

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062524\  
 Data File : VX042025.D  
 Acq On : 25 Jun 2024 12:26  
 Operator : JC/MD  
 Sample : P3052-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 26 05:35:40 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 21 23:51:58 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.549  | 168  | 149742   | 50.000 | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene    | 6.763  | 114  | 232415   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.055 | 117  | 231167   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 116922   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 33) 1,2-Dichloroethane-d4   | 5.952  | 65    | 76795    | 44.475   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 88.940% |
| 35) Dibromofluoromethane    | 5.385  | 113   | 72609    | 44.029   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 88.060% |
| 50) Toluene-d8              | 8.646  | 98    | 270260   | 46.650   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 93.300% |
| 62) 4-Bromofluorobenzene    | 11.079 | 95    | 103497   | 48.463   | ug/l | 0.00    |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 96.920% |

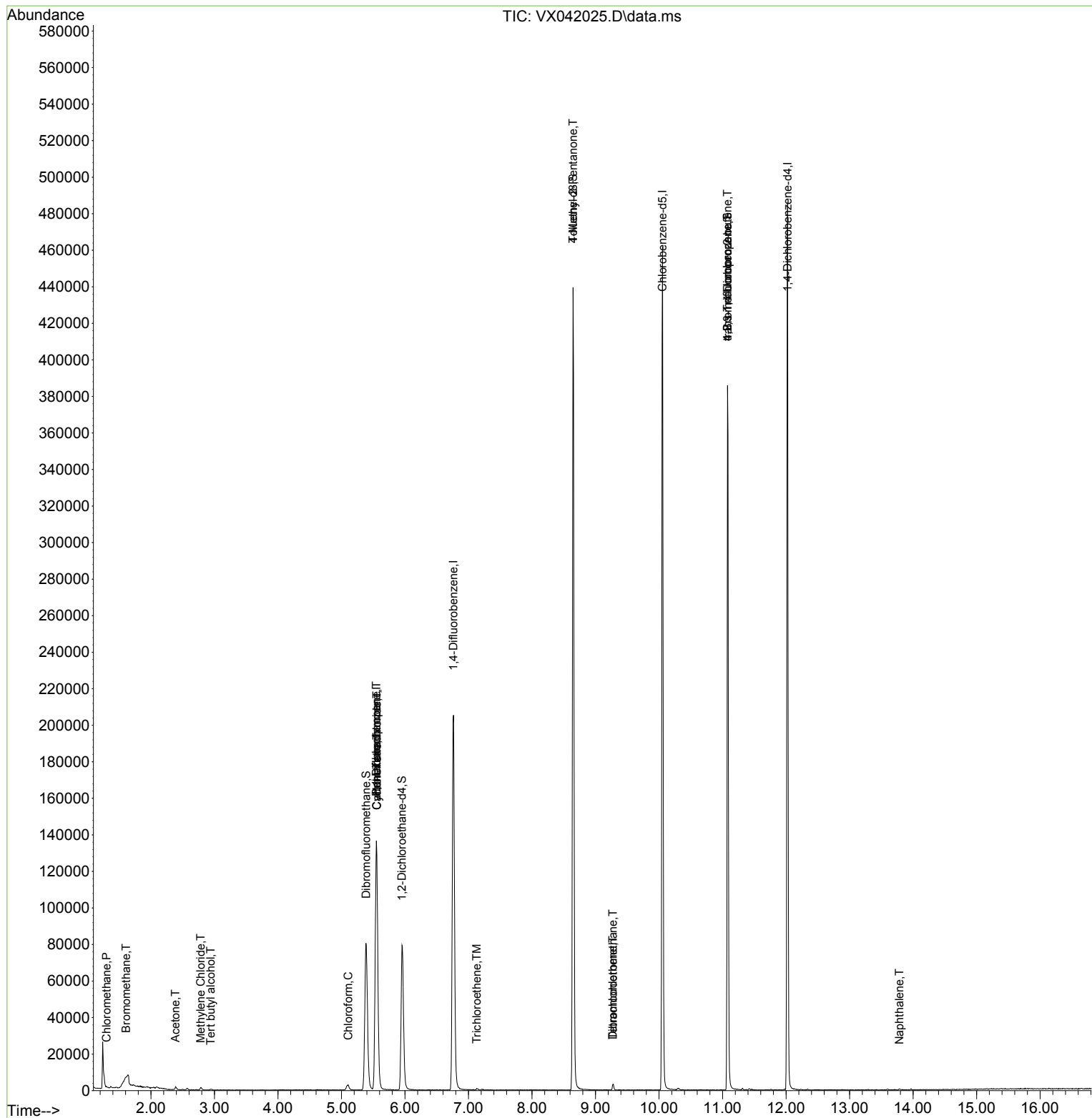
| Target Compounds              |        |     |       |           |      | Qvalue |
|-------------------------------|--------|-----|-------|-----------|------|--------|
| 3) Chloromethane              | 1.300  | 50  | 397   | 0.277     | ug/l | 98     |
| 5) Bromomethane               | 1.605  | 94  | 387   | 0.546     | ug/l | # 55   |
| 6) Chloroethane               | 1.642  | 64  | 168   | Below Cal |      | # 35   |
| 11) Tert butyl alcohol        | 2.940  | 59  | 322   | 0.983     | ug/l | # 78   |
| 16) Acetone                   | 2.385  | 43  | 1855  | 2.447     | ug/l | # 84   |
| 20) Methylene Chloride        | 2.782  | 84  | 745   | 0.449     | ug/l | # 76   |
| 30) Chloroform                | 5.104  | 83  | 3814  | 1.510     | ug/l | 96     |
| 31) Cyclohexane               | 5.555  | 56  | 2091  | 1.035     | ug/l | # 1    |
| 36) 1,1-Dichloropropene       | 5.549  | 75  | 8822  | 5.038     | ug/l | # 51   |
| 38) Carbon Tetrachloride      | 5.555  | 117 | 12760 | 6.595     | ug/l | # 14   |
| 44) Trichloroethene           | 7.128  | 130 | 385   | 0.243     | ug/l | 67     |
| 51) 4-Methyl-2-Pentanone      | 8.646  | 43  | 983   | 0.408     | ug/l | # 1    |
| 60) Dibromochloromethane      | 9.274  | 129 | 632   | 0.371     | ug/l | # 11   |
| 64) Tetrachloroethene         | 9.274  | 164 | 755   | 0.449     | ug/l | # 77   |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75  | 47809 | 22.524    | ug/l | # 39   |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75  | 47809 | 63.965    | ug/l | # 5    |
| 95) Naphthalene               | 13.786 | 128 | 870   | 0.850     | ug/l | # 79   |

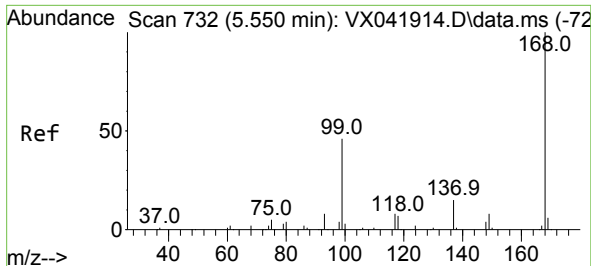
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062524\  
Data File : VX042025.D  
Acq On : 25 Jun 2024 12:26  
Operator : JC/MD  
Sample : P3052-02  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

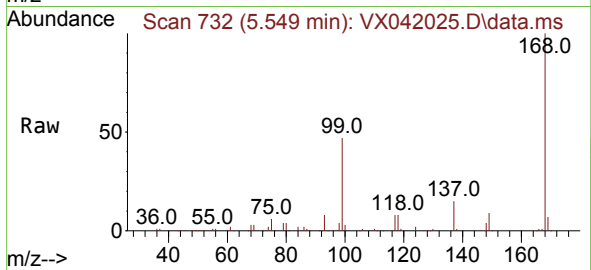
Quant Time: Jun 26 05:35:40 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X061824W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 21 23:51:58 2024  
Response via : Initial Calibration



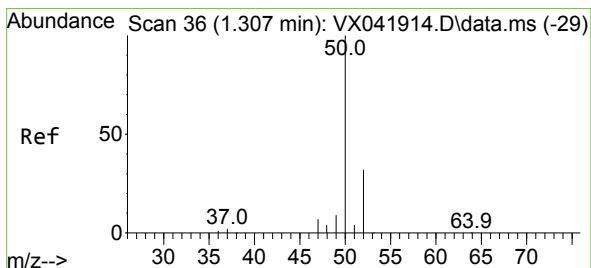
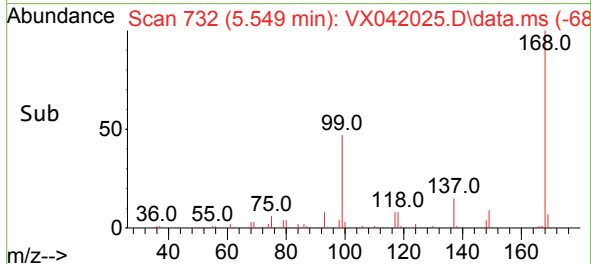
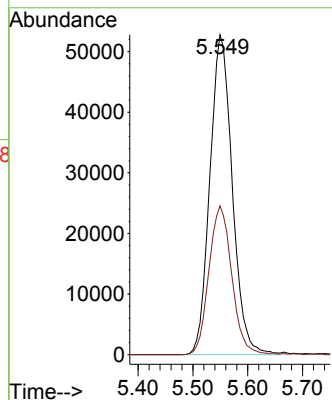


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Instrument :  
MSVOA\_X  
ClientSampleId :

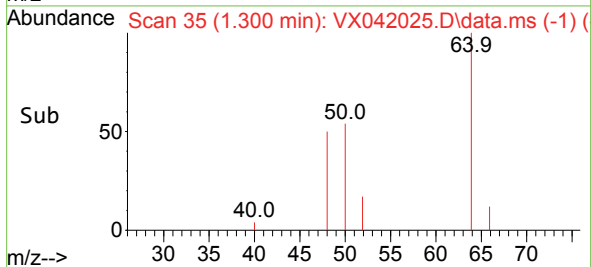
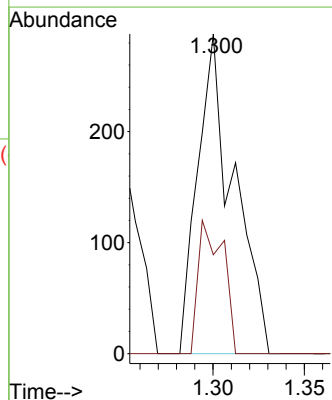
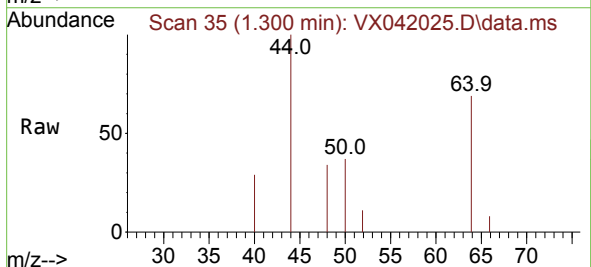


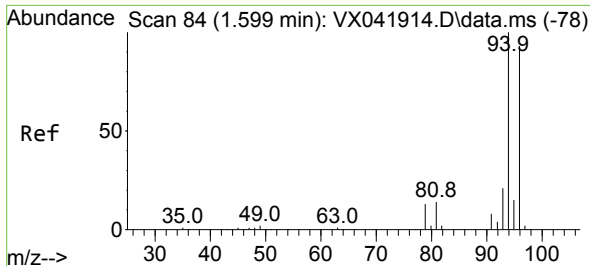
Tgt Ion:168 Resp: 149742  
Ion Ratio Lower Upper  
168 100  
99 46.5 56.6 85.0#



#3  
Chloromethane  
Concen: 0.277 ug/l  
RT: 1.300 min Scan# 35  
Delta R.T. -0.006 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Tgt Ion: 50 Resp: 397  
Ion Ratio Lower Upper  
50 100  
52 30.9 25.5 38.3

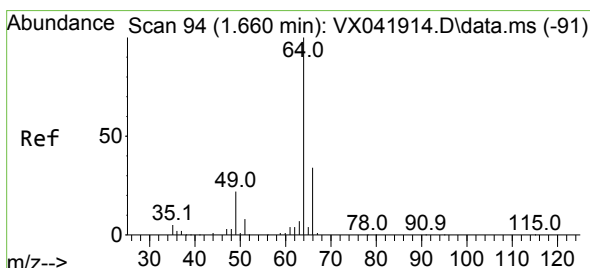
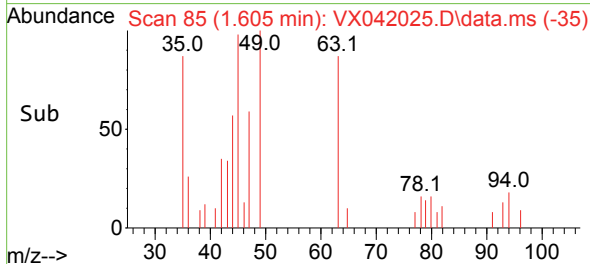
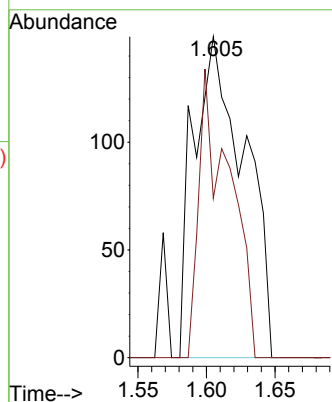
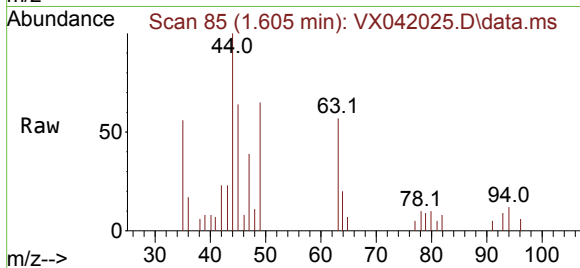




#5  
Bromomethane  
Concen: 0.546 ug/l  
RT: 1.605 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

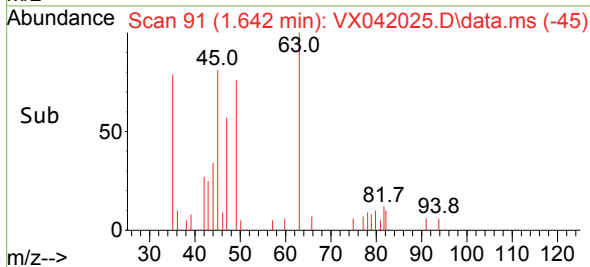
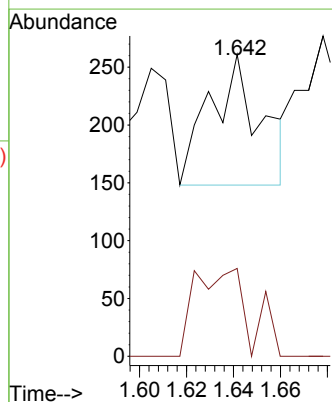
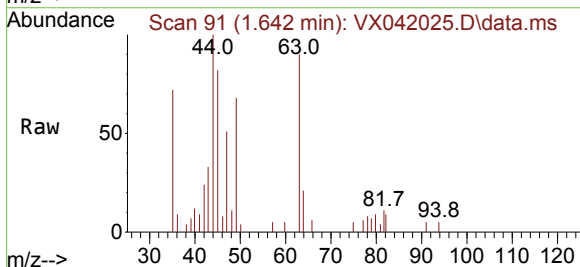
Instrument :  
MSVOA\_X  
ClientSampleId :

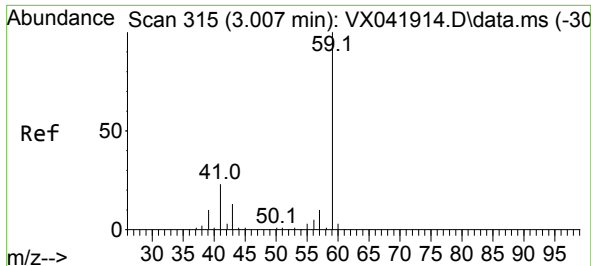
Tgt Ion: 94 Resp: 387  
Ion Ratio Lower Upper  
94 100  
96 49.7 74.6 111.8#



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.642 min Scan# 91  
Delta R.T. -0.018 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Tgt Ion: 64 Resp: 168  
Ion Ratio Lower Upper  
64 100  
66 67.3 25.1 37.7#





#11

Tert butyl alcohol

Concen: 0.983 ug/l

RT: 2.940 min Scan# 30

Delta R.T. -0.067 min

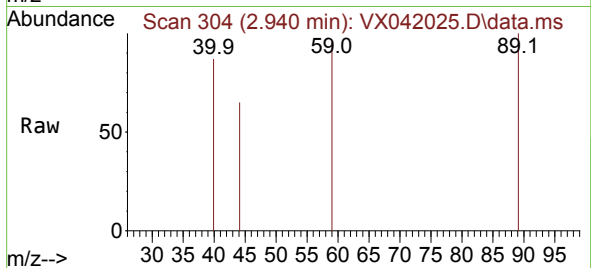
Lab File: VX042025.D

Acq: 25 Jun 2024 12:26

Instrument :

MSVOA\_X

ClientSampleId :

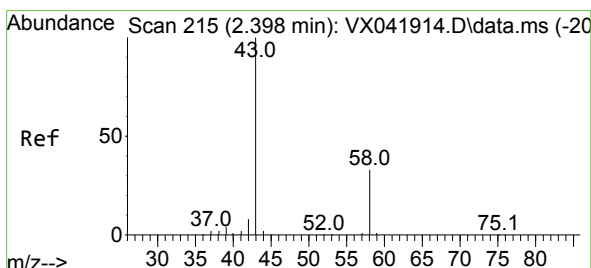
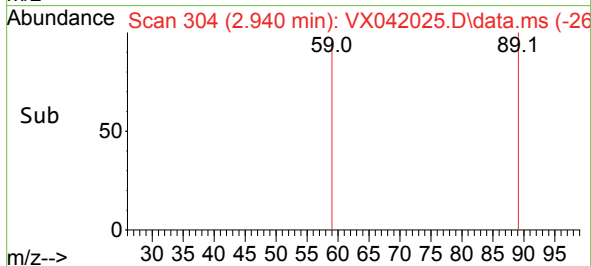
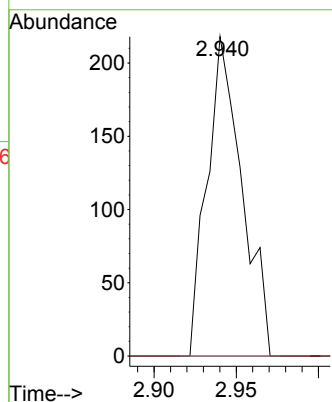


Tgt Ion: 59 Resp: 322

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 2.447 ug/l

RT: 2.385 min Scan# 213

Delta R.T. -0.012 min

Lab File: VX042025.D

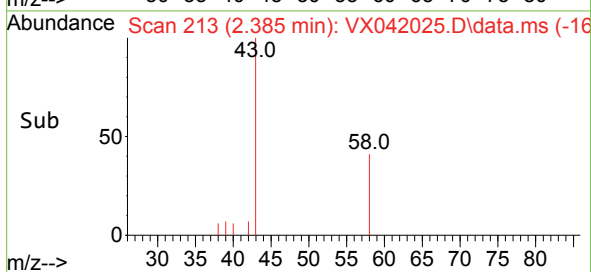
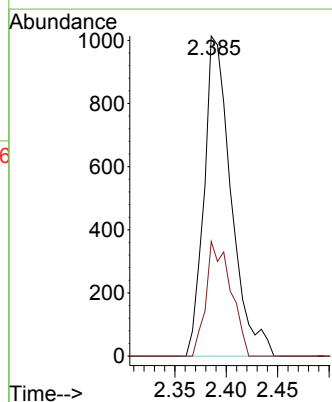
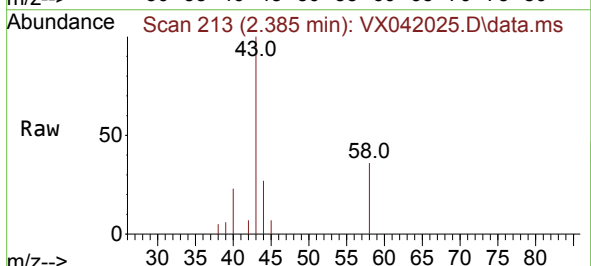
Acq: 25 Jun 2024 12:26

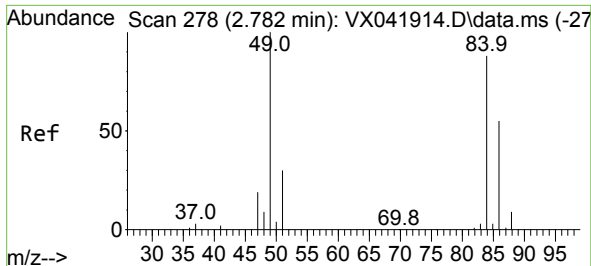
Tgt Ion: 43 Resp: 1855

Ion Ratio Lower Upper

43 100

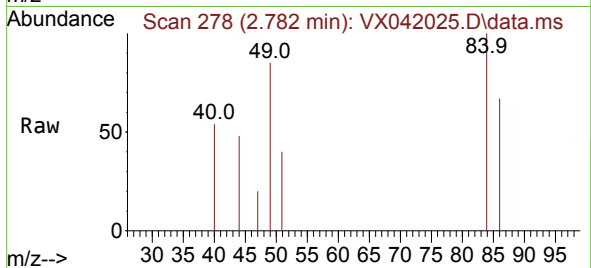
58 35.8 21.9 32.9#



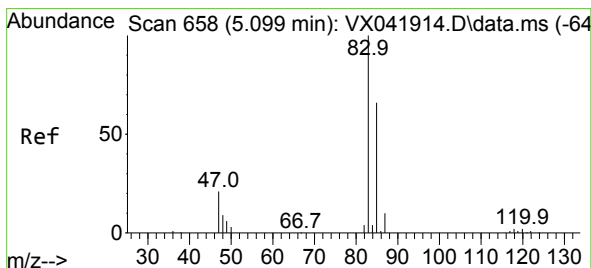
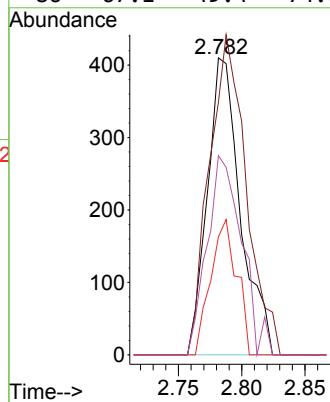
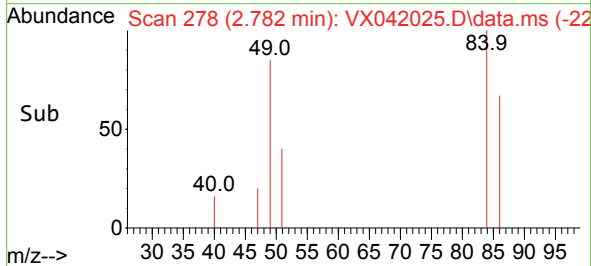


#20  
Methylene Chloride  
Concen: 0.449 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Instrument :  
MSVOA\_X  
ClientSampleId :

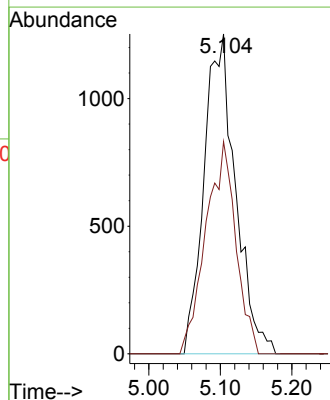
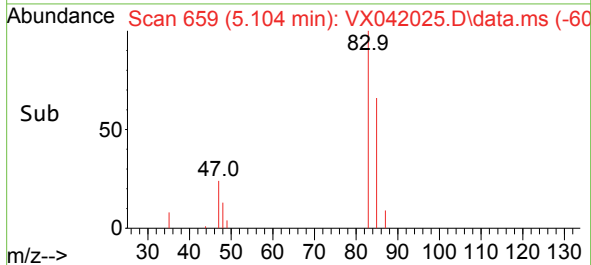
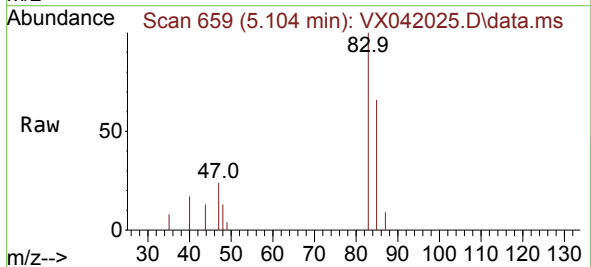


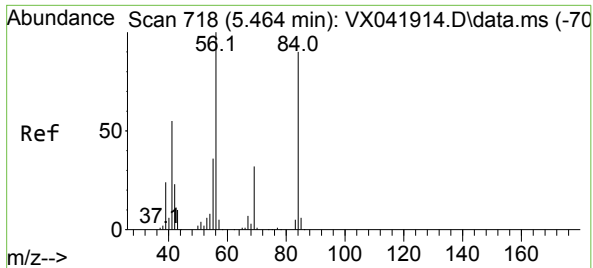
Tgt Ion: 84 Resp: 745  
Ion Ratio Lower Upper  
84 100  
49 85.1 103.6 155.4#  
51 39.8 33.8 50.6  
86 67.1 49.4 74.0



#30  
Chloroform  
Concen: 1.510 ug/l  
RT: 5.104 min Scan# 659  
Delta R.T. 0.006 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

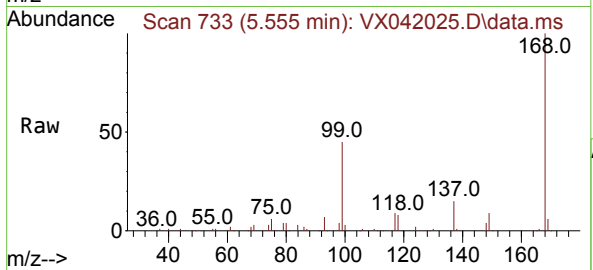
Tgt Ion: 83 Resp: 3814  
Ion Ratio Lower Upper  
83 100  
85 66.3 50.3 75.5



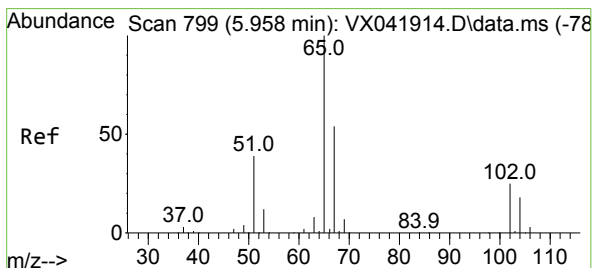
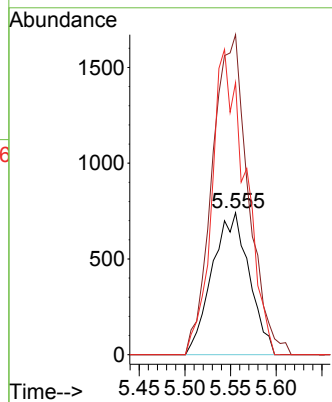
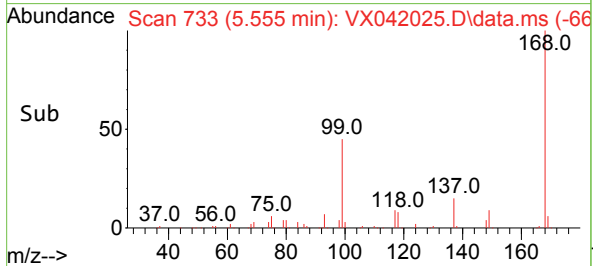


#31  
Cyclohexane  
Concen: 1.035 ug/l  
RT: 5.555 min Scan# 718  
Delta R.T. 0.091 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Instrument :  
MSVOA\_X  
ClientSampleId :

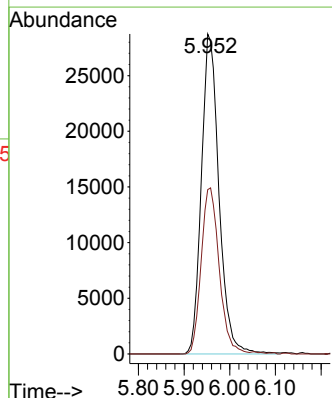
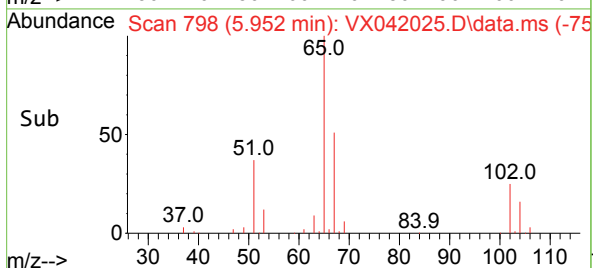
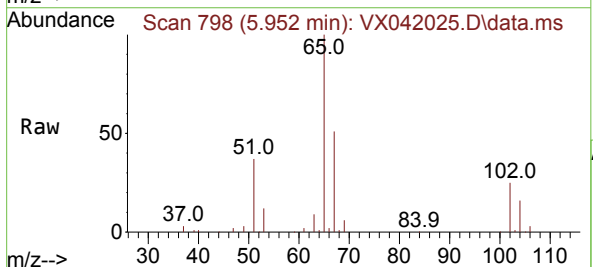


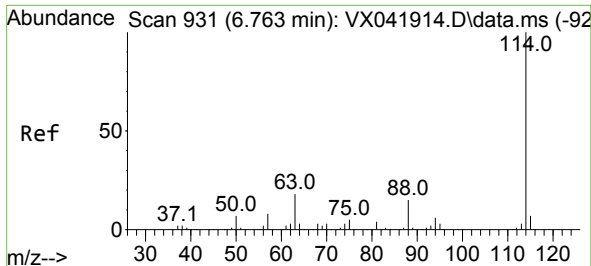
Tgt Ion: 56 Resp: 2091  
Ion Ratio Lower Upper  
56 100  
69 225.5 23.4 35.2#  
84 191.6 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 44.475 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Tgt Ion: 65 Resp: 76795  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 100.2

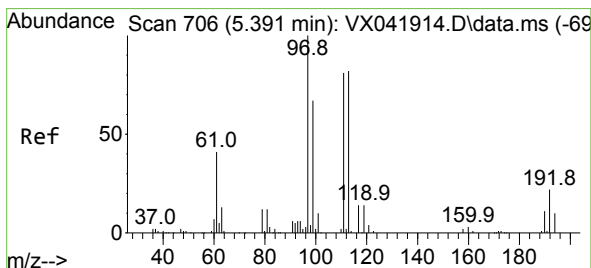
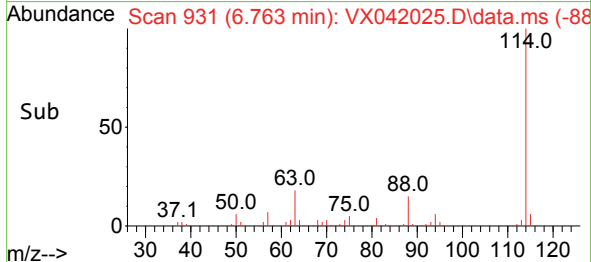
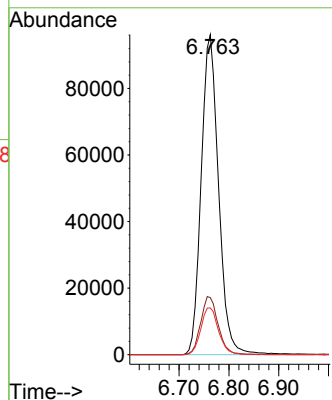
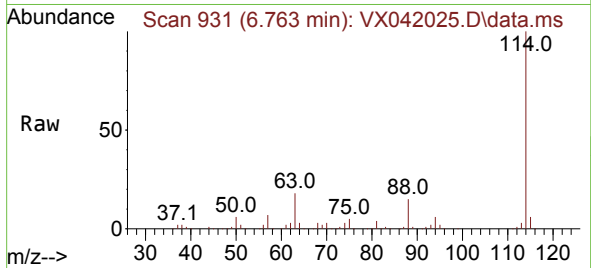




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

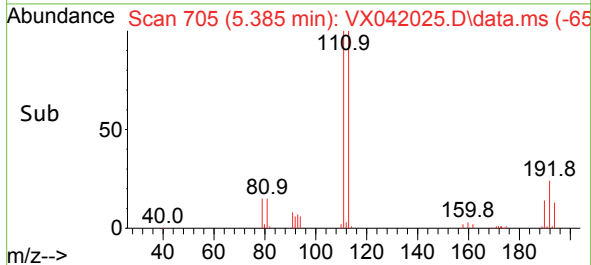
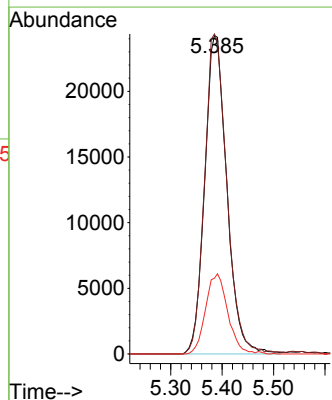
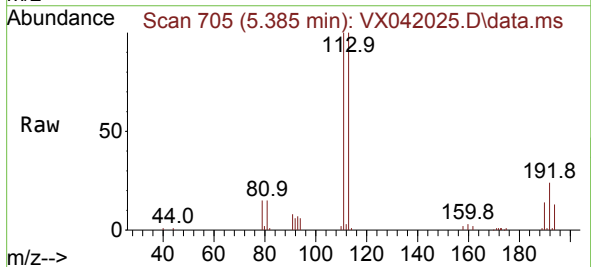
Instrument :  
MSVOA\_X  
ClientSampleId :

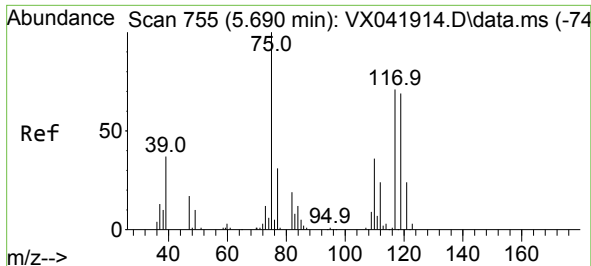
Tgt Ion:114 Resp: 232415  
Ion Ratio Lower Upper  
114 100  
63 17.8 0.0 45.0  
88 14.6 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 44.029 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Tgt Ion:113 Resp: 72609  
Ion Ratio Lower Upper  
113 100  
111 101.1 82.9 124.3  
192 25.1 13.3 19.9#





#36

1,1-Dichloropropene

Concen: 5.038 ug/l

RT: 5.549 min Scan# 713

Delta R.T. -0.140 min

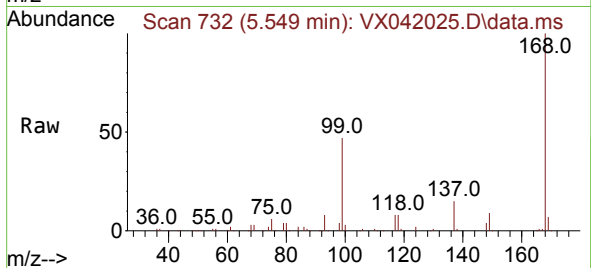
Lab File: VX042025.D

Acq: 25 Jun 2024 12:26

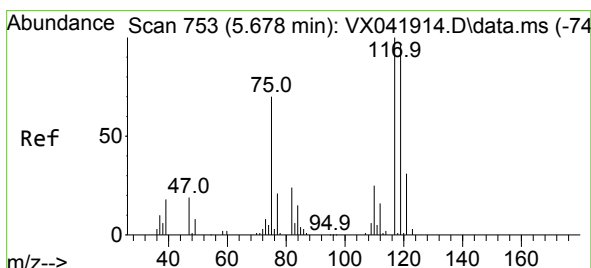
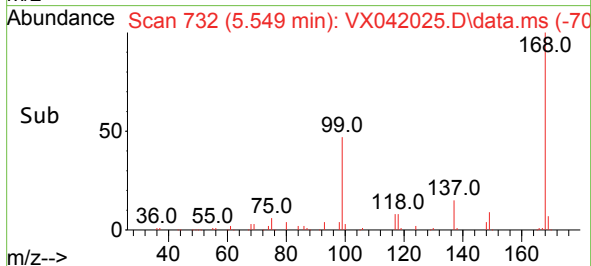
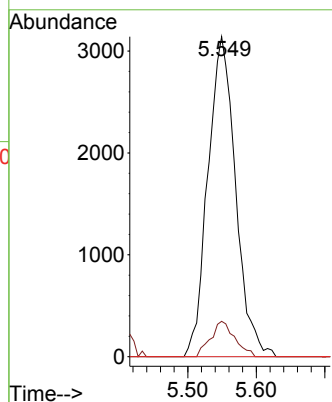
Instrument :

MSVOA\_X

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 8822     |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 9.6 17.0 50.9# |
| 77          | 0.0 24.7 37.1# |



#38

Carbon Tetrachloride

Concen: 6.595 ug/l

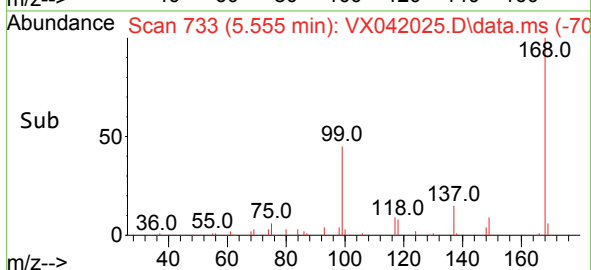
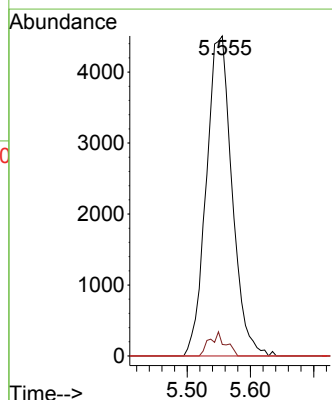
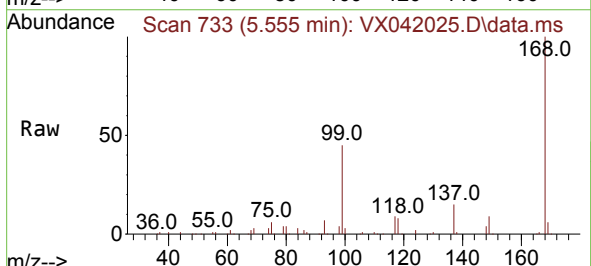
RT: 5.555 min Scan# 733

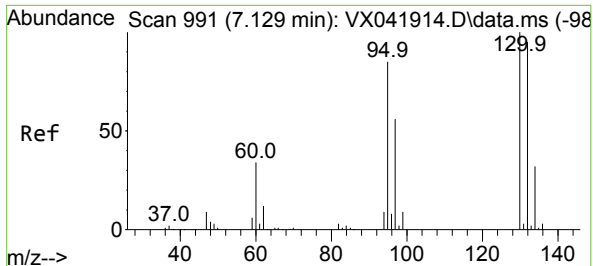
Delta R.T. -0.122 min

Lab File: VX042025.D

Acq: 25 Jun 2024 12:26

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 12760     |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 3.6 78.2 117.2# |
| 121          | 0.0 24.4 36.6#  |

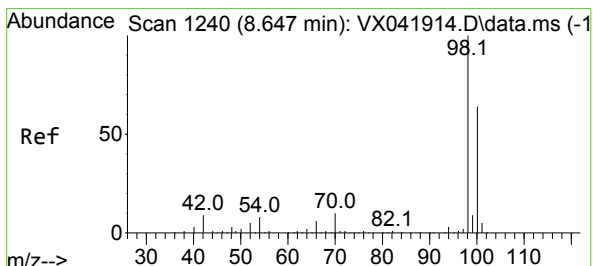
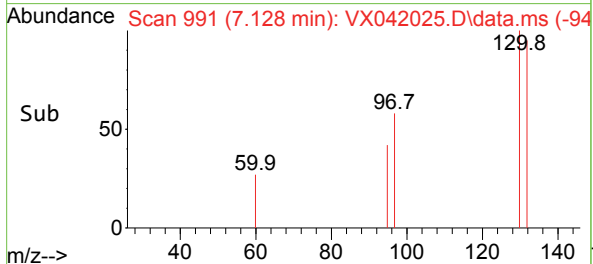
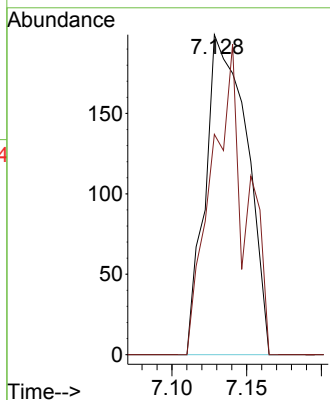
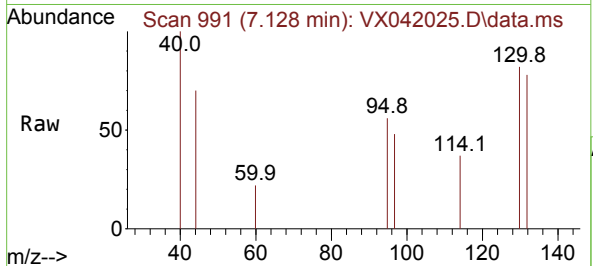




#44  
Trichloroethene  
Concen: 0.243 ug/l  
RT: 7.128 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

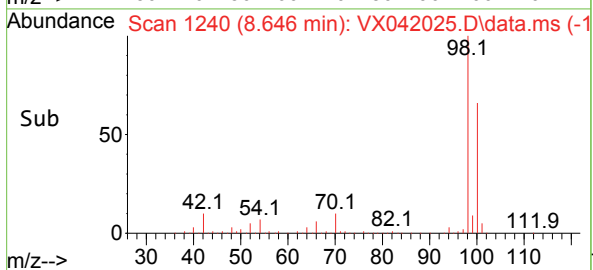
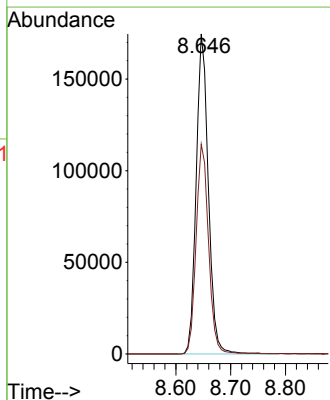
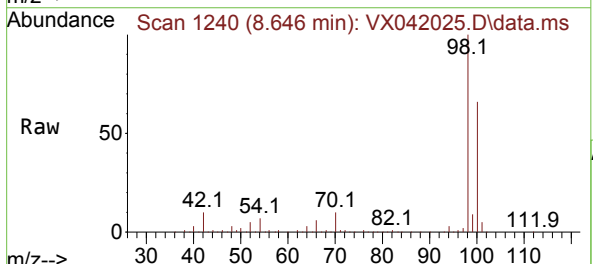
Instrument :  
MSVOA\_X  
ClientSampleId :

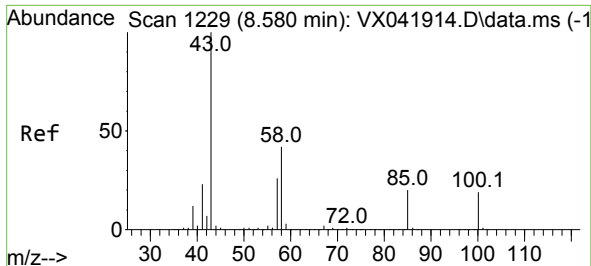
Tgt Ion:130 Resp: 385  
Ion Ratio Lower Upper  
130 100  
95 68.8 0.0 204.4



#50  
Toluene-d8  
Concen: 46.650 ug/l  
RT: 8.646 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Tgt Ion: 98 Resp: 270260  
Ion Ratio Lower Upper  
98 100  
100 67.2 53.1 79.7

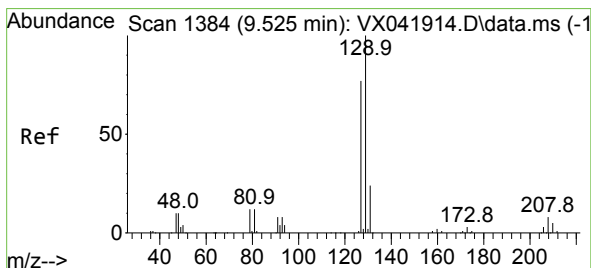
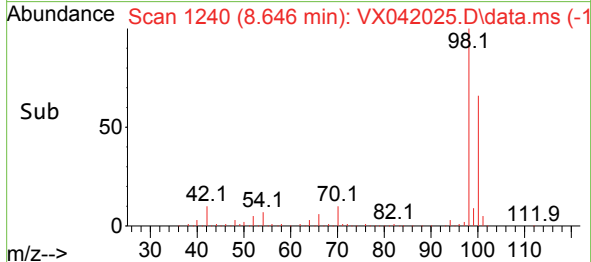
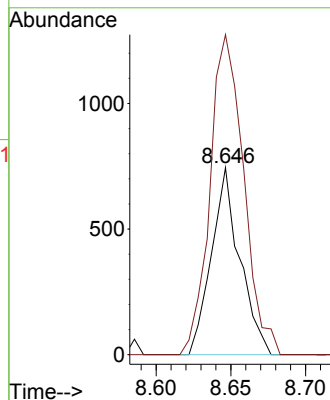
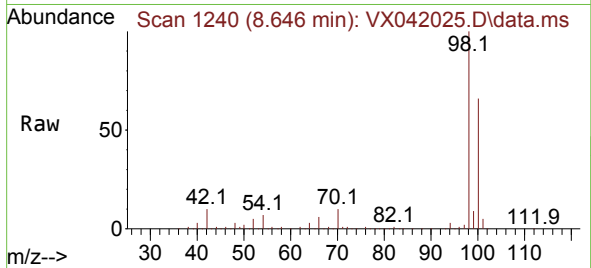




#51  
4-Methyl-2-Pentanone  
Concen: 0.408 ug/l  
RT: 8.646 min Scan# 11  
Delta R.T. 0.067 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

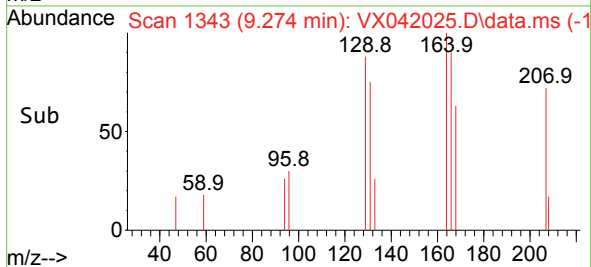
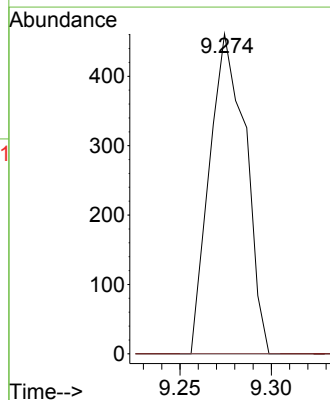
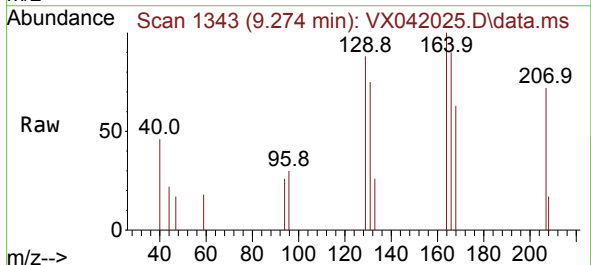
Instrument :  
MSVOA\_X  
ClientSampleId :

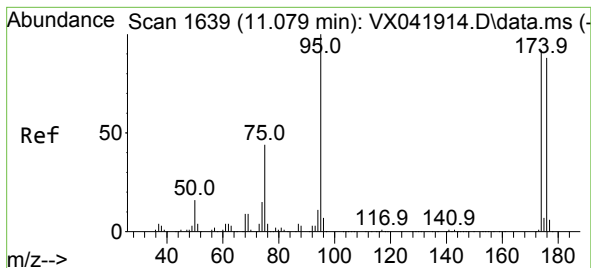
Tgt Ion: 43 Resp: 983  
Ion Ratio Lower Upper  
43 100  
58 203.1 30.4 45.6#



#60  
Dibromochloromethane  
Concen: 0.371 ug/l  
RT: 9.274 min Scan# 1343  
Delta R.T. -0.250 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

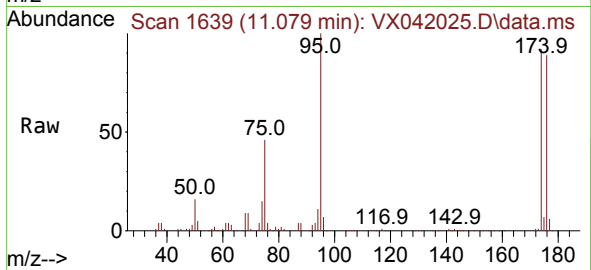
Tgt Ion: 129 Resp: 632  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



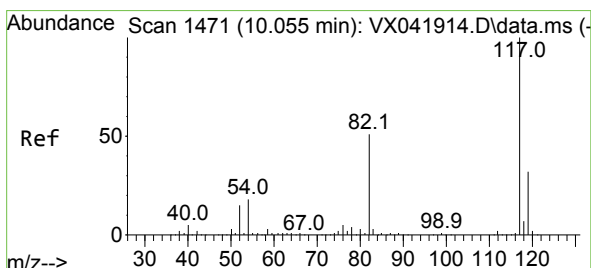
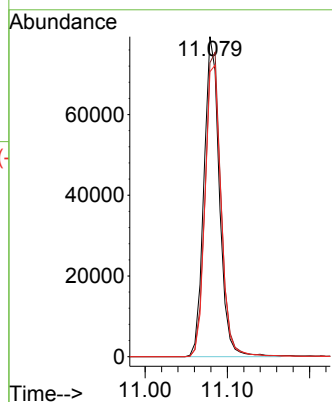
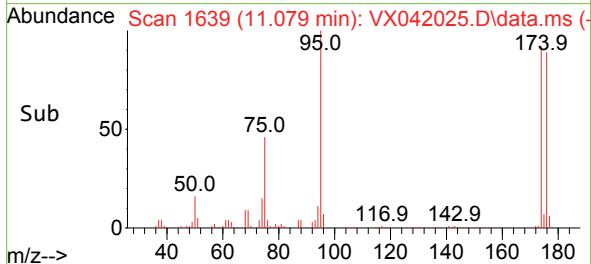


#62  
4-Bromofluorobenzene  
Concen: 48.463 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

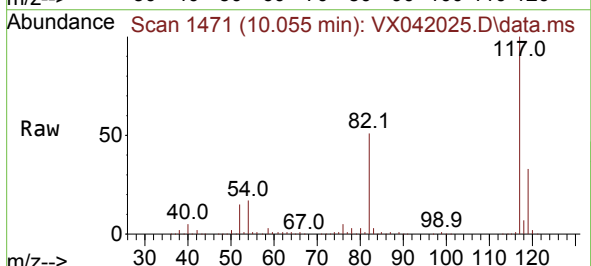
Instrument :  
MSVOA\_X  
ClientSampleId :



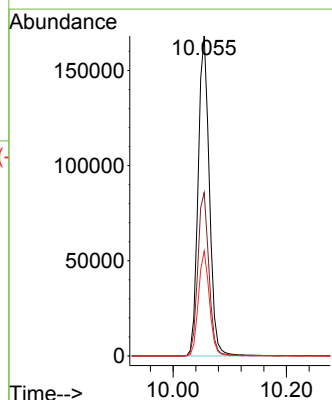
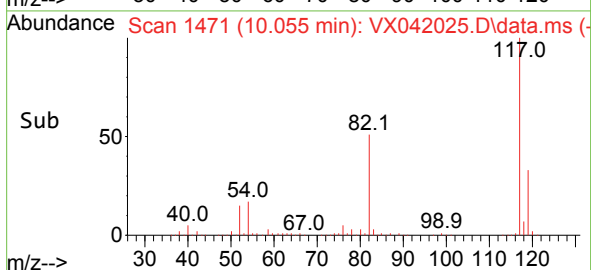
Tgt Ion: 95 Resp: 103497  
Ion Ratio Lower Upper  
95 100  
174 98.2 0.0 135.6  
176 94.9 0.0 131.0

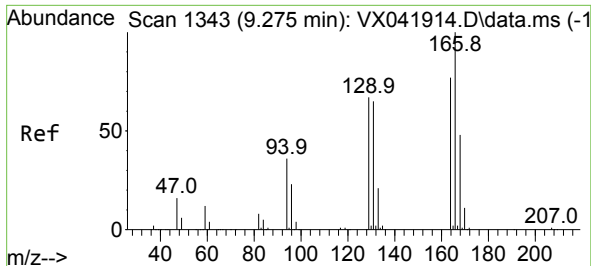


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26



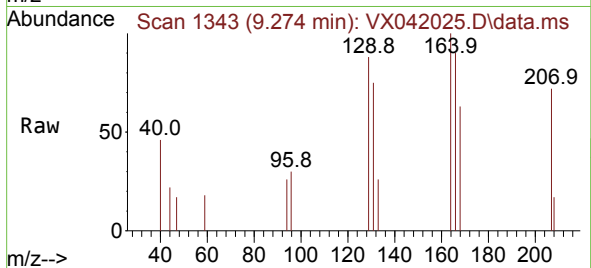
Tgt Ion: 117 Resp: 231167  
Ion Ratio Lower Upper  
117 100  
82 51.0 46.2 69.4  
119 32.8 25.5 38.3



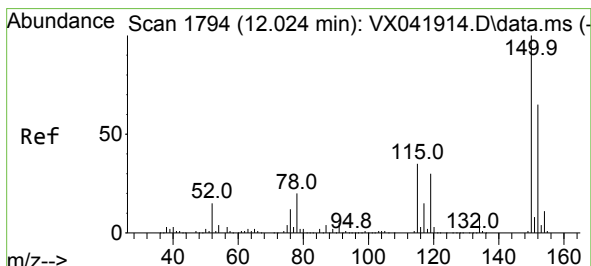
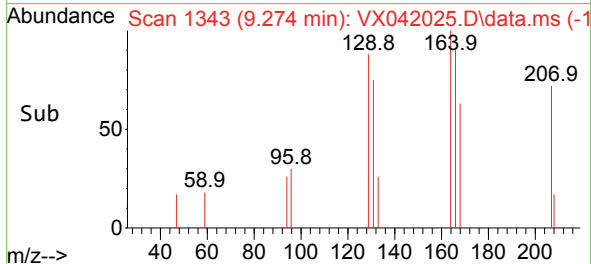
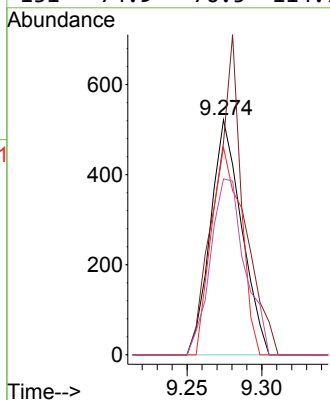


#64  
Tetrachloroethene  
Concen: 0.449 ug/l  
RT: 9.274 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Instrument :  
MSVOA\_X  
ClientSampleId :

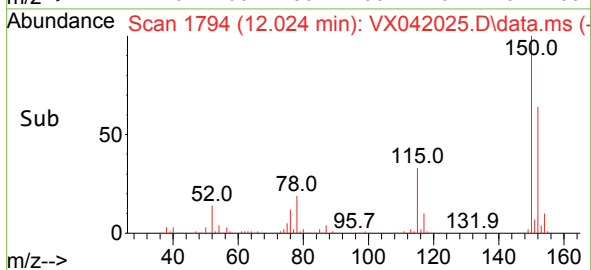
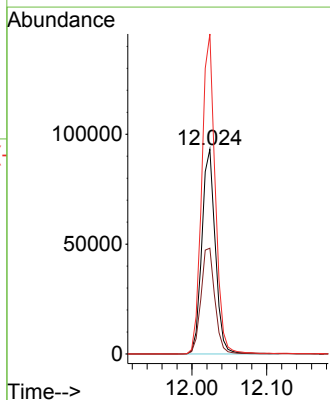
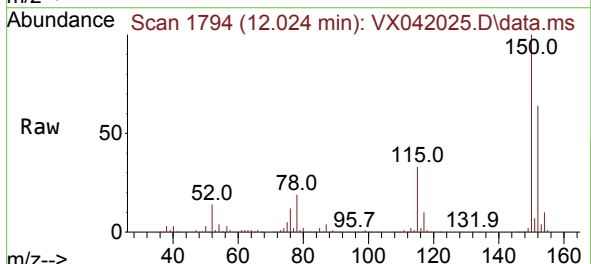


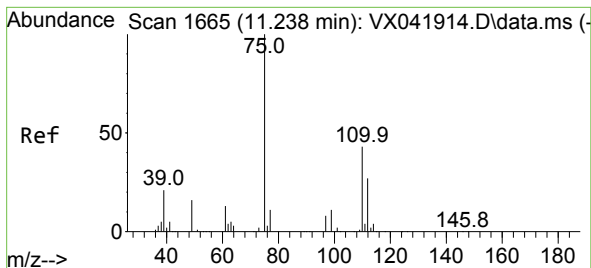
Tgt Ion:164 Resp: 755  
Ion Ratio Lower Upper  
164 100  
166 90.2 102.7 154.1#  
129 88.3 80.4 120.6  
131 74.9 76.5 114.7#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX042025.D  
Acq: 25 Jun 2024 12:26

Tgt Ion:152 Resp: 116922  
Ion Ratio Lower Upper  
152 100  
115 53.6 43.3 129.9  
150 155.9 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 22.524 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042025.D

Acq: 25 Jun 2024 12:26

Instrument :

MSVOA\_X

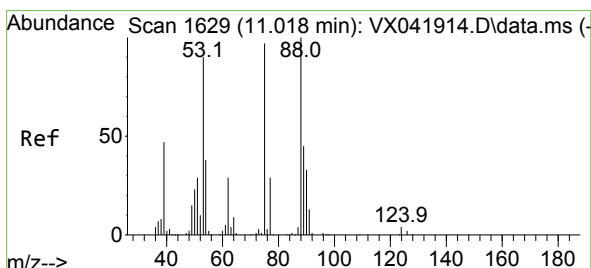
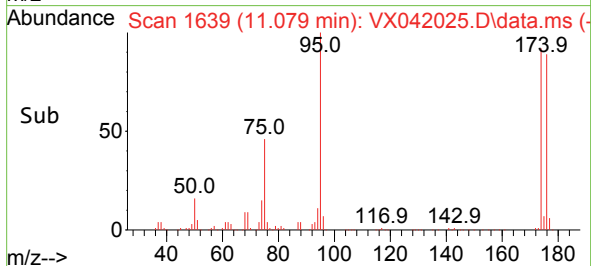
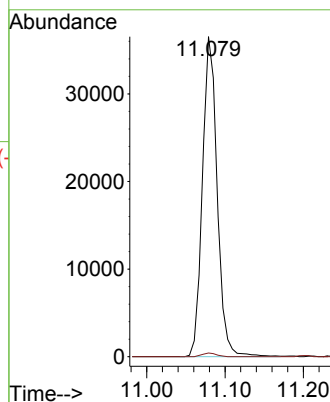
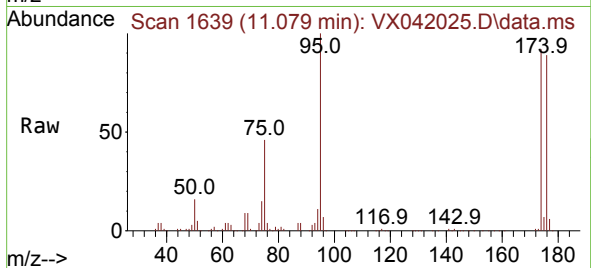
ClientSampleId :

Tgt Ion: 75 Resp: 47809

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.965 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX042025.D

Acq: 25 Jun 2024 12:26

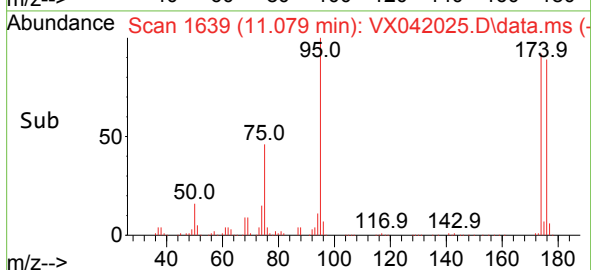
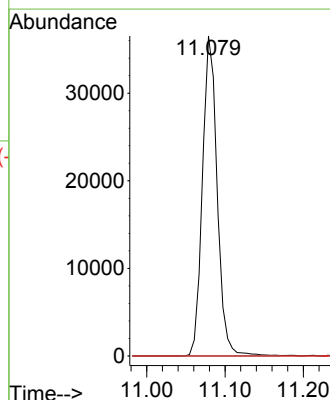
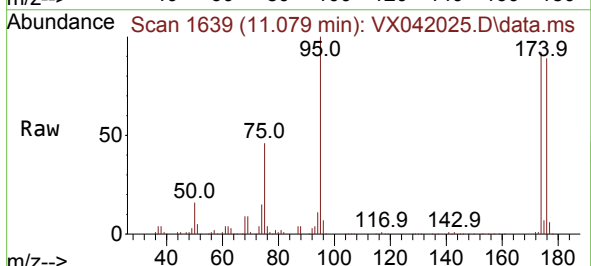
Tgt Ion: 75 Resp: 47809

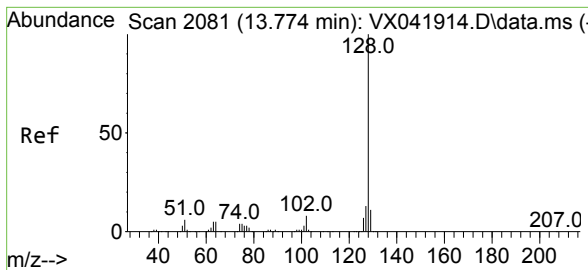
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

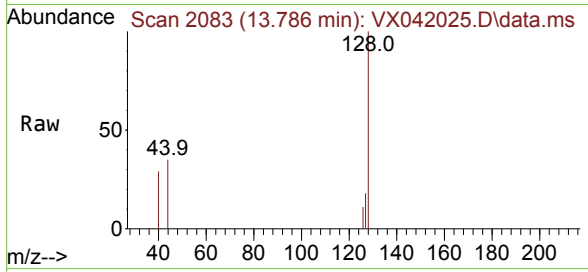
89 0.0 36.9 55.3#





#95  
 Naphthalene  
 Concen: 0.850 ug/l  
 RT: 13.786 min Scan# 2083  
 Delta R.T. 0.012 min  
 Lab File: VX042025.D  
 Acq: 25 Jun 2024 12:26

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 870   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 7.0   | 10.3  | 15.5# |
| 129      | 0.0   | 8.8   | 13.2# |

