

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021924\  
 Data File : VX040336.D  
 Acq On : 19 Feb 2024 17:21  
 Operator : JC/MD  
 Sample : P1414-09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FB020724

Quant Time: Feb 20 01:19:11 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020924W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 12 00:21:14 2024  
 Response via : Initial Calibration

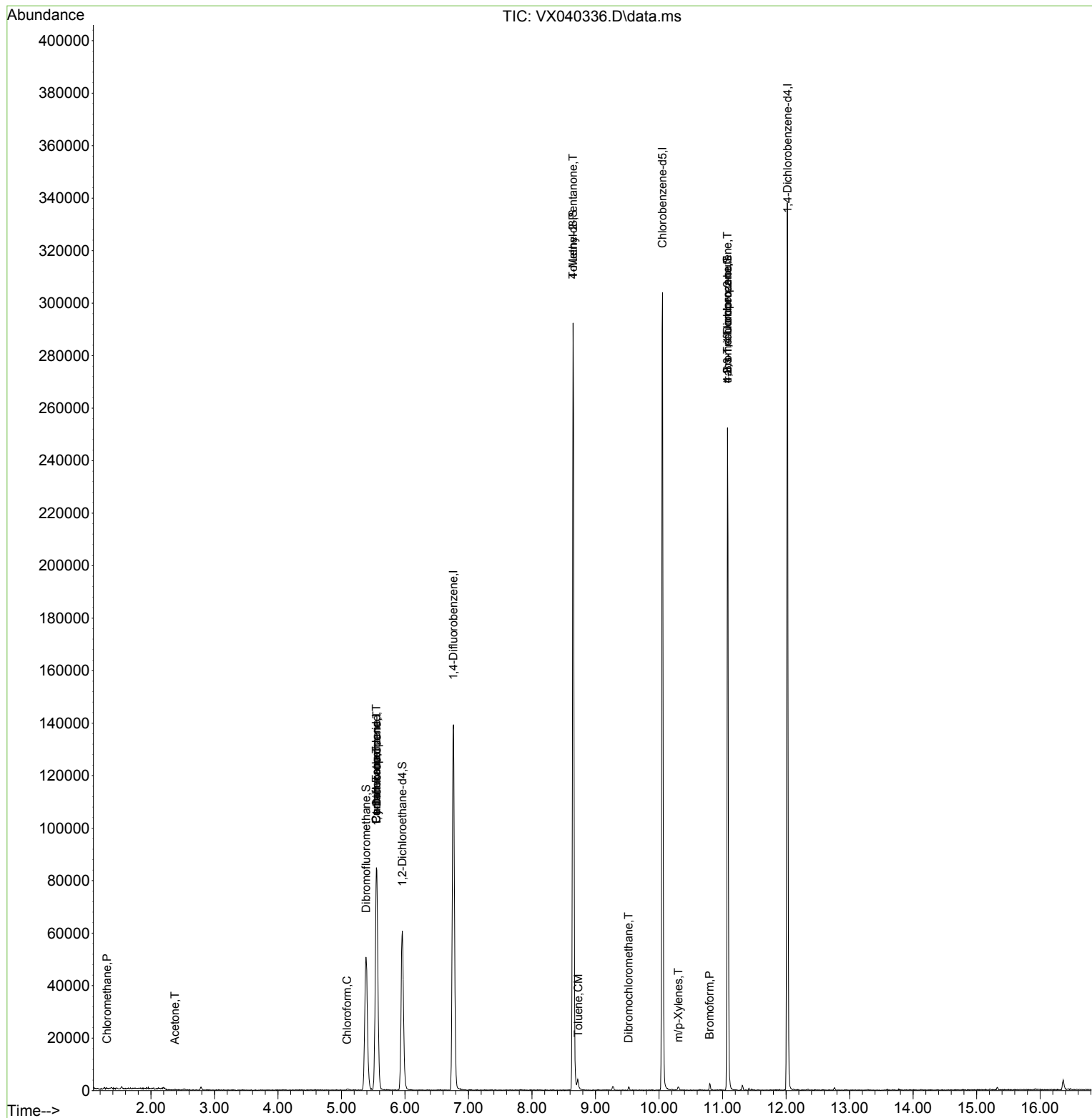
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| -----                         |           |       |          |           |        |          |
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.550     | 168   | 77691    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 139061   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 132261   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 67157    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 59011    | 51.056    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | =      | 102.120% |
| 35) Dibromofluoromethane      | 5.385     | 113   | 45571    | 46.926    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | =      | 93.860%  |
| 50) Toluene-d8                | 8.647     | 98    | 167216   | 46.031    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | =      | 92.060%  |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 65107    | 43.945    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | =      | 87.900%  |
| Target Compounds              |           |       |          |           |        |          |
|                               |           |       |          |           |        | Qvalue   |
| 3) Chloromethane              | 1.307     | 50    | 186      | 0.206     | ug/l # | 43       |
| 16) Acetone                   | 2.380     | 43    | 249      | 0.525     | ug/l   | 99       |
| 20) Methylene Chloride        | 2.788     | 84    | 572      | Below Cal | #      | 92       |
| 30) Chloroform                | 5.086     | 83    | 542      | 0.308     | ug/l   | 94       |
| 31) Cyclohexane               | 5.550     | 56    | 1919     | 1.392     | ug/l # | 14       |
| 36) 1,1-Dichloropropene       | 5.556     | 75    | 6972     | 5.125     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550     | 117   | 8375     | 6.475     | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 8.647     | 43    | 860      | 0.533     | ug/l # | 1        |
| 52) Toluene                   | 8.726     | 92    | 1282     | 0.514     | ug/l   | 86       |
| 60) Dibromochloromethane      | 9.518     | 129   | 667      | 0.616     | ug/l   | 98       |
| 68) m/p-Xylenes               | 10.305    | 106   | 406      | 0.219     | ug/l   | 91       |
| 71) Bromoform                 | 10.799    | 173   | 907      | 3.034     | ug/l # | 97       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 36319    | 26.706    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 36319    | 73.219    | ug/l # | 5        |
| -----                         |           |       |          |           |        |          |

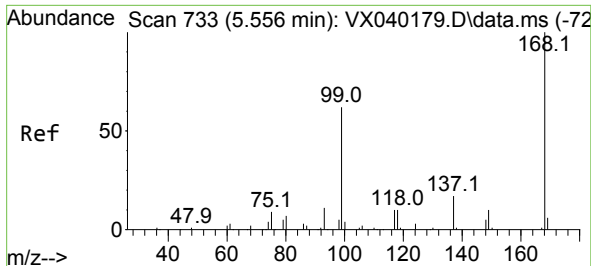
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 20 01:19:11 2024  
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Quant Title : SW846 8260  
QLast Update : Mon Feb 12 00:21:14 2024  
Response via : Initial Calibration

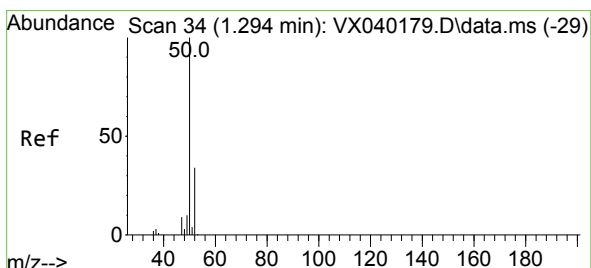
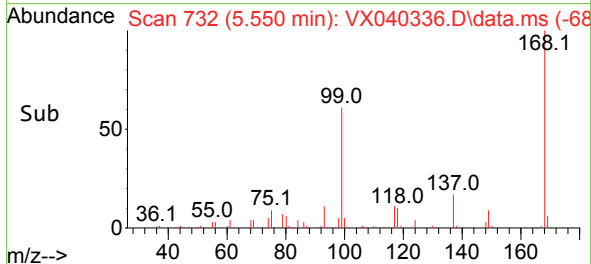
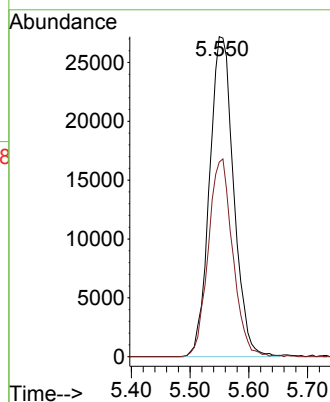
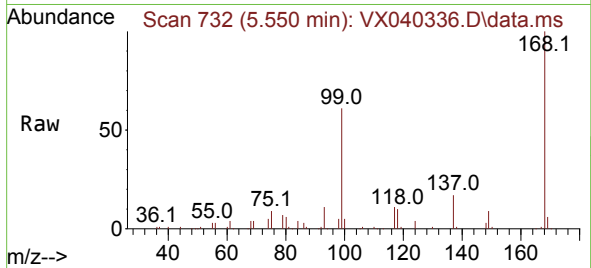




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

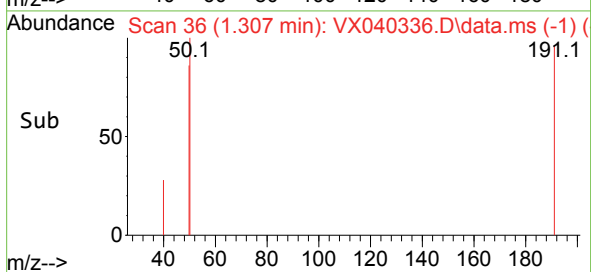
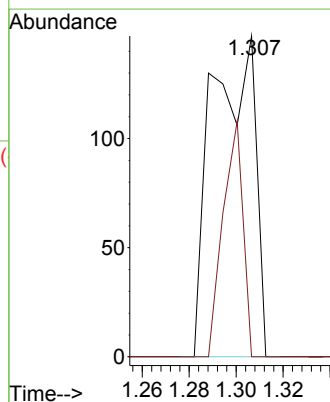
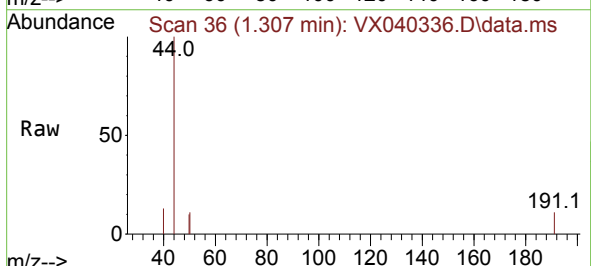
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB020724

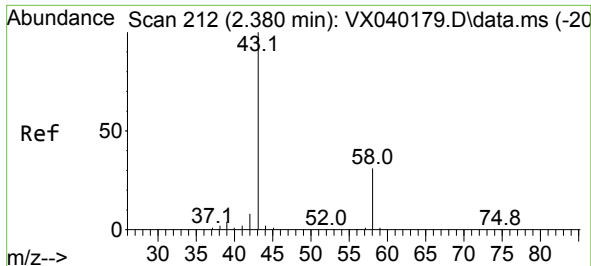
Tgt Ion:168 Resp: 77691  
Ion Ratio Lower Upper  
168 100  
99 60.8 56.6 85.0



#3  
Chloromethane  
Concen: 0.206 ug/l  
RT: 1.307 min Scan# 36  
Delta R.T. 0.012 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

Tgt Ion: 50 Resp: 186  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#

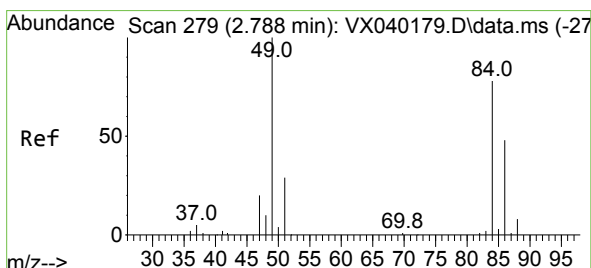
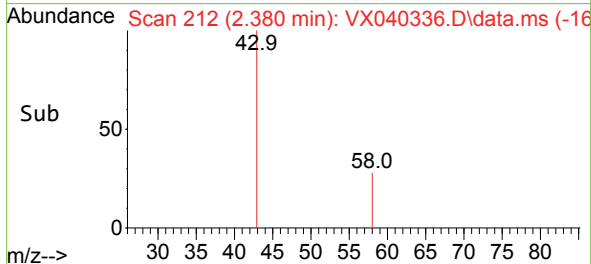
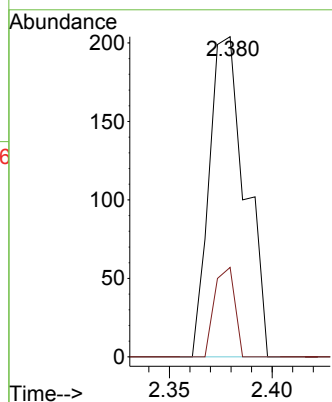
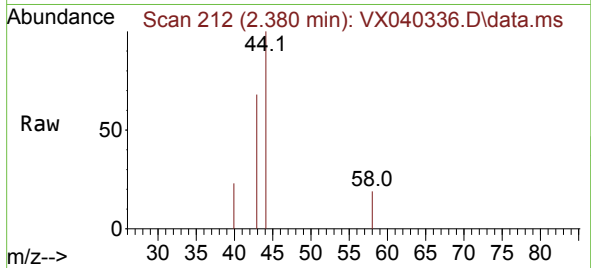




#16  
Acetone  
Concen: 0.525 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.000 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

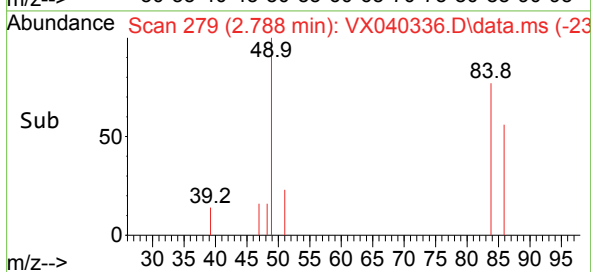
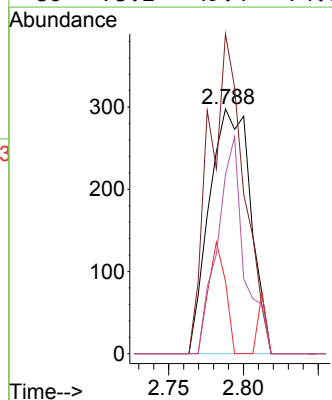
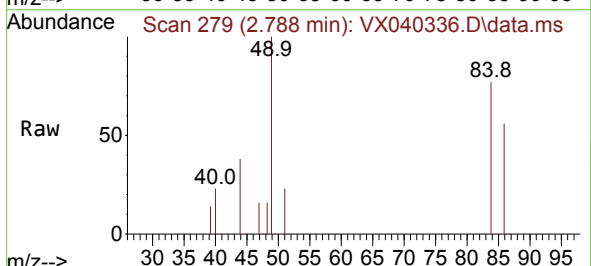
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB020724

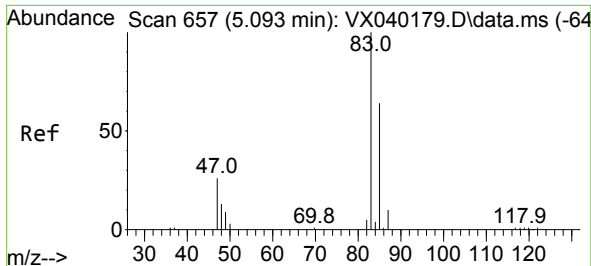
Tgt Ion: 43 Resp: 249  
Ion Ratio Lower Upper  
43 100  
58 27.9 21.9 32.9



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.788 min Scan# 279  
Delta R.T. -0.000 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

Tgt Ion: 84 Resp: 572  
Ion Ratio Lower Upper  
84 100  
49 130.5 103.6 155.4  
51 29.5 33.8 50.6#  
86 73.2 49.4 74.0





#30

Chloroform

Concen: 0.308 ug/l

RT: 5.086 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX040336.D

Acq: 19 Feb 2024 17:21

Instrument :

MSVOA\_X

ClientSampleId :

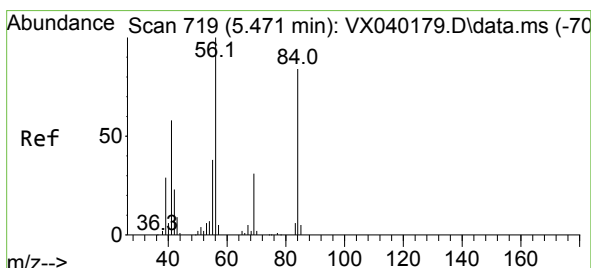
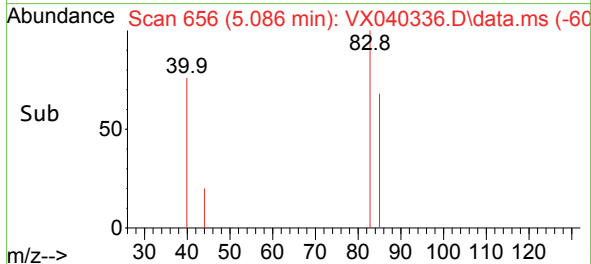
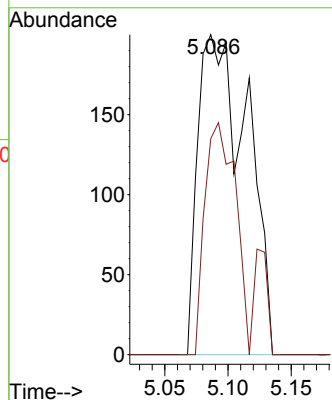
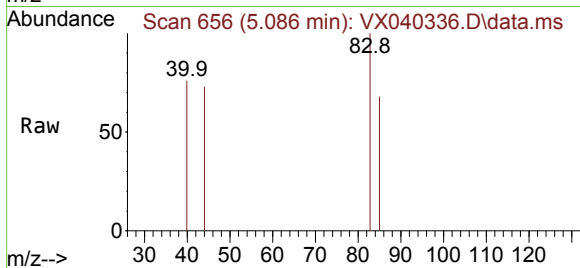
FB020724

Tgt Ion: 83 Resp: 542

Ion Ratio Lower Upper

83 100

85 67.5 50.3 75.5



#31

Cyclohexane

Concen: 1.392 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX040336.D

Acq: 19 Feb 2024 17:21

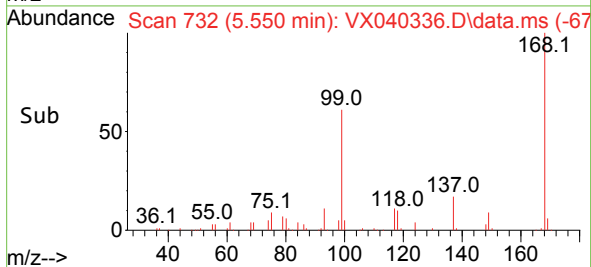
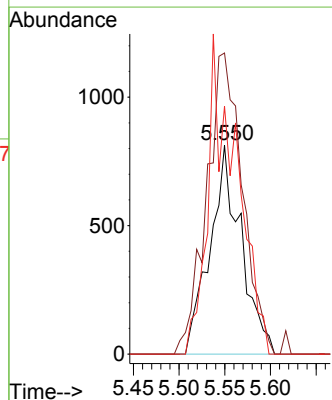
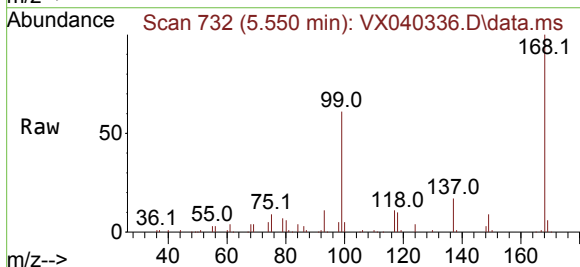
Tgt Ion: 56 Resp: 1919

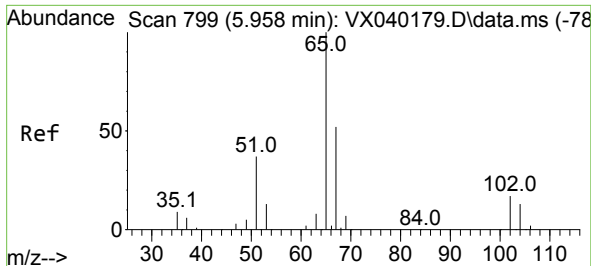
Ion Ratio Lower Upper

56 100

69 144.2 23.4 35.2#

84 118.7 65.9 98.9#

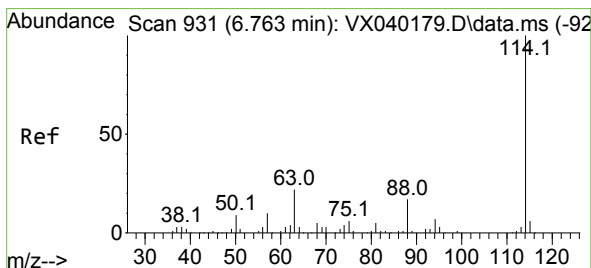
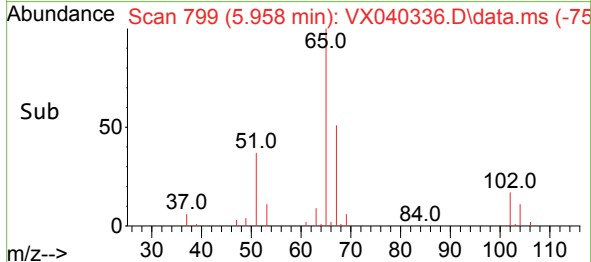
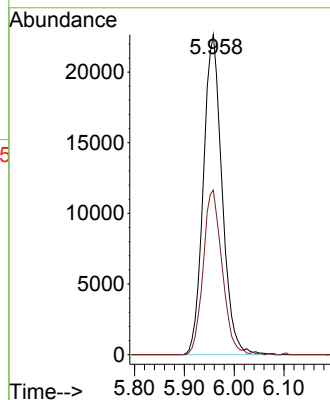
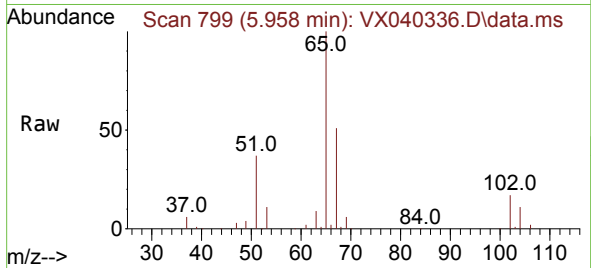




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.056 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. -0.000 min  
 Lab File: VX040336.D  
 Acq: 19 Feb 2024 17:21

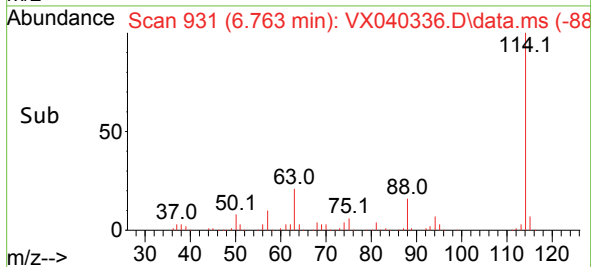
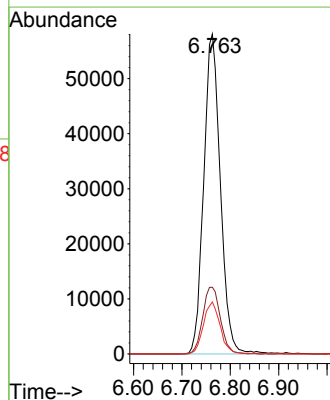
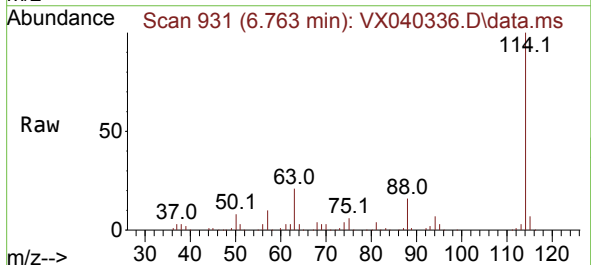
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FB020724

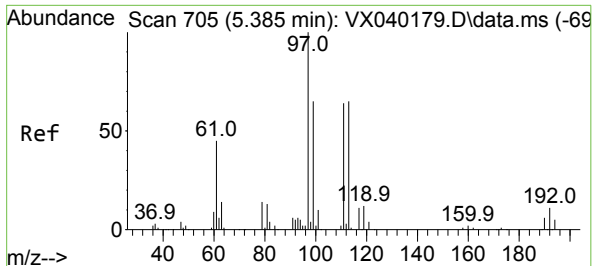
Tgt Ion: 65 Resp: 59011  
 Ion Ratio Lower Upper  
 65 100  
 67 51.8 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX040336.D  
 Acq: 19 Feb 2024 17:21

Tgt Ion: 114 Resp: 139061  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 0.0 45.0  
 88 16.2 0.0 36.6





#35

Dibromofluoromethane

Concen: 46.926 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX040336.D

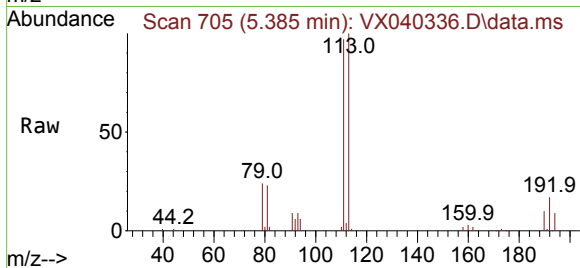
Acq: 19 Feb 2024 17:21

Instrument :

MSVOA\_X

ClientSampleId :

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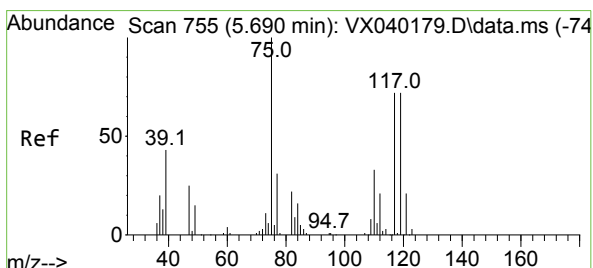
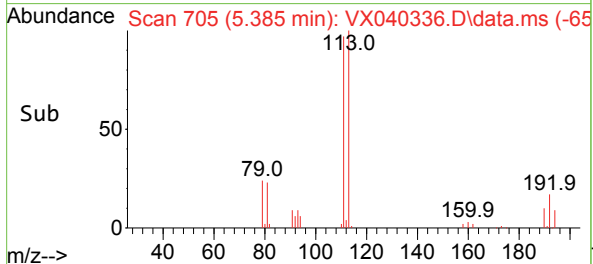
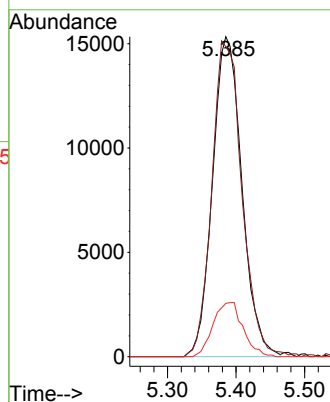
Tgt Ion:113 Resp: 45571

Ion Ratio Lower Upper

113 100

111 101.0 82.9 124.3

192 17.3 13.3 19.9



#36

1,1-Dichloropropene

Concen: 5.125 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX040336.D

Acq: 19 Feb 2024 17:21

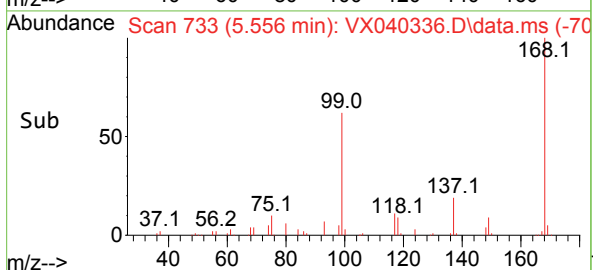
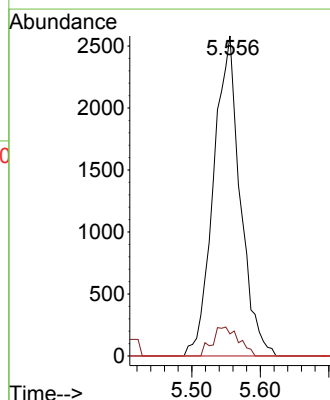
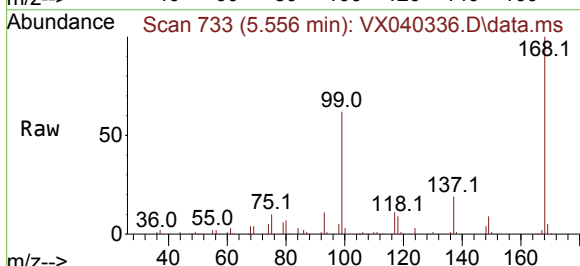
Tgt Ion: 75 Resp: 6972

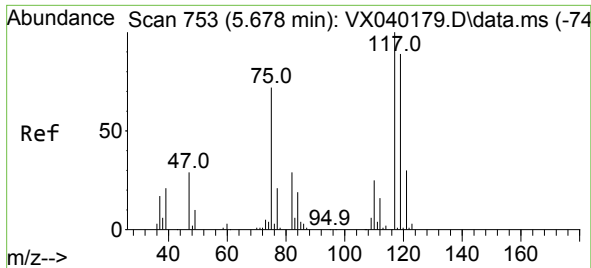
Ion Ratio Lower Upper

75 100

110 8.9 17.0 50.9#

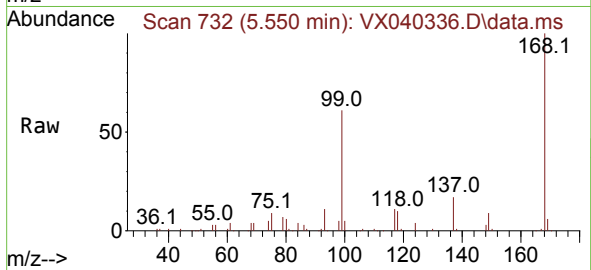
77 0.0 24.7 37.1#



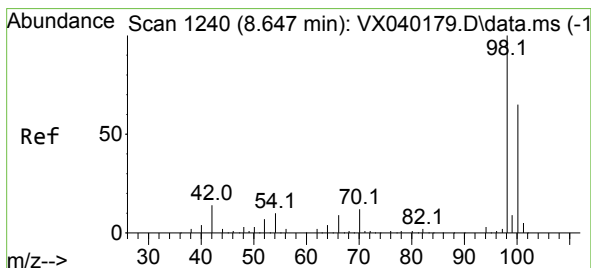
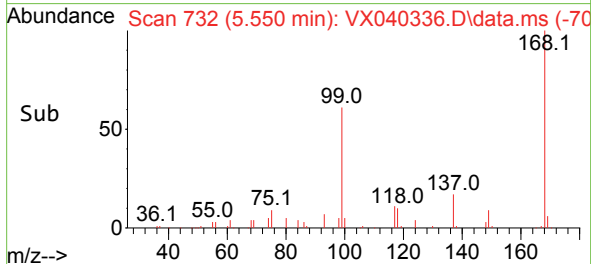
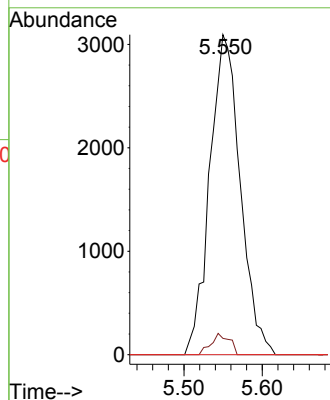


#38  
Carbon Tetrachloride  
Concen: 6.475 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

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MSVOA\_X  
ClientSampleId :  
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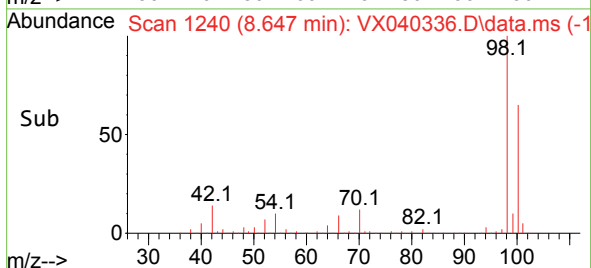
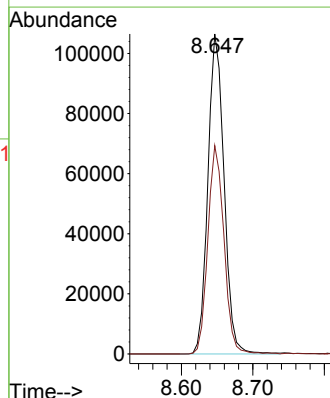
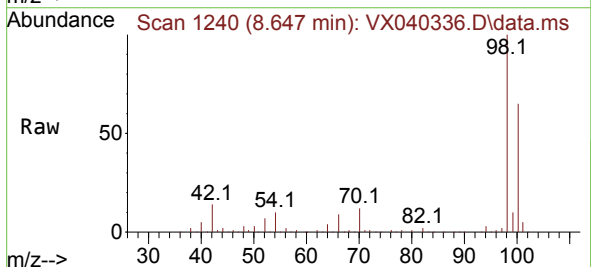


Tgt Ion:117 Resp: 8375  
Ion Ratio Lower Upper  
117 100  
119 5.1 78.2 117.2#  
121 0.0 24.4 36.6#

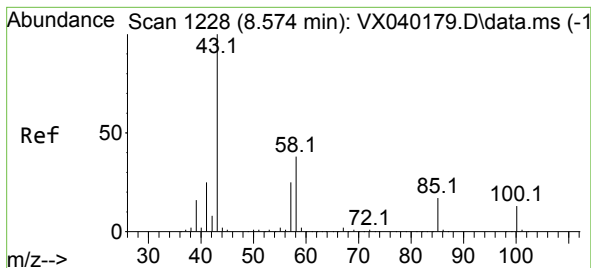


#50  
Toluene-d8  
Concen: 46.031 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

Tgt Ion: 98 Resp: 167216  
Ion Ratio Lower Upper  
98 100  
100 65.0 53.1 79.7







#51

4-Methyl-2-Pentanone

Concen: 0.533 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.073 min

Lab File: VX040336.D

Acq: 19 Feb 2024 17:21

Instrument :

MSVOA\_X

ClientSampleId :

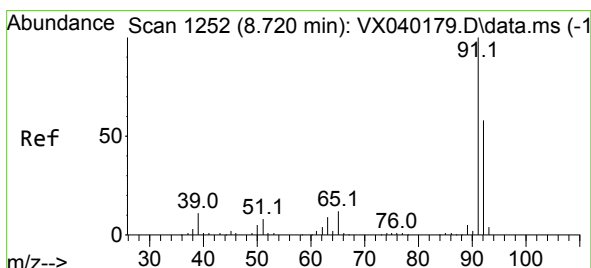
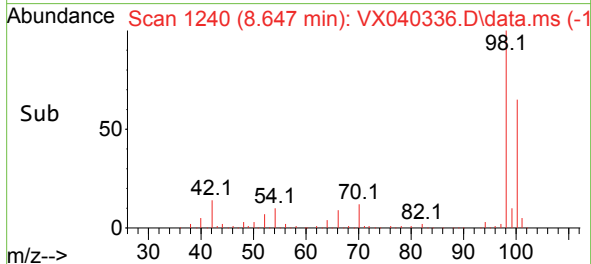
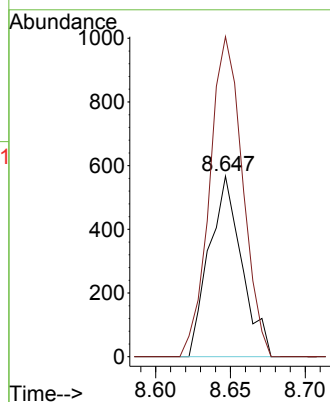
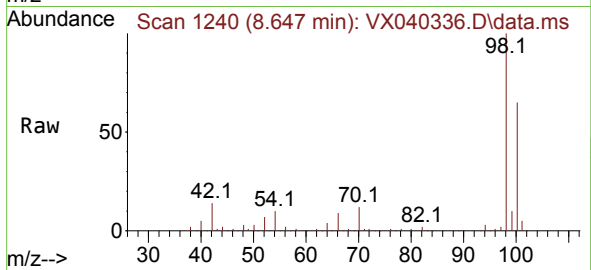
FB020724

Tgt Ion: 43 Resp: 860

Ion Ratio Lower Upper

43 100

58 179.4 30.4 45.6#



#52

Toluene

Concen: 0.514 ug/l

RT: 8.726 min Scan# 1253

Delta R.T. 0.006 min

Lab File: VX040336.D

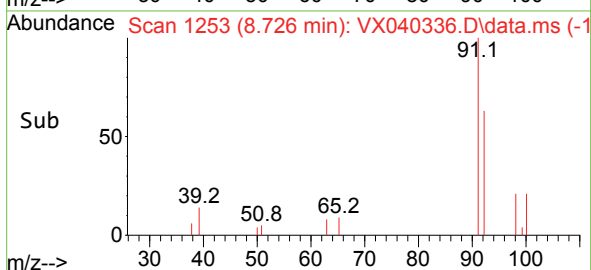
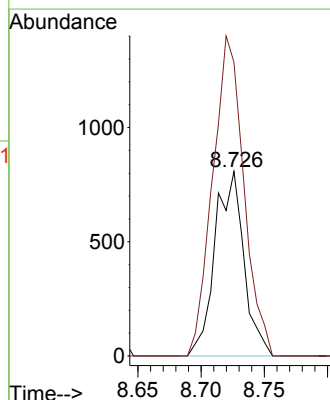
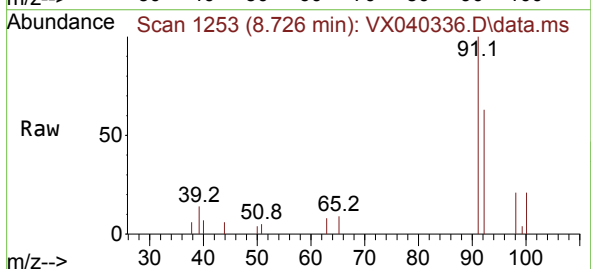
Acq: 19 Feb 2024 17:21

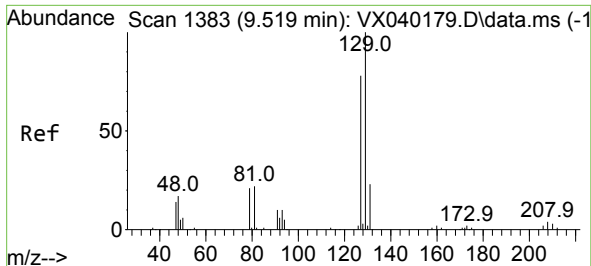
Tgt Ion: 92 Resp: 1282

Ion Ratio Lower Upper

92 100

91 187.2 134.2 201.2

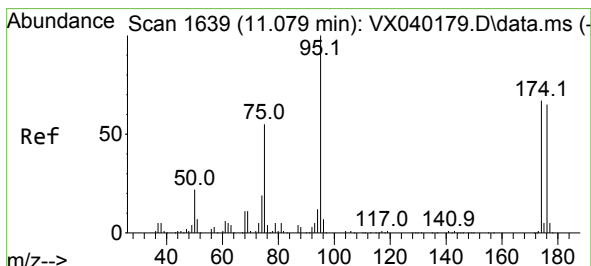
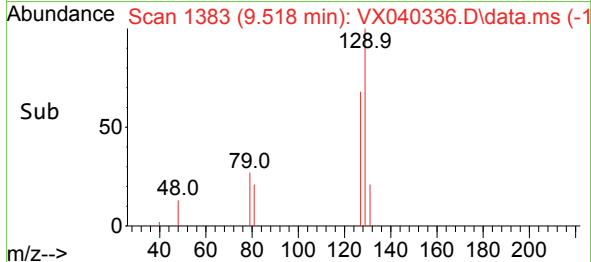
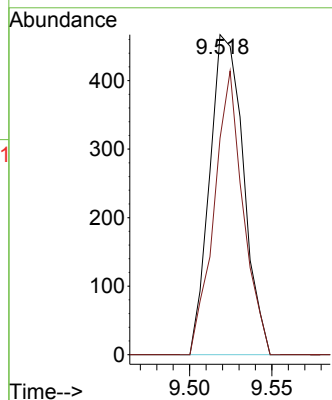
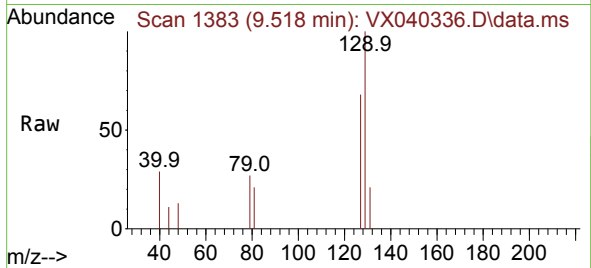




#60  
Dibromochloromethane  
Concen: 0.616 ug/l  
RT: 9.518 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

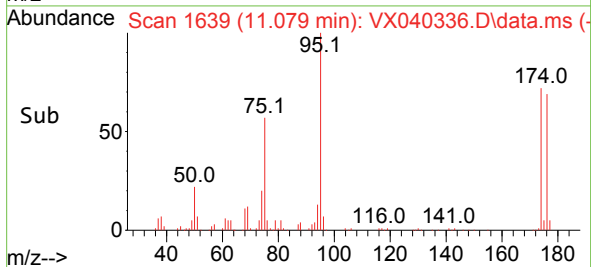
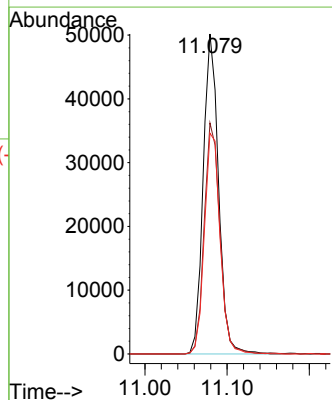
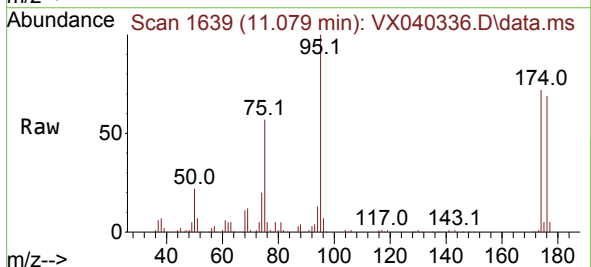
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB020724

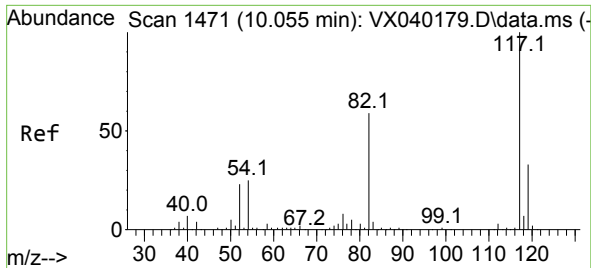
Tgt Ion:129 Resp: 667  
Ion Ratio Lower Upper  
129 100  
127 76.2 38.8 116.4



#62  
4-Bromofluorobenzene  
Concen: 43.945 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

Tgt Ion: 95 Resp: 65107  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 135.6  
176 70.8 0.0 131.0

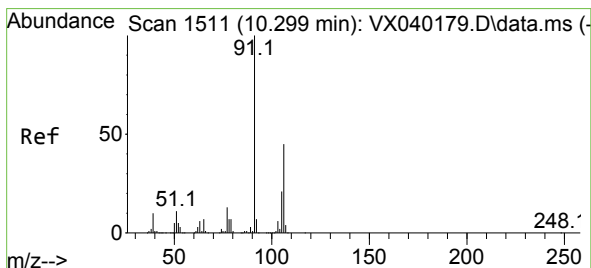
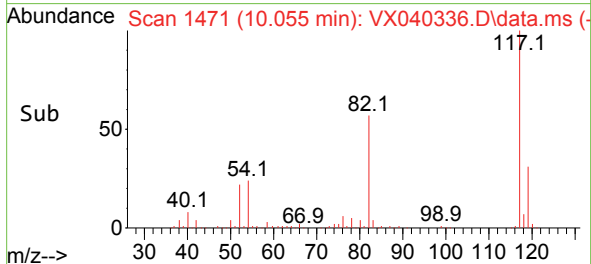
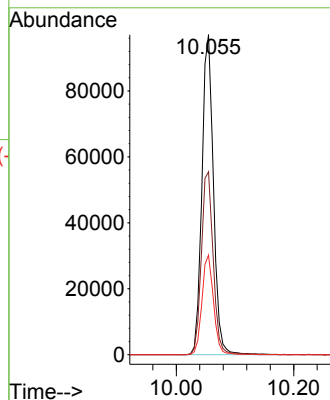
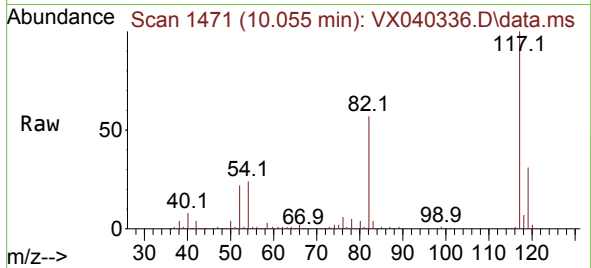




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

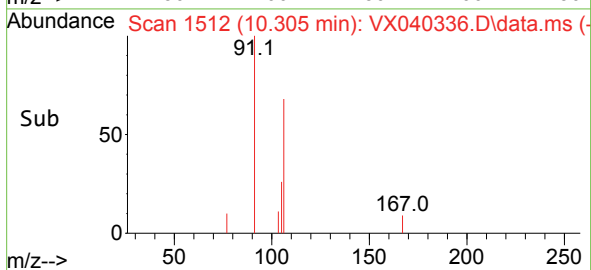
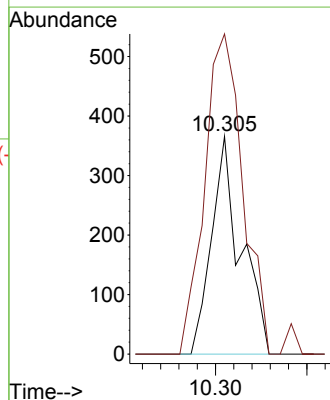
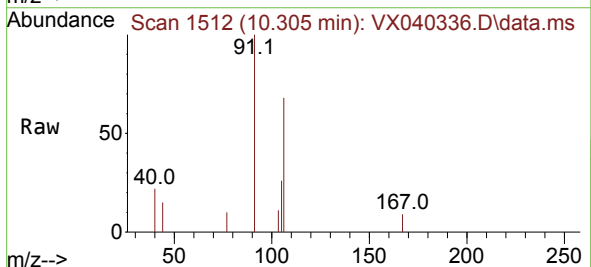
Instrument :  
MSVOA\_X  
ClientSampleId :  
FB020724

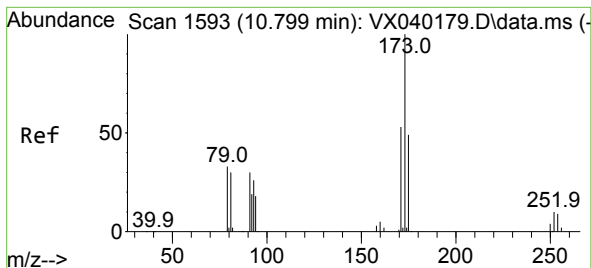
Tgt Ion:117 Resp: 132261  
Ion Ratio Lower Upper  
117 100  
82 57.1 46.2 69.4  
119 31.1 25.5 38.3



#68  
m/p-Xylenes  
Concen: 0.219 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. 0.006 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

Tgt Ion:106 Resp: 406  
Ion Ratio Lower Upper  
106 100  
91 192.9 165.5 248.3





#71

Bromoform

Concen: 3.034 ug/l

RT: 10.799 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX040336.D

Acq: 19 Feb 2024 17:21

Instrument :

MSVOA\_X

ClientSampleId :

FB020724

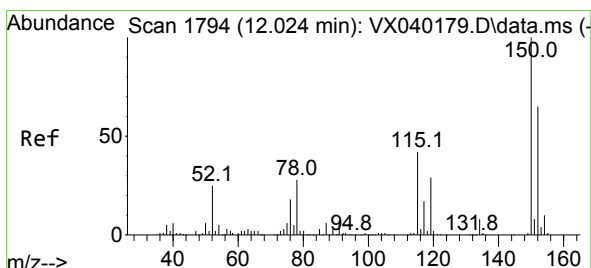
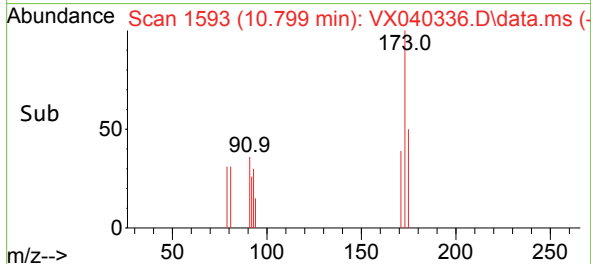
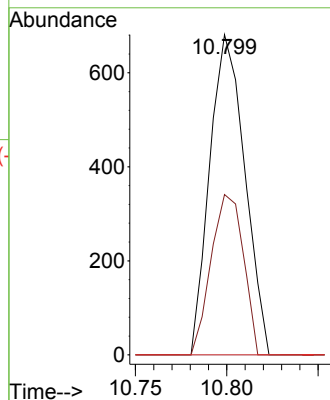
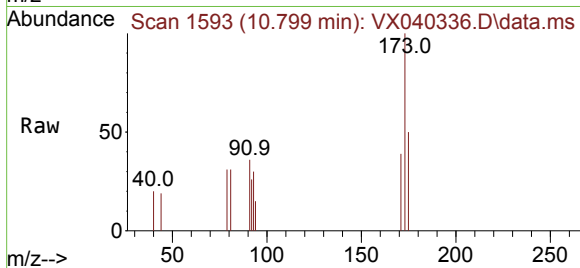
Tgt Ion:173 Resp: 907

Ion Ratio Lower Upper

173 100

175 46.2 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: VX040336.D

Acq: 19 Feb 2024 17:21

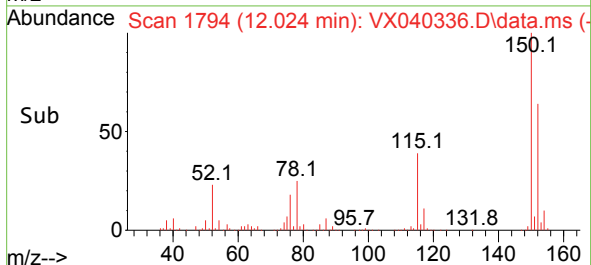
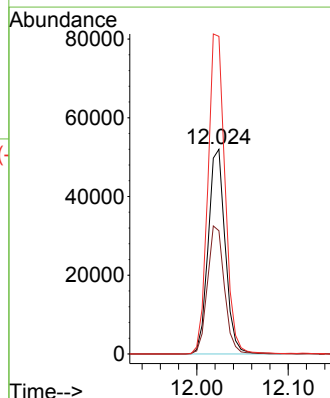
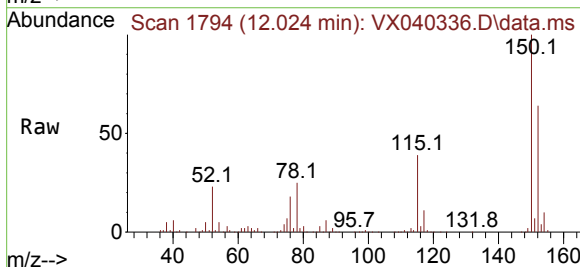
Tgt Ion:152 Resp: 67157

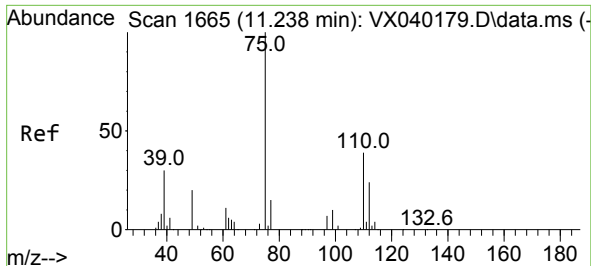
Ion Ratio Lower Upper

152 100

115 62.2 43.3 129.9

150 157.4 0.0 345.0

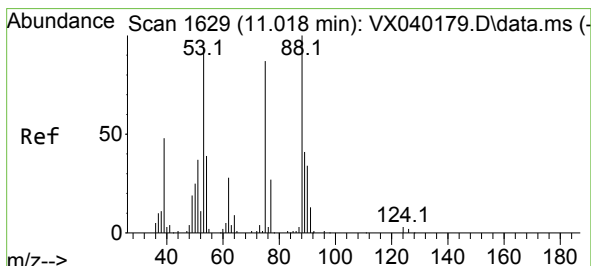
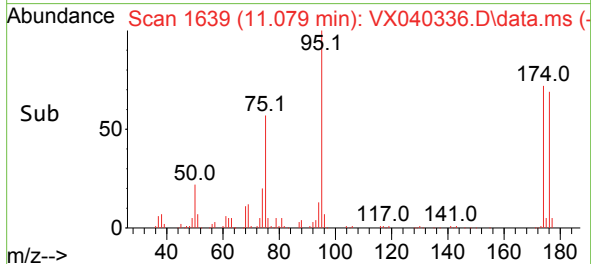
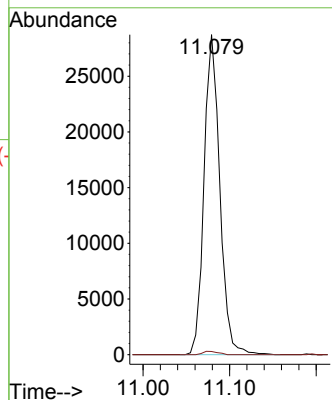
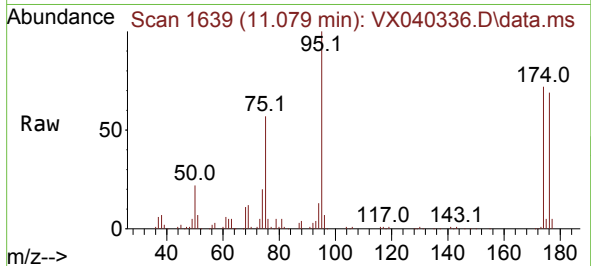




#76  
1,2,3-Trichloropropane  
Concen: 26.706 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

Instrument :  
MSVOA\_X  
ClientSampleId :  
FB020724

Tgt Ion: 75 Resp: 36319  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 73.219 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX040336.D  
Acq: 19 Feb 2024 17:21

Tgt Ion: 75 Resp: 36319  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

