

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090923\  
 Data File : VX037627.D  
 Acq On : 09 Sep 2023 14:59  
 Operator : JC/MD  
 Sample : 04315-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TOWER-1

Quant Time: Sep 11 01:22:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090823W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 09 06:38:11 2023  
 Response via : Initial Calibration

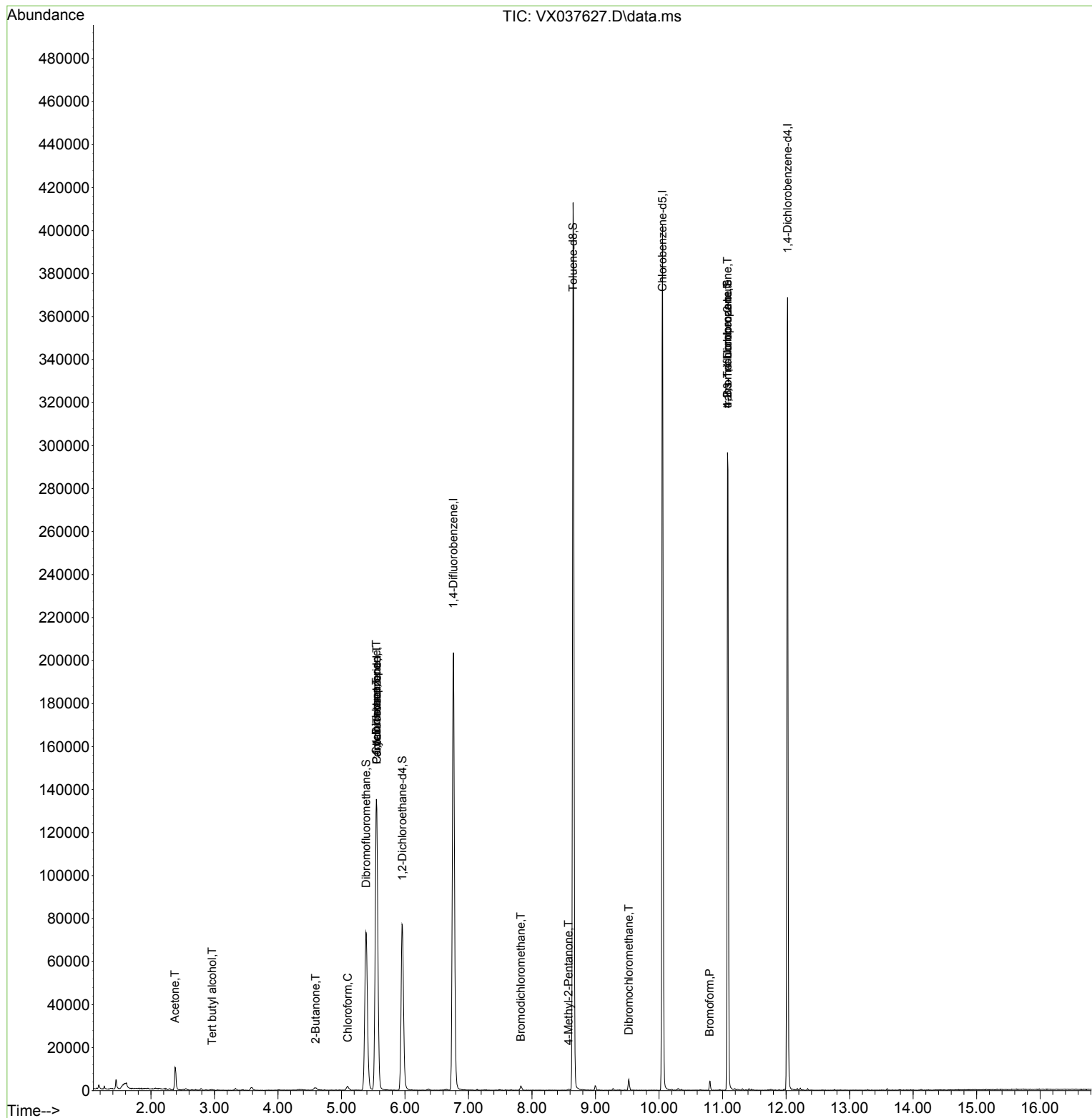
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 133249   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 221533   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 194475   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 82763    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 75951    | 42.226    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 84.460%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 67782    | 43.745    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 87.480%  |
| 50) Toluene-d8                | 8.647  | 98    | 258811   | 45.540    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 91.080%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 89697    | 41.878    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 83.760%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 2.965  | 59    | 420      | 1.043     | ug/l # | 78       |
| 16) Acetone                   | 2.380  | 43    | 11444    | 15.471    | ug/l # | 87       |
| 20) Methylene Chloride        | 2.788  | 84    | 386      | Below Cal | #      | 64       |
| 25) 2-Butanone                | 4.593  | 43    | 1596     | 1.423     | ug/l # | 79       |
| 30) Chloroform                | 5.099  | 83    | 2395     | 0.806     | ug/l   | 93       |
| 31) Cyclohexane               | 5.550  | 56    | 2354     | 1.076     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 9723     | 4.750     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 13548    | 6.404     | ug/l # | 15       |
| 47) Bromodichloromethane      | 7.824  | 83    | 1598     | 0.755     | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43    | 827      | 0.414     | ug/l # | 37       |
| 60) Dibromochloromethane      | 9.525  | 129   | 2467     | 1.457     | ug/l   | 97       |
| 71) Bromoform                 | 10.799 | 173   | 1755     | 1.703     | ug/l # | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 41589    | 21.465    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 41589    | 64.144    | ug/l # | 5        |
| -----                         |        |       |          |           |        |          |

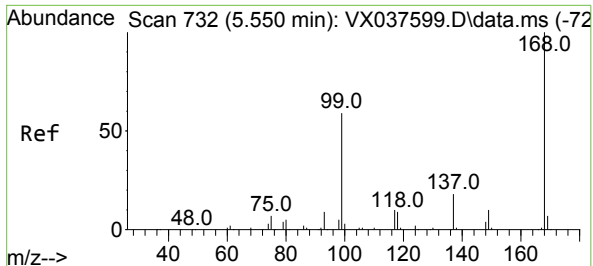
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 09 06:38:11 2023  
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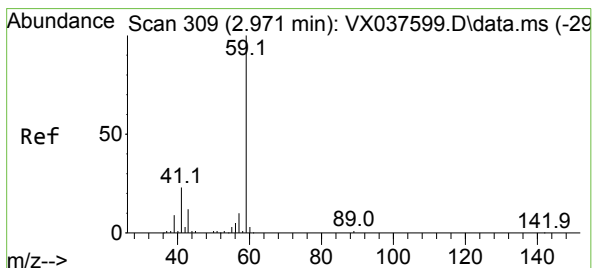
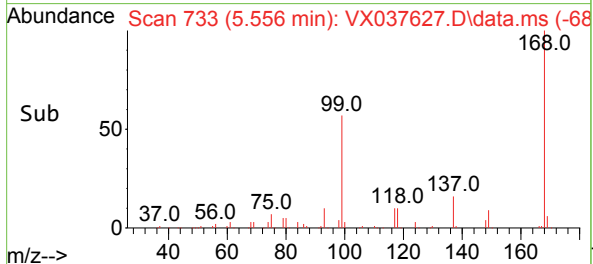
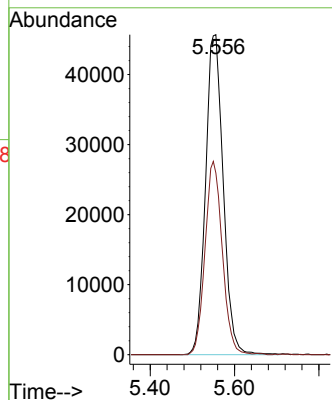
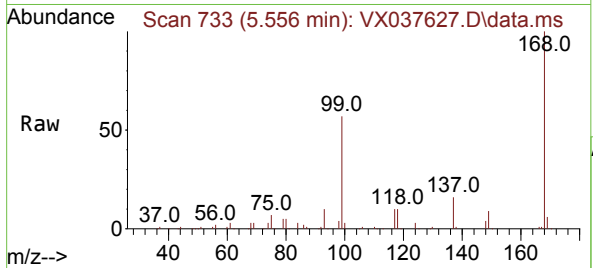




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

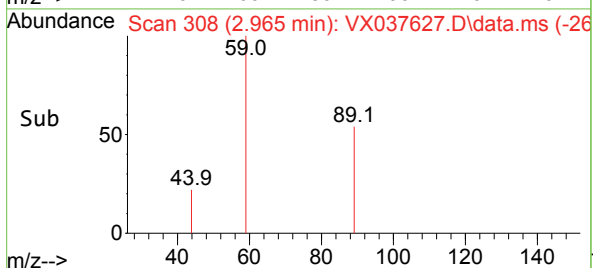
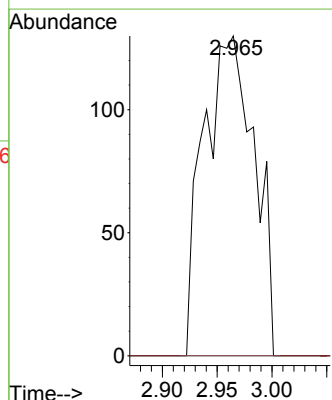
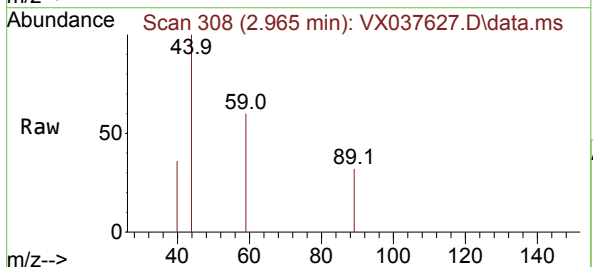
Instrument :  
MSVOA\_X  
ClientSampleId :  
TOWER-1

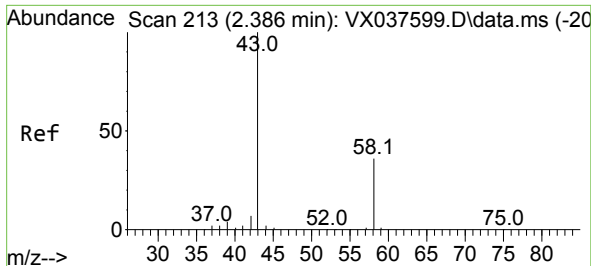
Tgt Ion:168 Resp: 133249  
Ion Ratio Lower Upper  
168 100  
99 56.7 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 1.043 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. -0.006 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 59 Resp: 420  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

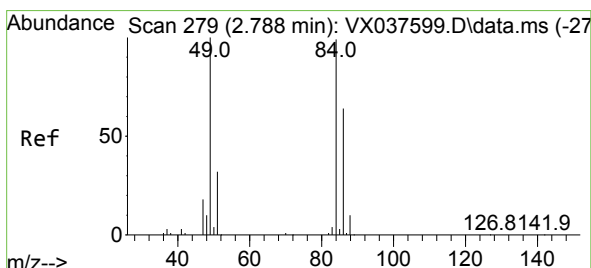
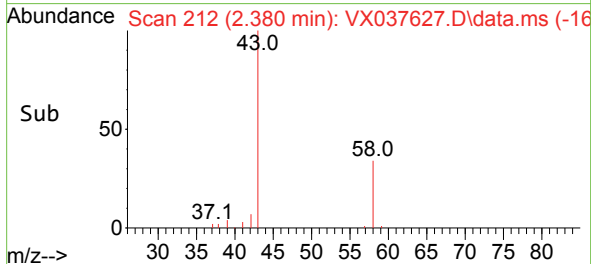
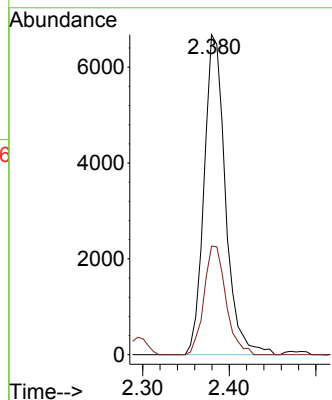
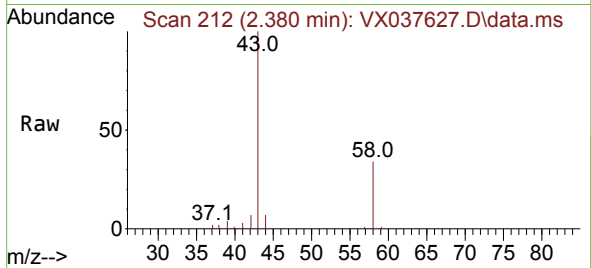




#16  
Acetone  
Concen: 15.471 ug/l  
RT: 2.380 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

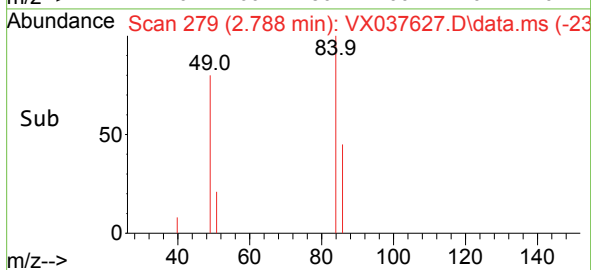
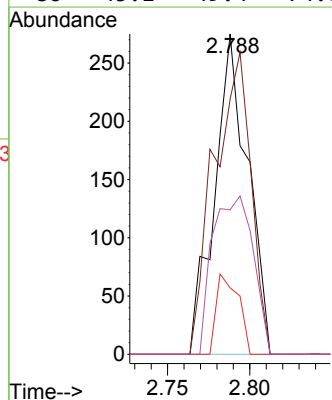
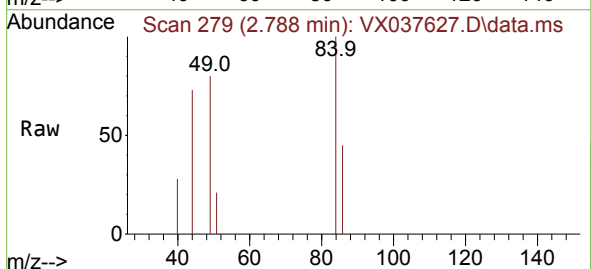
Instrument :  
MSVOA\_X  
ClientSampleId :  
TOWER-1

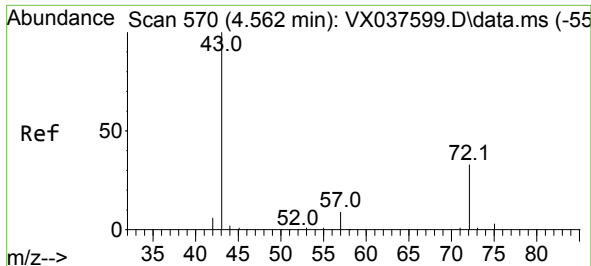
Tgt Ion: 43 Resp: 11444  
Ion Ratio Lower Upper  
43 100  
58 34.0 21.9 32.9#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 84 Resp: 386  
Ion Ratio Lower Upper  
84 100  
49 79.6 103.6 155.4#  
51 20.7 33.8 50.6#  
86 45.1 49.4 74.0#

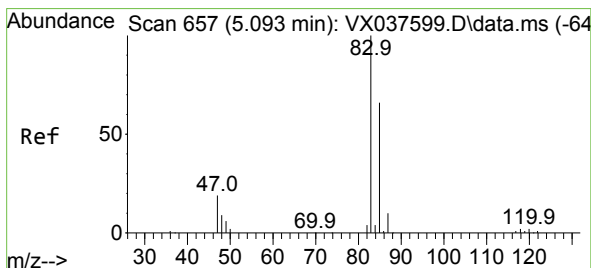
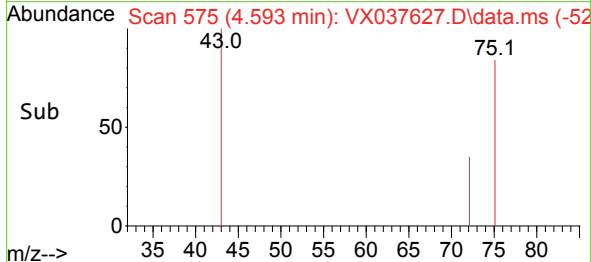
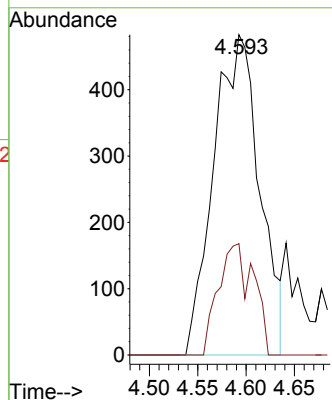
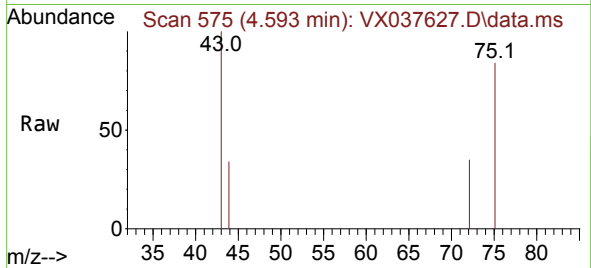




#25  
2-Butanone  
Concen: 1.423 ug/l  
RT: 4.593 min Scan# 51  
Delta R.T. 0.030 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

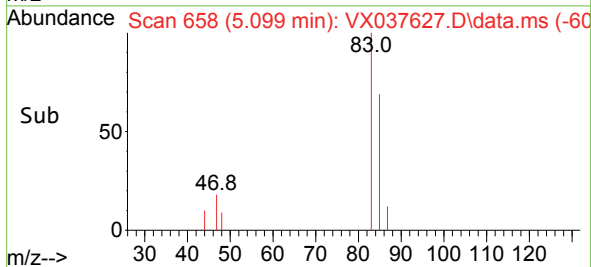
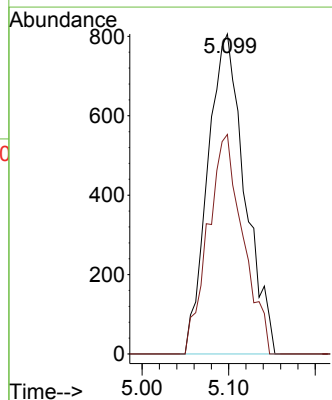
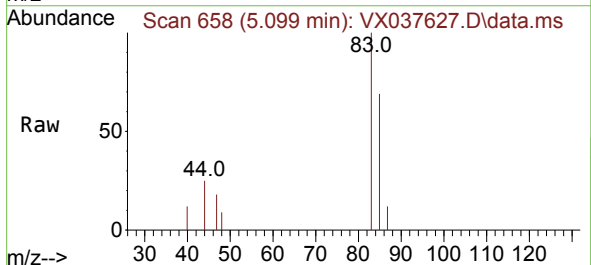
Instrument :  
MSVOA\_X  
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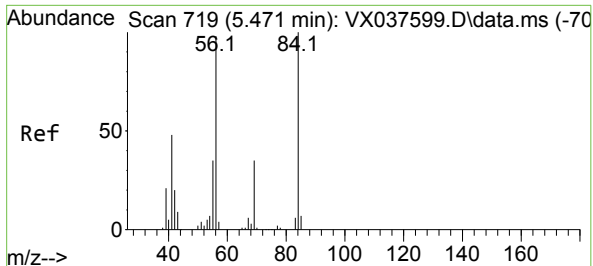
Tgt Ion: 43 Resp: 1596  
Ion Ratio Lower Upper  
43 100  
72 34.8 19.4 29.2#



#30  
Chloroform  
Concen: 0.806 ug/l  
RT: 5.099 min Scan# 658  
Delta R.T. 0.006 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 83 Resp: 2395  
Ion Ratio Lower Upper  
83 100  
85 68.6 50.3 75.5

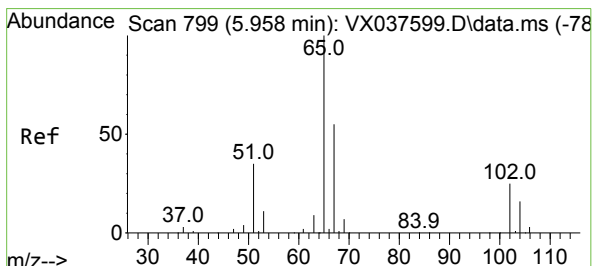
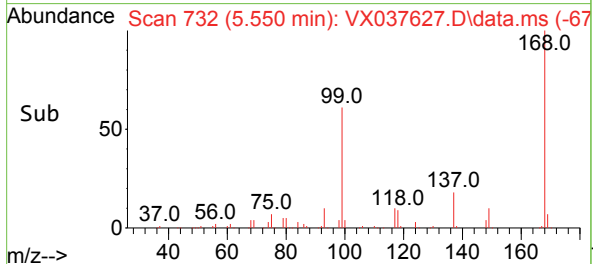
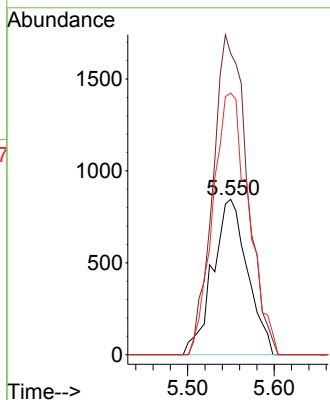
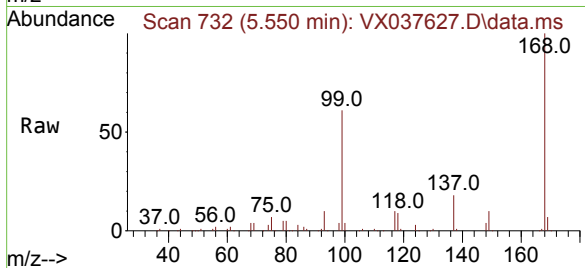




#31  
Cyclohexane  
Concen: 1.076 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

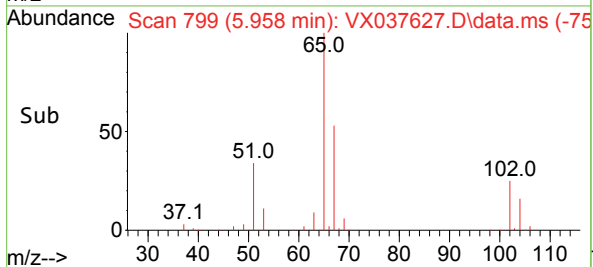
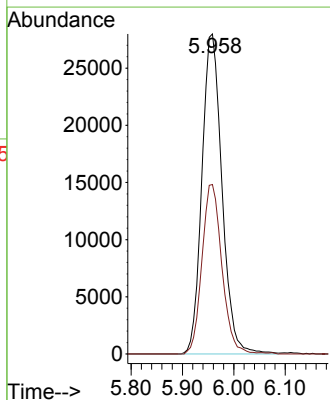
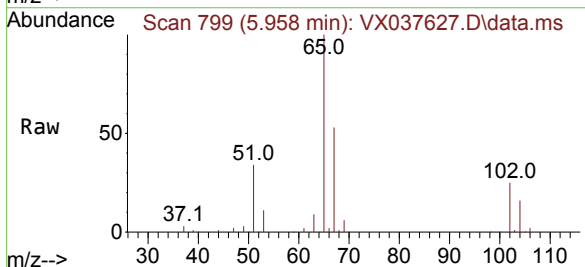
Instrument :  
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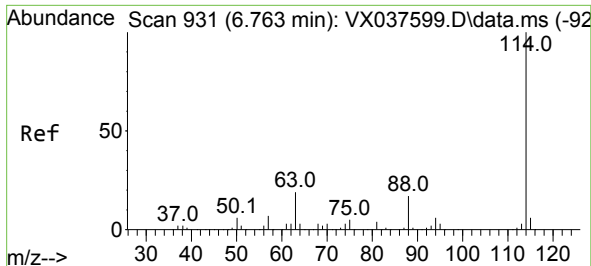
Tgt Ion: 56 Resp: 2354  
Ion Ratio Lower Upper  
56 100  
69 193.8 23.4 35.2#  
84 168.4 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 42.226 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 65 Resp: 75951  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 100.2

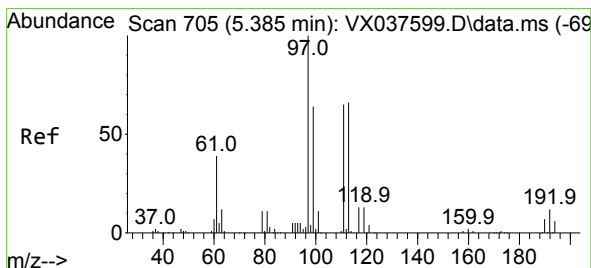
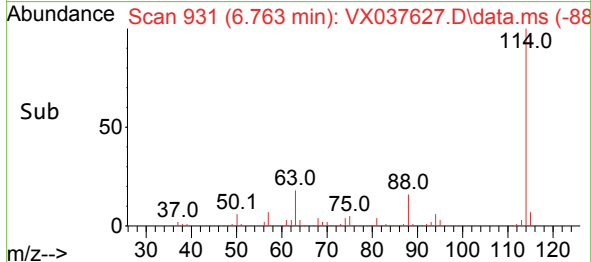
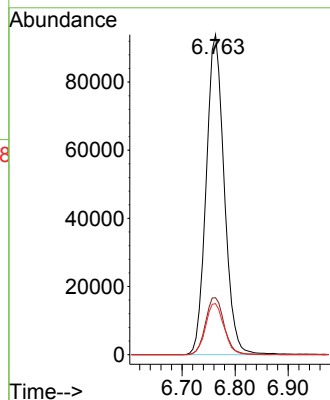
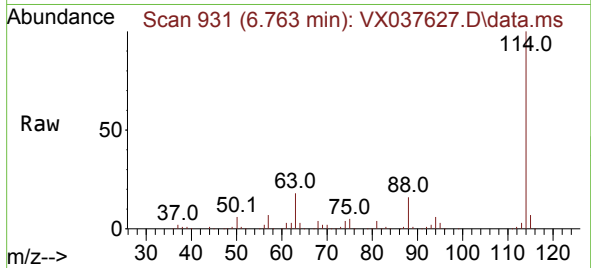




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

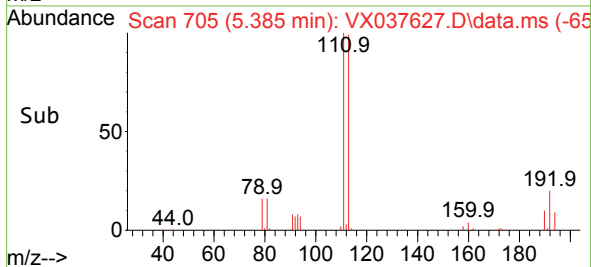
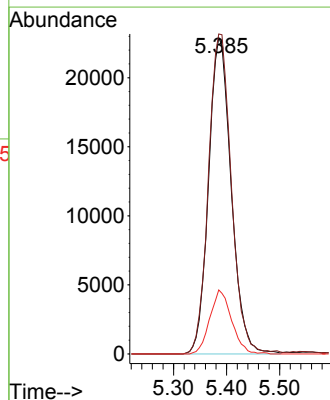
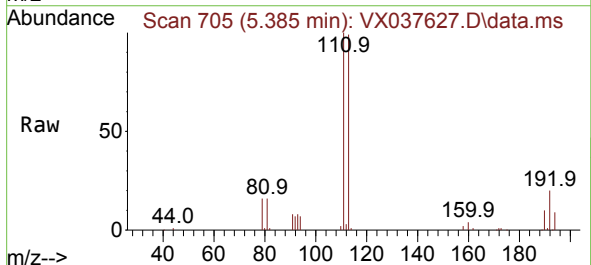
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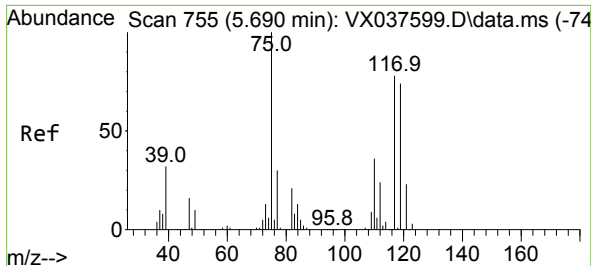
Tgt Ion:114 Resp: 221533  
Ion Ratio Lower Upper  
114 100  
63 17.8 0.0 45.0  
88 15.9 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 43.745 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion:113 Resp: 67782  
Ion Ratio Lower Upper  
113 100  
111 102.7 82.9 124.3  
192 19.5 13.3 19.9

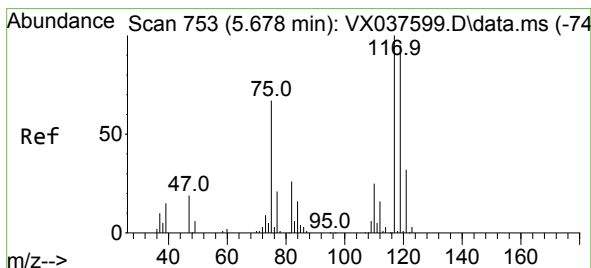
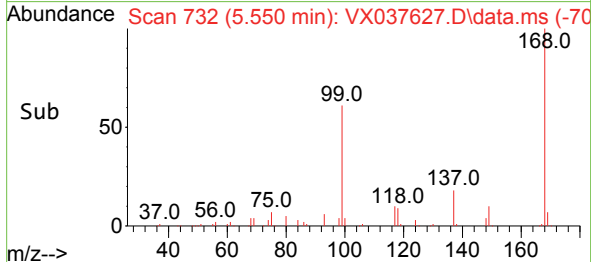
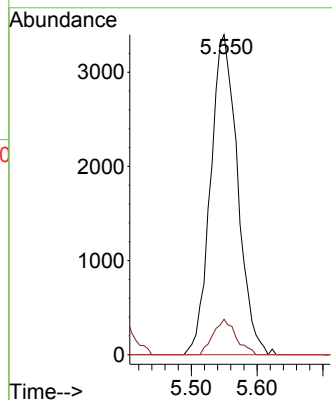
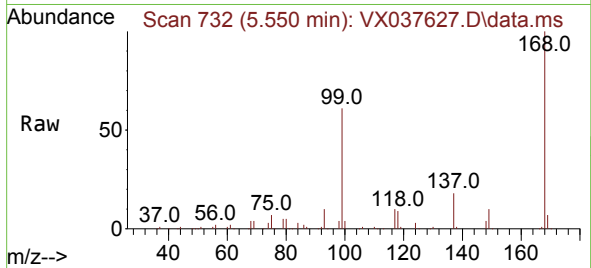




#36  
1,1-Dichloropropene  
Concen: 4.750 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX037627.D  
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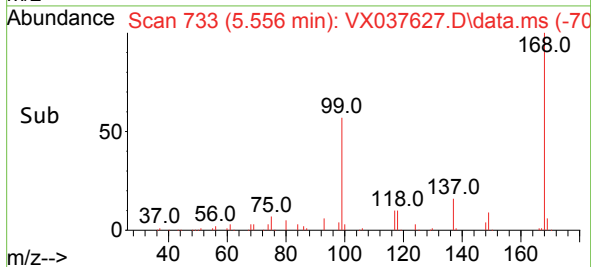
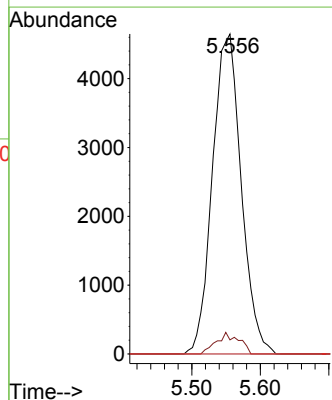
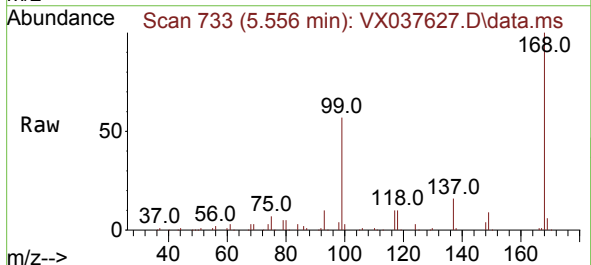
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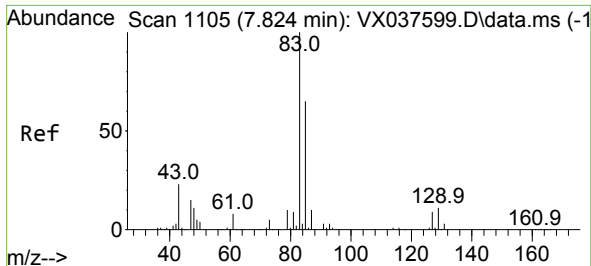
Tgt Ion: 75 Resp: 9723  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.404 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.122 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 117 Resp: 13548  
Ion Ratio Lower Upper  
117 100  
119 4.4 78.2 117.2#  
121 0.0 24.4 36.6#

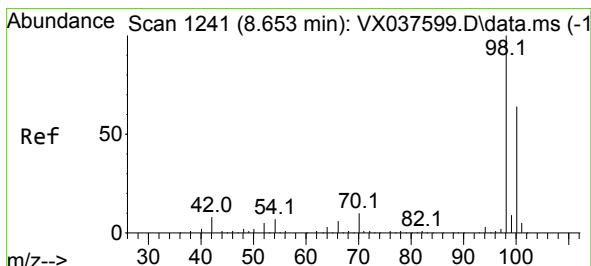
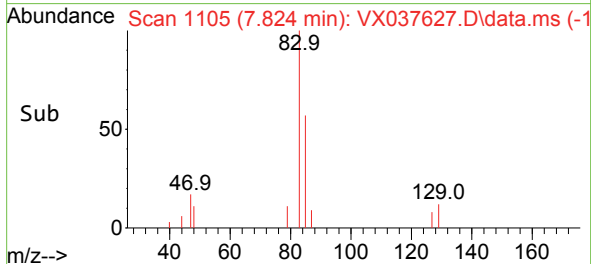
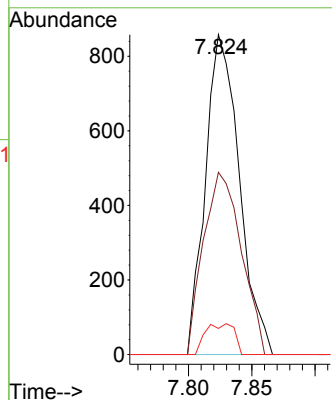
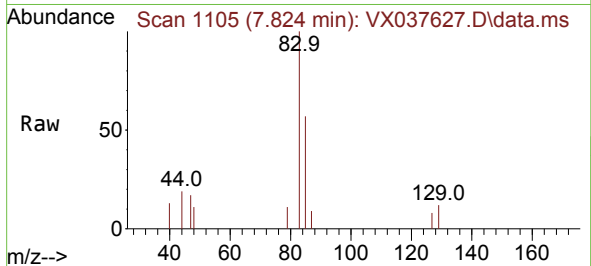




#47  
Bromodichloromethane  
Concen: 0.755 ug/l  
RT: 7.824 min Scan# 1105  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

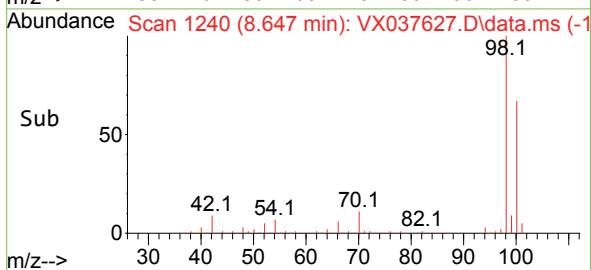
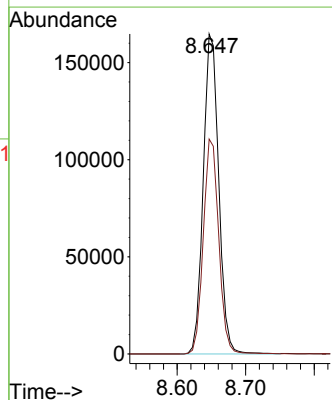
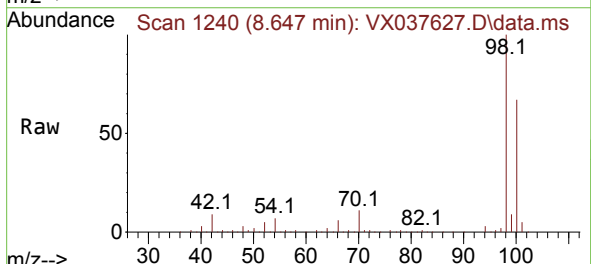
Instrument :  
MSVOA\_X  
ClientSampleId :  
TOWER-1

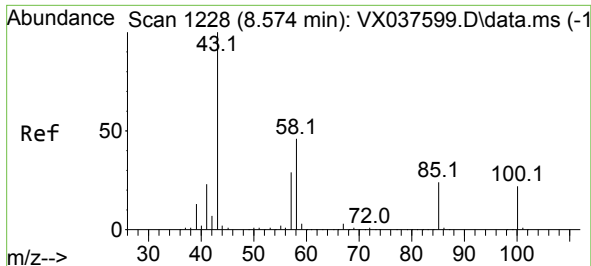
Tgt Ion: 83 Resp: 1598  
Ion Ratio Lower Upper  
83 100  
85 57.0 49.8 74.6  
127 8.2 7.1 10.7



#50  
Toluene-d8  
Concen: 45.540 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 98 Resp: 258811  
Ion Ratio Lower Upper  
98 100  
100 67.2 53.1 79.7

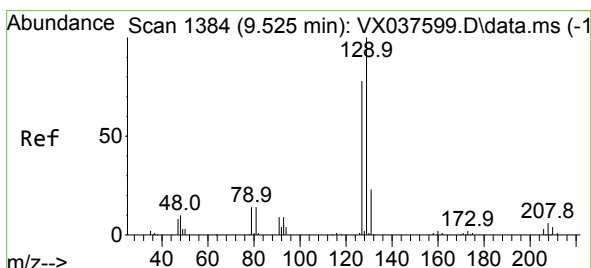
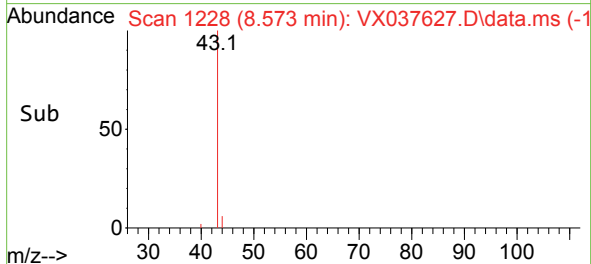
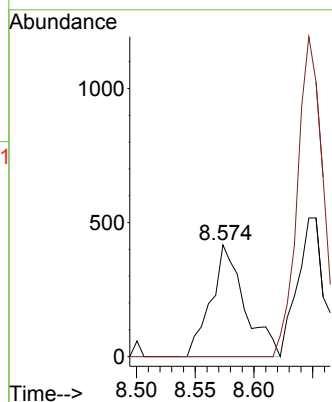
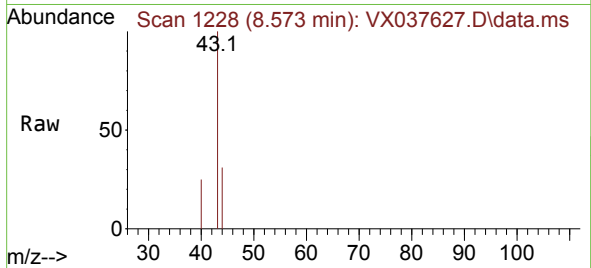




#51  
4-Methyl-2-Pentanone  
Concen: 0.414 ug/l  
RT: 8.573 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

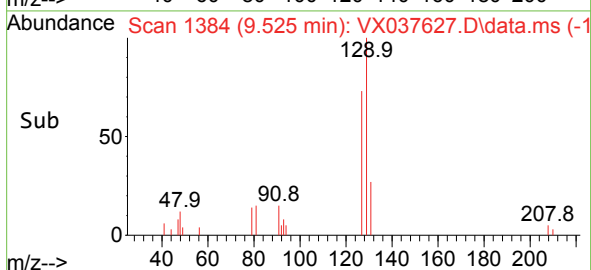
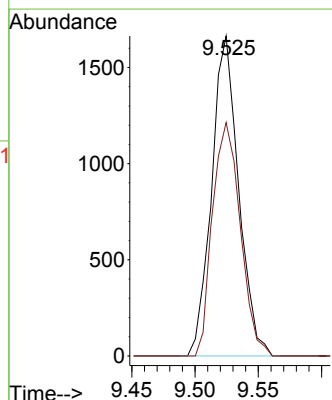
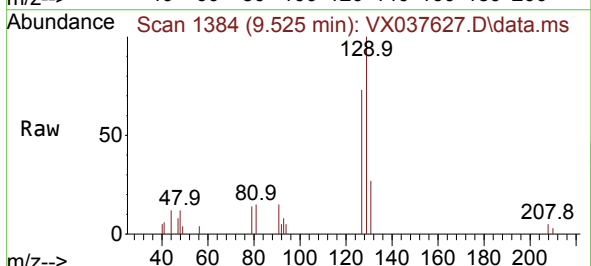
Instrument :  
MSVOA\_X  
ClientSampleId :  
TOWER-1

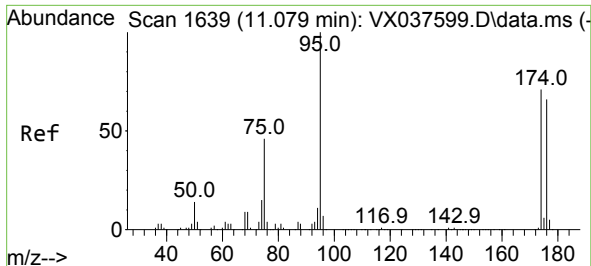
Tgt Ion: 43 Resp: 827  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#



#60  
Dibromochloromethane  
Concen: 1.457 ug/l  
RT: 9.525 min Scan# 1384  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 129 Resp: 2467  
Ion Ratio Lower Upper  
129 100  
127 75.2 38.8 116.4

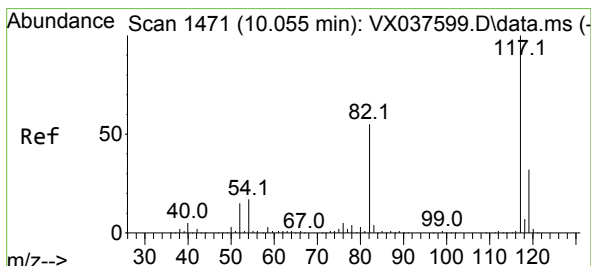
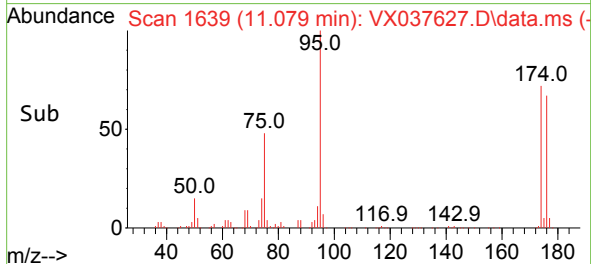
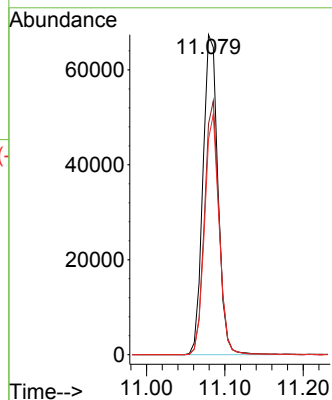
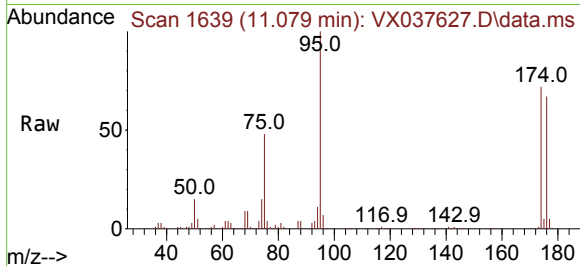




#62  
4-Bromofluorobenzene  
Concen: 41.878 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

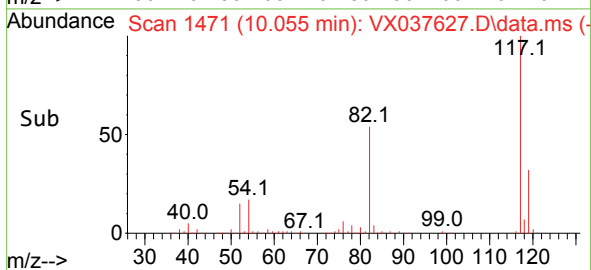
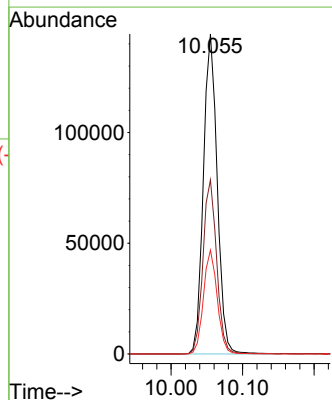
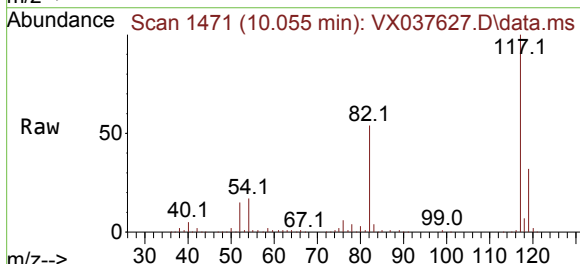
Instrument :  
MSVOA\_X  
ClientSampleId :  
TOWER-1

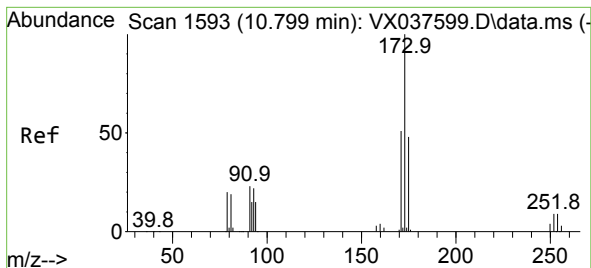
Tgt Ion: 95 Resp: 89697  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 135.6  
176 72.9 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 117 Resp: 194475  
Ion Ratio Lower Upper  
117 100  
82 54.4 46.2 69.4  
119 32.5 25.5 38.3





#71

Bromoform

Concen: 1.703 ug/l

RT: 10.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX037627.D

Acq: 09 Sep 2023 14:59

Instrument :

MSVOA\_X

ClientSampleId :

TOWER-1

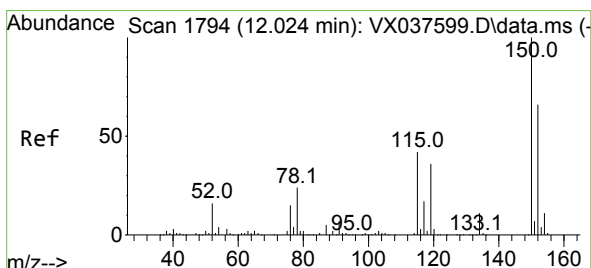
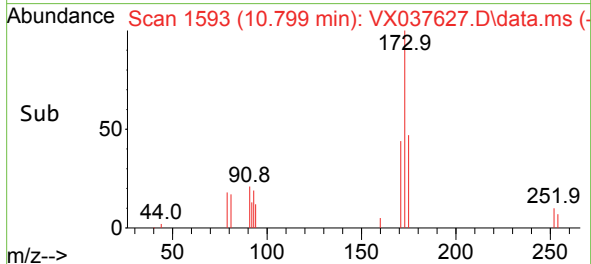
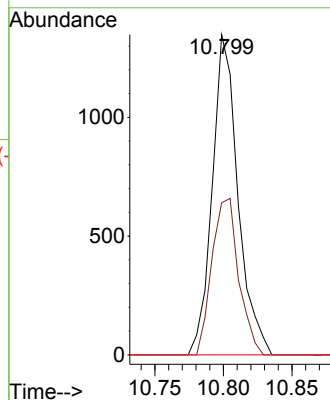
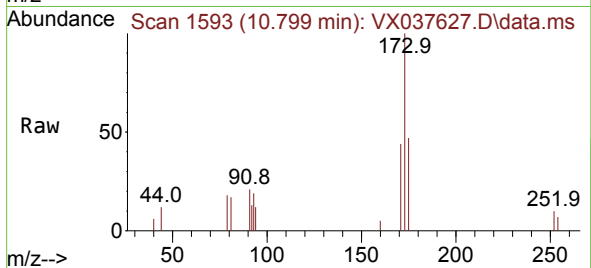
Tgt Ion:173 Resp: 1755

Ion Ratio Lower Upper

173 100

175 50.9 24.1 72.4

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX037627.D

Acq: 09 Sep 2023 14:59

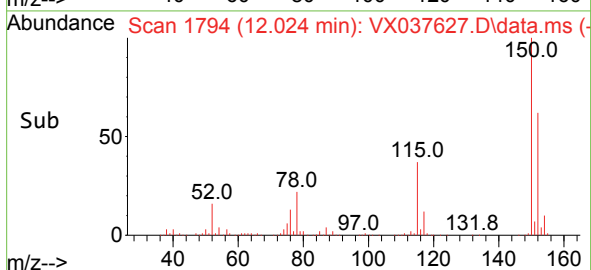
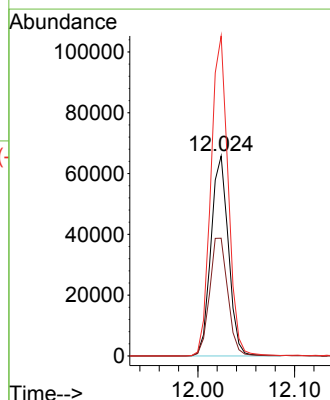
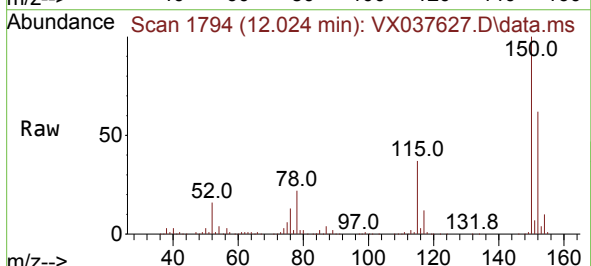
Tgt Ion:152 Resp: 82763

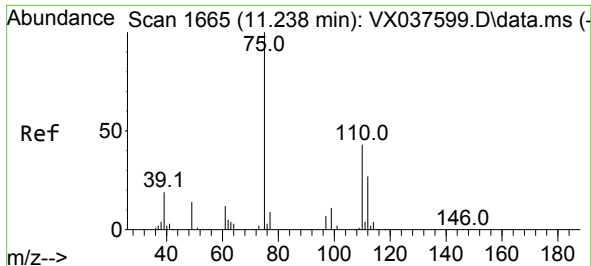
Ion Ratio Lower Upper

152 100

115 61.4 43.3 129.9

150 158.0 0.0 345.0

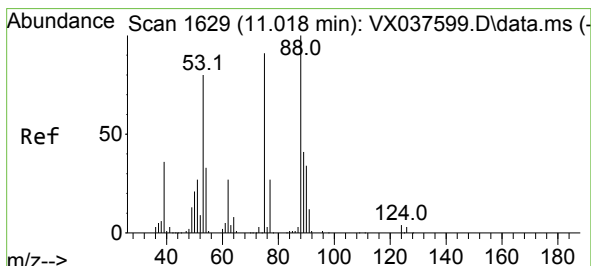
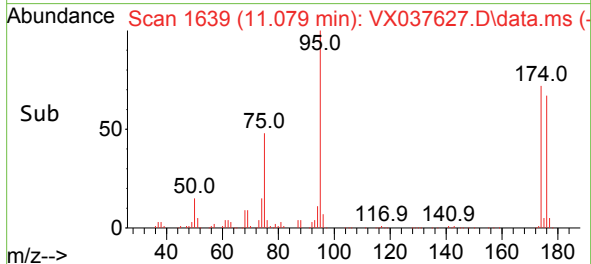
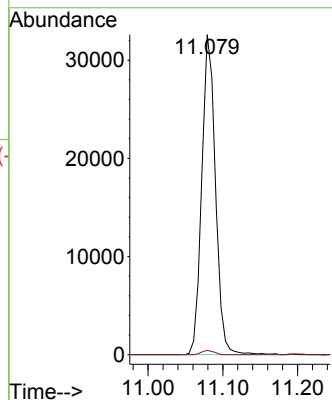
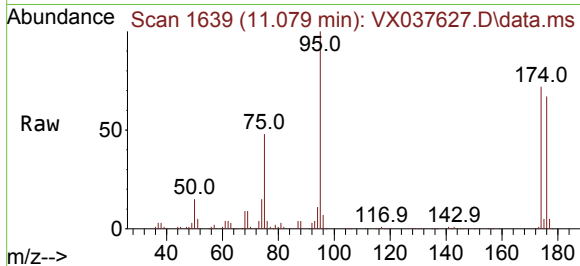




#76  
1,2,3-Trichloropropane  
Concen: 21.465 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
TOWER-1

Tgt Ion: 75 Resp: 41589  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.144 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037627.D  
Acq: 09 Sep 2023 14:59

Tgt Ion: 75 Resp: 41589  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.1 36.9 55.3#

