

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111623\  
 Data File : VX038859.D  
 Acq On : 16 Nov 2023 23:36  
 Operator : JC/MD  
 Sample : 05403-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Nov 17 03:22:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

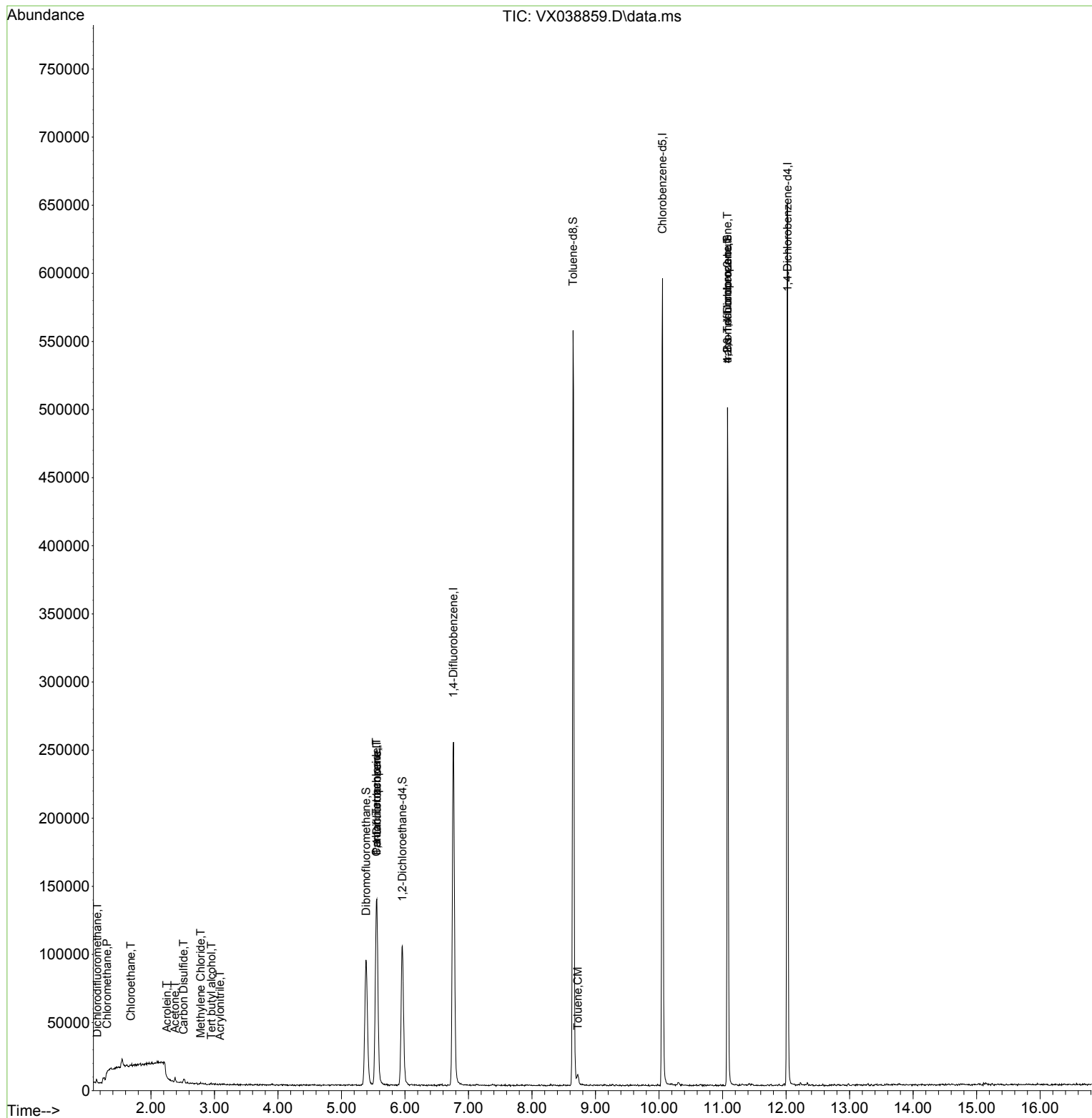
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 124895   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 260517   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 264363   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 131287   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 96331    | 47.867   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 95.740%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 81723    | 43.435   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 86.860%  |
| 50) Toluene-d8                | 8.647  | 98    | 331190   | 46.006   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 92.020%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 140739   | 48.839   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 97.680%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.154  | 85    | 361      | 0.248    | ug/l # | 41       |
| 3) Chloromethane              | 1.306  | 50    | 465      | 0.244    | ug/l # | 81       |
| 6) Chloroethane               | 1.684  | 64    | 238      | 0.228    | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.953  | 59    | 717      | 1.281    | ug/l # | 69       |
| 13) Acrolein                  | 2.251  | 56    | 225      | 0.760    | ug/l # | 14       |
| 15) Acrylonitrile             | 3.087  | 53    | 297      | 0.251    | ug/l # | 17       |
| 16) Acetone                   | 2.379  | 43    | 2428     | 2.266    | ug/l # | 77       |
| 17) Carbon Disulfide          | 2.514  | 76    | 2469     | 0.512    | ug/l # | 91       |
| 20) Methylene Chloride        | 2.782  | 84    | 484      | 0.251    | ug/l # | 76       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 11593    | 4.299    | ug/l # | 53       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 14223    | 5.707    | ug/l # | 14       |
| 52) Toluene                   | 8.720  | 92    | 2778     | 0.561    | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 71640    | 21.871   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 71640    | 48.512   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

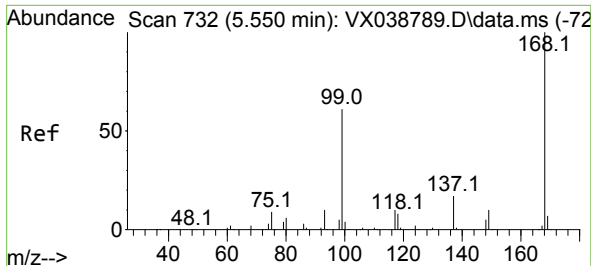
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111623\  
Data File : VX038859.D  
Acq On : 16 Nov 2023 23:36  
Operator : JC/MD  
Sample : 05403-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Nov 17 03:22:36 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 2023  
Response via : Initial Calibration

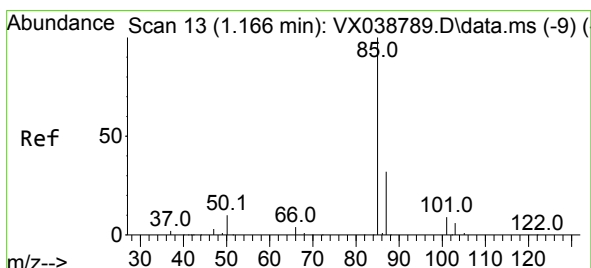
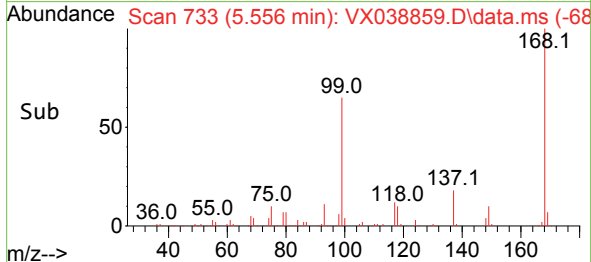
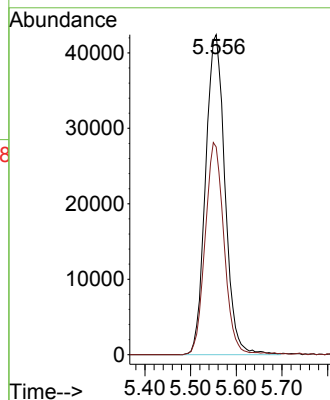
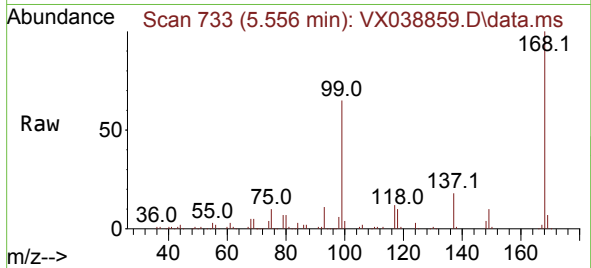




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

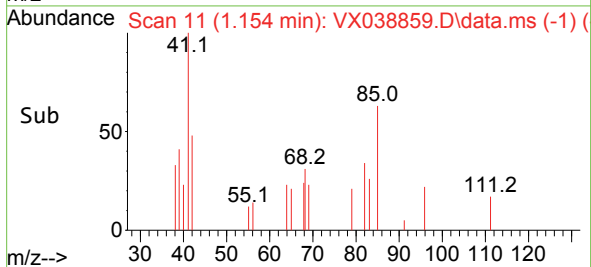
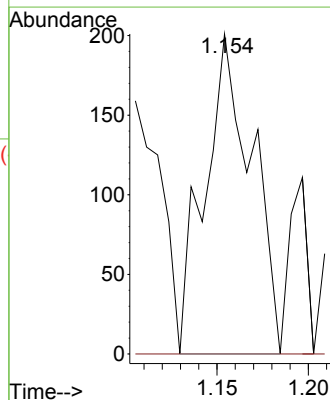
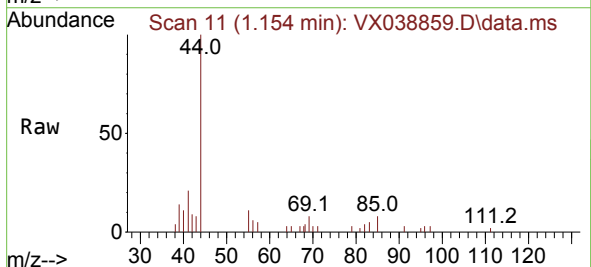
Instrument :  
MSVOA\_X  
ClientSampleId :

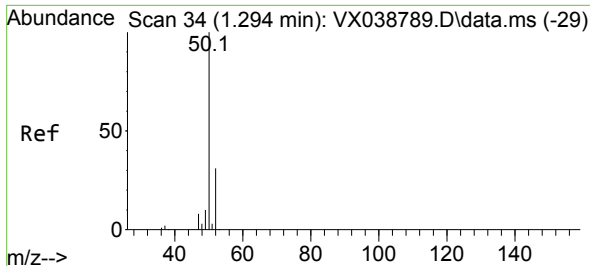
Tgt Ion:168 Resp: 124895  
Ion Ratio Lower Upper  
168 100  
99 64.9 56.6 85.0



#2  
Dichlorodifluoromethane  
Concen: 0.248 ug/l  
RT: 1.154 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

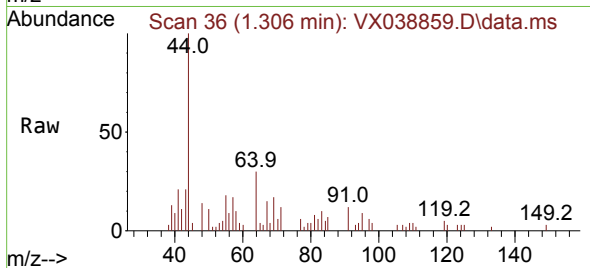
Tgt Ion: 85 Resp: 361  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.7 50.1#



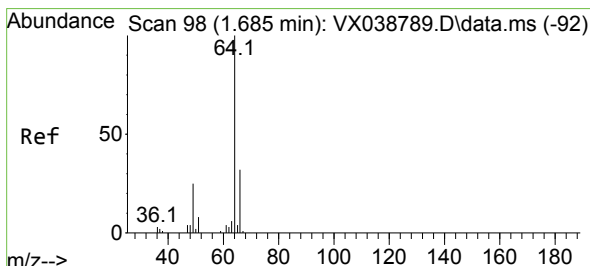
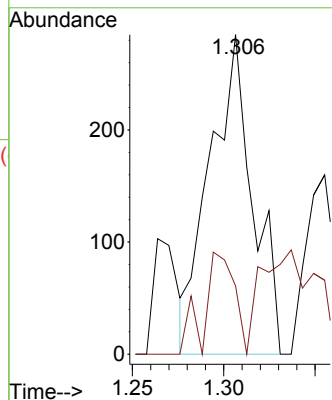
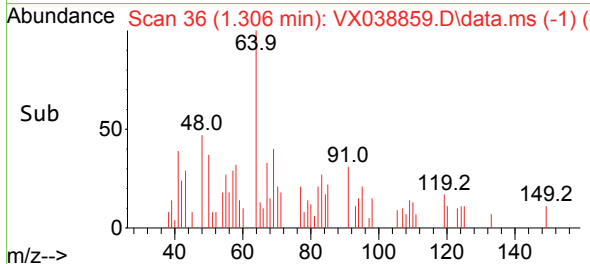


#3  
Chloromethane  
Concen: 0.244 ug/l  
RT: 1.306 min Scan# 30  
Delta R.T. 0.012 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Instrument :  
MSVOA\_X  
ClientSampleId :

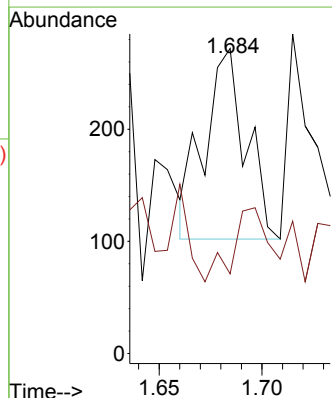
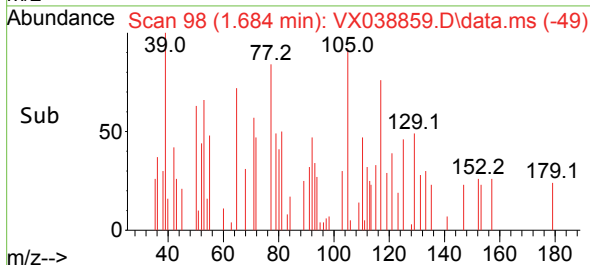
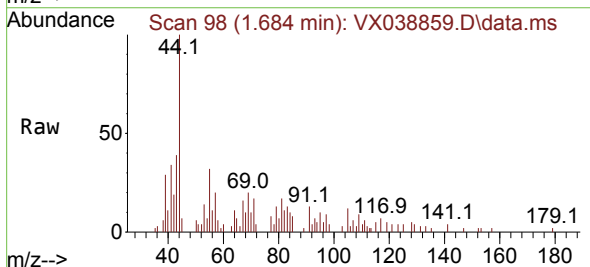


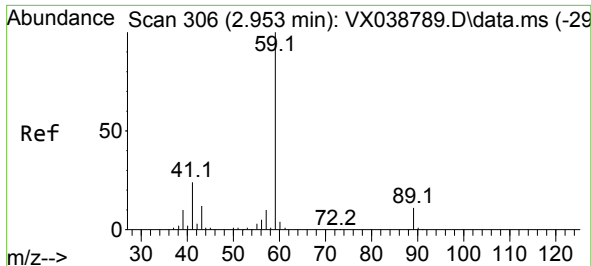
Tgt Ion: 50 Resp: 465  
Ion Ratio Lower Upper  
50 100  
52 21.4 25.5 38.3#



#6  
Chloroethane  
Concen: 0.228 ug/l  
RT: 1.684 min Scan# 98  
Delta R.T. -0.001 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Tgt Ion: 64 Resp: 238  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#

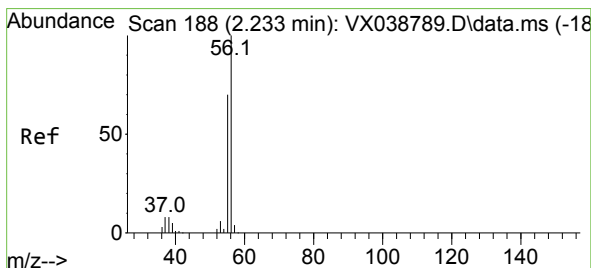
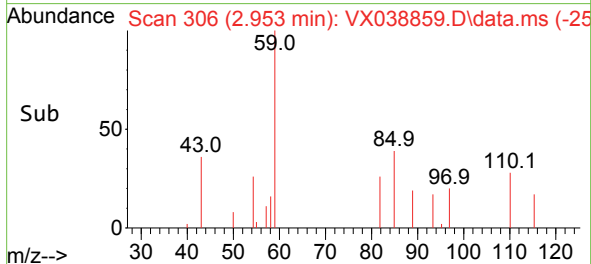
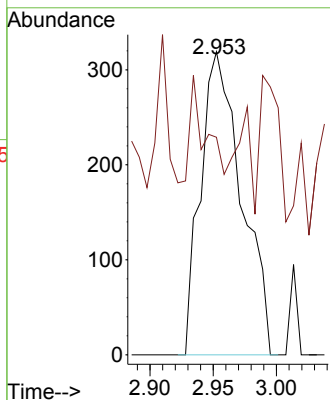
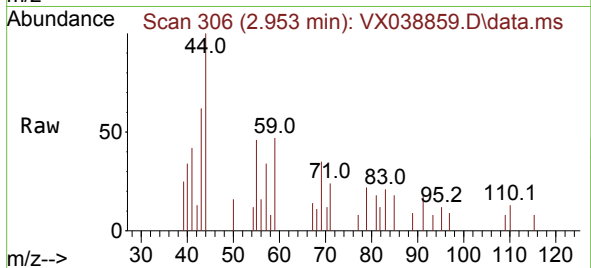




#11  
Tert butyl alcohol  
Concen: 1.281 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.000 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

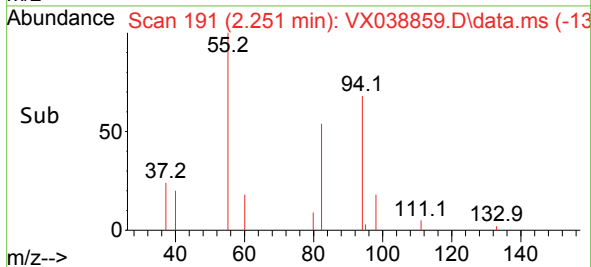
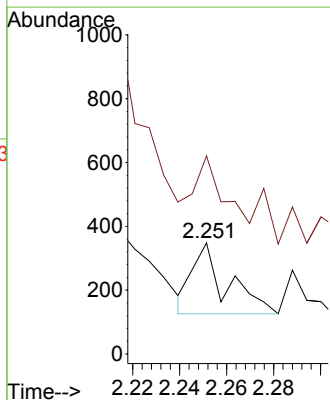
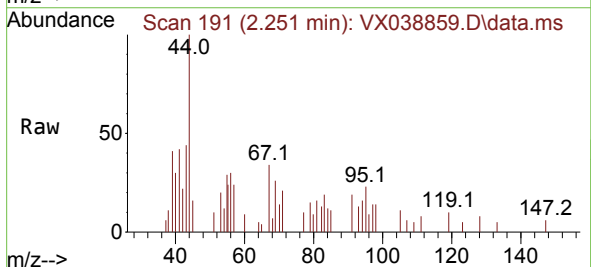
Instrument :  
MSVOA\_X  
ClientSampleId :

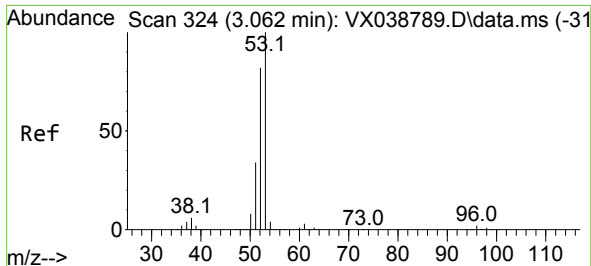
Tgt Ion: 59 Resp: 717  
Ion Ratio Lower Upper  
59 100  
57 18.3 6.0 9.0#



#13  
Acrolein  
Concen: 0.760 ug/l  
RT: 2.251 min Scan# 191  
Delta R.T. 0.018 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

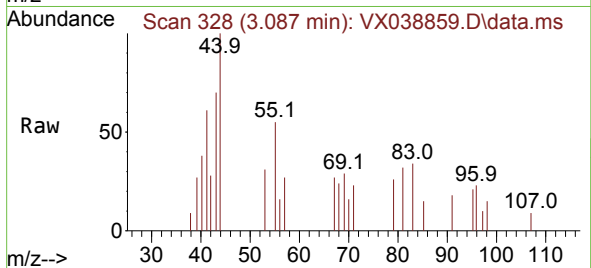
Tgt Ion: 56 Resp: 225  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



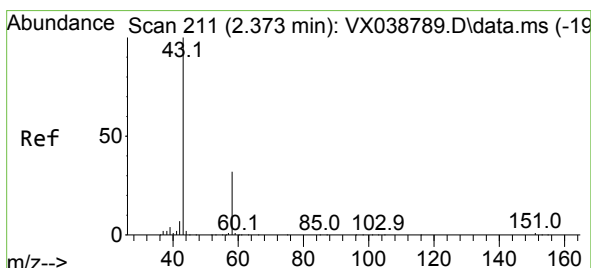
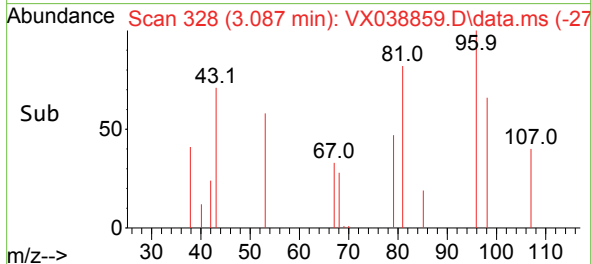
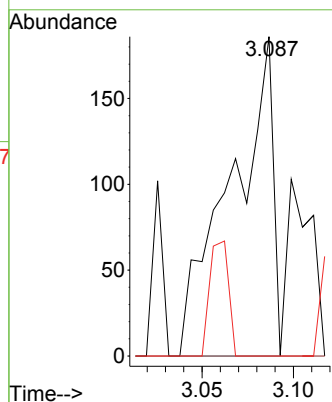


#15  
Acrylonitrile  
Concen: 0.251 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. 0.024 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Instrument :  
MSVOA\_X  
ClientSampleId :

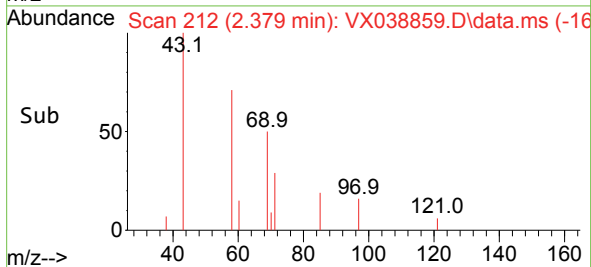
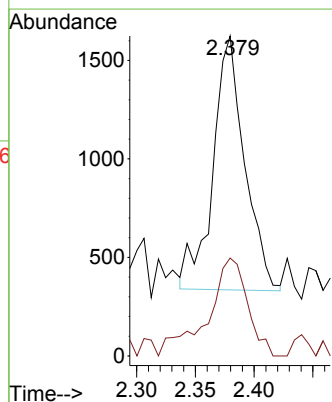
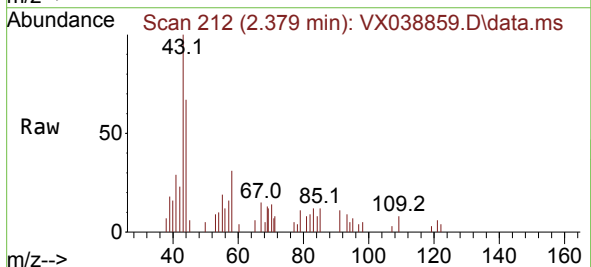


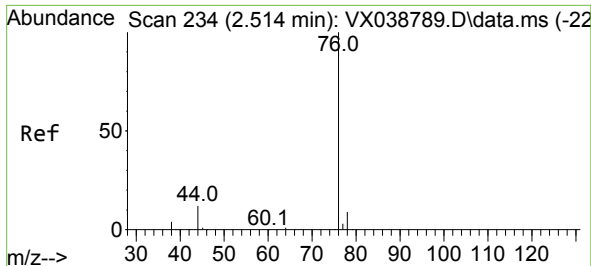
Tgt Ion: 53 Resp: 297  
Ion Ratio Lower Upper  
53 100  
52 0.0 66.0 99.0#  
51 0.0 29.8 44.6#



#16  
Acetone  
Concen: 2.266 ug/l  
RT: 2.379 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Tgt Ion: 43 Resp: 2428  
Ion Ratio Lower Upper  
43 100  
58 39.2 21.9 32.9#





#17

Carbon Disulfide

Concen: 0.512 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX038859.D

Acq: 16 Nov 2023 23:36

Instrument :

MSVOA\_X

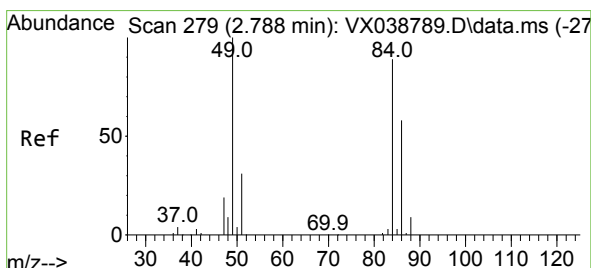
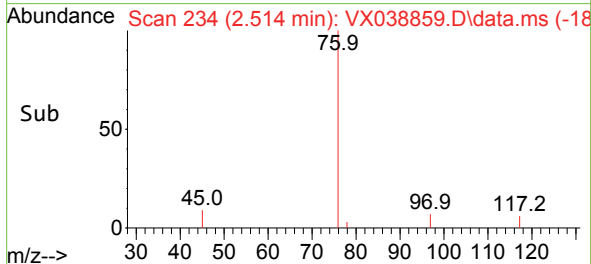
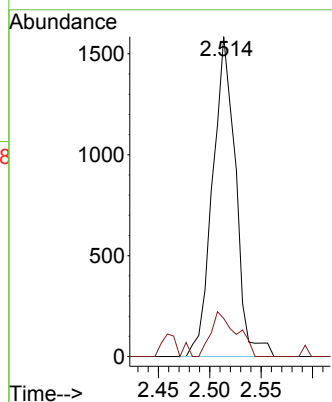
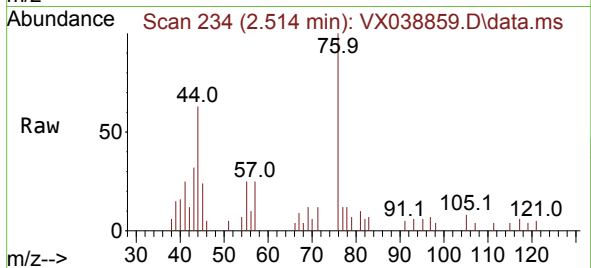
ClientSampleId :

Tgt Ion: 76 Resp: 2469

Ion Ratio Lower Upper

76 100

78 11.9 7.0 10.6#



#20

Methylene Chloride

Concen: 0.251 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX038859.D

Acq: 16 Nov 2023 23:36

Tgt Ion: 84 Resp: 484

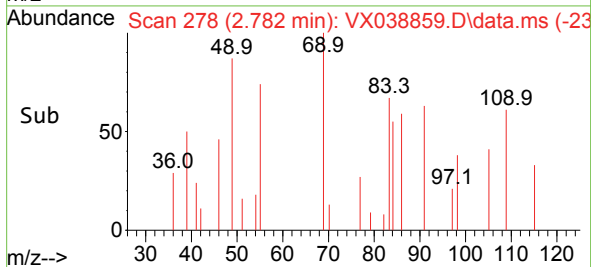
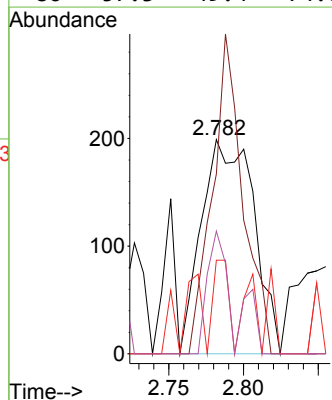
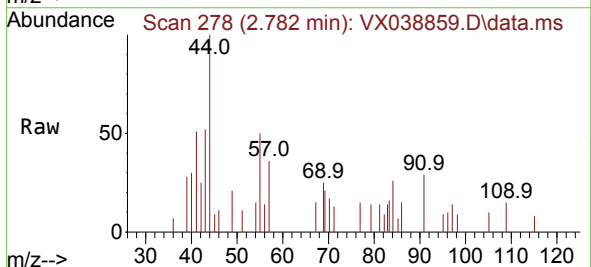
Ion Ratio Lower Upper

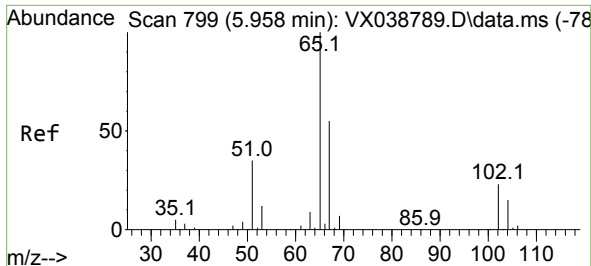
84 100

49 83.9 103.6 155.4#

51 43.7 33.8 50.6

86 57.3 49.4 74.0





#33

1,2-Dichloroethane-d4

Concen: 47.867 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX038859.D

Acq: 16 Nov 2023 23:36

Instrument :

MSVOA\_X

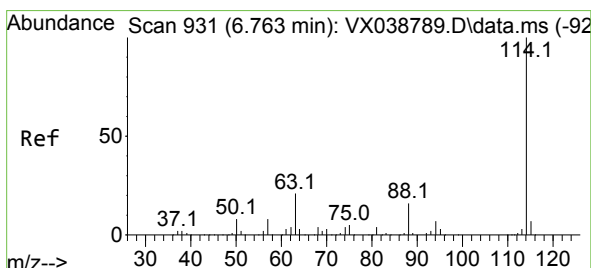
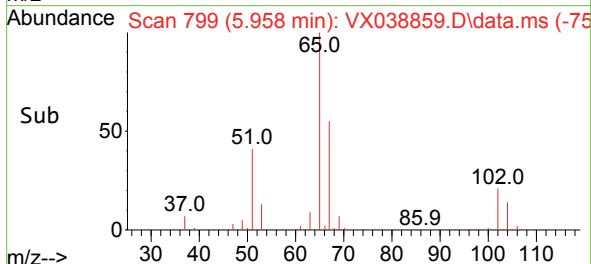
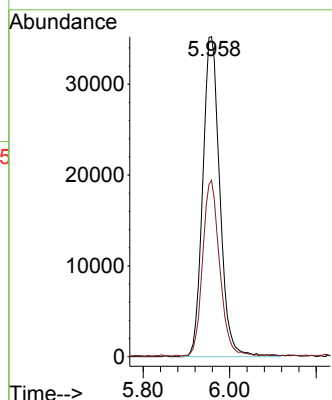
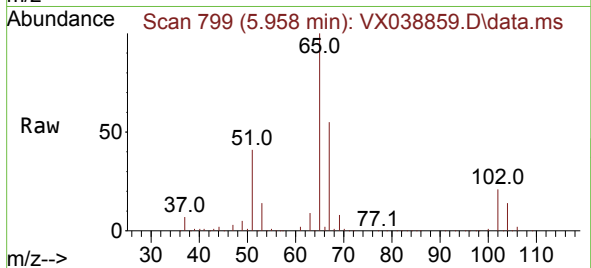
ClientSampleId :

Tgt Ion: 65 Resp: 96331

Ion Ratio Lower Upper

65 100

67 54.4 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX038859.D

Acq: 16 Nov 2023 23:36

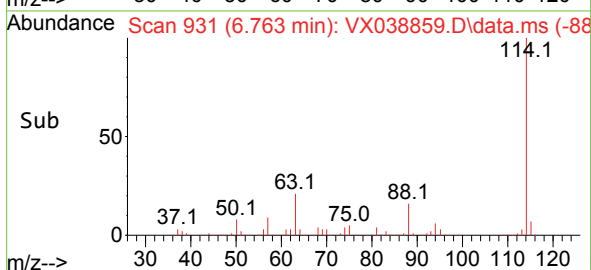
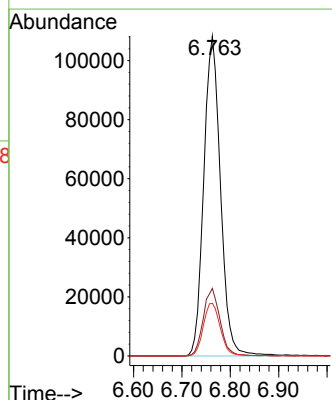
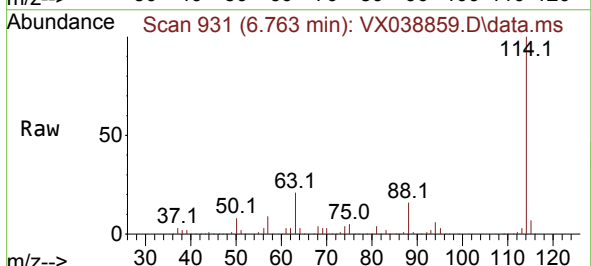
Tgt Ion: 114 Resp: 260517

Ion Ratio Lower Upper

114 100

63 21.1 0.0 45.0

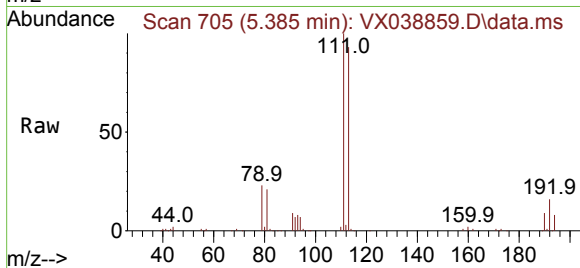
88 16.5 0.0 36.6



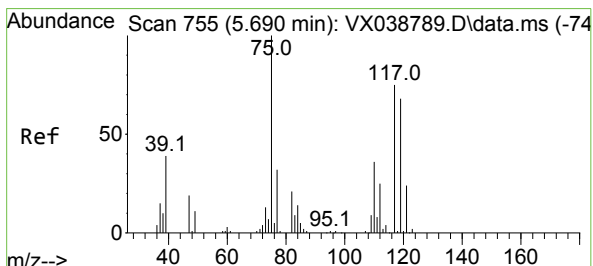
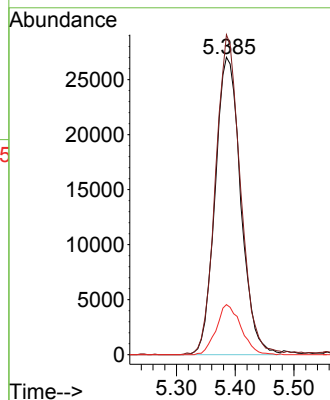
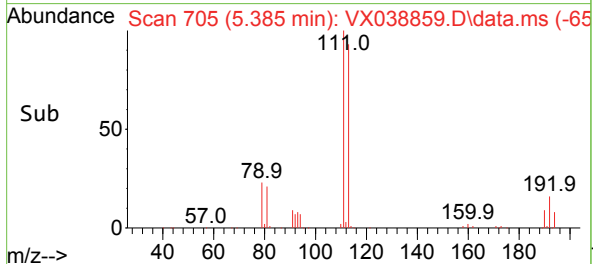


#35  
Dibromofluoromethane  
Concen: 43.435 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Instrument :  
MSVOA\_X  
ClientSampleId :

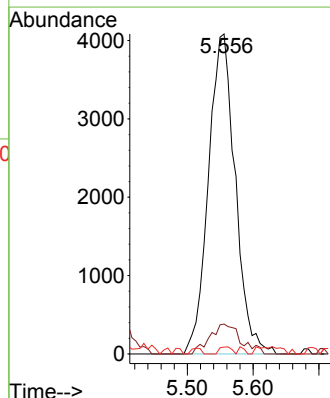
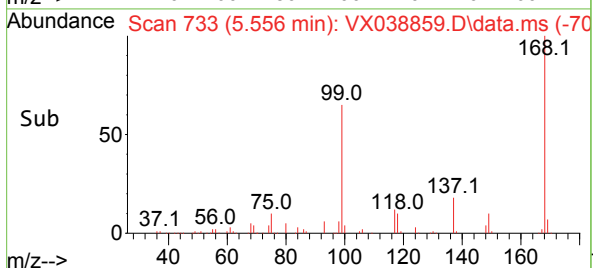
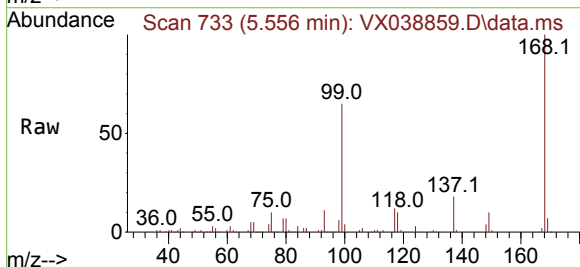


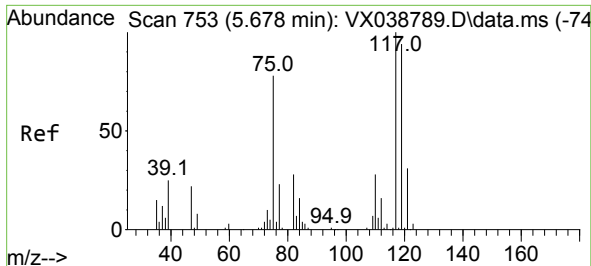
Tgt Ion:113 Resp: 81723  
Ion Ratio Lower Upper  
113 100  
111 104.6 82.9 124.3  
192 16.3 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.299 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

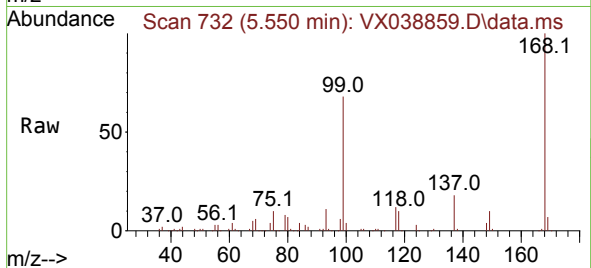
Tgt Ion: 75 Resp: 11593  
Ion Ratio Lower Upper  
75 100  
110 10.8 17.0 50.9#  
77 1.0 24.7 37.1#



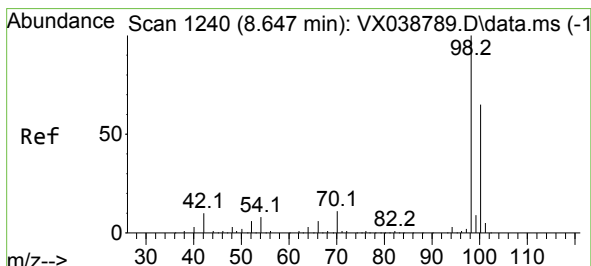
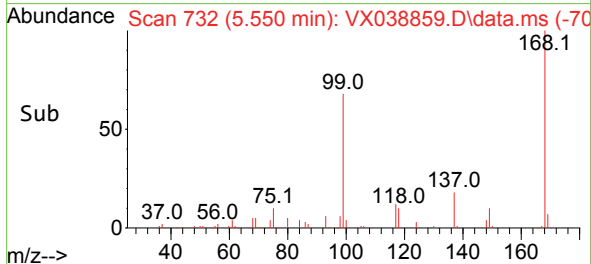
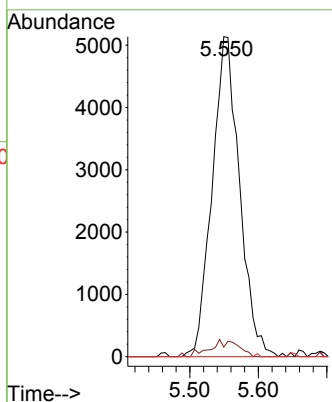


#38  
Carbon Tetrachloride  
Concen: 5.707 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Instrument :  
MSVOA\_X  
ClientSampleId :

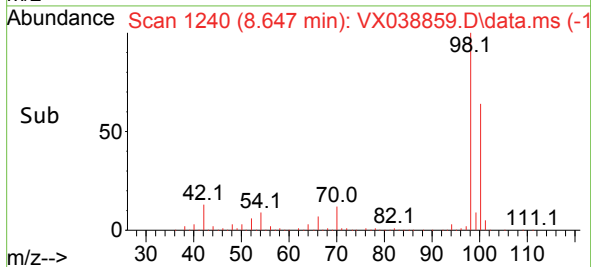
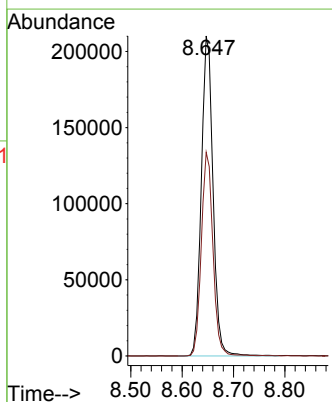
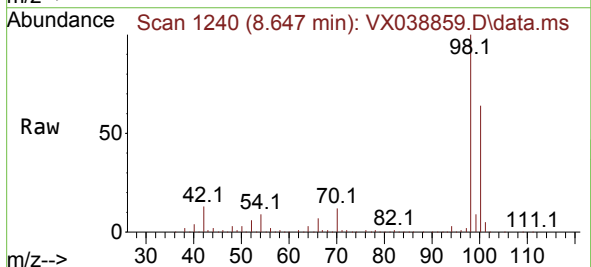


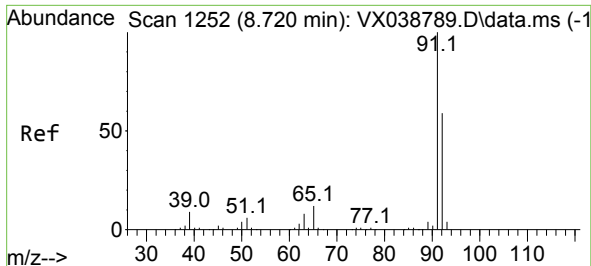
Tgt Ion:117 Resp: 14223  
Ion Ratio Lower Upper  
117 100  
119 3.0 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 46.006 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Tgt Ion: 98 Resp: 331190  
Ion Ratio Lower Upper  
98 100  
100 63.4 53.1 79.7

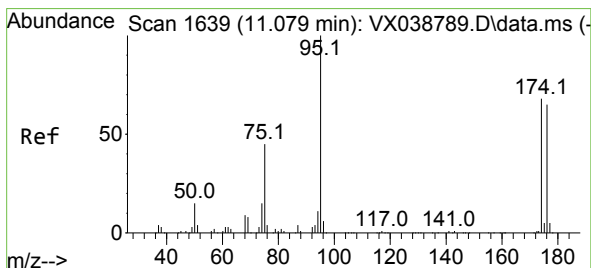
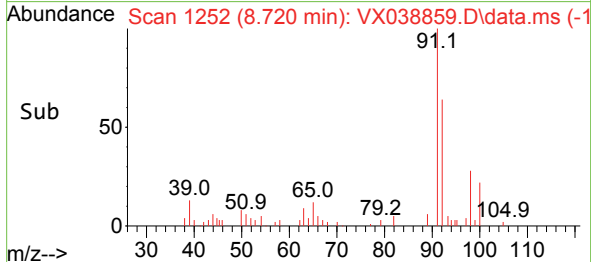
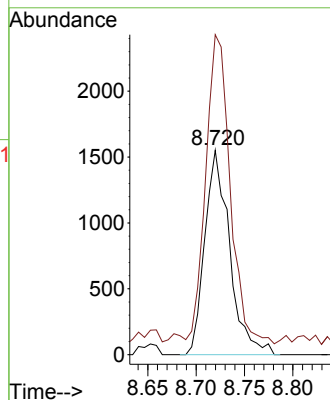
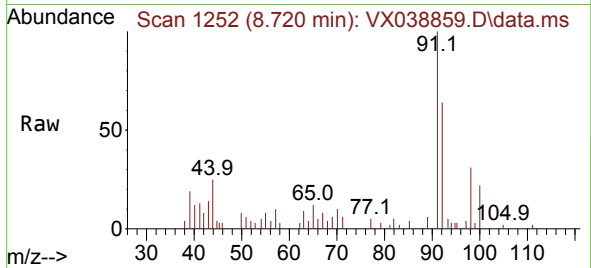




#52  
Toluene  
Concen: 0.561 ug/l  
RT: 8.720 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

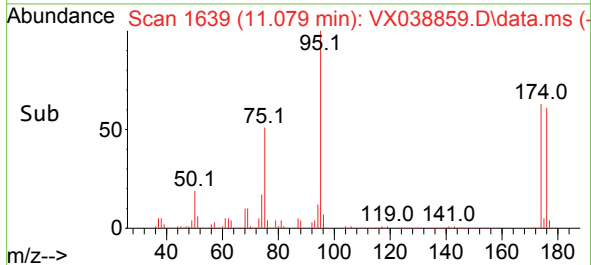
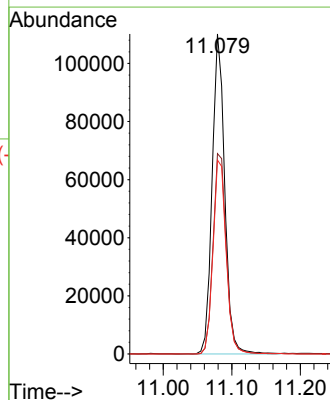
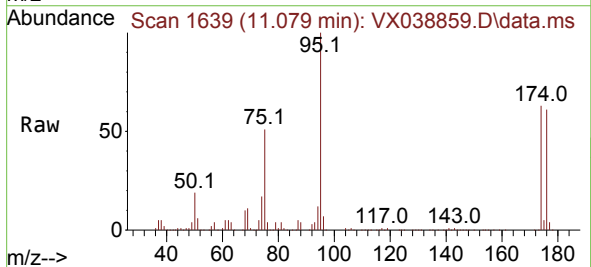
Instrument :  
MSVOA\_X  
ClientSampleId :

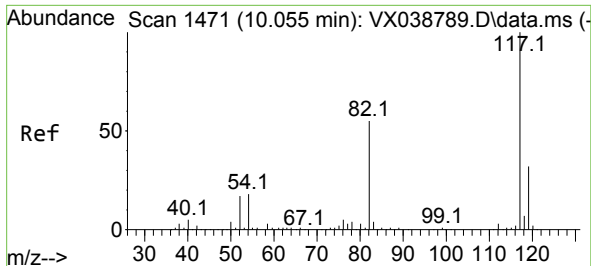
Tgt Ion: 92 Resp: 2778  
Ion Ratio Lower Upper  
92 100  
91 153.8 134.2 201.2



#62  
4-Bromofluorobenzene  
Concen: 48.839 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Tgt Ion: 95 Resp: 140739  
Ion Ratio Lower Upper  
95 100  
174 66.0 0.0 135.6  
176 63.4 0.0 131.0

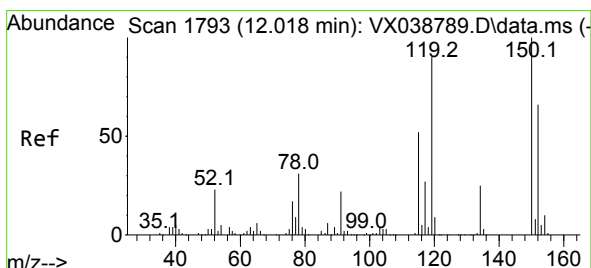
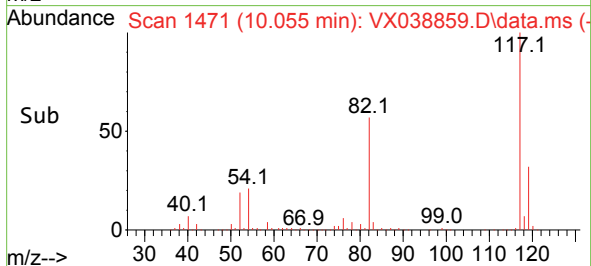
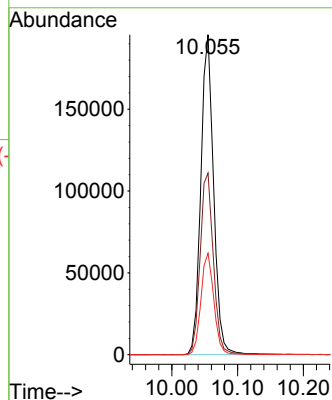
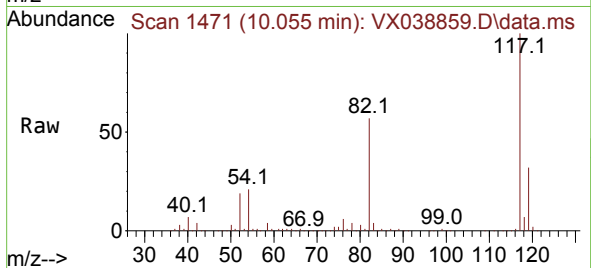




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

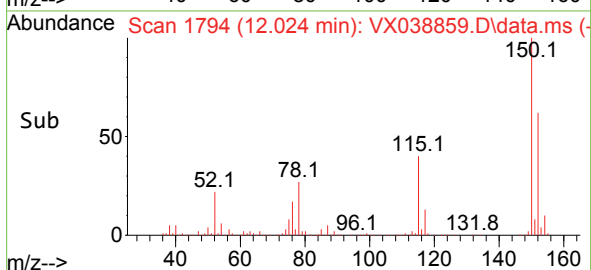
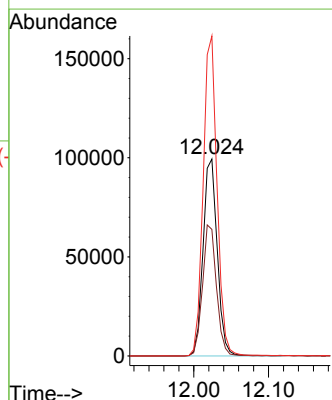
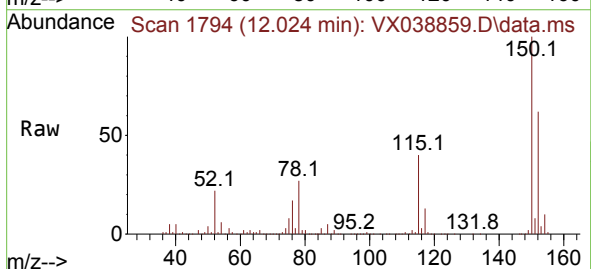
Instrument :  
MSVOA\_X  
ClientSampleId :

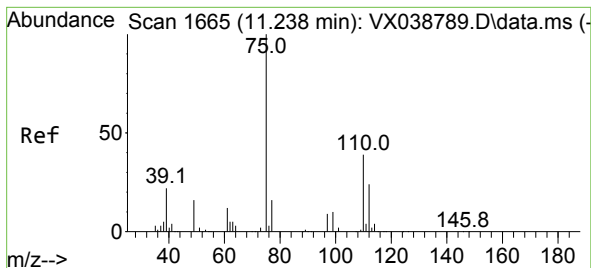
Tgt Ion:117 Resp: 264363  
Ion Ratio Lower Upper  
117 100  
82 56.7 46.2 69.4  
119 31.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.006 min  
Lab File: VX038859.D  
Acq: 16 Nov 2023 23:36

Tgt Ion:152 Resp: 131287  
Ion Ratio Lower Upper  
152 100  
115 65.4 43.3 129.9  
150 158.5 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 21.871 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX038859.D

Acq: 16 Nov 2023 23:36

Instrument :

MSVOA\_X

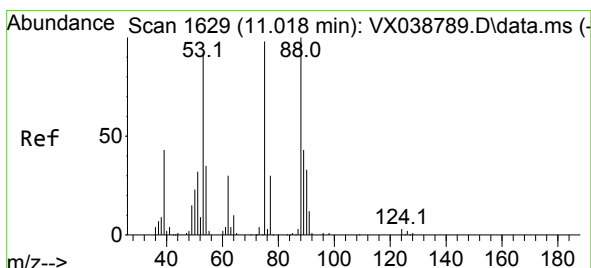
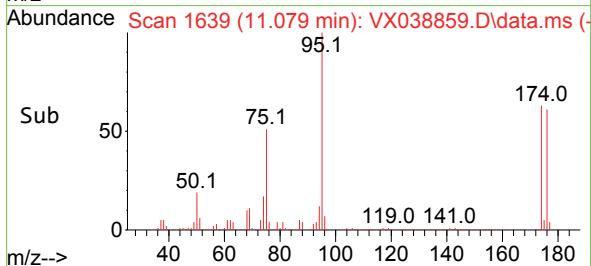
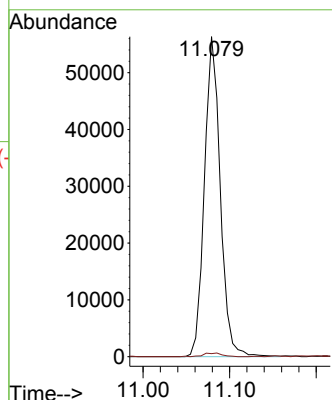
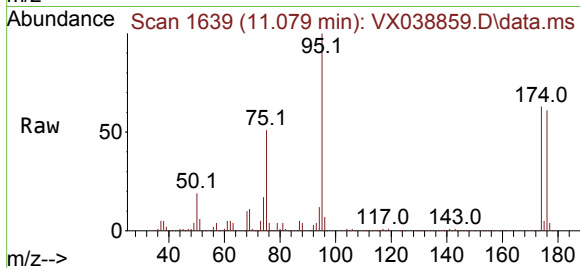
ClientSampleId :

Tgt Ion: 75 Resp: 71640

Ion Ratio Lower Upper

75 100

77 1.4 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 48.512 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX038859.D

Acq: 16 Nov 2023 23:36

Tgt Ion: 75 Resp: 71640

Ion Ratio Lower Upper

75 100

53 0.2 90.5 135.7#

89 0.0 36.9 55.3#

