

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062124\  
 Data File : VX041968.D  
 Acq On : 21 Jun 2024 10:01  
 Operator : JC/MD  
 Sample : VX0621MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0621MBL01

Quant Time: Jun 22 04:38:02 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

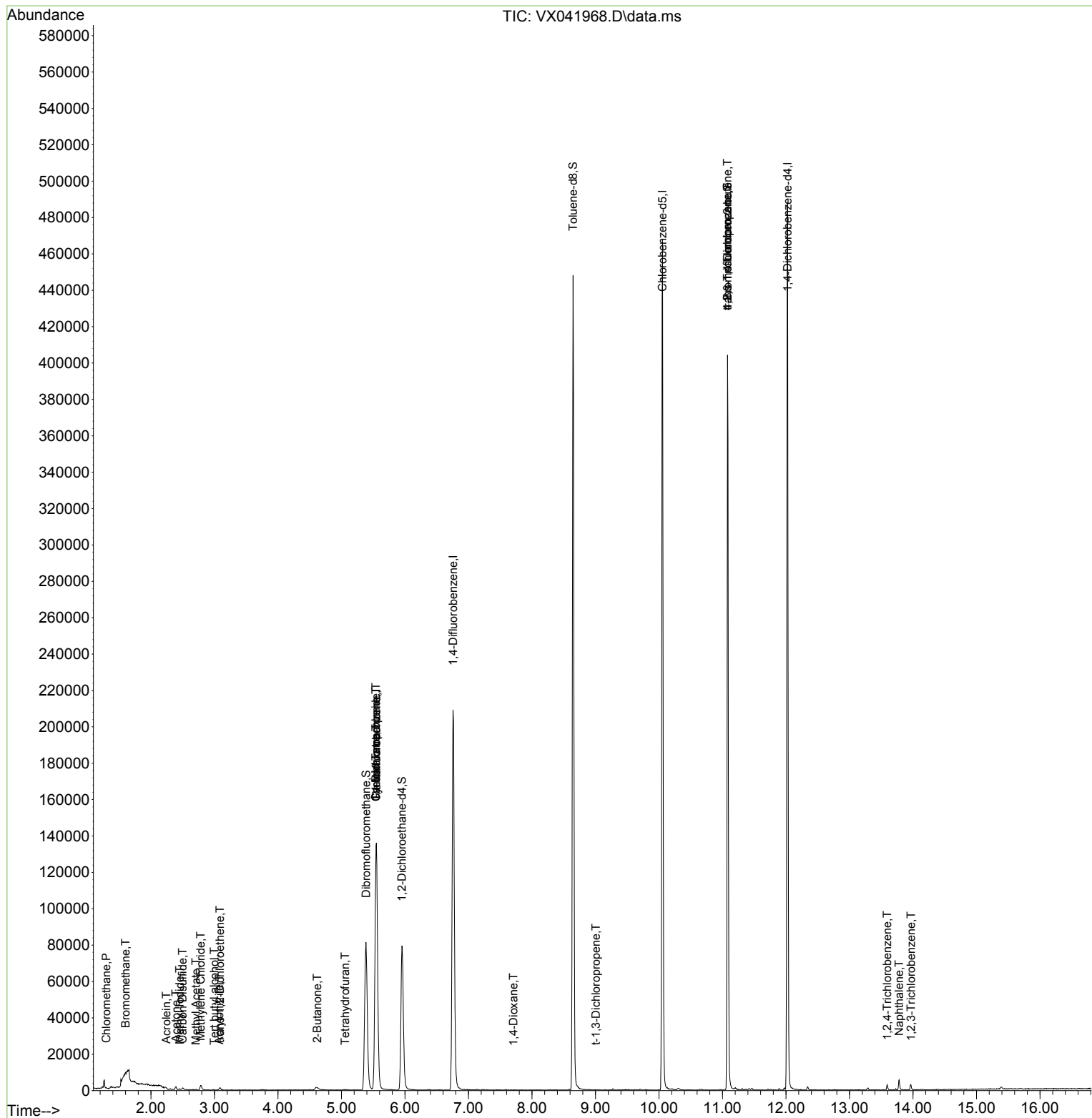
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------|----------|
| -----                         |        |       |          |           |       |          |
| Internal Standards            |        |       |          |           |       |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 150834   | 50.000    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 232586   | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 234125   | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 119351   | 50.000    | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 76997    | 44.269    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =     | 88.540%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 72461    | 43.907    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =     | 87.820%  |
| 50) Toluene-d8                | 8.647  | 98    | 275853   | 47.580    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =     | 95.160%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 105687   | 49.452    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =     | 98.900%  |
| Target Compounds              |        |       |          |           |       |          |
|                               |        |       |          |           |       | Qvalue   |
| 3) Chloromethane              | 1.295  | 50    | 351      | 0.243     | ug/l  | # 80     |
| 5) Bromomethane               | 1.599  | 94    | 717      | 1.005     | ug/l  | 93       |
| 6) Chloroethane               | 1.660  | 64    | 492      | Below Cal |       | 98       |
| 10) Methyl Iodide             | 2.453  | 142   | 447      | 0.276     | ug/l  | # 59     |
| 11) Tert butyl alcohol        | 2.995  | 59    | 246      | 0.745     | ug/l  | # 78     |
| 13) Acrolein                  | 2.239  | 56    | 547      | 1.478     | ug/l  | 90       |
| 15) Acrylonitrile             | 3.075  | 53    | 699      | 0.811     | ug/l  | # 80     |
| 16) Acetone                   | 2.392  | 43    | 1811     | 2.371     | ug/l  | 90       |
| 17) Carbon Disulfide          | 2.496  | 76    | 1583     | 0.597     | ug/l  | 98       |
| 18) Methyl Acetate            | 2.709  | 43    | 438      | 0.210     | ug/l  | # 78     |
| 20) Methylene Chloride        | 2.782  | 84    | 1526     | 0.913     | ug/l  | 93       |
| 21) trans-1,2-Dichloroethene  | 3.087  | 96    | 326      | 0.247     | ug/l  | 80       |
| 25) 2-Butanone                | 4.617  | 43    | 350      | 0.295     | ug/l  | # 51     |
| 29) Tetrahydrofuran           | 5.056  | 42    | 286      | 0.373     | ug/l  | # 34     |
| 31) Cyclohexane               | 5.544  | 56    | 2242     | 1.102     | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 8949     | 5.106     | ug/l  | # 51     |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 12740    | 6.580     | ug/l  | # 16     |
| 49) 1,4-Dioxane               | 7.708  | 88    | 20       | 20.375    | ug/l  | # 12     |
| 53) t-1,3-Dichloropropene     | 9.007  | 75    | 93       | 0.937     | ug/l  | # 43     |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 48008    | 22.157    | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 48008    | 62.924    | ug/l  | # 5      |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 1137     | 0.446     | ug/l  | 88       |
| 95) Naphthalene               | 13.780 | 128   | 4638     | 1.282     | ug/l  | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.969 | 180   | 1291     | 0.481     | ug/l  | 85       |
| -----                         |        |       |          |           |       |          |

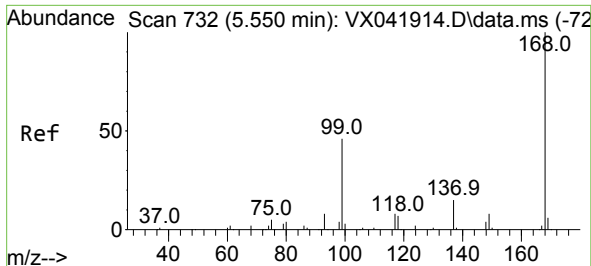
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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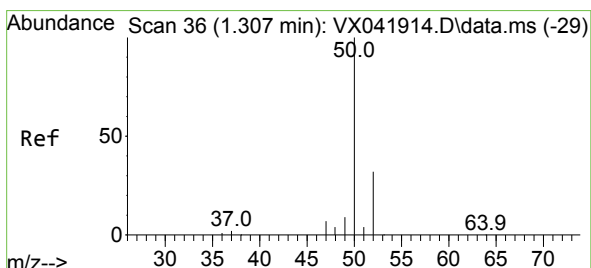
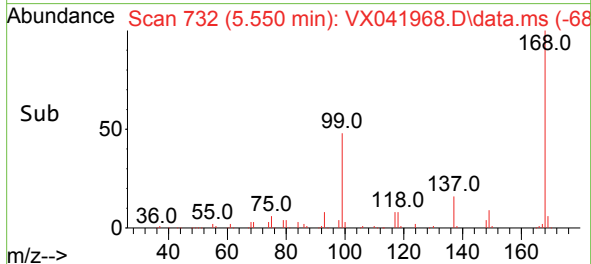
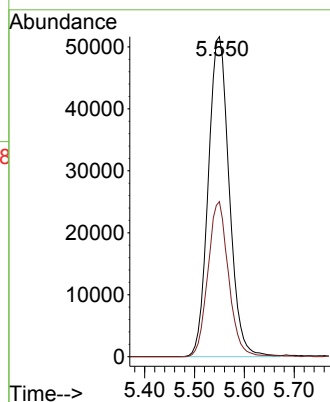
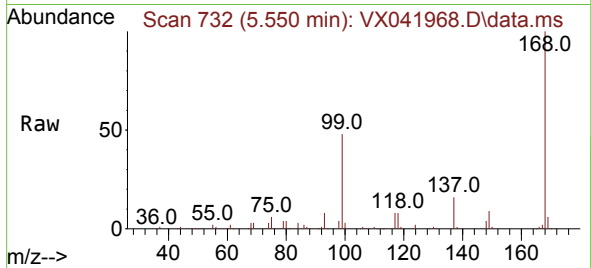




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

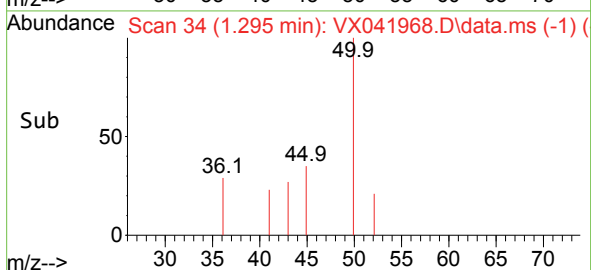
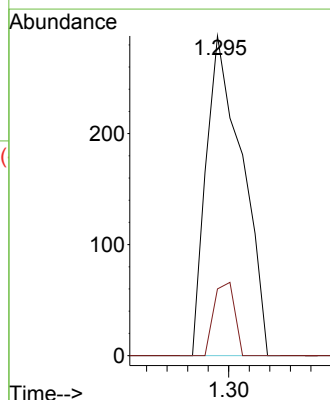
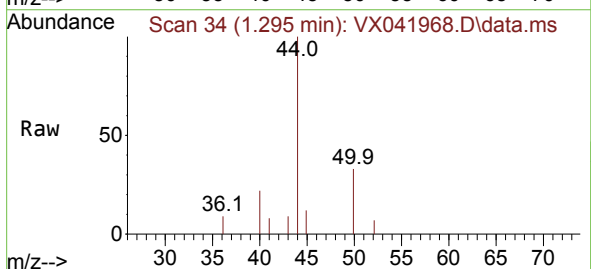
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

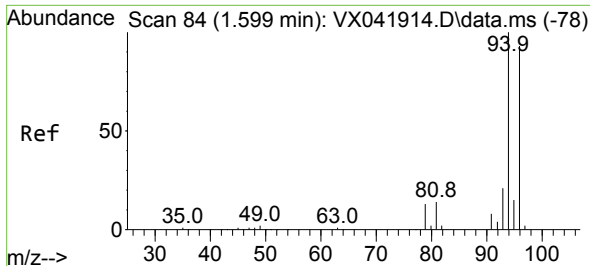
Tgt Ion:168 Resp: 150834  
Ion Ratio Lower Upper  
168 100  
99 48.4 56.6 85.0#



#3  
Chloromethane  
Concen: 0.243 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. -0.012 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 50 Resp: 351  
Ion Ratio Lower Upper  
50 100  
52 20.8 25.5 38.3#

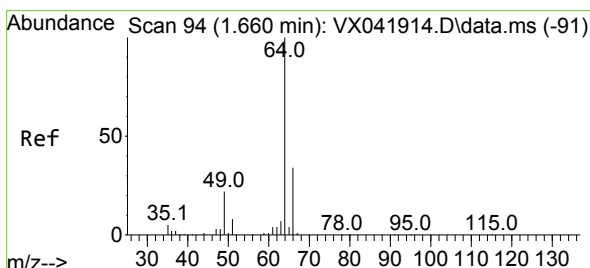
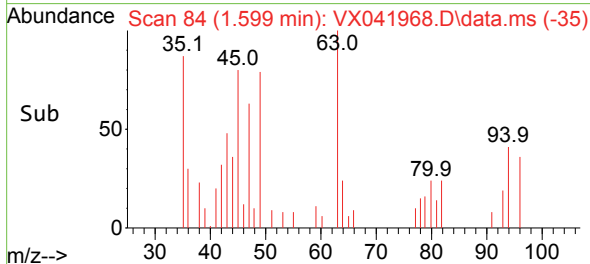
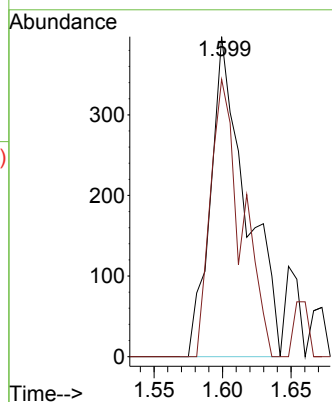
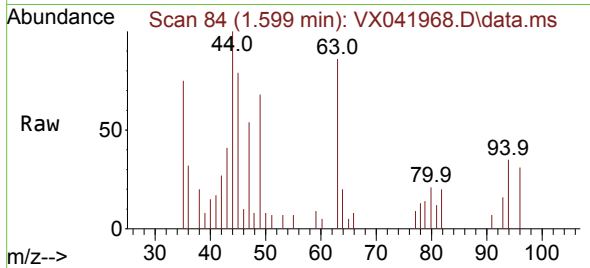




#5  
Bromomethane  
Concen: 1.005 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

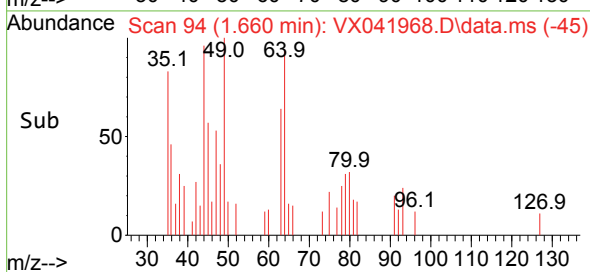
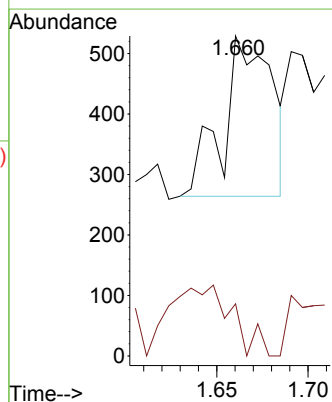
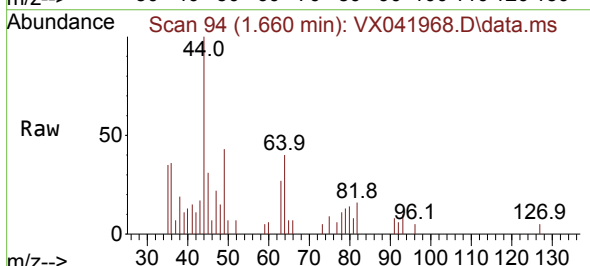
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

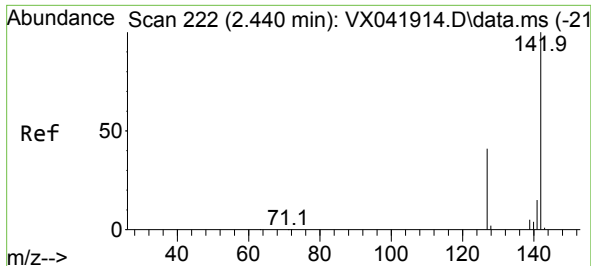
Tgt Ion: 94 Resp: 717  
Ion Ratio Lower Upper  
94 100  
96 86.6 74.6 111.8



#6  
Chloroethane  
Concen: Below Cal  
RT: 1.660 min Scan# 94  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

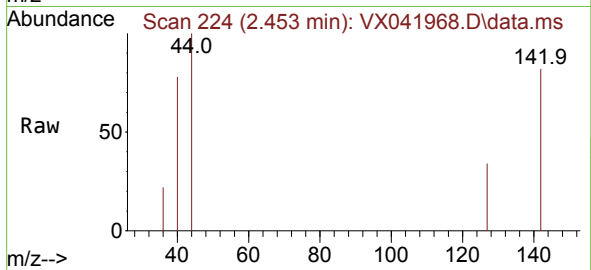
Tgt Ion: 64 Resp: 492  
Ion Ratio Lower Upper  
64 100  
66 32.5 25.1 37.7



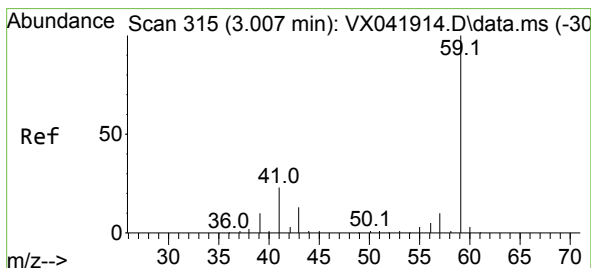
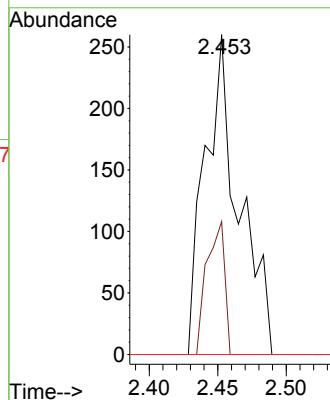
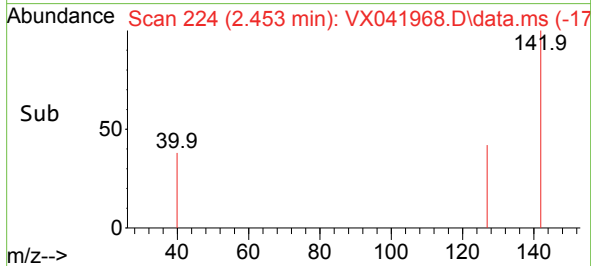


#10  
Methyl Iodide  
Concen: 0.276 ug/l  
RT: 2.453 min Scan# 21  
Delta R.T. 0.012 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

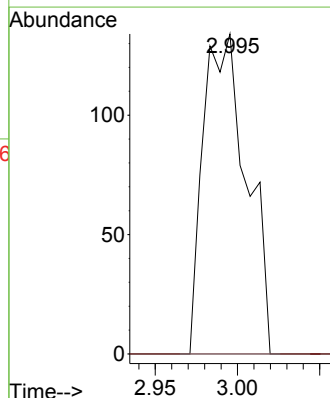
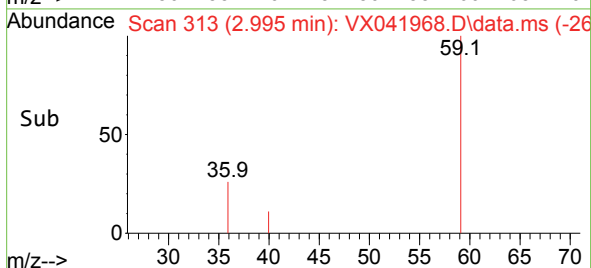
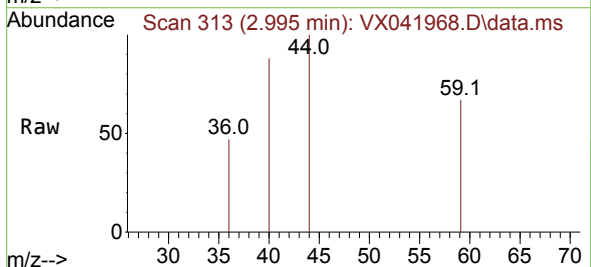


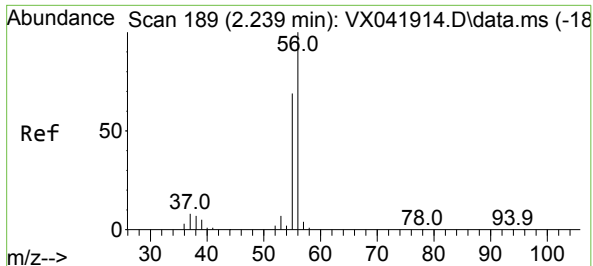
Tgt Ion:142 Resp: 447  
Ion Ratio Lower Upper  
142 100  
127 21.9 41.6 62.4#  
141 0.0 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 0.745 ug/l  
RT: 2.995 min Scan# 313  
Delta R.T. -0.012 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 59 Resp: 246  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

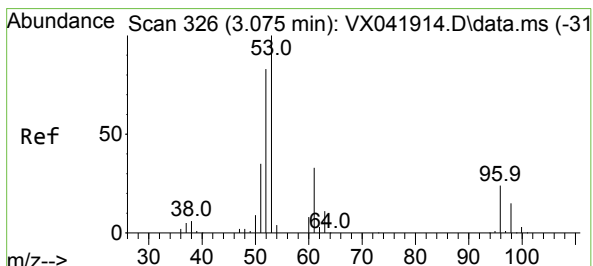
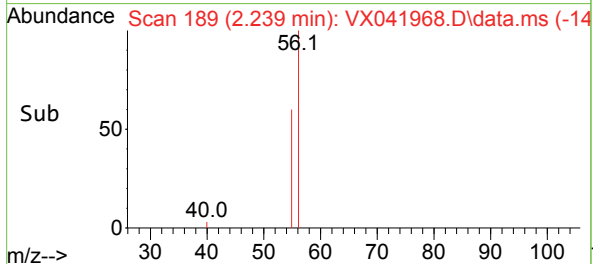
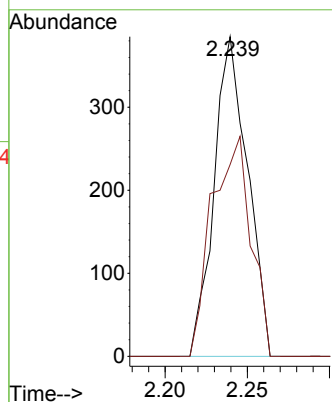
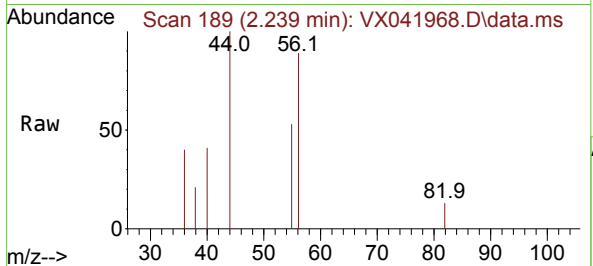




#13  
Acrolein  
Concen: 1.478 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

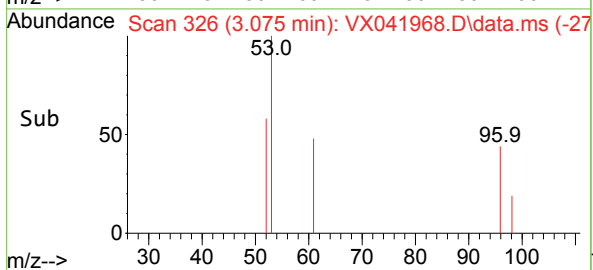
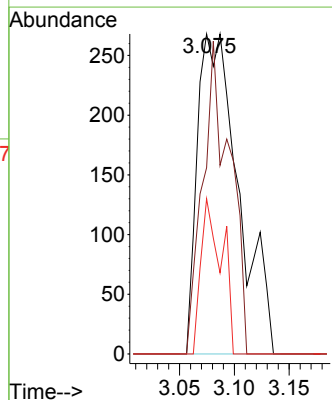
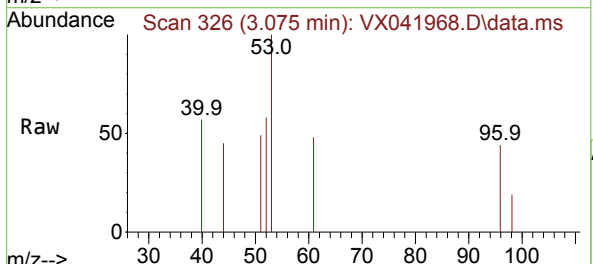
Instrument :  
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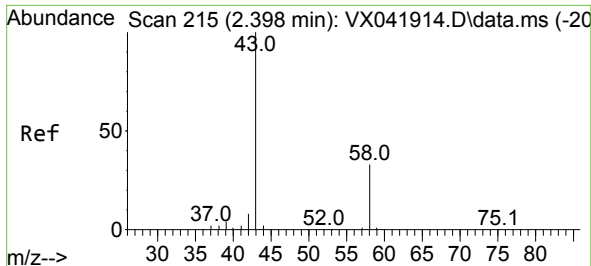
Tgt Ion: 56 Resp: 547  
Ion Ratio Lower Upper  
56 100  
55 79.7 57.1 85.7



#15  
Acrylonitrile  
Concen: 0.811 ug/l  
RT: 3.075 min Scan# 326  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 53 Resp: 699  
Ion Ratio Lower Upper  
53 100  
52 64.7 66.0 99.0#  
51 24.7 29.8 44.6#

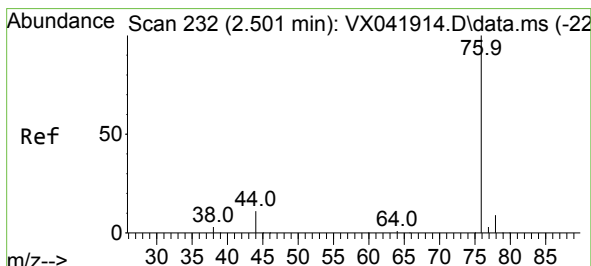
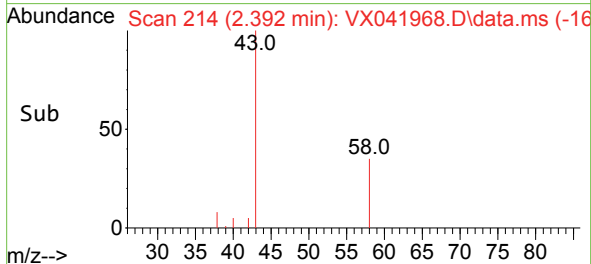
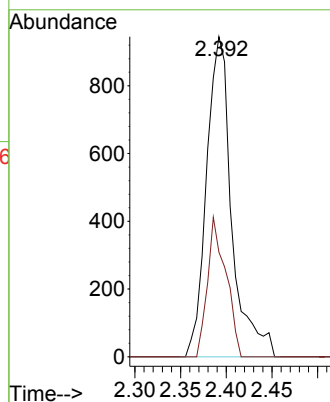
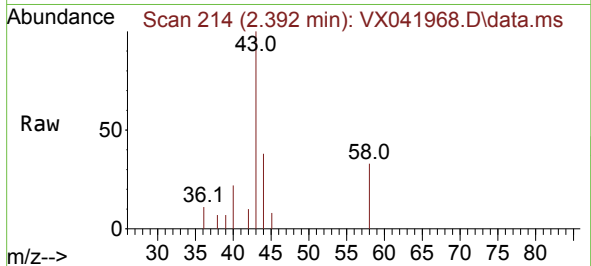




#16  
Acetone  
Concen: 2.371 ug/l  
RT: 2.392 min Scan# 215  
Delta R.T. -0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

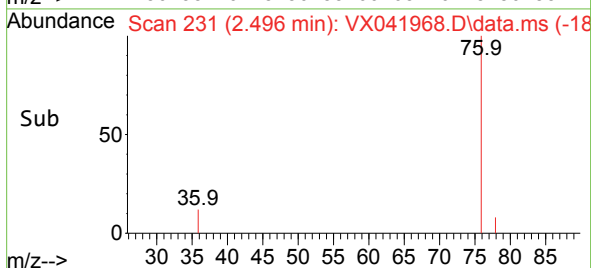
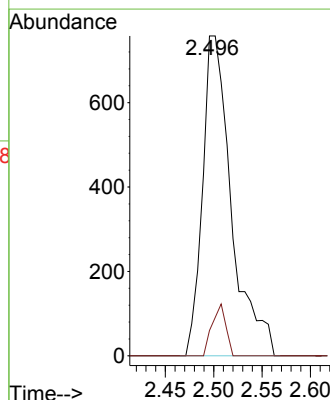
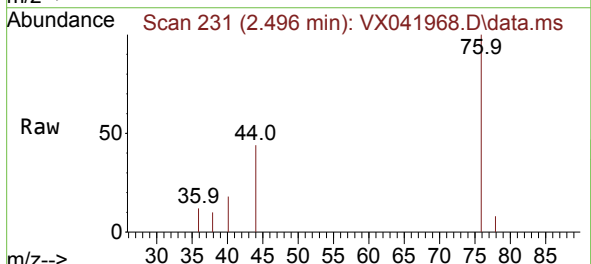
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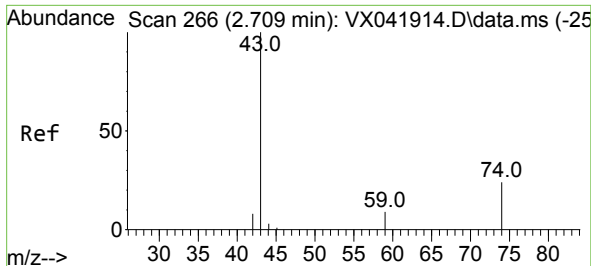
Tgt Ion: 43 Resp: 1811  
Ion Ratio Lower Upper  
43 100  
58 32.7 21.9 32.9



#17  
Carbon Disulfide  
Concen: 0.597 ug/l  
RT: 2.496 min Scan# 231  
Delta R.T. -0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 76 Resp: 1583  
Ion Ratio Lower Upper  
76 100  
78 7.9 7.0 10.6

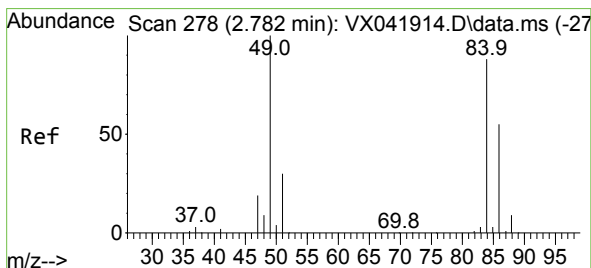
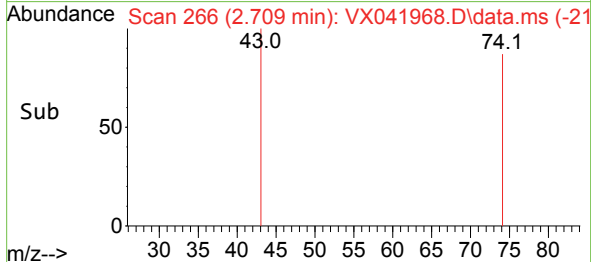
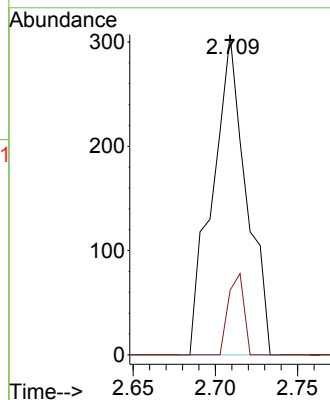
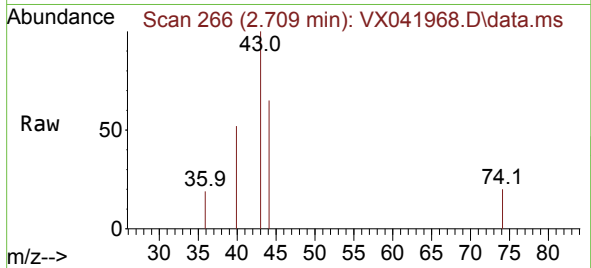




#18  
Methyl Acetate  
Concen: 0.210 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

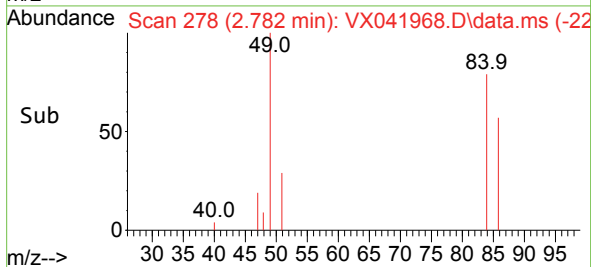
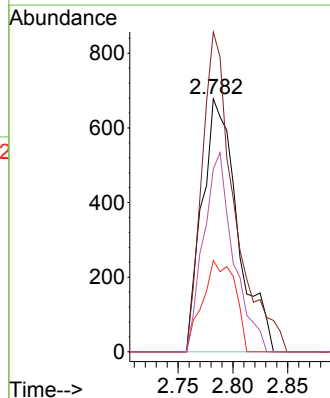
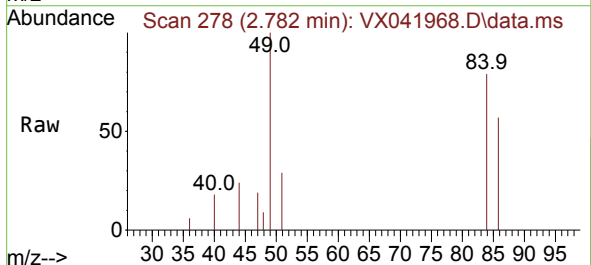
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

Tgt Ion: 43 Resp: 438  
Ion Ratio Lower Upper  
43 100  
74 11.6 17.8 26.8#

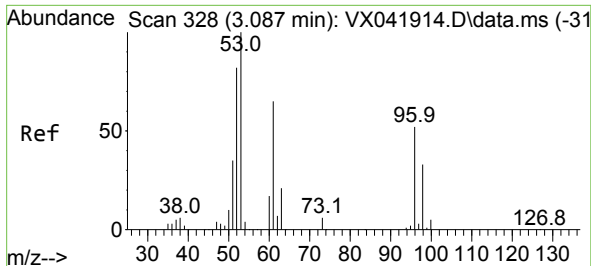


#20  
Methylene Chloride  
Concen: 0.913 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 84 Resp: 1526  
Ion Ratio Lower Upper  
84 100  
49 126.4 103.6 155.4  
51 36.1 33.8 50.6  
86 72.3 49.4 74.0



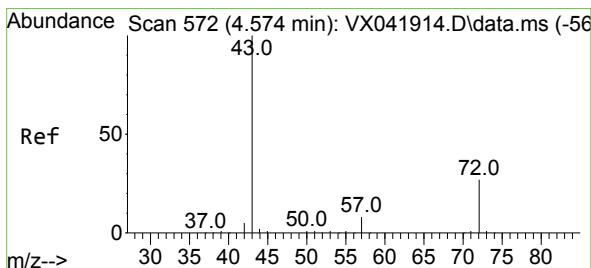
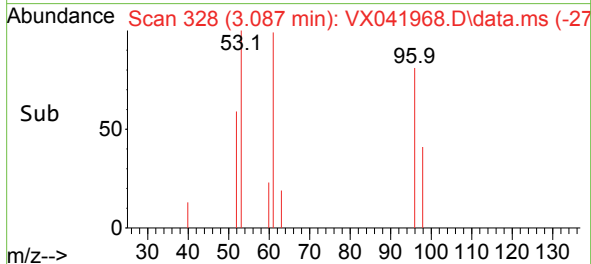
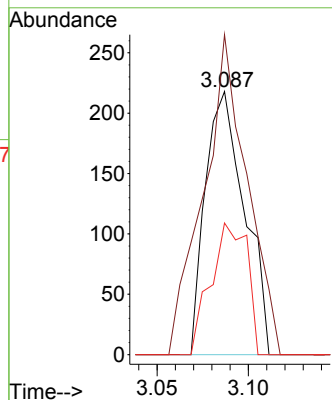
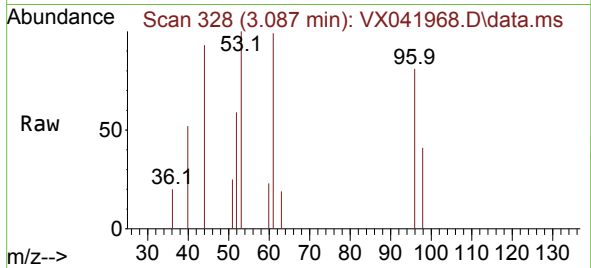




#21  
trans-1,2-Dichloroethene  
Concen: 0.247 ug/l  
RT: 3.087 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

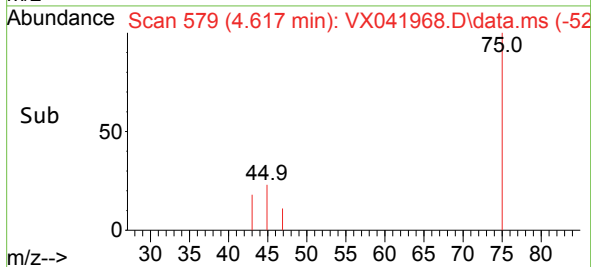
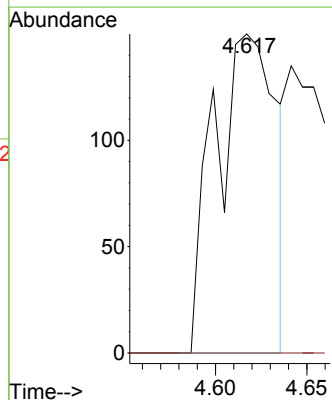
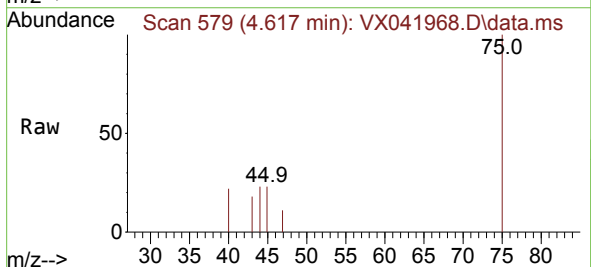
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

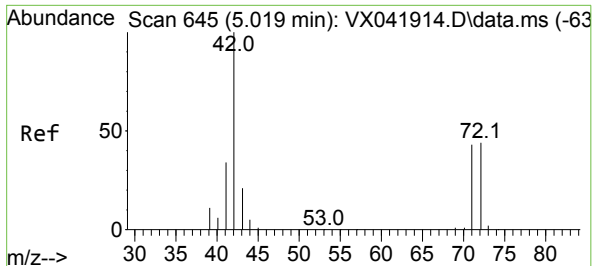
Tgt Ion: 96 Resp: 326  
Ion Ratio Lower Upper  
96 100  
61 121.6 119.2 178.8  
98 50.0 48.7 73.1



#25  
2-Butanone  
Concen: 0.295 ug/l  
RT: 4.617 min Scan# 579  
Delta R.T. 0.043 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 43 Resp: 350  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#





#29

Tetrahydrofuran

Concen: 0.373 ug/l

RT: 5.056 min Scan# 61

Delta R.T. 0.037 min

Lab File: VX041968.D

Acq: 21 Jun 2024 10:01

Instrument :

MSVOA\_X

ClientSampleId :

VX0621MBL01

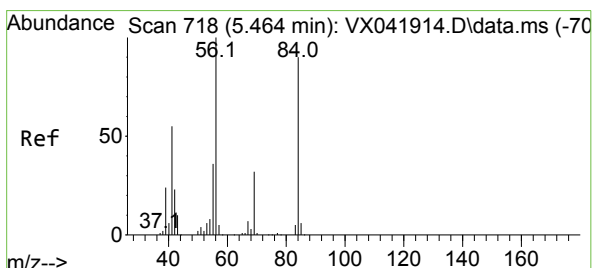
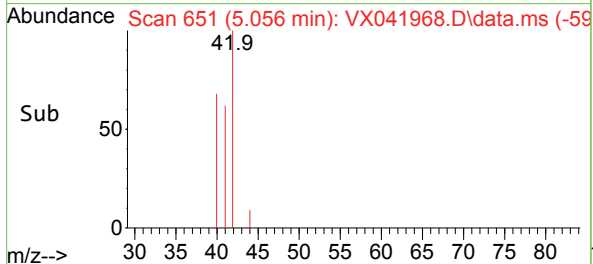
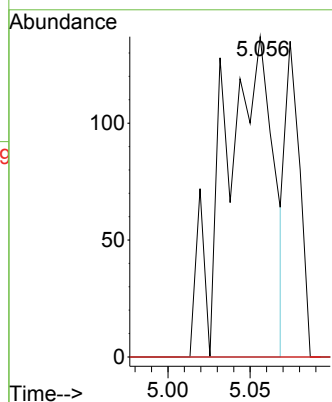
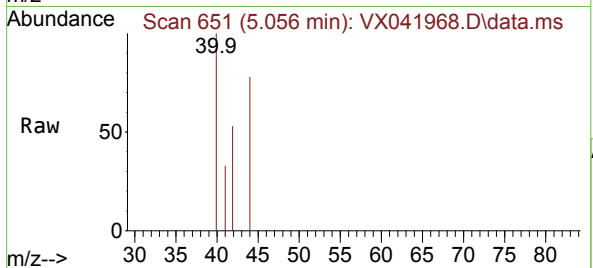
Tgt Ion: 42 Resp: 286

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 0.0 32.2 48.2#



#31

Cyclohexane

Concen: 1.102 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.079 min

Lab File: VX041968.D

Acq: 21 Jun 2024 10:01

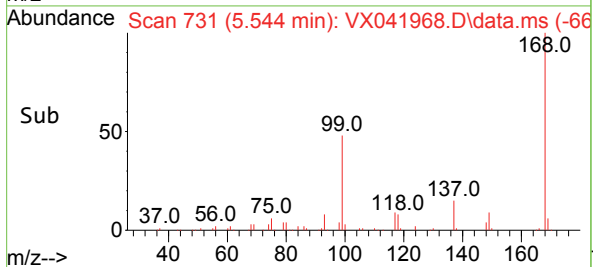
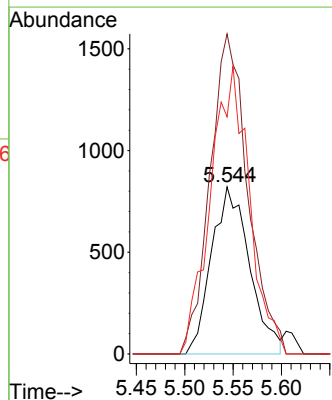
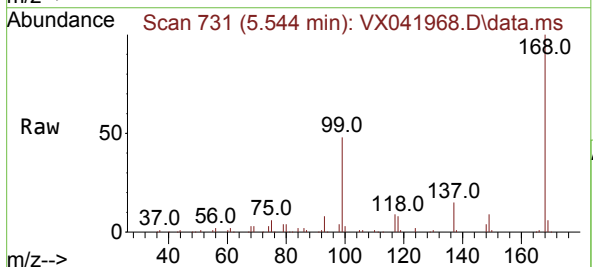
Tgt Ion: 56 Resp: 2242

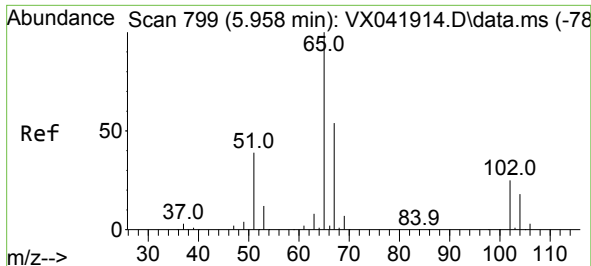
Ion Ratio Lower Upper

56 100

69 191.6 23.4 35.2#

84 142.0 65.9 98.9#

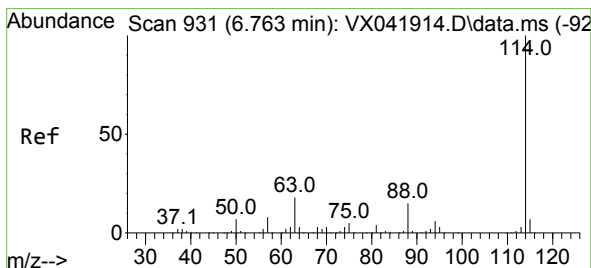
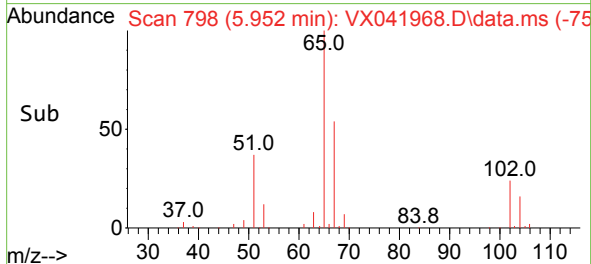
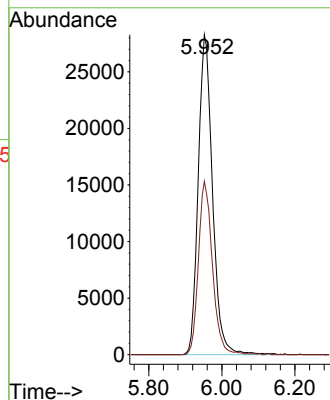
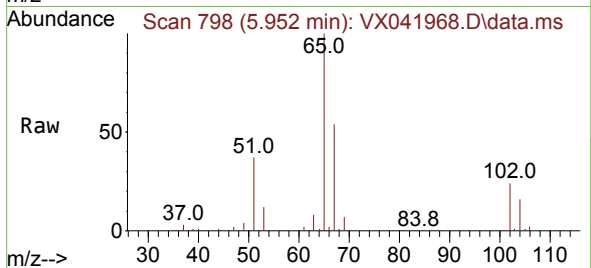




#33  
1,2-Dichloroethane-d4  
Concen: 44.269 ug/l  
RT: 5.952 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

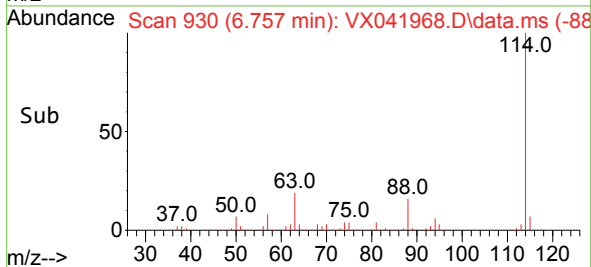
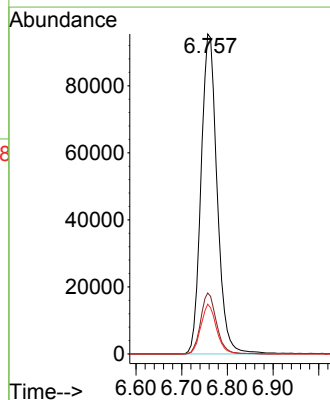
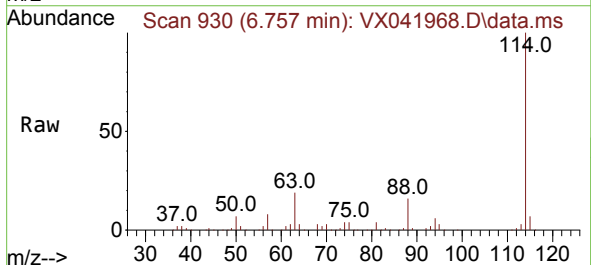
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

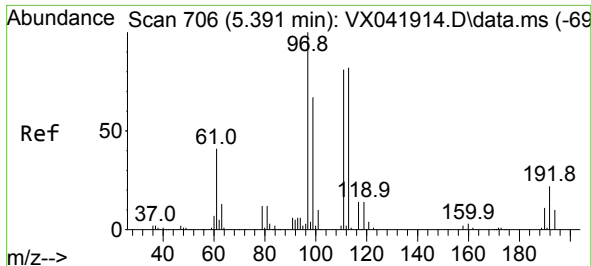
Tgt Ion: 65 Resp: 76997  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 930  
Delta R.T. -0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 114 Resp: 232586  
Ion Ratio Lower Upper  
114 100  
63 19.1 0.0 45.0  
88 15.6 0.0 36.6

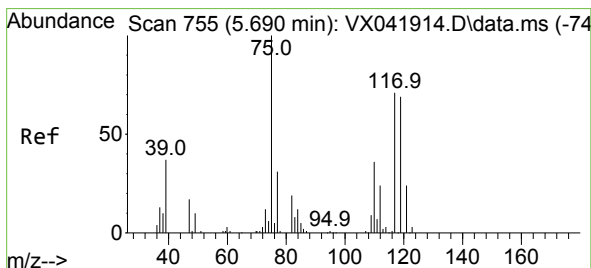
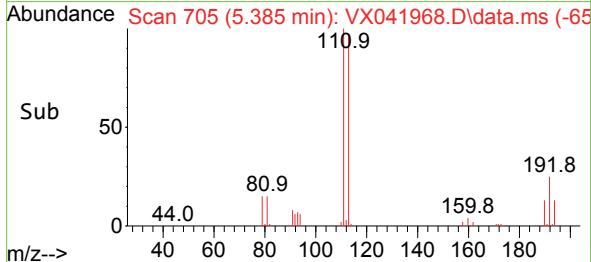
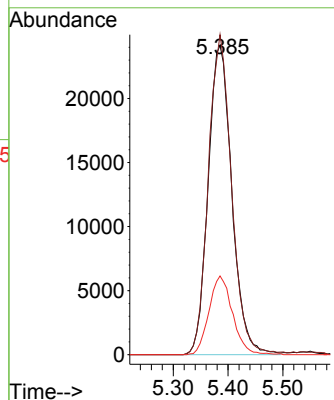
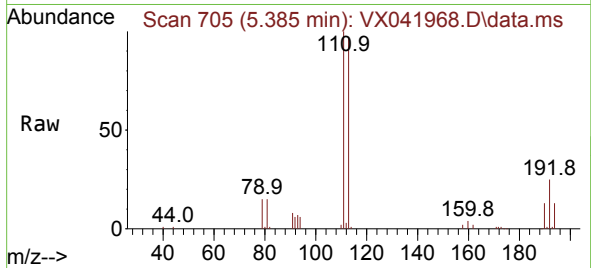




#35  
Dibromofluoromethane  
Concen: 43.907 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

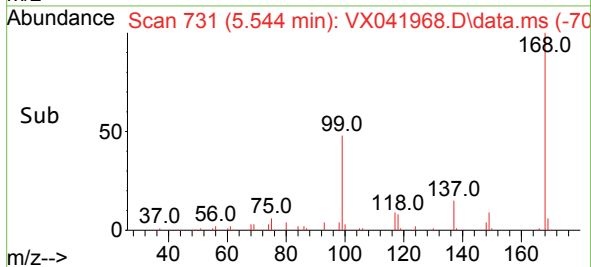
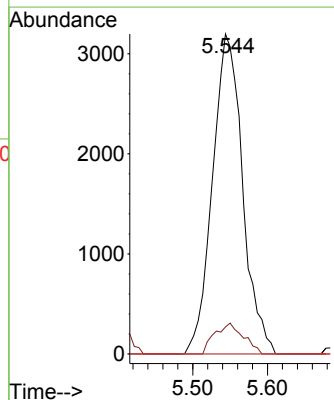
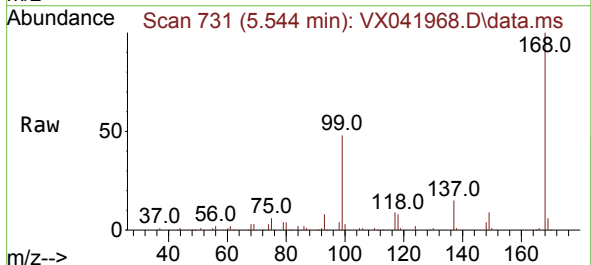
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

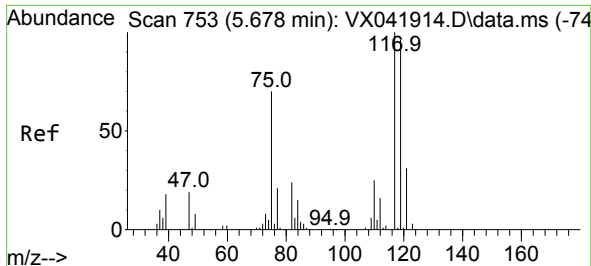
Tgt Ion:113 Resp: 72461  
Ion Ratio Lower Upper  
113 100  
111 101.4 82.9 124.3  
192 25.3 13.3 19.9#



#36  
1,1-Dichloropropene  
Concen: 5.106 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.146 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

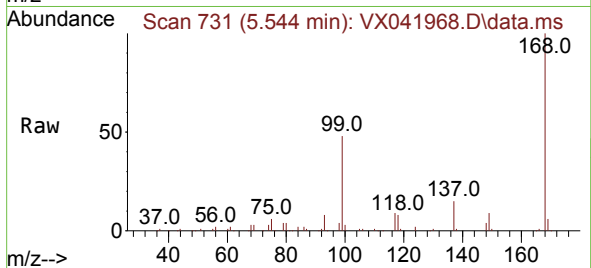
Tgt Ion: 75 Resp: 8949  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.0 50.9#  
77 0.0 24.7 37.1#



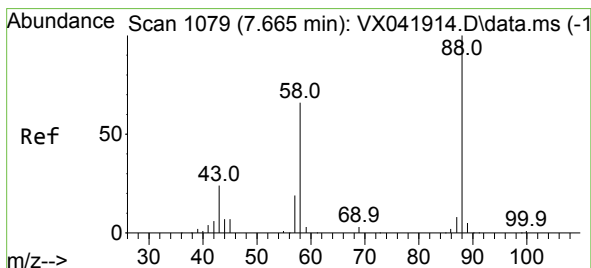
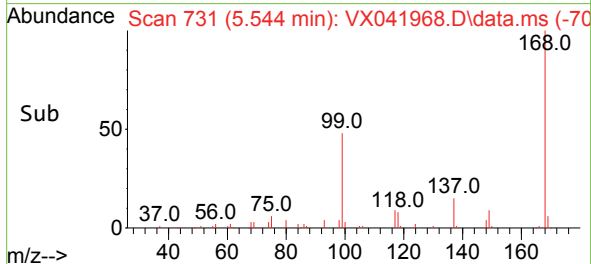
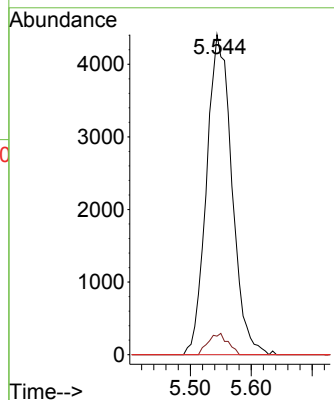


#38  
Carbon Tetrachloride  
Concen: 6.580 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

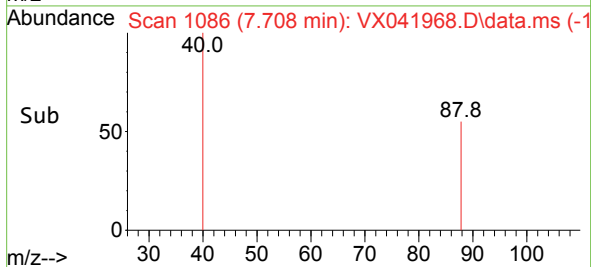
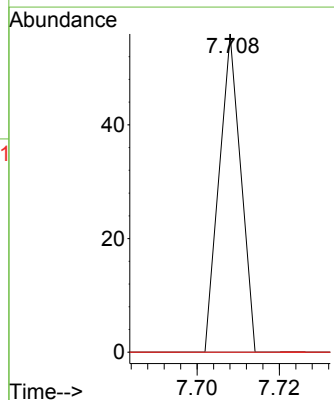
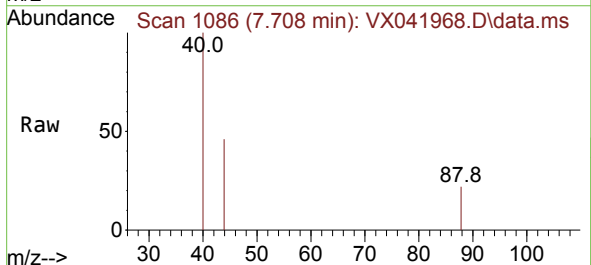


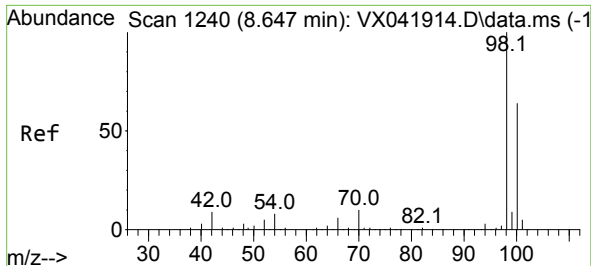
Tgt Ion:117 Resp: 12740  
Ion Ratio Lower Upper  
117 100  
119 5.8 78.2 117.2#  
121 0.0 24.4 36.6#



#49  
1,4-Dioxane  
Concen: 20.375 ug/l  
RT: 7.708 min Scan# 1086  
Delta R.T. 0.043 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 0.0 0.0 0.0  
58 0.0 60.1 90.1#

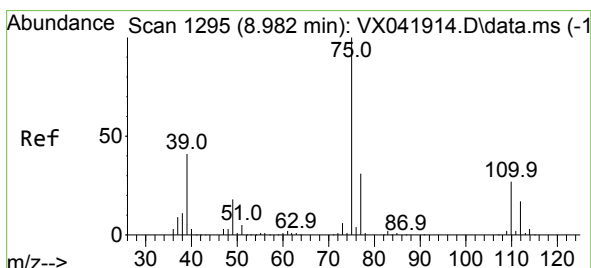
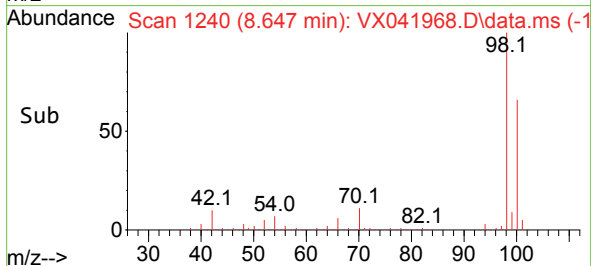
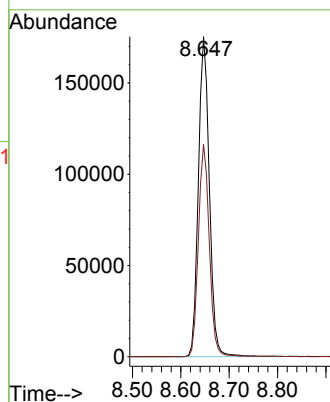
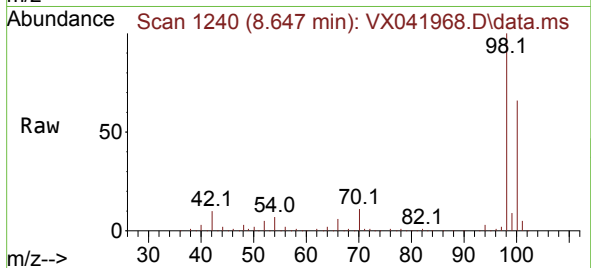




#50  
Toluene-d8  
Concen: 47.580 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

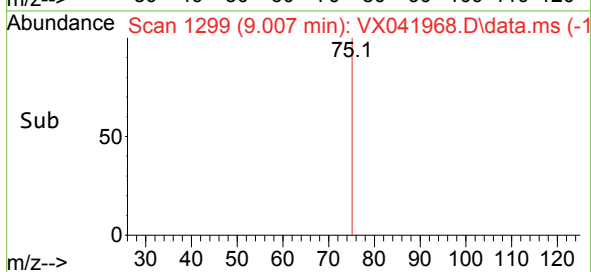
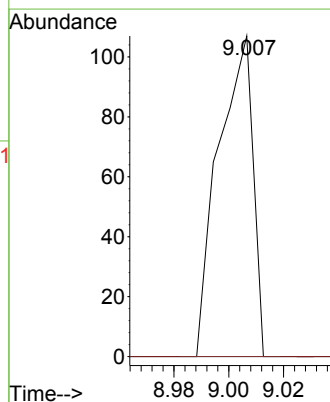
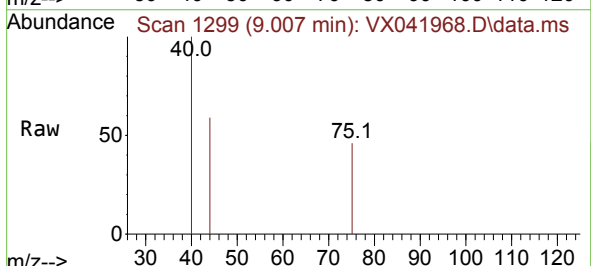
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

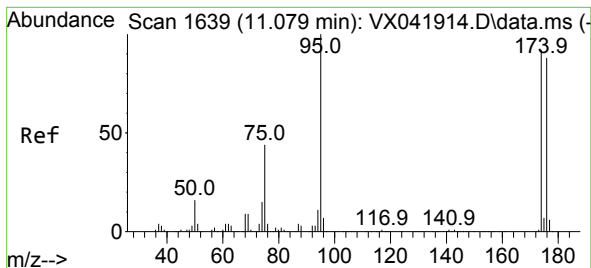
Tgt Ion: 98 Resp: 275853  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.1 79.7



#53  
t-1,3-Dichloropropene  
Concen: 0.937 ug/l  
RT: 9.007 min Scan# 1299  
Delta R.T. 0.025 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 75 Resp: 93  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

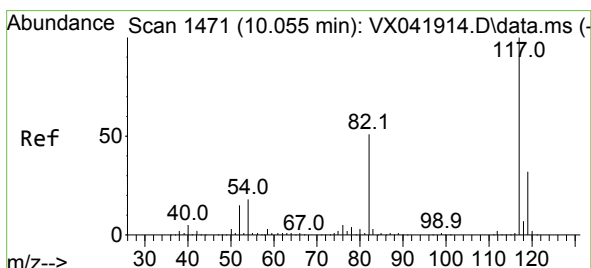
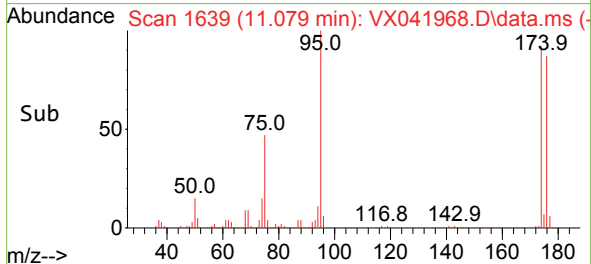
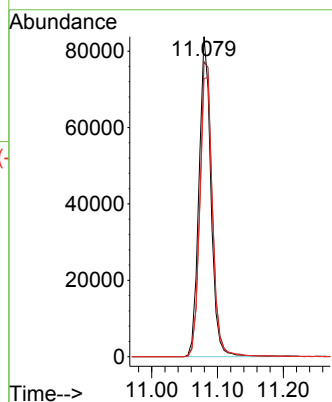
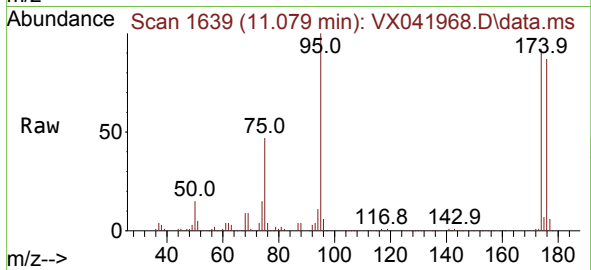




#62  
4-Bromofluorobenzene  
Concen: 49.452 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

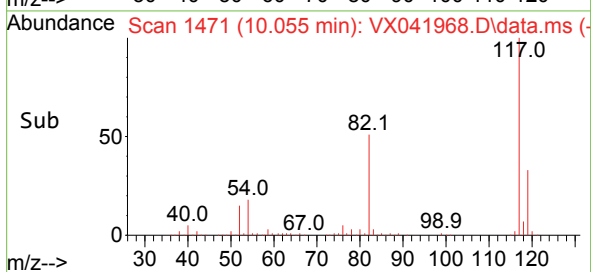
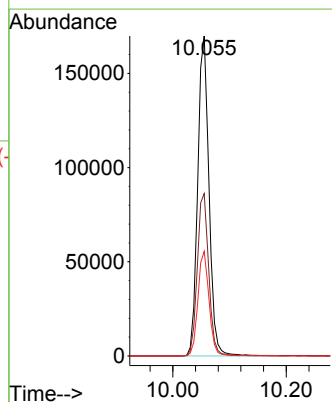
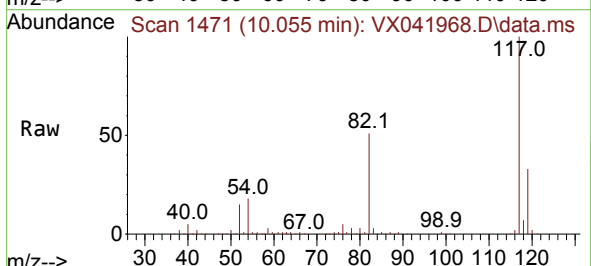
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

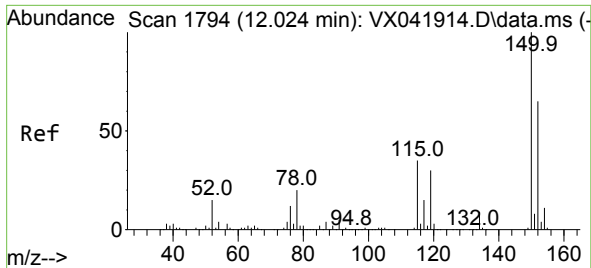
Tgt Ion: 95 Resp: 105687  
Ion Ratio Lower Upper  
95 100  
174 97.0 0.0 135.6  
176 93.6 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 117 Resp: 234125  
Ion Ratio Lower Upper  
117 100  
82 50.8 46.2 69.4  
119 32.7 25.5 38.3

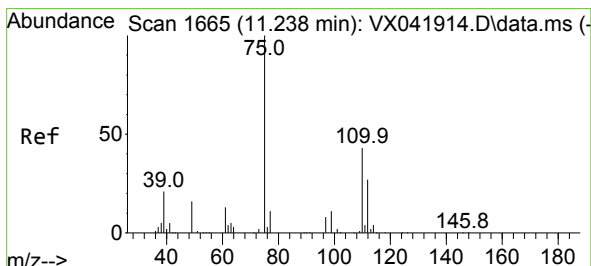
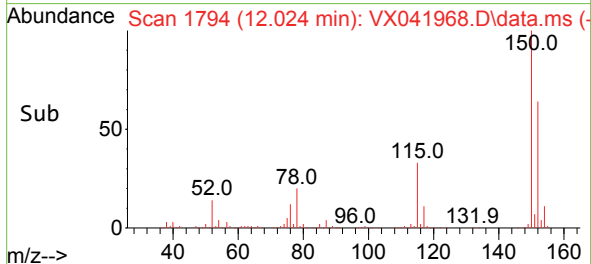
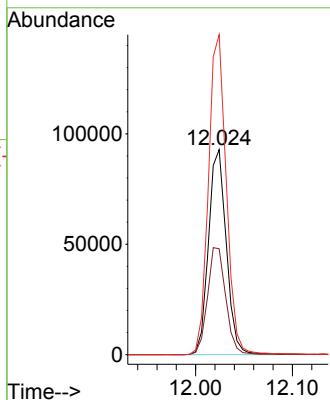
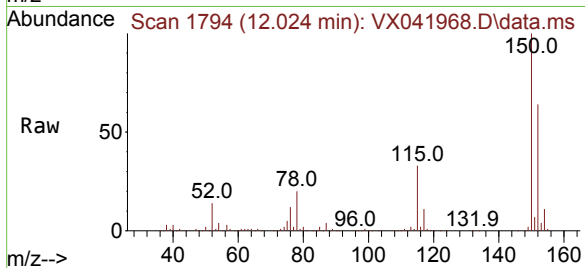




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX041968.D  
 Acq: 21 Jun 2024 10:01

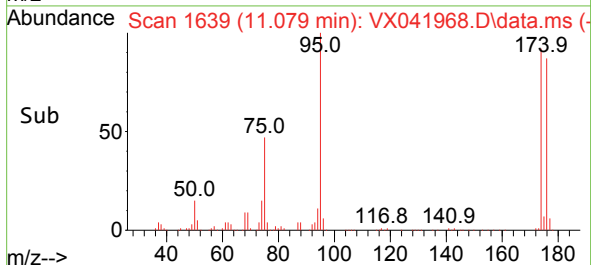
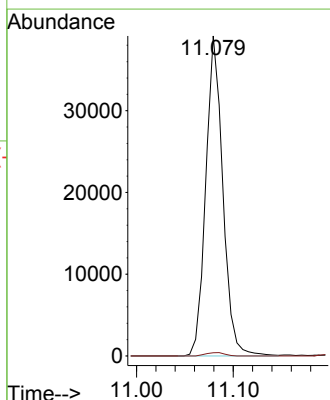
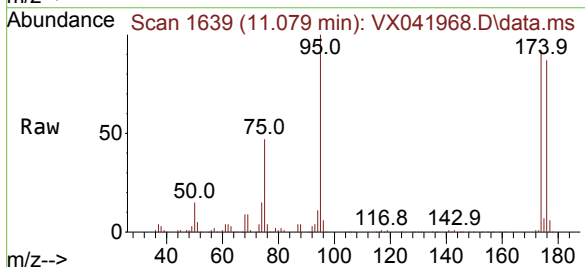
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0621MBL01

Tgt Ion:152 Resp: 119351  
 Ion Ratio Lower Upper  
 152 100  
 115 53.9 43.3 129.9  
 150 156.6 0.0 345.0

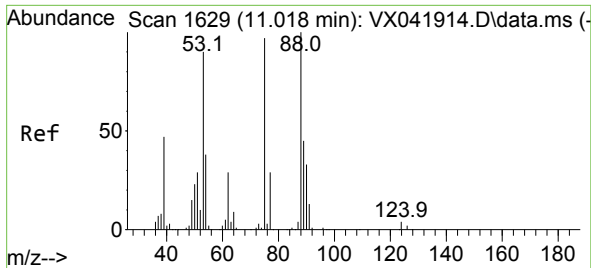


#76  
 1,2,3-Trichloropropane  
 Concen: 22.157 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX041968.D  
 Acq: 21 Jun 2024 10:01

Tgt Ion: 75 Resp: 48008  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 19.1 57.5#



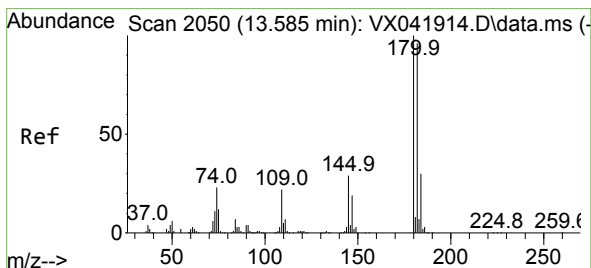
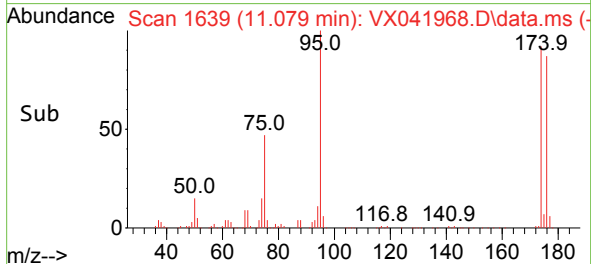
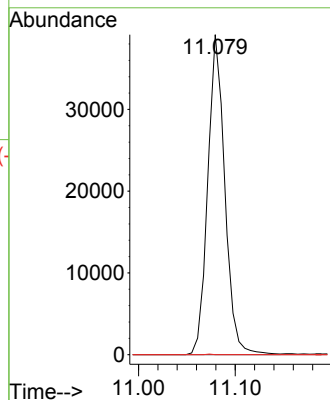
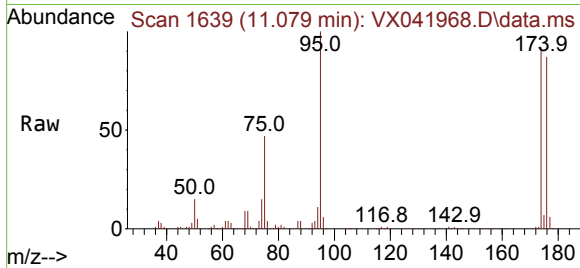




#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.924 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

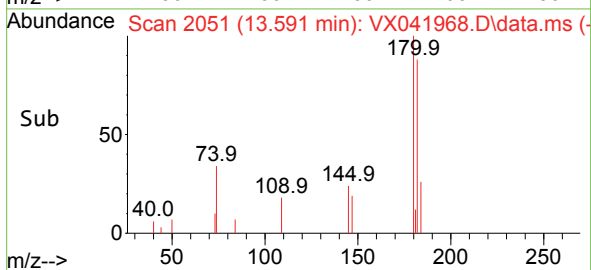
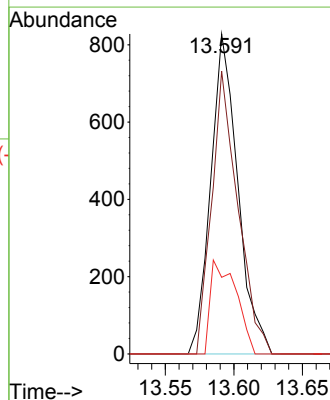
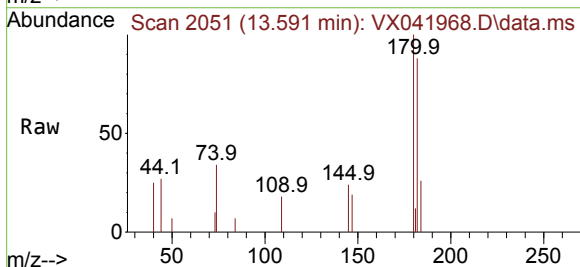
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

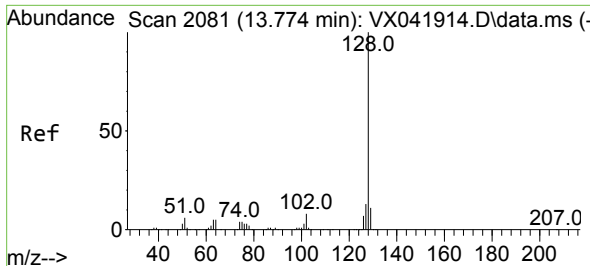
Tgt Ion: 75 Resp: 48008  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.1 36.9 55.3#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.446 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Tgt Ion: 180 Resp: 1137  
Ion Ratio Lower Upper  
180 100  
182 85.7 48.3 144.8  
145 27.7 18.0 54.0

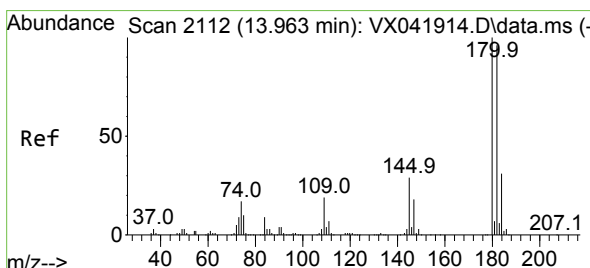
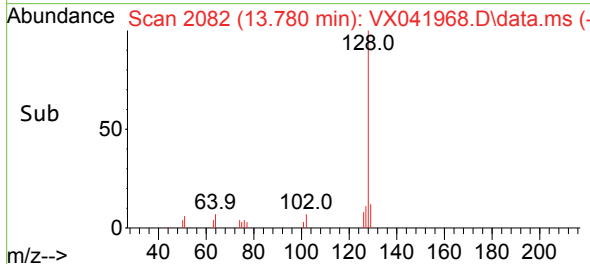
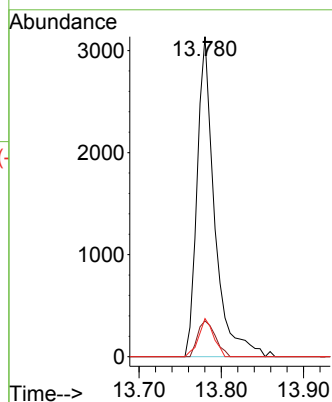
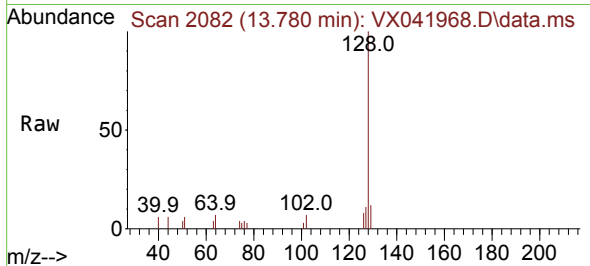




#95  
Naphthalene  
Concen: 1.282 ug/l  
RT: 13.780 min Scan# 2081  
Delta R.T. 0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0621MBL01

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 4638      |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 11.3  | 10.3 15.5 |
| 129         | 10.2  | 8.8 13.2  |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.481 ug/l  
RT: 13.969 min Scan# 2113  
Delta R.T. 0.006 min  
Lab File: VX041968.D  
Acq: 21 Jun 2024 10:01

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1291       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 80.4  | 46.9 140.6 |
| 145         | 25.6  | 17.8 53.5  |

