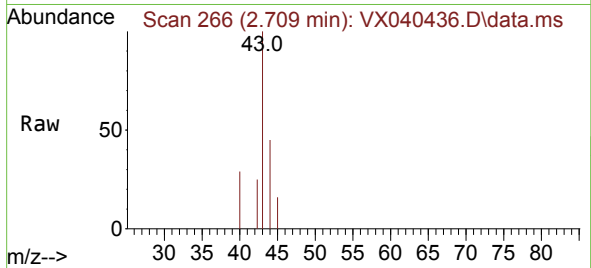




#18  
Methyl Acetate  
Concen: 0.560 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

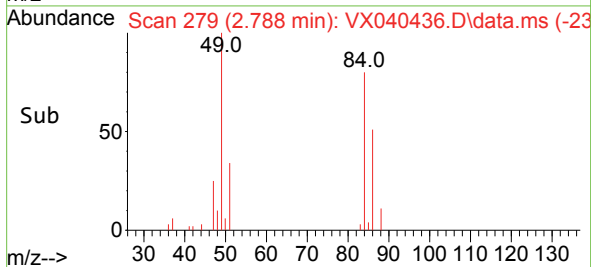
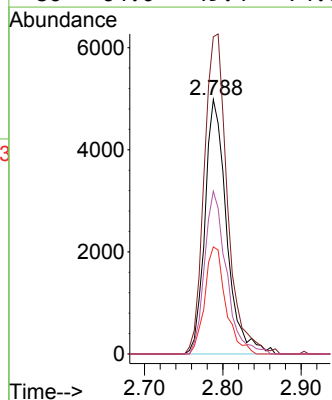
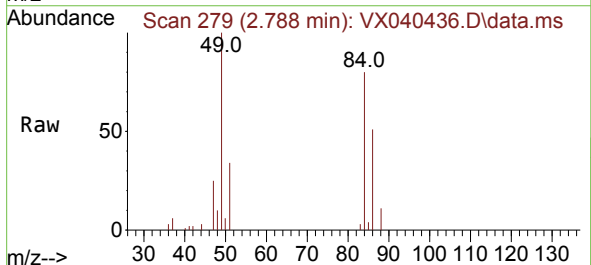
Instrument :  
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ClientSampleId :  
PB159217ZHE#06

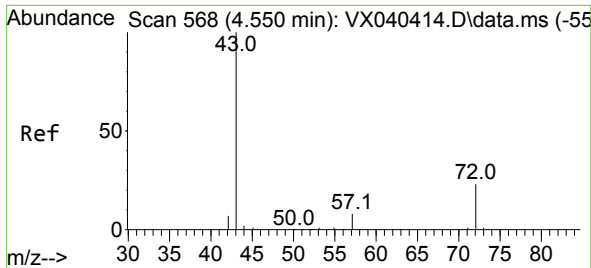
Tgt Ion: 43 Resp: 725  
Ion Ratio Lower Upper  
43 100  
74 6.3 17.8 26.8#



#20  
Methylene Chloride  
Concen: 9.180 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 84 Resp: 9600  
Ion Ratio Lower Upper  
84 100  
49 124.7 103.6 155.4  
51 42.1 33.8 50.6  
86 64.0 49.4 74.0

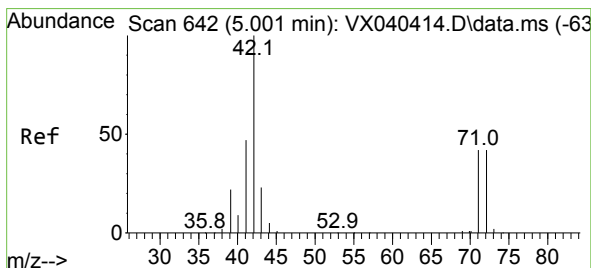
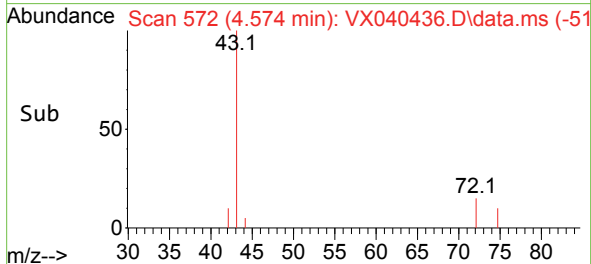
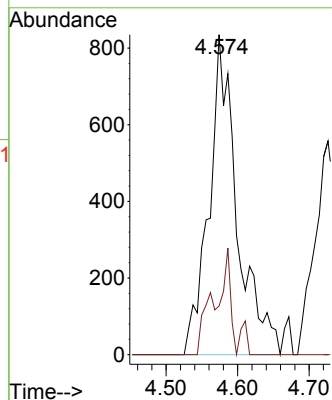
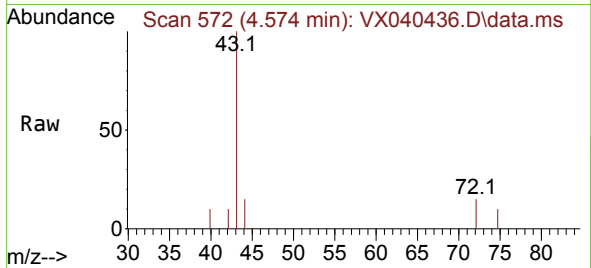




#25  
2-Butanone  
Concen: 2.925 ug/l  
RT: 4.574 min Scan# 51  
Delta R.T. 0.024 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

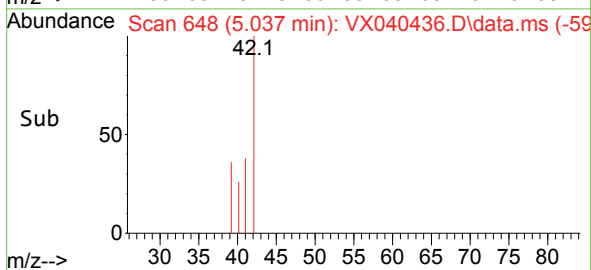
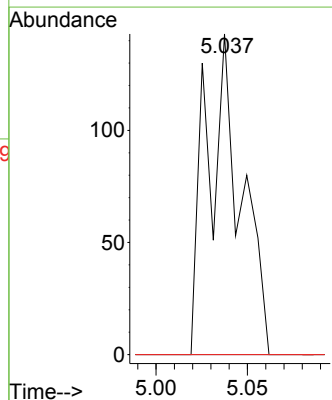
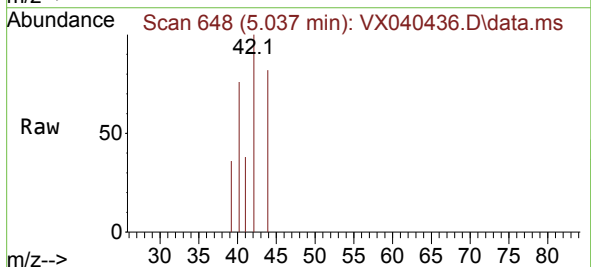
Instrument :  
MSVOA\_X  
ClientSampleId :  
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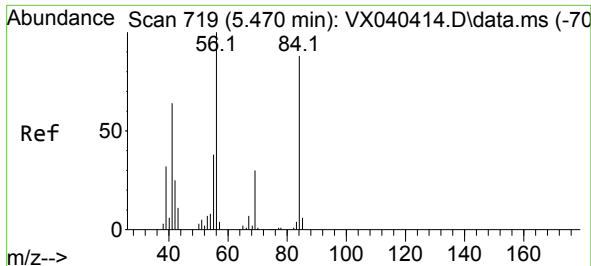
Tgt Ion: 43 Resp: 2278  
Ion Ratio Lower Upper  
43 100  
72 15.2 19.4 29.2#



#29  
Tetrahydrofuran  
Concen: 0.359 ug/l  
RT: 5.037 min Scan# 648  
Delta R.T. 0.036 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

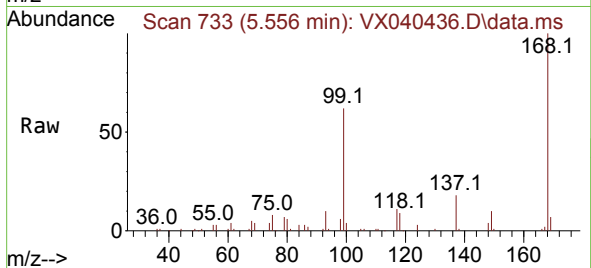
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42 100  
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71 0.0 32.2 48.2#



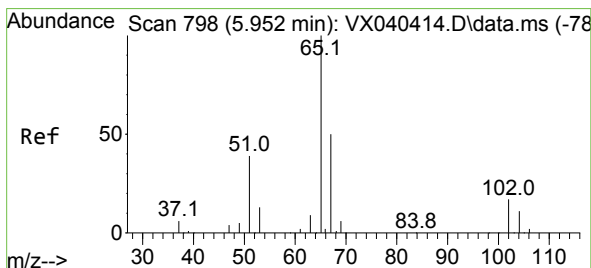
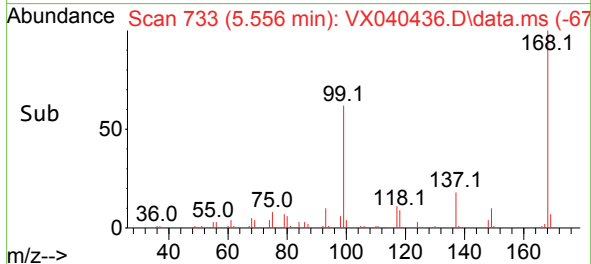
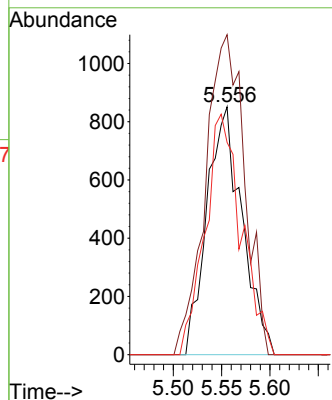


#31  
Cyclohexane  
Concen: 1.495 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX040436.D  
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Instrument :  
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ClientSampleId :  
PB159217ZHE#06

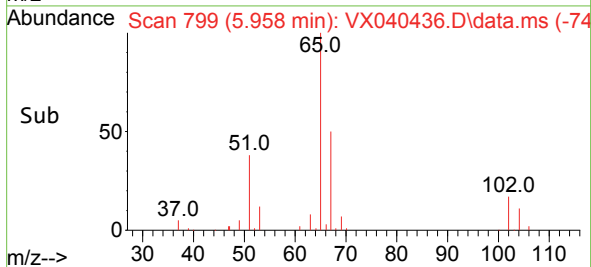
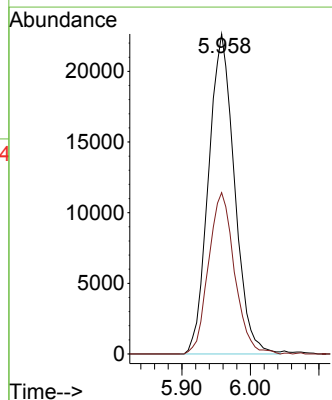
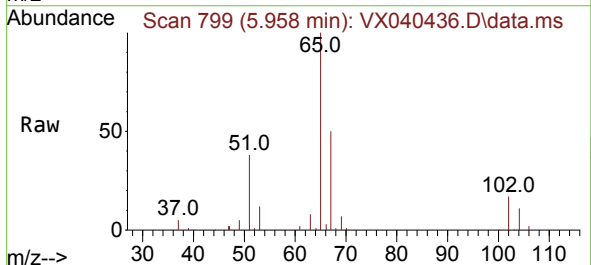


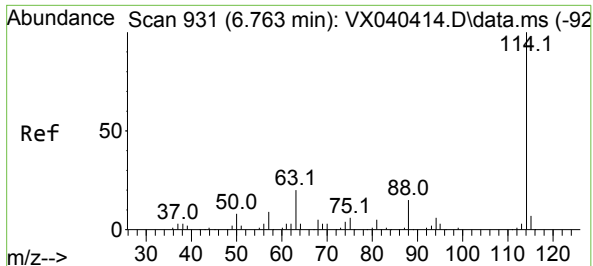
Tgt Ion: 56 Resp: 2149  
Ion Ratio Lower Upper  
56 100  
69 129.1 23.4 35.2#  
84 85.7 65.9 98.9



#33  
1,2-Dichloroethane-d4  
Concen: 49.782 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 65 Resp: 59674  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 100.2

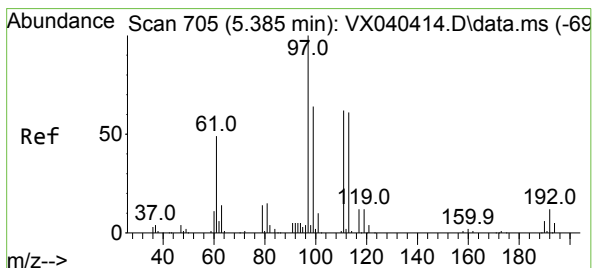
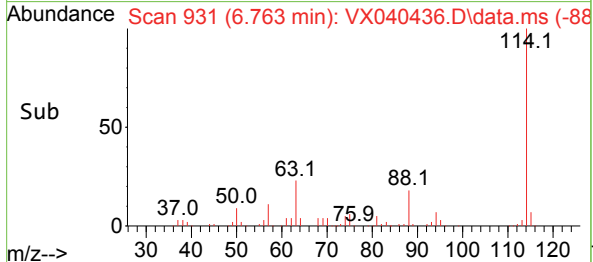
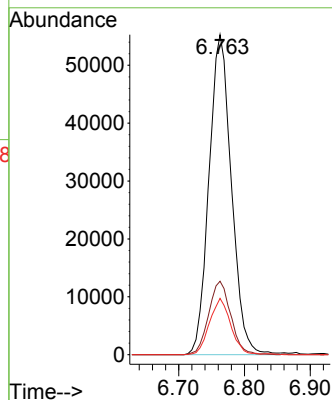
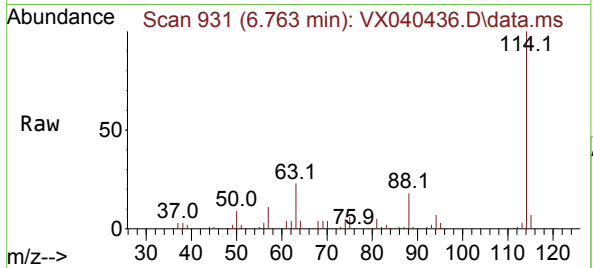




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

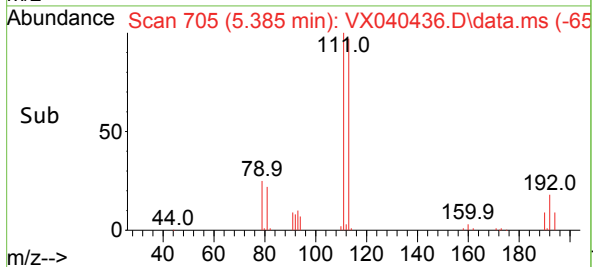
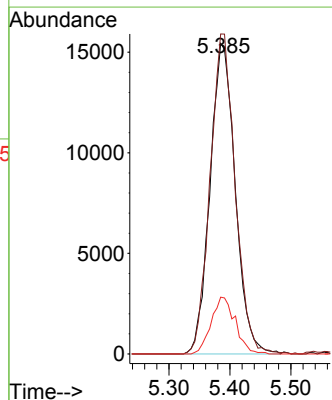
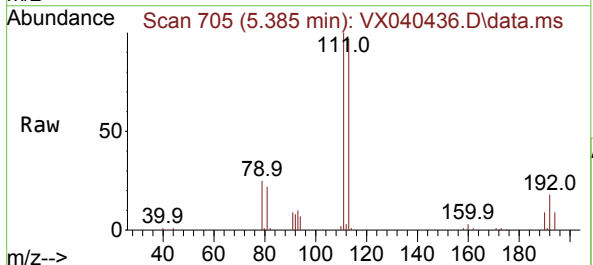
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

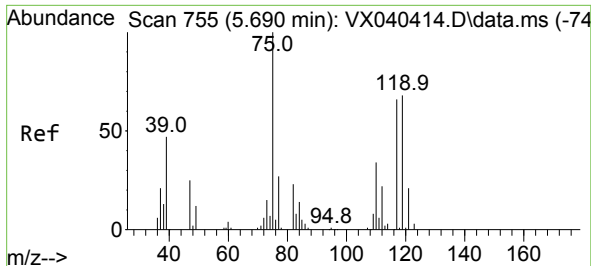
Tgt Ion:114 Resp: 131184  
Ion Ratio Lower Upper  
114 100  
63 22.9 0.0 45.0  
88 17.6 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 50.241 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion:113 Resp: 44414  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.9 124.3  
192 17.5 13.3 19.9

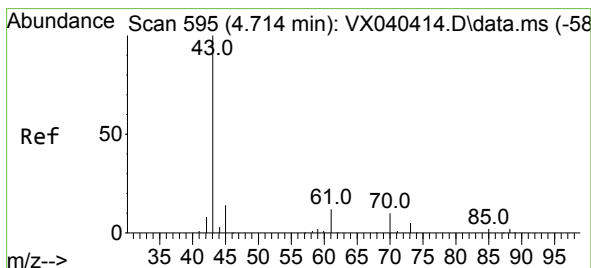
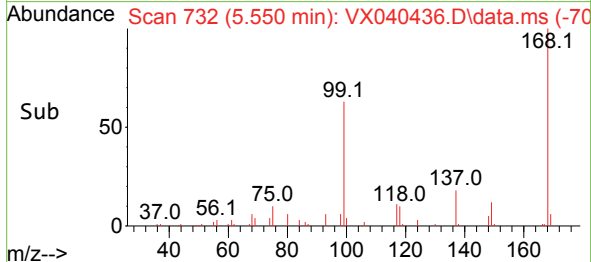
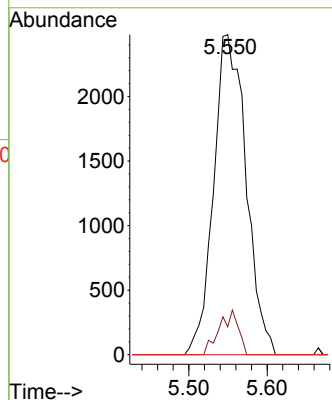
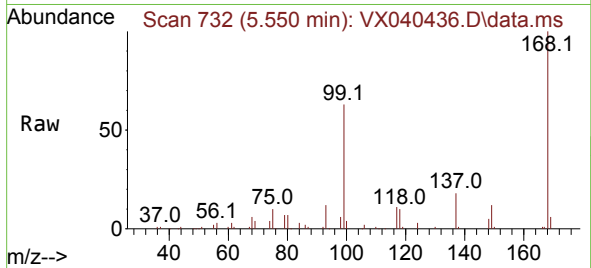




#36  
1,1-Dichloropropene  
Concen: 5.209 ug/l  
RT: 5.550 min Scan# 7127  
Delta R.T. -0.140 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

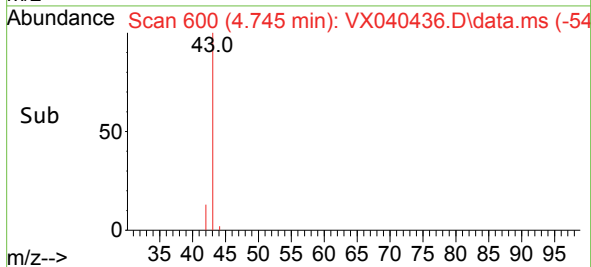
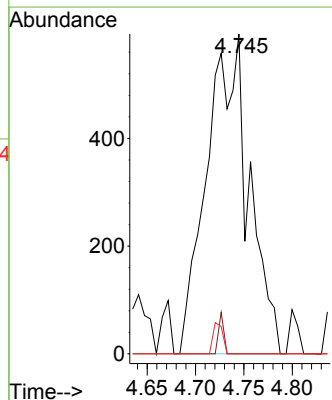
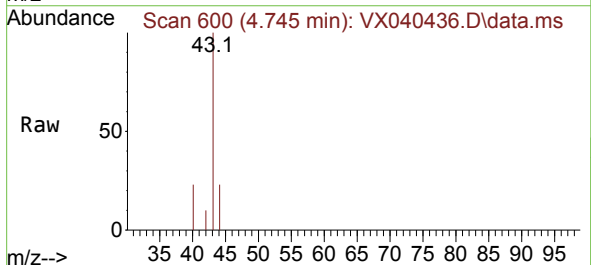
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

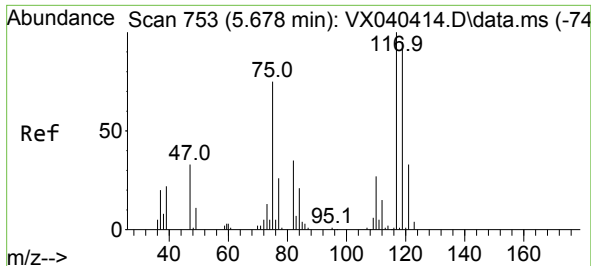
Tgt Ion: 75 Resp: 7127  
Ion Ratio Lower Upper  
75 100  
110 8.2 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 1.146 ug/l  
RT: 4.745 min Scan# 600  
Delta R.T. 0.030 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

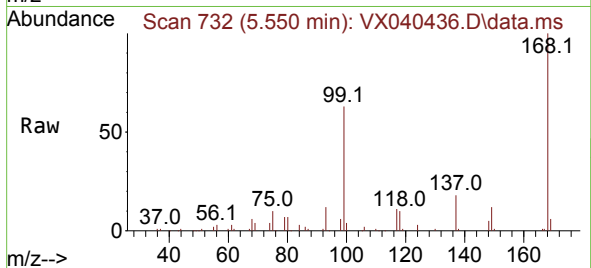
Tgt Ion: 43 Resp: 1791  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 16.0#  
70 0.0 8.3 12.5#



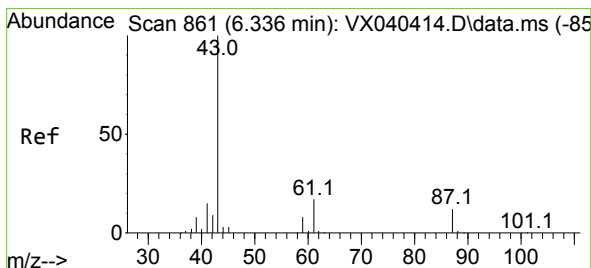
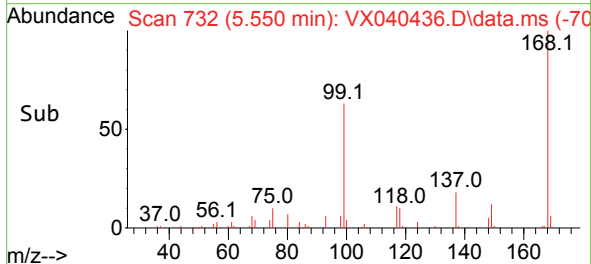
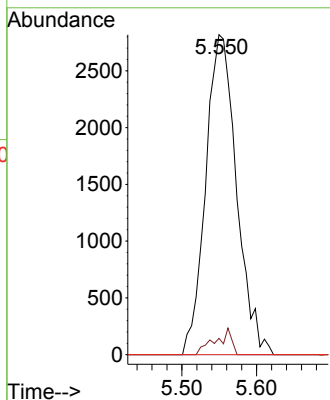


#38  
Carbon Tetrachloride  
Concen: 6.398 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

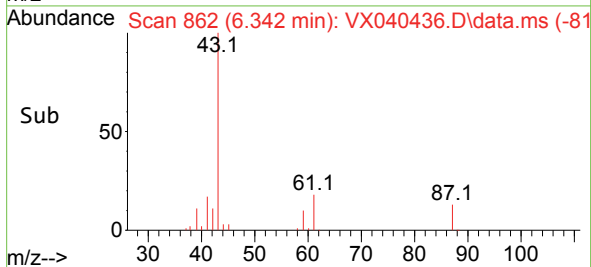
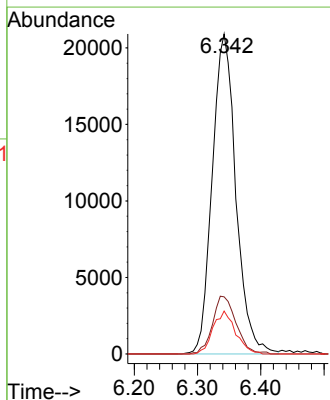
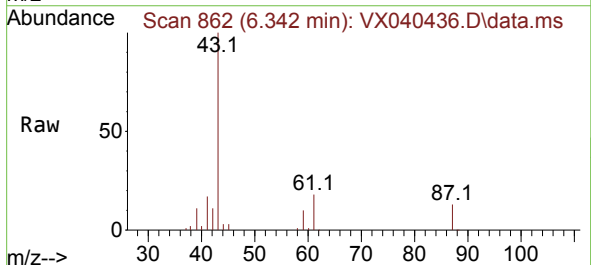


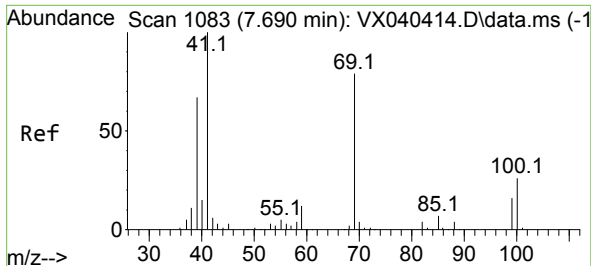
Tgt Ion:117 Resp: 8099  
Ion Ratio Lower Upper  
117 100  
119 5.1 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 22.618 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 43 Resp: 54246  
Ion Ratio Lower Upper  
43 100  
61 18.0 15.2 22.8  
87 12.8 9.8 14.6





#48

Methyl methacrylate

Concen: 42.315 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX040436.D

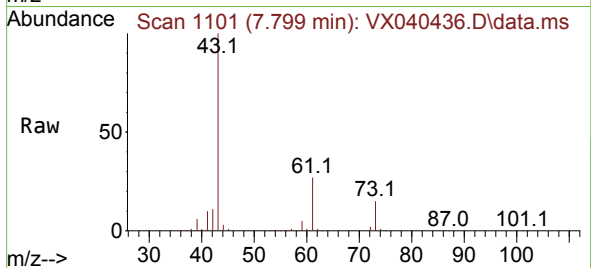
Acq: 23 Feb 2024 16:55

Instrument :

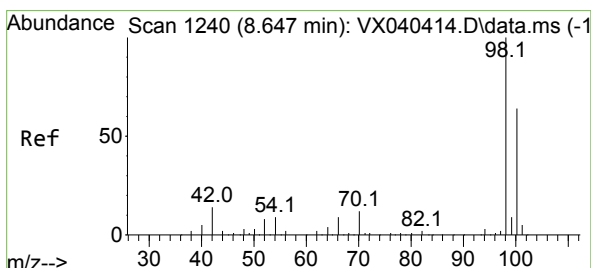
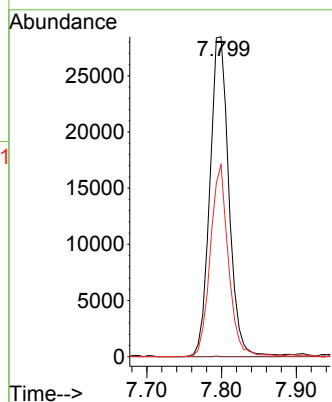
MSVOA\_X

ClientSampleId :

PB159217ZHE#06



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 41    | Resp: | 50261 |
| Ion Ratio | Lower | Upper |       |
| 41        | 100   |       |       |
| 69        | 0.0   | 59.2  | 88.8# |
| 39        | 57.3  | 47.7  | 71.5  |



#50

Toluene-d8

Concen: 52.156 ug/l

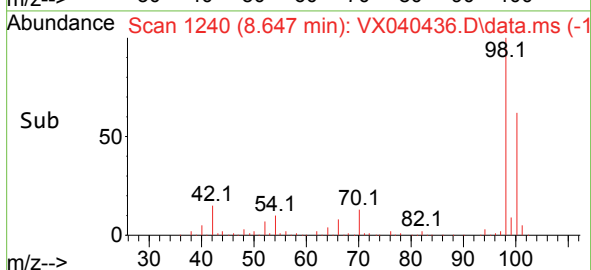
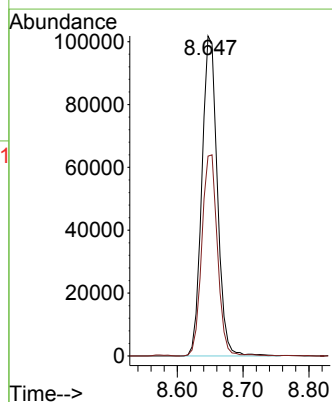
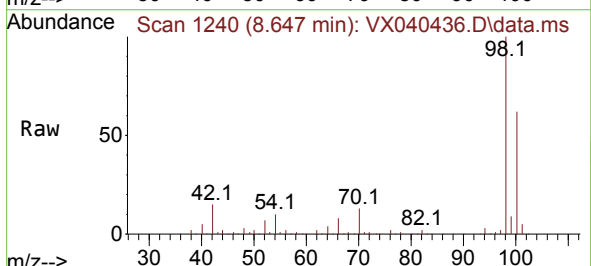
RT: 8.647 min Scan# 1240

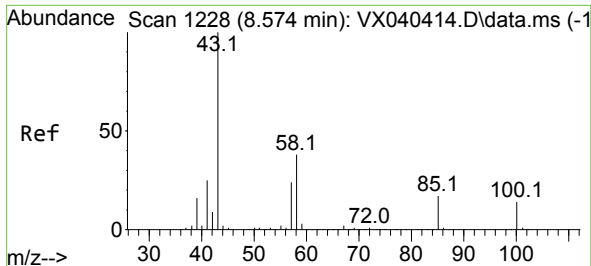
Delta R.T. -0.000 min

Lab File: VX040436.D

Acq: 23 Feb 2024 16:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 98    | Resp: | 166543 |
| Ion Ratio | Lower | Upper |        |
| 98        | 100   |       |        |
| 100       | 63.8  | 53.1  | 79.7   |

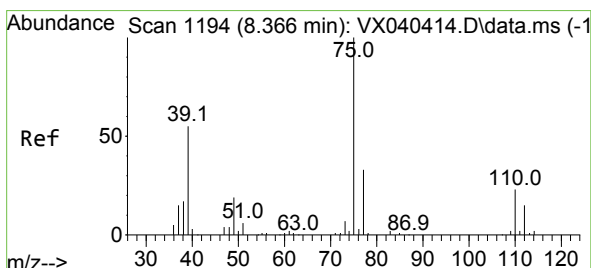
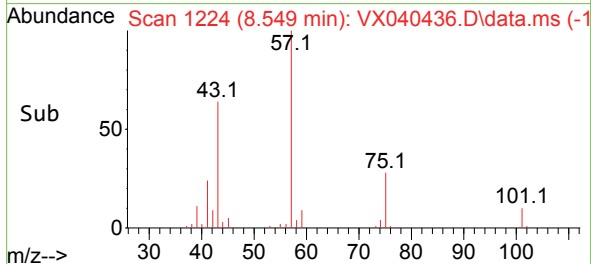
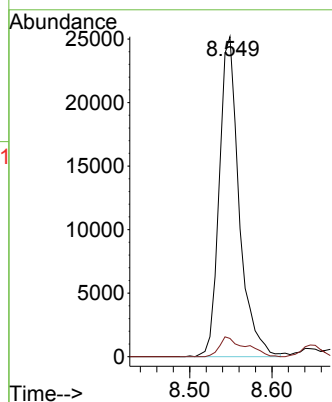
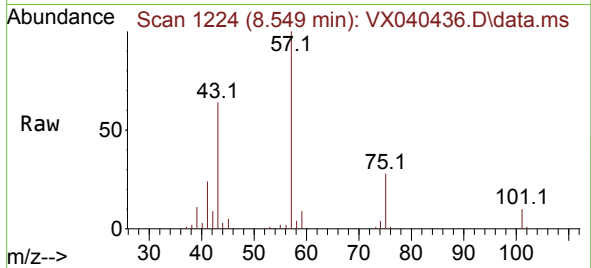




#51  
4-Methyl-2-Pentanone  
Concen: 25.954 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.025 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

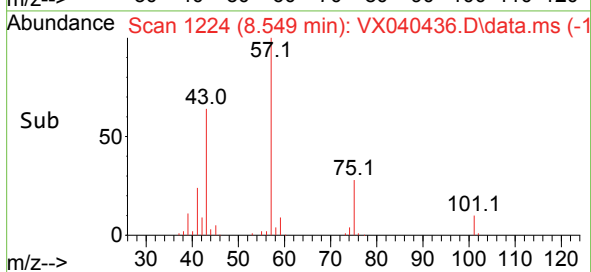
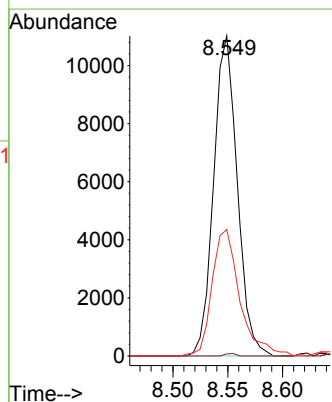
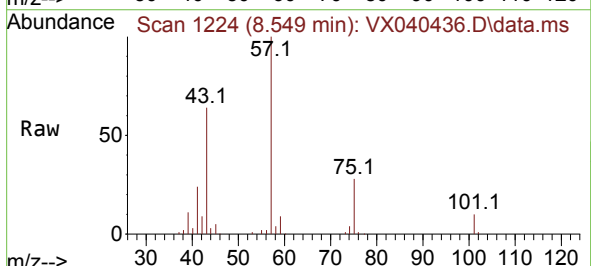
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

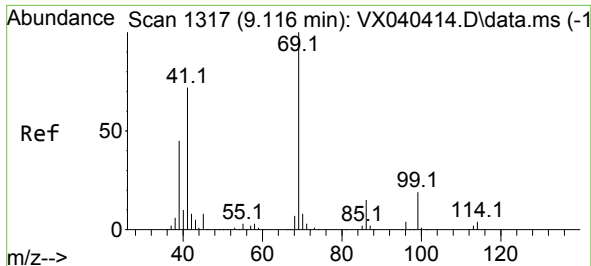
Tgt Ion: 43 Resp: 42277  
Ion Ratio Lower Upper  
43 100  
58 8.1 30.4 45.6#



#54  
cis-1,3-Dichloropropene  
Concen: 11.092 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 75 Resp: 16522  
Ion Ratio Lower Upper  
75 100  
77 0.6 25.3 37.9#  
39 39.5 46.7 70.1#

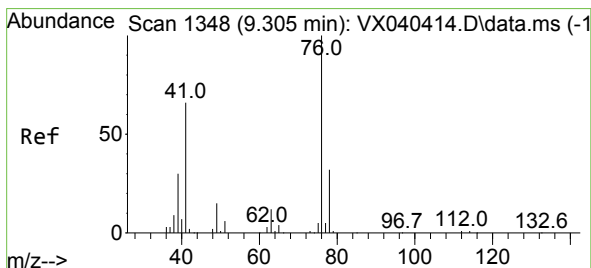
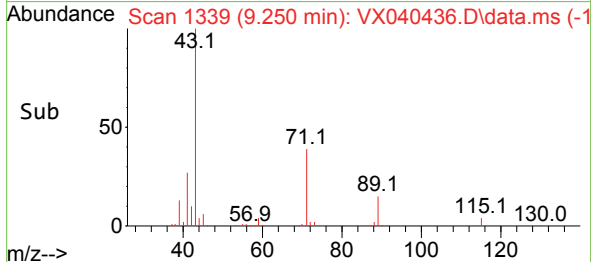
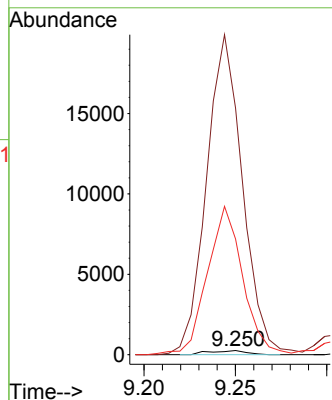
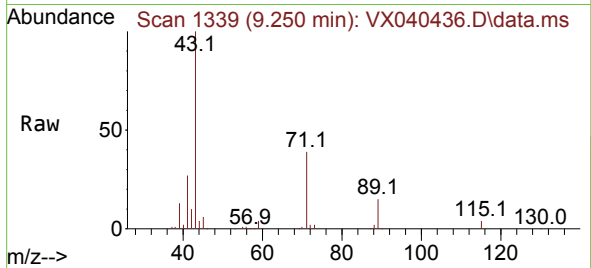




#56  
Ethyl methacrylate  
Concen: 0.241 ug/l  
RT: 9.250 min Scan# 11  
Delta R.T. 0.134 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

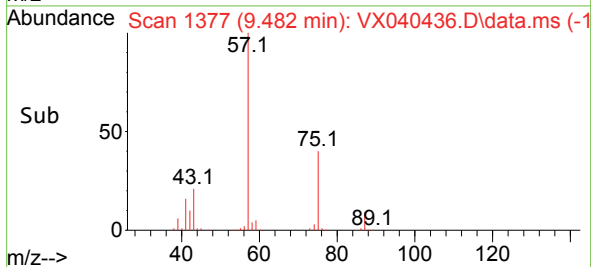
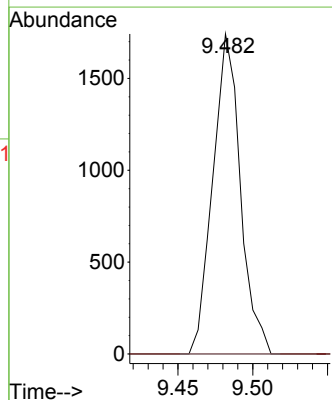
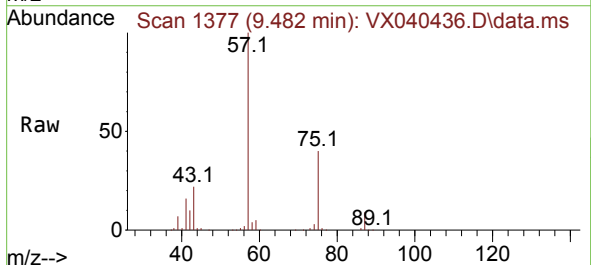
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

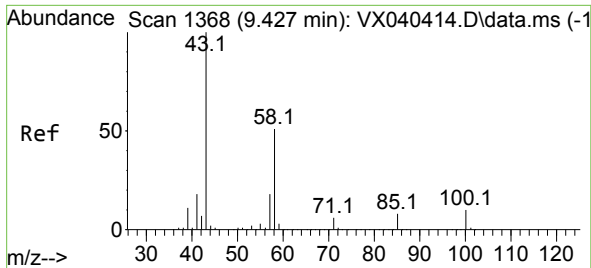
Tgt Ion: 69 Resp: 360  
Ion Ratio Lower Upper  
69 100  
41 7600.8 56.8 85.2#  
39 3459.4 32.0 48.0#



#57  
1,3-Dichloropropane  
Concen: 1.314 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 76 Resp: 2235  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

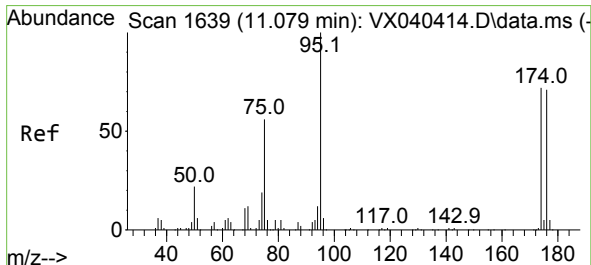
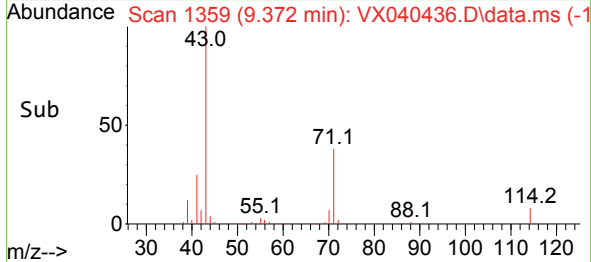
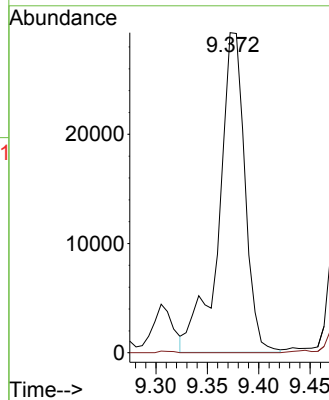
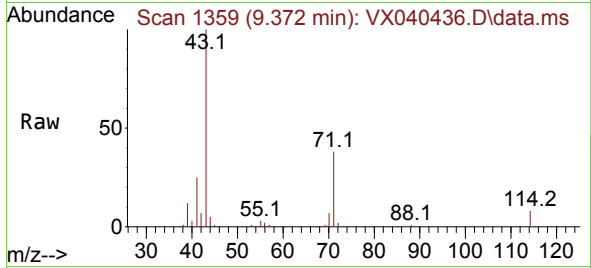




#59  
2-Hexanone  
Concen: 40.939 ug/l  
RT: 9.372 min Scan# 11  
Delta R.T. -0.055 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

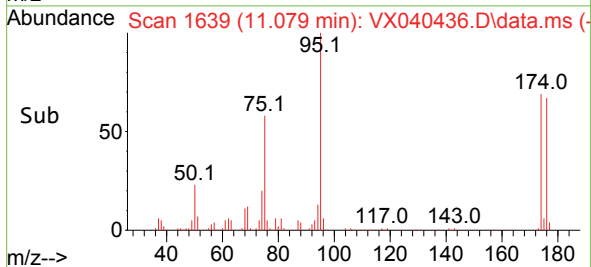
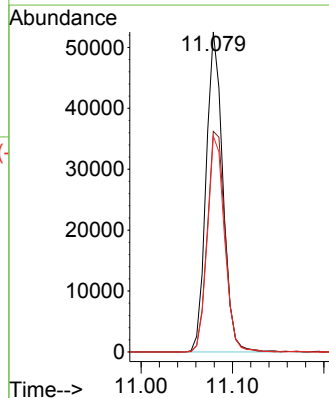
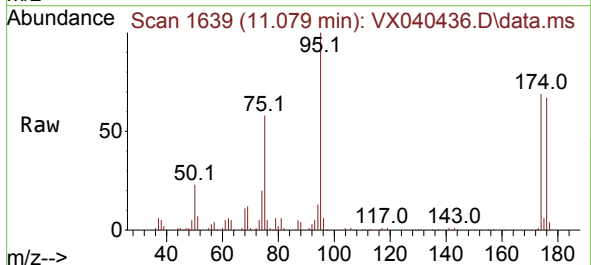
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

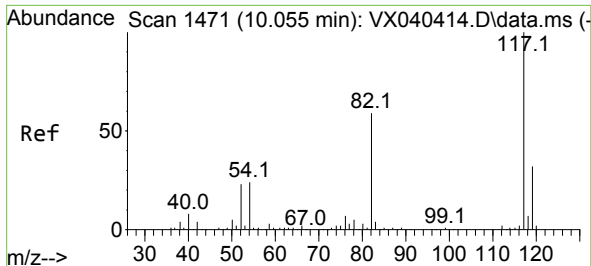
Tgt Ion: 43 Resp: 51432  
Ion Ratio Lower Upper  
43 100  
58 0.0 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 52.089 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion: 95 Resp: 66650  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 135.6  
176 69.5 0.0 131.0

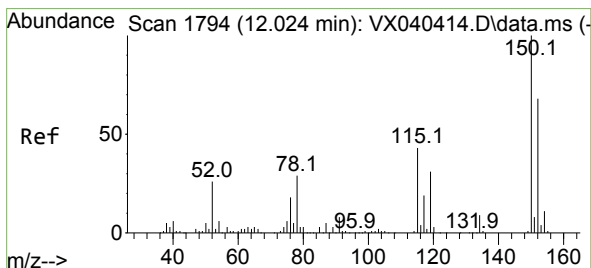
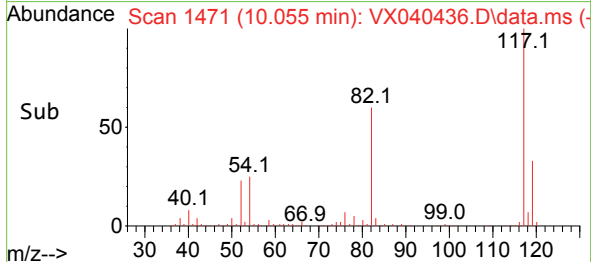
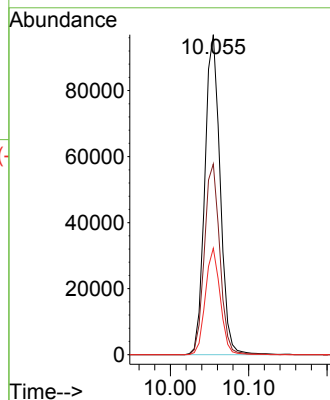
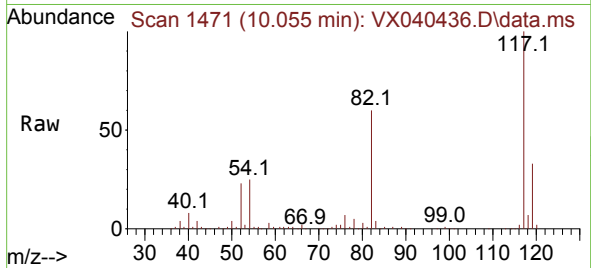




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

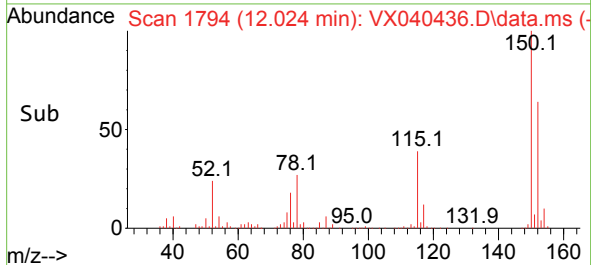
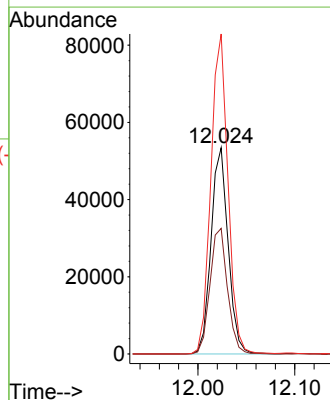
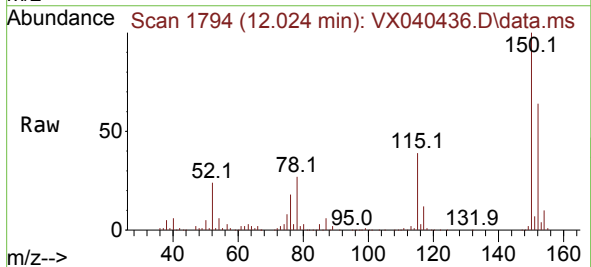
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

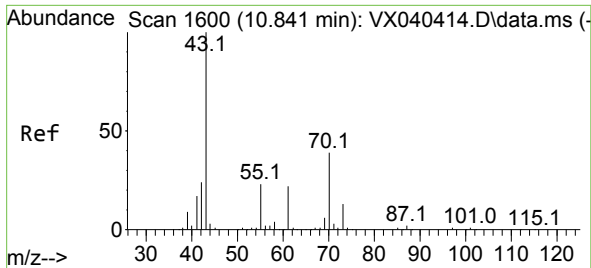
Tgt Ion:117 Resp: 131459  
Ion Ratio Lower Upper  
117 100  
82 59.6 46.2 69.4  
119 33.3 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

Tgt Ion:152 Resp: 65803  
Ion Ratio Lower Upper  
152 100  
115 62.4 43.3 129.9  
150 155.1 0.0 345.0

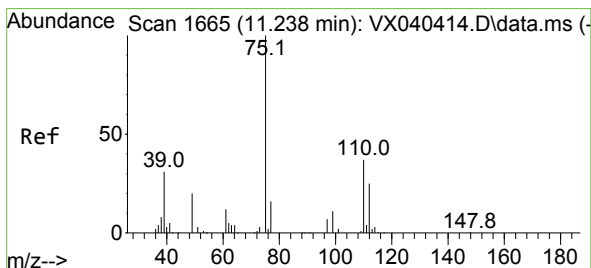
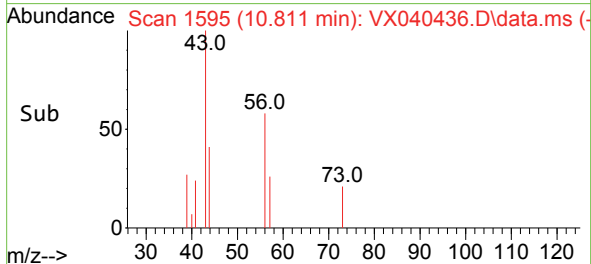
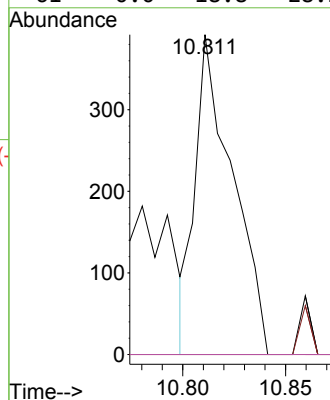
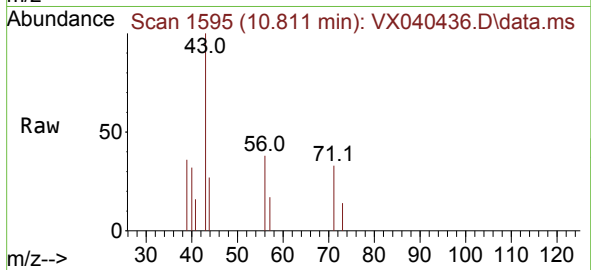




#74  
N-amy1 acetate  
Concen: 0.228 ug/l  
RT: 10.811 min Scan# 1595  
Delta R.T. -0.030 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

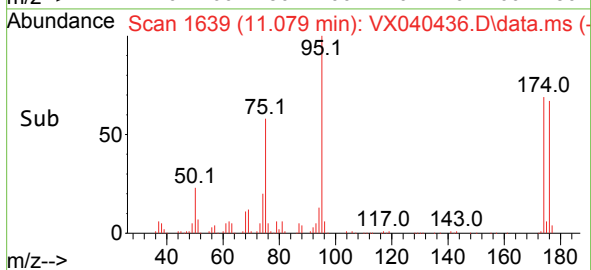
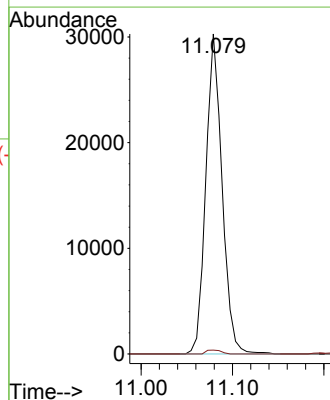
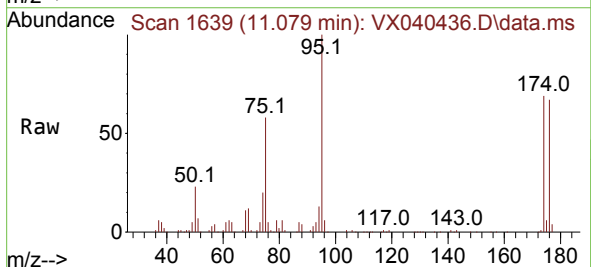
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB159217ZHE#06

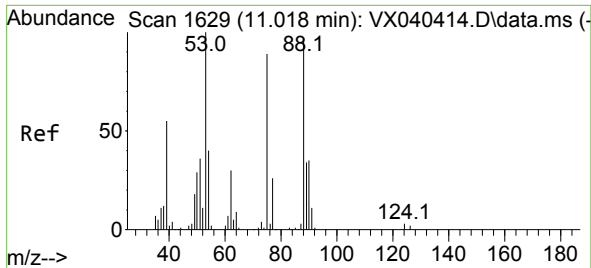
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 492         |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 70          | 0.0   | 32.9 49.3#  |
| 55          | 0.0   | 19.3 28.9#  |
| 61          | 0.0   | 18.8 28.2#  |



#76  
1,2,3-Trichloropropane  
Concen: 25.469 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX040436.D  
Acq: 23 Feb 2024 16:55

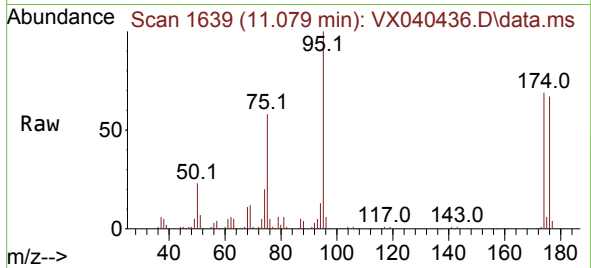
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 75 | Resp: | 37266       |
| Ion         | Ratio | Lower Upper |
| 75          | 100   |             |
| 77          | 1.1   | 19.1 57.5#  |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 88.620 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX040436.D  
 Acq: 23 Feb 2024 16:55

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB159217ZHE#06



Tgt Ion: 75 Resp: 37266  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

