

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080724\  
 Data File : VX042904.D  
 Acq On : 07 Aug 2024 08:54  
 Operator : JC/MD  
 Sample : VX0807MBL02  
 Misc : 5.00g/10.0mL/100uL/5.0mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 08 01:58:30 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 07 02:55:22 2024  
 Response via : Initial Calibration

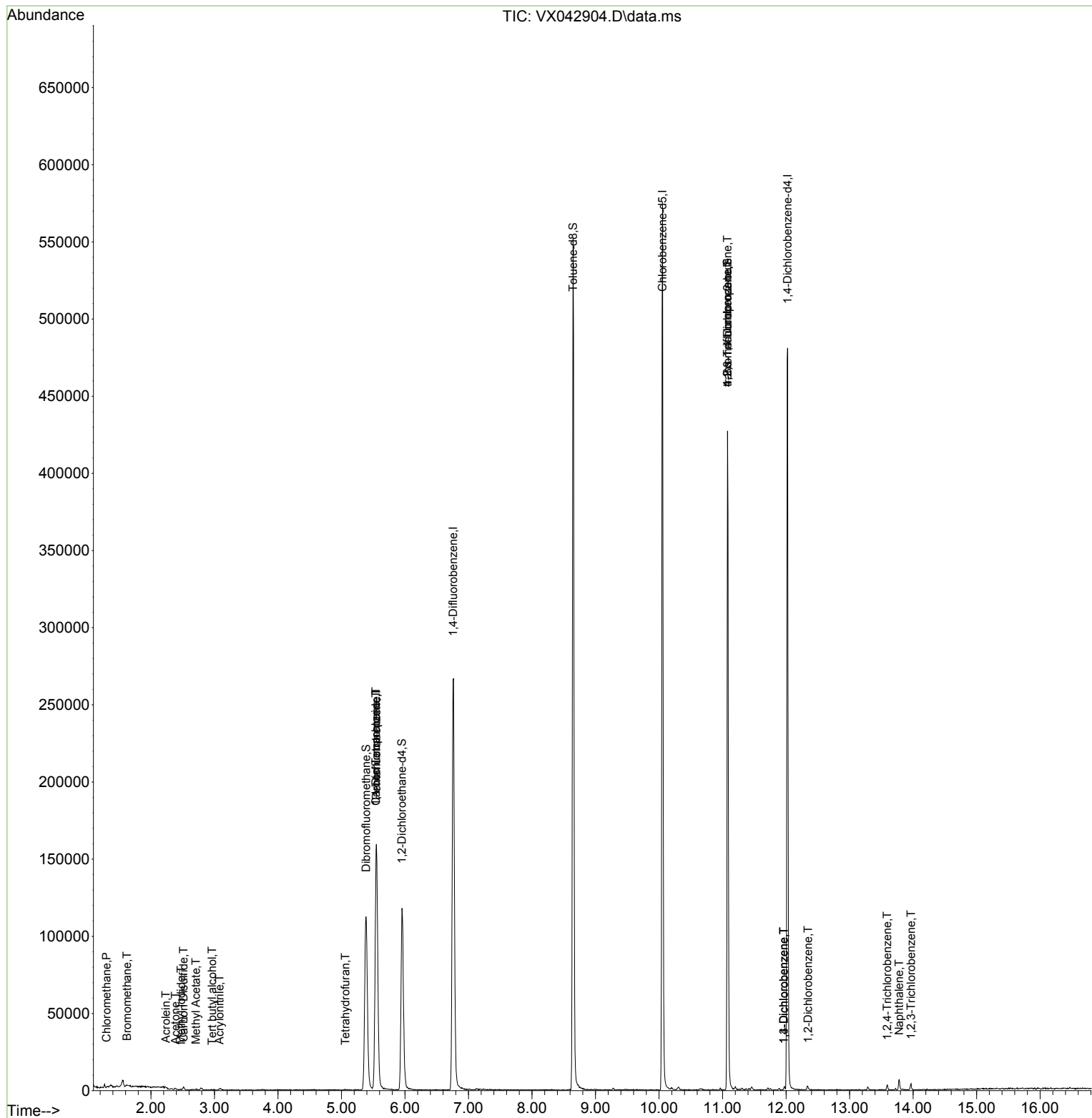
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.549          | 168  | 152508              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 282713              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 265442              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 104978              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 118397              | 56.551    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 113.100% |           |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 103487              | 55.984    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 111.960% |           |        |          |
| 50) Toluene-d8                | 8.646          | 98   | 337414              | 51.417    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 102.840% |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 118732              | 50.350    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 100.700% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 1.300          | 50   | 372                 | 0.208     | ug/l # | 83       |
| 5) Bromomethane               | 1.623          | 94   | 702                 | 0.683     | ug/l # | 76       |
| 10) Methyl Iodide             | 2.477          | 142  | 393                 | 0.229     | ug/l # | 34       |
| 11) Tert butyl alcohol        | 2.965          | 59   | 86                  | 0.207     | ug/l # | 78       |
| 13) Acrolein                  | 2.233          | 56   | 452                 | 1.101     | ug/l # | 50       |
| 15) Acrylonitrile             | 3.080          | 53   | 391                 | 0.368     | ug/l # | 42       |
| 16) Acetone                   | 2.385          | 43   | 998                 | 1.099     | ug/l # | 77       |
| 17) Carbon Disulfide          | 2.513          | 76   | 2211                | 0.541     | ug/l   | 100      |
| 18) Methyl Acetate            | 2.708          | 43   | 675                 | 0.234     | ug/l # | 53       |
| 20) Methylene Chloride        | 2.794          | 84   | 703                 | Below Cal | #      | 53       |
| 29) Tetrahydrofuran           | 5.062          | 42   | 260                 | 0.270     | ug/l # | 44       |
| 36) 1,1-Dichloropropene       | 5.543          | 75   | 11974               | 4.778     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.543          | 117  | 16173               | 5.717     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 59798               | 25.328    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 59798               | 82.355    | ug/l # | 5        |
| 87) 1,3-Dichlorobenzene       | 11.963         | 146  | 974                 | 0.279     | ug/l   | 91       |
| 88) 1,4-Dichlorobenzene       | 11.963         | 146  | 974                 | 0.272     | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 12.347         | 146  | 724                 | 0.207     | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 1049                | 0.492     | ug/l   | 94       |
| 95) Naphthalene               | 13.780         | 128  | 5532                | 0.749     | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene    | 13.969         | 180  | 1453                | 0.676     | ug/l   | 87       |
| -----                         |                |      |                     |           |        |          |

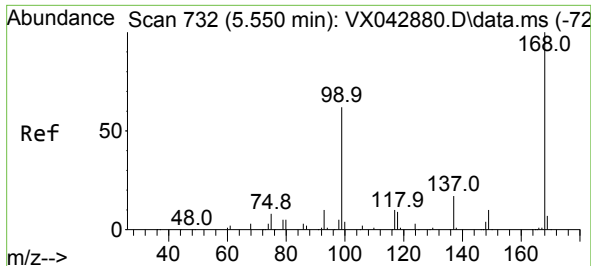
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Aug 08 01:58:30 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X080724W.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 07 02:55:22 2024  
Response via : Initial Calibration

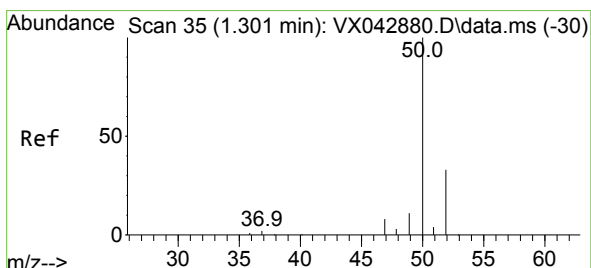
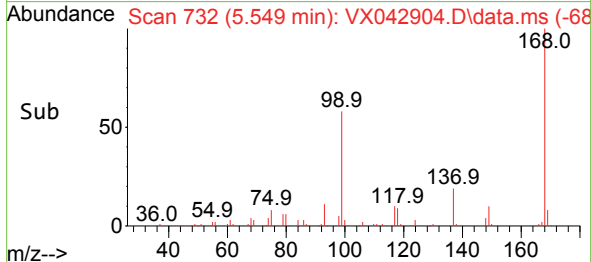
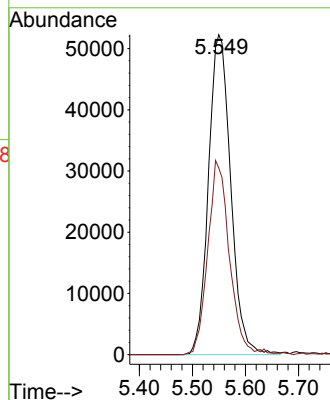
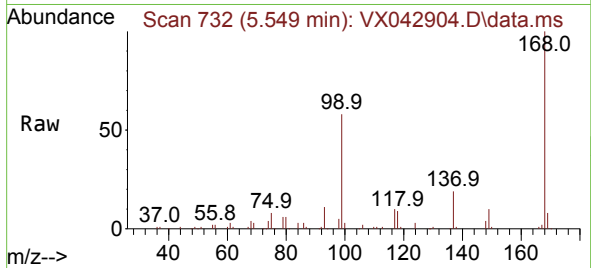




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.001 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

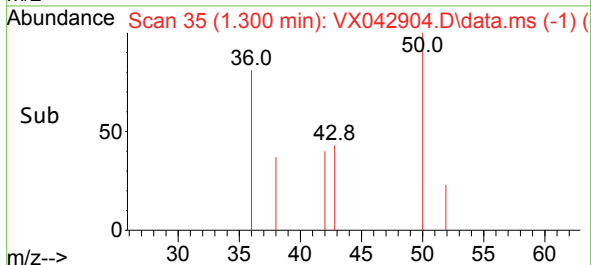
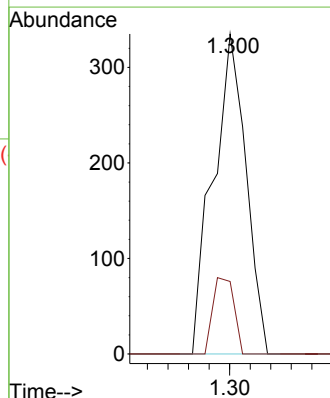
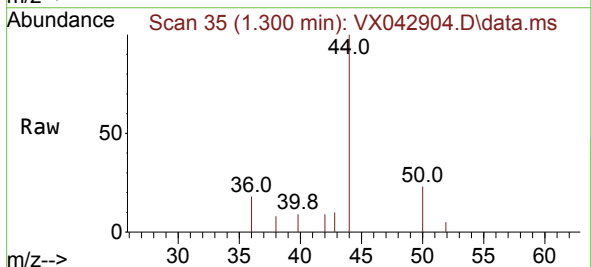
Instrument :  
MSVOA\_X  
ClientSampleId :

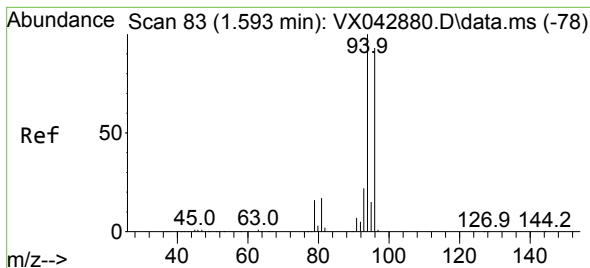
Tgt Ion:168 Resp: 152508  
Ion Ratio Lower Upper  
168 100  
99 58.3 56.6 85.0



#3  
Chloromethane  
Concen: 0.208 ug/l  
RT: 1.300 min Scan# 35  
Delta R.T. -0.000 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Tgt Ion: 50 Resp: 372  
Ion Ratio Lower Upper  
50 100  
52 22.7 25.5 38.3#





#5

Bromomethane

Concen: 0.683 ug/l

RT: 1.623 min Scan# 81

Delta R.T. 0.030 min

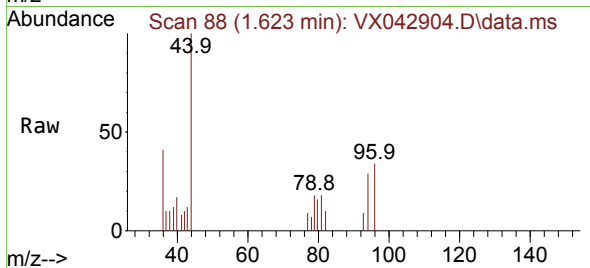
Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

Instrument :

MSVOA\_X

ClientSampleId :

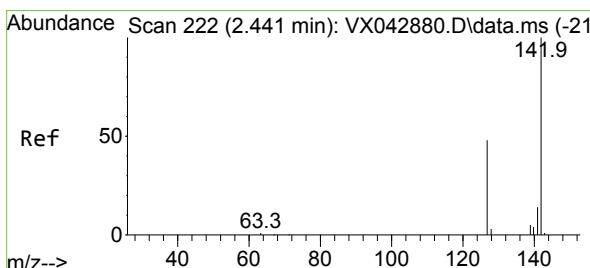
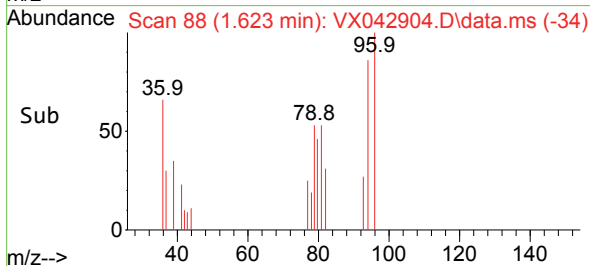
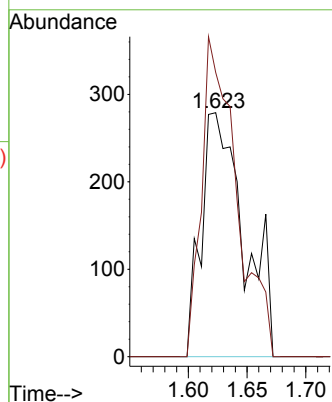


Tgt Ion: 94 Resp: 702

Ion Ratio Lower Upper

94 100

96 116.5 74.6 111.8#



#10

Methyl Iodide

Concen: 0.229 ug/l

RT: 2.477 min Scan# 228

Delta R.T. 0.036 min

Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

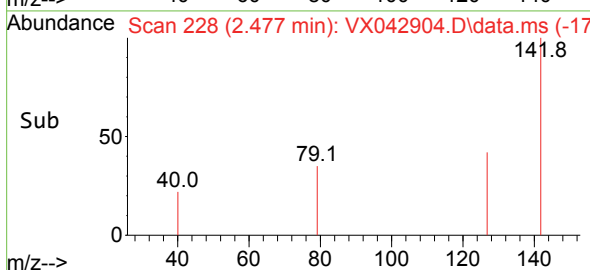
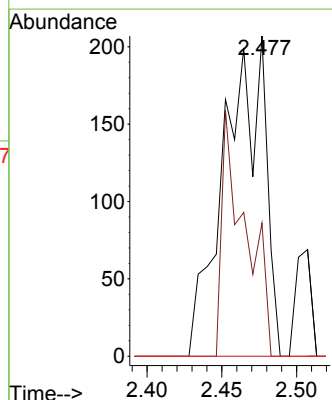
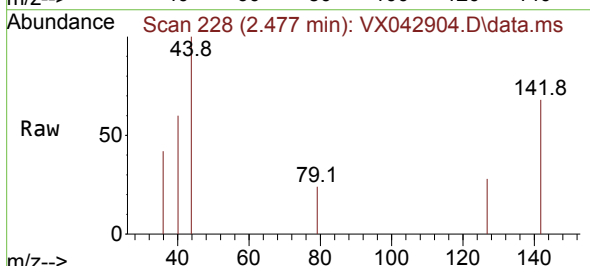
Tgt Ion: 142 Resp: 393

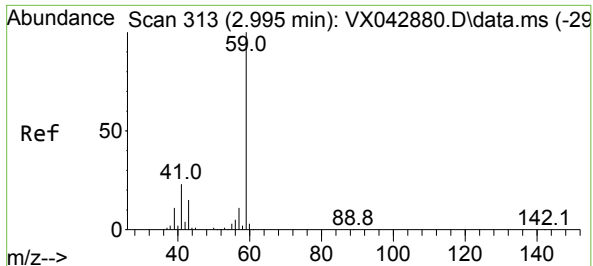
Ion Ratio Lower Upper

142 100

127 0.0 41.6 62.4#

141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 0.207 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.031 min

Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

Instrument :

MSVOA\_X

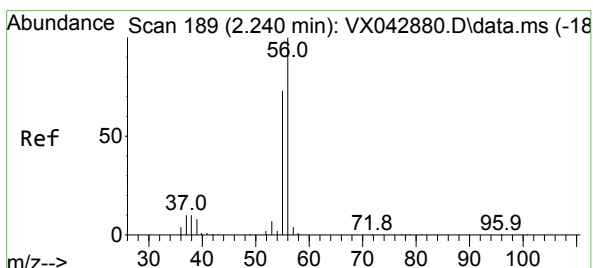
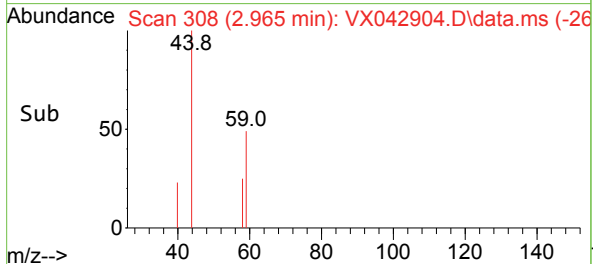
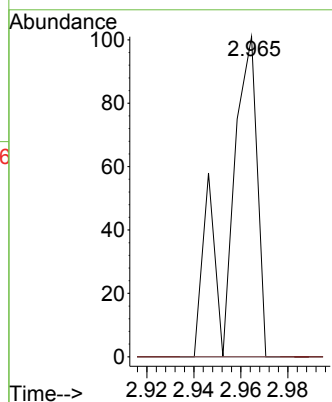
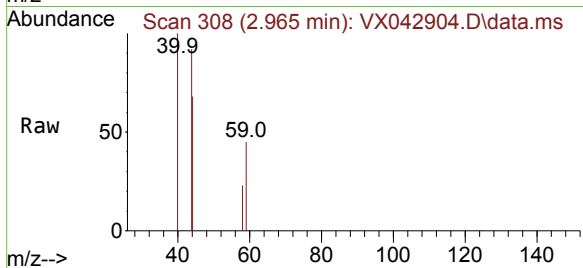
ClientSampleId :

Tgt Ion: 59 Resp: 86

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 1.101 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.007 min

Lab File: VX042904.D

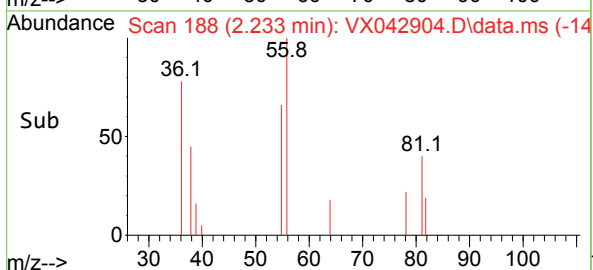
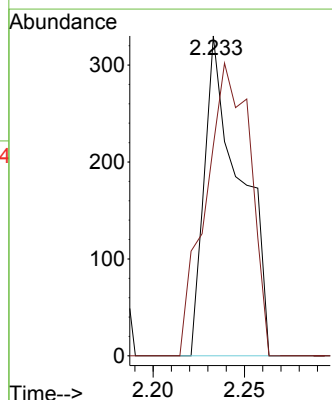
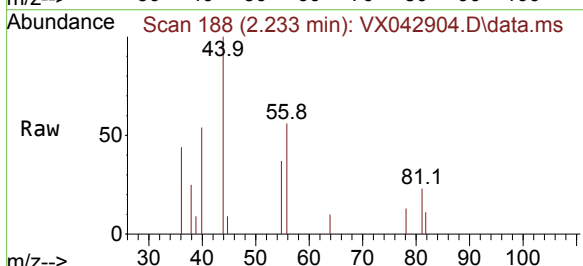
Acq: 07 Aug 2024 08:54

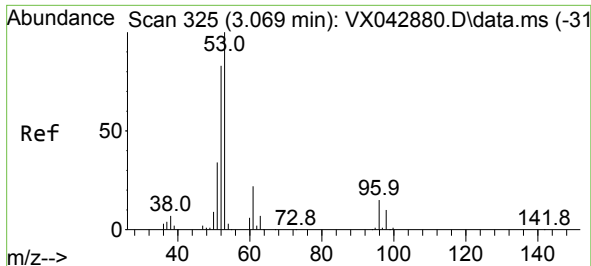
Tgt Ion: 56 Resp: 452

Ion Ratio Lower Upper

56 100

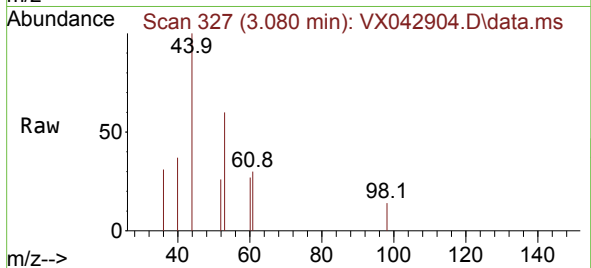
55 113.1 57.1 85.7#



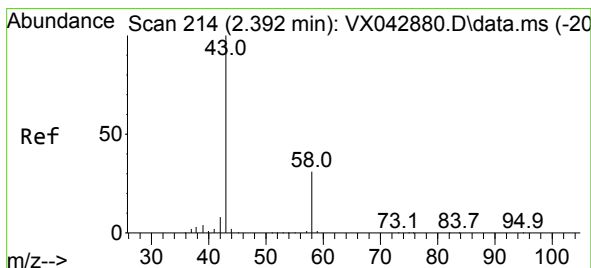
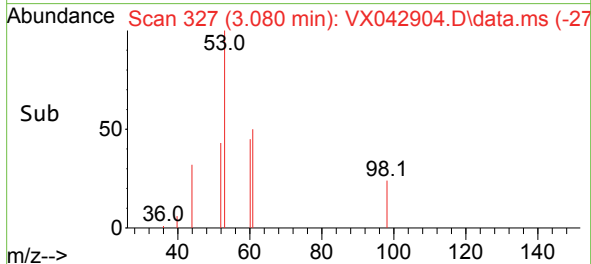
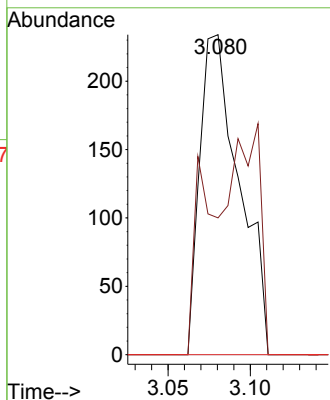


#15  
Acrylonitrile  
Concen: 0.368 ug/l  
RT: 3.080 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Instrument :  
MSVOA\_X  
ClientSampleId :

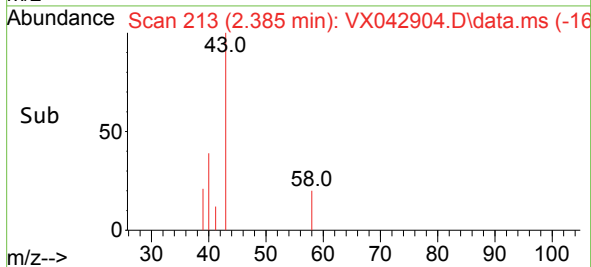
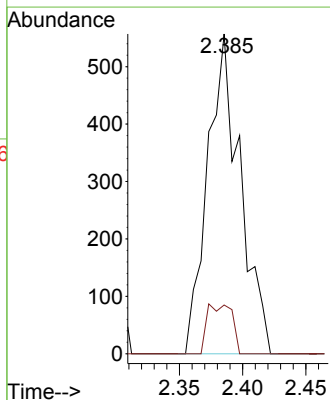
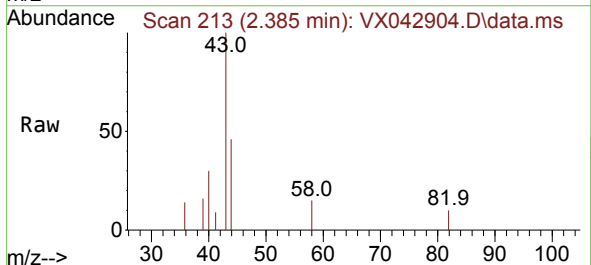


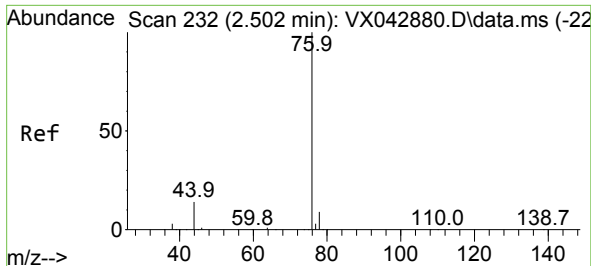
Tgt Ion: 53 Resp: 391  
Ion Ratio Lower Upper  
53 100  
52 32.5 66.0 99.0#  
51 0.0 29.8 44.6#



#16  
Acetone  
Concen: 1.099 ug/l  
RT: 2.385 min Scan# 213  
Delta R.T. -0.007 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Tgt Ion: 43 Resp: 998  
Ion Ratio Lower Upper  
43 100  
58 15.3 21.9 32.9#





#17

Carbon Disulfide

Concen: 0.541 ug/l

RT: 2.513 min Scan# 21

Delta R.T. 0.012 min

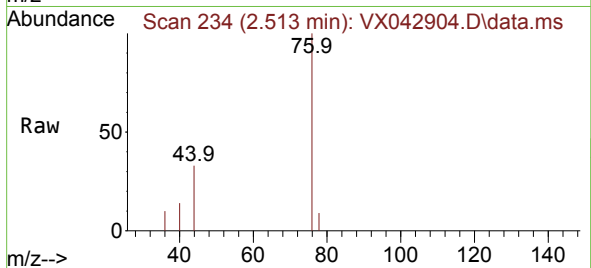
Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

Instrument :

MSVOA\_X

ClientSampleId :

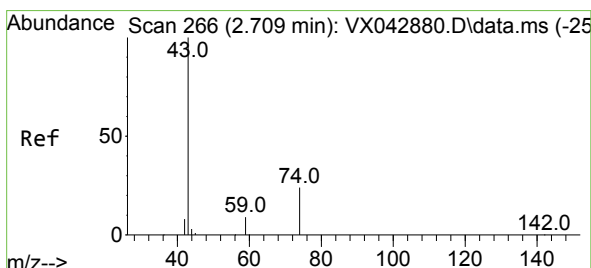
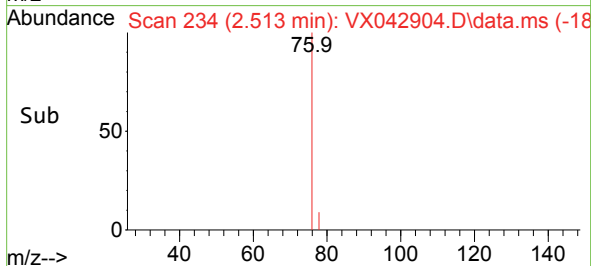
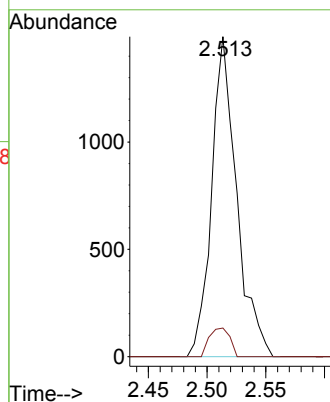


Tgt Ion: 76 Resp: 2211

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.6



#18

Methyl Acetate

Concen: 0.234 ug/l

RT: 2.708 min Scan# 266

Delta R.T. -0.000 min

Lab File: VX042904.D

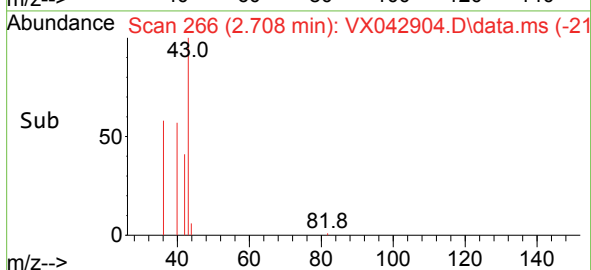
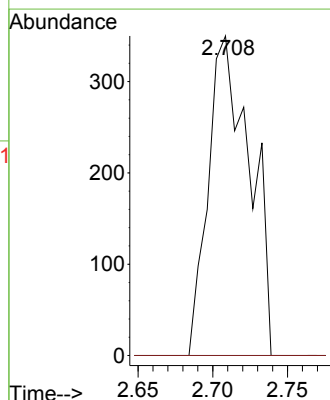
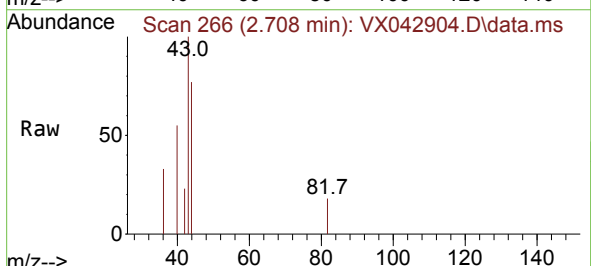
Acq: 07 Aug 2024 08:54

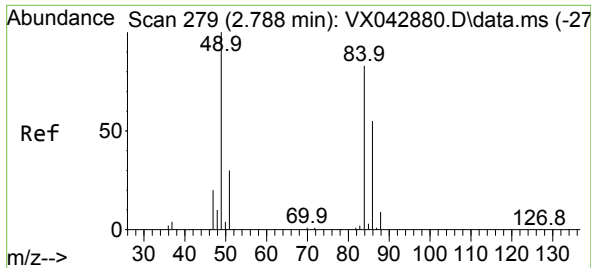
Tgt Ion: 43 Resp: 675

Ion Ratio Lower Upper

43 100

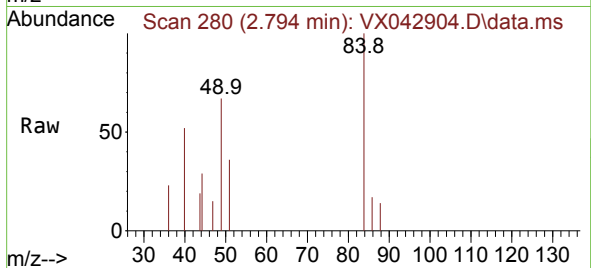
74 0.0 17.8 26.8#



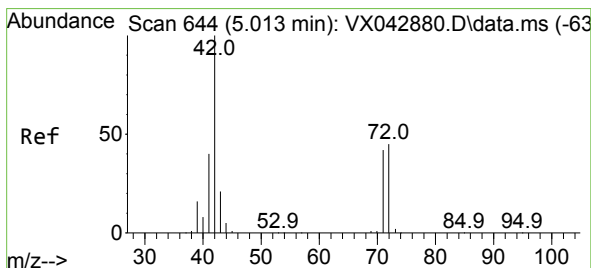
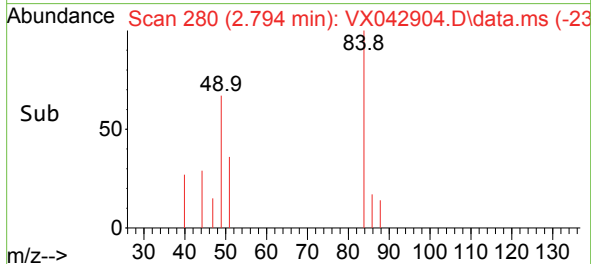
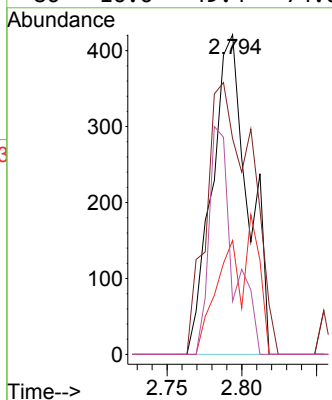


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Instrument :  
MSVOA\_X  
ClientSampleId :

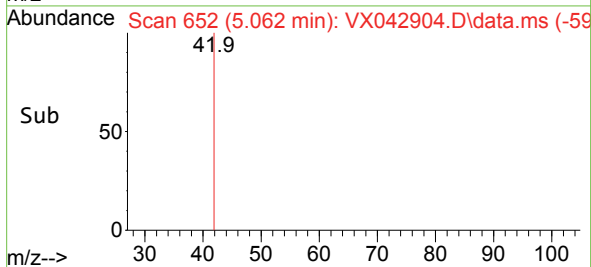
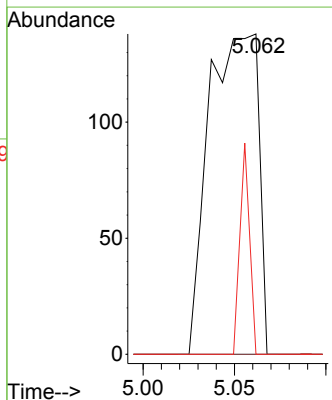
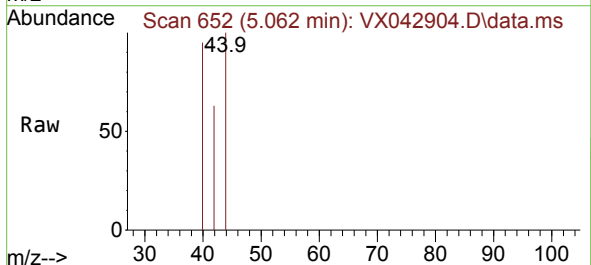


Tgt Ion: 84 Resp: 703  
Ion Ratio Lower Upper  
84 100  
49 67.5 103.6 155.4#  
51 35.6 33.8 50.6  
86 16.6 49.4 74.0#

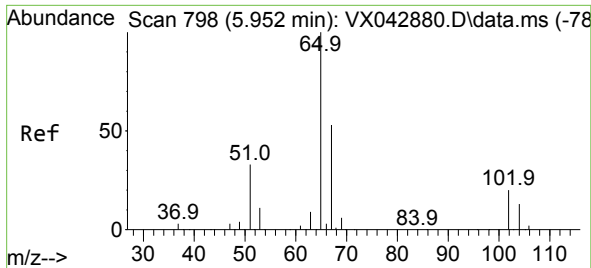


#29  
Tetrahydrofuran  
Concen: 0.270 ug/l  
RT: 5.062 min Scan# 652  
Delta R.T. 0.048 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Tgt Ion: 42 Resp: 260  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 12.7 32.2 48.2#







#33

1,2-Dichloroethane-d4

Concen: 56.551 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

Instrument :

MSVOA\_X

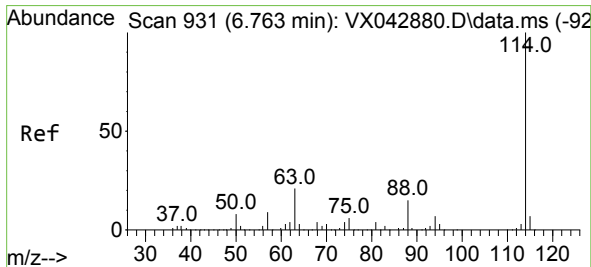
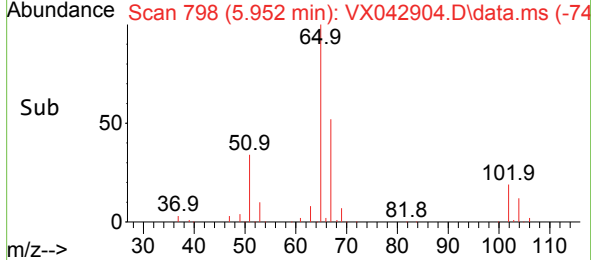
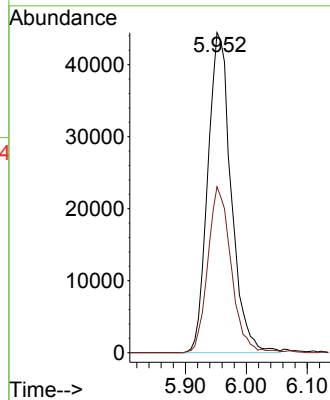
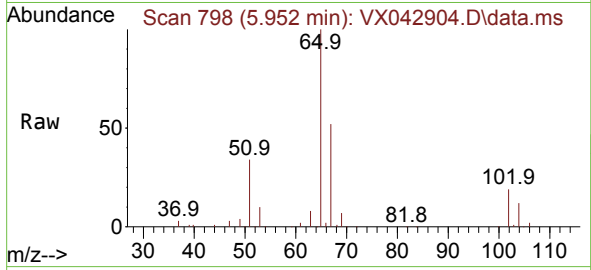
ClientSampleId :

Tgt Ion: 65 Resp: 118397

Ion Ratio Lower Upper

65 100

67 51.7 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.007 min

Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

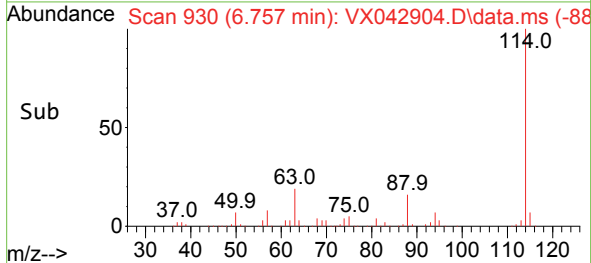
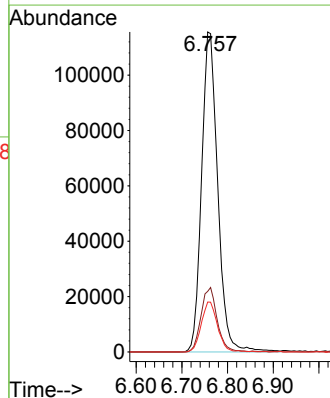
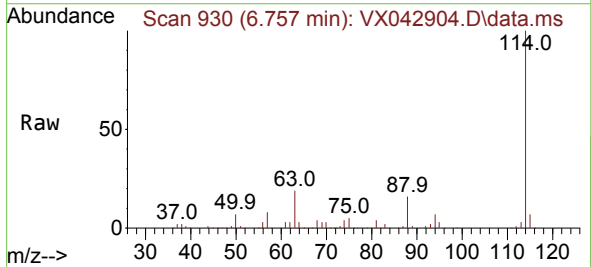
Tgt Ion:114 Resp: 282713

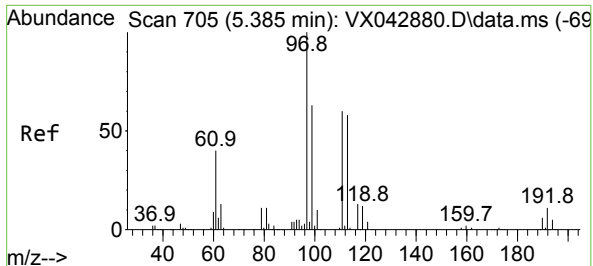
Ion Ratio Lower Upper

114 100

63 18.9 0.0 45.0

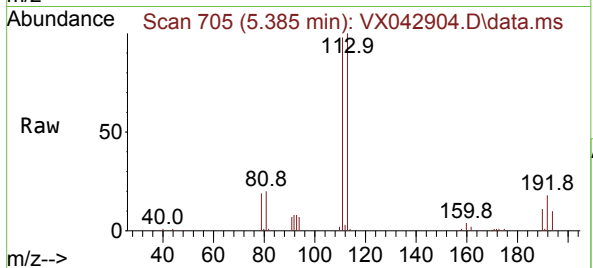
88 15.6 0.0 36.6



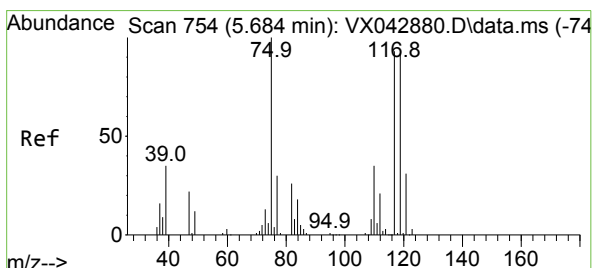
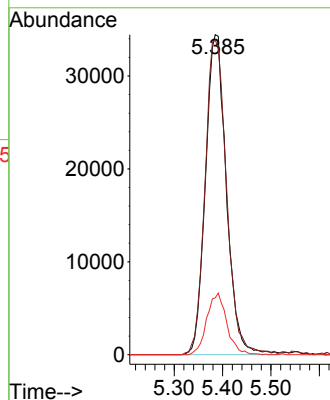
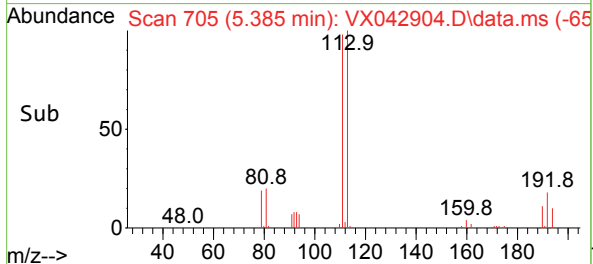


#35  
Dibromofluoromethane  
Concen: 55.984 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

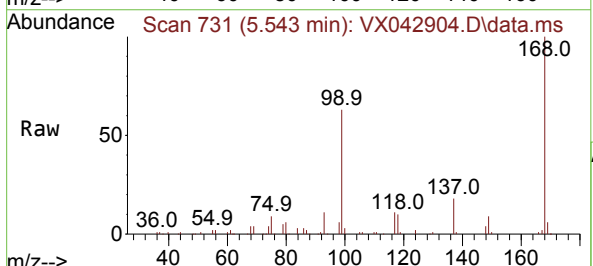
Instrument :  
MSVOA\_X  
ClientSampleId :



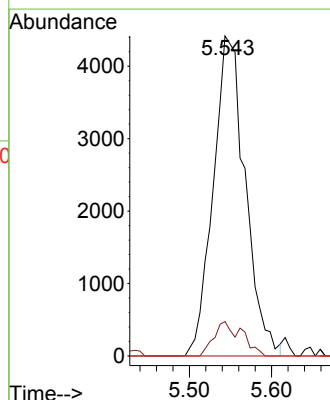
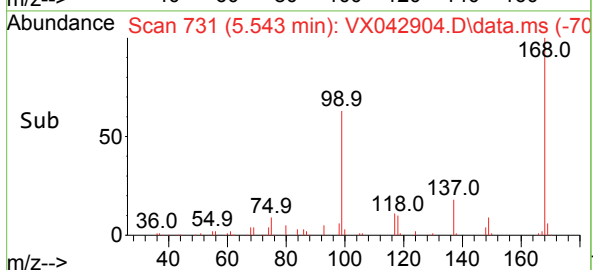
Tgt Ion:113 Resp: 103487  
Ion Ratio Lower Upper  
113 100  
111 101.5 82.9 124.3  
192 18.4 13.3 19.9

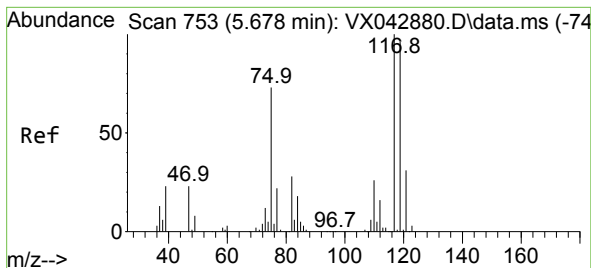


#36  
1,1-Dichloropropene  
Concen: 4.778 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.141 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54



Tgt Ion: 75 Resp: 11974  
Ion Ratio Lower Upper  
75 100  
110 9.4 17.0 50.9#  
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.717 ug/l

RT: 5.543 min Scan# 71

Delta R.T. -0.135 min

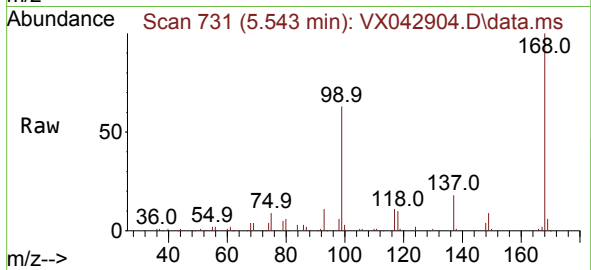
Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

Instrument :

MSVOA\_X

ClientSampleId :



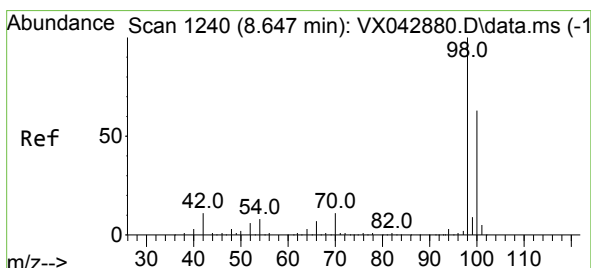
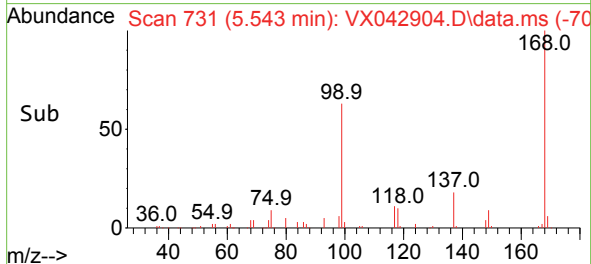
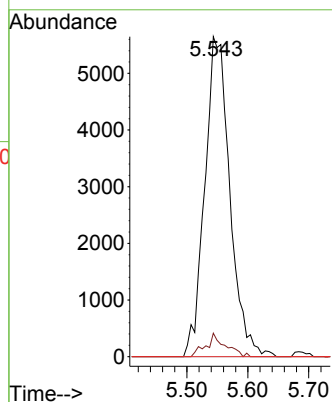
Tgt Ion:117 Resp: 16173

Ion Ratio Lower Upper

117 100

119 7.4 78.2 117.2#

121 0.0 24.4 36.6#



#50

Toluene-d8

Concen: 51.417 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX042904.D

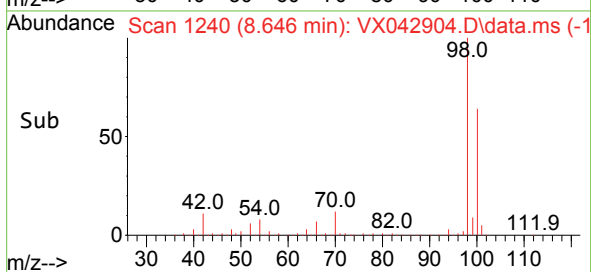
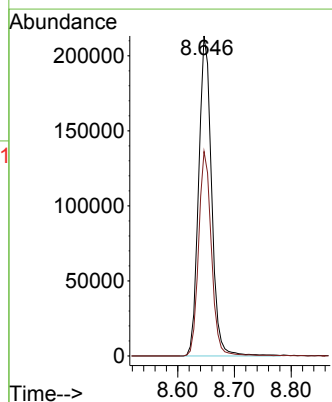
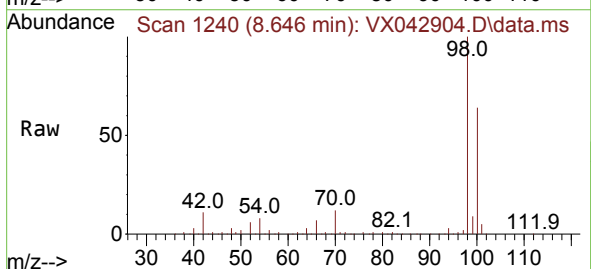
Acq: 07 Aug 2024 08:54

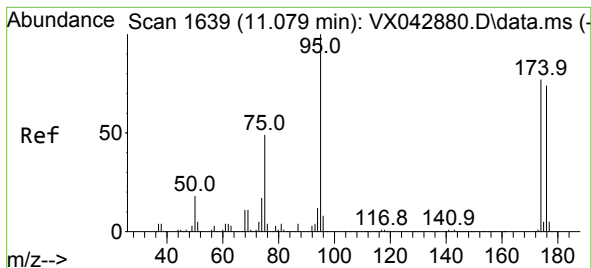
Tgt Ion: 98 Resp: 337414

Ion Ratio Lower Upper

98 100

100 63.3 53.1 79.7

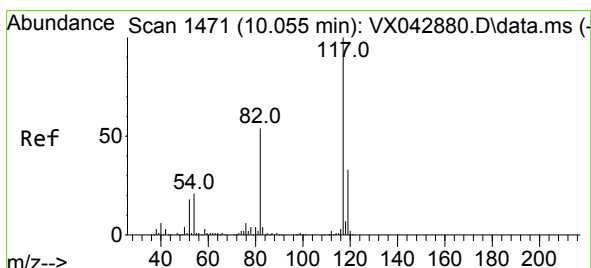
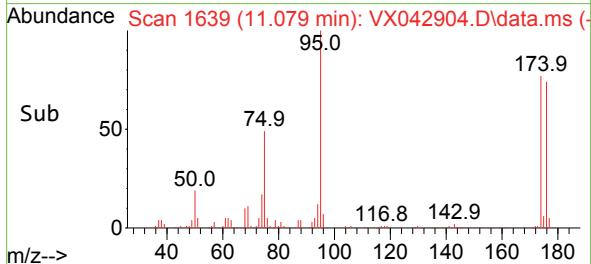
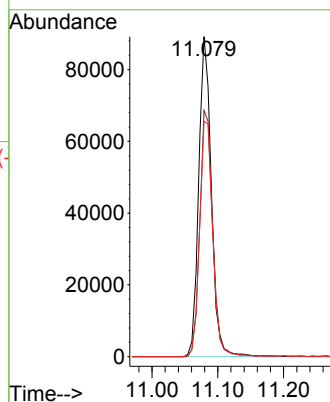
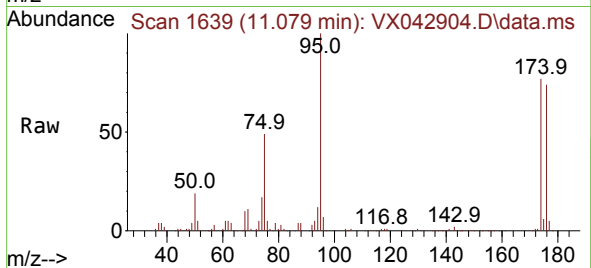




#62  
4-Bromofluorobenzene  
Concen: 50.350 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

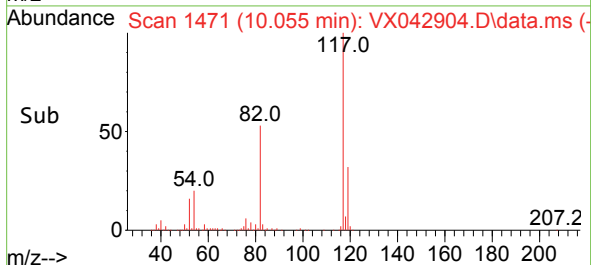
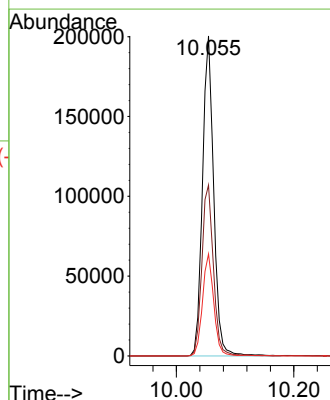
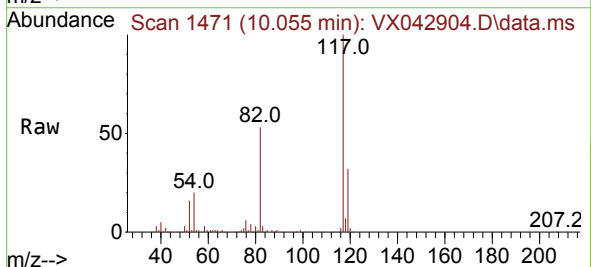
Instrument :  
MSVOA\_X  
ClientSampleId :

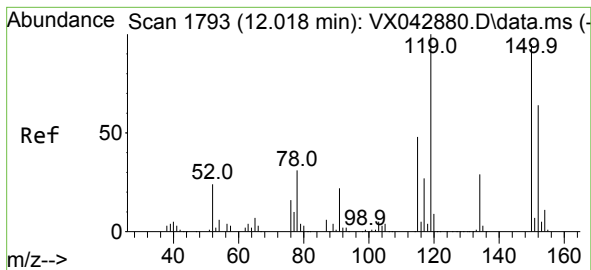
Tgt Ion: 95 Resp: 118732  
Ion Ratio Lower Upper  
95 100  
174 79.0 0.0 135.6  
176 76.8 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Tgt Ion: 117 Resp: 265442  
Ion Ratio Lower Upper  
117 100  
82 53.4 46.2 69.4  
119 31.9 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

Instrument :

MSVOA\_X

ClientSampleId :

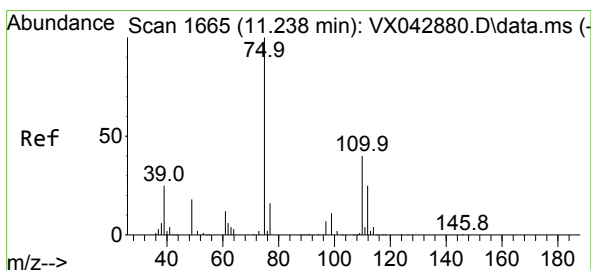
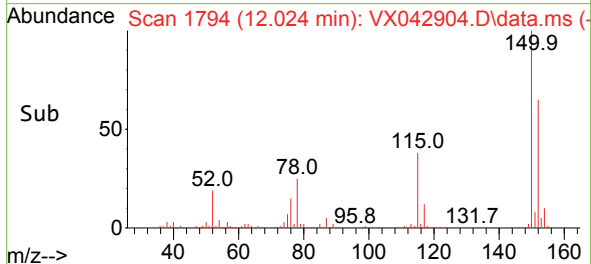
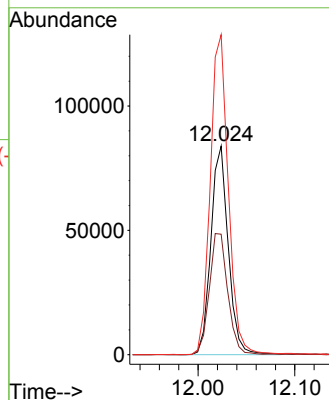
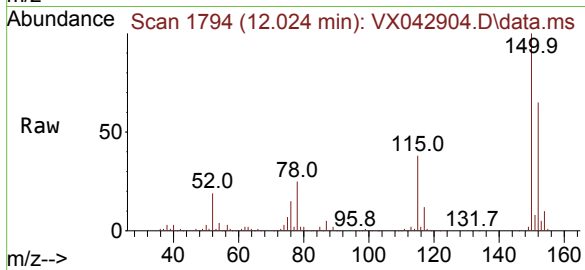
Tgt Ion:152 Resp: 104978

Ion Ratio Lower Upper

152 100

115 62.2 43.3 129.9

150 160.2 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 25.328 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX042904.D

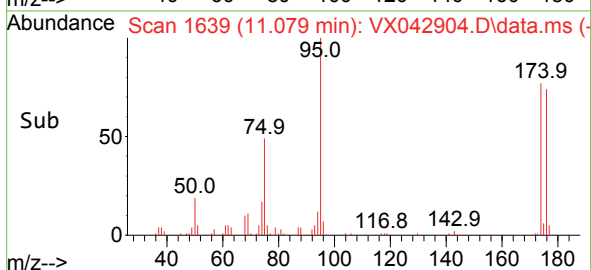
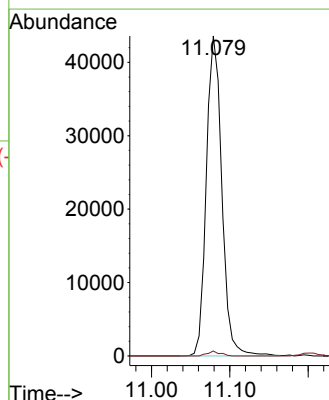
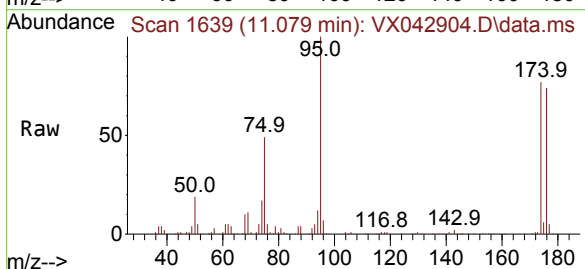
Acq: 07 Aug 2024 08:54

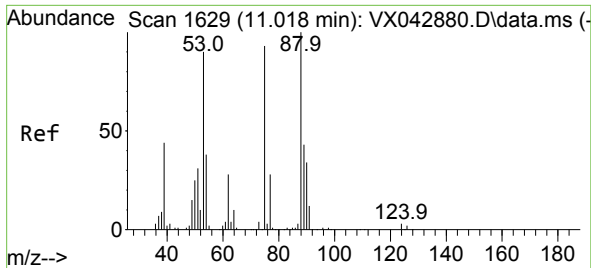
Tgt Ion: 75 Resp: 59798

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#

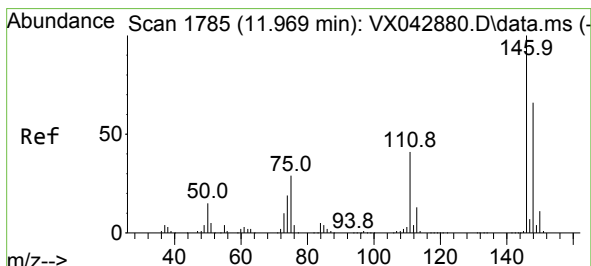
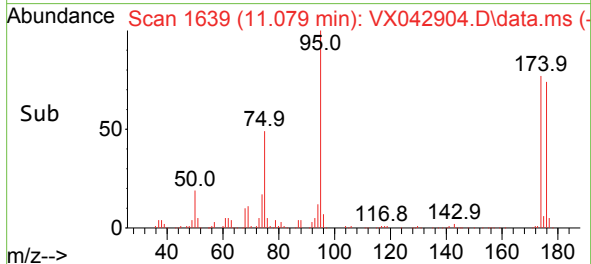
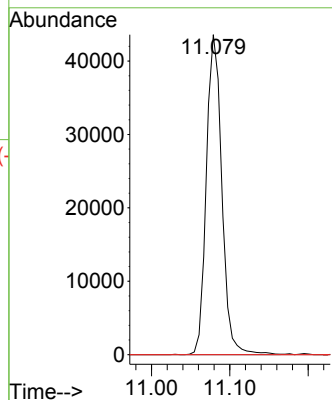
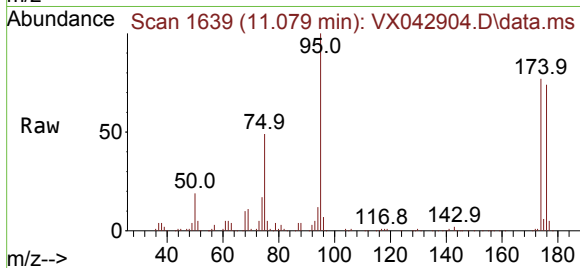




#81  
trans-1,4-Dichloro-2-butene  
Concen: 82.355 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

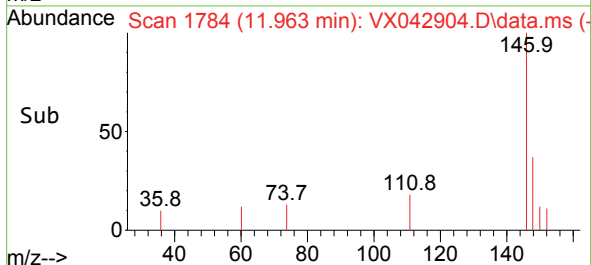
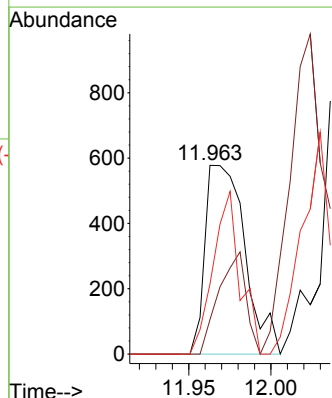
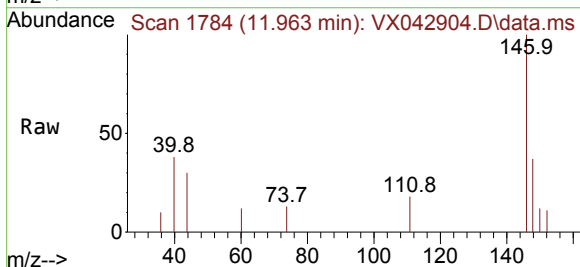
Instrument :  
MSVOA\_X  
ClientSampleId :

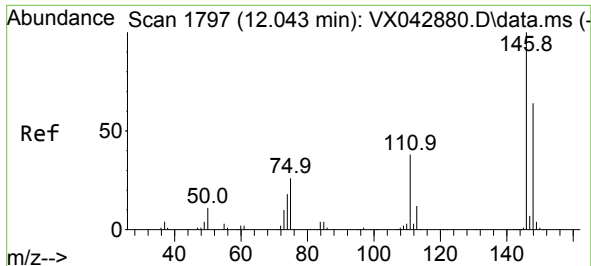
Tgt Ion: 75 Resp: 59798  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#87  
1,3-Dichlorobenzene  
Concen: 0.279 ug/l  
RT: 11.963 min Scan# 1784  
Delta R.T. -0.007 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

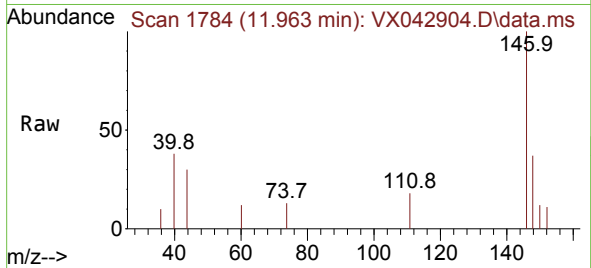
Tgt Ion:146 Resp: 974  
Ion Ratio Lower Upper  
146 100  
111 36.9 22.1 66.1  
148 58.2 31.8 95.3



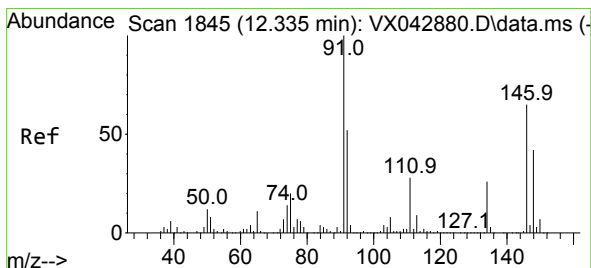
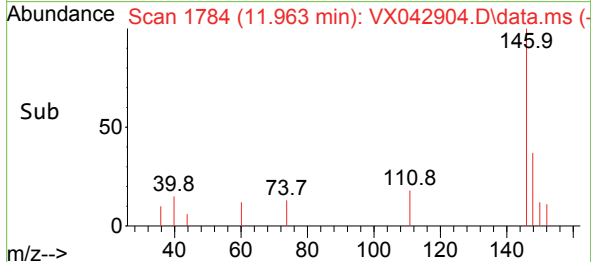
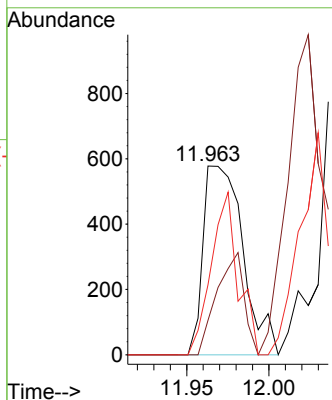


#88  
1,4-Dichlorobenzene  
Concen: 0.272 ug/l  
RT: 11.963 min Scan# 11  
Delta R.T. -0.080 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Instrument :  
MSVOA\_X  
ClientSampleId :

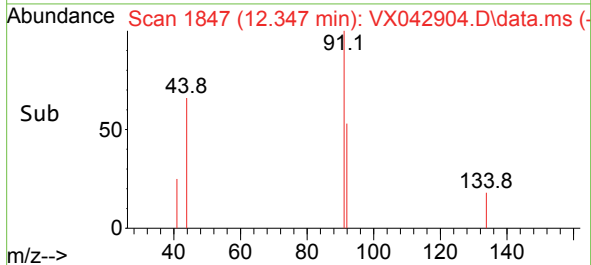
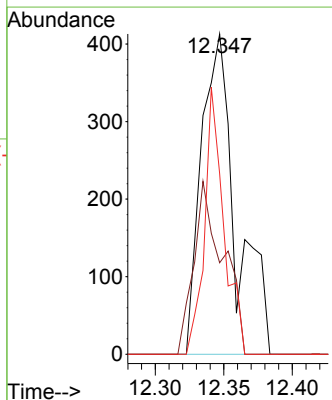
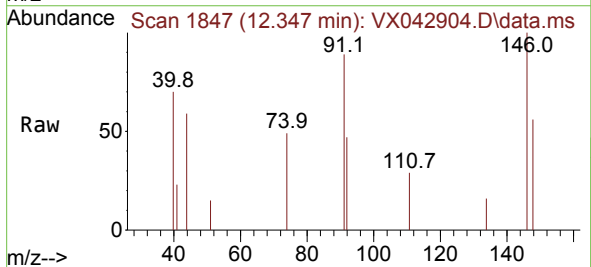


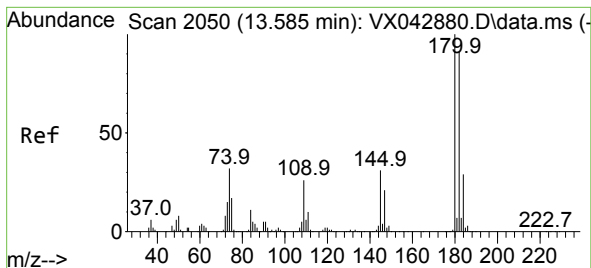
Tgt Ion:146 Resp: 974  
Ion Ratio Lower Upper  
146 100  
111 36.9 21.3 63.7  
148 58.2 31.8 95.4



#91  
1,2-Dichlorobenzene  
Concen: 0.207 ug/l  
RT: 12.347 min Scan# 1847  
Delta R.T. 0.012 min  
Lab File: VX042904.D  
Acq: 07 Aug 2024 08:54

Tgt Ion:146 Resp: 724  
Ion Ratio Lower Upper  
146 100  
111 46.0 22.4 67.0  
148 46.3 31.6 95.0





#93

1,2,4-Trichlorobenzene

Concen: 0.492 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

Instrument :

MSVOA\_X

ClientSampleId :

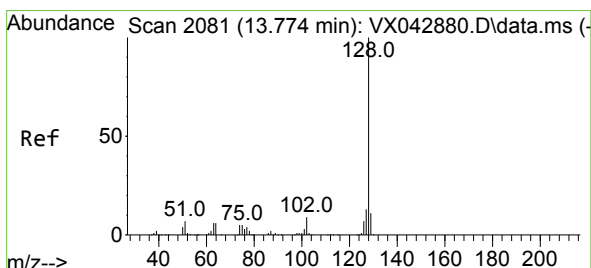
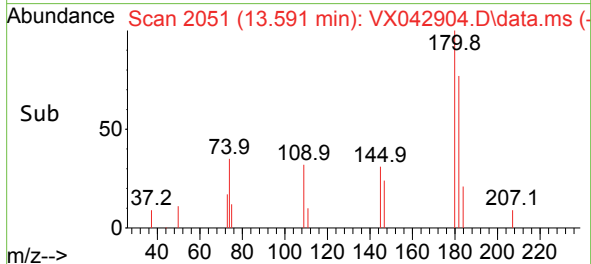
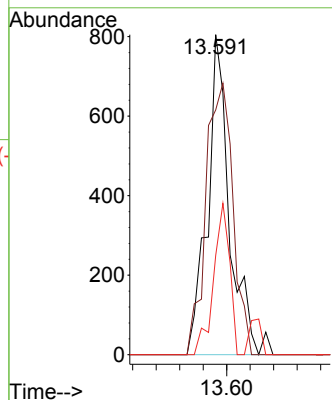
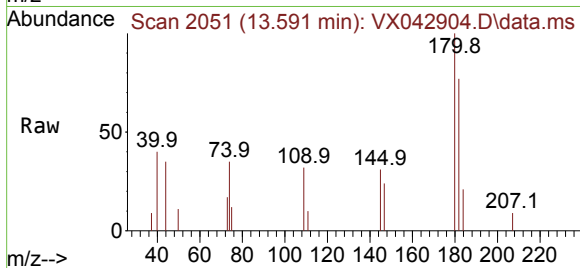
Tgt Ion:180 Resp: 1049

Ion Ratio Lower Upper

180 100

182 103.9 48.3 144.8

145 34.3 18.0 54.0



#95

Naphthalene

Concen: 0.749 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX042904.D

Acq: 07 Aug 2024 08:54

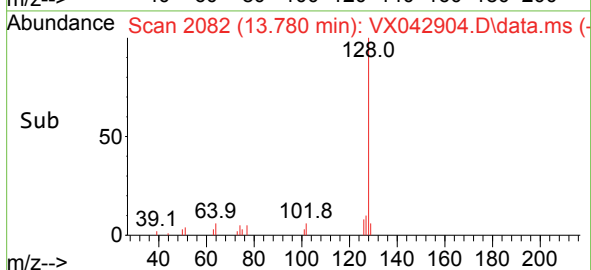
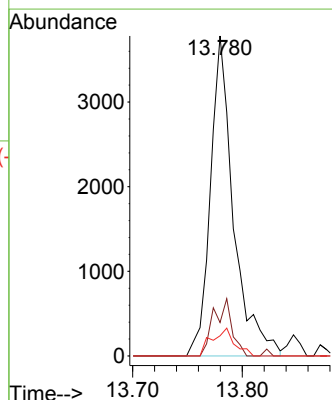
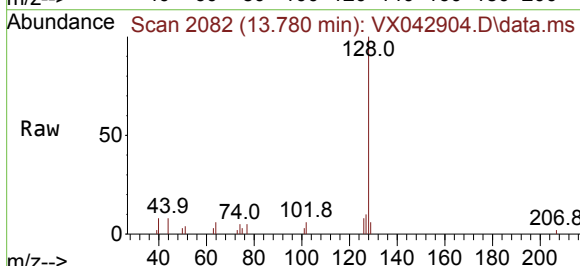
Tgt Ion:128 Resp: 5532

Ion Ratio Lower Upper

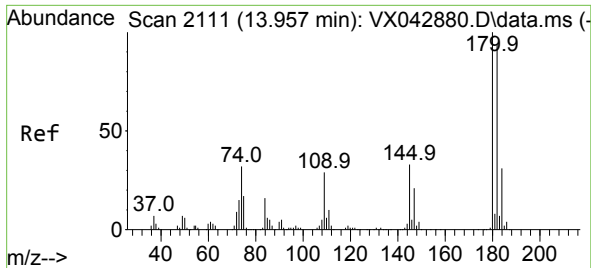
128 100

127 14.2 10.3 15.5

129 8.5 8.8 13.2#

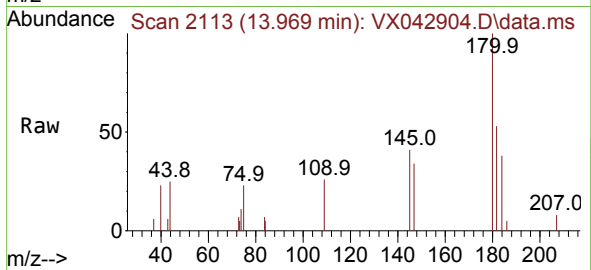






#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.676 ug/l  
 RT: 13.969 min Scan# 2113  
 Delta R.T. 0.012 min  
 Lab File: VX042904.D  
 Acq: 07 Aug 2024 08:54

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1453  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 79.4  | 46.9  | 140.6 |
| 145      | 31.2  | 17.8  | 53.5  |

