

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX050724\  
 Data File : VX041403.D  
 Acq On : 07 May 2024 13:54  
 Operator : JC/MD  
 Sample : P2389-03 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 08 02:00:01 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 01 02:38:17 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 186538   | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 229996   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 215832   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 122225   | 50.000   | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 94666    | 46.617   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =     | 93.240%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 79343    | 50.906   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =     | 101.820% |
| 50) Toluene-d8                | 8.647  | 98    | 262117   | 53.134   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =     | 106.260% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 93650    | 49.040   | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =     | 98.080%  |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 5) Bromomethane               | 1.599  | 94    | 543      | 0.573    | ug/l  | 93       |
| 10) Methyl Iodide             | 2.453  | 142   | 648      | 0.411    | ug/l  | # 71     |
| 11) Tert butyl alcohol        | 2.941  | 59    | 4534     | 11.155   | ug/l  | # 78     |
| 13) Acrolein                  | 2.300  | 56    | 88882    | 275.647  | ug/l  | # 1      |
| 16) Acetone                   | 2.392  | 43    | 1099408  | 1244.975 | ug/l  | # 1      |
| 20) Methylene Chloride        | 2.788  | 84    | 1107     | 0.628    | ug/l  | # 84     |
| 22) Diisopropyl ether         | 3.892  | 45    | 10653    | 2.070    | ug/l  | # 1      |
| 23) Vinyl Acetate             | 3.892  | 43    | 26965    | 5.857    | ug/l  | # 73     |
| 29) Tetrahydrofuran           | 5.026  | 42    | 181      | 0.211    | ug/l  | # 34     |
| 31) Cyclohexane               | 5.544  | 56    | 3116     | 1.271    | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11635    | 6.243    | ug/l  | # 52     |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 16656    | 7.801    | ug/l  | # 16     |
| 45) 1,2-Dichloropropane       | 7.543  | 63    | 1430     | 1.114    | ug/l  | # 1      |
| 48) Methyl methacrylate       | 7.556  | 41    | 6798     | 4.241    | ug/l  | # 16     |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1147     | 0.547    | ug/l  | # 1      |
| 53) t-1,3-Dichloropropene     | 8.994  | 75    | 418      | 0.232    | ug/l  | # 43     |
| 59) 2-Hexanone                | 9.159  | 43    | 8864     | 5.284    | ug/l  | 92       |
| 68) m/p-Xylenes               | 10.311 | 106   | 589      | 0.203    | ug/l  | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 11.153 | 83    | 31990    | 13.085   | ug/l  | # 32     |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 48069    | 24.132   | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 48069    | 65.734   | ug/l  | # 5      |

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

Quant Time: May 08 02:00:01 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 01 02:38:17 2024  
Response via : Initial Calibration

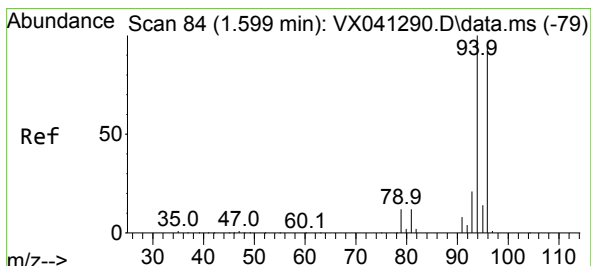
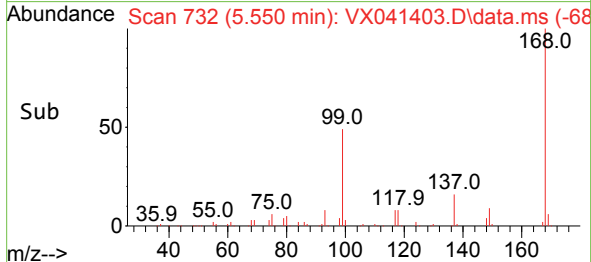
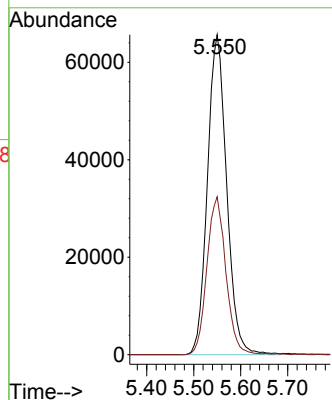
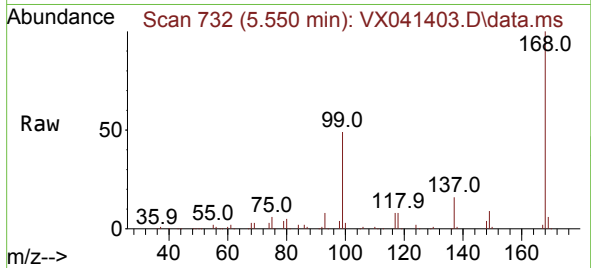




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

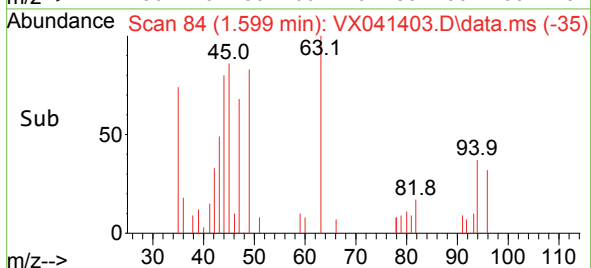
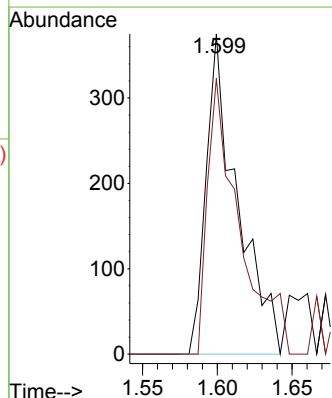
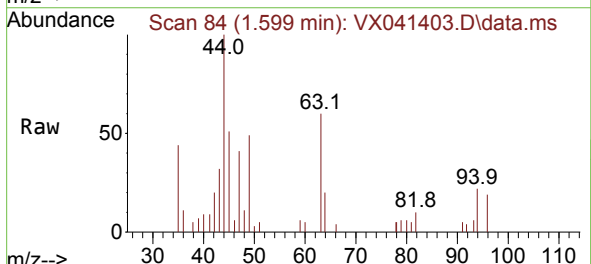
Instrument :  
MSVOA\_X  
ClientSampleId :

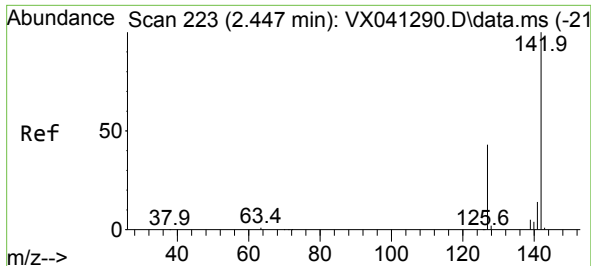
Tgt Ion:168 Resp: 186538  
Ion Ratio Lower Upper  
168 100  
99 49.4 56.6 85.0#



#5  
Bromomethane  
Concen: 0.573 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

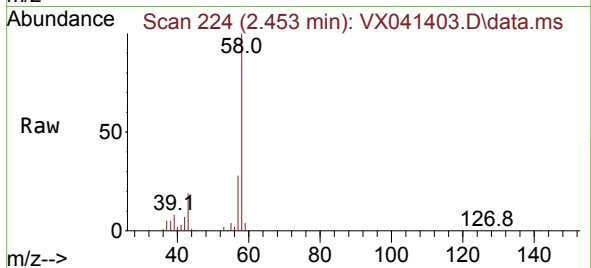
Tgt Ion: 94 Resp: 543  
Ion Ratio Lower Upper  
94 100  
96 86.1 74.6 111.8



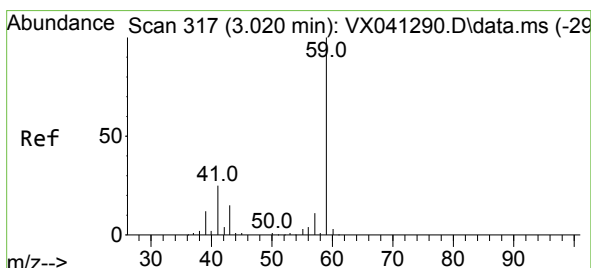
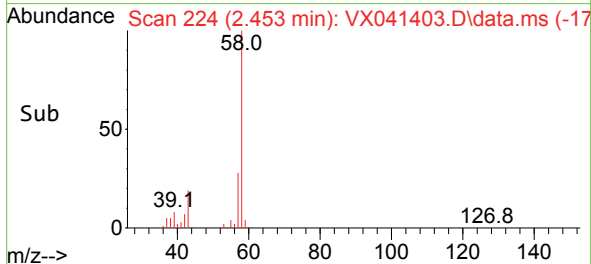
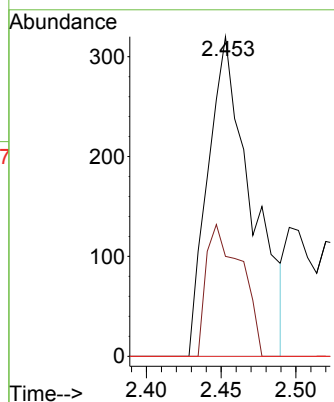


#10  
Methyl Iodide  
Concen: 0.411 ug/l  
RT: 2.453 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Instrument :  
MSVOA\_X  
ClientSampleId :

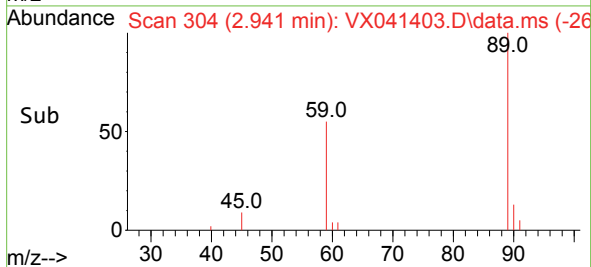
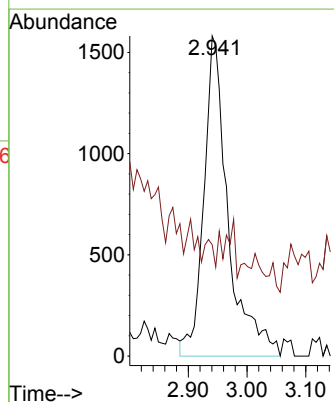
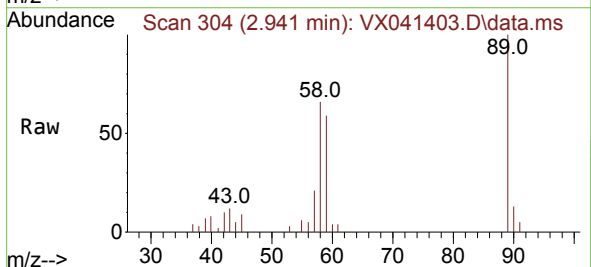


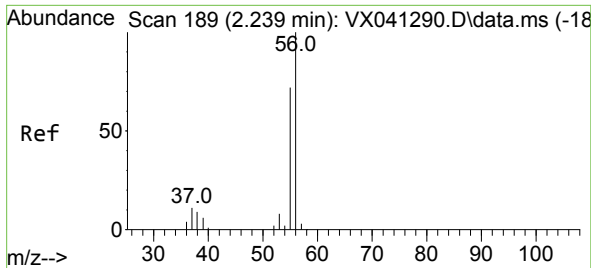
Tgt Ion:142 Resp: 648  
Ion Ratio Lower Upper  
142 100  
127 33.0 41.6 62.4#  
141 0.0 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 11.155 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.079 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion: 59 Resp: 4534  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 275.647 ug/l

RT: 2.300 min Scan# 189

Delta R.T. 0.061 min

Lab File: VX041403.D

Acq: 07 May 2024 13:54

Instrument :

MSVOA\_X

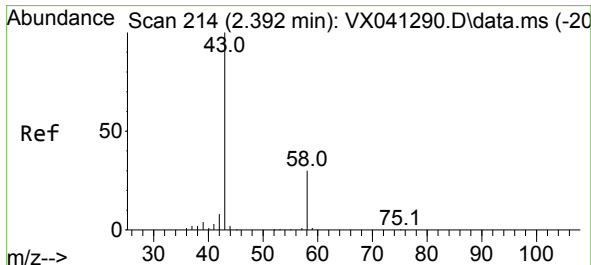
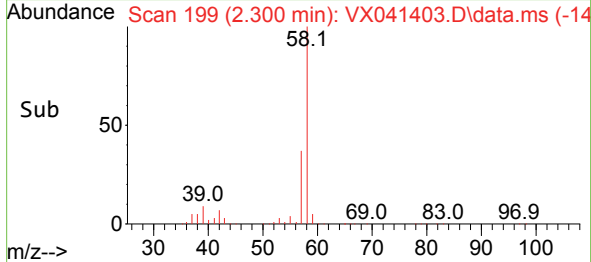
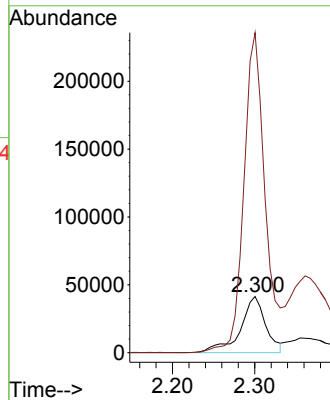
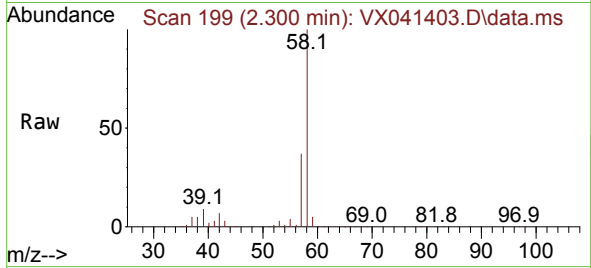
ClientSampleId :

Tgt Ion: 56 Resp: 88882

Ion Ratio Lower Upper

56 100

55 472.3 57.1 85.7#



#16

Acetone

Concen: 1244.975 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX041403.D

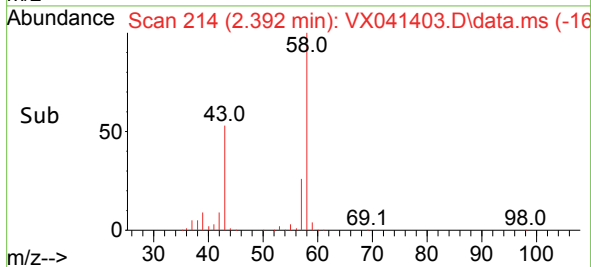
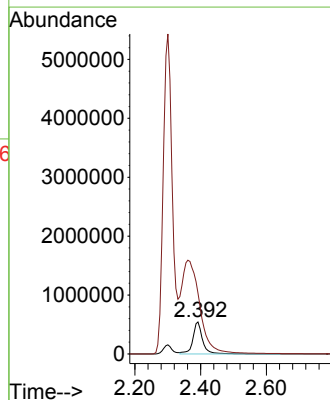
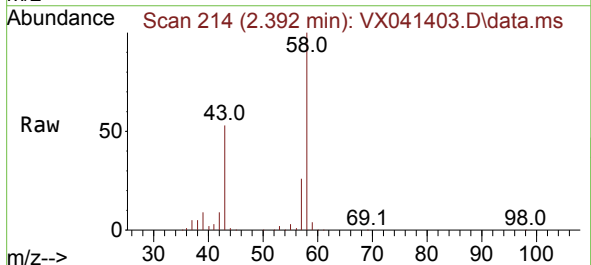
Acq: 07 May 2024 13:54

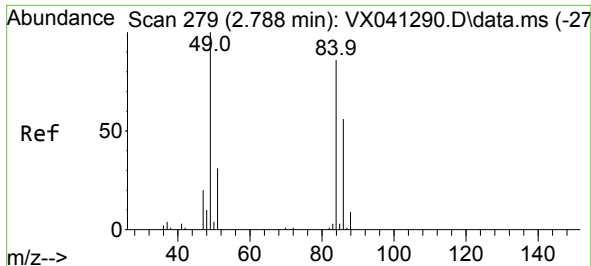
Tgt Ion: 43 Resp: 1099408

Ion Ratio Lower Upper

43 100

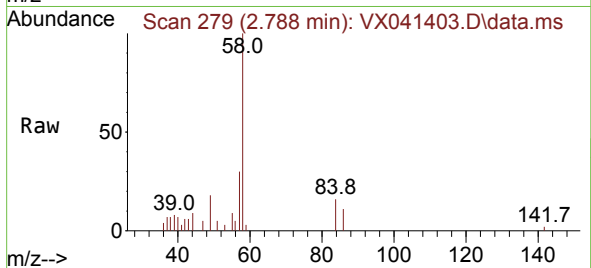
58 188.9 21.9 32.9#





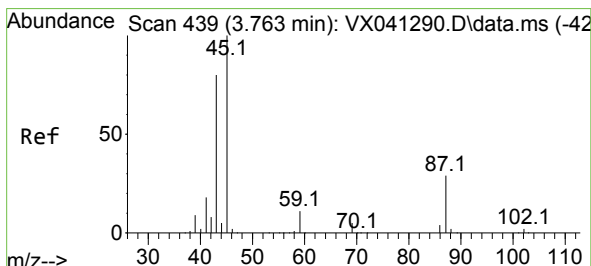
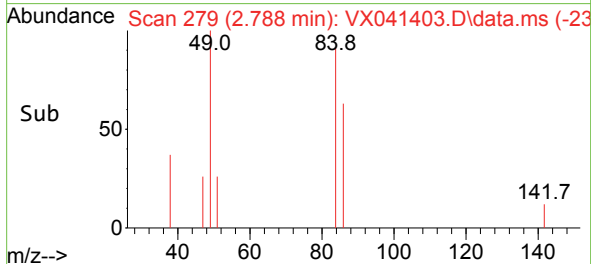
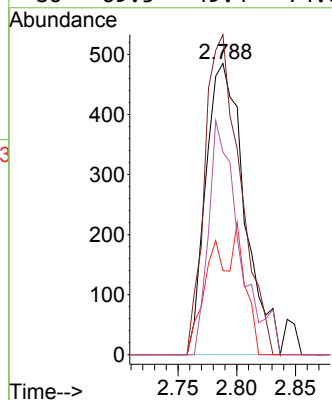
#20  
Methylene Chloride  
Concen: 0.628 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 1107

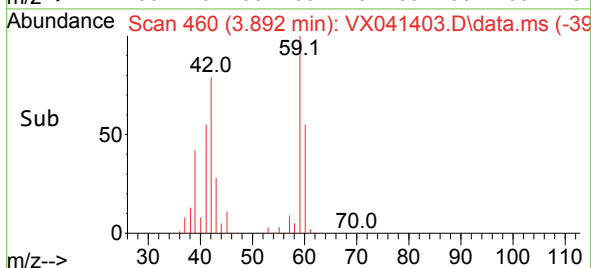
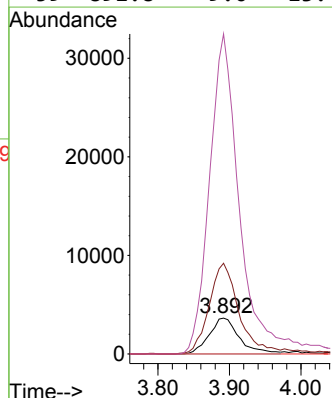
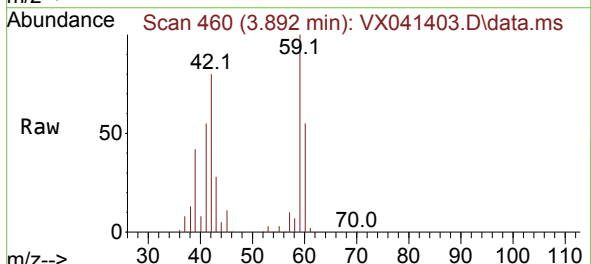
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 109.9 | 103.6 | 155.4 |
| 51  | 28.9  | 33.8  | 50.6# |
| 86  | 69.5  | 49.4  | 74.0  |

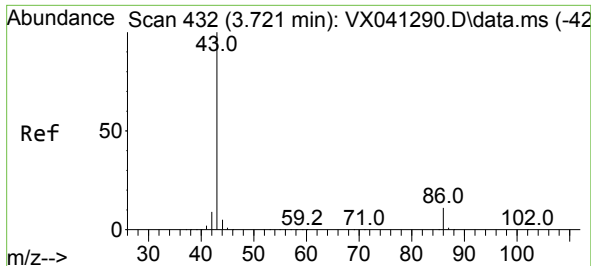


#22  
Diisopropyl ether  
Concen: 2.070 ug/l  
RT: 3.892 min Scan# 460  
Delta R.T. 0.128 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion: 45 Resp: 10653

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 45  | 100   |       |        |
| 43  | 251.0 | 69.7  | 104.5# |
| 87  | 0.0   | 20.8  | 31.2#  |
| 59  | 891.8 | 9.0   | 13.4#  |

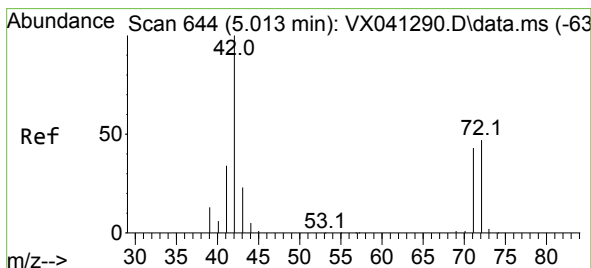
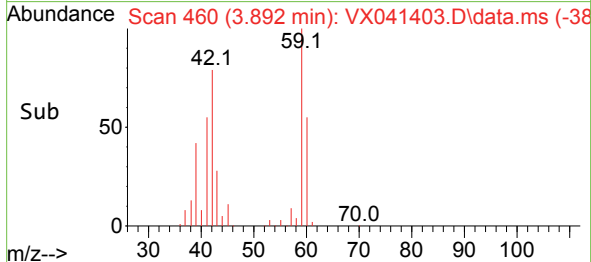
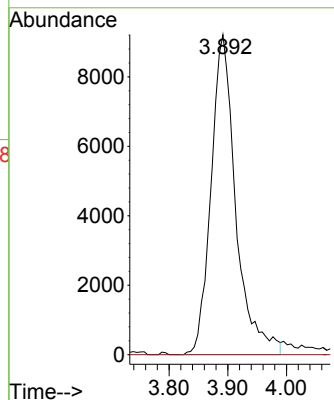
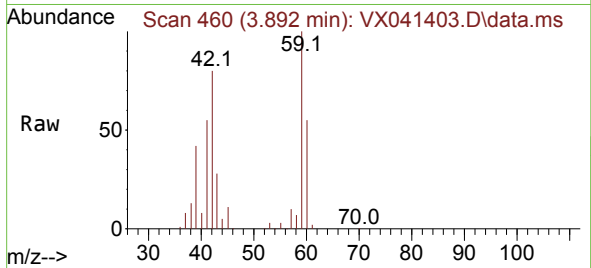




#23  
 Vinyl Acetate  
 Concen: 5.857 ug/l  
 RT: 3.892 min Scan# 41  
 Delta R.T. 0.171 min  
 Lab File: VX041403.D  
 Acq: 07 May 2024 13:54

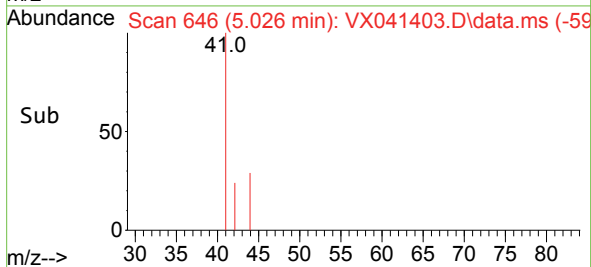
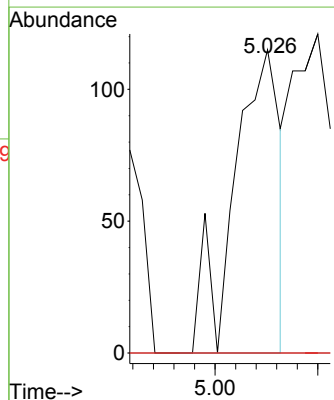
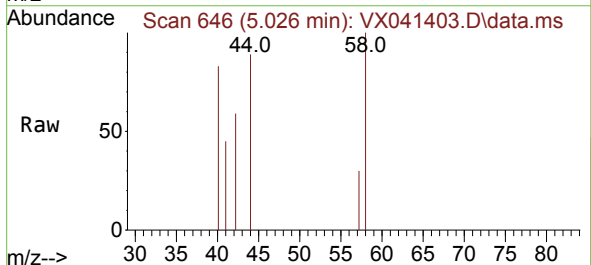
Instrument :  
 MSVOA\_X  
 ClientSampleId :

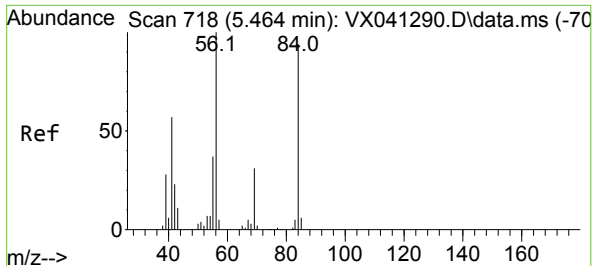
Tgt Ion: 43 Resp: 26965  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 7.8 11.8#



#29  
 Tetrahydrofuran  
 Concen: 0.211 ug/l  
 RT: 5.026 min Scan# 646  
 Delta R.T. 0.012 min  
 Lab File: VX041403.D  
 Acq: 07 May 2024 13:54

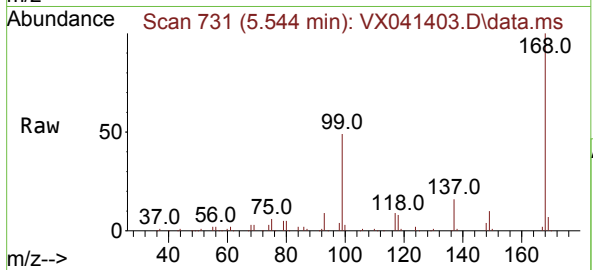
Tgt Ion: 42 Resp: 181  
 Ion Ratio Lower Upper  
 42 100  
 72 0.0 34.2 51.4#  
 71 0.0 32.2 48.2#



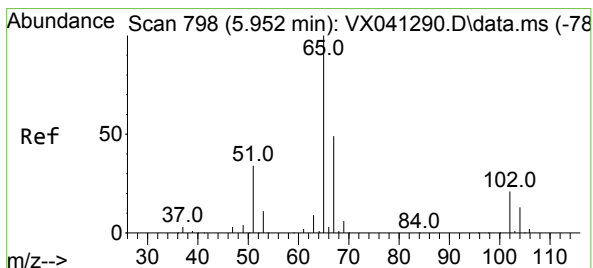
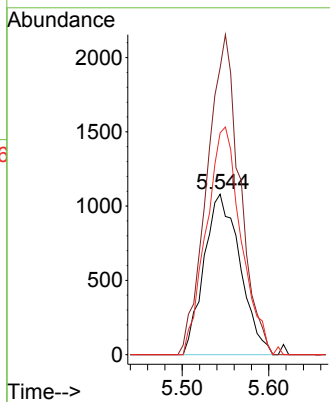
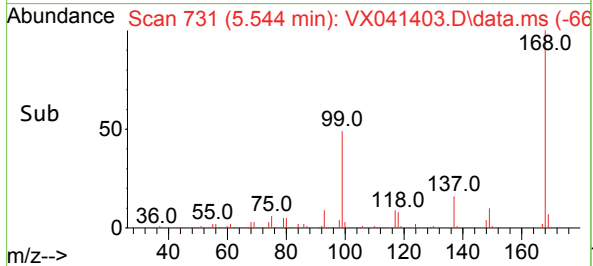


#31  
Cyclohexane  
Concen: 1.271 ug/l  
RT: 5.544 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Instrument :  
MSVOA\_X  
ClientSampleId :

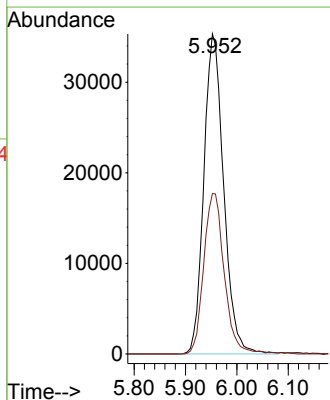
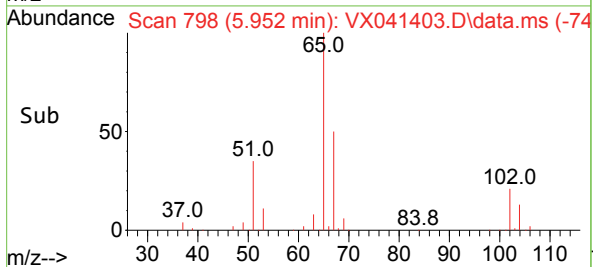
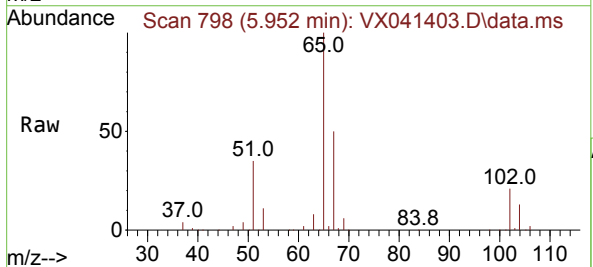


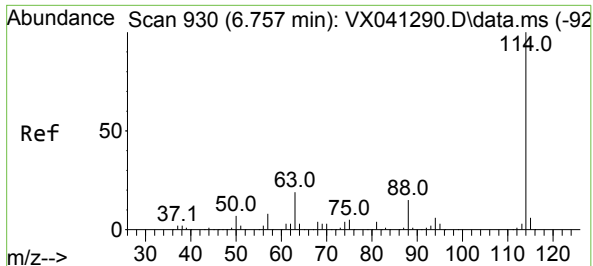
Tgt Ion: 56 Resp: 3116  
Ion Ratio Lower Upper  
56 100  
69 178.7 23.4 35.2#  
84 138.2 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 46.617 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion: 65 Resp: 94666  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 100.2

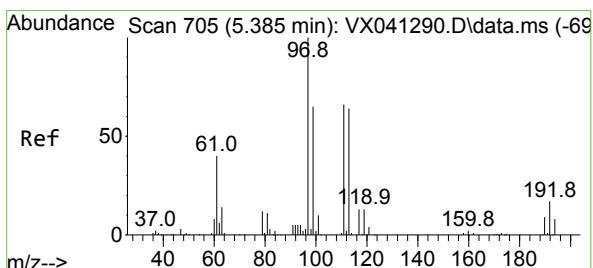
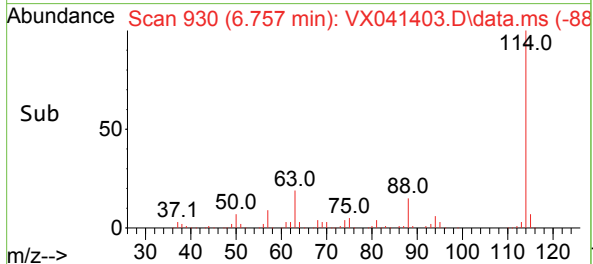
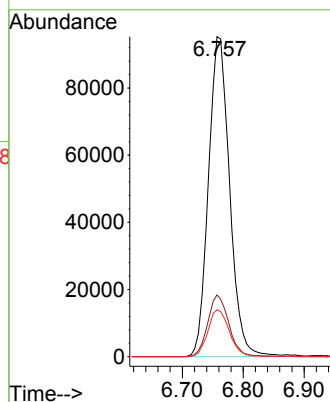
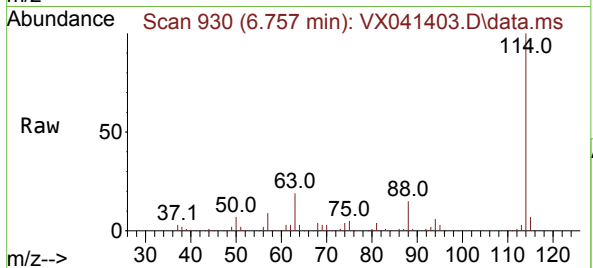




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

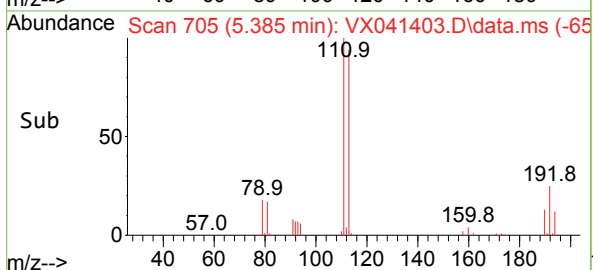
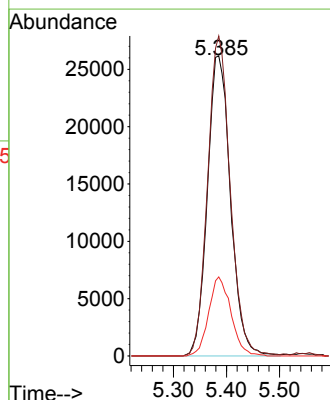
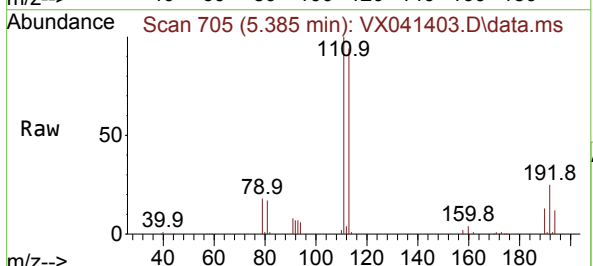
Instrument :  
MSVOA\_X  
ClientSampleId :

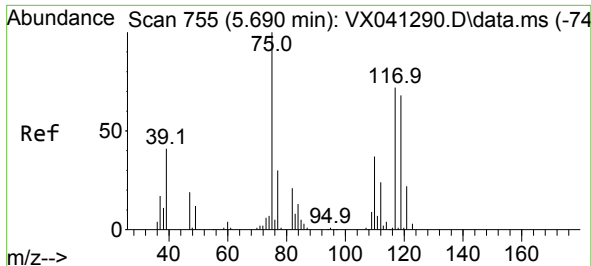
Tgt Ion:114 Resp: 229996  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 45.0  
88 14.7 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 50.906 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion:113 Resp: 79343  
Ion Ratio Lower Upper  
113 100  
111 104.2 82.9 124.3  
192 25.4 13.3 19.9#

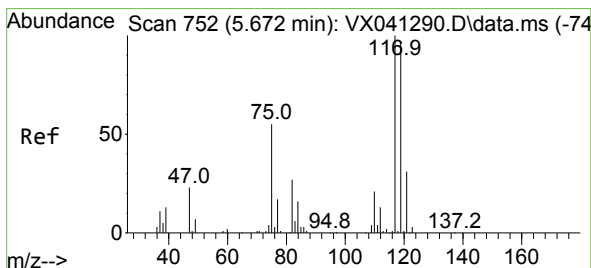
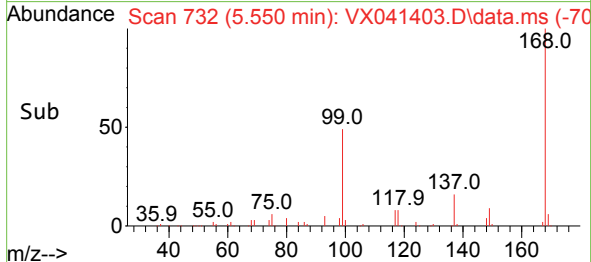
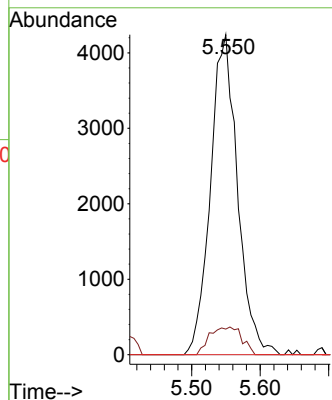
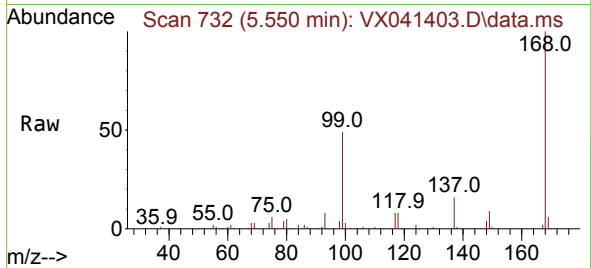




#36  
1,1-Dichloropropene  
Concen: 6.243 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

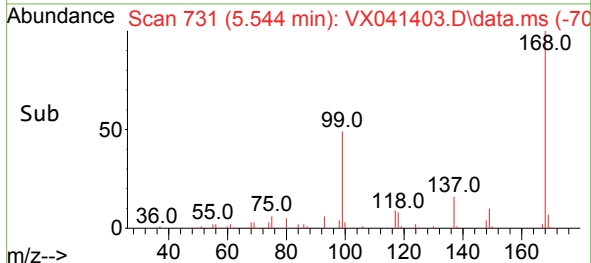
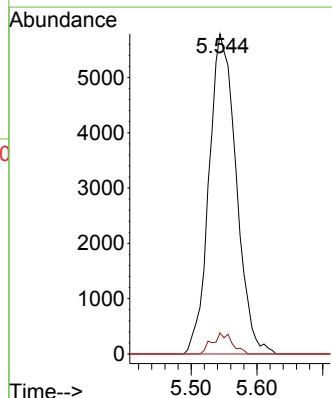
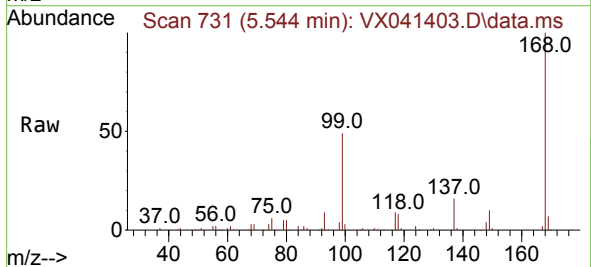
Instrument :  
MSVOA\_X  
ClientSampleId :

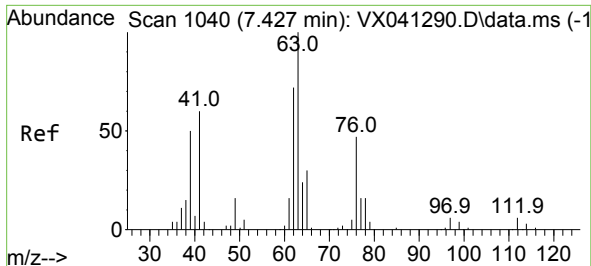
Tgt Ion: 75 Resp: 11635  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 7.801 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion: 117 Resp: 16656  
Ion Ratio Lower Upper  
117 100  
119 6.6 78.2 117.2#  
121 0.0 24.4 36.6#





#45

1,2-Dichloropropane

Concen: 1.114 ug/l

RT: 7.543 min Scan# 1059

Delta R.T. 0.116 min

Lab File: VX041403.D

Acq: 07 May 2024 13:54

Instrument :

MSVOA\_X

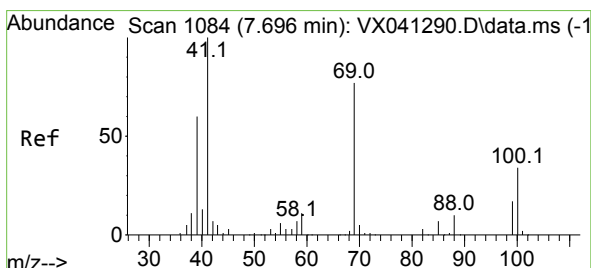
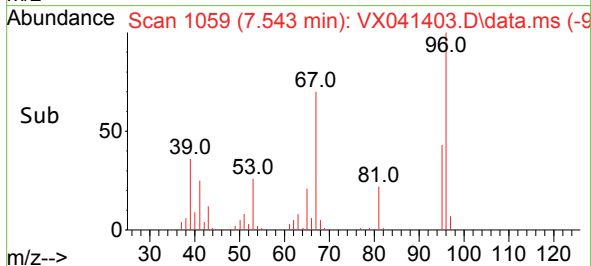
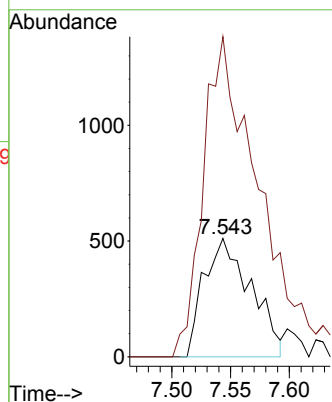
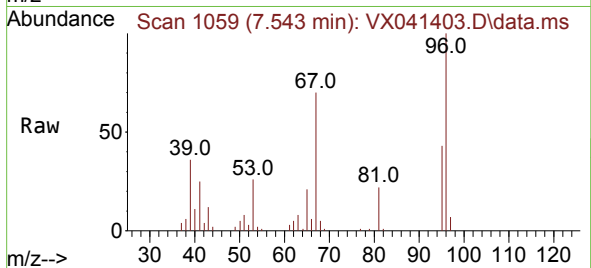
ClientSampleId :

Tgt Ion: 63 Resp: 1430

Ion Ratio Lower Upper

63 100

65 251.5 24.3 36.5#



#48

Methyl methacrylate

Concen: 4.241 ug/l

RT: 7.556 min Scan# 1061

Delta R.T. -0.140 min

Lab File: VX041403.D

Acq: 07 May 2024 13:54

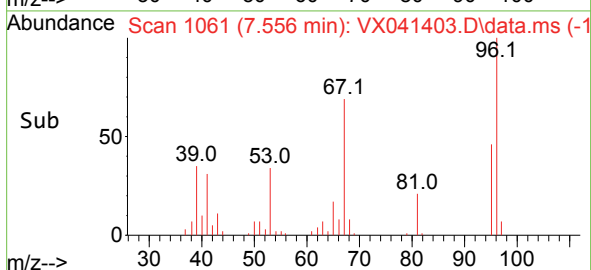
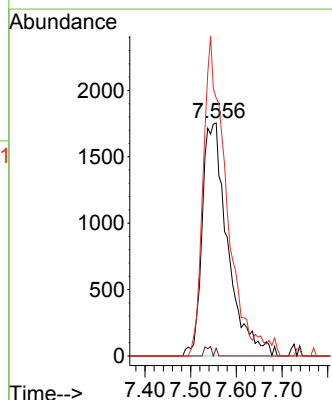
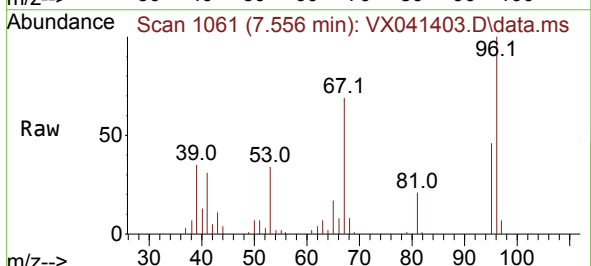
Tgt Ion: 41 Resp: 6798

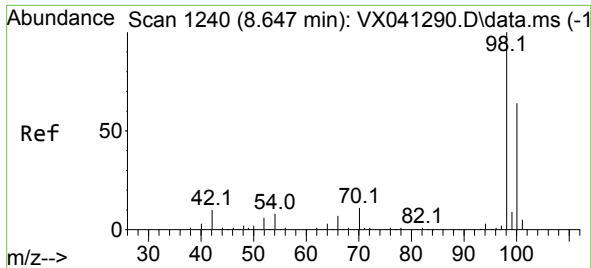
Ion Ratio Lower Upper

41 100

69 1.4 59.2 88.8#

39 120.8 47.7 71.5#

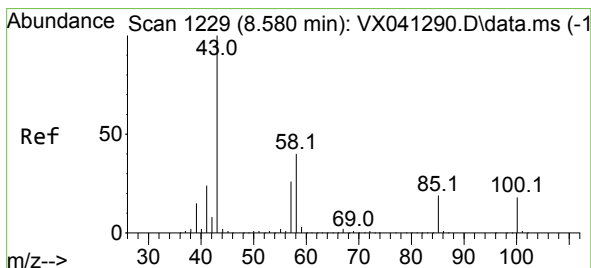
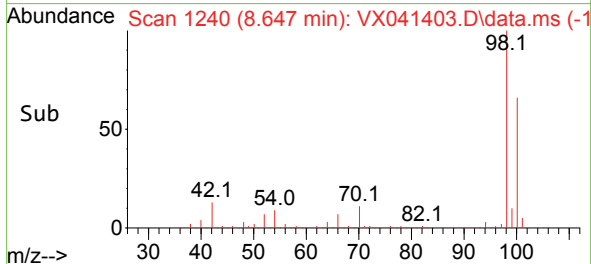
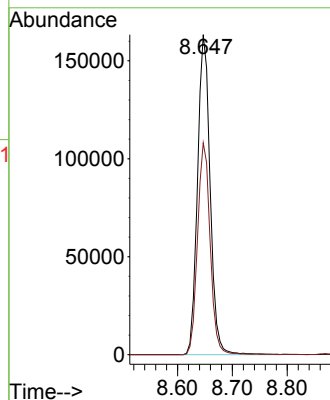
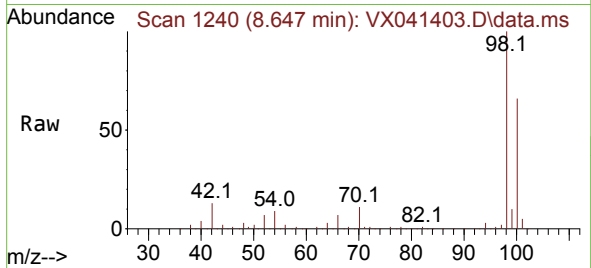




#50  
Toluene-d8  
Concen: 53.134 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

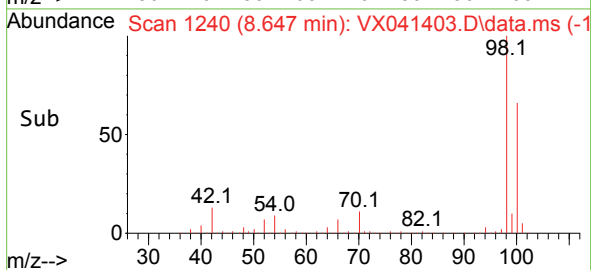
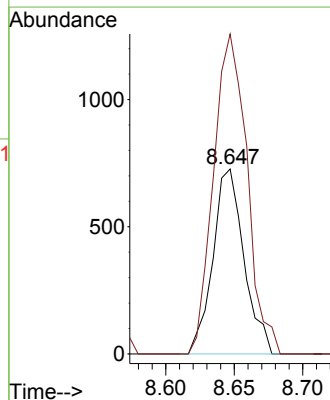
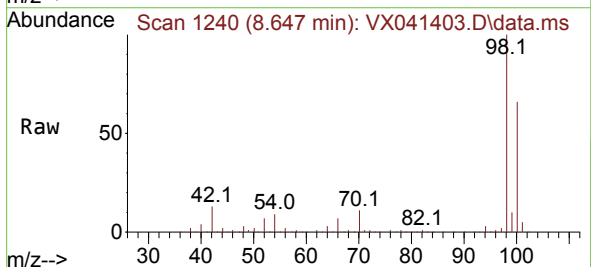
Instrument :  
MSVOA\_X  
ClientSampleId :

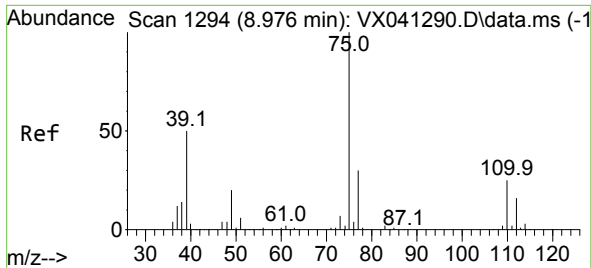
Tgt Ion: 98 Resp: 262117  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.547 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.067 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion: 43 Resp: 1147  
Ion Ratio Lower Upper  
43 100  
58 186.7 30.4 45.6#

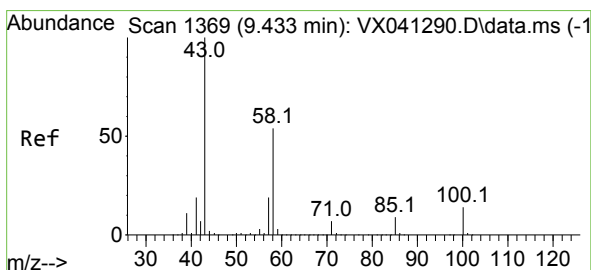
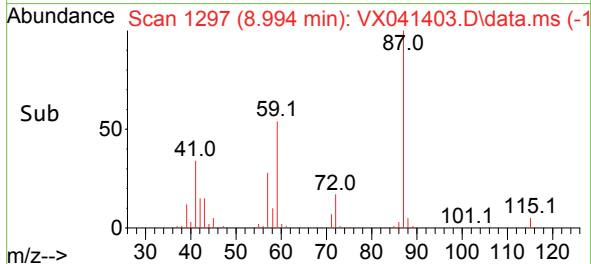
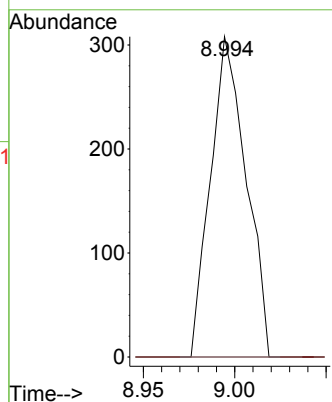
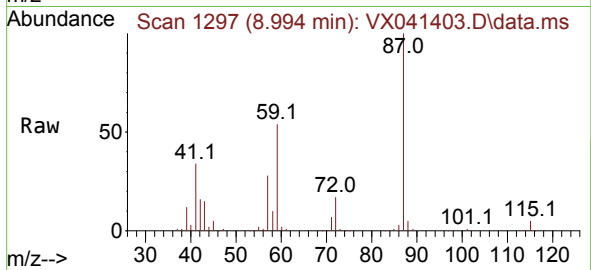




#53  
t-1,3-Dichloropropene  
Concen: 0.232 ug/l  
RT: 8.994 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

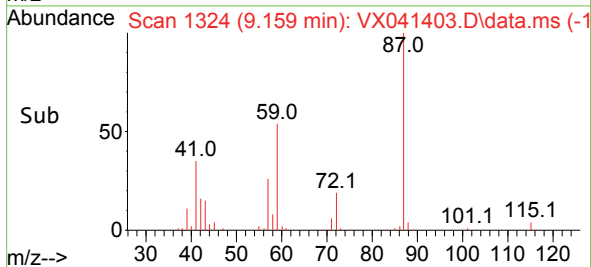
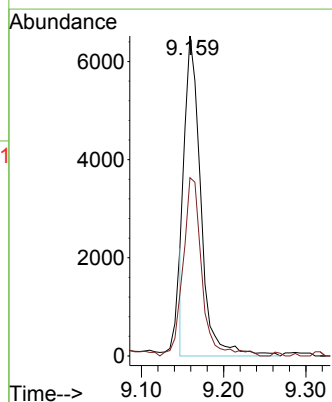
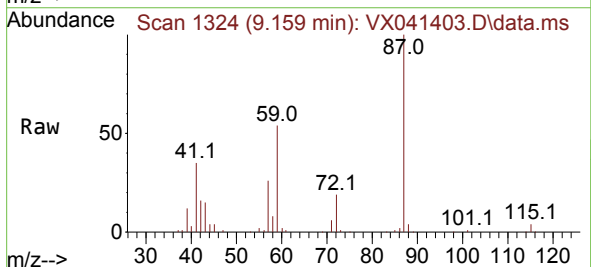
Instrument :  
MSVOA\_X  
ClientSampleId :

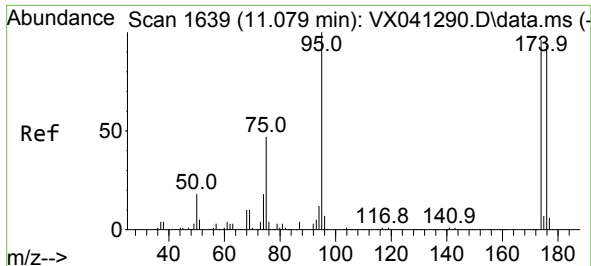
Tgt Ion: 75 Resp: 418  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#



#59  
2-Hexanone  
Concen: 5.284 ug/l  
RT: 9.159 min Scan# 1324  
Delta R.T. -0.274 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion: 43 Resp: 8864  
Ion Ratio Lower Upper  
43 100  
58 57.7 26.2 78.5

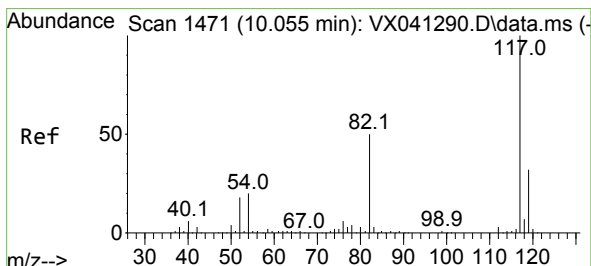
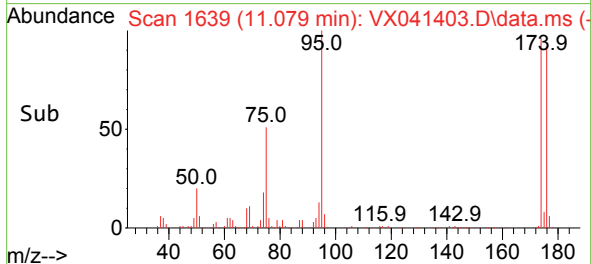
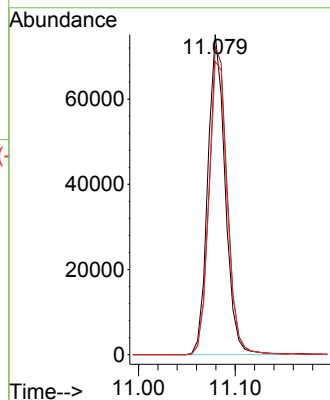
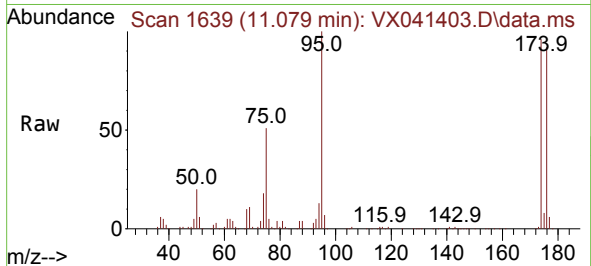




#62  
4-Bromofluorobenzene  
Concen: 49.040 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

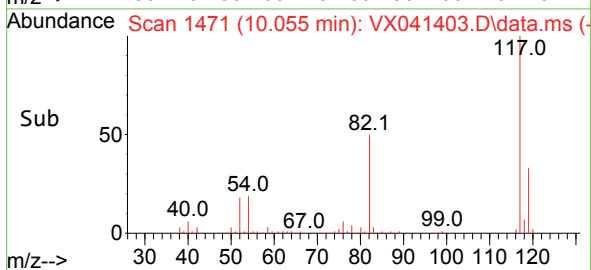
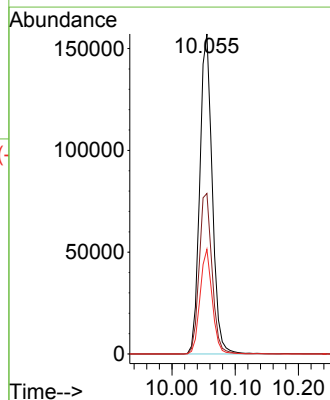
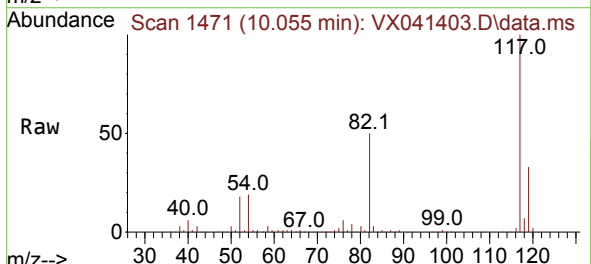
Instrument :  
MSVOA\_X  
ClientSampleId :

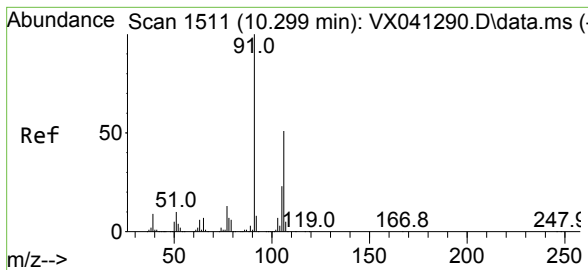
Tgt Ion: 95 Resp: 93650  
Ion Ratio Lower Upper  
95 100  
174 100.8 0.0 135.6  
176 97.1 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion: 117 Resp: 215832  
Ion Ratio Lower Upper  
117 100  
82 50.2 46.2 69.4  
119 32.7 25.5 38.3

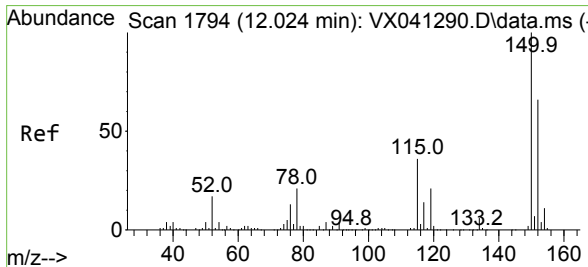
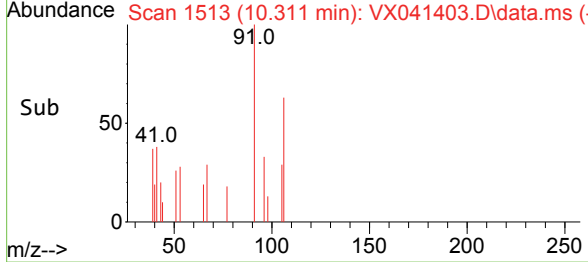
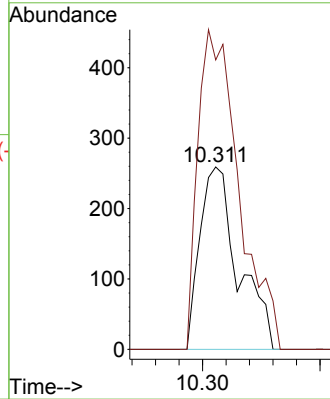
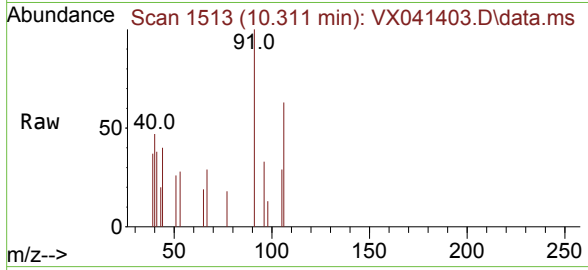




#68  
m/p-Xylenes  
Concen: 0.203 ug/l  
RT: 10.311 min Scan# 1513  
Delta R.T. 0.012 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

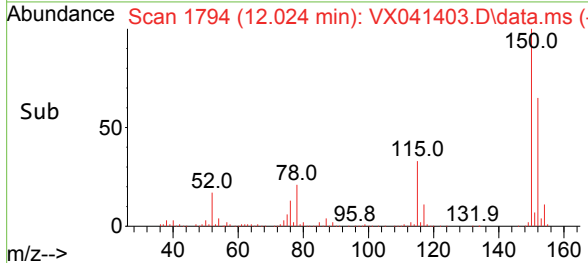
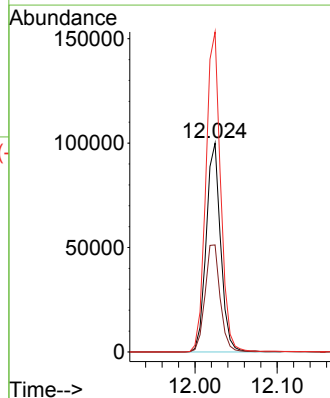
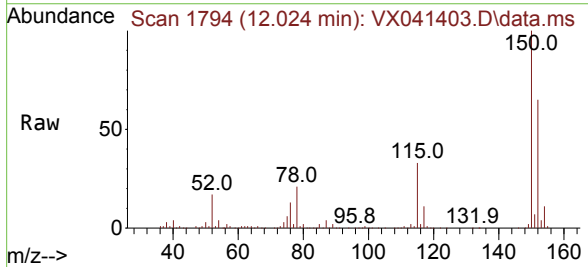
Instrument :  
MSVOA\_X  
ClientSampleId :

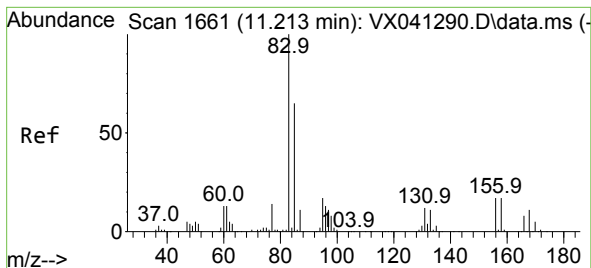
Tgt Ion:106 Resp: 589  
Ion Ratio Lower Upper  
106 100  
91 186.6 165.5 248.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX041403.D  
Acq: 07 May 2024 13:54

Tgt Ion:152 Resp: 122225  
Ion Ratio Lower Upper  
152 100  
115 53.8 43.3 129.9  
150 156.5 0.0 345.0





#75

1,1,2,2-Tetrachloroethane

Concen: 13.085 ug/l

RT: 11.153 min Scan# 1

Delta R.T. -0.061 min

Lab File: VX041403.D

Acq: 07 May 2024 13:54

Instrument :

MSVOA\_X

ClientSampleId :

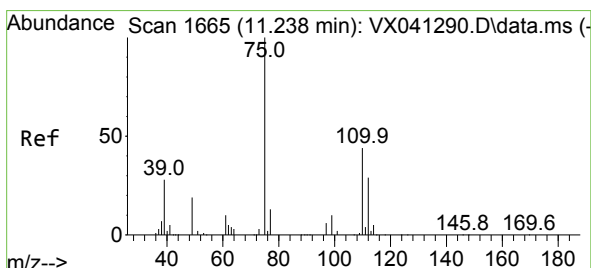
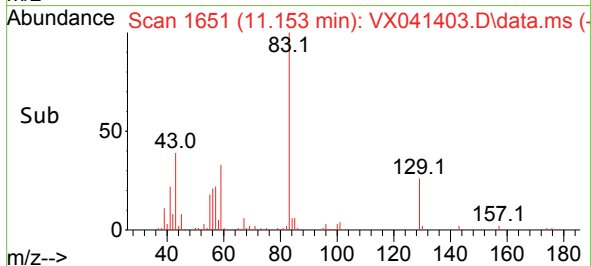
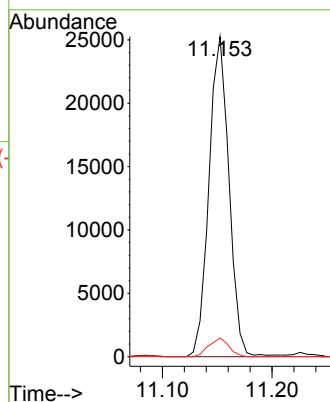
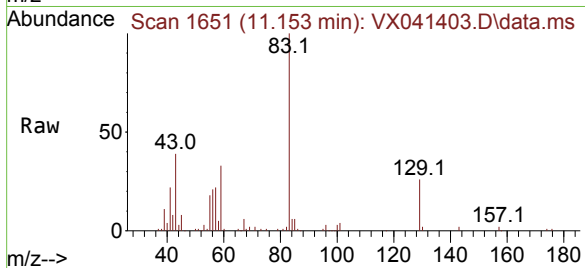
Tgt Ion: 83 Resp: 31990

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

85 5.8 32.0 96.2#



#76

1,2,3-Trichloropropane

Concen: 24.132 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX041403.D

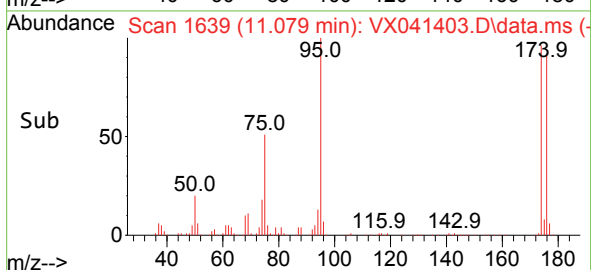
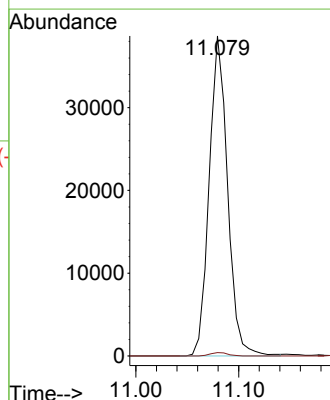
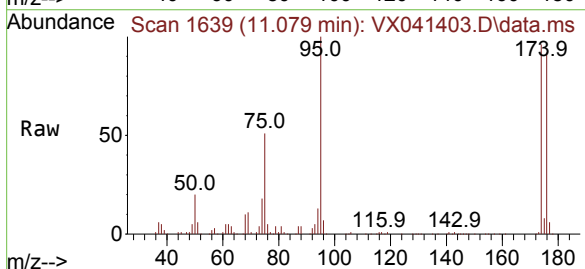
Acq: 07 May 2024 13:54

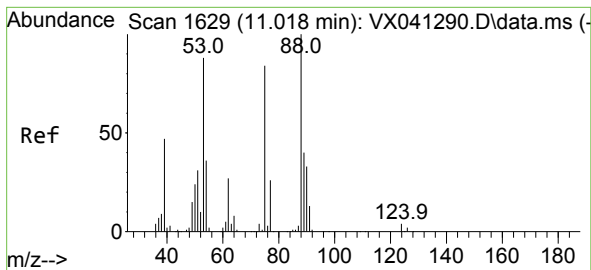
Tgt Ion: 75 Resp: 48069

Ion Ratio Lower Upper

75 100

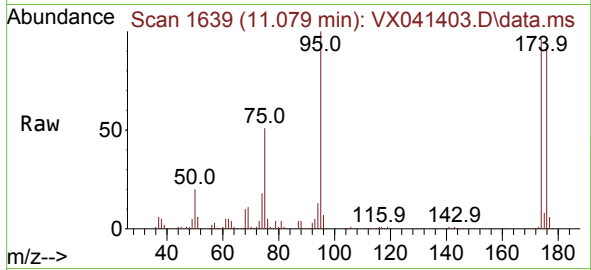
77 1.0 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 65.734 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX041403.D  
 Acq: 07 May 2024 13:54

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 48069  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

