

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082323\  
 Data File : VX037186.D  
 Acq On : 23 Aug 2023 16:17  
 Operator : JC/MD  
 Sample : 04025-05DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 24 05:34:15 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

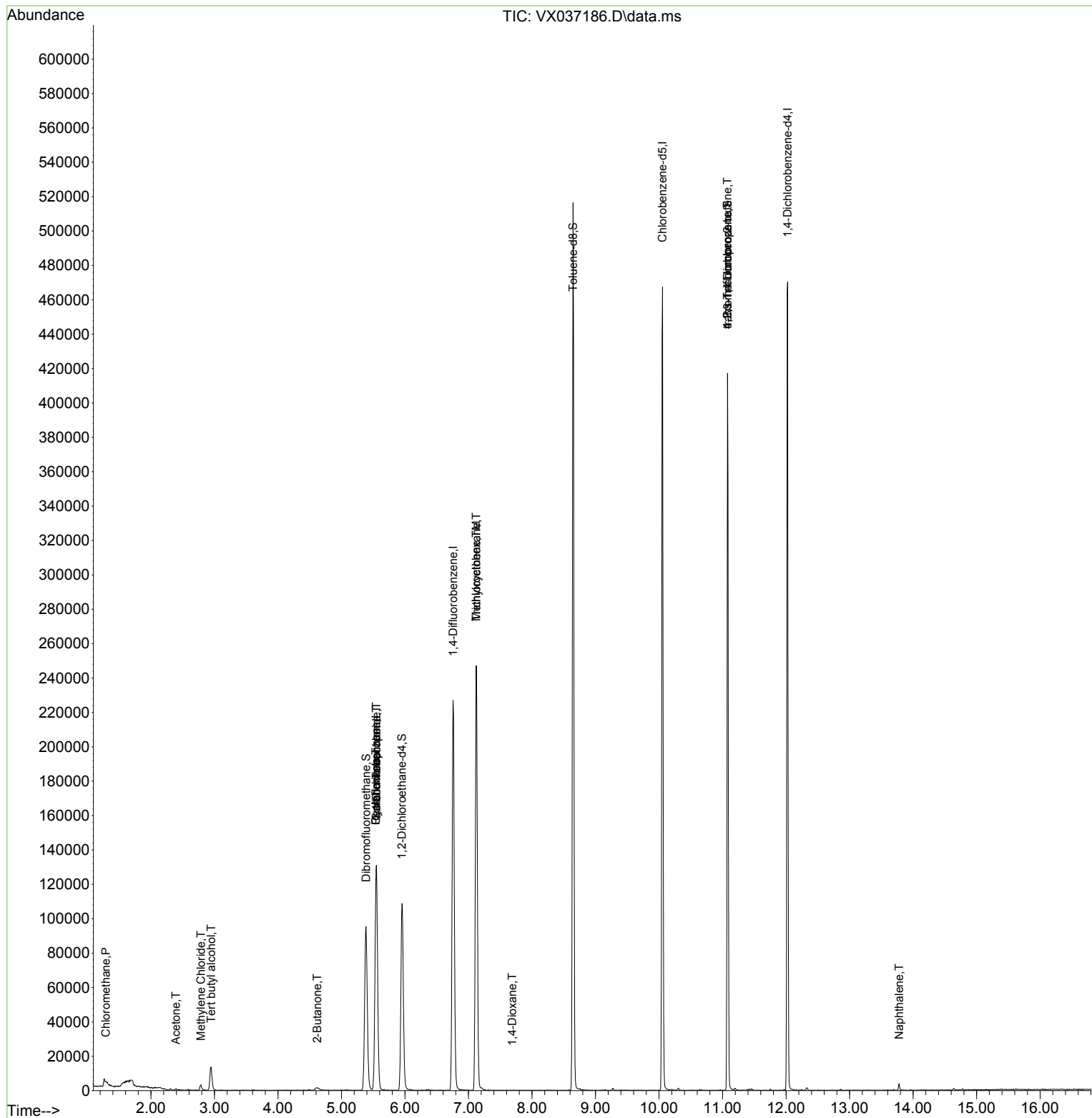
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) Pentafluorobenzene         | 5.544  | 168   | 121987   | 50.000   | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 238099   | 50.000   | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 217351   | 50.000   | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 97760    | 50.000   | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 111602   | 63.459   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 126.920%# |
| 35) Dibromofluoromethane      | 5.385  | 113   | 84595    | 53.647   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 107.300%  |
| 50) Toluene-d8                | 8.647  | 98    | 302363   | 52.861   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 105.720%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 113775   | 50.615   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 101.240%  |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 3) Chloromethane              | 1.288  | 50    | 371      | 0.299    | ug/l # | 87        |
| 11) Tert butyl alcohol        | 2.947  | 59    | 8634     | 20.929   | ug/l # | 79        |
| 16) Acetone                   | 2.392  | 43    | 796      | 1.157    | ug/l   | 96        |
| 20) Methylene Chloride        | 2.788  | 84    | 1729     | 1.124    | ug/l # | 83        |
| 25) 2-Butanone                | 4.617  | 43    | 257      | 0.248    | ug/l # | 51        |
| 31) Cyclohexane               | 5.544  | 56    | 2343     | 1.185    | ug/l # | 1         |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 9827     | 4.386    | ug/l # | 51        |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 13011    | 5.346    | ug/l # | 16        |
| 39) Methylcyclohexane         | 7.123  | 83    | 1119     | 0.475    | ug/l # | 1         |
| 44) Trichloroethene           | 7.123  | 130   | 98113    | 53.852   | ug/l   | 99        |
| 49) 1,4-Dioxane               | 7.690  | 88    | 19       | 0.398    | ug/l # | 12        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 58532    | 28.114   | ug/l # | 38        |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 58532    | 78.523   | ug/l # | 5         |
| 95) Naphthalene               | 13.780 | 128   | 3154     | 0.387    | ug/l # | 93        |
| -----                         |        |       |          |          |        |           |

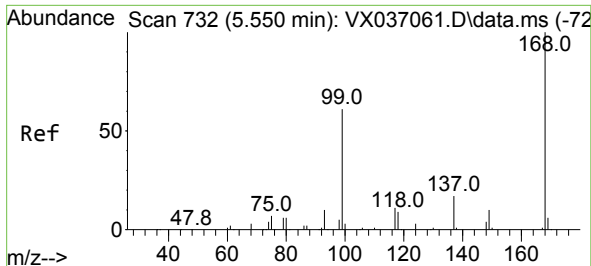
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082323\  
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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Aug 24 05:34:15 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration

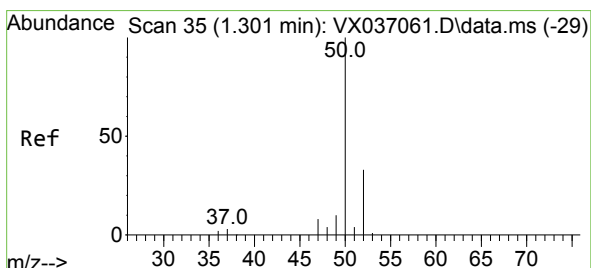
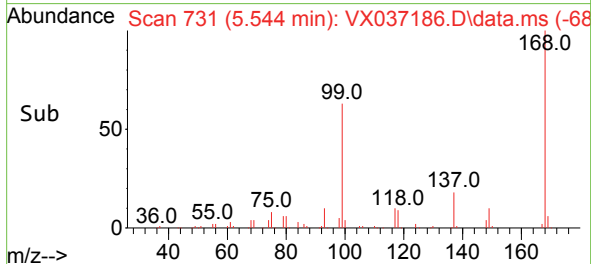
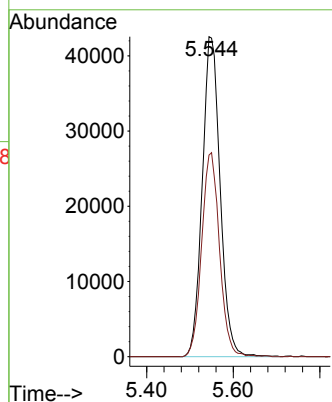
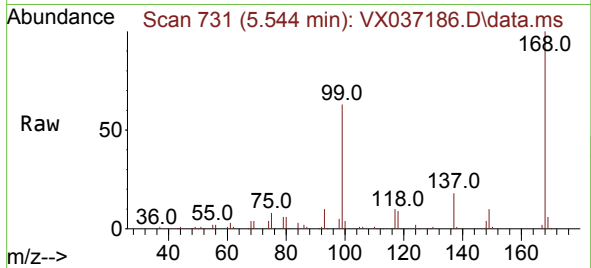




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

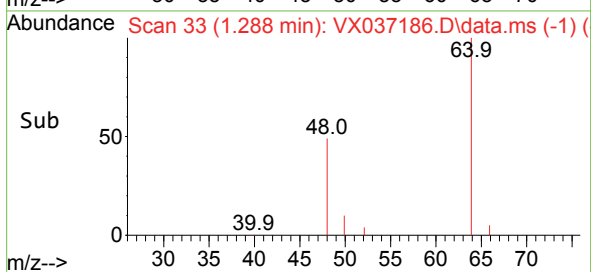
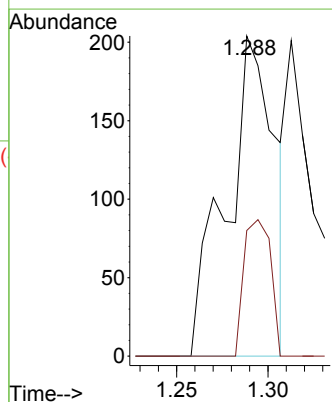
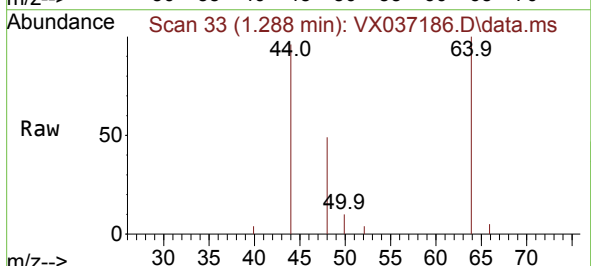
Instrument :  
MSVOA\_X  
ClientSampleId :

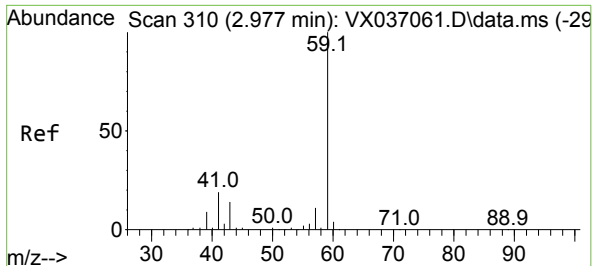
Tgt Ion:168 Resp: 121987  
Ion Ratio Lower Upper  
168 100  
99 63.0 56.6 85.0



#3  
Chloromethane  
Concen: 0.299 ug/l  
RT: 1.288 min Scan# 33  
Delta R.T. -0.012 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Tgt Ion: 50 Resp: 371  
Ion Ratio Lower Upper  
50 100  
52 39.2 25.5 38.3#





#11

Tert butyl alcohol

Concen: 20.929 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.030 min

Lab File: VX037186.D

Acq: 23 Aug 2023 16:17

Instrument :

MSVOA\_X

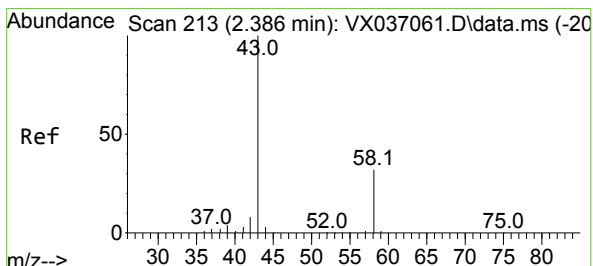
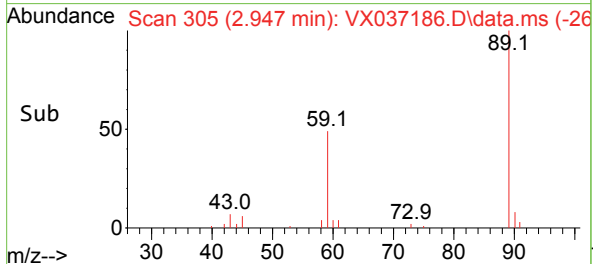
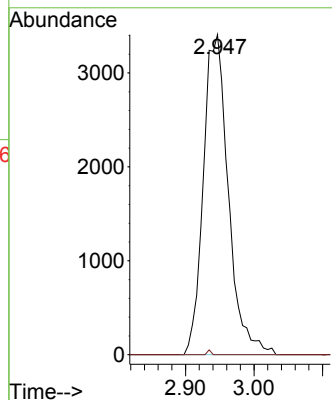
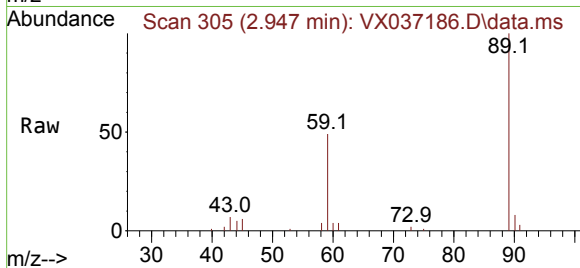
ClientSampleId :

Tgt Ion: 59 Resp: 8634

Ion Ratio Lower Upper

59 100

57 0.2 6.0 9.0#



#16

Acetone

Concen: 1.157 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX037186.D

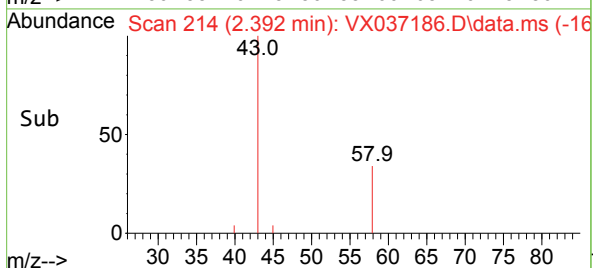
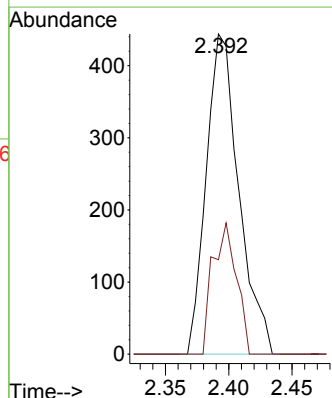
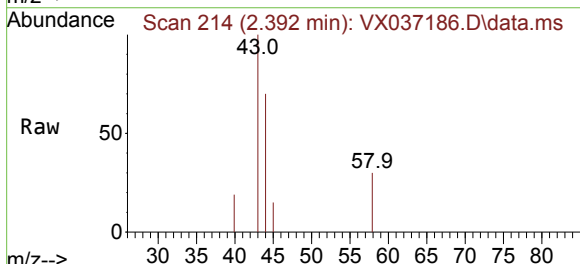
Acq: 23 Aug 2023 16:17

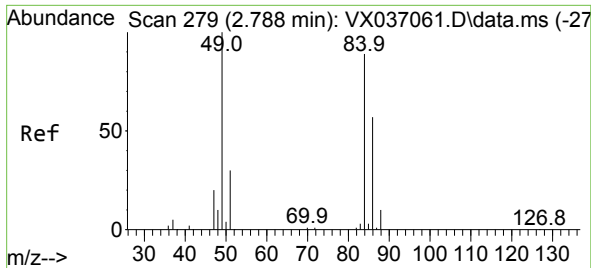
Tgt Ion: 43 Resp: 796

Ion Ratio Lower Upper

43 100

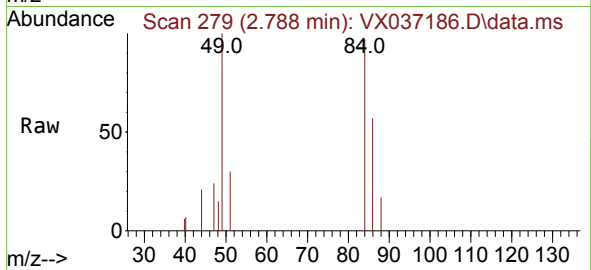
58 29.5 21.9 32.9



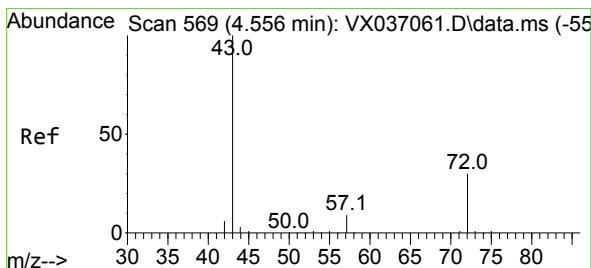
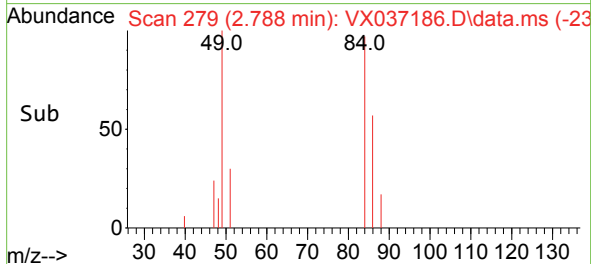
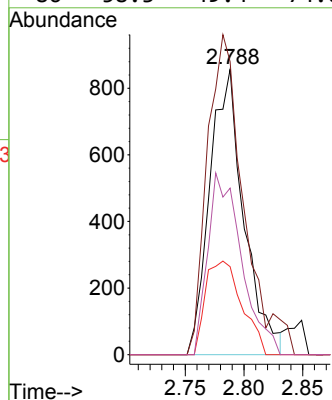


#20  
Methylene Chloride  
Concen: 1.124 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Instrument :  
MSVOA\_X  
ClientSampleId :

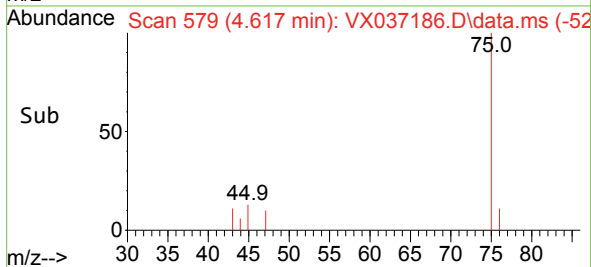
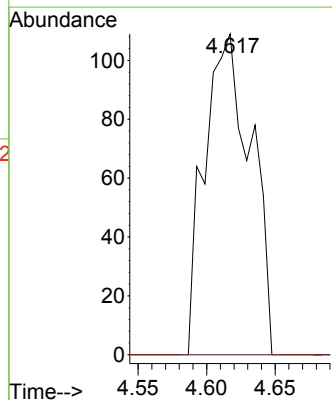
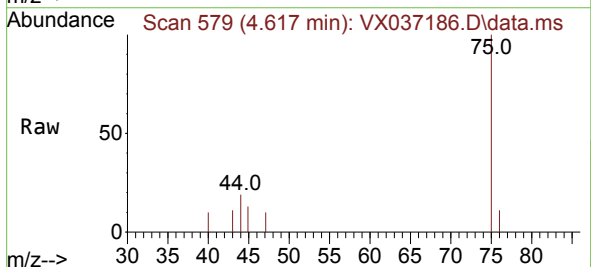


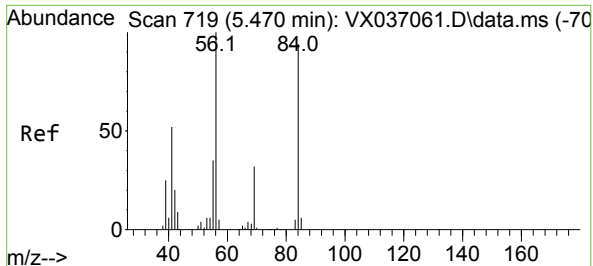
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 1729   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 102.7 | 103.6 | 155.4# |
| 51       | 30.8  | 33.8  | 50.6#  |
| 86       | 58.3  | 49.4  | 74.0   |



#25  
2-Butanone  
Concen: 0.248 ug/l  
RT: 4.617 min Scan# 579  
Delta R.T. 0.061 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

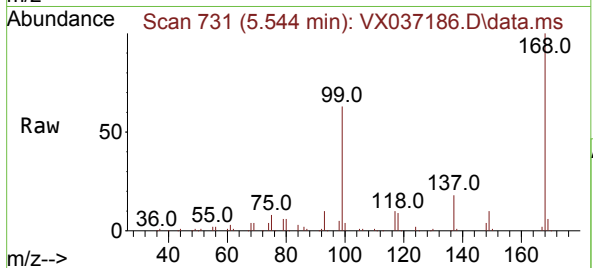
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 257   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 19.4  | 29.2# |



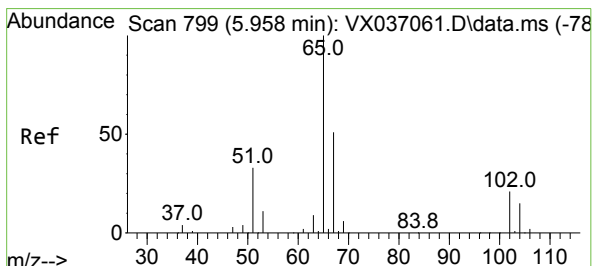
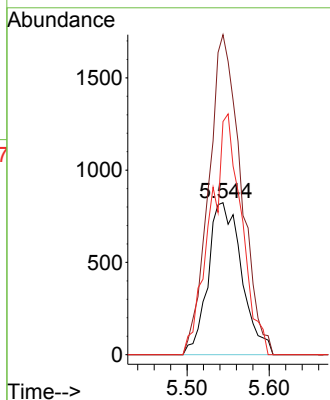
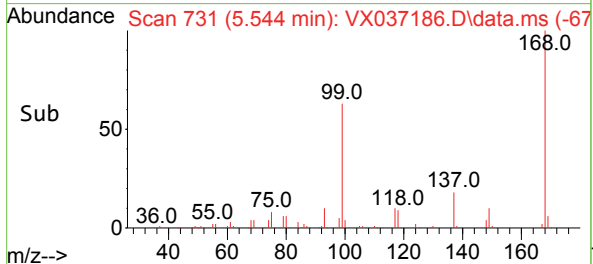


#31  
Cyclohexane  
Concen: 1.185 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Instrument :  
MSVOA\_X  
ClientSampleId :

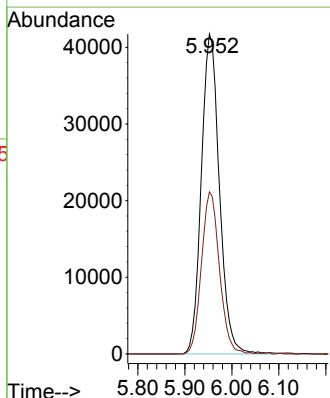
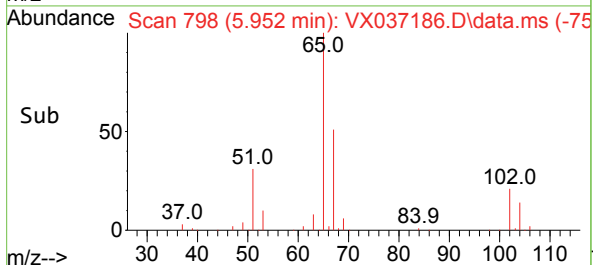
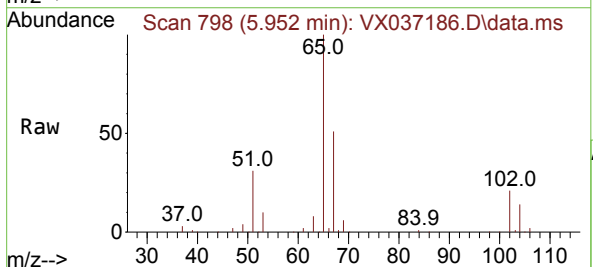


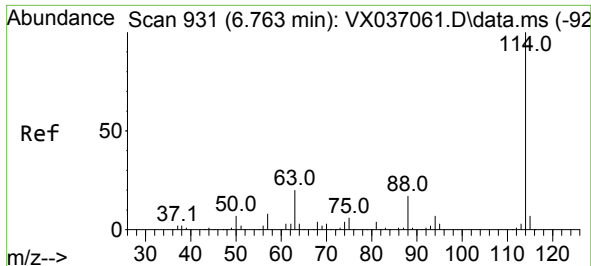
Tgt Ion: 56 Resp: 2343  
Ion Ratio Lower Upper  
56 100  
69 210.4 23.4 35.2#  
84 153.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 63.459 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Tgt Ion: 65 Resp: 111602  
Ion Ratio Lower Upper  
65 100  
67 50.4 0.0 100.2

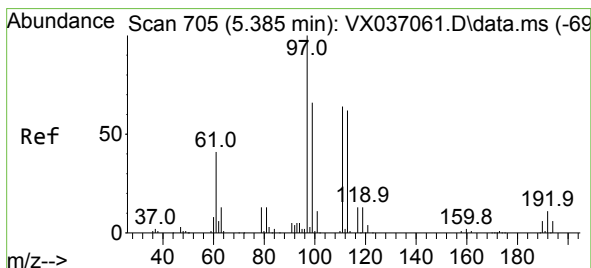
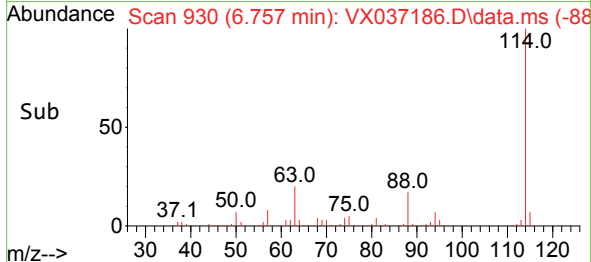
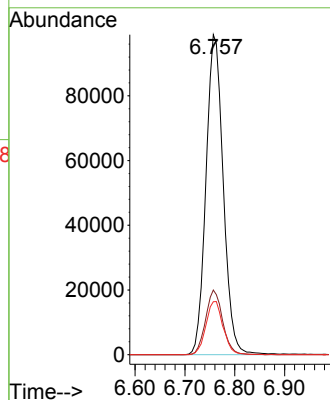
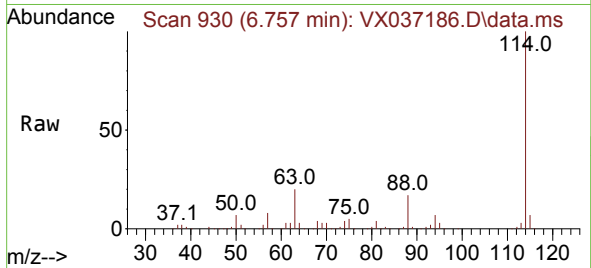




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

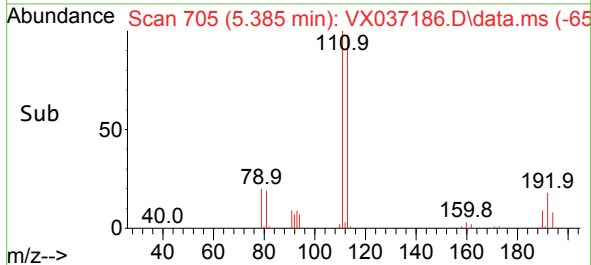
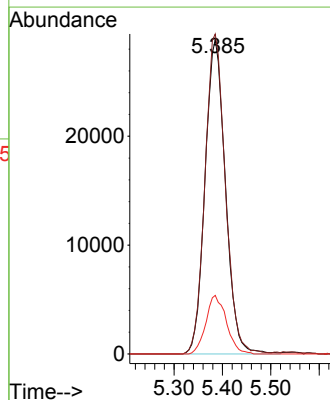
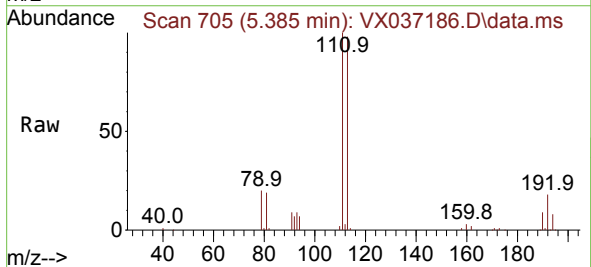
Instrument :  
MSVOA\_X  
ClientSampleId :

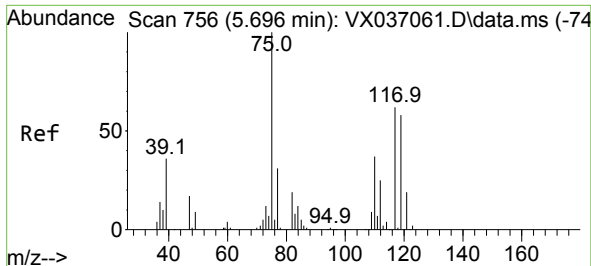
Tgt Ion:114 Resp: 238099  
Ion Ratio Lower Upper  
114 100  
63 20.2 0.0 45.0  
88 16.6 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 53.647 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

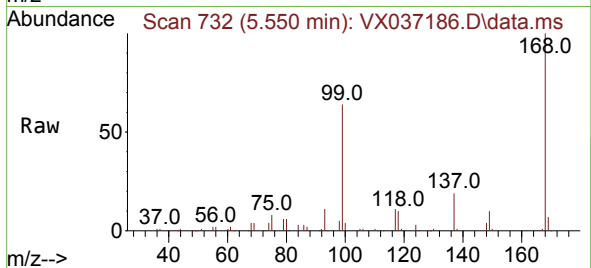
Tgt Ion:113 Resp: 84595  
Ion Ratio Lower Upper  
113 100  
111 101.7 82.9 124.3  
192 18.7 13.3 19.9



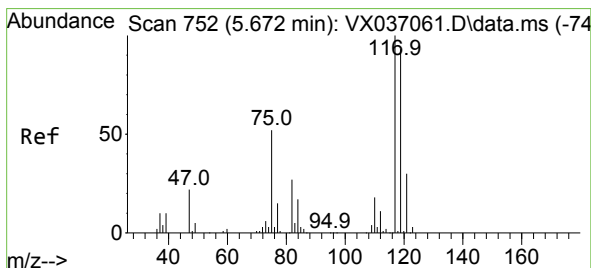
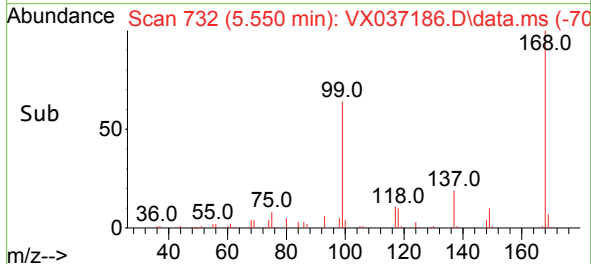
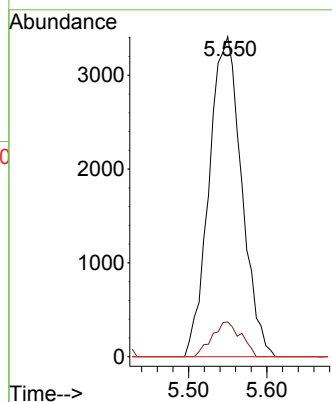


#36  
1,1-Dichloropropene  
Concen: 4.386 ug/l  
RT: 5.550 min Scan# 712  
Delta R.T. -0.146 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Instrument :  
MSVOA\_X  
ClientSampleId :

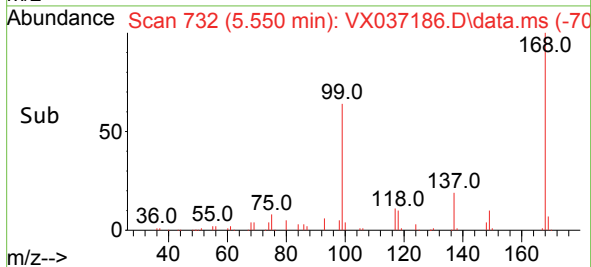
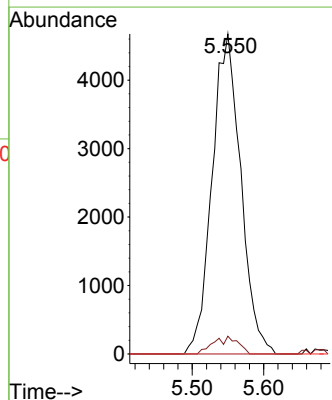
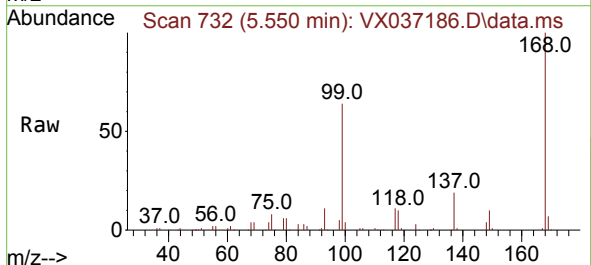


Tgt Ion: 75 Resp: 9827  
Ion Ratio Lower Upper  
75 100  
110 9.7 17.0 50.9#  
77 0.0 24.7 37.1#

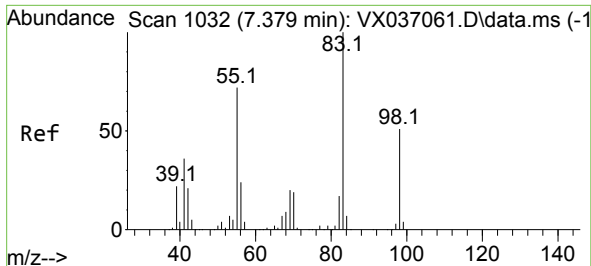


#38  
Carbon Tetrachloride  
Concen: 5.346 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Tgt Ion: 117 Resp: 13011  
Ion Ratio Lower Upper  
117 100  
119 5.5 78.2 117.2#  
121 0.0 24.4 36.6#

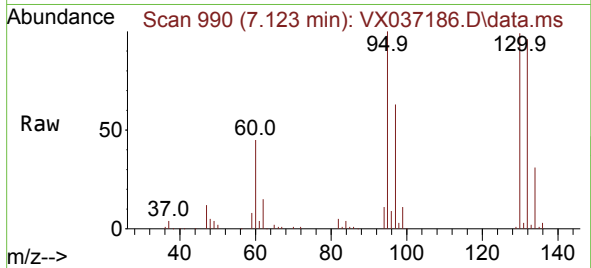




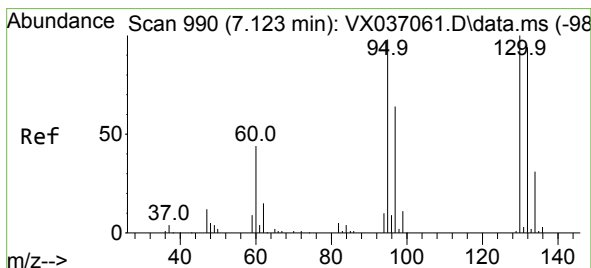
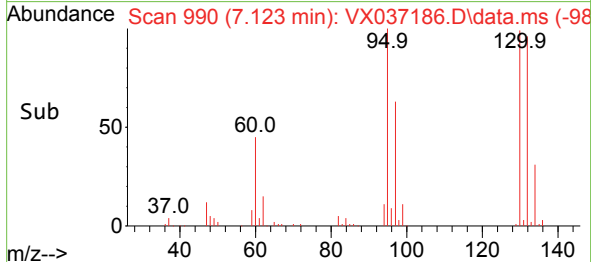
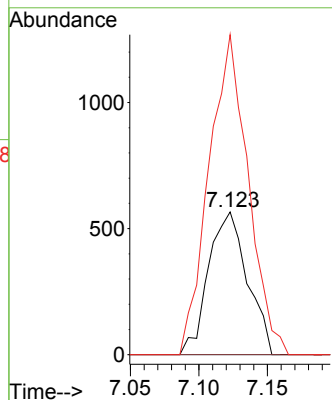


#39  
Methylcyclohexane  
Concen: 0.475 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.256 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Instrument :  
MSVOA\_X  
ClientSampleId :

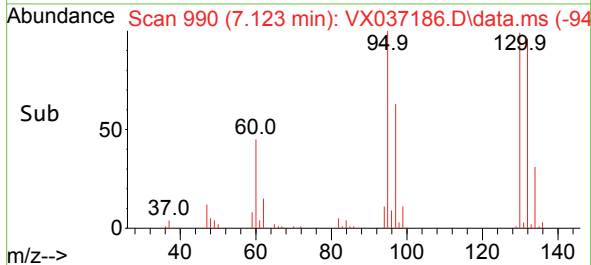
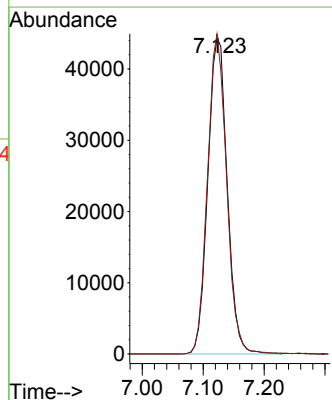
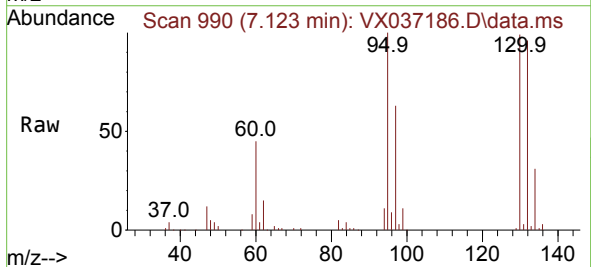


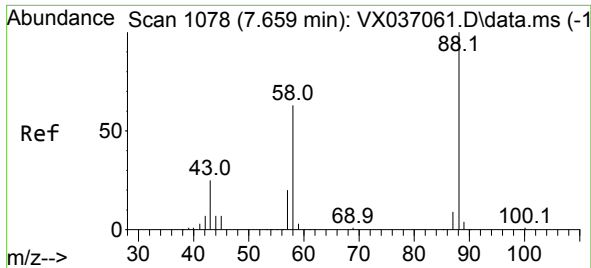
Tgt Ion: 83 Resp: 1119  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.6 97.0#  
98 224.2 36.7 55.1#



#44  
Trichloroethene  
Concen: 53.852 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Tgt Ion:130 Resp: 98113  
Ion Ratio Lower Upper  
130 100  
95 101.1 0.0 204.4

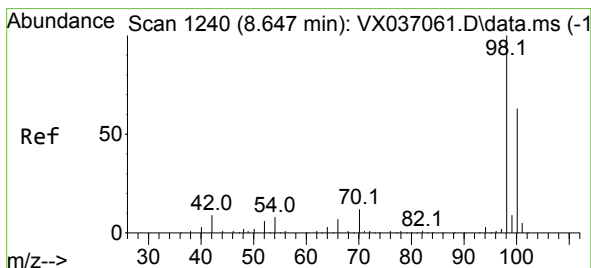
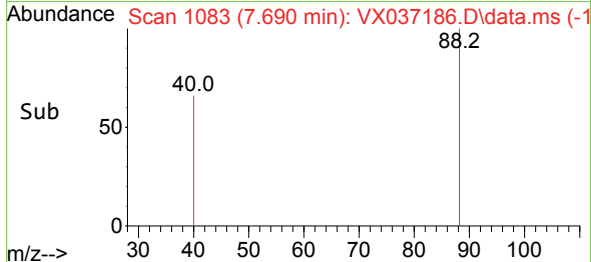
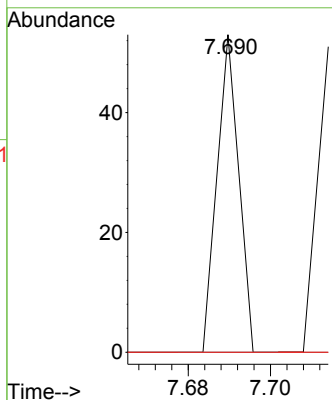
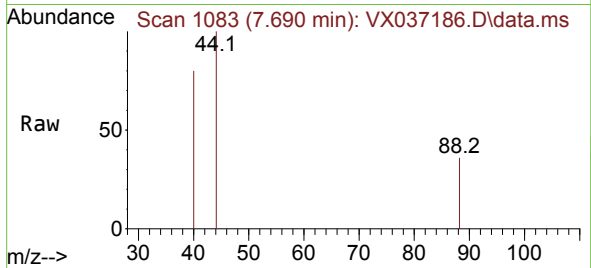




#49  
1,4-Dioxane  
Concen: 0.398 ug/l  
RT: 7.690 min Scan# 1078  
Delta R.T. 0.031 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

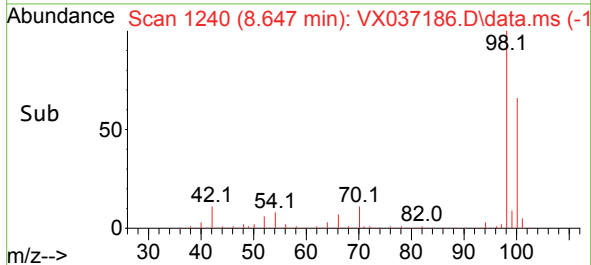
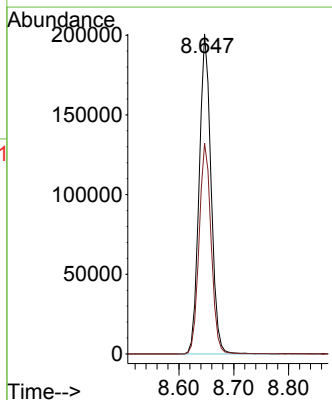
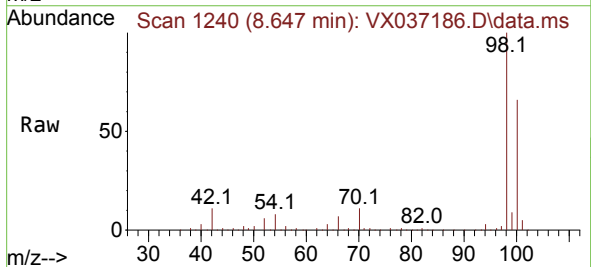
Instrument :  
MSVOA\_X  
ClientSampleId :

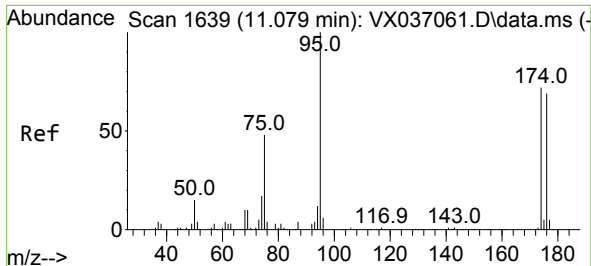
Tgt Ion: 88 Resp: 19  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 52.861 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Tgt Ion: 98 Resp: 302363  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.1 79.7

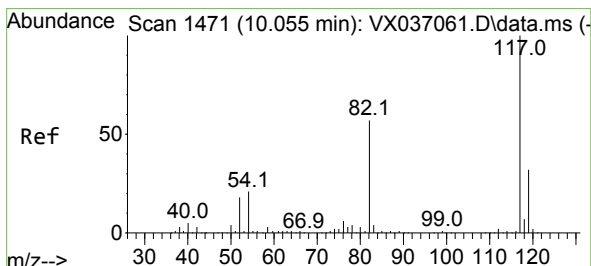
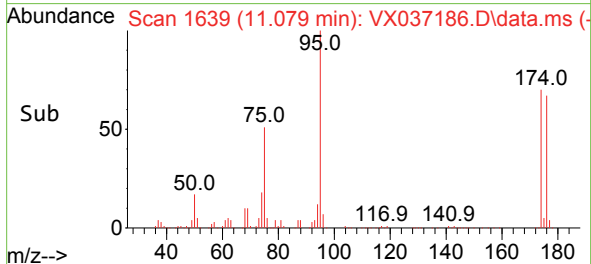
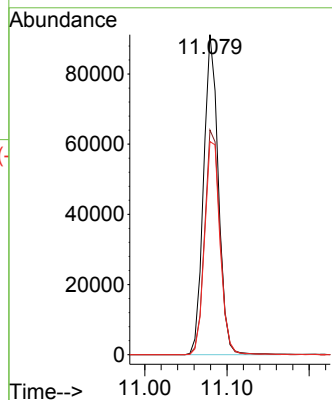
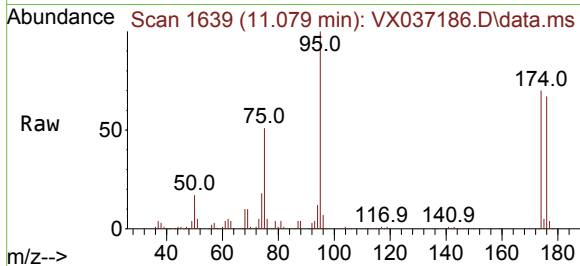




#62  
4-Bromofluorobenzene  
Concen: 50.615 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

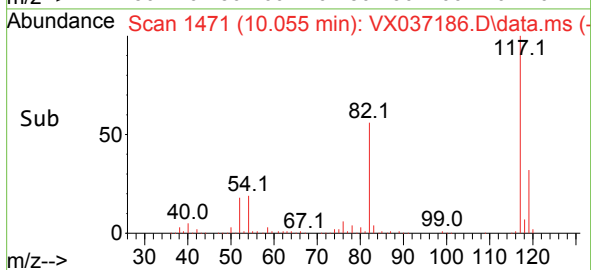
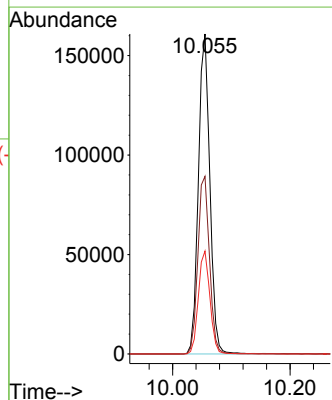
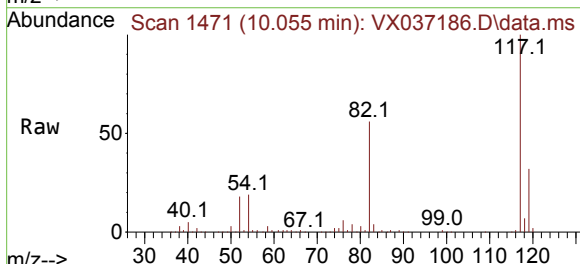
Instrument :  
MSVOA\_X  
ClientSampleId :

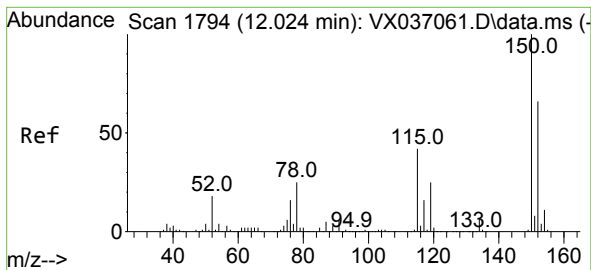
Tgt Ion: 95 Resp: 113775  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 135.6  
176 70.1 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037186.D  
Acq: 23 Aug 2023 16:17

Tgt Ion: 117 Resp: 217351  
Ion Ratio Lower Upper  
117 100  
82 55.5 46.2 69.4  
119 32.1 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX037186.D

Acq: 23 Aug 2023 16:17

Instrument :

MSVOA\_X

ClientSampleId :

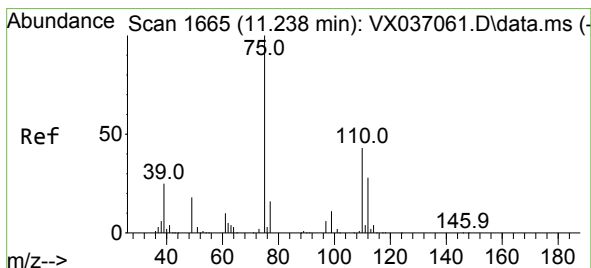
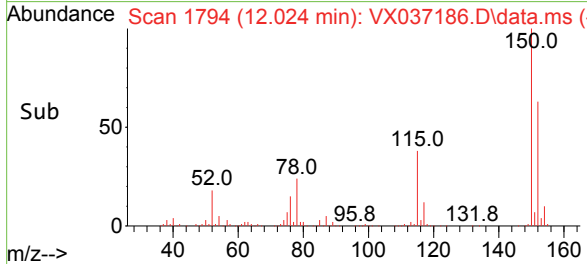
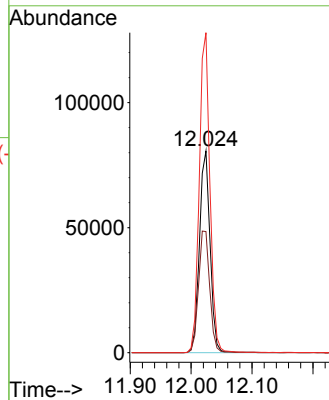
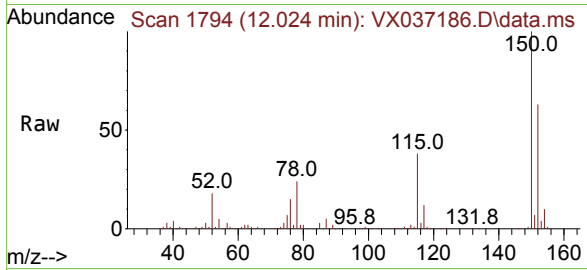
Tgt Ion:152 Resp: 97760

Ion Ratio Lower Upper

152 100

115 63.6 43.3 129.9

150 158.2 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 28.114 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037186.D

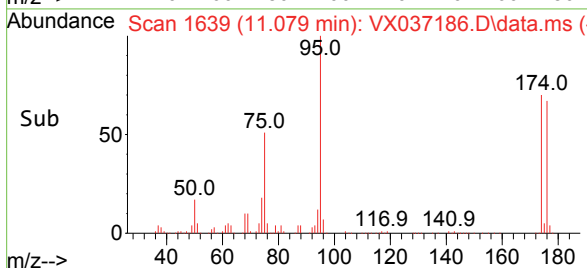
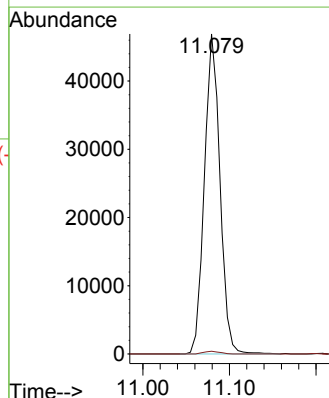
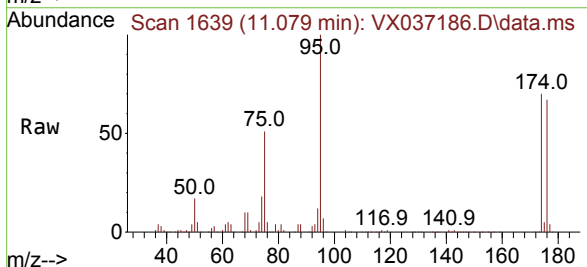
Acq: 23 Aug 2023 16:17

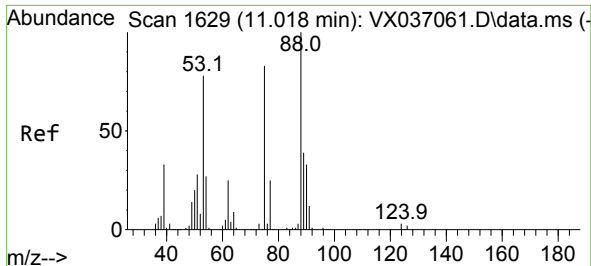
Tgt Ion: 75 Resp: 58532

Ion Ratio Lower Upper

75 100

77 0.9 19.1 57.5#

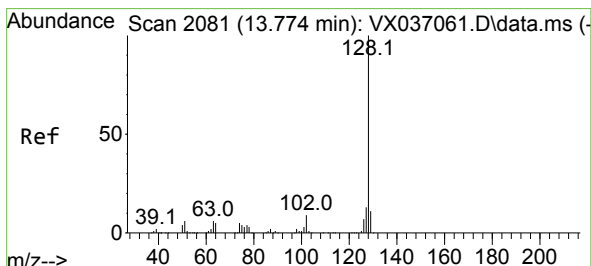
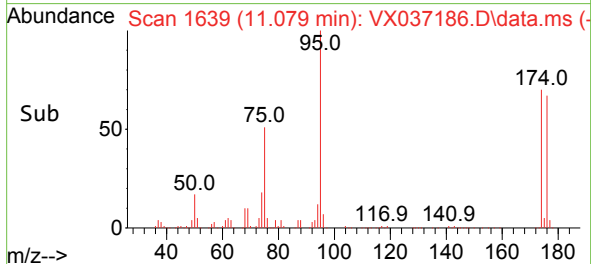
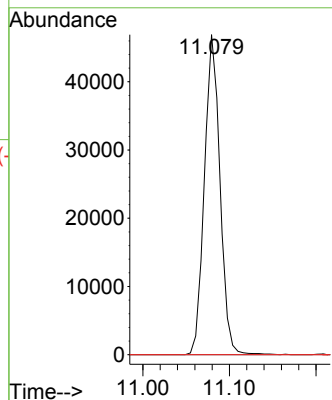
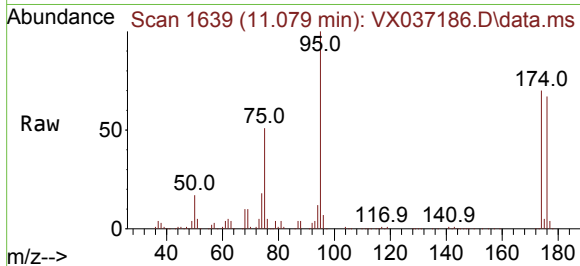




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 78.523 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX037186.D  
 Acq: 23 Aug 2023 16:17

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 75 Resp: 58532  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#



#95  
 Naphthalene  
 Concen: 0.387 ug/l  
 RT: 13.780 min Scan# 2082  
 Delta R.T. 0.006 min  
 Lab File: VX037186.D  
 Acq: 23 Aug 2023 16:17

Tgt Ion: 128 Resp: 3154  
 Ion Ratio Lower Upper  
 128 100  
 127 10.0 10.3 15.5#  
 129 8.5 8.8 13.2#

