

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081023\  
 Data File : VX036917.D  
 Acq On : 10 Aug 2023 16:55  
 Operator : JC/MD  
 Sample : 03954-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 11 01:48:32 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

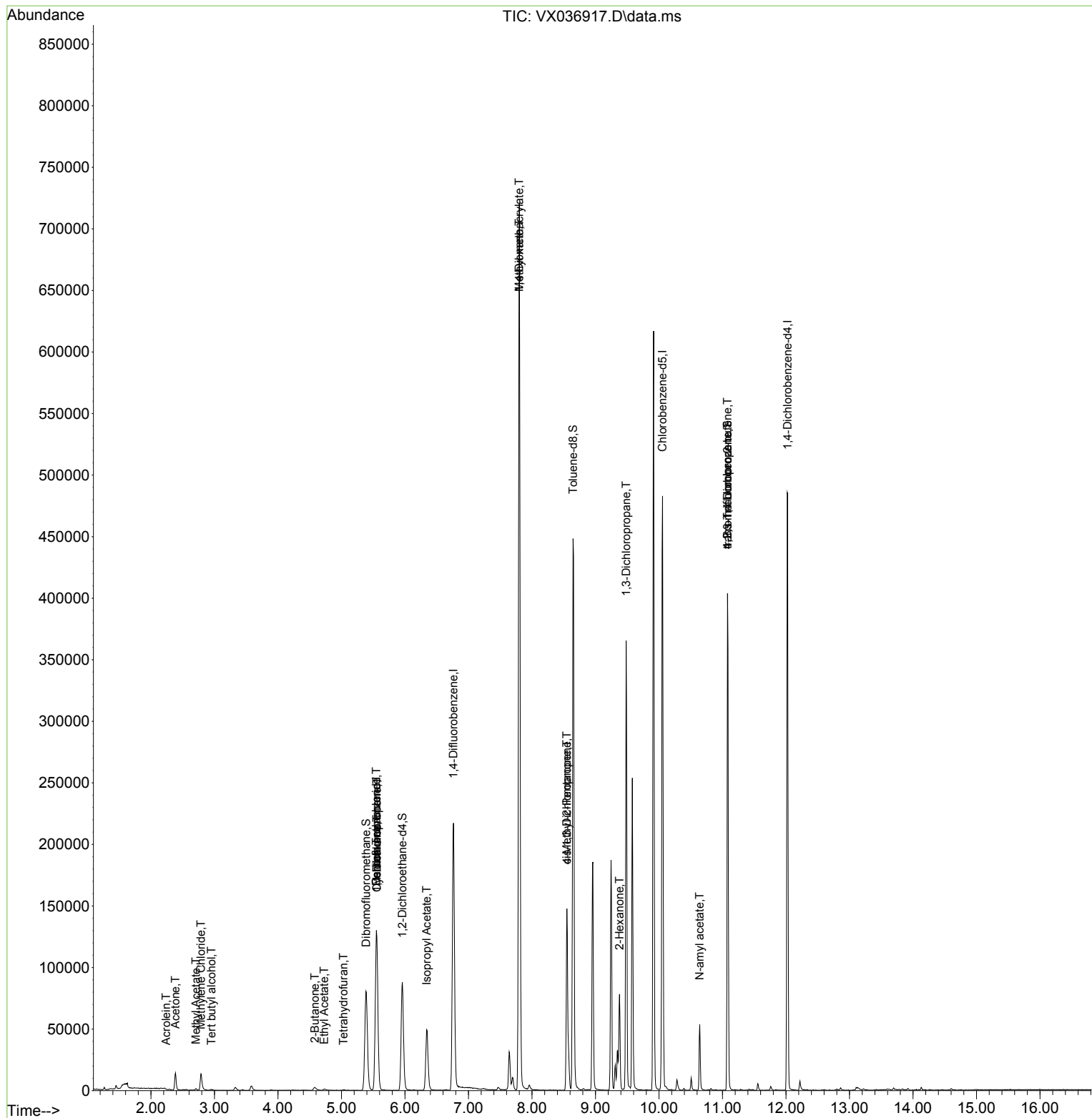
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 119707     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 222160     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 216385     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 103134     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 86421      | 48.791   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 97.580%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 71383      | 46.747   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.500%  |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 272804     | 50.378   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 100.760% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 109627     | 53.659   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 107.320% |        |          |
| Target Compounds              |                |      |            |          |        |          |
|                               |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.953          | 59   | 632        | 1.507    | ug/l # | 78       |
| 13) Acrolein                  | 2.240          | 56   | 106        | 0.443    | ug/l # | 14       |
| 16) Acetone                   | 2.386          | 43   | 14754      | 20.074   | ug/l   | 91       |
| 18) Methyl Acetate            | 2.709          | 43   | 1525       | 0.493    | ug/l   | 96       |
| 20) Methylene Chloride        | 2.788          | 84   | 6967       | 4.262    | ug/l # | 93       |
| 25) 2-Butanone                | 4.581          | 43   | 4724       | 3.961    | ug/l   | 95       |
| 29) Tetrahydrofuran           | 5.032          | 42   | 157        | 0.204    | ug/l # | 34       |
| 31) Cyclohexane               | 5.556          | 56   | 2623       | 1.070    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 9781       | 4.297    | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.727          | 43   | 1887       | 0.733    | ug/l # | 88       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 13153      | 5.436    | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 67776      | 15.284   | ug/l # | 95       |
| 48) Methyl methacrylate       | 7.800          | 41   | 61228      | 29.690   | ug/l # | 48       |
| 49) 1,4-Dioxane               | 7.800          | 88   | 102        | 2.448    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 61825      | 25.194   | ug/l # | 37       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 25220      | 8.326    | ug/l # | 54       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 3193       | 1.099    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.379          | 43   | 58088      | 31.895   | ug/l # | 26       |
| 74) N-amyl acetate            | 10.640         | 43   | 12658      | 3.180    | ug/l # | 53       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 56561      | 23.316   | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 56561      | 52.848   | ug/l # | 5        |
| -----                         |                |      |            |          |        |          |

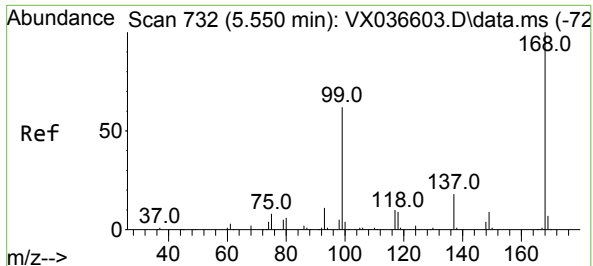
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration

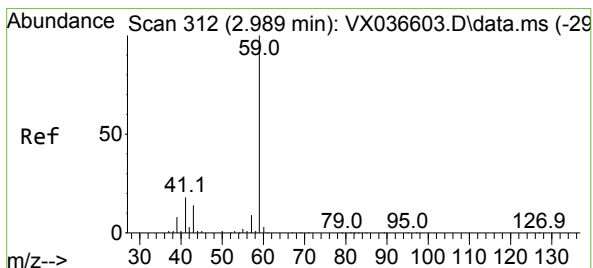
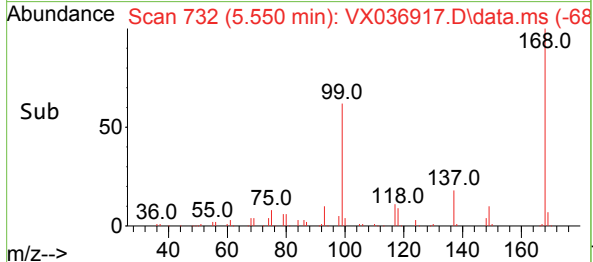
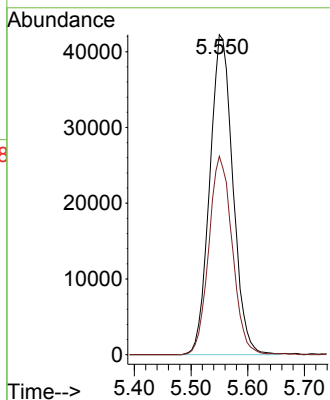
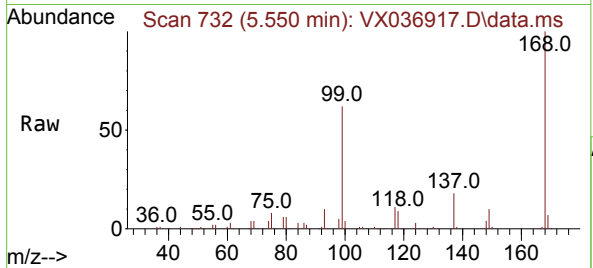




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

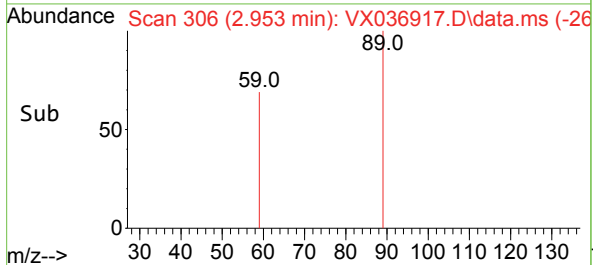
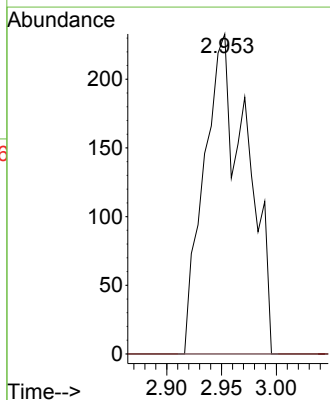
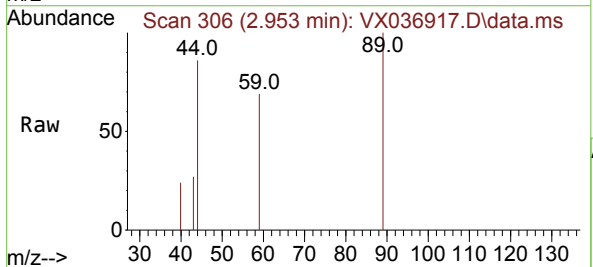
Instrument :  
MSVOA\_X  
ClientSampleId :

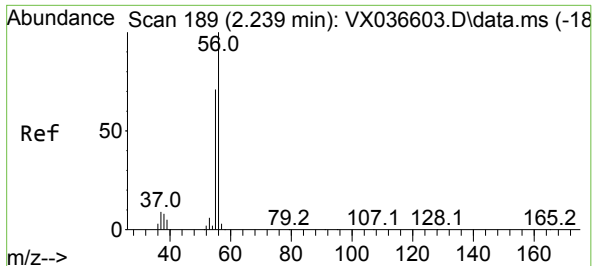
Tgt Ion:168 Resp: 119707  
Ion Ratio Lower Upper  
168 100  
99 62.0 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 1.507 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.036 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

Tgt Ion: 59 Resp: 632  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.443 ug/l

RT: 2.240 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036917.D

Acq: 10 Aug 2023 16:55

Instrument :

MSVOA\_X

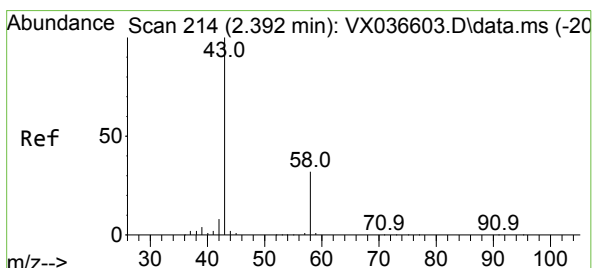
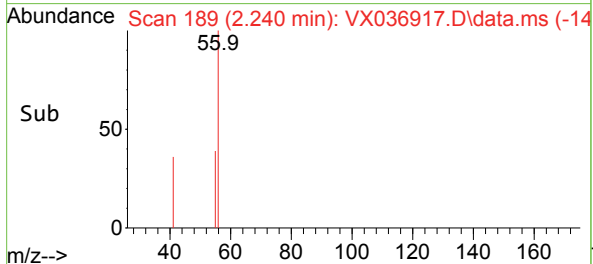
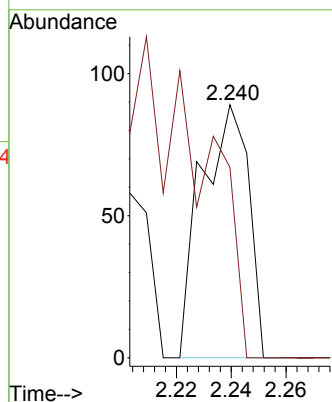
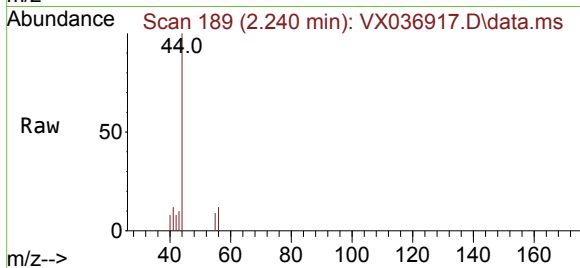
ClientSampleId :

Tgt Ion: 56 Resp: 106

Ion Ratio Lower Upper

56 100

55 0.0 57.1 85.7#



#16

Acetone

Concen: 20.074 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX036917.D

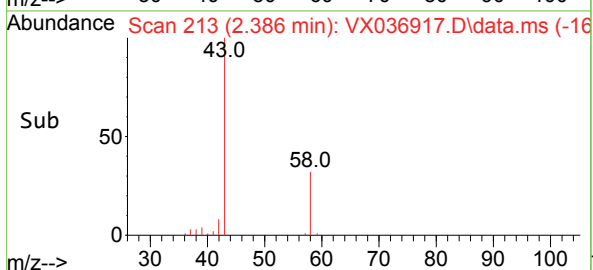
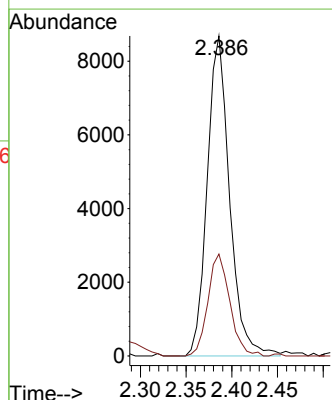
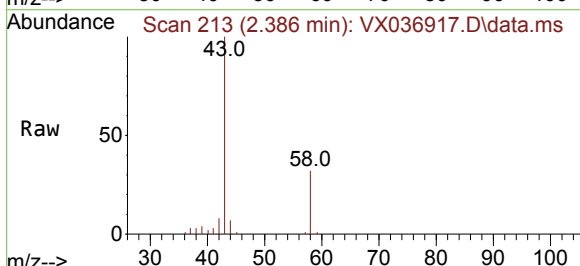
Acq: 10 Aug 2023 16:55

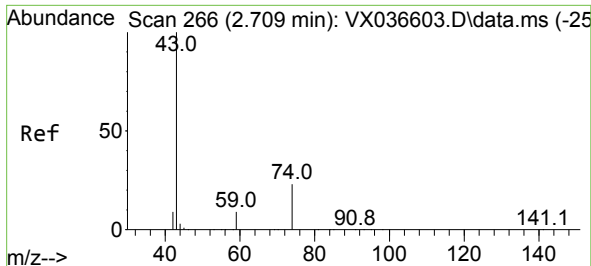
Tgt Ion: 43 Resp: 14754

Ion Ratio Lower Upper

43 100

58 31.8 21.9 32.9

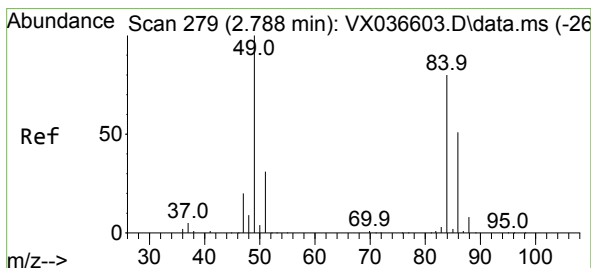
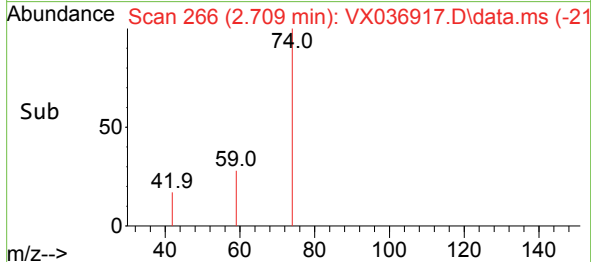
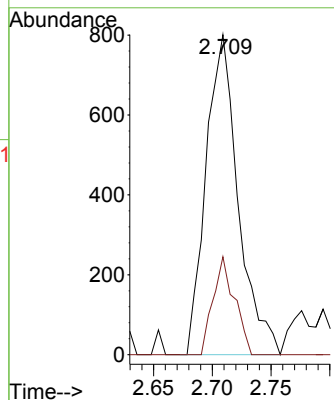
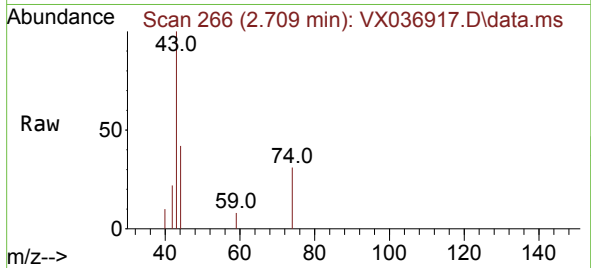




#18  
Methyl Acetate  
Concen: 0.493 ug/l  
RT: 2.709 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

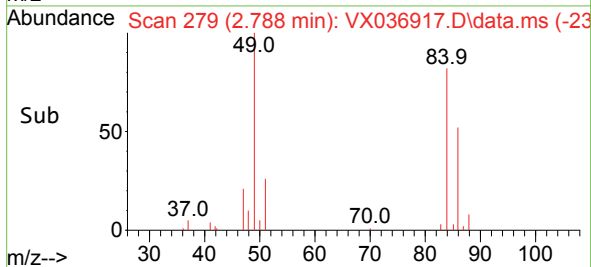
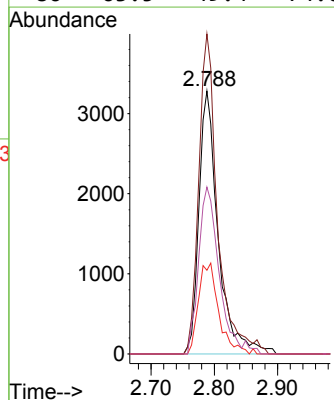
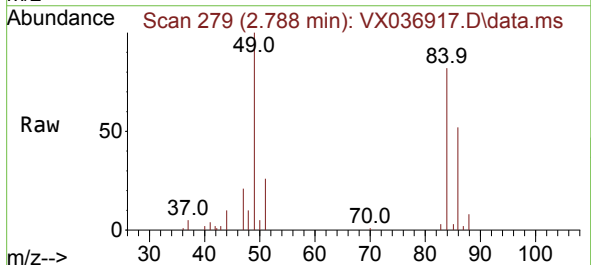
Instrument :  
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ClientSampleId :

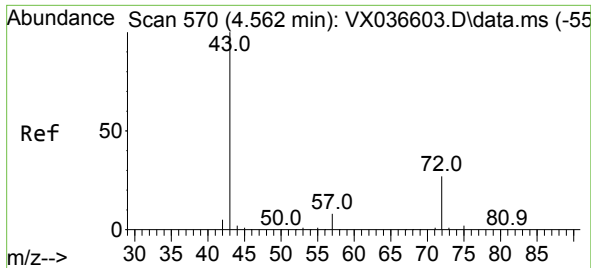
Tgt Ion: 43 Resp: 1525  
Ion Ratio Lower Upper  
43 100  
74 20.4 17.8 26.8



#20  
Methylene Chloride  
Concen: 4.262 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

Tgt Ion: 84 Resp: 6967  
Ion Ratio Lower Upper  
84 100  
49 121.7 103.6 155.4  
51 31.8 33.8 50.6#  
86 63.5 49.4 74.0

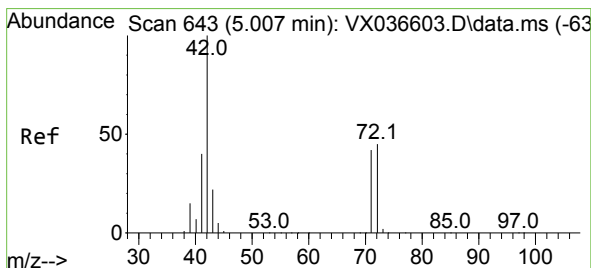
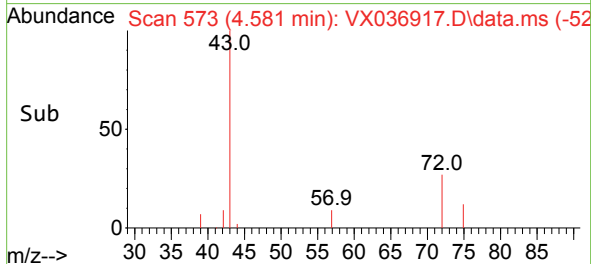
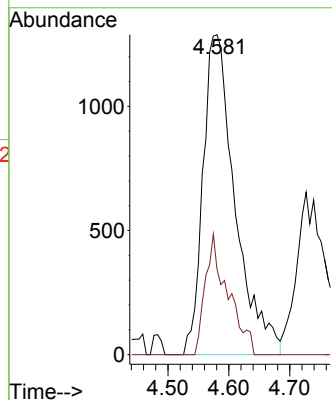
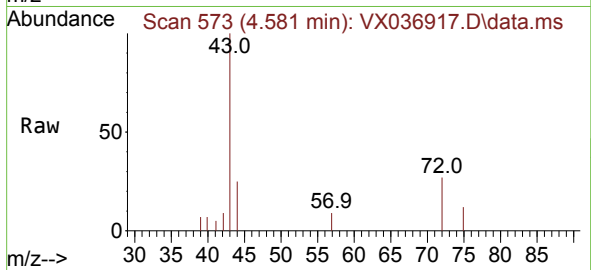




#25  
2-Butanone  
Concen: 3.961 ug/l  
RT: 4.581 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

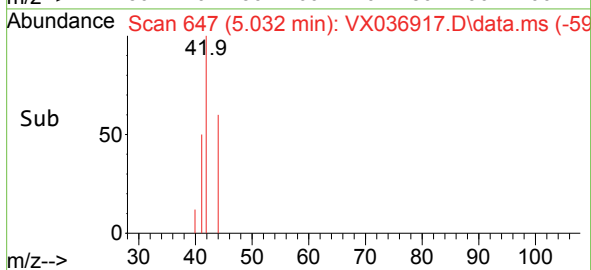
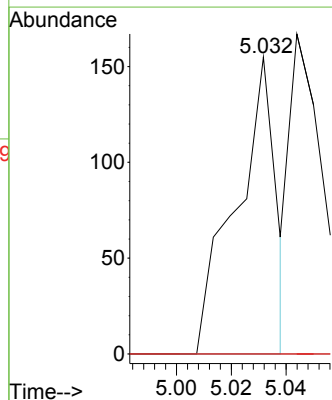
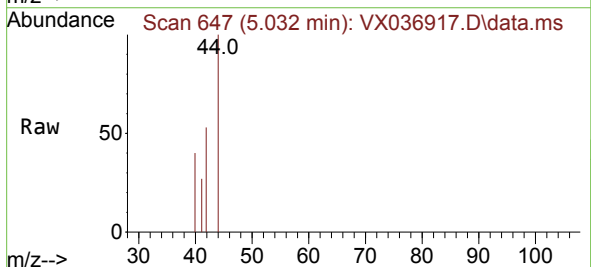
Instrument :  
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ClientSampleId :

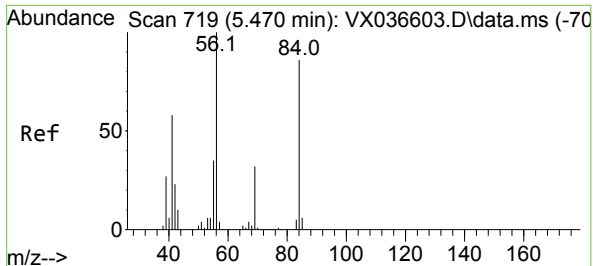
Tgt Ion: 43 Resp: 4724  
Ion Ratio Lower Upper  
43 100  
72 26.7 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 0.204 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.025 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

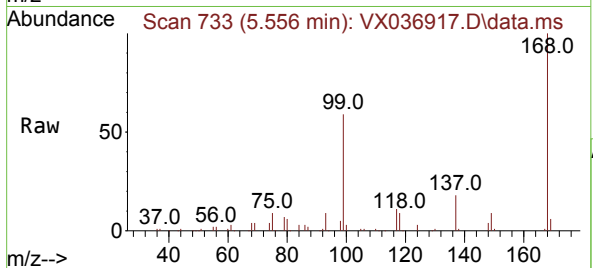
Tgt Ion: 42 Resp: 157  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 0.0 32.2 48.2#



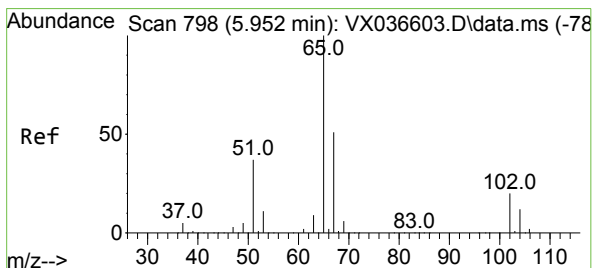
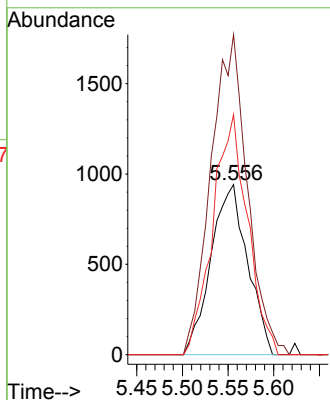
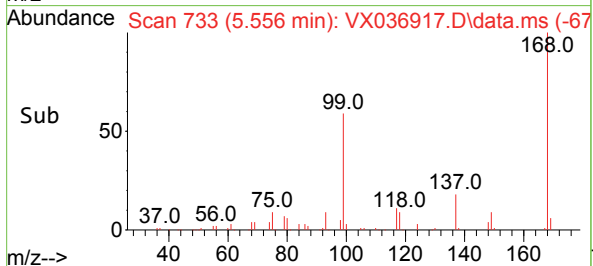


#31  
Cyclohexane  
Concen: 1.070 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.086 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :

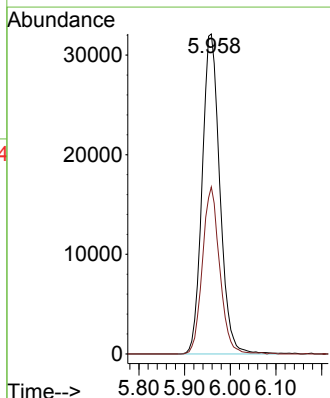
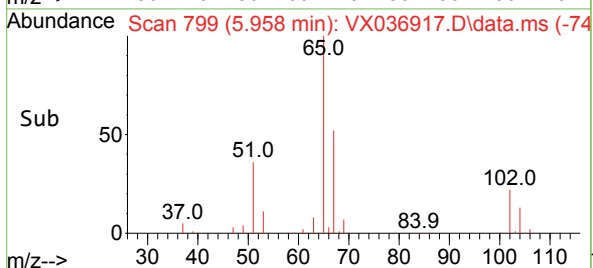
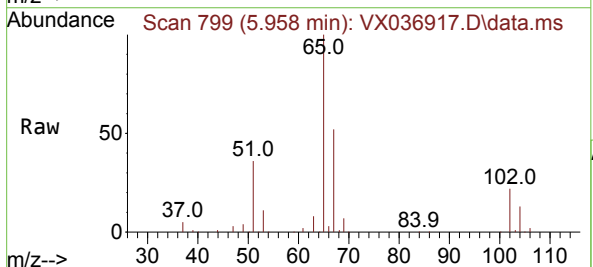


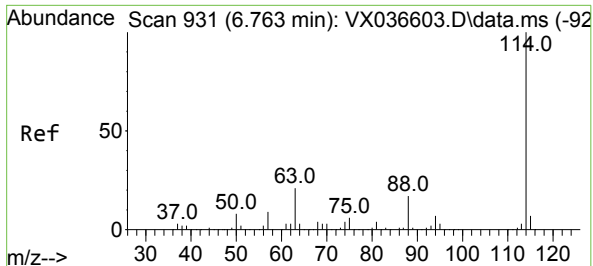
Tgt Ion: 56 Resp: 2623  
Ion Ratio Lower Upper  
56 100  
69 188.2 23.4 35.2#  
84 141.2 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 48.791 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.006 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

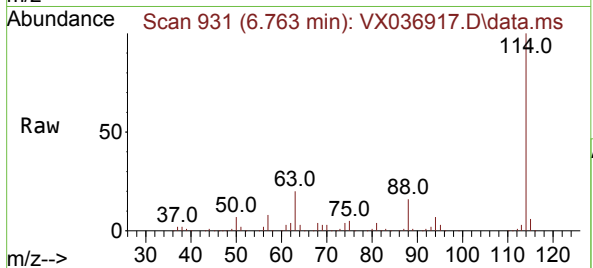
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Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 100.2



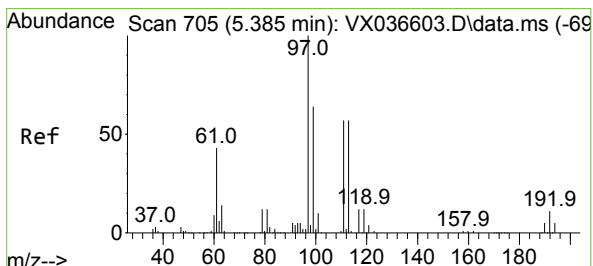
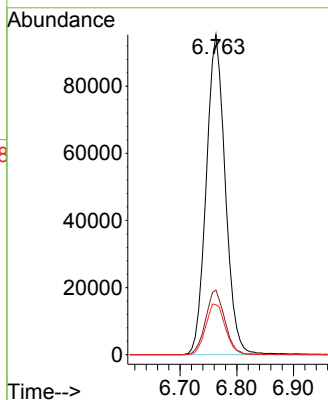
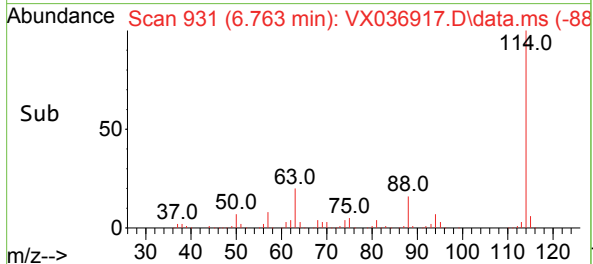


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 911  
 Delta R.T. 0.000 min  
 Lab File: VX036917.D  
 Acq: 10 Aug 2023 16:55

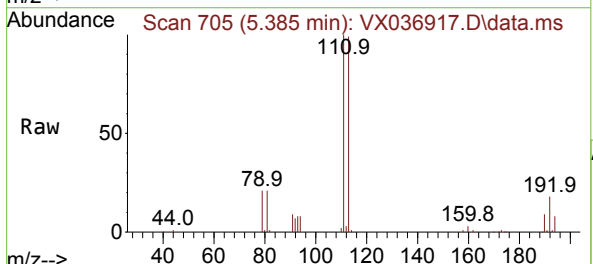
Instrument :  
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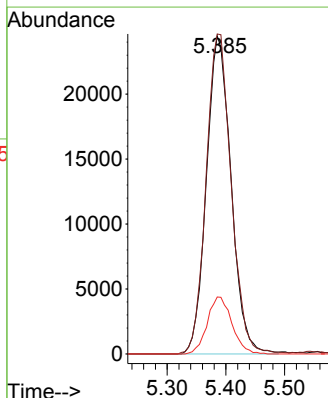
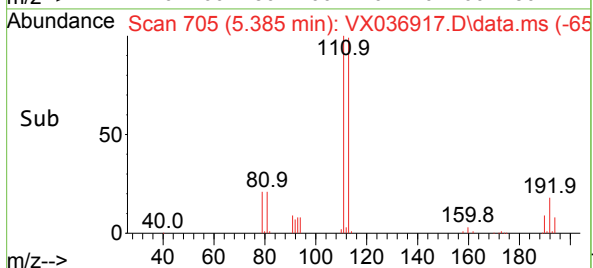
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 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 45.0  
 88 15.6 0.0 36.6

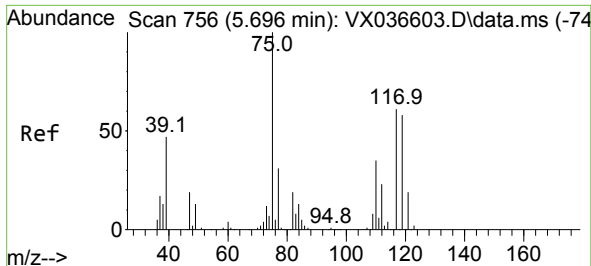


#35  
 Dibromofluoromethane  
 Concen: 46.747 ug/l  
 RT: 5.385 min Scan# 705  
 Delta R.T. 0.000 min  
 Lab File: VX036917.D  
 Acq: 10 Aug 2023 16:55



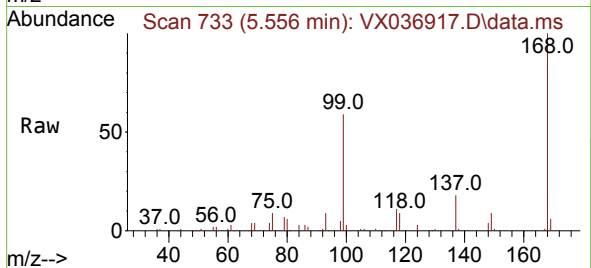
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 Ion Ratio Lower Upper  
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 111 102.1 82.9 124.3  
 192 17.9 13.3 19.9



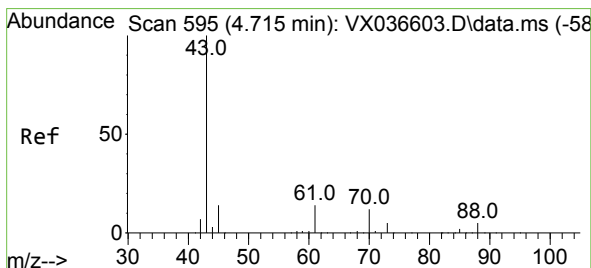
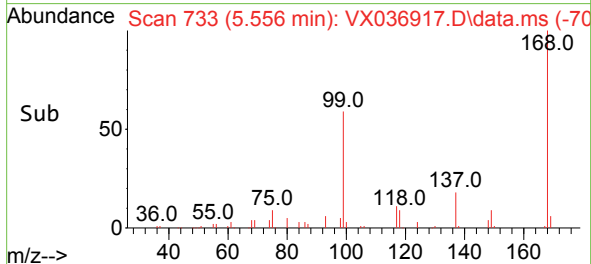
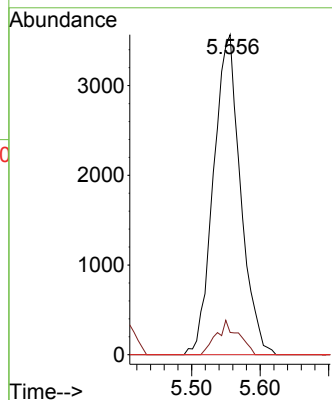


#36  
1,1-Dichloropropene  
Concen: 4.297 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :

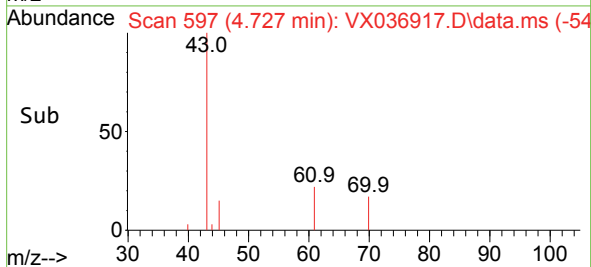
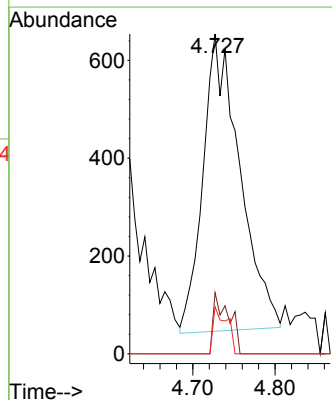
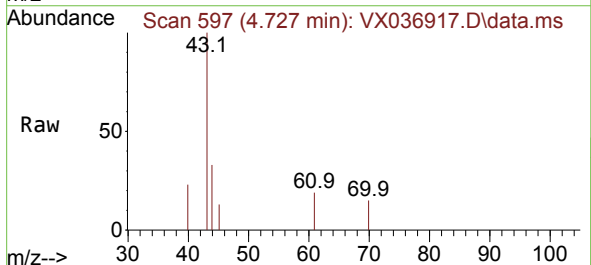


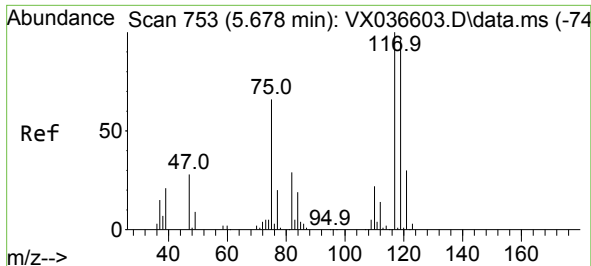
Tgt Ion: 75 Resp: 9781  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 0.733 ug/l  
RT: 4.727 min Scan# 597  
Delta R.T. 0.012 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

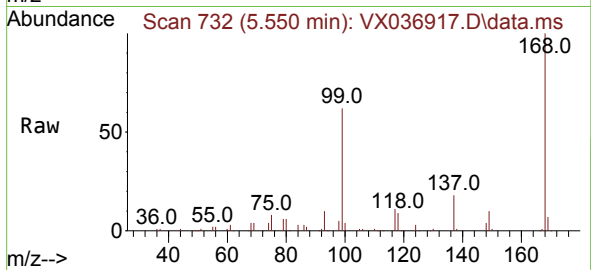
Tgt Ion: 43 Resp: 1887  
Ion Ratio Lower Upper  
43 100  
61 8.7 10.6 16.0#  
70 5.9 8.3 12.5#



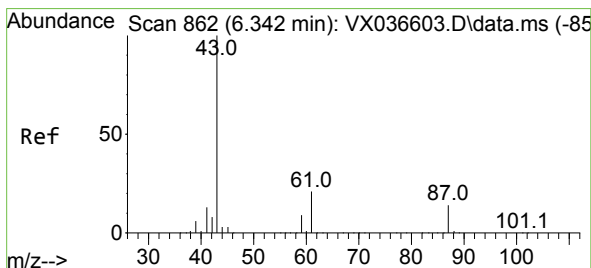
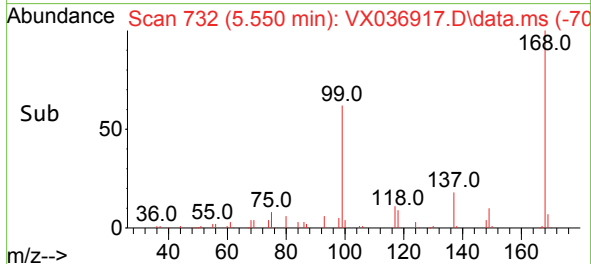
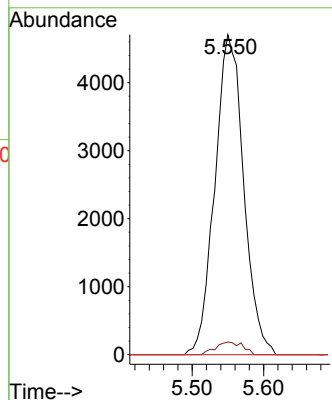


#38  
Carbon Tetrachloride  
Concen: 5.436 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

Instrument :  
MSVOA\_X  
ClientSampleId :

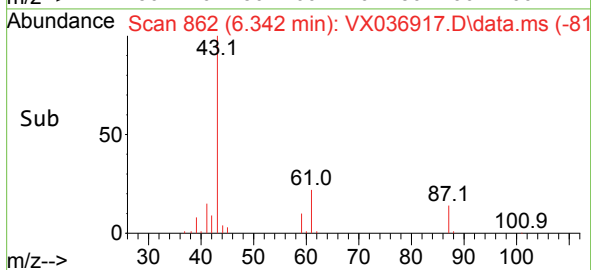
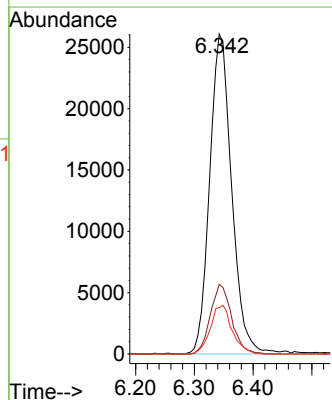
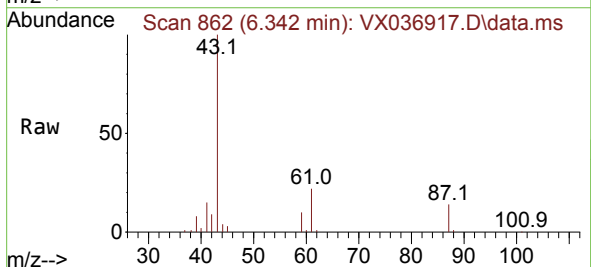


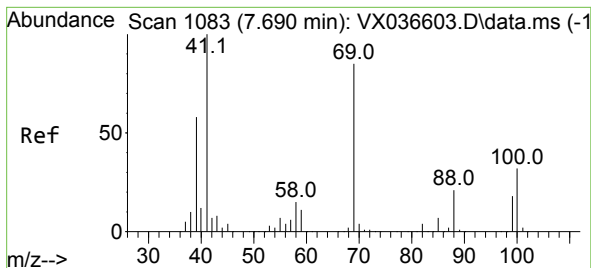
Tgt Ion:117 Resp: 13153  
Ion Ratio Lower Upper  
117 100  
119 4.0 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 15.284 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX036917.D  
Acq: 10 Aug 2023 16:55

Tgt Ion: 43 Resp: 67776  
Ion Ratio Lower Upper  
43 100  
61 21.0 15.2 22.8  
87 15.0 9.8 14.6#





#48

Methyl methacrylate

Concen: 29.690 ug/l

RT: 7.800 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX036917.D

Acq: 10 Aug 2023 16:55

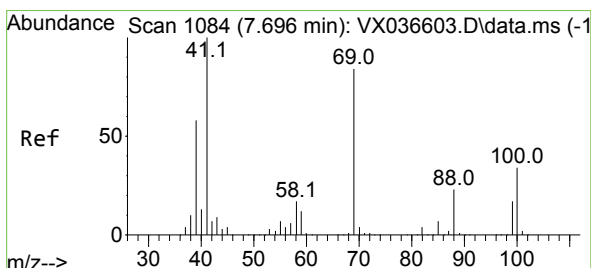
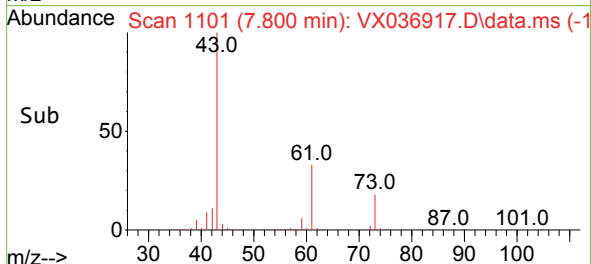
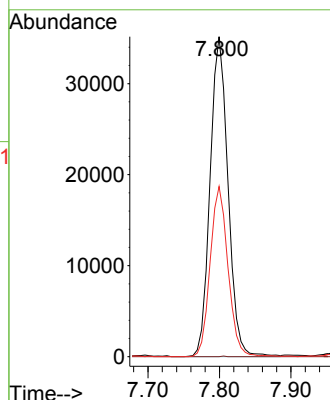
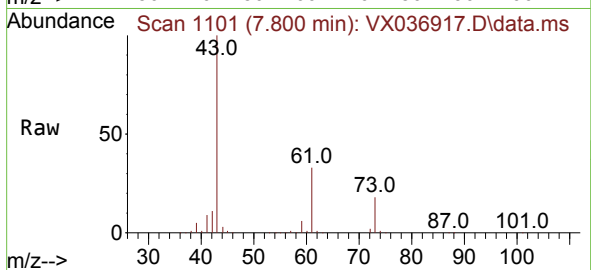
Instrument :

MSVOA\_X

ClientSampleId :

Tgt Ion: 41 Resp: 61228

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 69  | 0.0   | 59.2  | 88.8# |
| 39  | 53.0  | 47.7  | 71.5  |



#49

1,4-Dioxane

Concen: 2.448 ug/l

RT: 7.800 min Scan# 1101

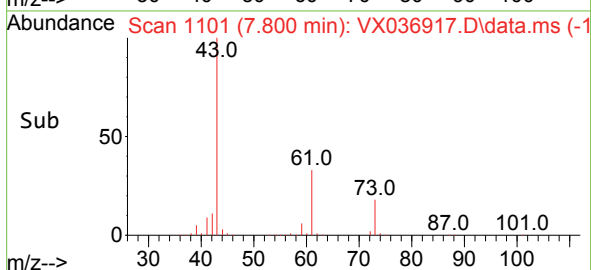
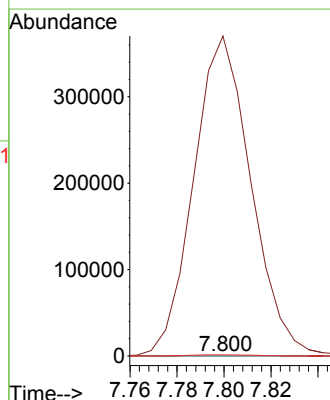
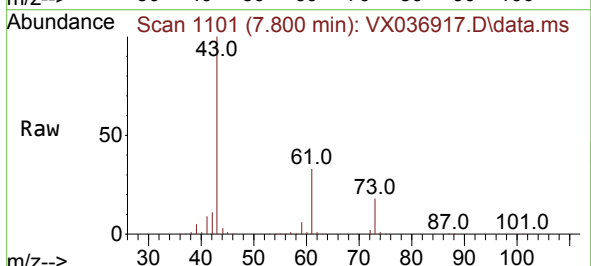
Delta R.T. 0.104 min

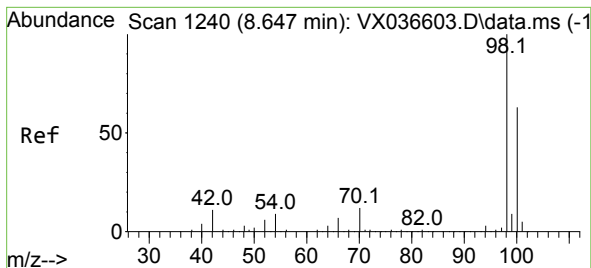
Lab File: VX036917.D

Acq: 10 Aug 2023 16:55

Tgt Ion: 88 Resp: 102

| Ion | Ratio    | Lower | Upper |
|-----|----------|-------|-------|
| 88  | 100      |       |       |
| 43  | 622077.5 | 0.0   | 0.0#  |
| 58  | 2529.4   | 60.1  | 90.1# |





#50

Toluene-d8

Concen: 50.378 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX036917.D

Acq: 10 Aug 2023 16:55

Instrument :

MSVOA\_X

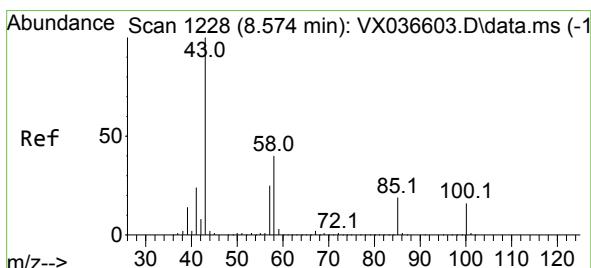
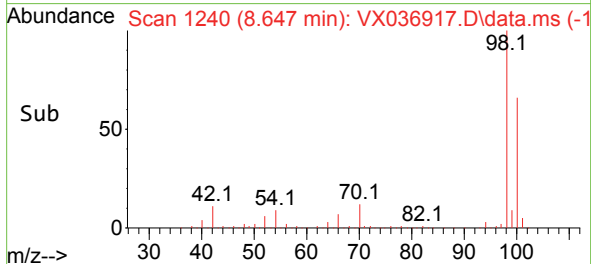
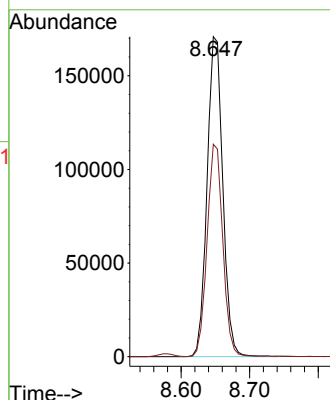
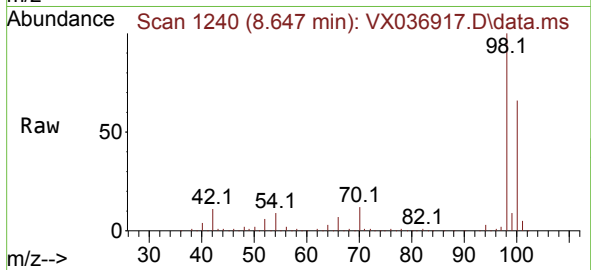
ClientSampleId :

Tgt Ion: 98 Resp: 272804

Ion Ratio Lower Upper

98 100

100 66.2 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 25.194 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.024 min

Lab File: VX036917.D

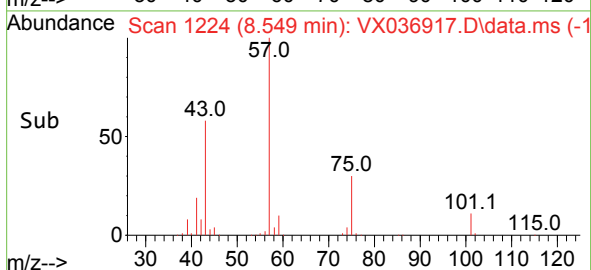
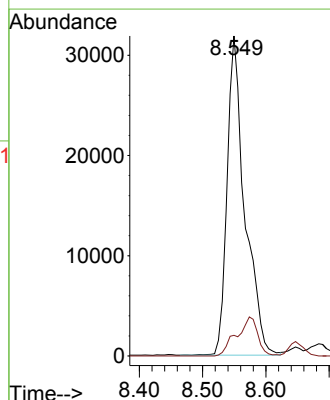
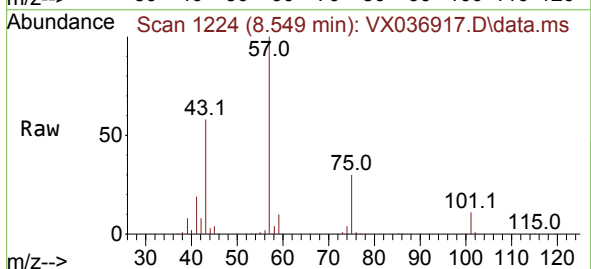
Acq: 10 Aug 2023 16:55

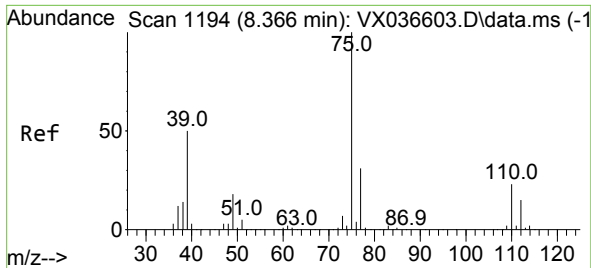
Tgt Ion: 43 Resp: 61825

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#

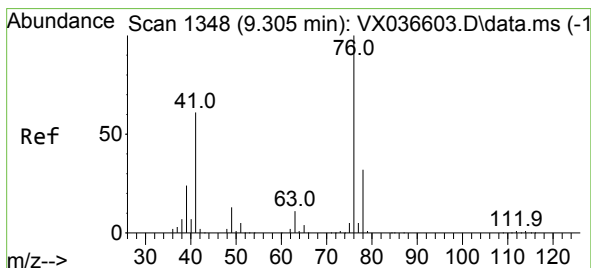
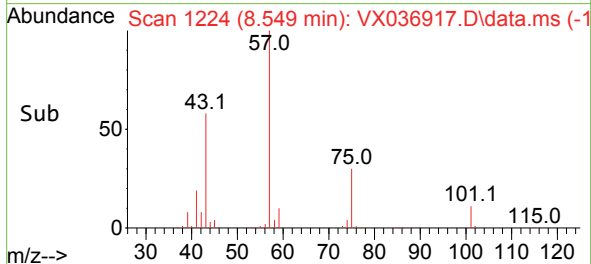
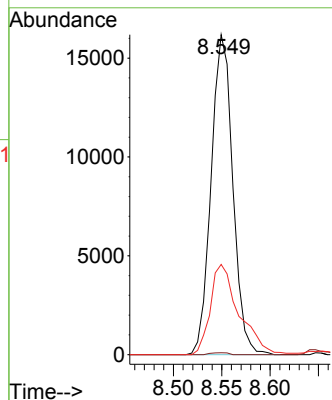
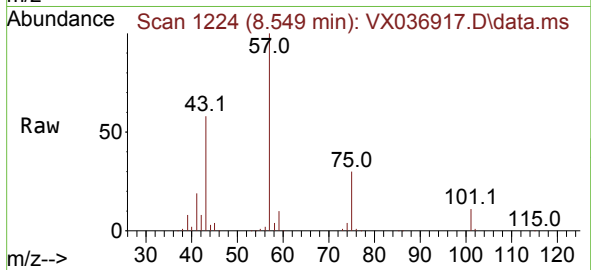




#54  
 cis-1,3-Dichloropropene  
 Concen: 8.326 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX036917.D  
 Acq: 10 Aug 2023 16:55

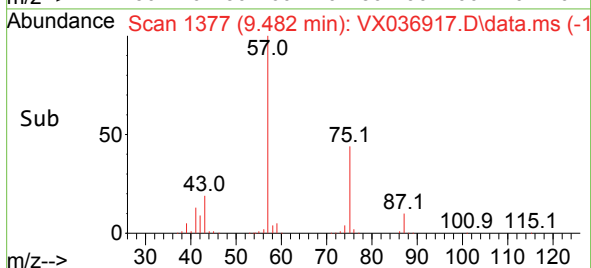
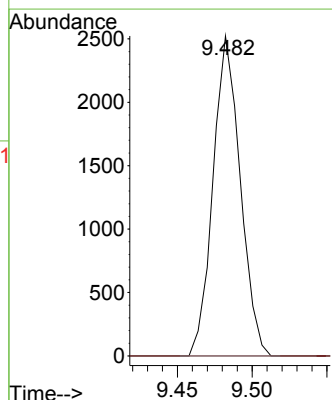
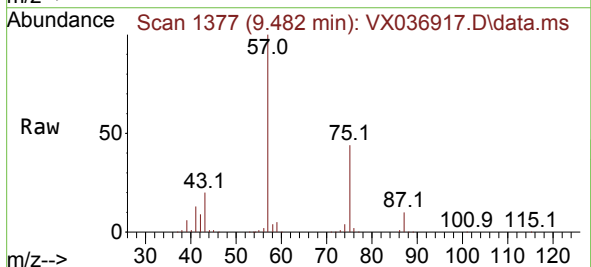
Instrument :  
 MSVOA\_X  
 ClientSampleId :

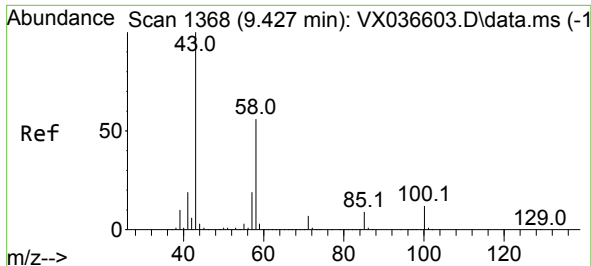
Tgt Ion: 75 Resp: 25220  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 25.3 37.9#  
 39 28.2 46.7 70.1#



#57  
 1,3-Dichloropropane  
 Concen: 1.099 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX036917.D  
 Acq: 10 Aug 2023 16:55

Tgt Ion: 76 Resp: 3193  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 31.895 ug/l

RT: 9.379 min Scan# 11

Delta R.T. -0.049 min

Lab File: VX036917.D

Acq: 10 Aug 2023 16:55

Instrument :

MSVOA\_X

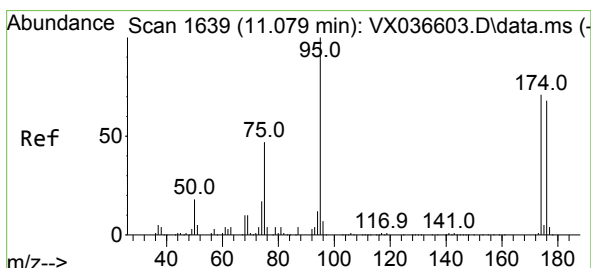
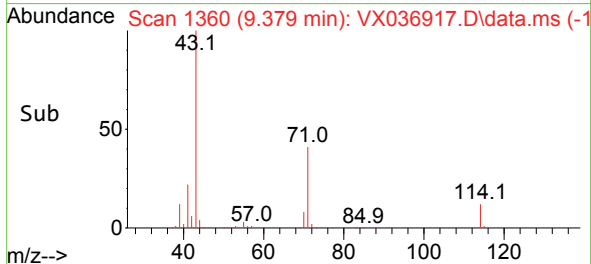
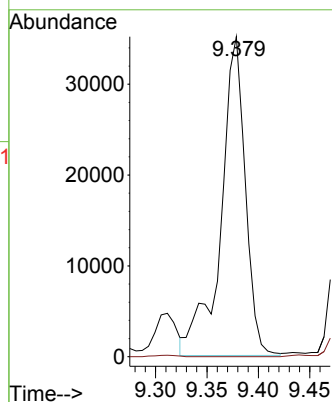
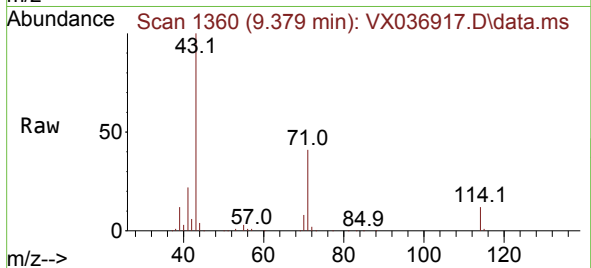
ClientSampleId :

Tgt Ion: 43 Resp: 58088

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#



#62

4-Bromofluorobenzene

Concen: 53.659 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX036917.D

Acq: 10 Aug 2023 16:55

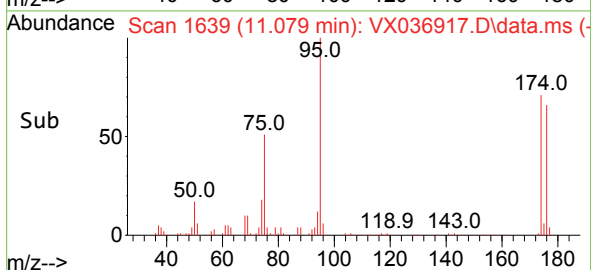
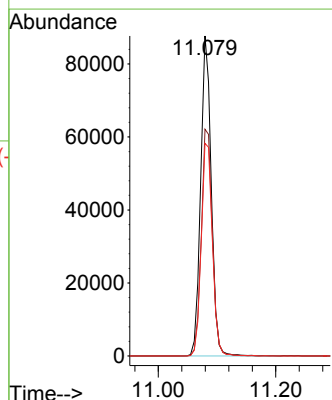
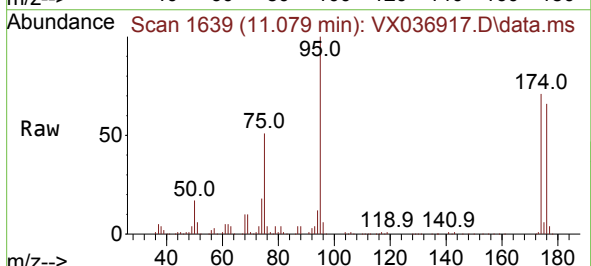
Tgt Ion: 95 Resp: 109627

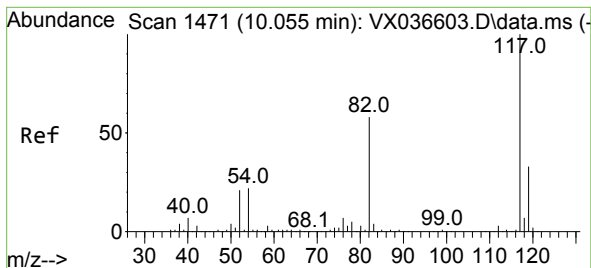
Ion Ratio Lower Upper

95 100

174 74.1 0.0 135.6

176 70.0 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: VX036917.D

Acq: 10 Aug 2023 16:55

Instrument :

MSVOA\_X

ClientSampleId :

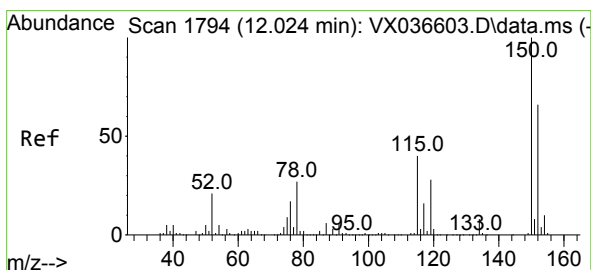
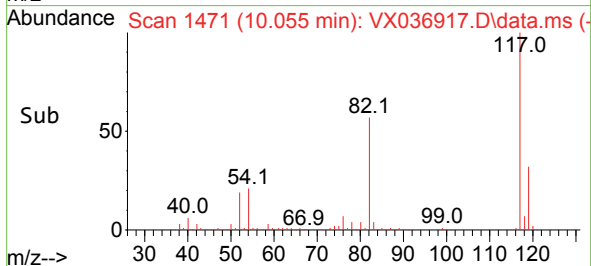
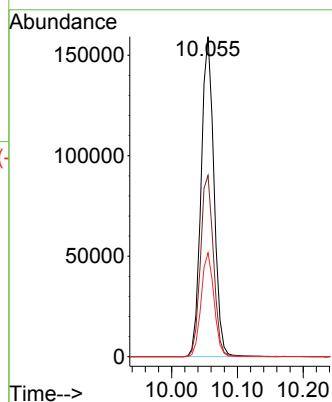
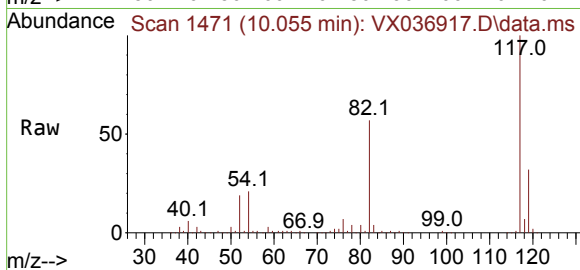
Tgt Ion:117 Resp: 216385

Ion Ratio Lower Upper

117 100

82 56.7 46.2 69.4

119 32.4 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: VX036917.D

Acq: 10 Aug 2023 16:55

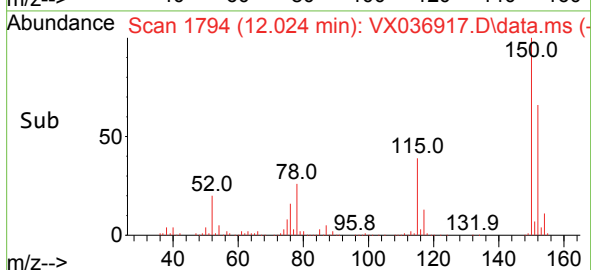
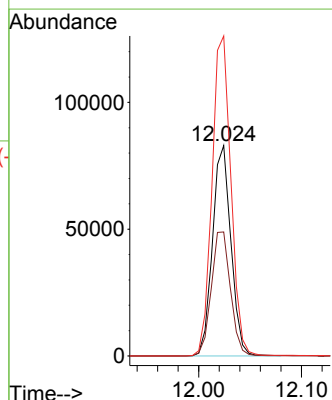
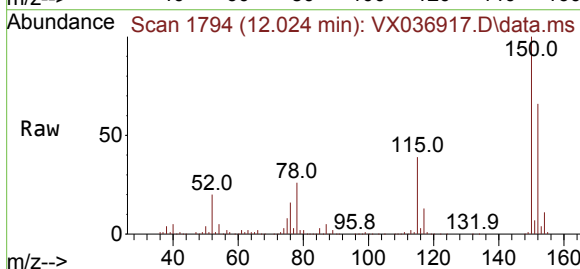
Tgt Ion:152 Resp: 103134

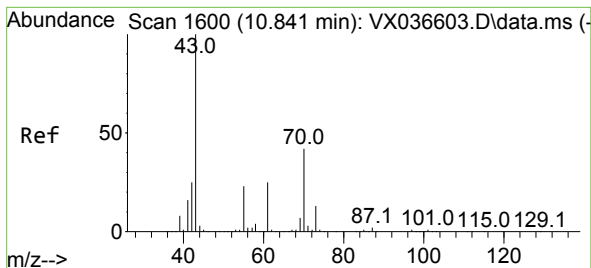
Ion Ratio Lower Upper

152 100

115 61.6 43.3 129.9

150 156.4 0.0 345.0





#74

N-amy1 acetate

Concen: 3.180 ug/l

RT: 10.640 min Scan# 1

Delta R.T. -0.201 min

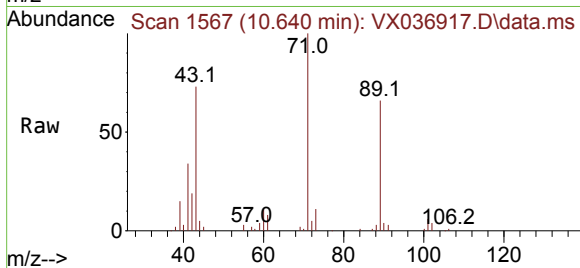
Lab File: VX036917.D

Acq: 10 Aug 2023 16:55

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 43 Resp: 12658

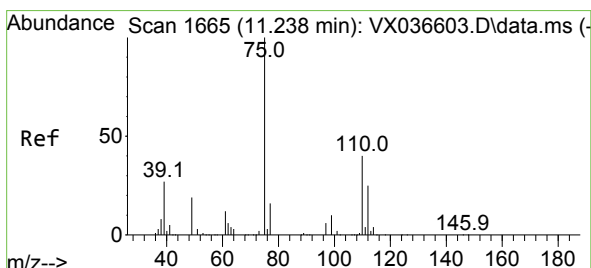
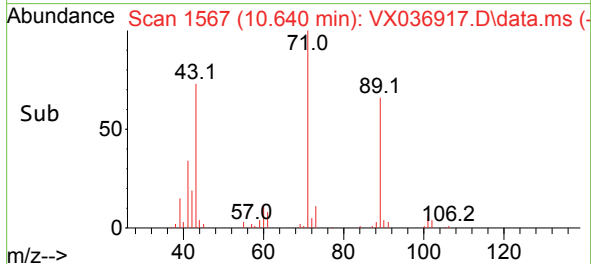
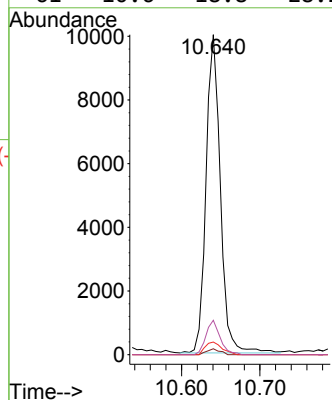
Ion Ratio Lower Upper

43 100

70 1.7 32.9 49.3#

55 4.6 19.3 28.9#

61 10.6 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 23.316 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX036917.D

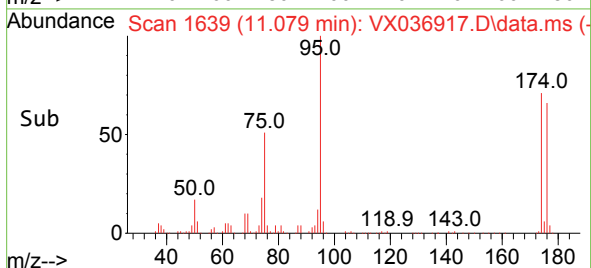
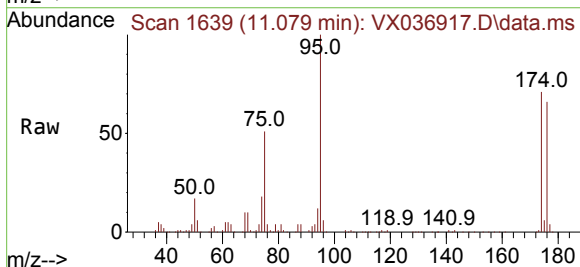
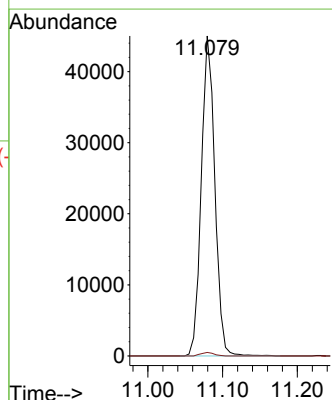
Acq: 10 Aug 2023 16:55

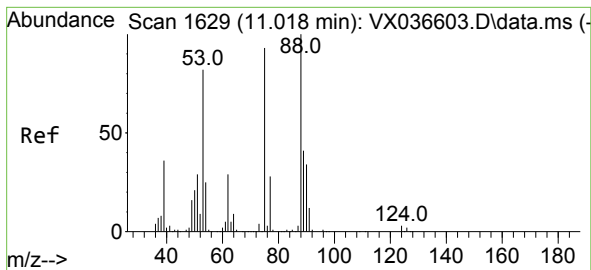
Tgt Ion: 75 Resp: 56561

Ion Ratio Lower Upper

75 100

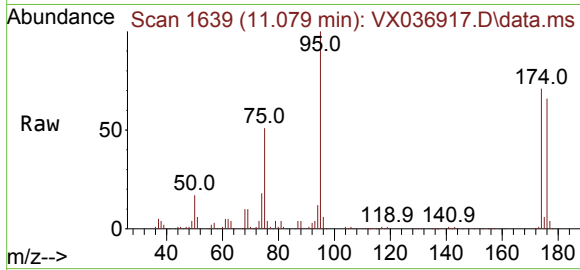
77 1.1 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 52.848 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX036917.D  
 Acq: 10 Aug 2023 16:55

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 56561  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.1 36.9 55.3#

