

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051124\  
 Data File : VX041471.D  
 Acq On : 10 May 2024 20:02  
 Operator : JC/MD  
 Sample : P2445-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 11 01:40:05 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 06:03:16 2024  
 Response via : Initial Calibration

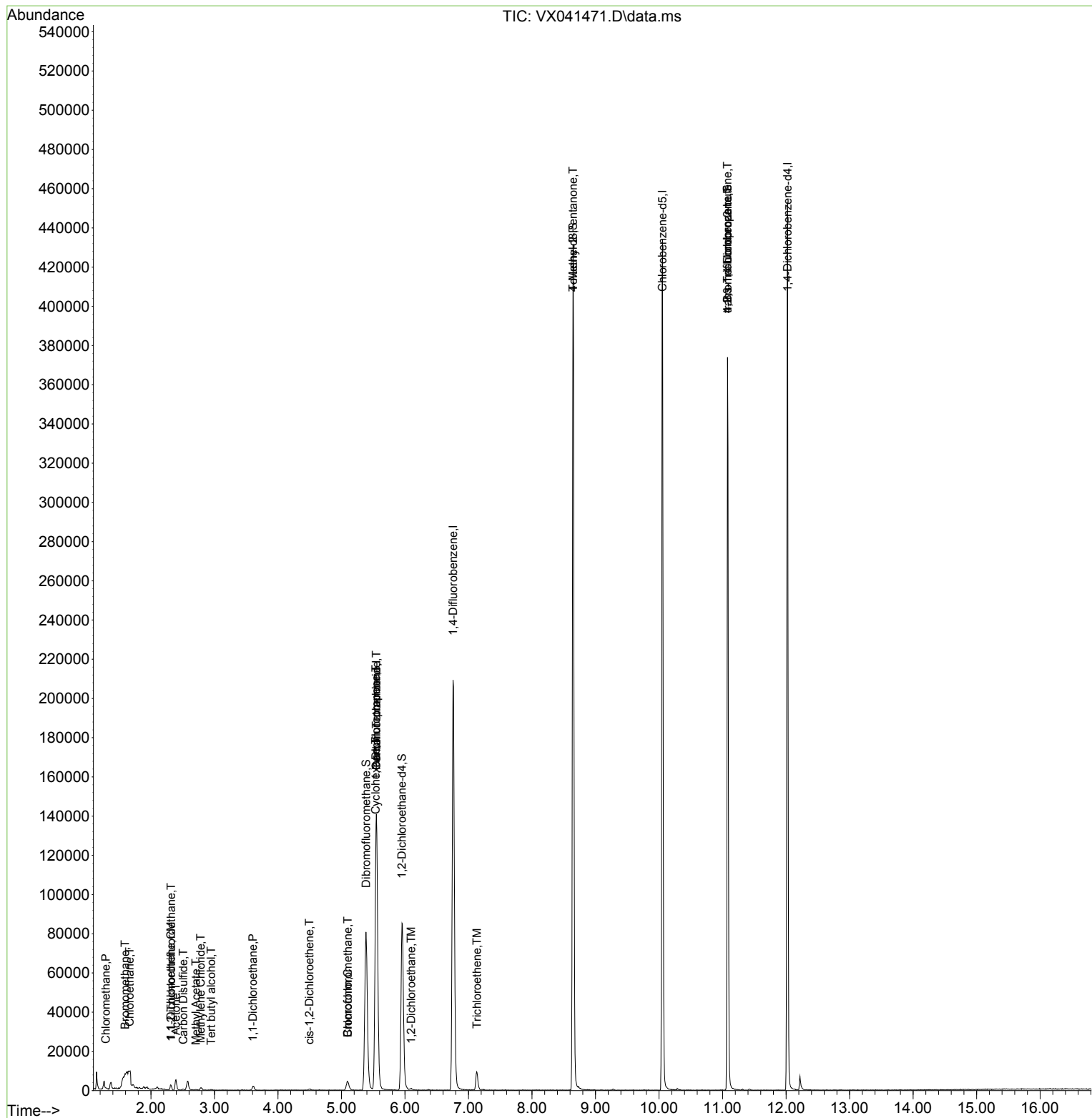
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 149770   | 50.000   | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 222300   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 210338   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 102559   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 86259    | 52.905   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 105.800% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 68300    | 45.338   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 90.680%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 254675   | 53.412   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 106.820% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 92185    | 49.944   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 99.880%  |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 3) Chloromethane              | 1.288  | 50    | 282      | 0.221    | ug/l       | # 43     |
| 5) Bromomethane               | 1.593  | 94    | 211      | 0.277    | ug/l       | # 59     |
| 6) Chloroethane               | 1.666  | 64    | 315      | 0.559    | ug/l       | # 43     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319  | 101   | 384      | 0.326    | ug/l       | # 88     |
| 11) Tert butyl alcohol        | 2.947  | 59    | 186      | 0.570    | ug/l       | # 78     |
| 12) 1,1-Dichloroethene        | 2.313  | 96    | 616      | 0.531    | ug/l       | # 91     |
| 16) Acetone                   | 2.392  | 43    | 6288     | 4.923    | ug/l       | 98       |
| 17) Carbon Disulfide          | 2.508  | 76    | 745      | 0.273    | ug/l       | # 76     |
| 18) Methyl Acetate            | 2.709  | 43    | 388      | 0.233    | ug/l       | # 65     |
| 20) Methylene Chloride        | 2.782  | 84    | 729      | 0.515    | ug/l       | # 74     |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 2539     | 1.088    | ug/l       | # 94     |
| 27) cis-1,2-Dichloroethene    | 4.495  | 96    | 460      | 0.300    | ug/l       | 64       |
| 28) Bromochloromethane        | 5.099  | 49    | 406      | 0.487    | ug/l       | # 16     |
| 30) Chloroform                | 5.099  | 83    | 5679     | 2.338    | ug/l       | 98       |
| 31) Cyclohexane               | 5.538  | 56    | 2705     | 1.375    | ug/l       | # 20     |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 9583     | 5.320    | ug/l       | # 51     |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 13381    | 6.484    | ug/l       | # 15     |
| 42) 1,2-Dichloroethane        | 6.098  | 62    | 793      | 0.390    | ug/l       | # 77     |
| 44) Trichloroethene           | 7.135  | 130   | 4306     | 2.937    | ug/l       | 81       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1166     | 0.575    | ug/l       | # 1      |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 48244    | 28.865   | ug/l       | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 48244    | 78.624   | ug/l       | # 5      |

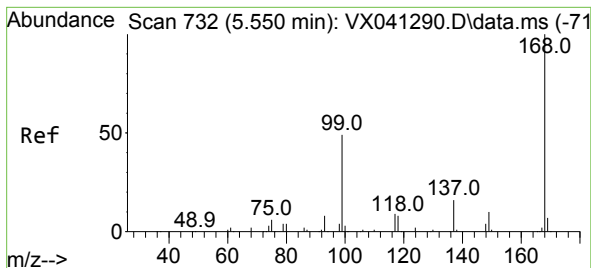
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 11 01:40:05 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 08 06:03:16 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

Instrument :

MSVOA\_X

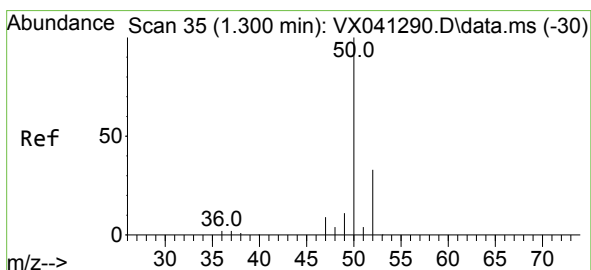
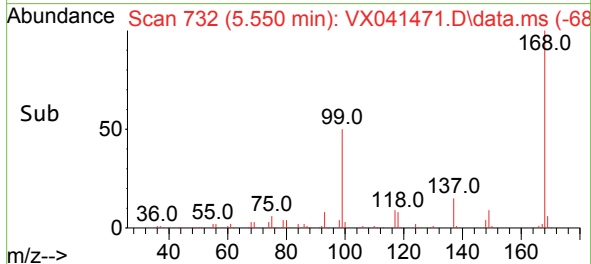
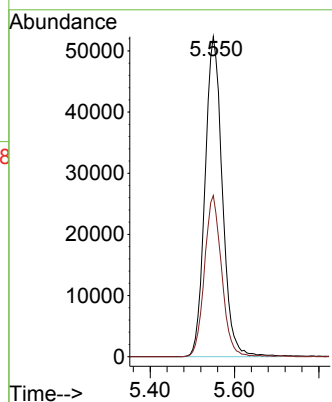
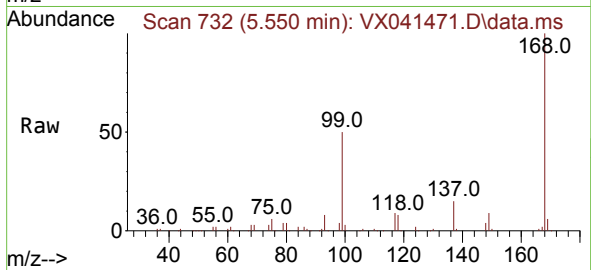
ClientSampleId :

Tgt Ion:168 Resp: 149770

Ion Ratio Lower Upper

168 100

99 50.3 56.6 85.0#



#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.288 min Scan# 33

Delta R.T. -0.012 min

Lab File: VX041471.D

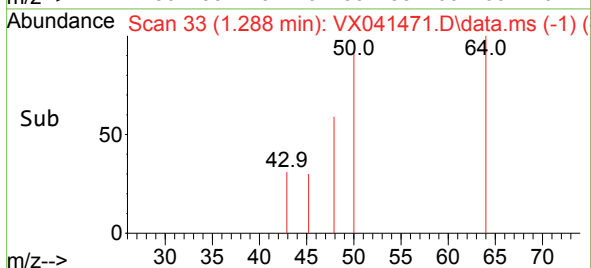
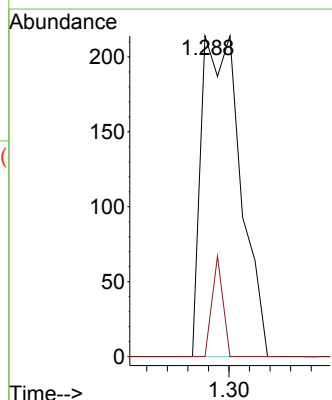
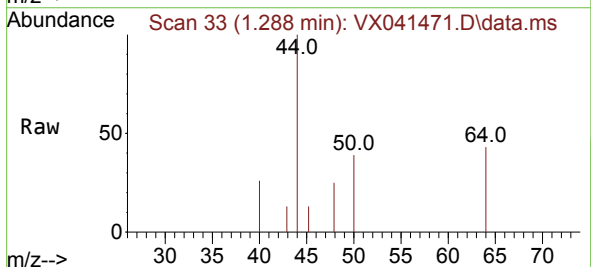
Acq: 10 May 2024 20:02

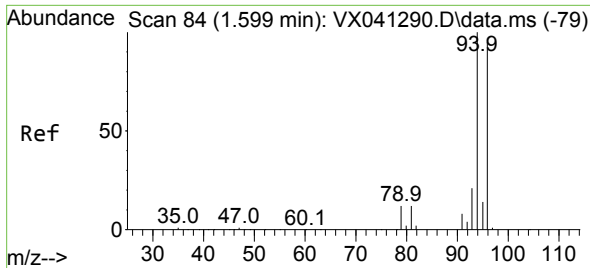
Tgt Ion: 50 Resp: 282

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#

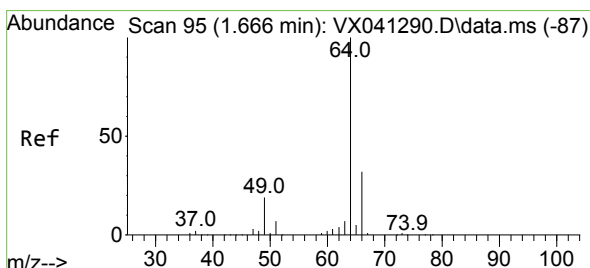
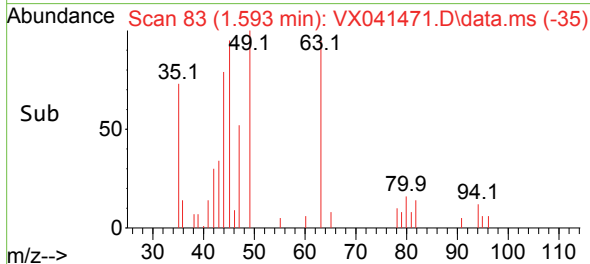
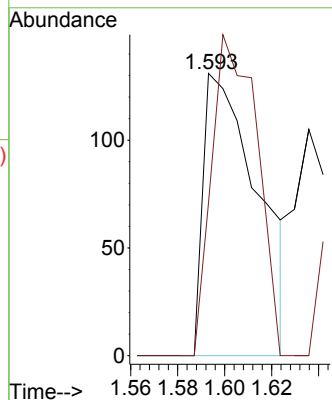
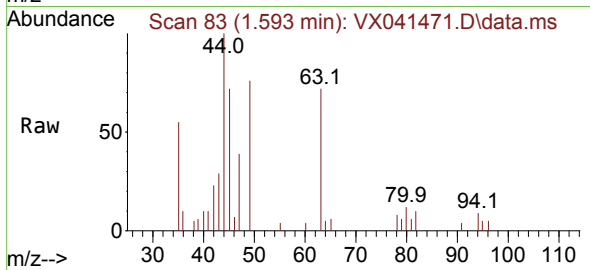




#5  
Bromomethane  
Concen: 0.277 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

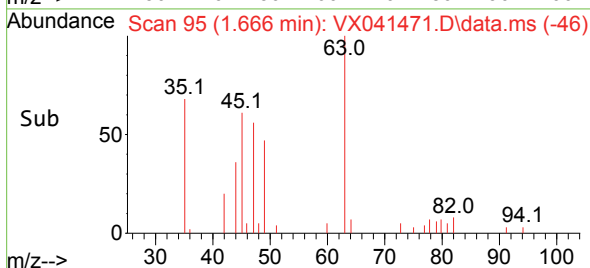
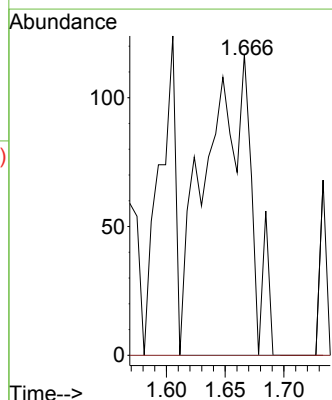
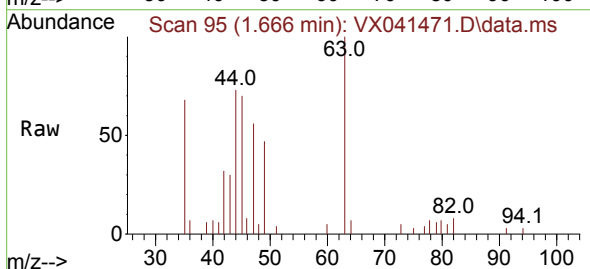
Instrument :  
MSVOA\_X  
ClientSampleId :

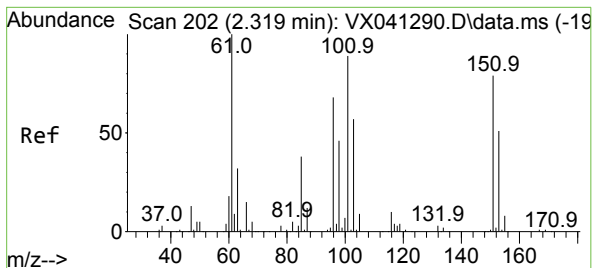
Tgt Ion: 94 Resp: 211  
Ion Ratio Lower Upper  
94 100  
96 54.2 74.6 111.8#



#6  
Chloroethane  
Concen: 0.559 ug/l  
RT: 1.666 min Scan# 95  
Delta R.T. 0.000 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Tgt Ion: 64 Resp: 315  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#

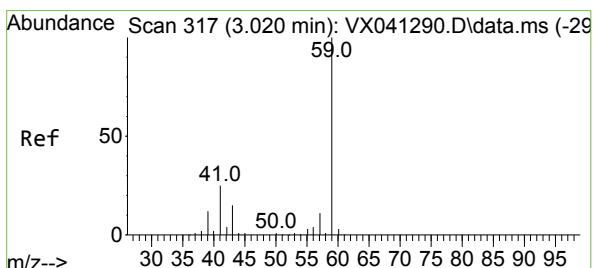
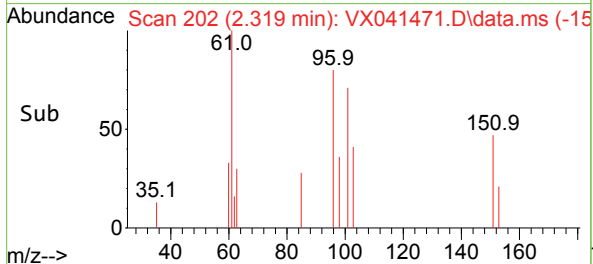
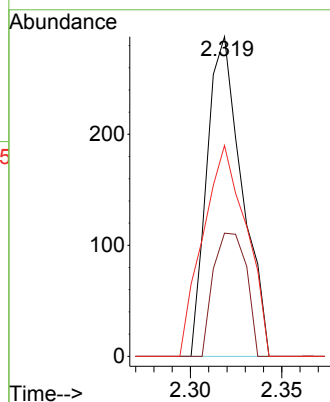
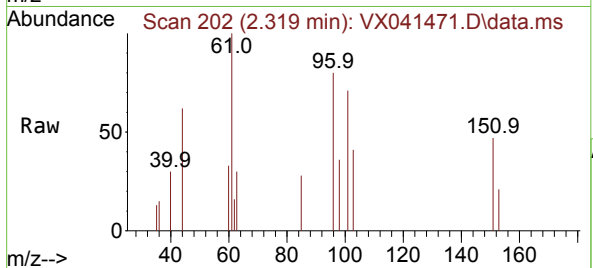




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.326 ug/l  
RT: 2.319 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

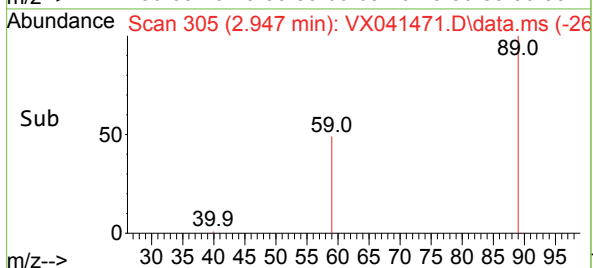
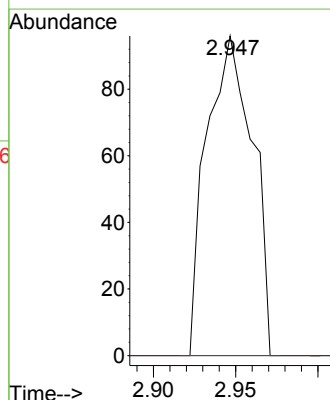
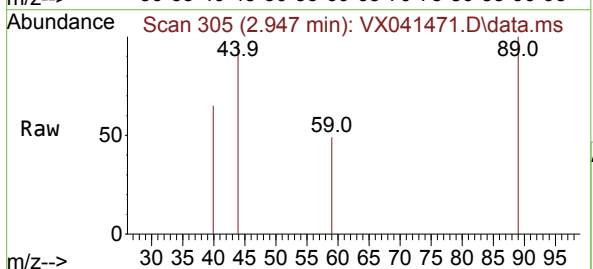
Instrument :  
MSVOA\_X  
ClientSampleId :

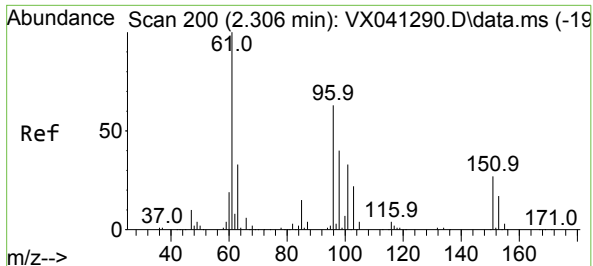
Tgt Ion:101 Resp: 384  
Ion Ratio Lower Upper  
101 100  
85 36.2 37.0 55.6#  
151 81.5 58.6 87.8



#11  
Tert butyl alcohol  
Concen: 0.570 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. -0.073 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Tgt Ion: 59 Resp: 186  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#





#12

1,1-Dichloroethene

Concen: 0.531 ug/l

RT: 2.313 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

Instrument :

MSVOA\_X

ClientSampleId :

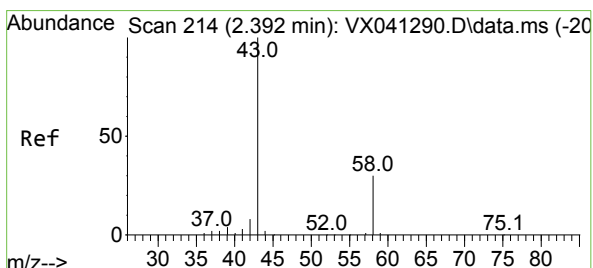
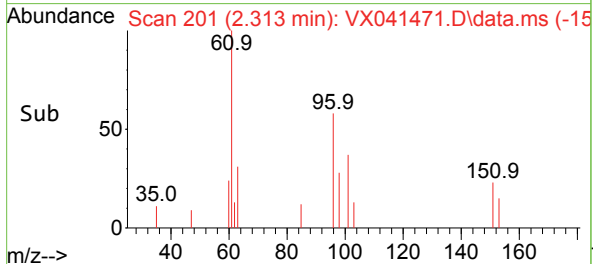
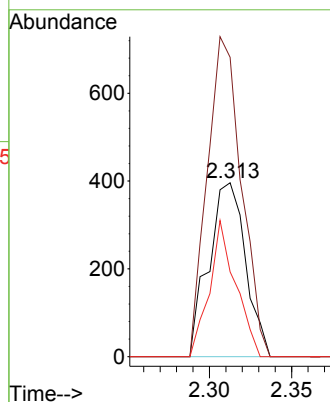
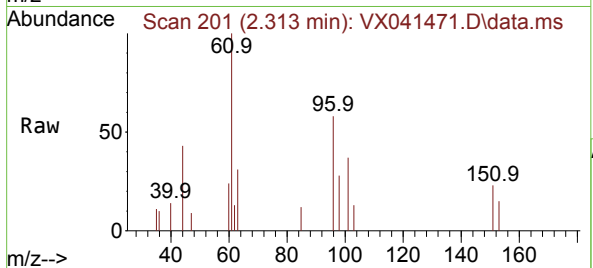
Tgt Ion: 96 Resp: 616

Ion Ratio Lower Upper

96 100

61 172.2 144.6 216.8

98 48.7 50.4 75.6#



#16

Acetone

Concen: 4.923 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX041471.D

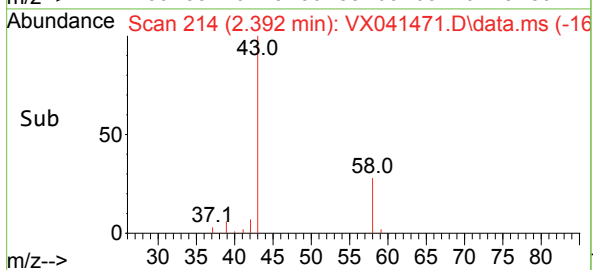
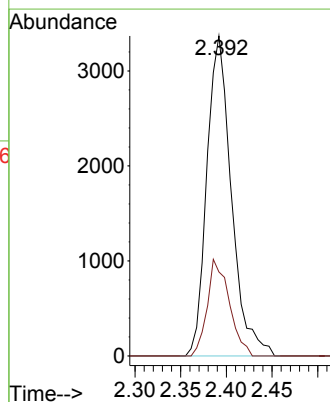
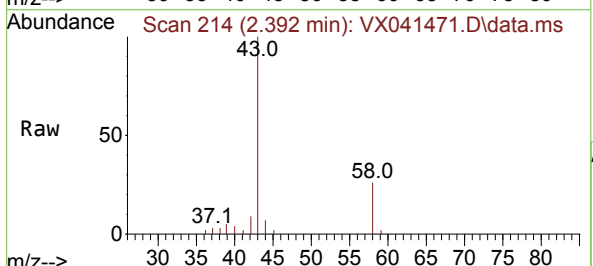
Acq: 10 May 2024 20:02

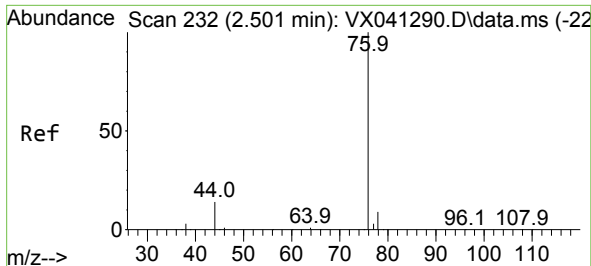
Tgt Ion: 43 Resp: 6288

Ion Ratio Lower Upper

43 100

58 26.2 21.9 32.9





#17

Carbon Disulfide

Concen: 0.273 ug/l

RT: 2.508 min Scan# 21

Delta R.T. 0.007 min

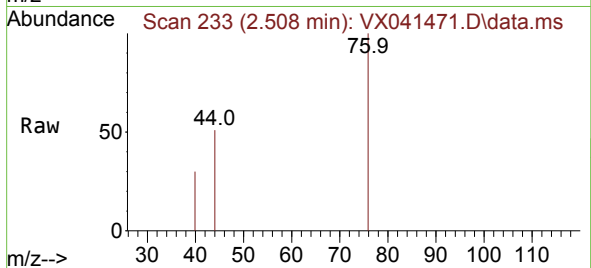
Lab File: VX041471.D

Acq: 10 May 2024 20:02

Instrument :

MSVOA\_X

ClientSampleId :

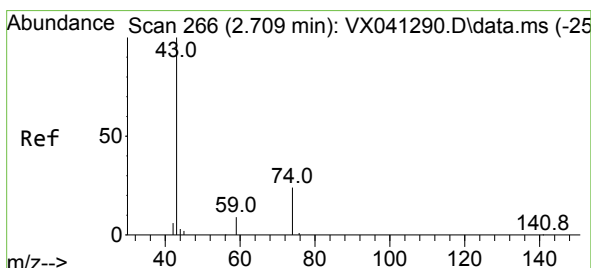
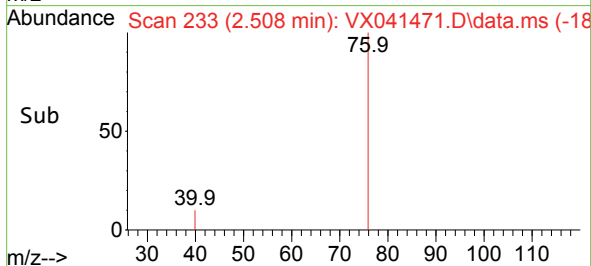
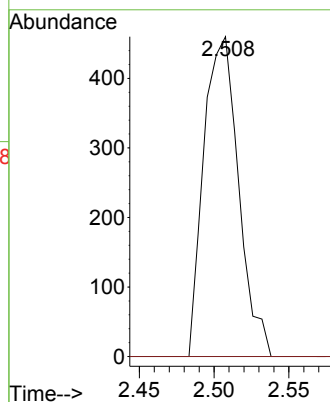


Tgt Ion: 76 Resp: 745

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 0.233 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.000 min

Lab File: VX041471.D

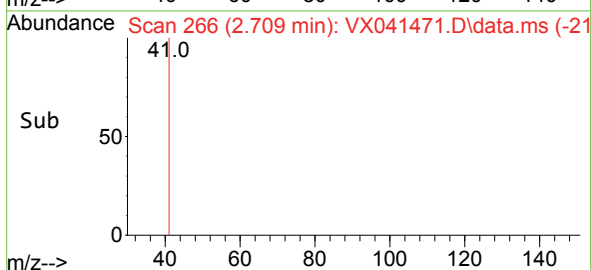
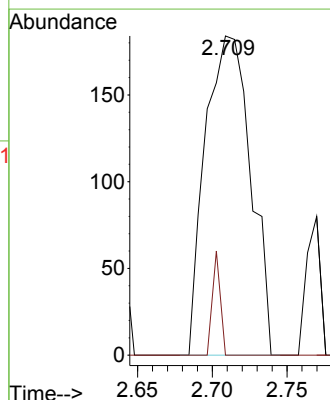
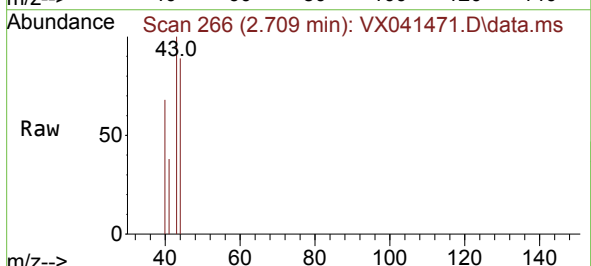
Acq: 10 May 2024 20:02

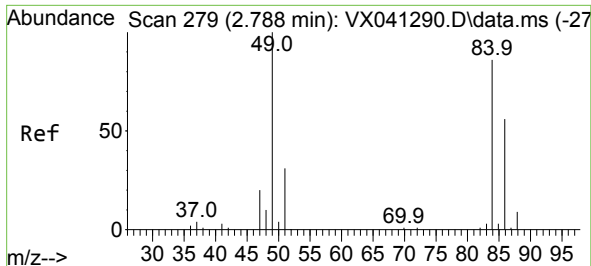
Tgt Ion: 43 Resp: 388

Ion Ratio Lower Upper

43 100

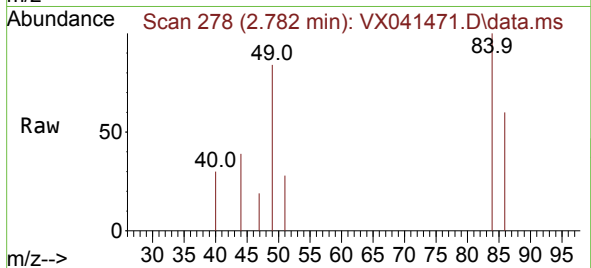
74 5.7 17.8 26.8#





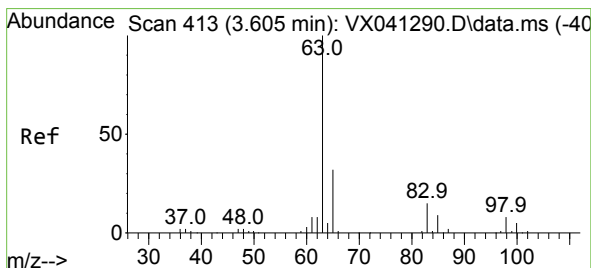
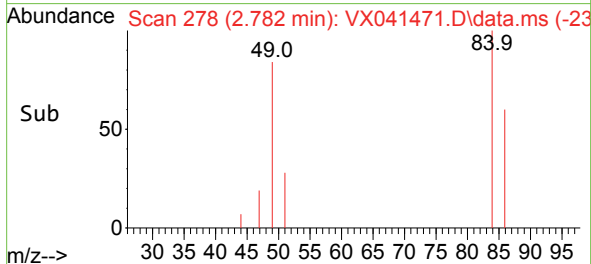
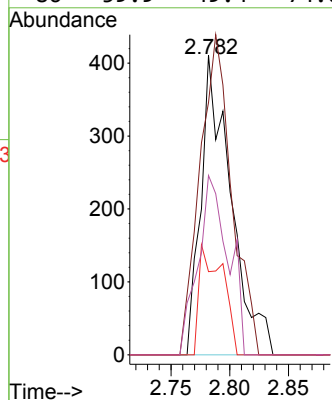
#20  
Methylene Chloride  
Concen: 0.515 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 729

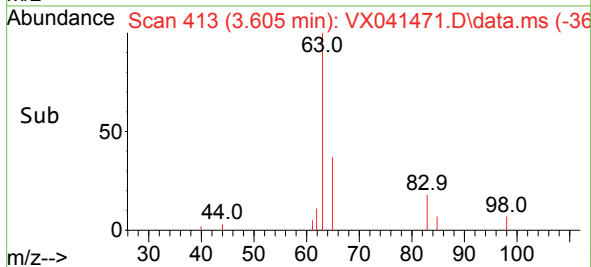
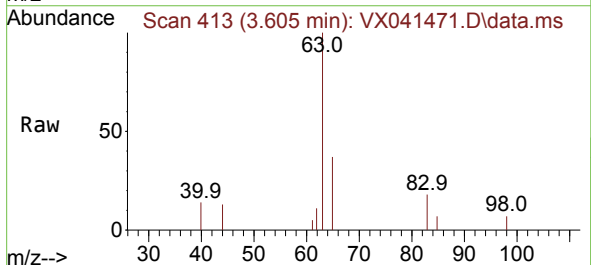
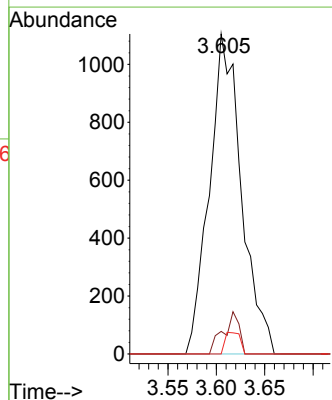
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 84.2  | 103.6 | 155.4# |
| 51  | 27.7  | 33.8  | 50.6#  |
| 86  | 59.9  | 49.4  | 74.0   |

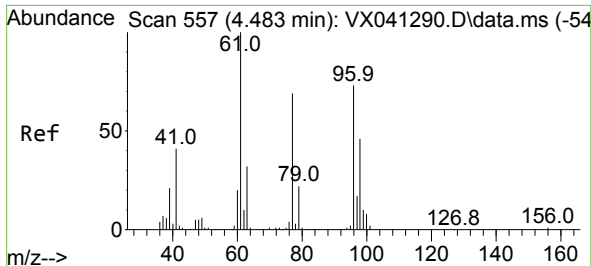


#24  
1,1-Dichloroethane  
Concen: 1.088 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Tgt Ion: 63 Resp: 2539

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 7.1   | 3.3   | 9.8   |
| 100 | 0.0   | 2.1   | 6.5#  |





#27

cis-1,2-Dichloroethene

Concen: 0.300 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.012 min

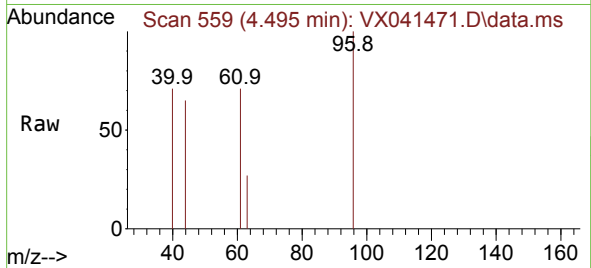
Lab File: VX041471.D

Acq: 10 May 2024 20:02

Instrument :

MSVOA\_X

ClientSampleId :



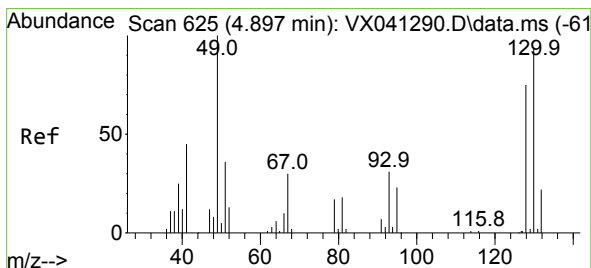
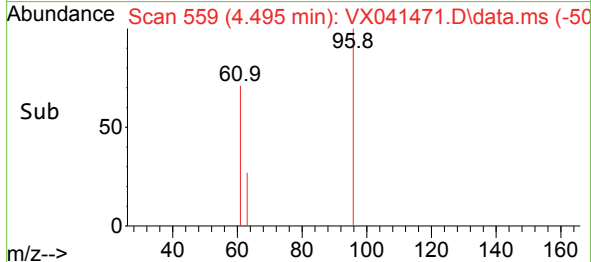
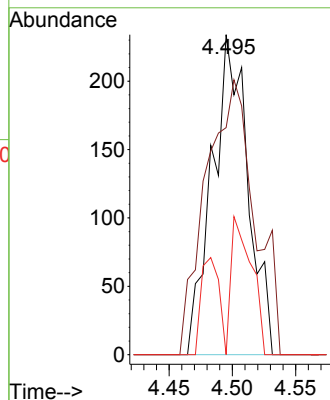
Tgt Ion: 96 Resp: 460

Ion Ratio Lower Upper

96 100

61 117.0 0.0 312.2

98 24.8 0.0 129.0



#28

Bromochloromethane

Concen: 0.487 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.202 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

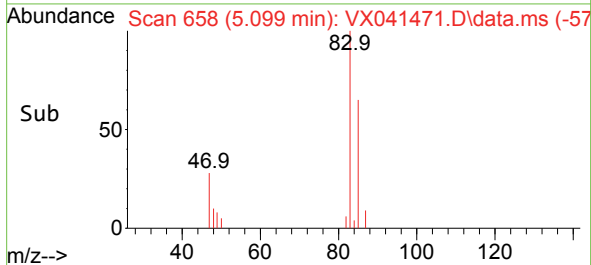
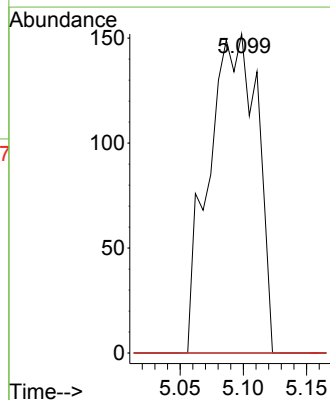
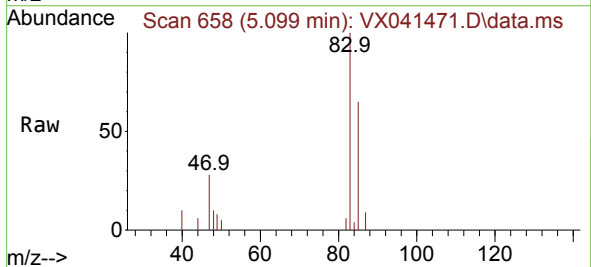
Tgt Ion: 49 Resp: 406

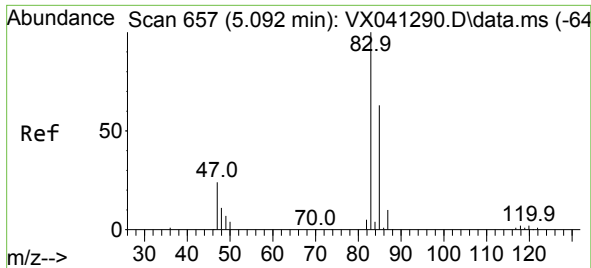
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 57.5 86.3#

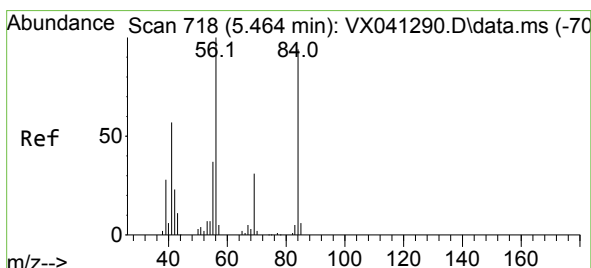
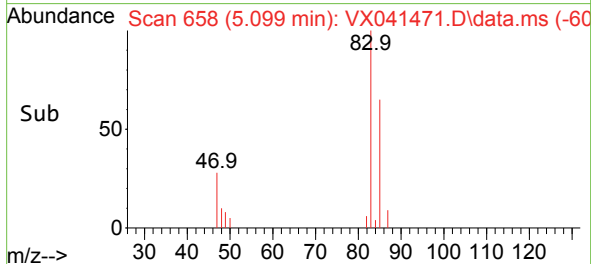
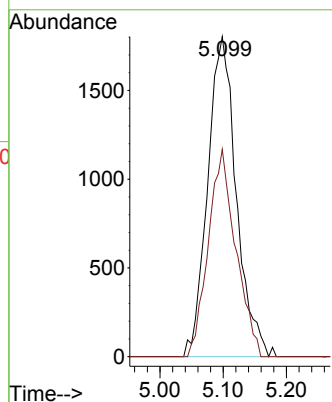
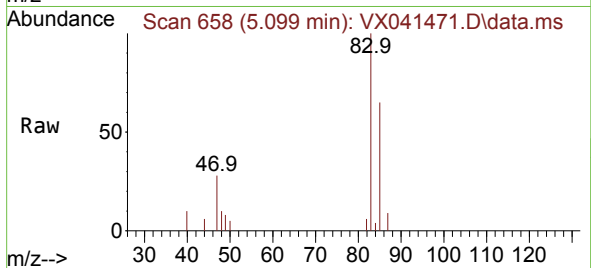




#30  
Chloroform  
Concen: 2.338 ug/l  
RT: 5.099 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

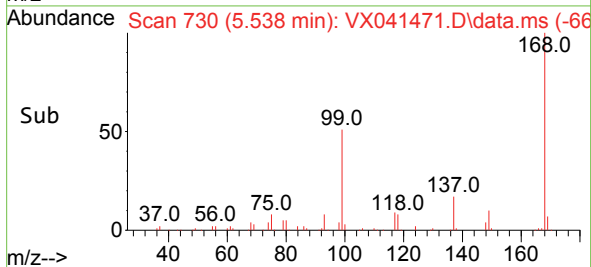
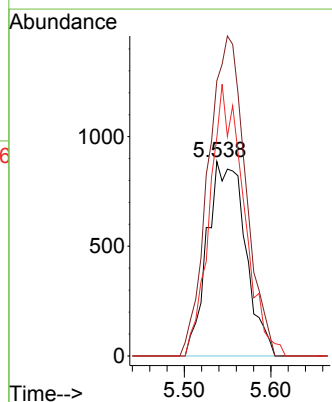
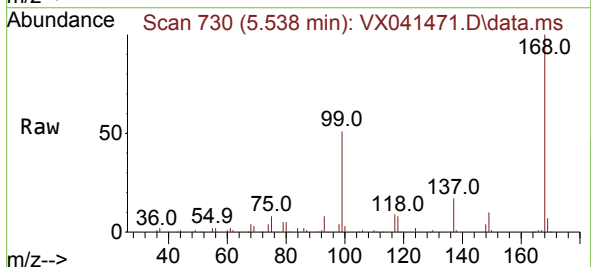
Instrument :  
MSVOA\_X  
ClientSampleId :

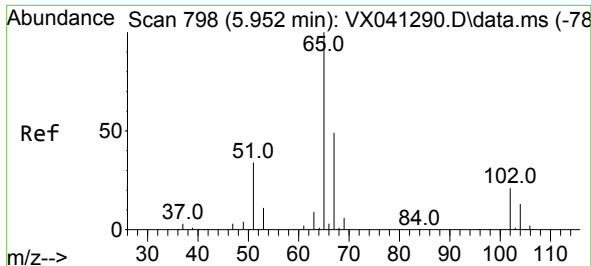
Tgt Ion: 83 Resp: 5679  
Ion Ratio Lower Upper  
83 100  
85 64.8 50.3 75.5



#31  
Cyclohexane  
Concen: 1.375 ug/l  
RT: 5.538 min Scan# 730  
Delta R.T. 0.073 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Tgt Ion: 56 Resp: 2705  
Ion Ratio Lower Upper  
56 100  
69 141.6 23.4 35.2#  
84 112.3 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 52.905 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

Instrument :

MSVOA\_X

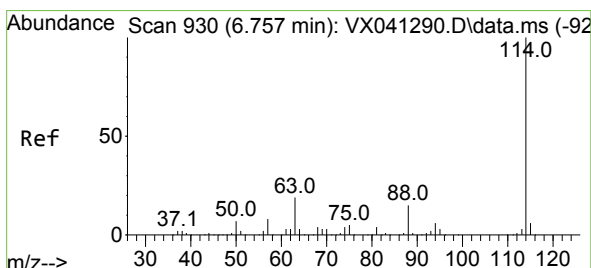
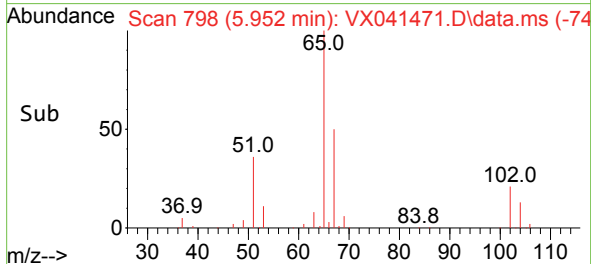
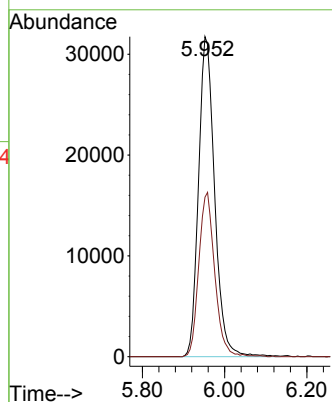
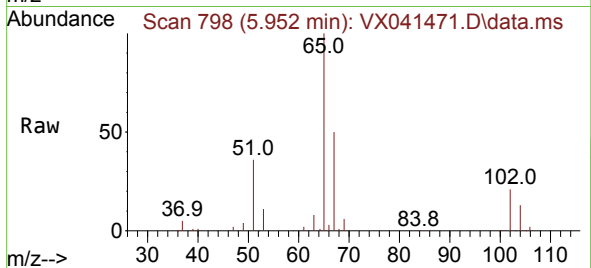
ClientSampleId :

Tgt Ion: 65 Resp: 86259

Ion Ratio Lower Upper

65 100

67 51.0 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

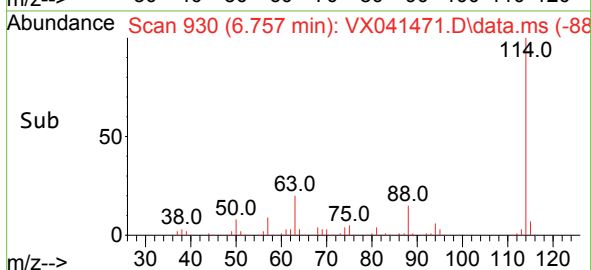
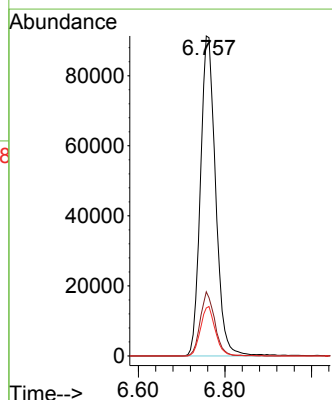
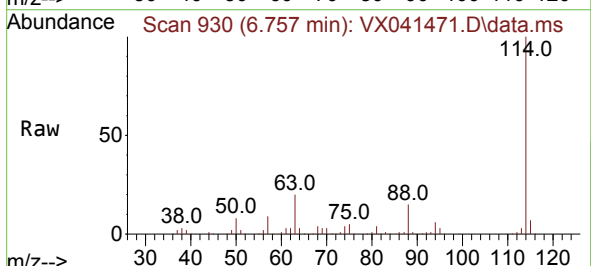
Tgt Ion: 114 Resp: 222300

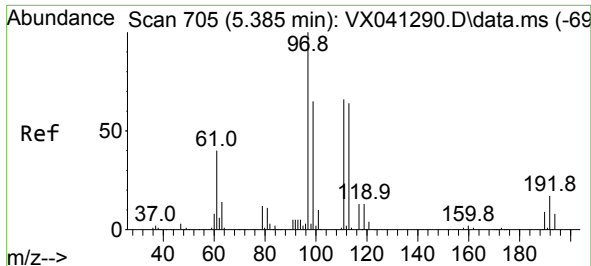
Ion Ratio Lower Upper

114 100

63 20.0 0.0 45.0

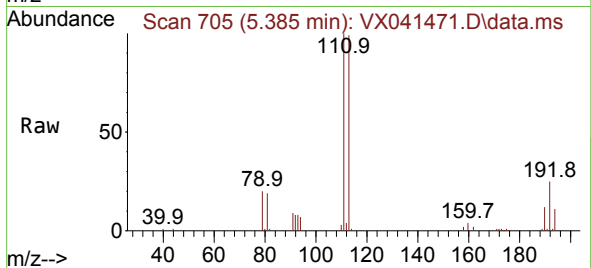
88 15.0 0.0 36.6



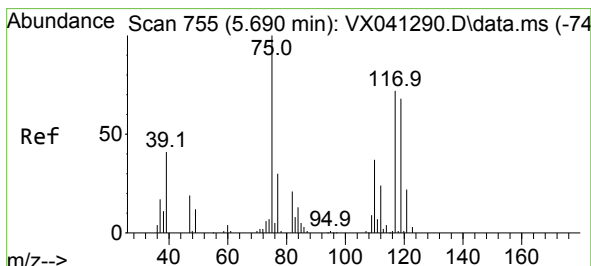
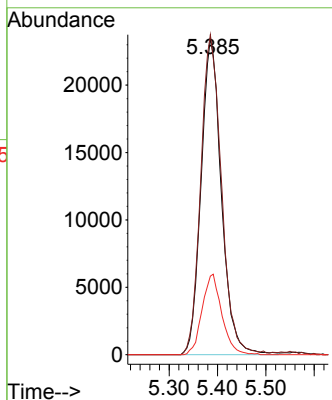
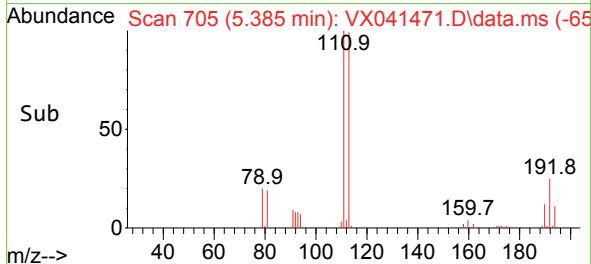


#35  
Dibromofluoromethane  
Concen: 45.338 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Instrument :  
MSVOA\_X  
ClientSampleId :

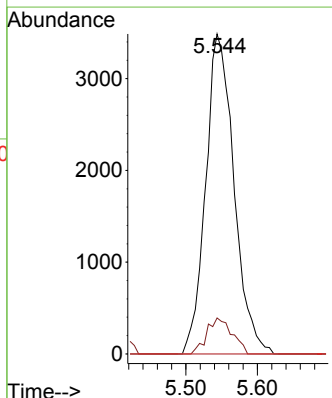
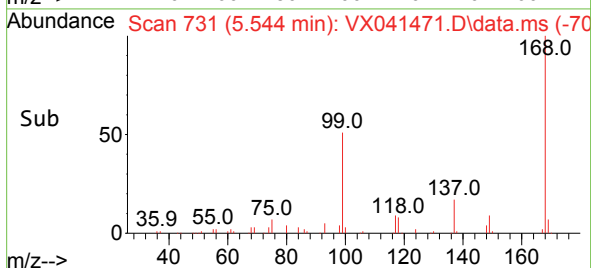
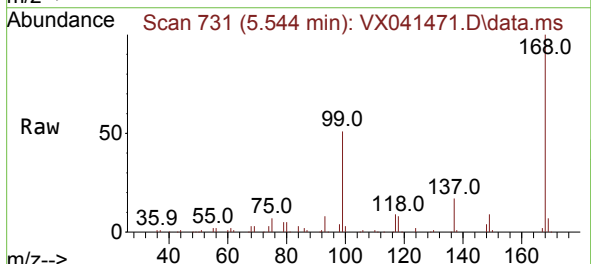


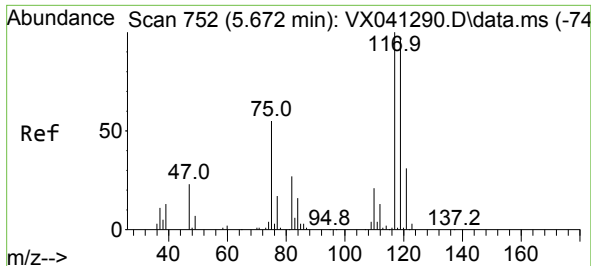
Tgt Ion:113 Resp: 68300  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.9 124.3  
192 24.8 13.3 19.9#



#36  
1,1-Dichloropropene  
Concen: 5.320 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.146 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

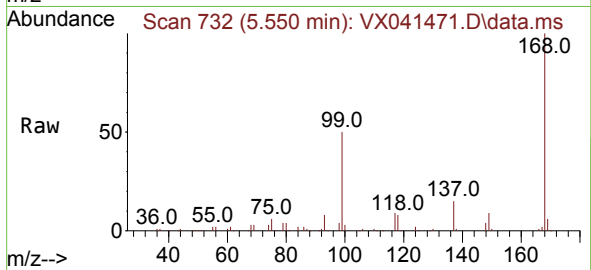
Tgt Ion: 75 Resp: 9583  
Ion Ratio Lower Upper  
75 100  
110 10.1 17.0 50.9#  
77 0.0 24.7 37.1#



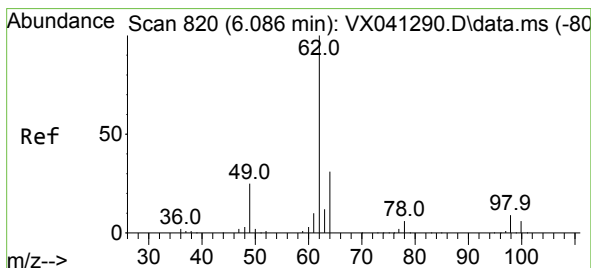
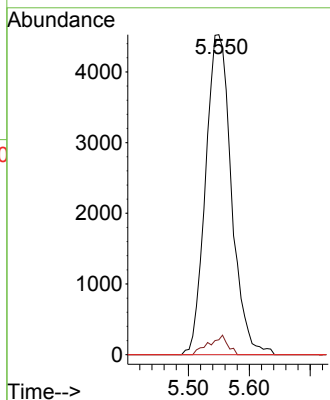
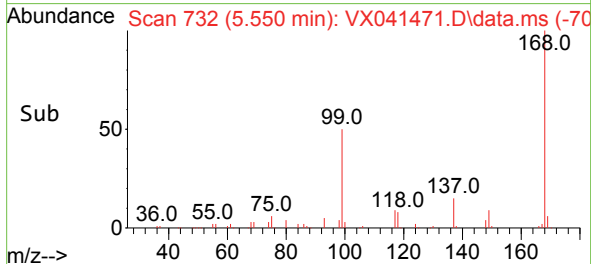


#38  
Carbon Tetrachloride  
Concen: 6.484 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Instrument :  
MSVOA\_X  
ClientSampleId :

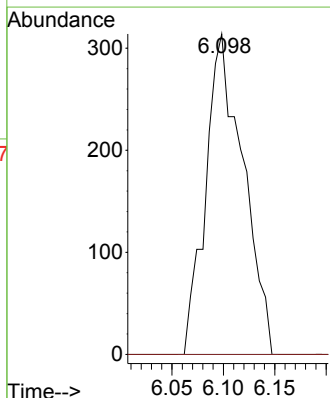
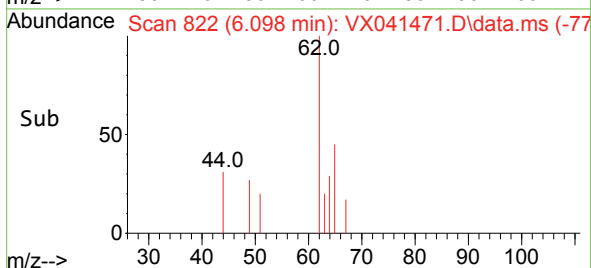
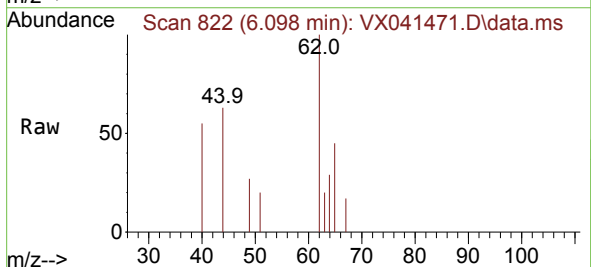


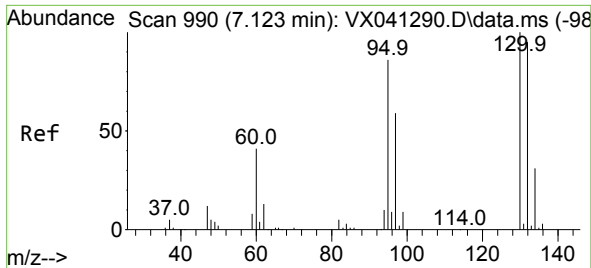
Tgt Ion:117 Resp: 13381  
Ion Ratio Lower Upper  
117 100  
119 4.7 78.2 117.2#  
121 0.0 24.4 36.6#



#42  
1,2-Dichloroethane  
Concen: 0.390 ug/l  
RT: 6.098 min Scan# 822  
Delta R.T. 0.012 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Tgt Ion: 62 Resp: 793  
Ion Ratio Lower Upper  
62 100  
98 0.0 0.0 16.0

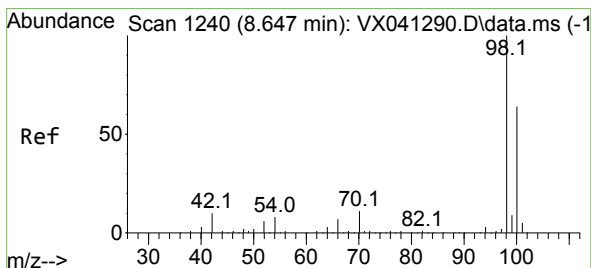
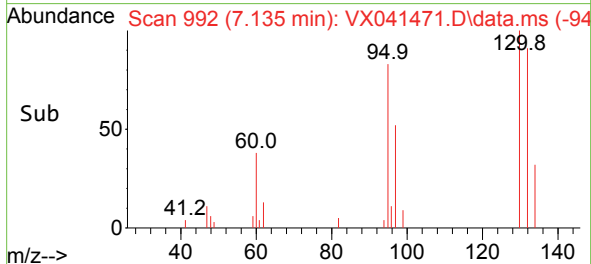
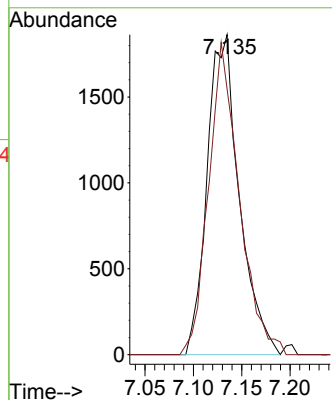
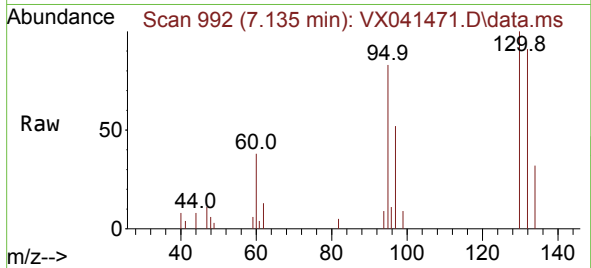




#44  
Trichloroethene  
Concen: 2.937 ug/l  
RT: 7.135 min Scan# 990  
Delta R.T. 0.012 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

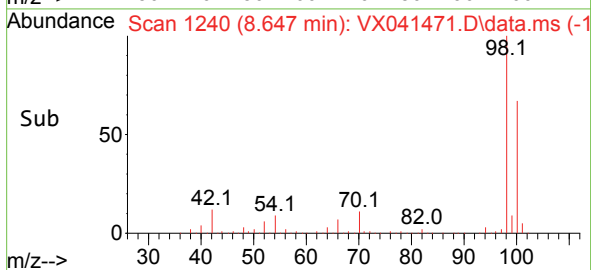
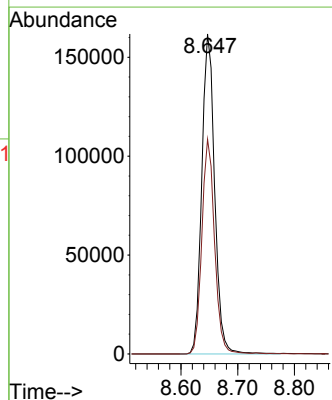
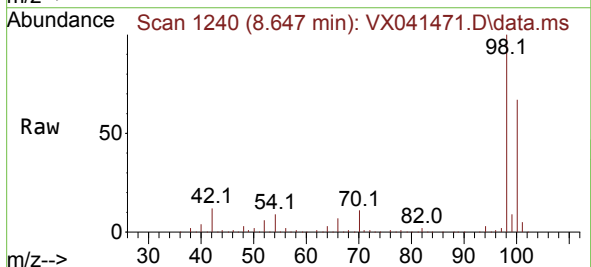
Instrument :  
MSVOA\_X  
ClientSampleId :

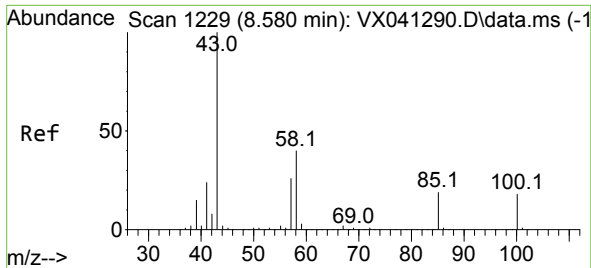
Tgt Ion:130 Resp: 4306  
Ion Ratio Lower Upper  
130 100  
95 83.0 0.0 204.4



#50  
Toluene-d8  
Concen: 53.412 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Tgt Ion: 98 Resp: 254675  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.1 79.7

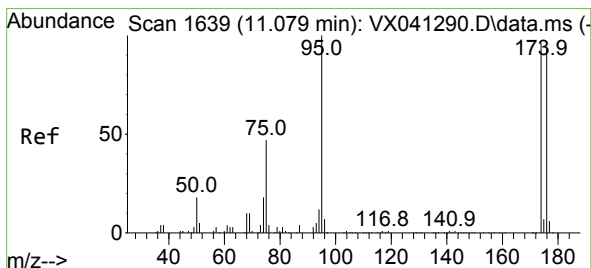
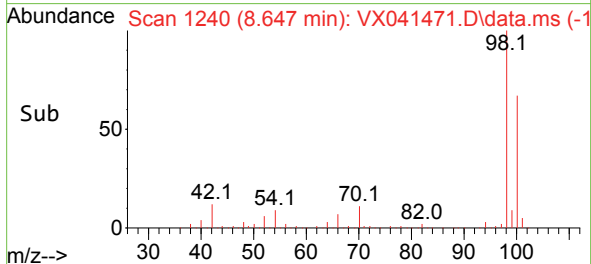
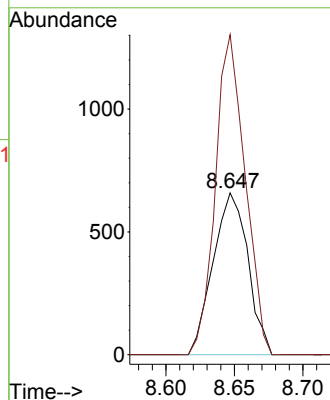
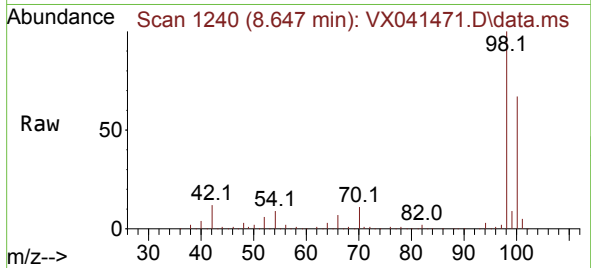




#51  
4-Methyl-2-Pentanone  
Concen: 0.575 ug/l  
RT: 8.647 min Scan# 1166  
Delta R.T. 0.067 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

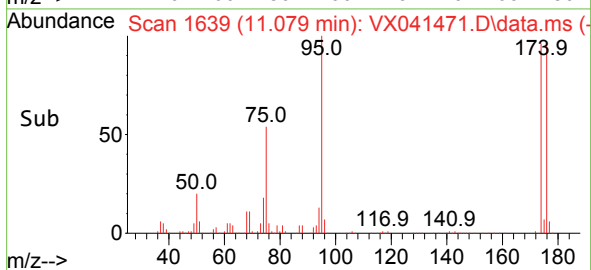
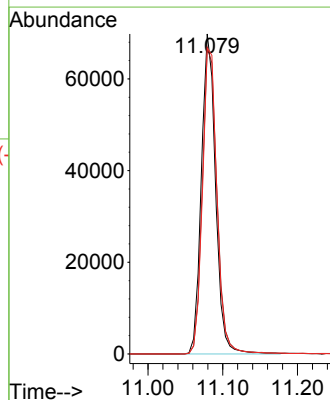
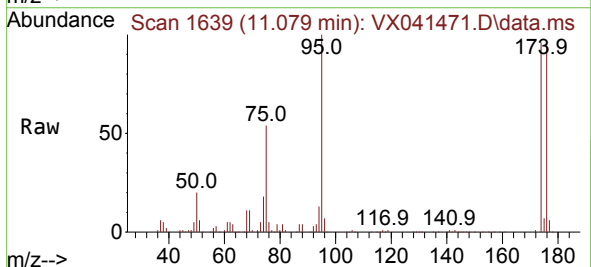
Instrument :  
MSVOA\_X  
ClientSampleId :

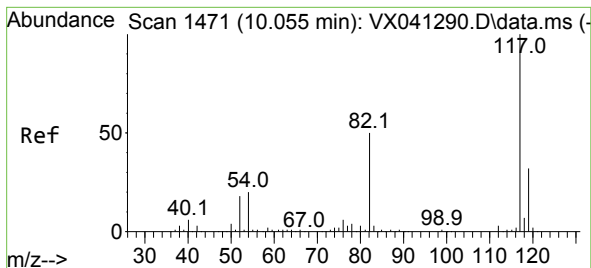
Tgt Ion: 43 Resp: 1166  
Ion Ratio Lower Upper  
43 100  
58 169.3 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 49.944 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX041471.D  
Acq: 10 May 2024 20:02

Tgt Ion: 95 Resp: 92185  
Ion Ratio Lower Upper  
95 100  
174 98.6 0.0 135.6  
176 97.8 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

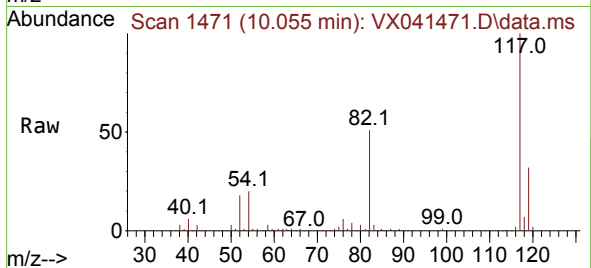
Lab File: VX041471.D

Acq: 10 May 2024 20:02

Instrument :

MSVOA\_X

ClientSampleId :



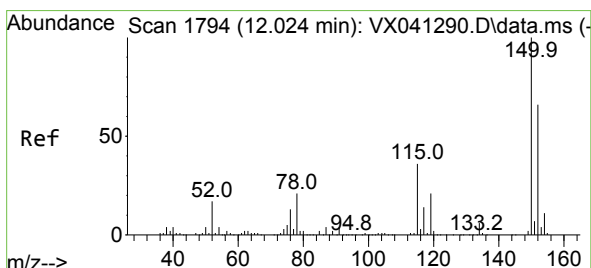
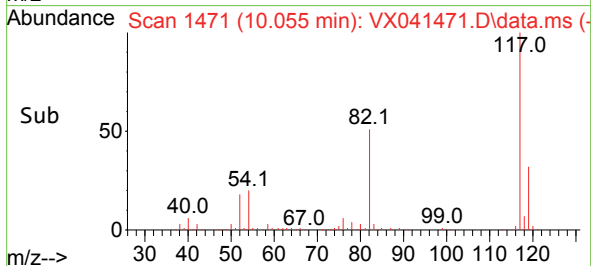
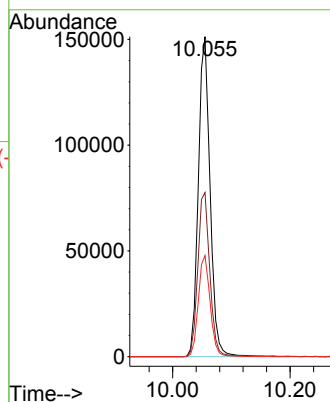
Tgt Ion:117 Resp: 210338

Ion Ratio Lower Upper

117 100

82 51.3 46.2 69.4

119 31.6 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

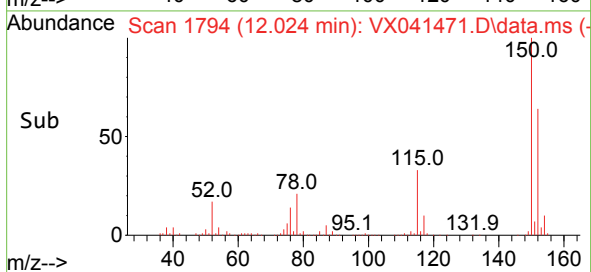
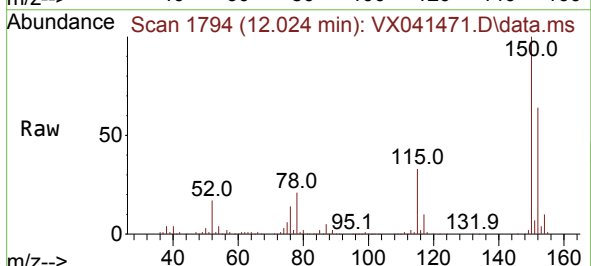
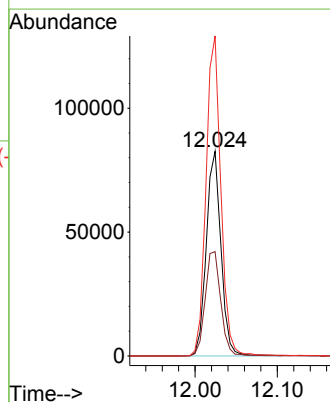
Tgt Ion:152 Resp: 102559

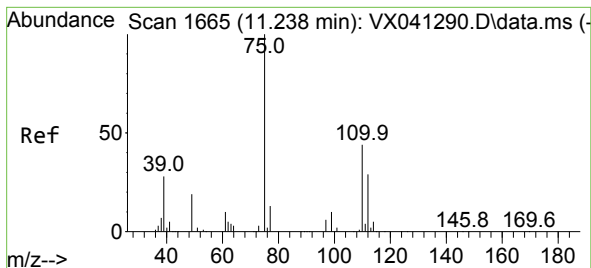
Ion Ratio Lower Upper

152 100

115 54.1 43.3 129.9

150 157.9 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 28.865 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

Instrument :

MSVOA\_X

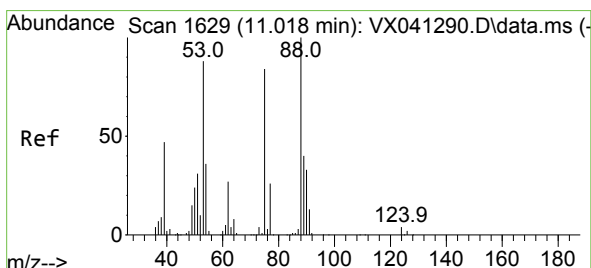
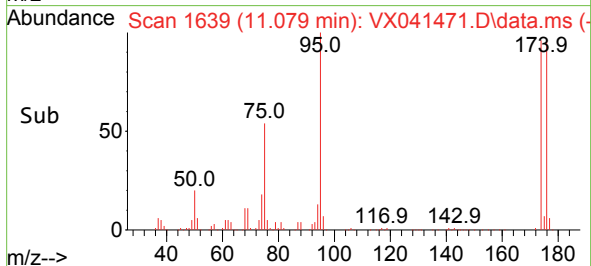
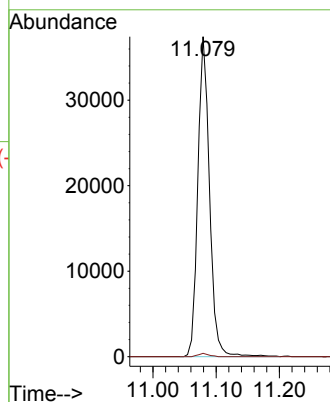
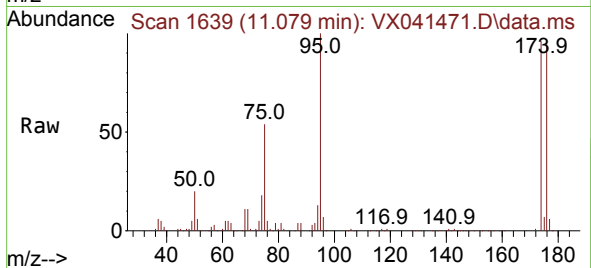
ClientSampleId :

Tgt Ion: 75 Resp: 48244

Ion Ratio Lower Upper

75 100

77 0.9 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.624 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX041471.D

Acq: 10 May 2024 20:02

Tgt Ion: 75 Resp: 48244

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

