

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082123\  
 Data File : VX037142.D  
 Acq On : 21 Aug 2023 19:44  
 Operator : JC/MD  
 Sample : VIBLK  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 22 06:01:45 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

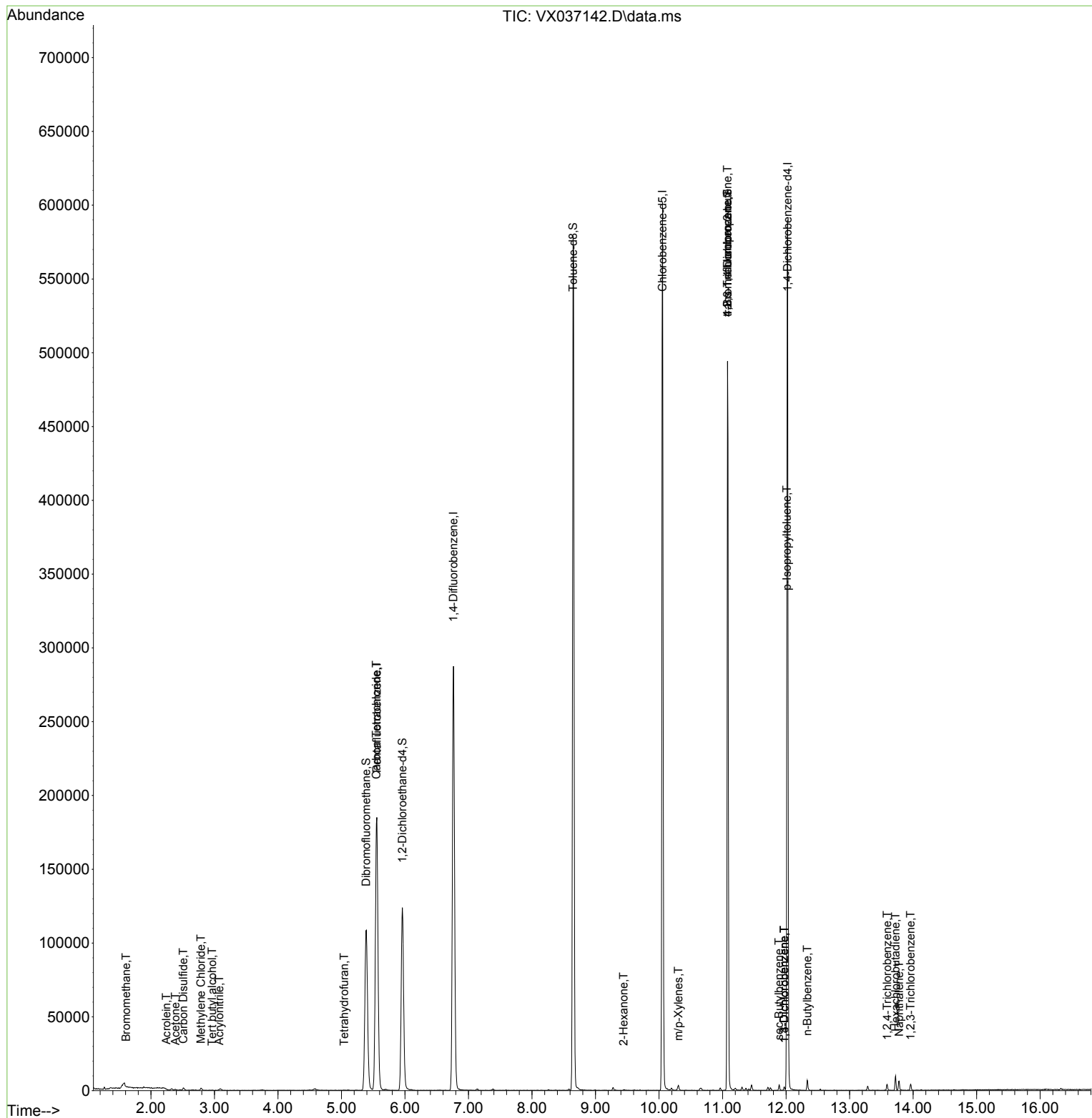
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 171871   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 299988   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 269664   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 125542   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 124753   | 50.348   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 100.700% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 97688    | 49.170   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 98.340%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 358134   | 49.695   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 99.380%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 134159   | 47.370   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 94.740%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 1.605  | 94    | 432      | 0.456    | ug/l       | 100      |
| 11) Tert butyl alcohol        | 2.965  | 59    | 132      | 0.227    | ug/l #     | 78       |
| 13) Acrolein                  | 2.239  | 56    | 280      | 0.633    | ug/l #     | 71       |
| 15) Acrylonitrile             | 3.075  | 53    | 391      | 0.377    | ug/l #     | 82       |
| 16) Acetone                   | 2.386  | 43    | 617      | 0.637    | ug/l #     | 84       |
| 17) Carbon Disulfide          | 2.508  | 76    | 2078     | 0.462    | ug/l #     | 92       |
| 20) Methylene Chloride        | 2.788  | 84    | 650      | 0.300    | ug/l #     | 79       |
| 29) Tetrahydrofuran           | 5.044  | 42    | 222      | 0.239    | ug/l #     | 41       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 18910    | 6.167    | ug/l #     | 15       |
| 59) 2-Hexanone                | 9.439  | 43    | 485      | 0.229    | ug/l       | 85       |
| 68) m/p-Xylenes               | 10.305 | 106   | 868      | 0.224    | ug/l       | 90       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 68480    | 25.613   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 68480    | 71.539   | ug/l #     | 5        |
| 85) sec-Butylbenzene          | 11.890 | 105   | 2193     | 0.259    | ug/l       | 95       |
| 86) p-Isopropyltoluene        | 12.012 | 119   | 1643     | 0.225    | ug/l #     | 74       |
| 87) 1,3-Dichlorobenzene       | 11.969 | 146   | 919      | 0.220    | ug/l       | 95       |
| 88) 1,4-Dichlorobenzene       | 11.969 | 146   | 919      | 0.213    | ug/l       | 96       |
| 89) n-Butylbenzene            | 12.335 | 91    | 2424     | 0.401    | ug/l       | 99       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 1150     | 0.481    | ug/l       | 96       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 1377     | 1.491    | ug/l       | 98       |
| 95) Naphthalene               | 13.780 | 128   | 4779     | 0.456    | ug/l       | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 1269     | 0.534    | ug/l       | 93       |
| -----                         |        |       |          |          |            |          |

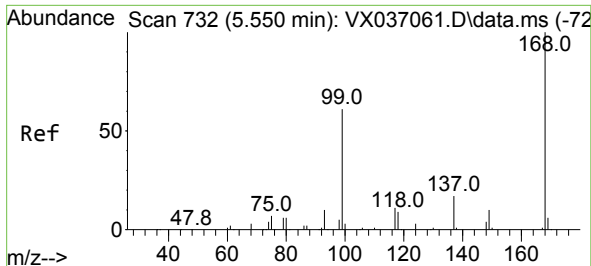
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082123\  
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Quant Time: Aug 22 06:01:45 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

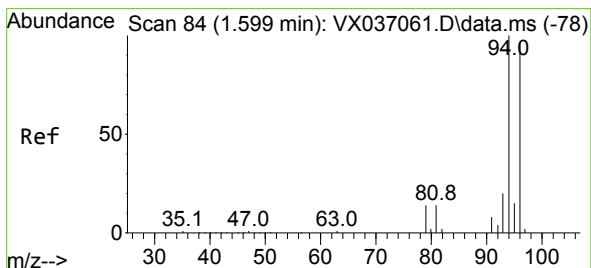
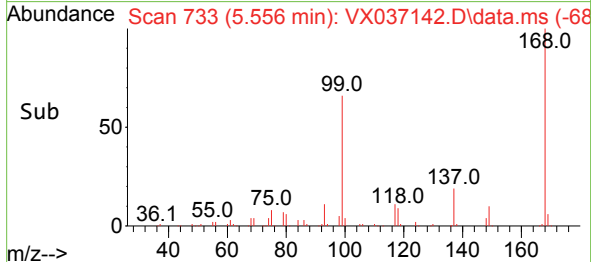
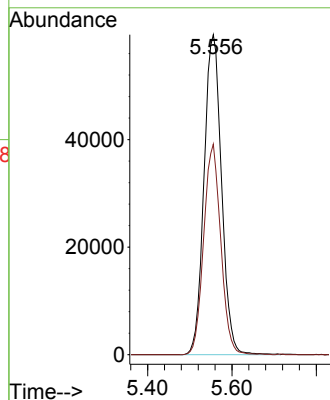
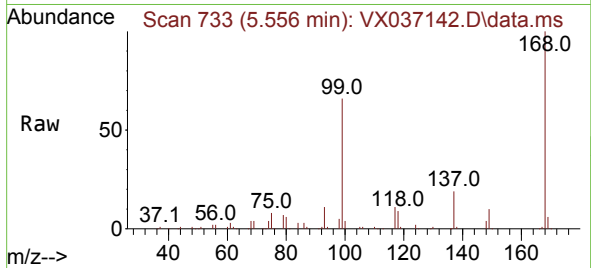




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

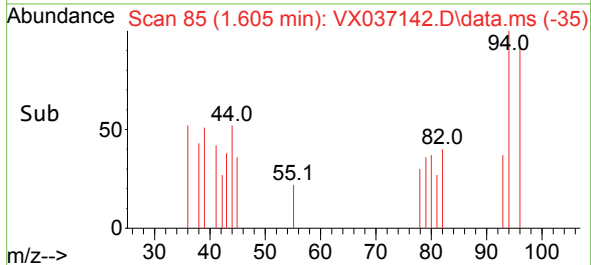
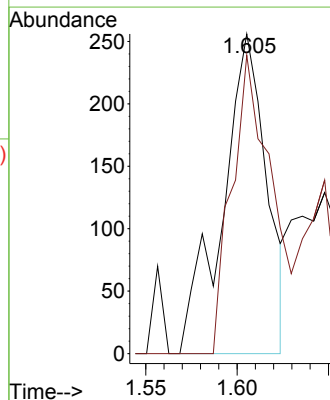
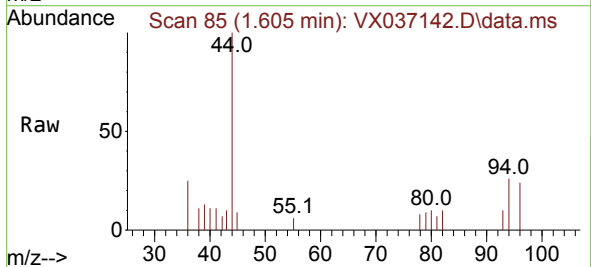
Instrument :  
MSVOA\_X  
ClientSampleId :

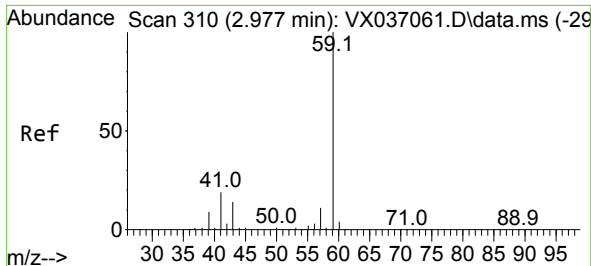
Tgt Ion:168 Resp: 171871  
Ion Ratio Lower Upper  
168 100  
99 65.8 56.6 85.0



#5  
Bromomethane  
Concen: 0.456 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

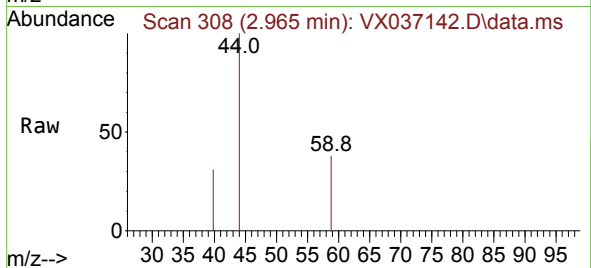
Tgt Ion: 94 Resp: 432  
Ion Ratio Lower Upper  
94 100  
96 93.4 74.6 111.8



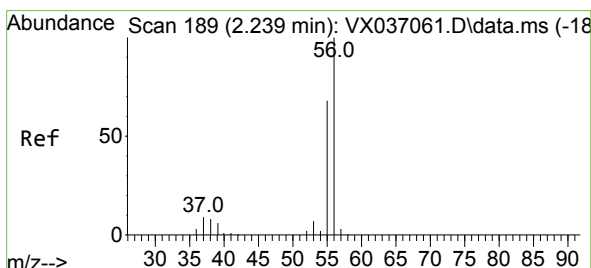
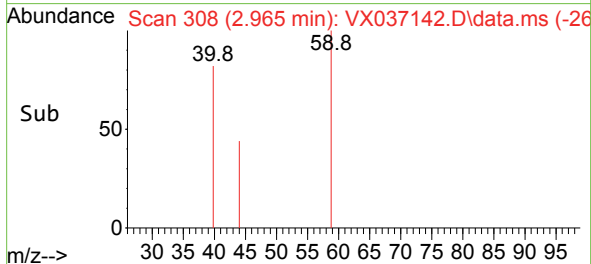
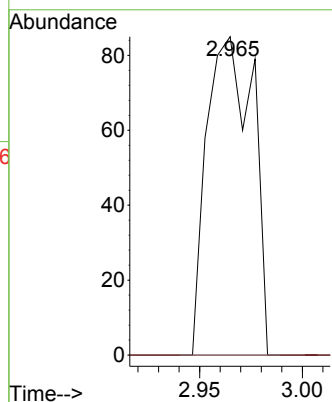


#11  
Tert butyl alcohol  
Concen: 0.227 ug/l  
RT: 2.965 min Scan# 30  
Delta R.T. -0.012 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :

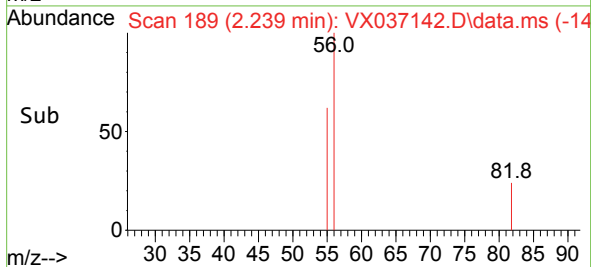
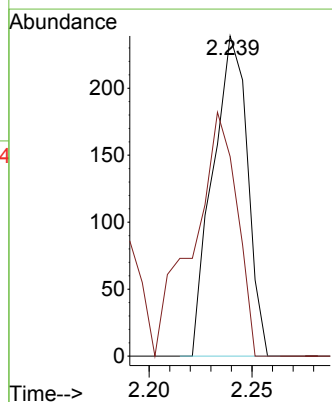
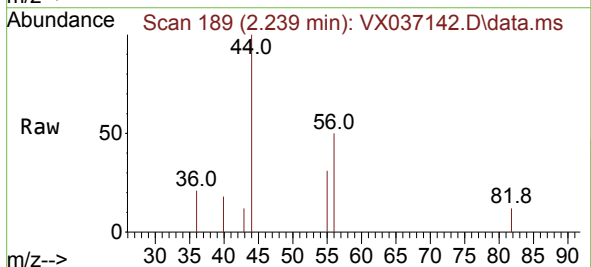


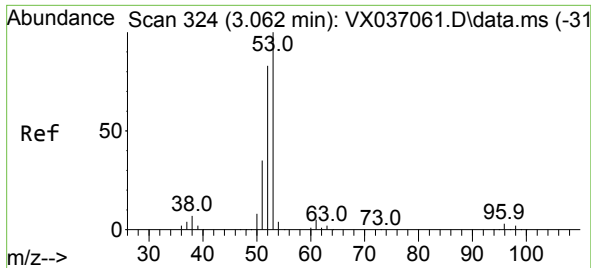
Tgt Ion: 59 Resp: 132  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



#13  
Acrolein  
Concen: 0.633 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

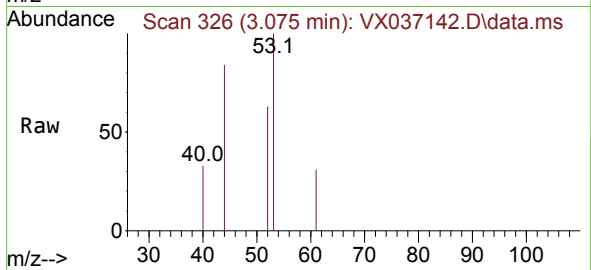
Tgt Ion: 56 Resp: 280  
Ion Ratio Lower Upper  
56 100  
55 95.7 57.1 85.7#



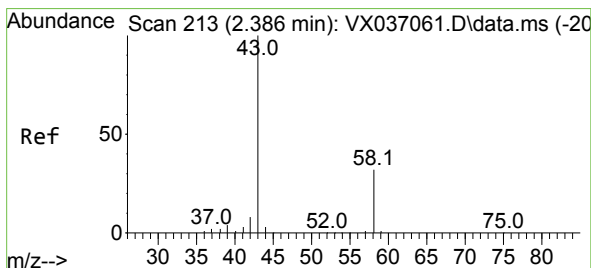
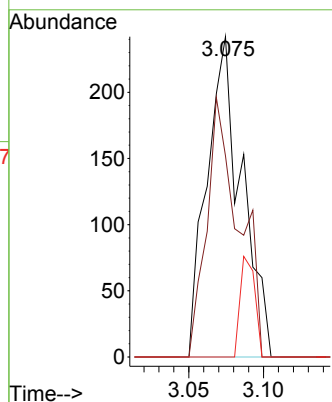


#15  
Acrylonitrile  
Concen: 0.377 ug/l  
RT: 3.075 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :

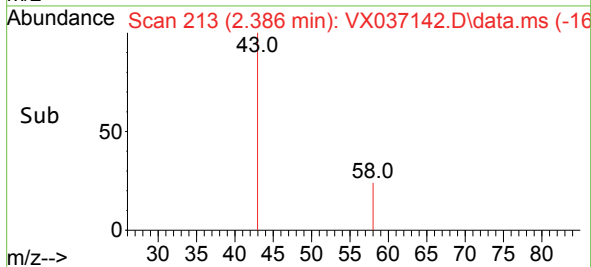
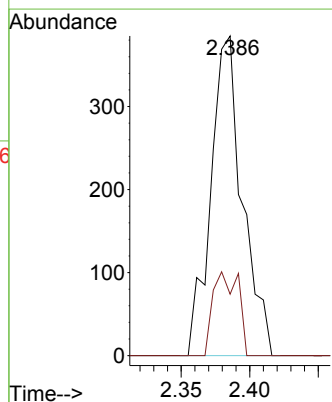
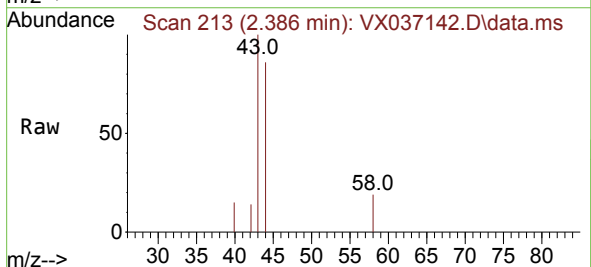


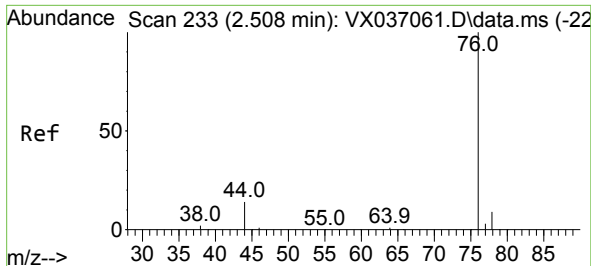
Tgt Ion: 53 Resp: 391  
Ion Ratio Lower Upper  
53 100  
52 74.9 66.0 99.0  
51 13.3 29.8 44.6#



#16  
Acetone  
Concen: 0.637 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

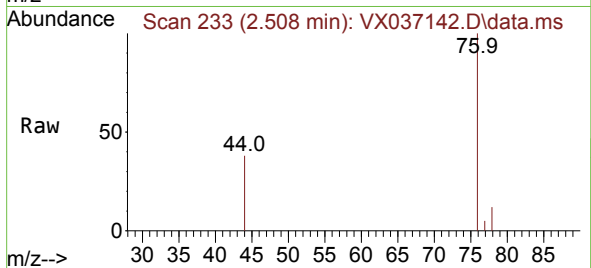
Tgt Ion: 43 Resp: 617  
Ion Ratio Lower Upper  
43 100  
58 19.2 21.9 32.9#



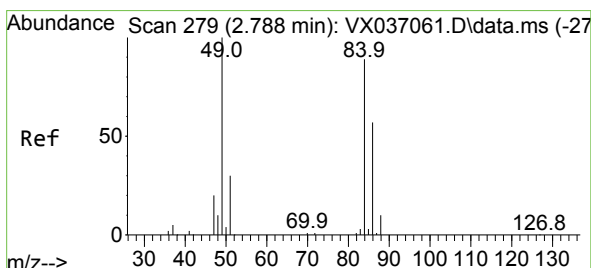
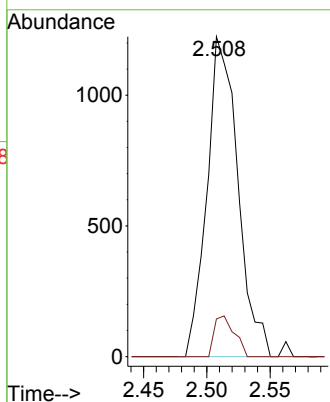
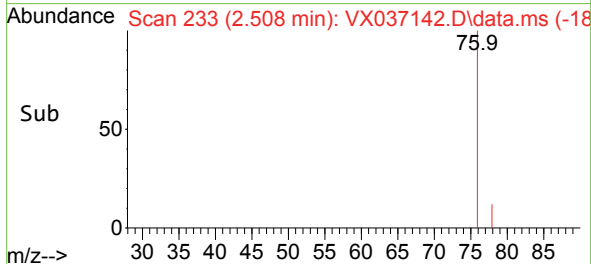


#17  
Carbon Disulfide  
Concen: 0.462 ug/l  
RT: 2.508 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

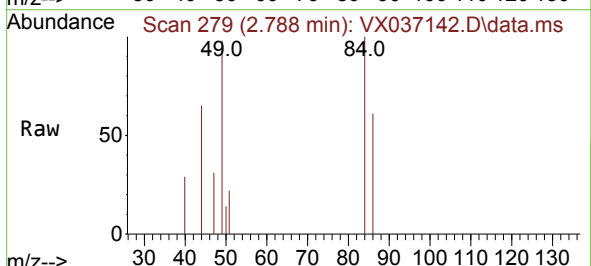
Instrument :  
MSVOA\_X  
ClientSampleId :



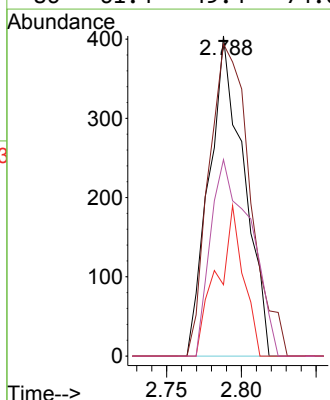
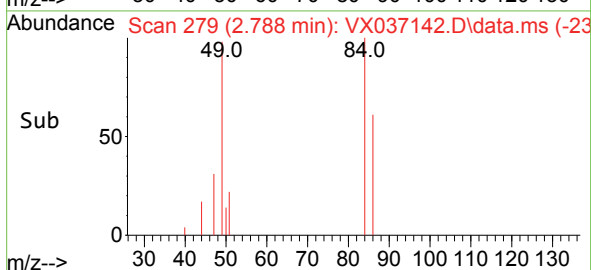
Tgt Ion: 76 Resp: 2078  
Ion Ratio Lower Upper  
76 100  
78 11.8 7.0 10.6#

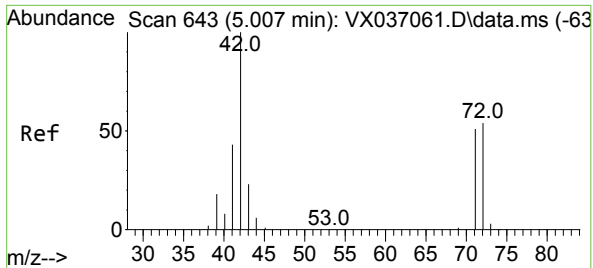


#20  
Methylene Chloride  
Concen: 0.300 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44



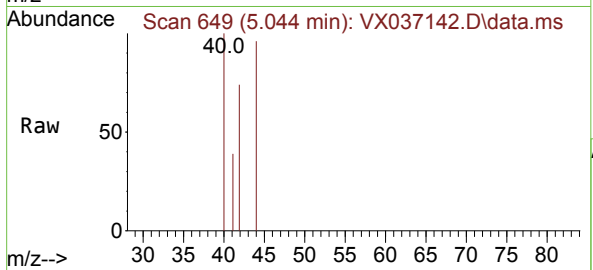
Tgt Ion: 84 Resp: 650  
Ion Ratio Lower Upper  
84 100  
49 97.5 103.6 155.4#  
51 22.3 33.8 50.6#  
86 61.4 49.4 74.0



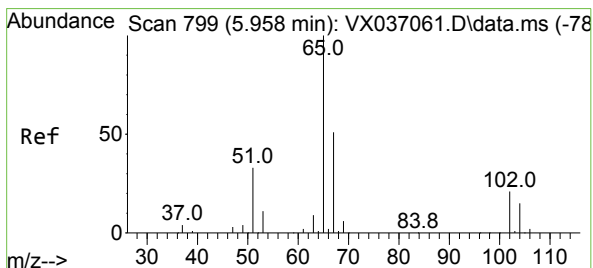
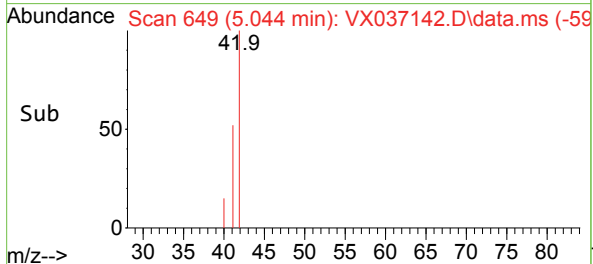
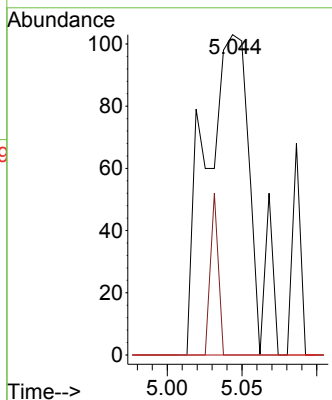


#29  
Tetrahydrofuran  
Concen: 0.239 ug/l  
RT: 5.044 min Scan# 649  
Delta R.T. 0.037 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :

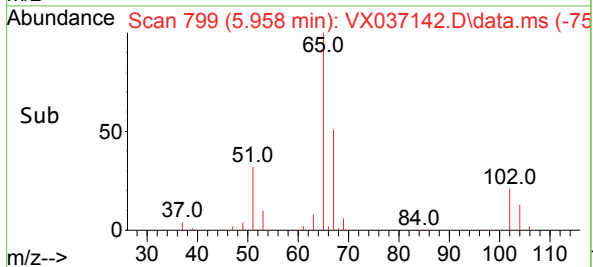
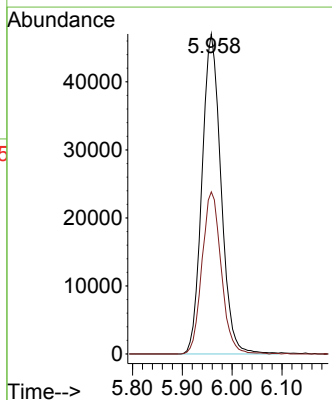
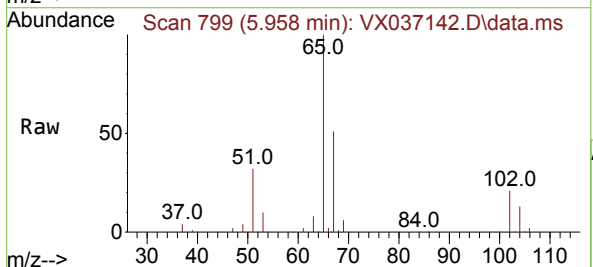


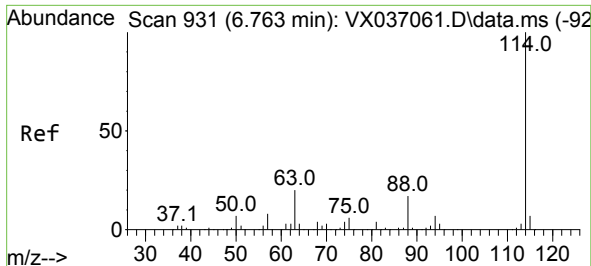
Tgt Ion: 42 Resp: 222  
Ion Ratio Lower Upper  
42 100  
72 8.6 34.2 51.4#  
71 0.0 32.2 48.2#



#33  
1,2-Dichloroethane-d4  
Concen: 50.348 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Tgt Ion: 65 Resp: 124753  
Ion Ratio Lower Upper  
65 100  
67 51.0 0.0 100.2

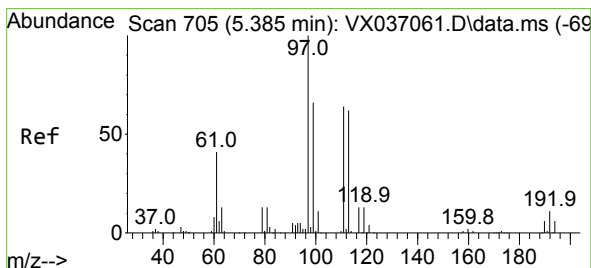
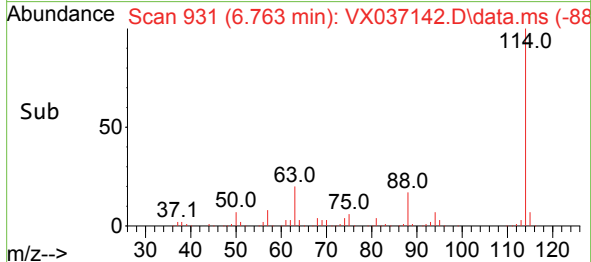
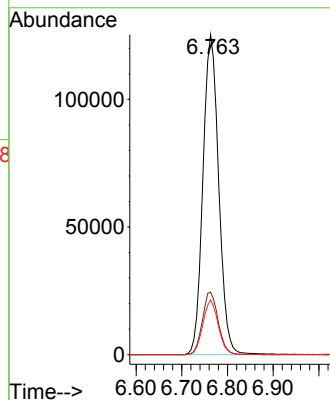
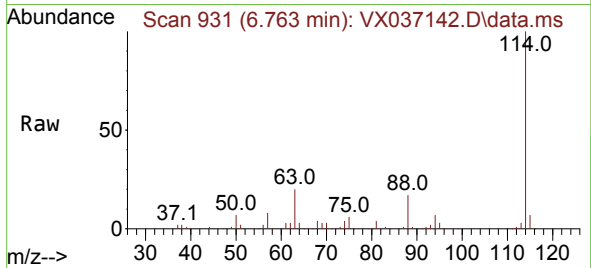




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

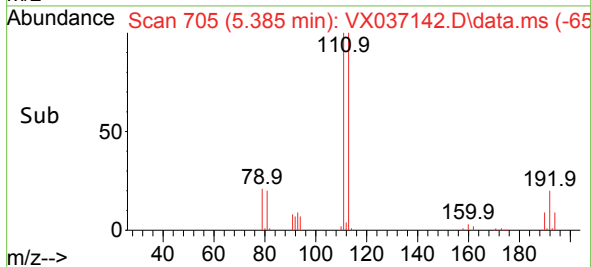
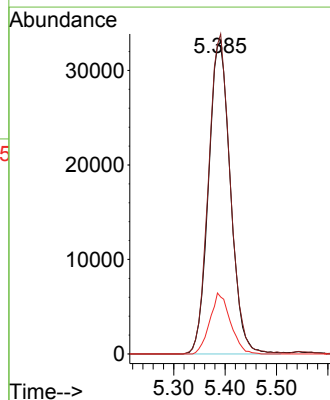
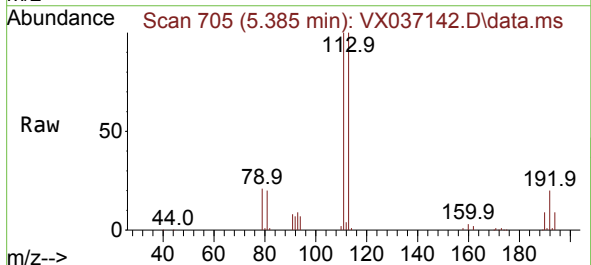
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:114 Resp: 299988  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 45.0  
88 17.1 0.0 36.6

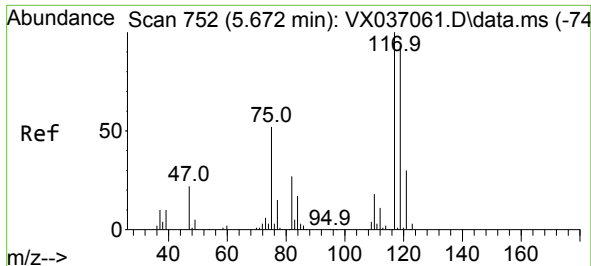


#35  
Dibromofluoromethane  
Concen: 49.170 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Tgt Ion:113 Resp: 97688  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.9 124.3  
192 18.3 13.3 19.9

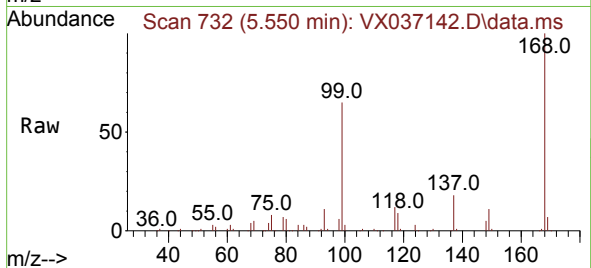




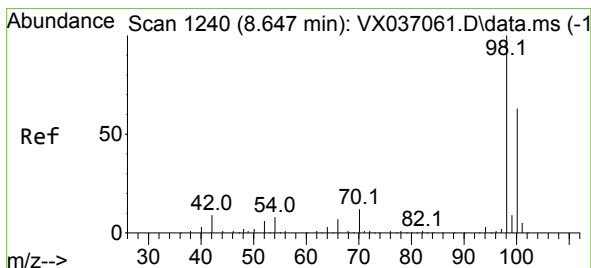
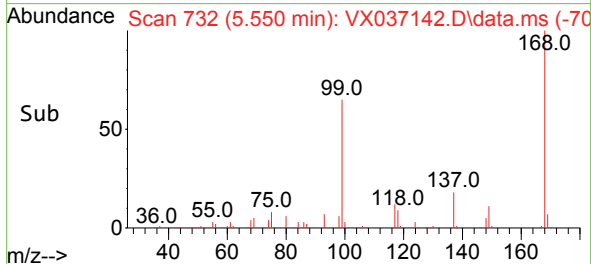
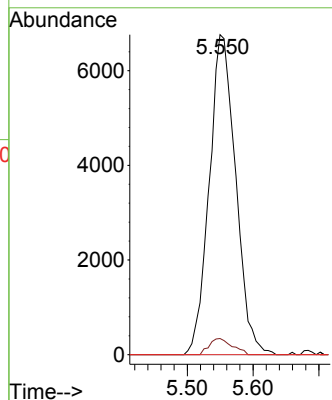


#38  
Carbon Tetrachloride  
Concen: 6.167 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :

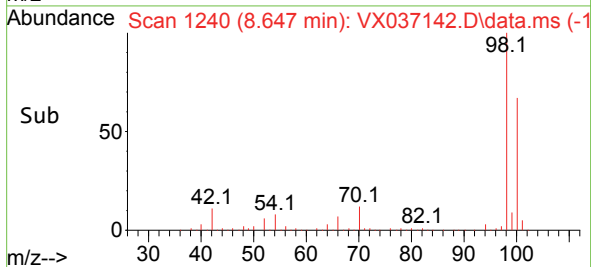
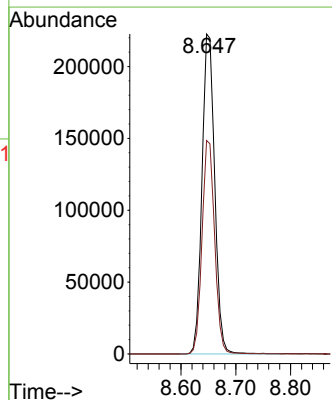
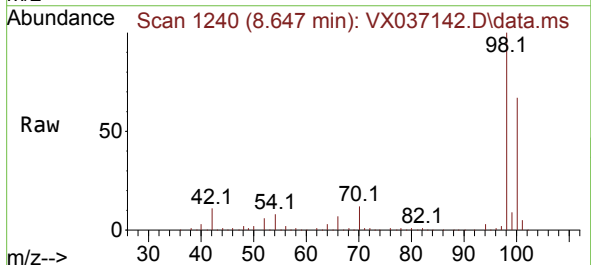


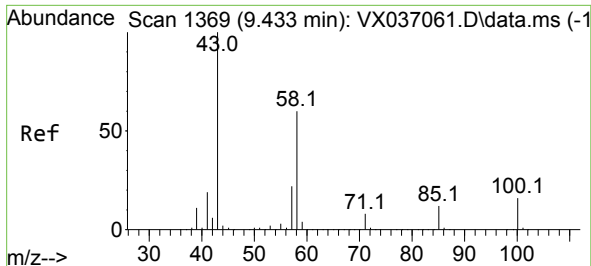
Tgt Ion:117 Resp: 18910  
Ion Ratio Lower Upper  
117 100  
119 5.0 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 49.695 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Tgt Ion: 98 Resp: 358134  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.1 79.7

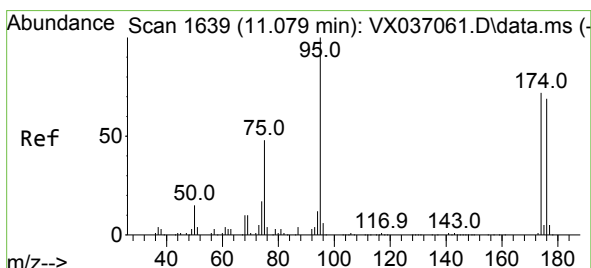
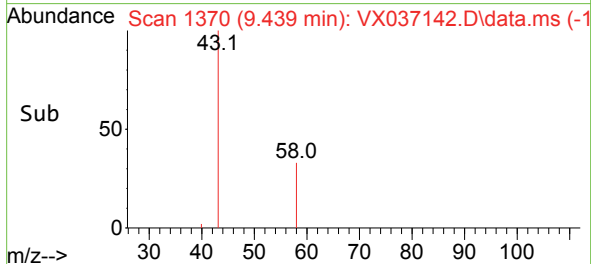
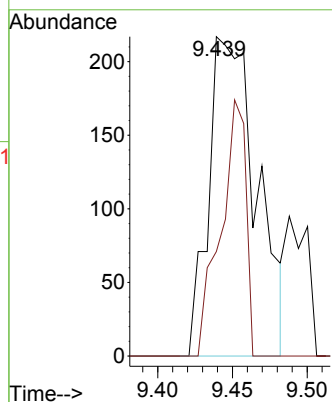
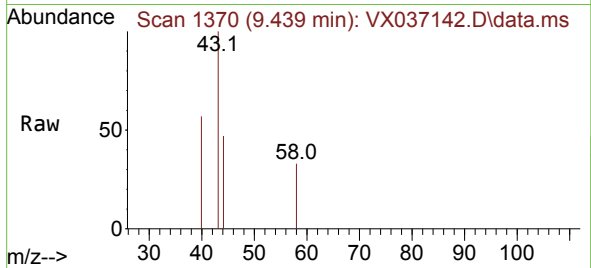




#59  
2-Hexanone  
Concen: 0.229 ug/l  
RT: 9.439 min Scan# 1369  
Delta R.T. 0.006 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

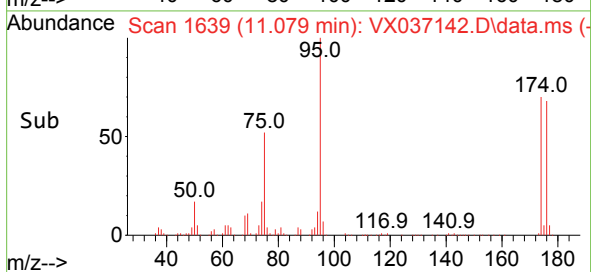
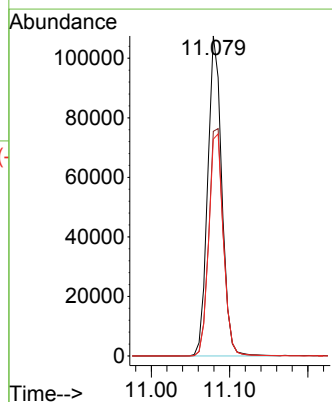
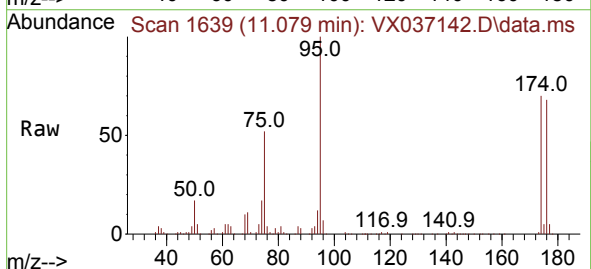
Instrument :  
MSVOA\_X  
ClientSampleId :

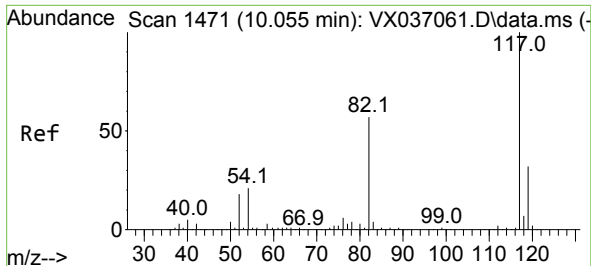
Tgt Ion: 43 Resp: 485  
Ion Ratio Lower Upper  
43 100  
58 41.9 26.2 78.5



#62  
4-Bromofluorobenzene  
Concen: 47.370 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

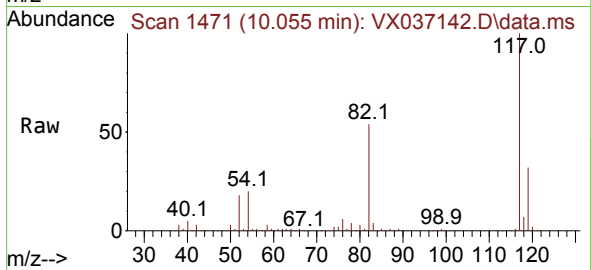
Tgt Ion: 95 Resp: 134159  
Ion Ratio Lower Upper  
95 100  
174 73.2 0.0 135.6  
176 71.8 0.0 131.0



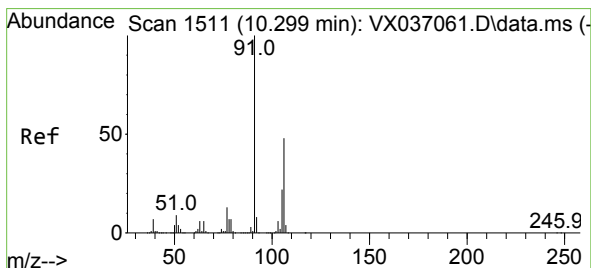
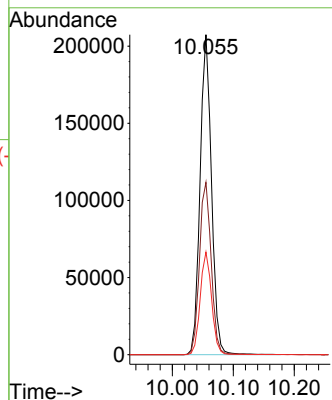
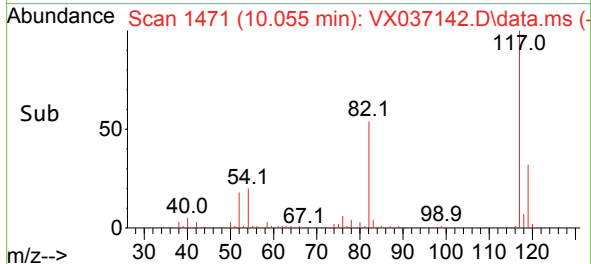


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

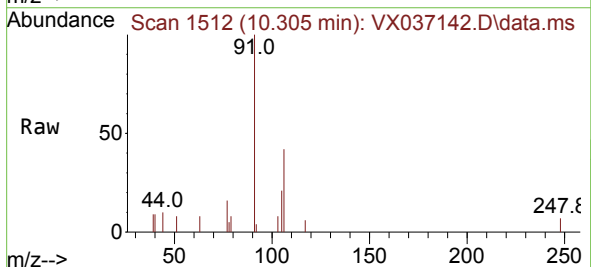
Instrument :  
MSVOA\_X  
ClientSampleId :



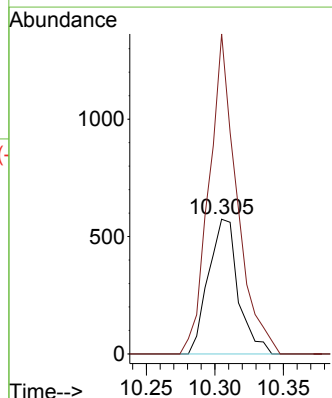
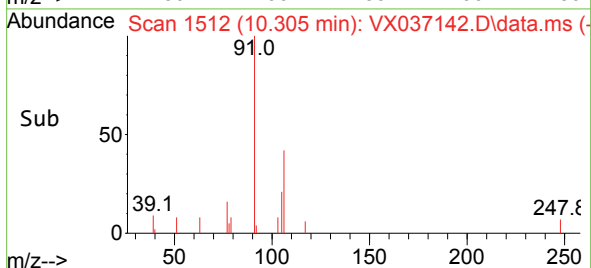
Tgt Ion:117 Resp: 269664  
Ion Ratio Lower Upper  
117 100  
82 53.9 46.2 69.4  
119 32.0 25.5 38.3

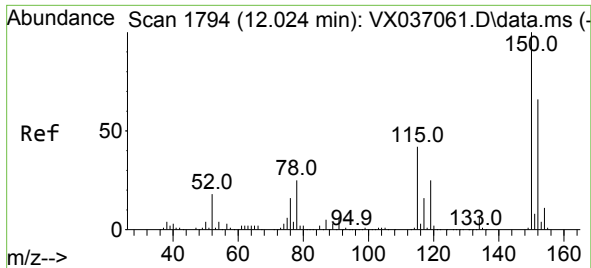


#68  
m/p-Xylenes  
Concen: 0.224 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.006 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44



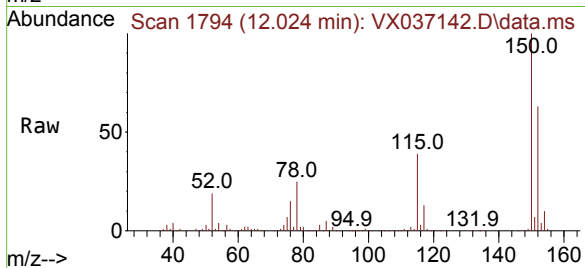
Tgt Ion:106 Resp: 868  
Ion Ratio Lower Upper  
106 100  
91 222.0 165.5 248.3



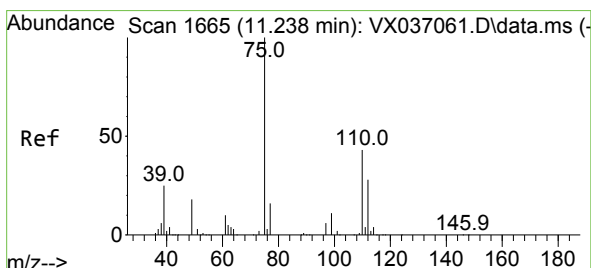
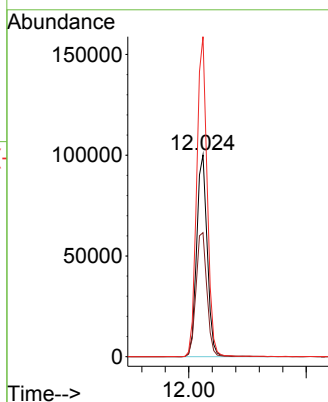
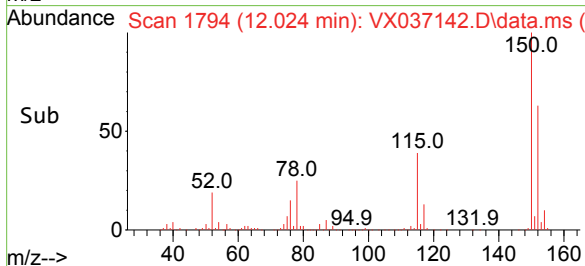


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX037142.D  
 Acq: 21 Aug 2023 19:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :

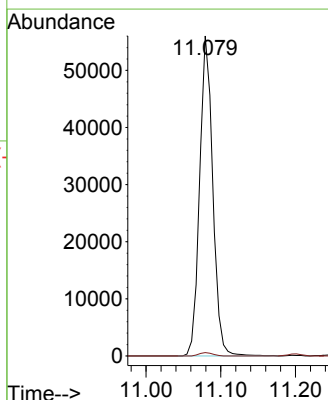
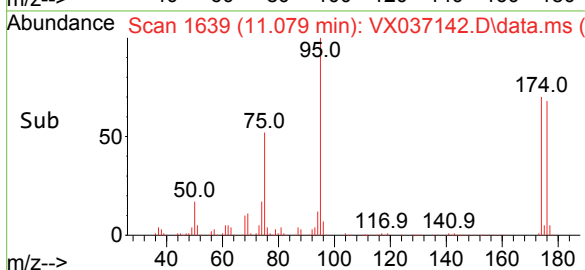
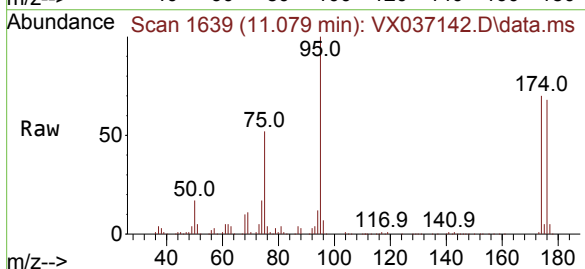


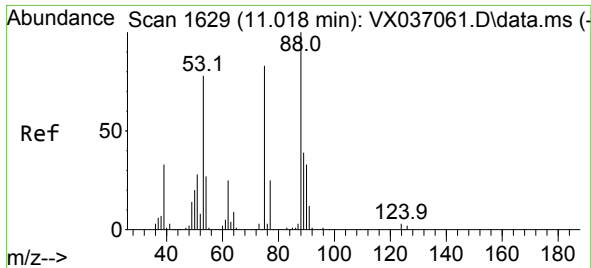
Tgt Ion:152 Resp: 125542  
 Ion Ratio Lower Upper  
 152 100  
 115 63.4 43.3 129.9  
 150 156.8 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 25.613 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX037142.D  
 Acq: 21 Aug 2023 19:44

Tgt Ion: 75 Resp: 68480  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#

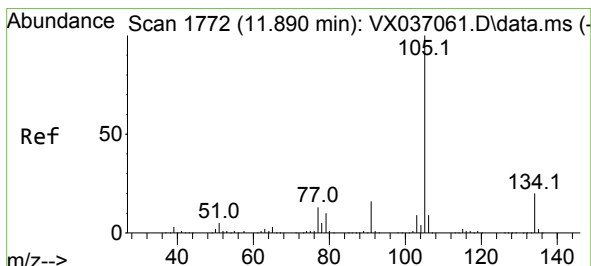
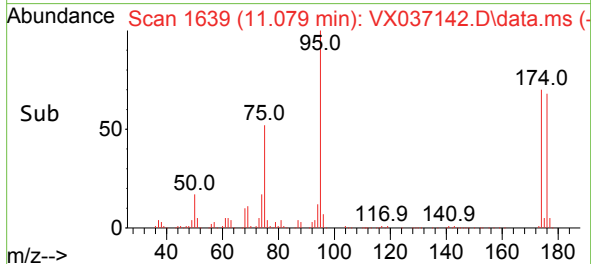
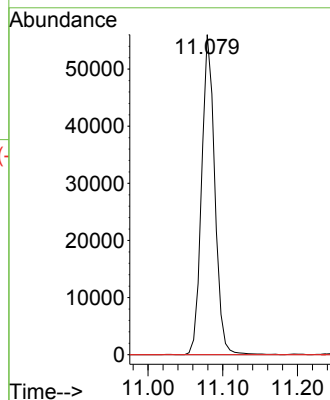
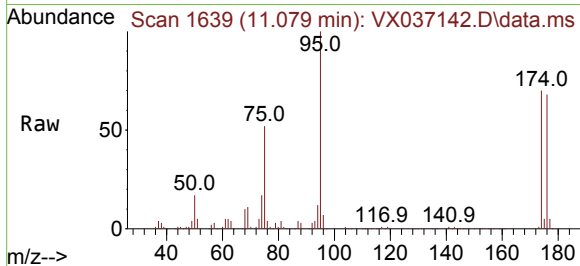




#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.539 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

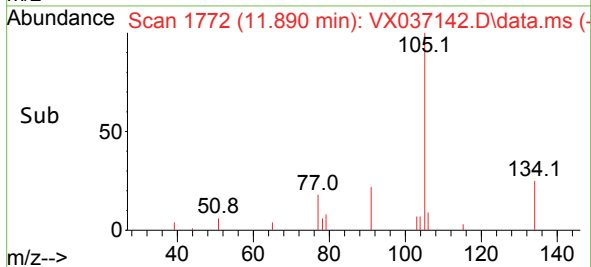
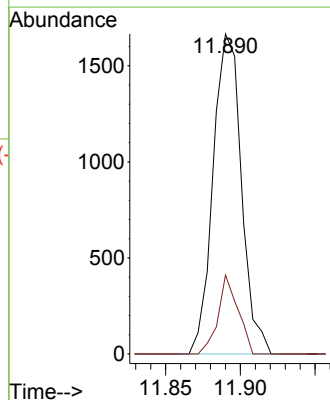
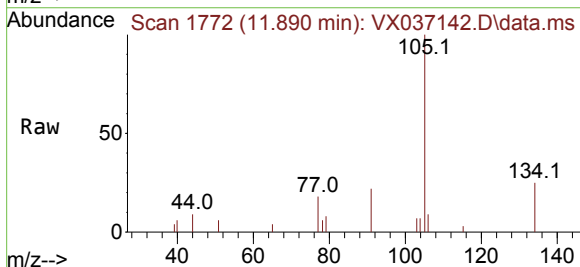
Instrument :  
MSVOA\_X  
ClientSampleId :

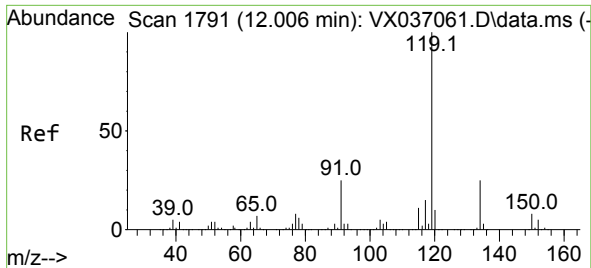
Tgt Ion: 75 Resp: 68480  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#85  
sec-Butylbenzene  
Concen: 0.259 ug/l  
RT: 11.890 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Tgt Ion: 105 Resp: 2193  
Ion Ratio Lower Upper  
105 100  
134 17.3 9.8 29.4

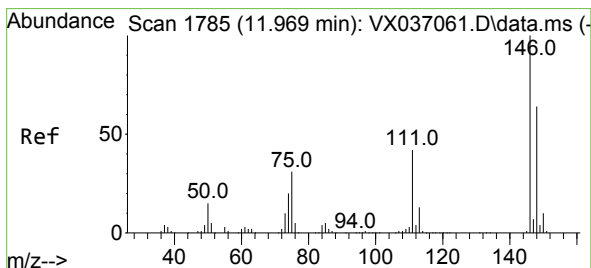
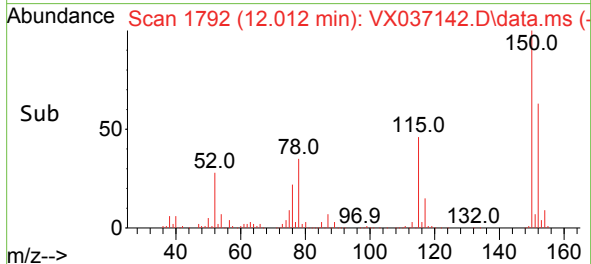
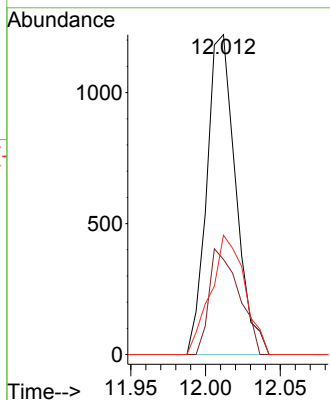
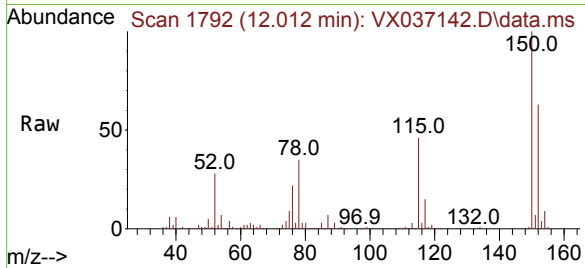




#86  
 p-Isopropyltoluene  
 Concen: 0.225 ug/l  
 RT: 12.012 min Scan# 1792  
 Delta R.T. 0.006 min  
 Lab File: VX037142.D  
 Acq: 21 Aug 2023 19:44

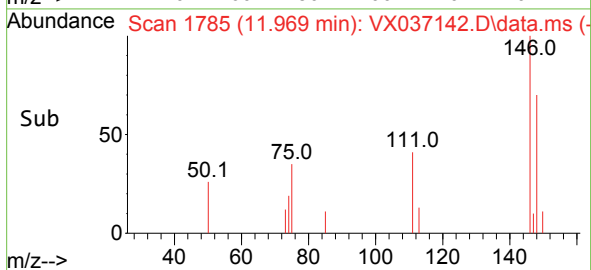
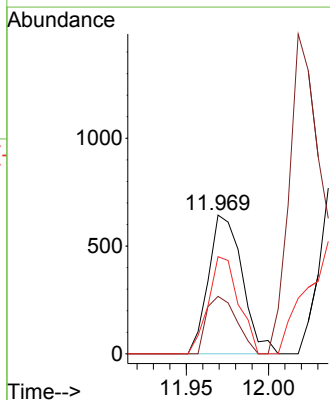
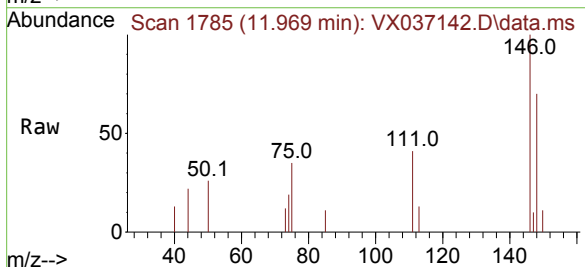
Instrument :  
 MSVOA\_X  
 ClientSampleId :

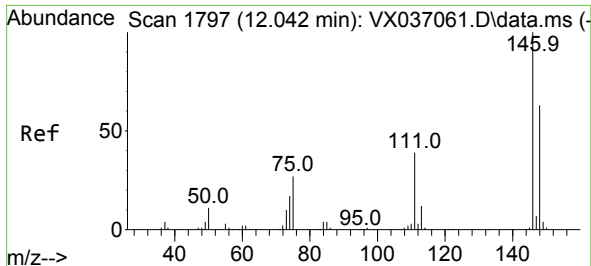
Tgt Ion:119 Resp: 1643  
 Ion Ratio Lower Upper  
 119 100  
 134 34.0 12.8 38.3  
 91 43.9 13.1 39.3#



#87  
 1,3-Dichlorobenzene  
 Concen: 0.220 ug/l  
 RT: 11.969 min Scan# 1785  
 Delta R.T. -0.000 min  
 Lab File: VX037142.D  
 Acq: 21 Aug 2023 19:44

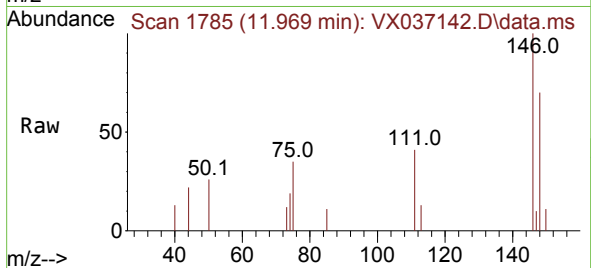
Tgt Ion:146 Resp: 919  
 Ion Ratio Lower Upper  
 146 100  
 111 36.8 22.1 66.1  
 148 62.8 31.8 95.3



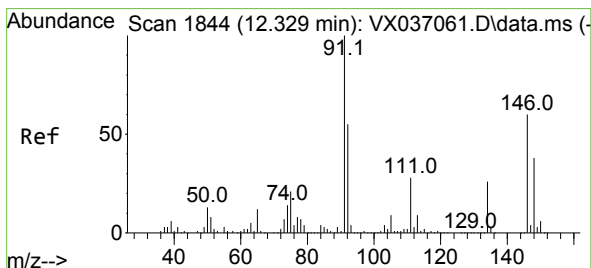
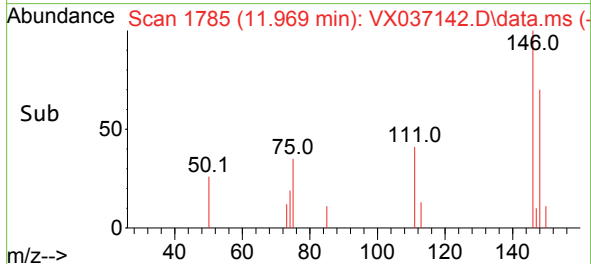
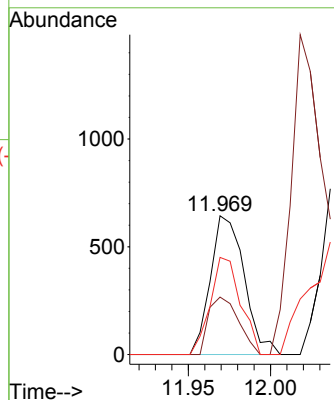


#88  
1,4-Dichlorobenzene  
Concen: 0.213 ug/l  
RT: 11.969 min Scan# 11  
Delta R.T. -0.073 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :

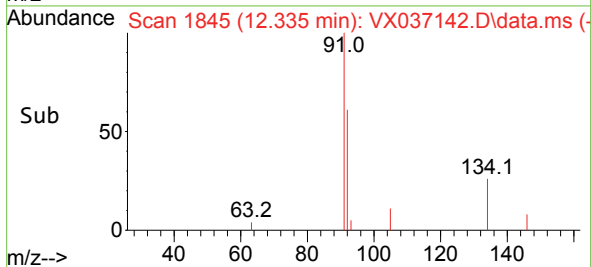
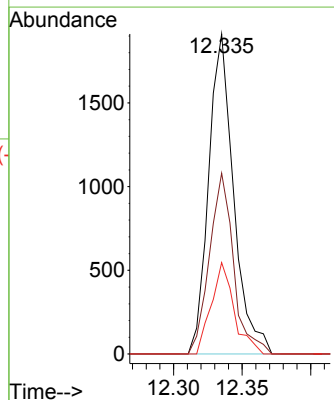
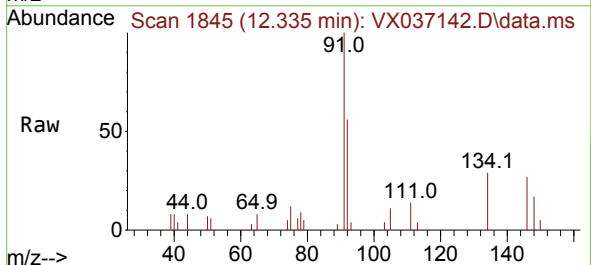


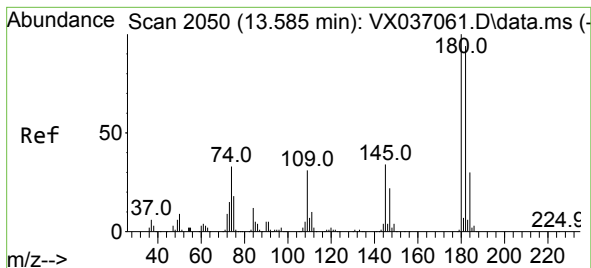
Tgt Ion:146 Resp: 919  
Ion Ratio Lower Upper  
146 100  
111 36.8 21.3 63.7  
148 62.8 31.8 95.4



#89  
n-Butylbenzene  
Concen: 0.401 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Tgt Ion: 91 Resp: 2424  
Ion Ratio Lower Upper  
91 100  
92 54.7 27.4 82.0  
134 26.2 12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.481 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX037142.D

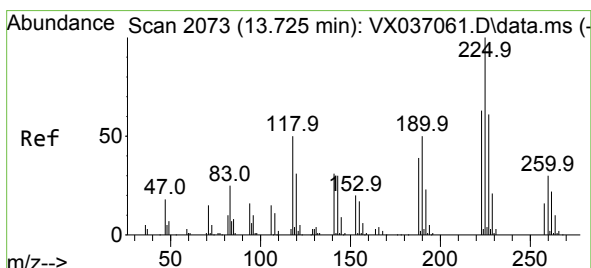
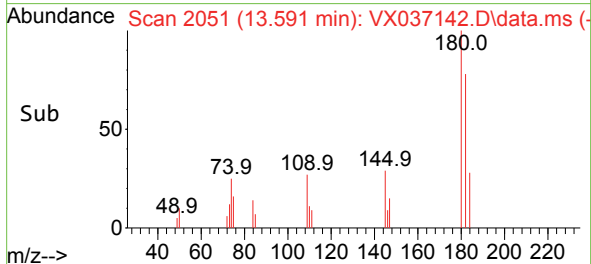
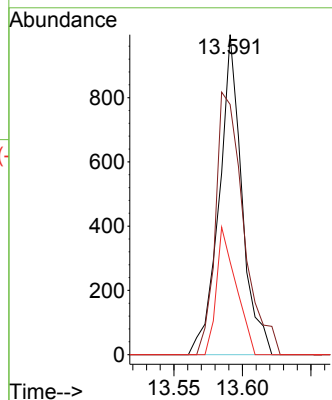
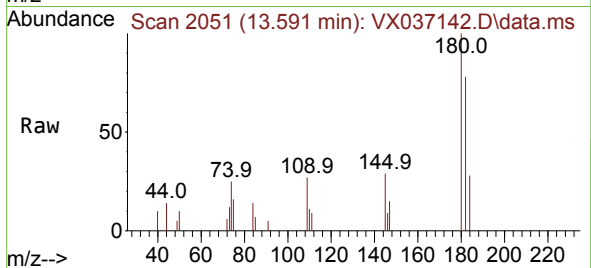
Acq: 21 Aug 2023 19:44

Instrument :

MSVOA\_X

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1150       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 100.9 | 48.3 144.8 |
| 145         | 34.2  | 18.0 54.0  |



#94

Hexachlorobutadiene

Concen: 1.491 ug/l

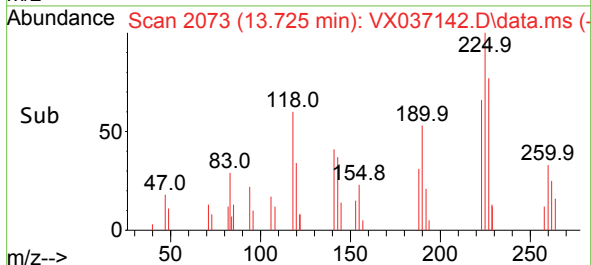
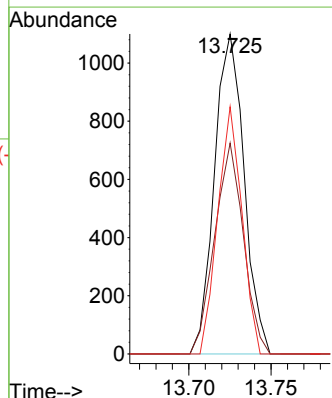
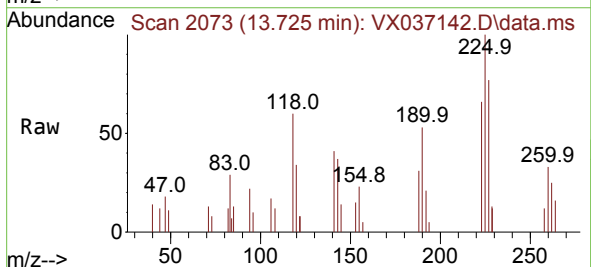
RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

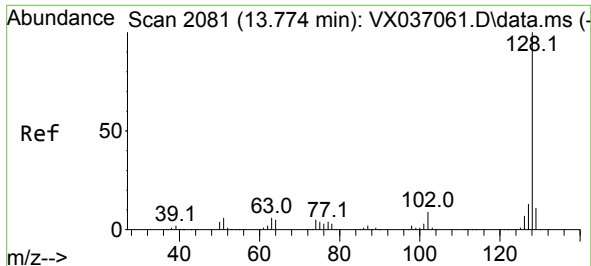
Lab File: VX037142.D

Acq: 21 Aug 2023 19:44

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 1377      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 63.9  | 31.1 93.2 |
| 227         | 63.0  | 32.5 97.5 |

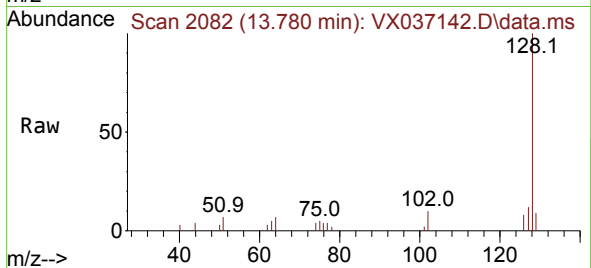




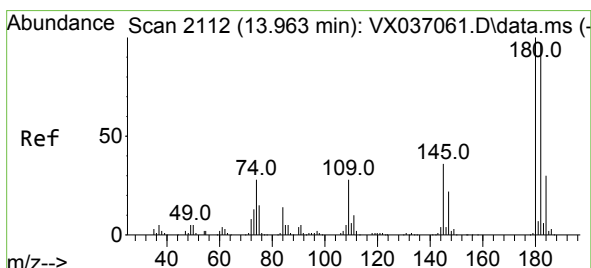
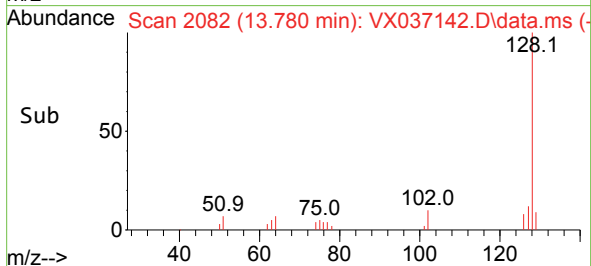
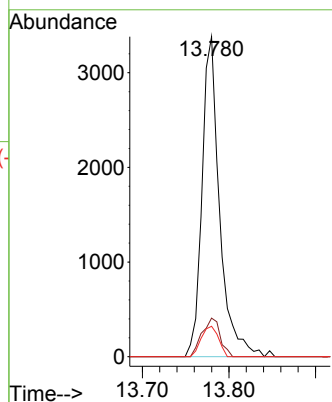


#95  
Naphthalene  
Concen: 0.456 ug/l  
RT: 13.780 min Scan# 2081  
Delta R.T. 0.006 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion:128 Resp: 4779  
Ion Ratio Lower Upper  
128 100  
127 12.4 10.3 15.5  
129 9.3 8.8 13.2



#96  
1,2,3-Trichlorobenzene  
Concen: 0.534 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. -0.000 min  
Lab File: VX037142.D  
Acq: 21 Aug 2023 19:44

Tgt Ion:180 Resp: 1269  
Ion Ratio Lower Upper  
180 100  
182 86.1 46.9 140.6  
145 32.7 17.8 53.5

