

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX043024\  
 Data File : VX041299.D  
 Acq On : 30 Apr 2024 15:08  
 Operator : JC/MD  
 Sample : P2265-03DL 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 01 02:46:24 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

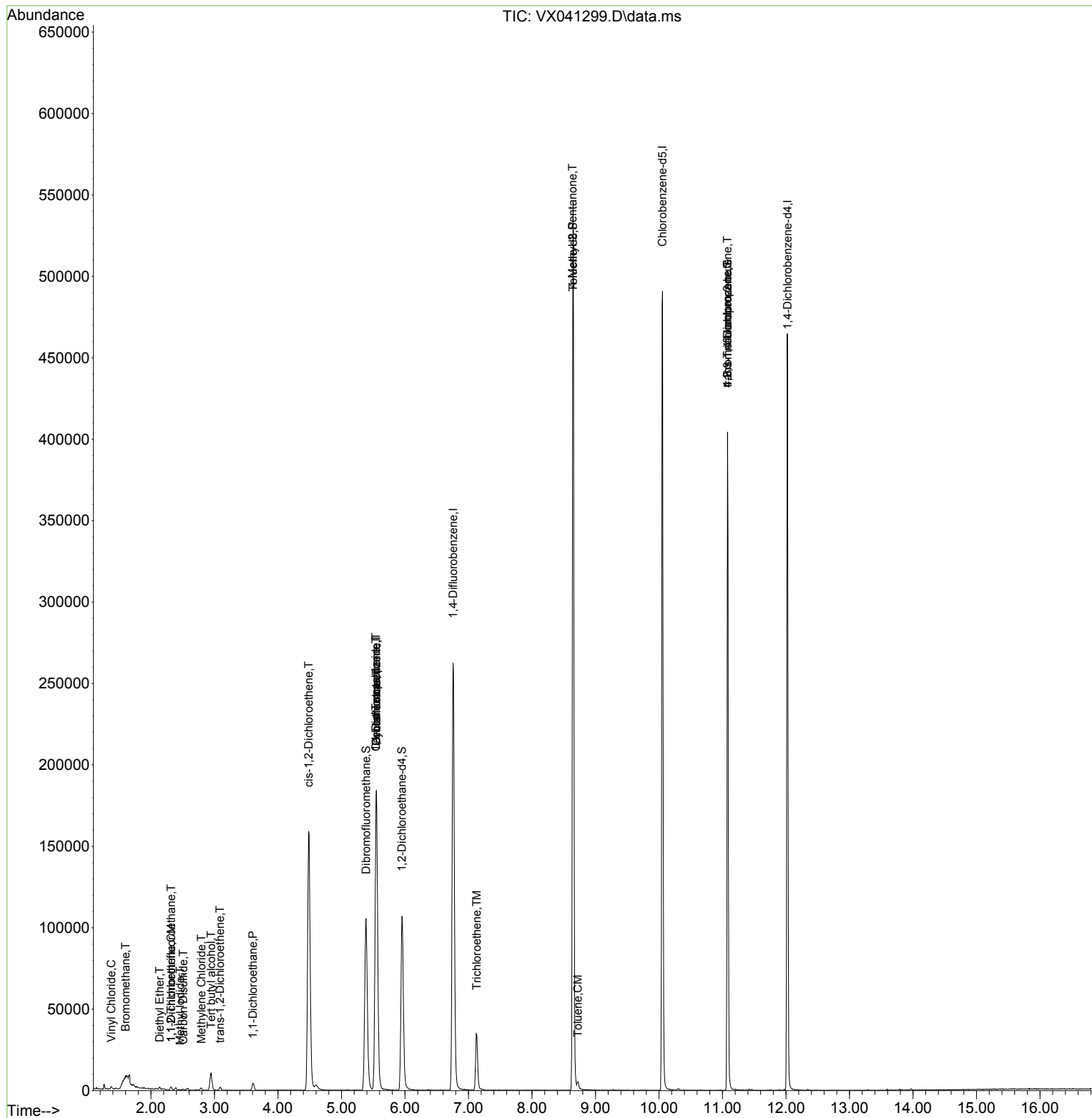
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------|----------|
| -----                         |        |       |          |           |       |          |
| Internal Standards            |        |       |          |           |       |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 198623   | 50.000    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 289718   | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 242070   | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 107170   | 50.000    | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 107379   | 49.660    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =     | 99.320%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 90430    | 46.059    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =     | 92.120%  |
| 50) Toluene-d8                | 8.647  | 98    | 329422   | 53.012    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =     | 106.020% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 97082    | 40.358    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =     | 80.720%# |
| Target Compounds              |        |       |          |           |       |          |
|                               |        |       |          |           |       | Qvalue   |
| 4) Vinyl Chloride             | 1.374  | 62    | 707      | 0.439     | ug/l  | # 81     |
| 5) Bromomethane               | 1.599  | 94    | 507      | 0.502     | ug/l  | 93       |
| 8) Diethyl Ether              | 2.136  | 74    | 388      | 0.397     | ug/l  | # 39     |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319  | 101   | 426      | 0.273     | ug/l  | 89       |
| 10) Methyl Iodide             | 2.459  | 142   | 377      | 0.224     | ug/l  | # 80     |
| 11) Tert butyl alcohol        | 2.947  | 59    | 6326     | 14.617    | ug/l  | # 78     |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 474      | 0.308     | ug/l  | # 39     |
| 16) Acetone                   | 2.392  | 43    | 1589     | Below Cal |       | 91       |
| 17) Carbon Disulfide          | 2.508  | 76    | 857      | 0.237     | ug/l  | # 76     |
| 20) Methylene Chloride        | 2.794  | 84    | 715      | 0.381     | ug/l  | # 71     |
| 21) trans-1,2-Dichloroethene  | 3.087  | 96    | 905      | 0.526     | ug/l  | # 71     |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 5108     | 1.650     | ug/l  | # 93     |
| 27) cis-1,2-Dichloroethene    | 4.483  | 96    | 106080   | 52.086    | ug/l  | 81       |
| 31) Cyclohexane               | 5.550  | 56    | 3148     | 1.206     | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 12005    | 5.114     | ug/l  | # 51     |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 17123    | 6.367     | ug/l  | # 14     |
| 44) Trichloroethene           | 7.129  | 130   | 15783    | 8.259     | ug/l  | 80       |
| 51) 4-Methyl-2-Pentanone      | 8.641  | 43    | 1409     | 0.533     | ug/l  | # 1      |
| 52) Toluene                   | 8.720  | 92    | 2015     | 0.455     | ug/l  | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 49804    | 28.516    | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 49804    | 77.674    | ug/l  | # 5      |
| -----                         |        |       |          |           |       |          |

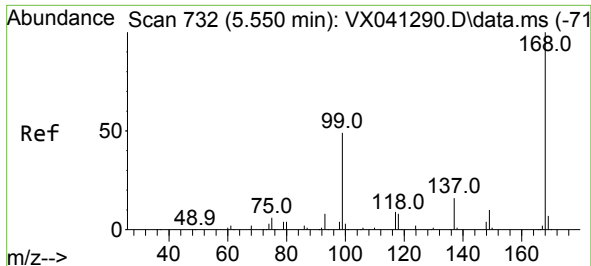
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX043024\  
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Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: May 01 02:46:24 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

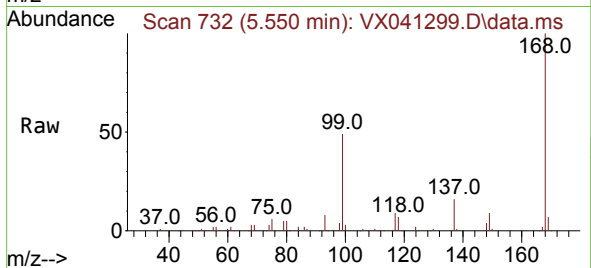
Lab File: VX041299.D

Acq: 30 Apr 2024 15:08

Instrument :

MSVOA\_X

ClientSampleId :

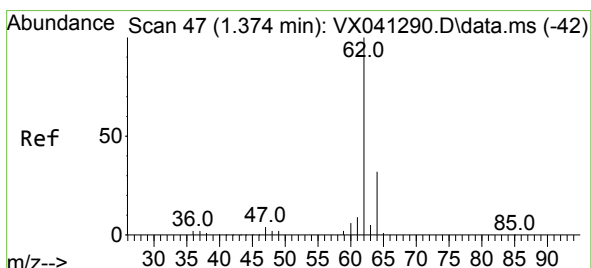
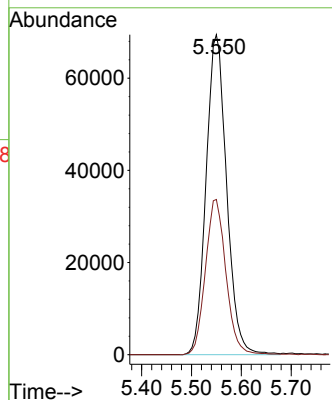
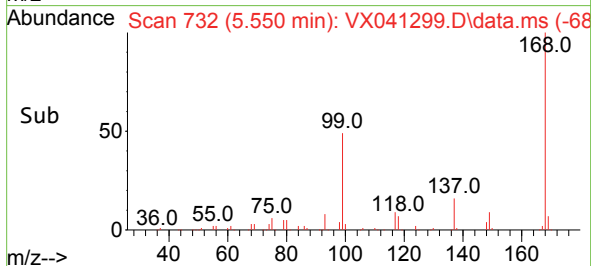


Tgt Ion:168 Resp: 198623

Ion Ratio Lower Upper

168 100

99 48.5 56.6 85.0#



#4

Vinyl Chloride

Concen: 0.439 ug/l

RT: 1.374 min Scan# 47

Delta R.T. 0.000 min

Lab File: VX041299.D

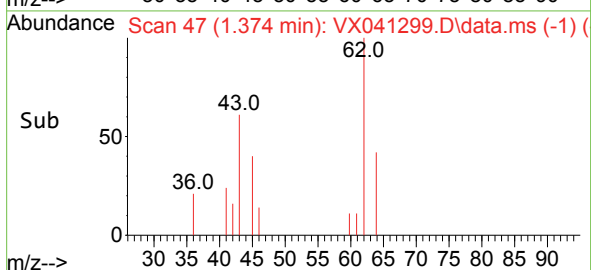
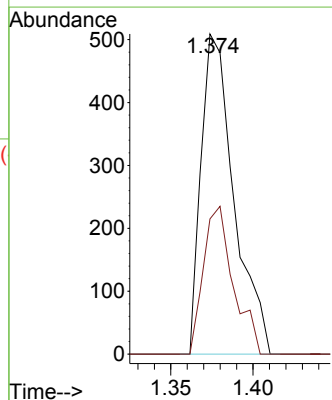
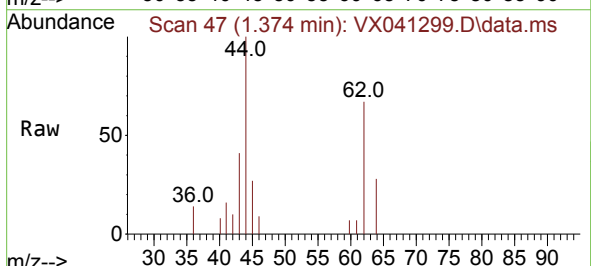
Acq: 30 Apr 2024 15:08

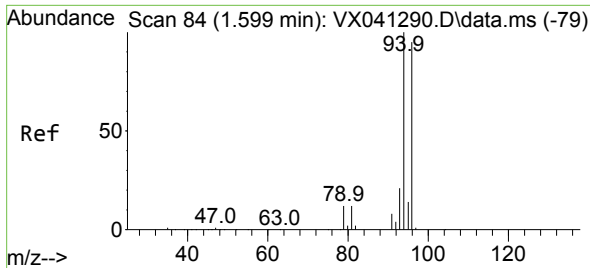
Tgt Ion: 62 Resp: 707

Ion Ratio Lower Upper

62 100

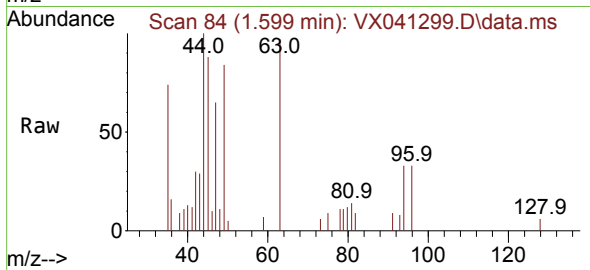
64 42.2 25.4 38.0#



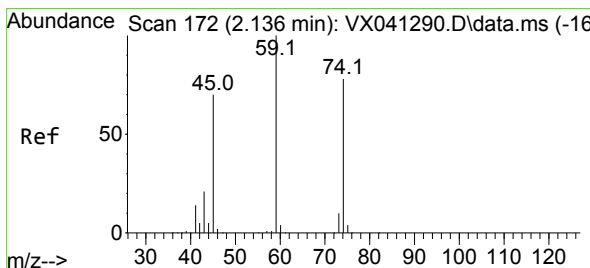
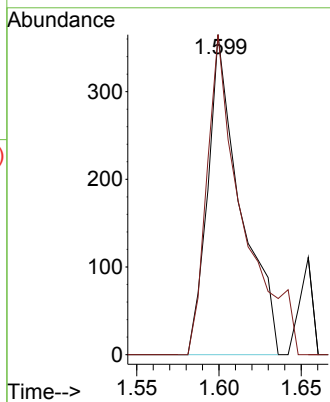
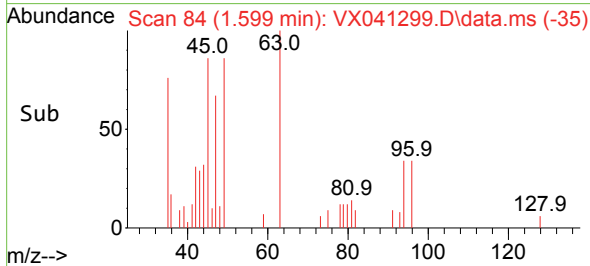


#5  
Bromomethane  
Concen: 0.502 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Instrument :  
MSVOA\_X  
ClientSampleId :

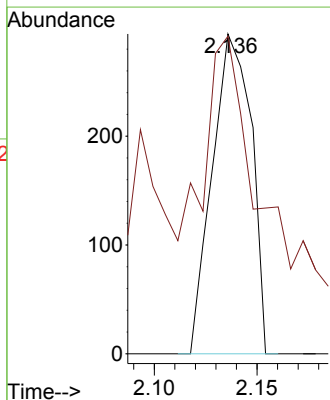
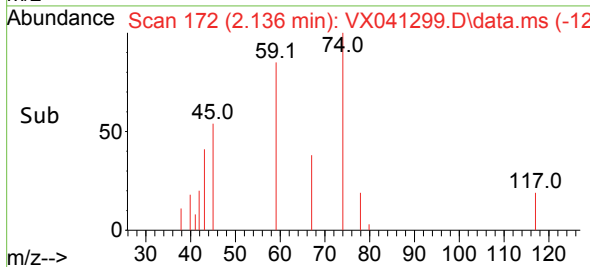
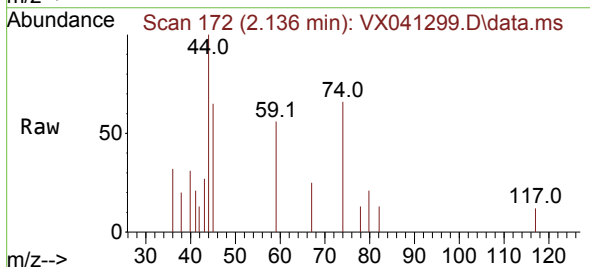


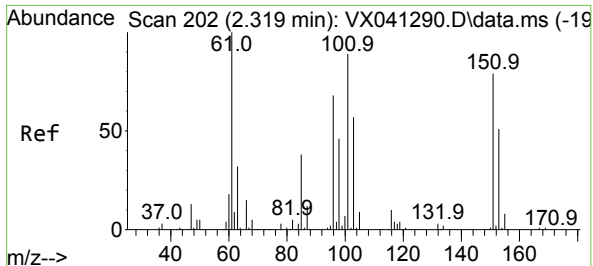
Tgt Ion: 94 Resp: 507  
Ion Ratio Lower Upper  
94 100  
96 100.0 74.6 111.8



#8  
Diethyl Ether  
Concen: 0.397 ug/l  
RT: 2.136 min Scan# 172  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

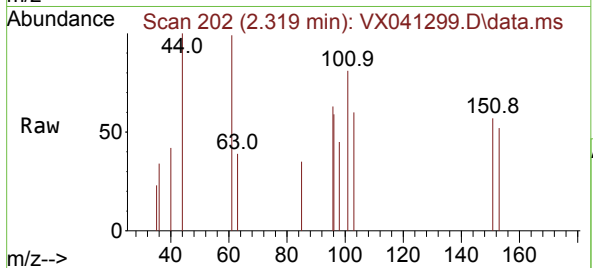
Tgt Ion: 74 Resp: 388  
Ion Ratio Lower Upper  
74 100  
45 169.8 53.3 159.8#



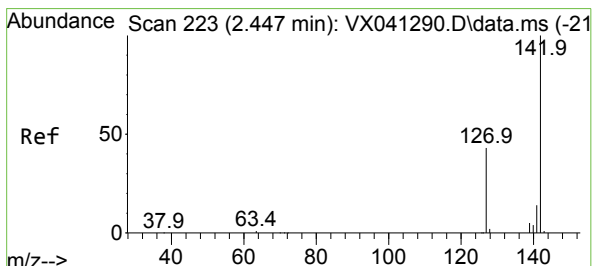
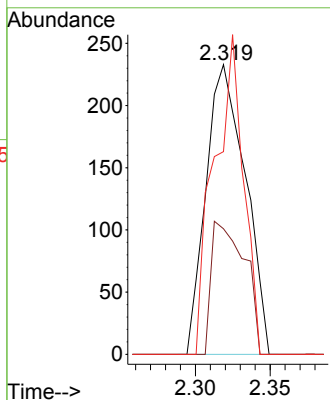
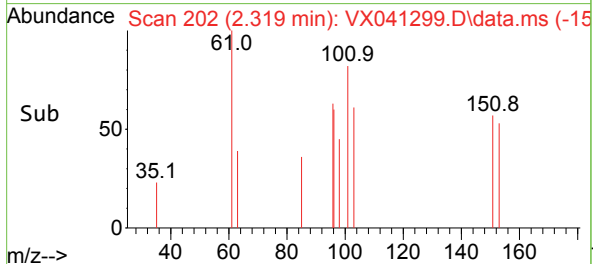


#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.273 ug/l  
RT: 2.319 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

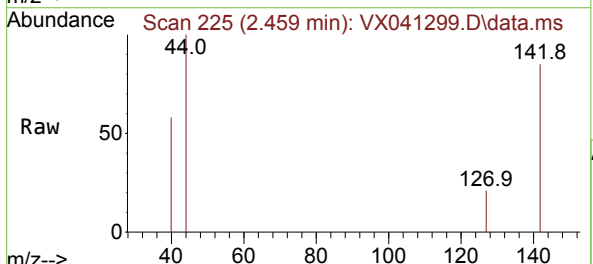
Instrument :  
MSVOA\_X  
ClientSampleId :



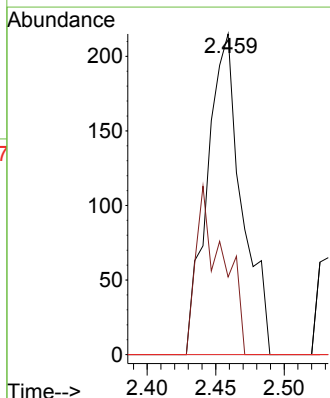
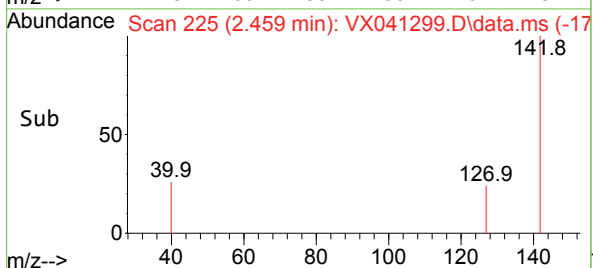
Tgt Ion:101 Resp: 426  
Ion Ratio Lower Upper  
101 100  
85 38.7 37.0 55.6  
151 81.9 58.6 87.8

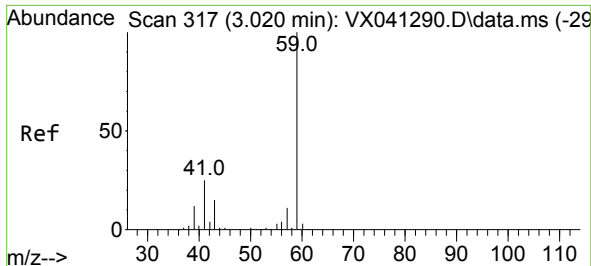


#10  
Methyl Iodide  
Concen: 0.224 ug/l  
RT: 2.459 min Scan# 225  
Delta R.T. 0.012 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08



Tgt Ion:142 Resp: 377  
Ion Ratio Lower Upper  
142 100  
127 41.1 41.6 62.4#  
141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 14.617 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.073 min

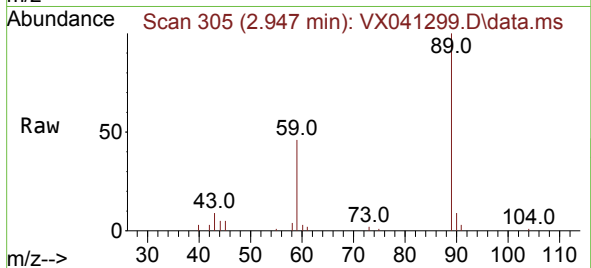
Lab File: VX041299.D

Acq: 30 Apr 2024 15:08

Instrument :

MSVOA\_X

ClientSampleId :

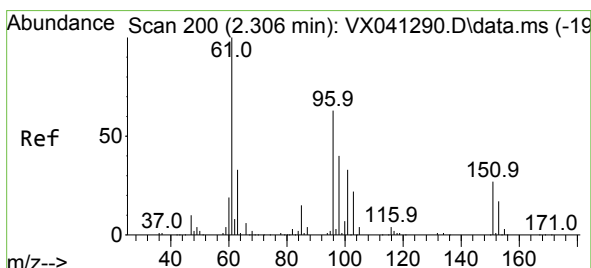
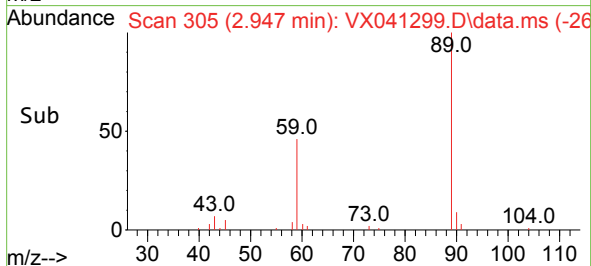
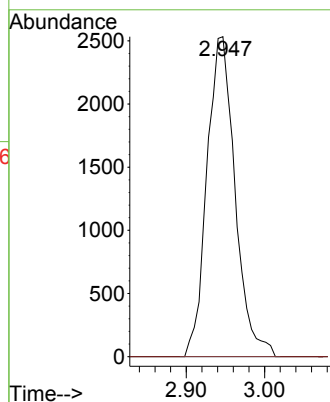


Tgt Ion: 59 Resp: 6326

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#12

1,1-Dichloroethene

Concen: 0.308 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.012 min

Lab File: VX041299.D

Acq: 30 Apr 2024 15:08

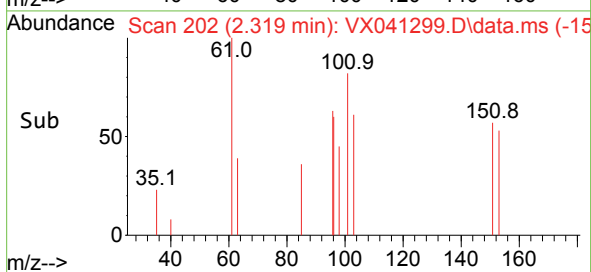
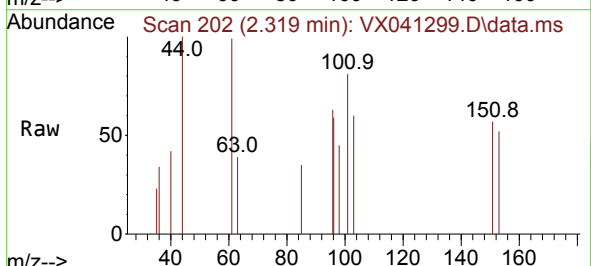
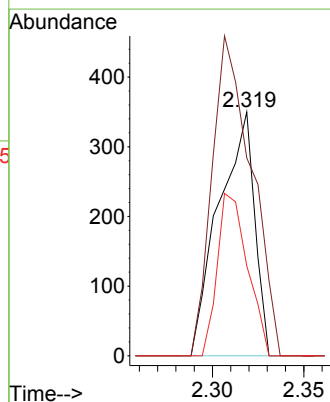
Tgt Ion: 96 Resp: 474

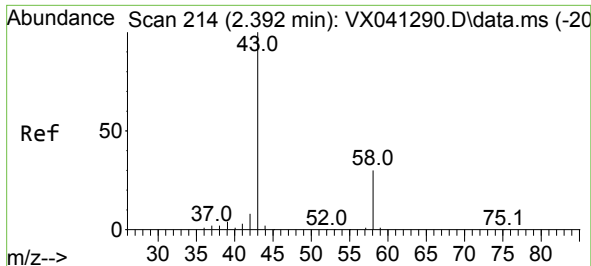
Ion Ratio Lower Upper

96 100

61 81.1 144.6 216.8#

98 36.9 50.4 75.6#





#16

Acetone

Concen: Below Cal

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX041299.D

Acq: 30 Apr 2024 15:08

Instrument :

MSVOA\_X

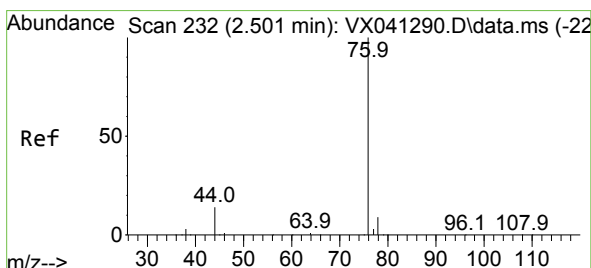
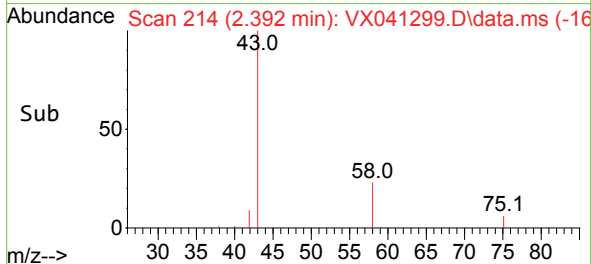
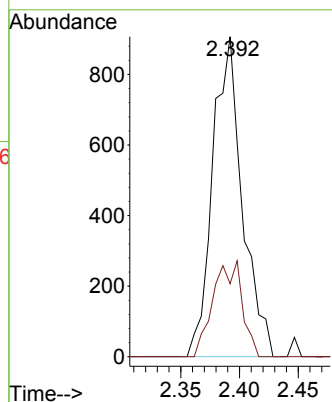
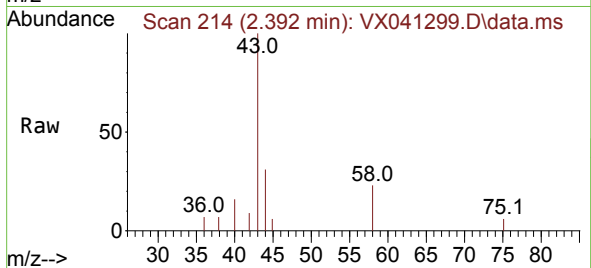
ClientSampleId :

Tgt Ion: 43 Resp: 1589

Ion Ratio Lower Upper

43 100

58 22.8 21.9 32.9



#17

Carbon Disulfide

Concen: 0.237 ug/l

RT: 2.508 min Scan# 233

Delta R.T. 0.007 min

Lab File: VX041299.D

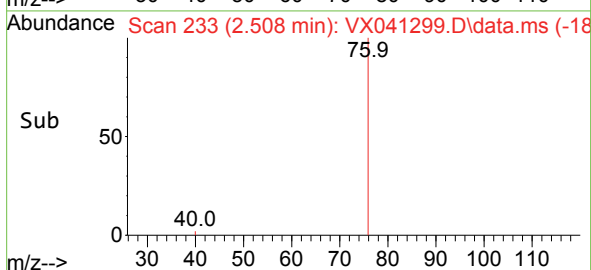
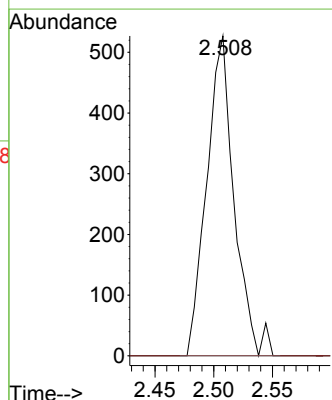
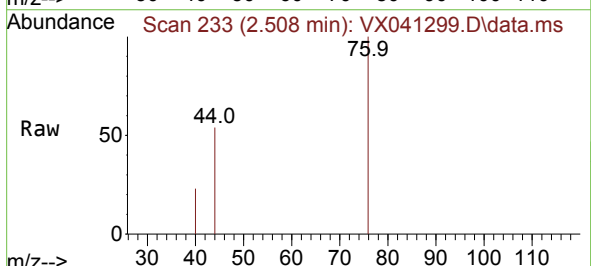
Acq: 30 Apr 2024 15:08

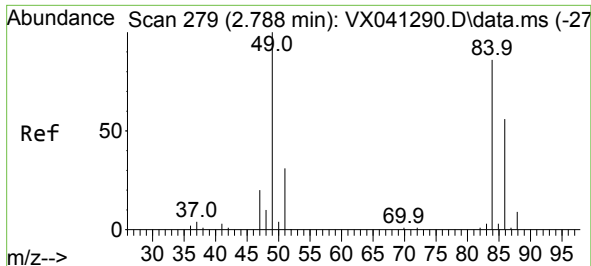
Tgt Ion: 76 Resp: 857

Ion Ratio Lower Upper

76 100

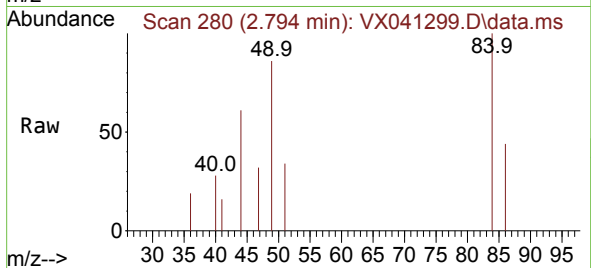
78 0.0 7.0 10.6#





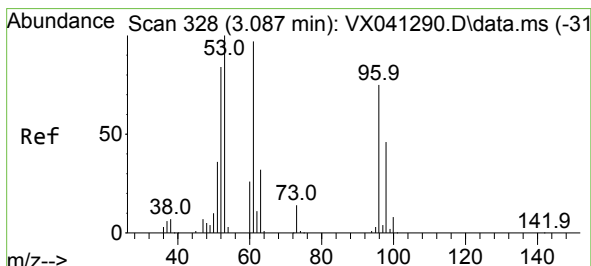
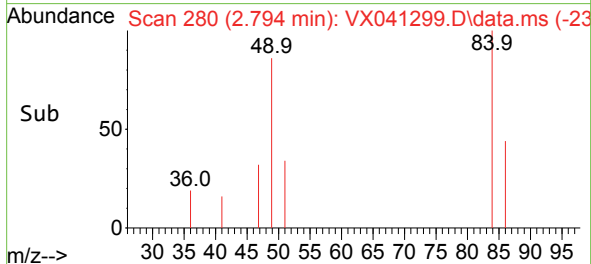
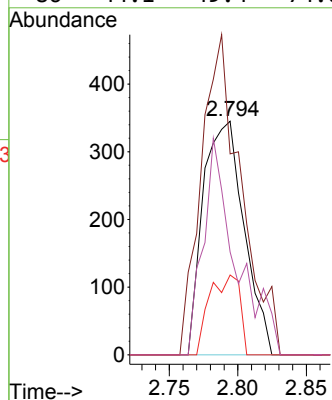
#20  
Methylene Chloride  
Concen: 0.381 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 715

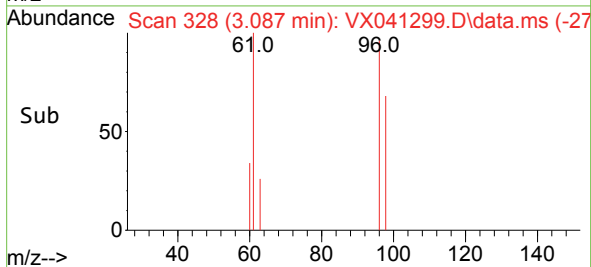
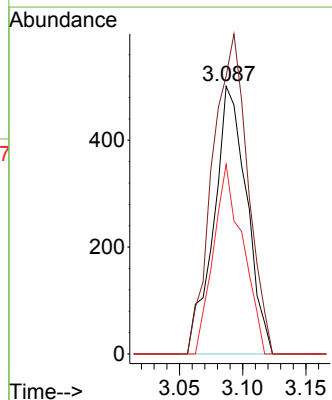
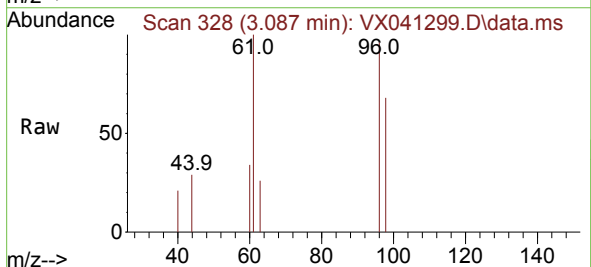
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 86.1  | 103.6 | 155.4# |
| 51  | 34.2  | 33.8  | 50.6   |
| 86  | 44.1  | 49.4  | 74.0#  |



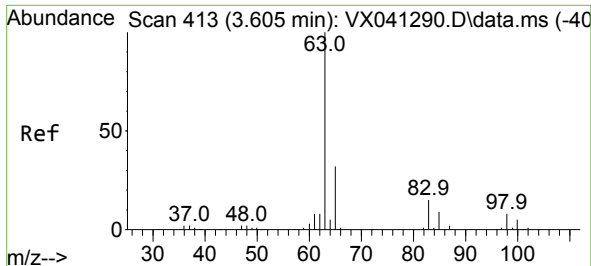
#21  
trans-1,2-Dichloroethene  
Concen: 0.526 ug/l  
RT: 3.087 min Scan# 328  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Tgt Ion: 96 Resp: 905

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 96  | 100   |       |        |
| 61  | 103.8 | 119.2 | 178.8# |
| 98  | 70.9  | 48.7  | 73.1   |



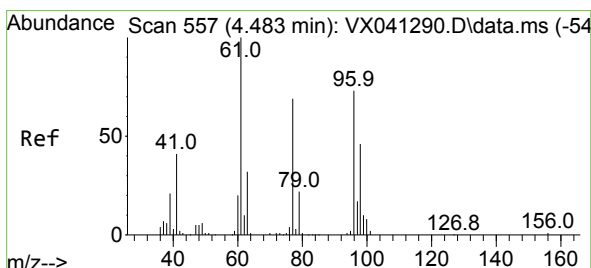
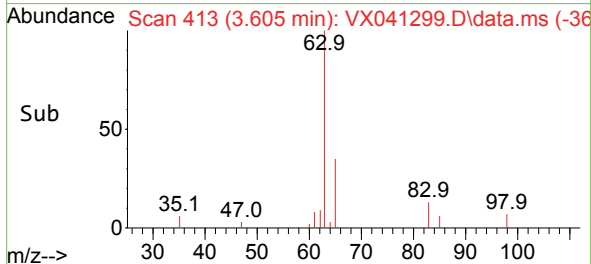
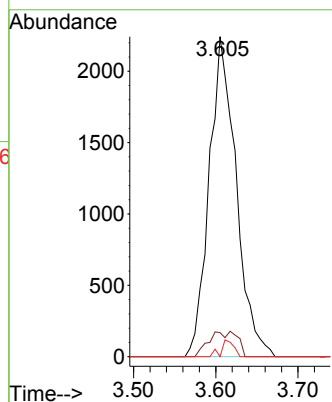
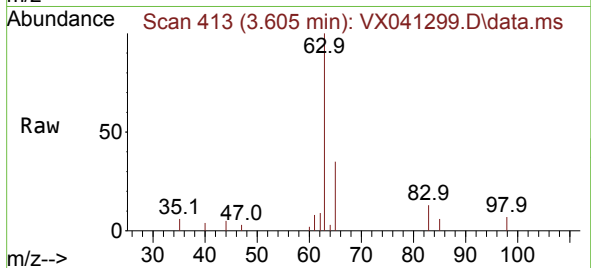




#24  
1,1-Dichloroethane  
Concen: 1.650 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

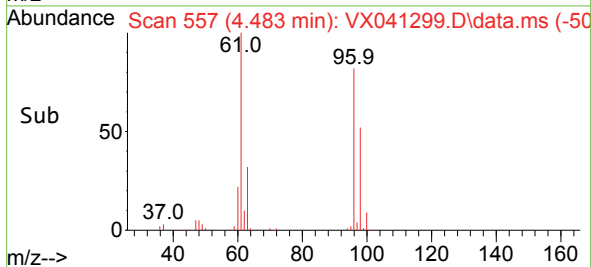
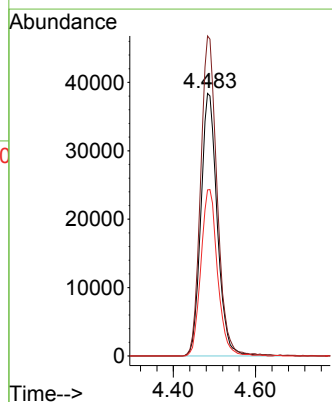
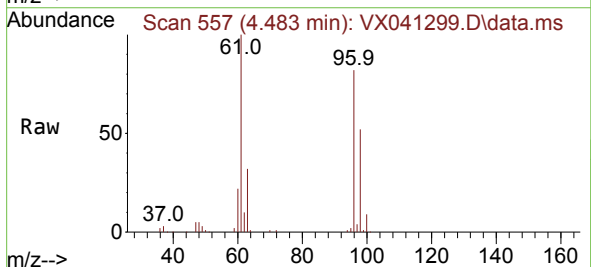
Instrument :  
MSVOA\_X  
ClientSampleId :

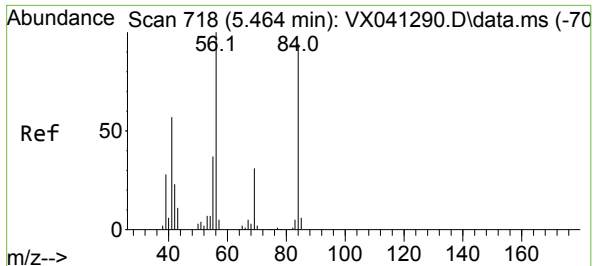
Tgt Ion: 63 Resp: 5108  
Ion Ratio Lower Upper  
63 100  
98 7.5 3.3 9.8  
100 0.0 2.1 6.5#



#27  
cis-1,2-Dichloroethene  
Concen: 52.086 ug/l  
RT: 4.483 min Scan# 557  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

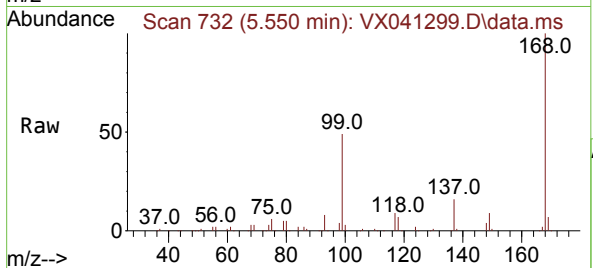
Tgt Ion: 96 Resp: 106080  
Ion Ratio Lower Upper  
96 100  
61 122.3 0.0 312.2  
98 64.1 0.0 129.0



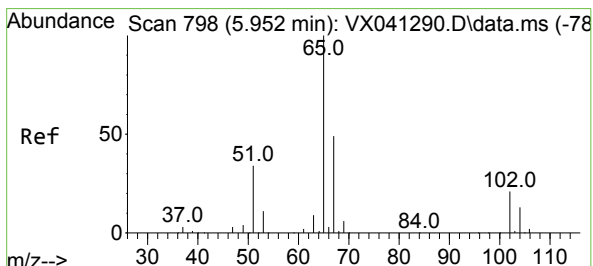
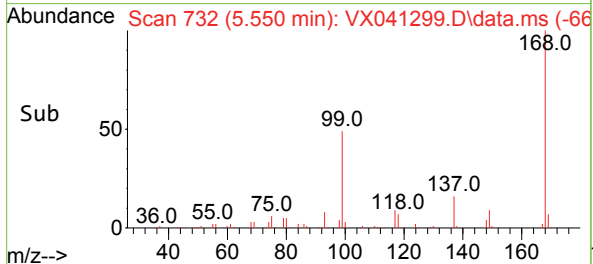
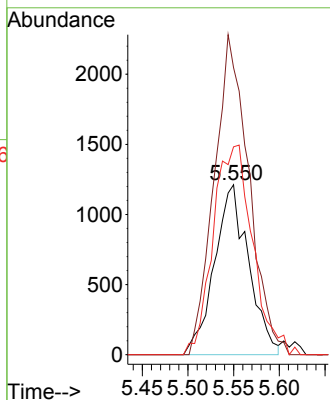


#31  
Cyclohexane  
Concen: 1.206 ug/l  
RT: 5.550 min Scan# 718  
Delta R.T. 0.086 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Instrument :  
MSVOA\_X  
ClientSampleId :

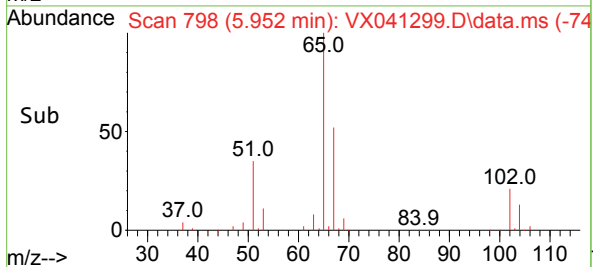
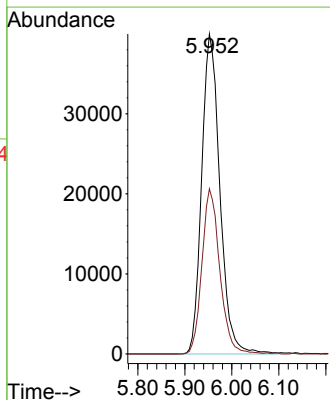
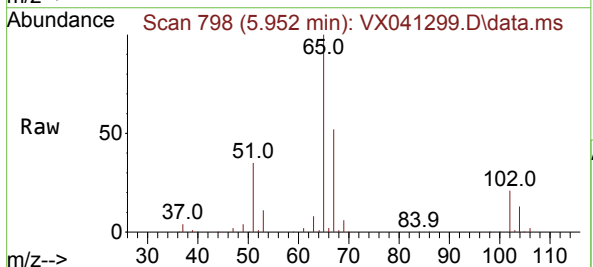


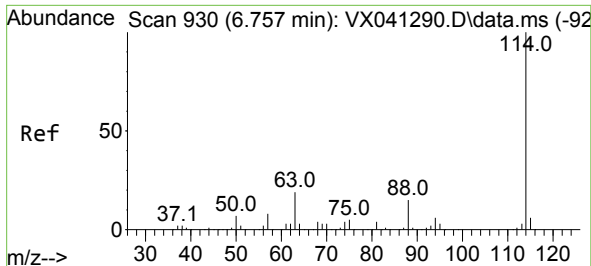
Tgt Ion: 56 Resp: 3148  
Ion Ratio Lower Upper  
56 100  
69 168.9 23.4 35.2#  
84 122.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 49.660 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Tgt Ion: 65 Resp: 107379  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 100.2

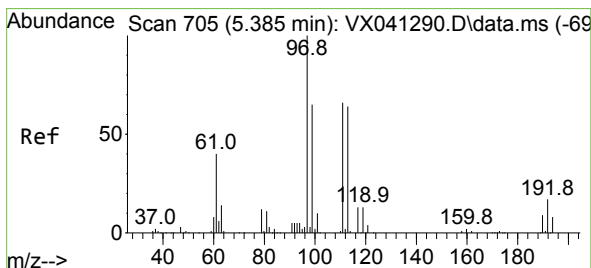
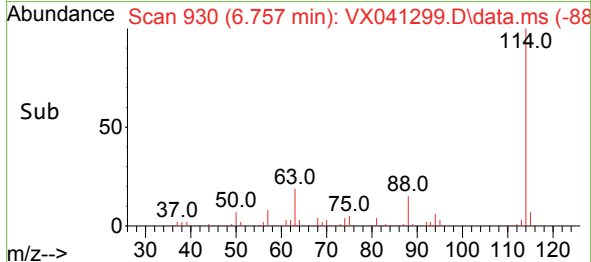
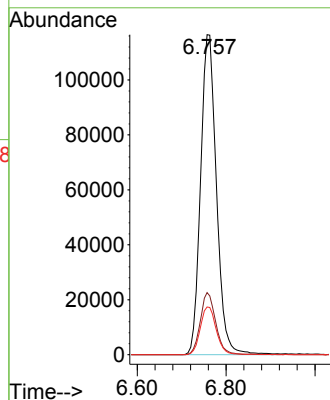
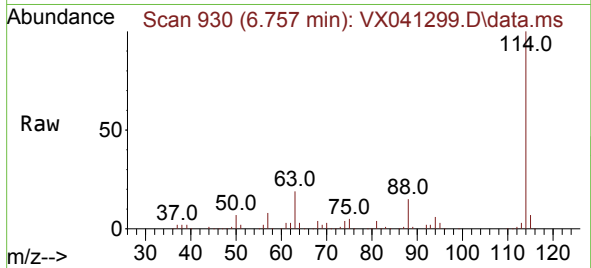




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

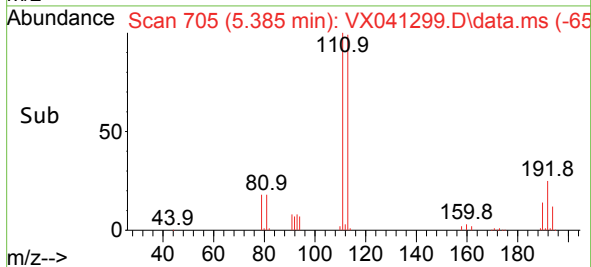
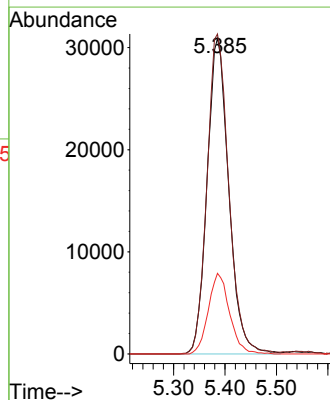
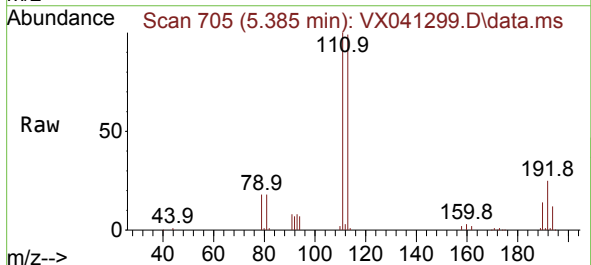
Instrument :  
MSVOA\_X  
ClientSampleId :

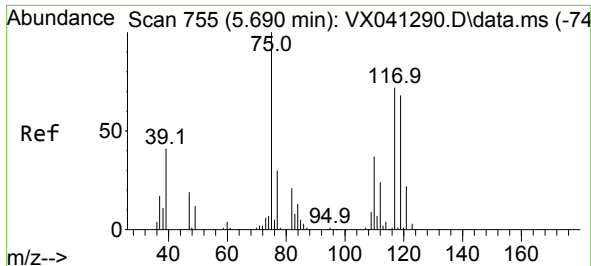
Tgt Ion:114 Resp: 289718  
Ion Ratio Lower Upper  
114 100  
63 19.4 0.0 45.0  
88 14.9 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.059 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Tgt Ion:113 Resp: 90430  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.9 124.3  
192 25.0 13.3 19.9#

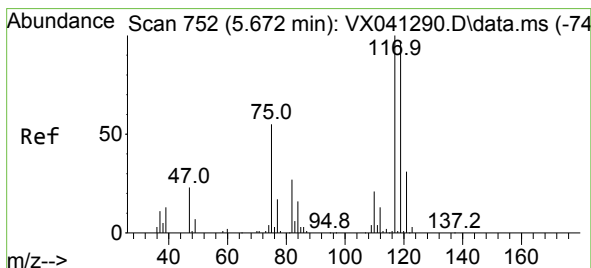
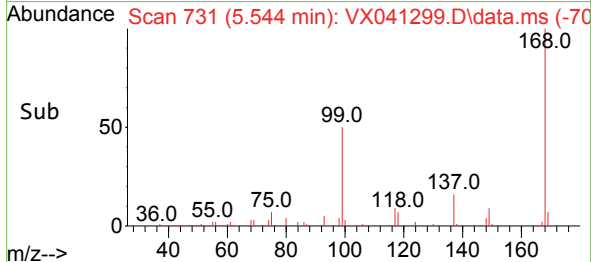
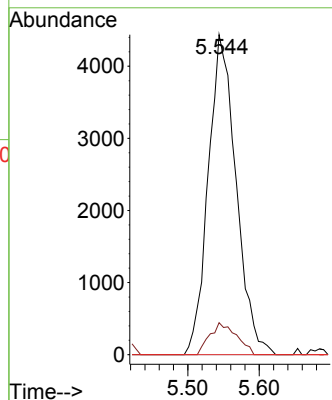
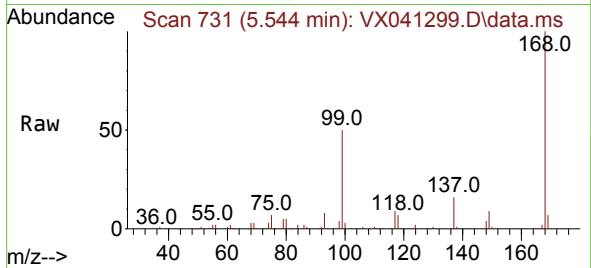




#36  
1,1-Dichloropropene  
Concen: 5.114 ug/l  
RT: 5.544 min Scan# 711  
Delta R.T. -0.146 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

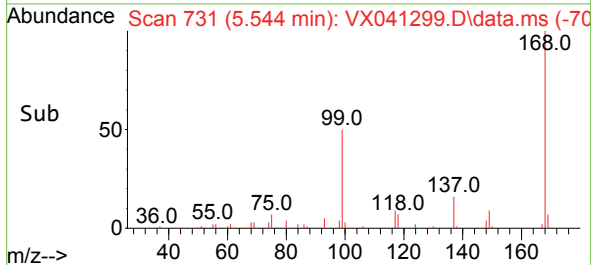
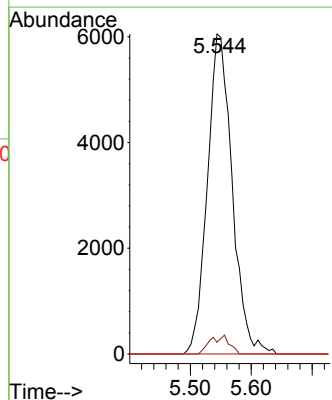
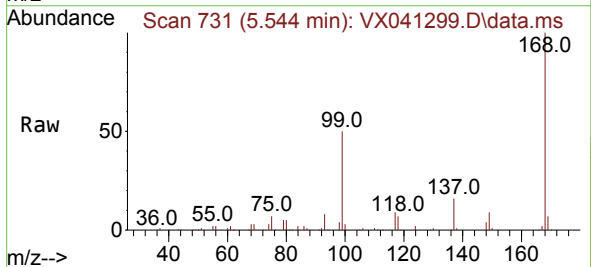
Instrument :  
MSVOA\_X  
ClientSampleId :

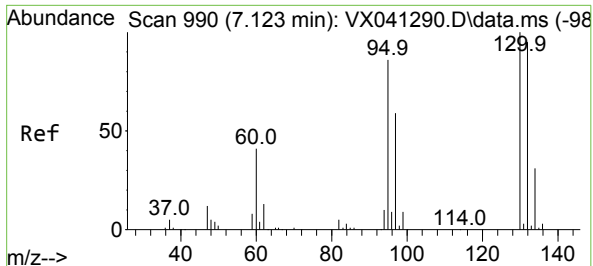
Tgt Ion: 75 Resp: 12005  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.367 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Tgt Ion: 117 Resp: 17123  
Ion Ratio Lower Upper  
117 100  
119 3.7 78.2 117.2#  
121 0.0 24.4 36.6#





#44

Trichloroethene

Concen: 8.259 ug/l

RT: 7.129 min Scan# 990

Delta R.T. 0.006 min

Lab File: VX041299.D

Acq: 30 Apr 2024 15:08

Instrument :

MSVOA\_X

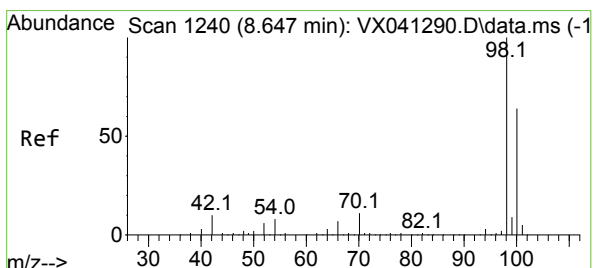
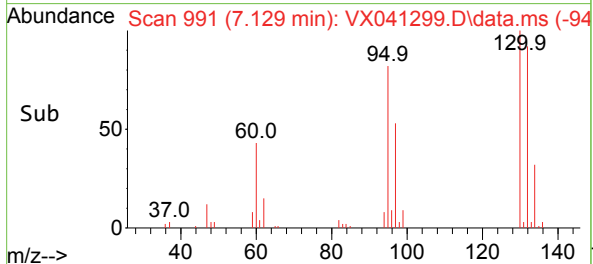
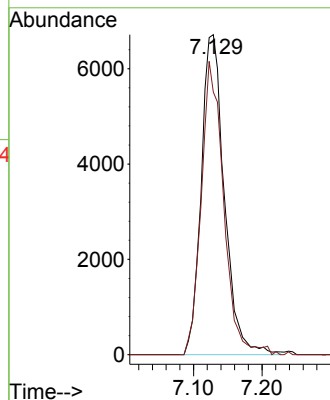
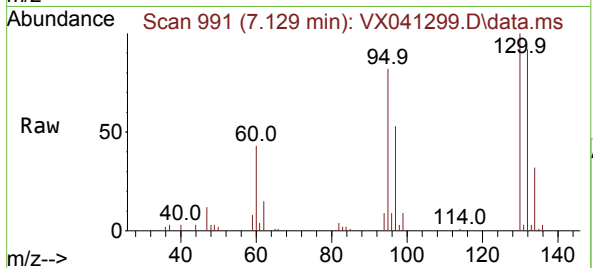
ClientSampleId :

Tgt Ion:130 Resp: 15783

Ion Ratio Lower Upper

130 100

95 82.1 0.0 204.4



#50

Toluene-d8

Concen: 53.012 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX041299.D

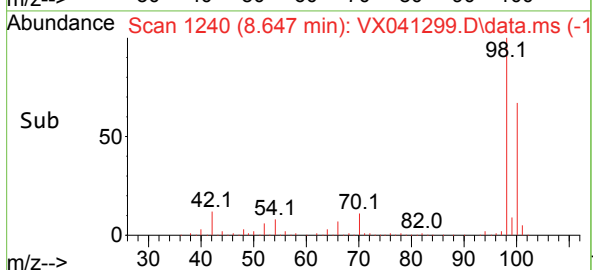
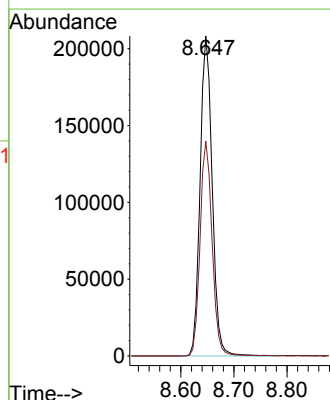
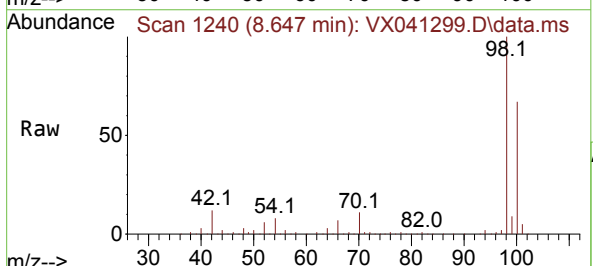
Acq: 30 Apr 2024 15:08

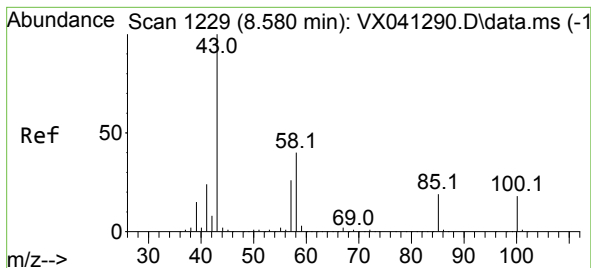
Tgt Ion: 98 Resp: 329422

Ion Ratio Lower Upper

98 100

100 66.7 53.1 79.7





#51

4-Methyl-2-Pentanone

Concen: 0.533 ug/l

RT: 8.641 min Scan# 1239

Delta R.T. 0.061 min

Lab File: VX041299.D

Acq: 30 Apr 2024 15:08

Instrument :

MSVOA\_X

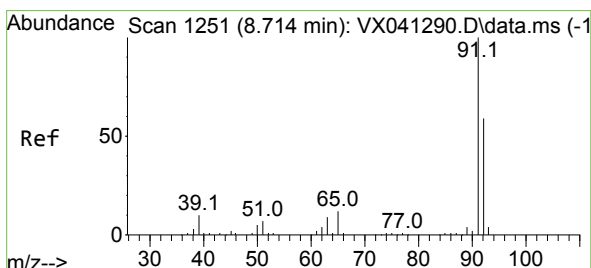
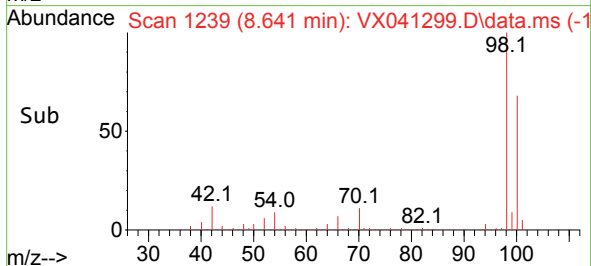
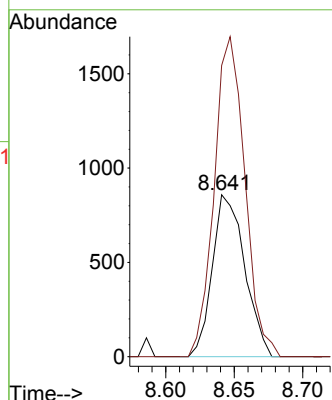
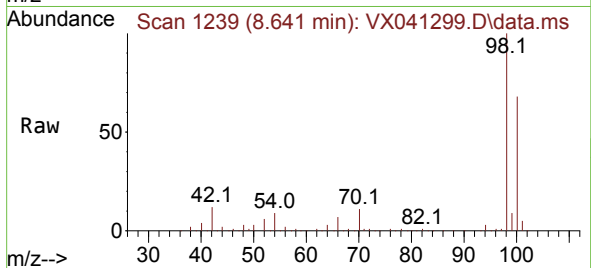
ClientSampleId :

Tgt Ion: 43 Resp: 1409

Ion Ratio Lower Upper

43 100

58 187.4 30.4 45.6#



#52

Toluene

Concen: 0.455 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.006 min

Lab File: VX041299.D

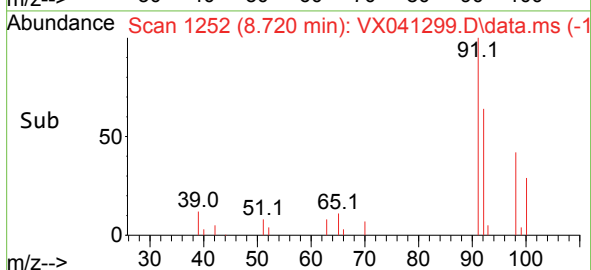
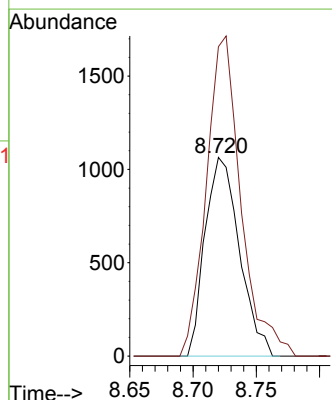
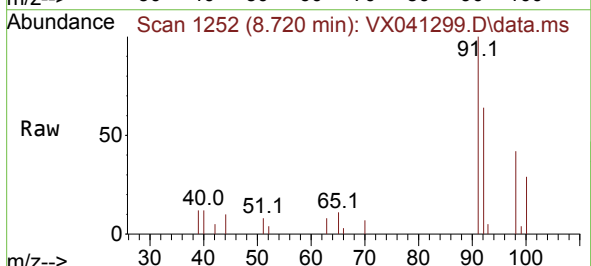
Acq: 30 Apr 2024 15:08

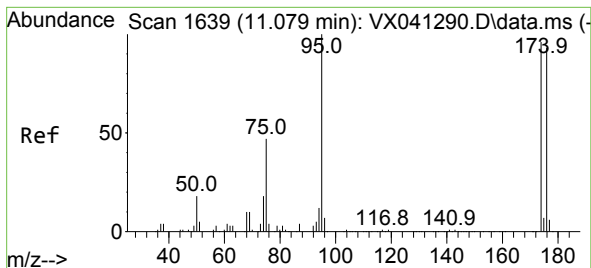
Tgt Ion: 92 Resp: 2015

Ion Ratio Lower Upper

92 100

91 161.6 134.2 201.2

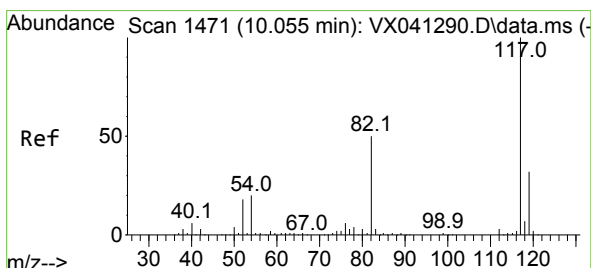
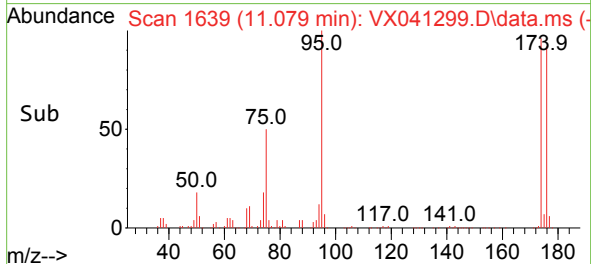
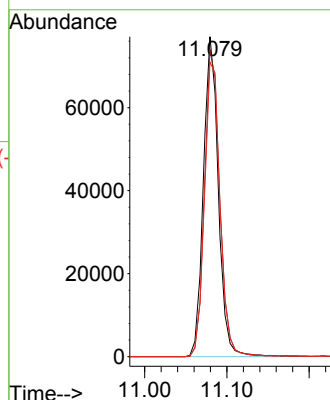
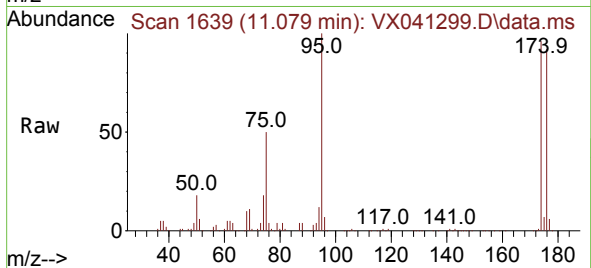




#62  
4-Bromofluorobenzene  
Concen: 40.358 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

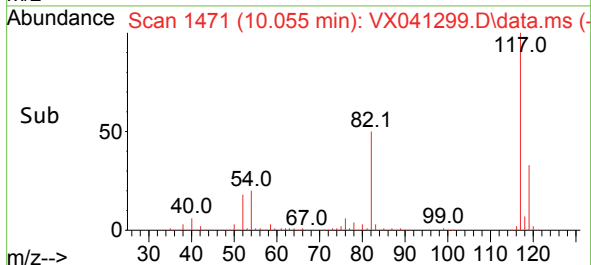
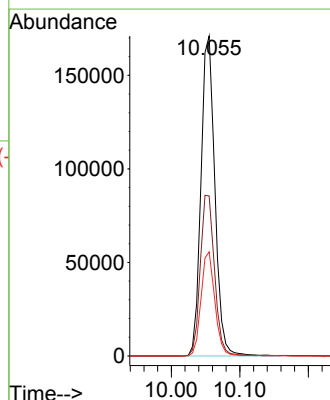
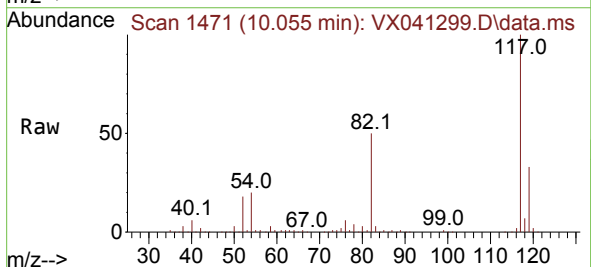
Instrument :  
MSVOA\_X  
ClientSampleId :

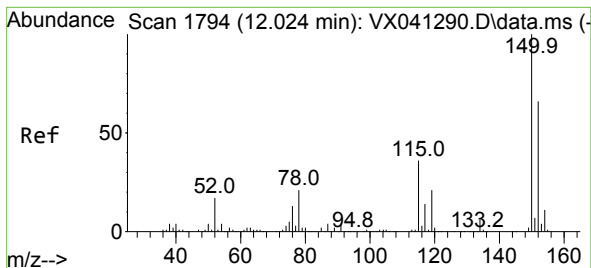
Tgt Ion: 95 Resp: 97082  
Ion Ratio Lower Upper  
95 100  
174 98.4 0.0 135.6  
176 96.7 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Tgt Ion: 117 Resp: 242070  
Ion Ratio Lower Upper  
117 100  
82 50.0 46.2 69.4  
119 32.6 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX041299.D

Acq: 30 Apr 2024 15:08

Instrument :

MSVOA\_X

ClientSampleId :

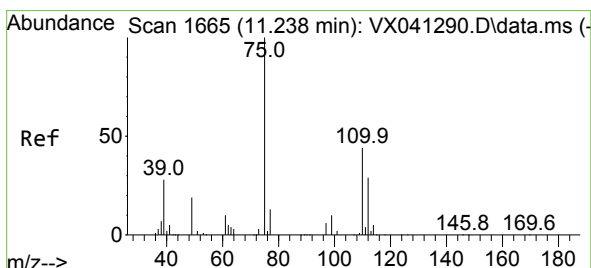
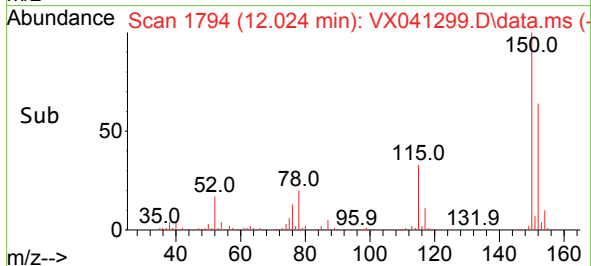
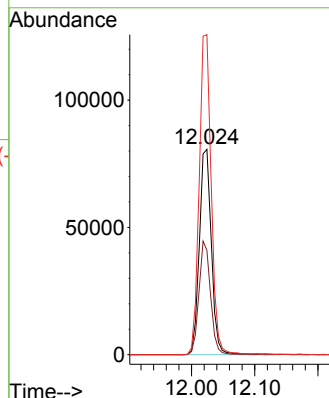
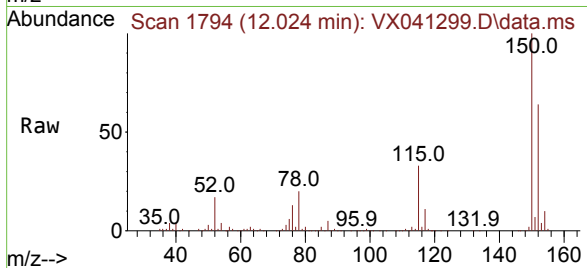
Tgt Ion:152 Resp: 107170

Ion Ratio Lower Upper

152 100

115 53.1 43.3 129.9

150 156.0 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 28.516 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX041299.D

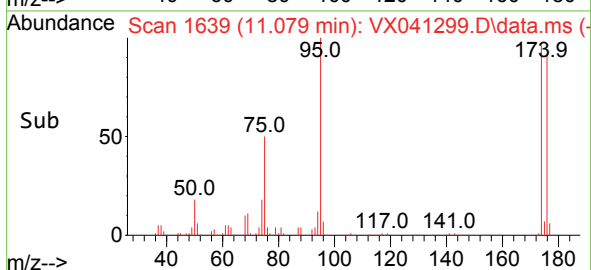
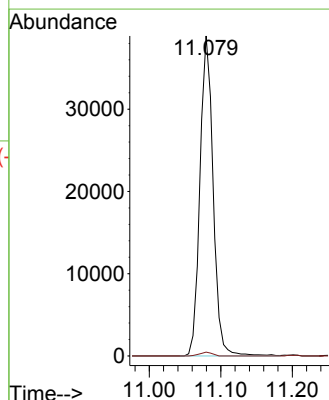
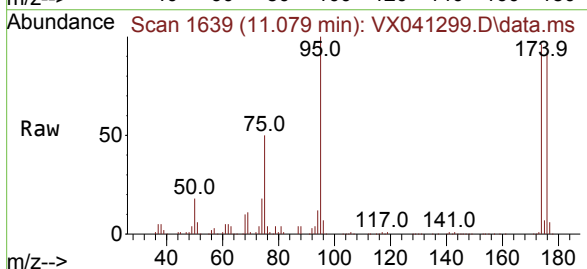
Acq: 30 Apr 2024 15:08

Tgt Ion: 75 Resp: 49804

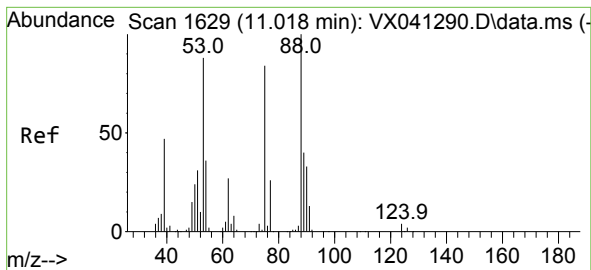
Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#

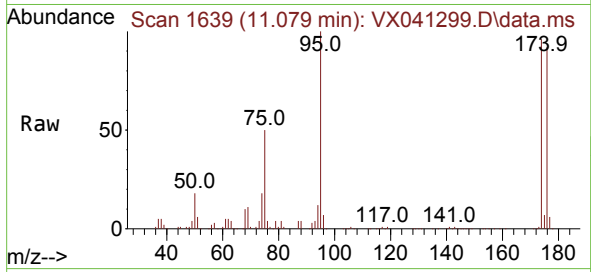






#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.674 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX041299.D  
Acq: 30 Apr 2024 15:08

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 49804  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

