

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090223\  
 Data File : VX037476.D  
 Acq On : 02 Sep 2023 12:25  
 Operator : JC/MD  
 Sample : VX0902WBL02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0902WBL02

Quant Time: Sep 04 04:24:30 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

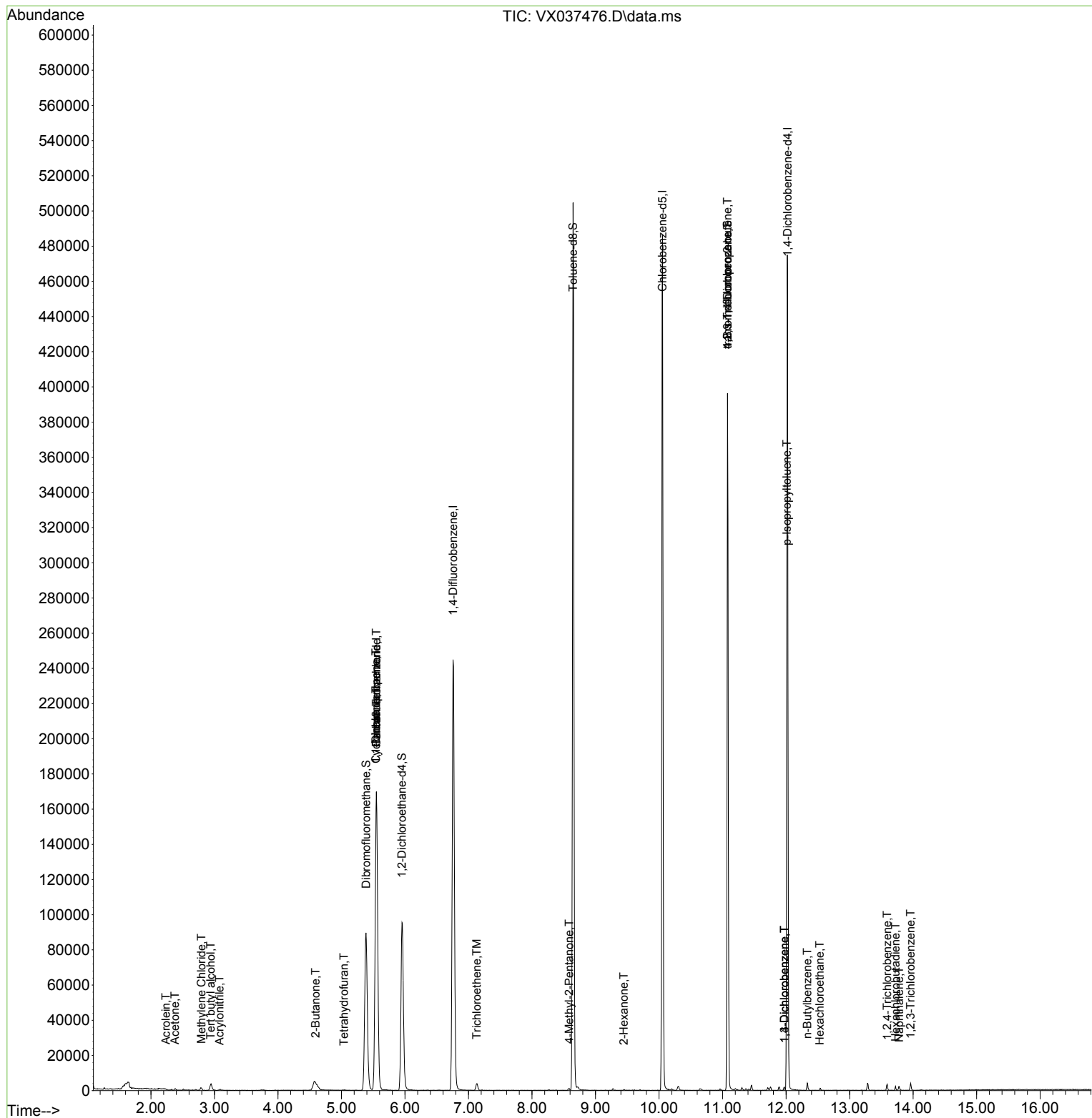
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 159234   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 266417   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 232867   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 103901   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 95059    | 41.408   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 82.820%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 80676    | 45.724   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 91.440%  |
| 50) Toluene-d8                | 8.647  | 98    | 309457   | 48.351   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 96.700%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 111215   | 44.217   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 88.440%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.940  | 59    | 2558     | 4.750    | ug/l # | 78       |
| 13) Acrolein                  | 2.233  | 56    | 263      | 0.642    | ug/l   | 89       |
| 15) Acrylonitrile             | 3.081  | 53    | 287      | 0.299    | ug/l # | 78       |
| 16) Acetone                   | 2.380  | 43    | 972      | 1.082    | ug/l   | 97       |
| 20) Methylene Chloride        | 2.794  | 84    | 828      | 0.412    | ug/l # | 76       |
| 25) 2-Butanone                | 4.593  | 43    | 517      | 0.382    | ug/l # | 51       |
| 29) Tetrahydrofuran           | 5.038  | 42    | 291      | 0.337    | ug/l # | 34       |
| 31) Cyclohexane               | 5.544  | 56    | 3157     | 1.223    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 12337    | 4.921    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 16538    | 6.073    | ug/l # | 16       |
| 44) Trichloroethene           | 7.129  | 130   | 1700     | 0.834    | ug/l   | 87       |
| 51) 4-Methyl-2-Pentanone      | 8.586  | 43    | 723      | 0.293    | ug/l   | 96       |
| 59) 2-Hexanone                | 9.445  | 43    | 377      | 0.200    | ug/l   | 82       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 54150    | 24.472   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 54150    | 68.351   | ug/l # | 5        |
| 86) p-Isopropyltoluene        | 12.012 | 119   | 1579     | 0.261    | ug/l # | 80       |
| 87) 1,3-Dichlorobenzene       | 11.975 | 146   | 826      | 0.239    | ug/l   | 94       |
| 88) 1,4-Dichlorobenzene       | 11.975 | 146   | 826      | 0.232    | ug/l   | 95       |
| 89) n-Butylbenzene            | 12.335 | 91    | 1513     | 0.302    | ug/l   | 99       |
| 90) Hexachloroethane          | 12.530 | 117   | 234      | 0.232    | ug/l # | 57       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 1161     | 0.587    | ug/l   | 89       |
| 94) Hexachlorobutadiene       | 13.725 | 225   | 454      | 0.594    | ug/l   | 93       |
| 95) Naphthalene               | 13.780 | 128   | 1894     | 0.219    | ug/l # | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 1188     | 0.604    | ug/l   | 93       |
| -----                         |        |       |          |          |        |          |

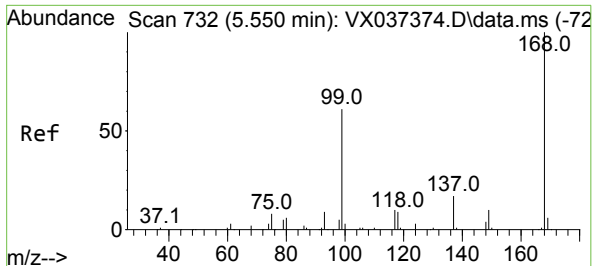
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration

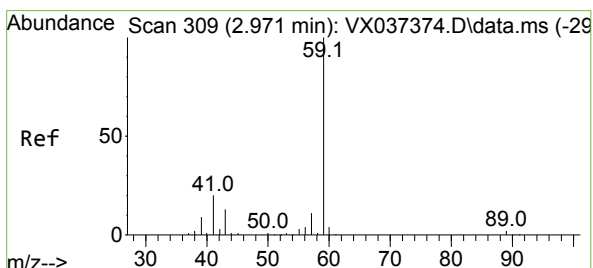
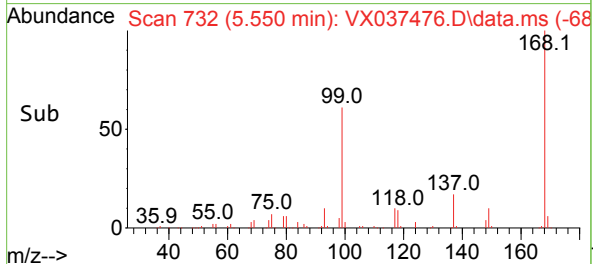
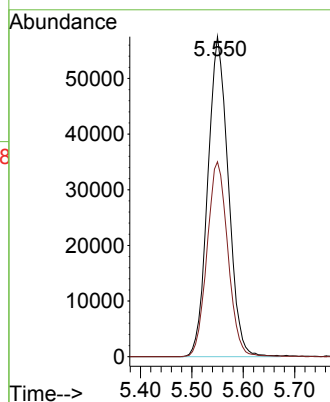
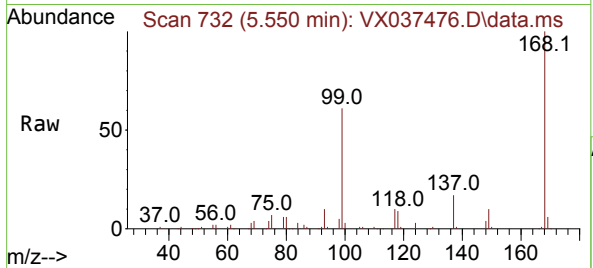




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

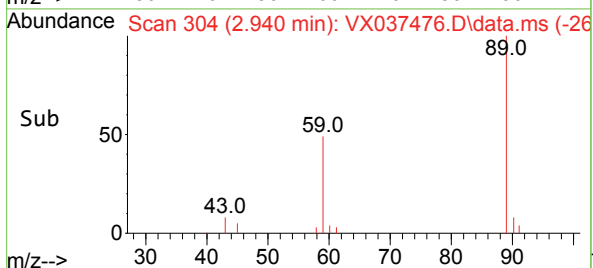
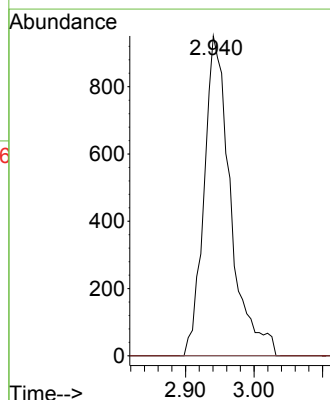
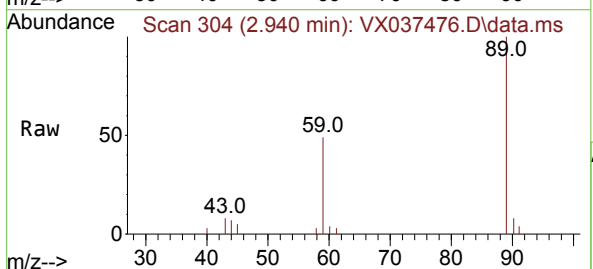
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

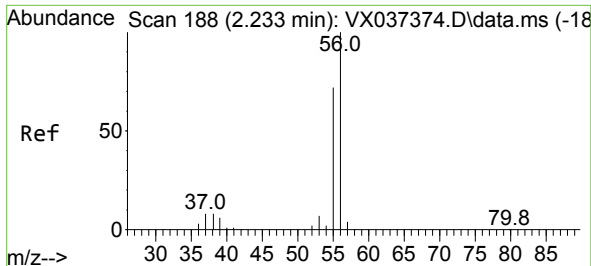
Tgt Ion:168 Resp: 159234  
Ion Ratio Lower Upper  
168 100  
99 60.9 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 4.750 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.037 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 59 Resp: 2558  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#





#13

Acrolein

Concen: 0.642 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

Instrument :

MSVOA\_X

ClientSampleId :

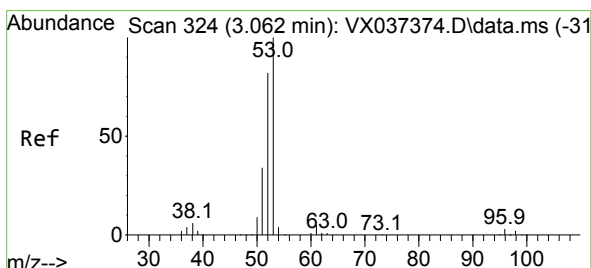
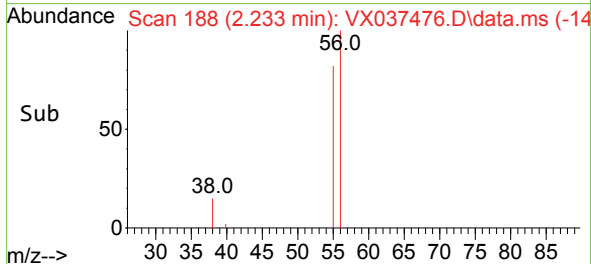
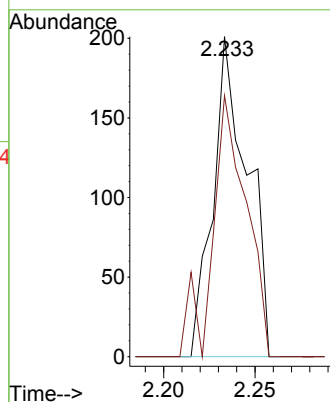
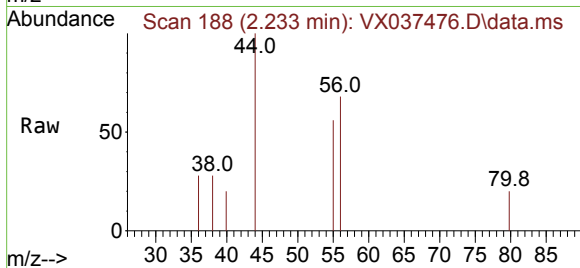
VX0902WBL02

Tgt Ion: 56 Resp: 263

Ion Ratio Lower Upper

56 100

55 80.2 57.1 85.7



#15

Acrylonitrile

Concen: 0.299 ug/l

RT: 3.081 min Scan# 327

Delta R.T. 0.018 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

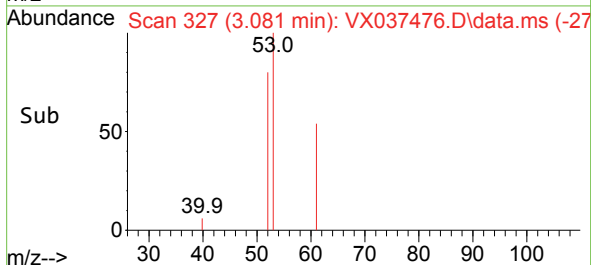
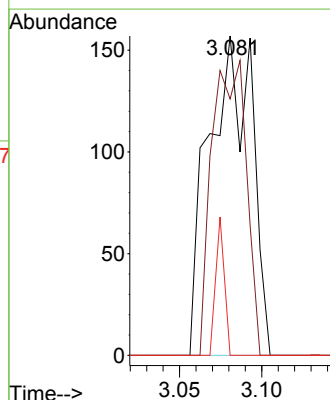
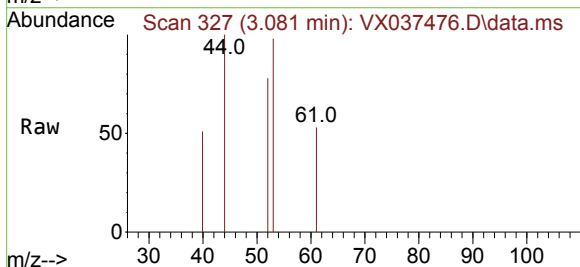
Tgt Ion: 53 Resp: 287

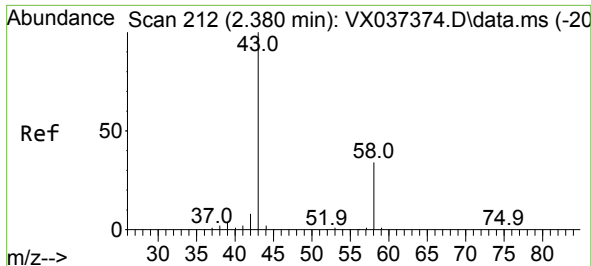
Ion Ratio Lower Upper

53 100

52 73.2 66.0 99.0

51 8.7 29.8 44.6#

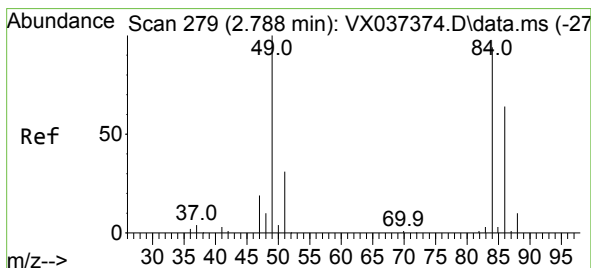
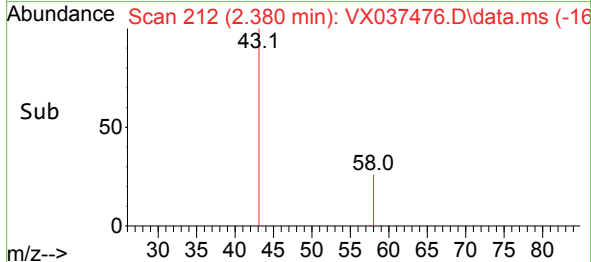
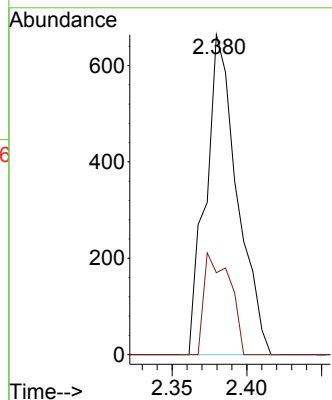
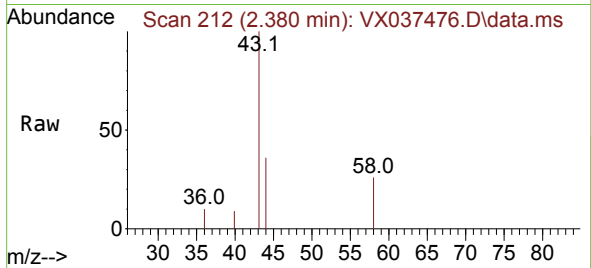




#16  
Acetone  
Concen: 1.082 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.006 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

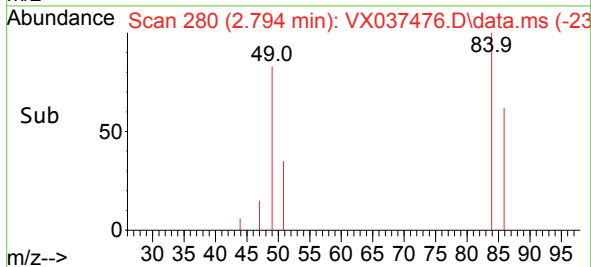
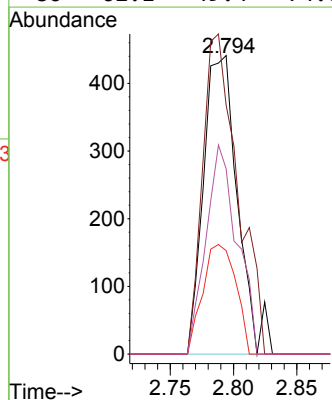
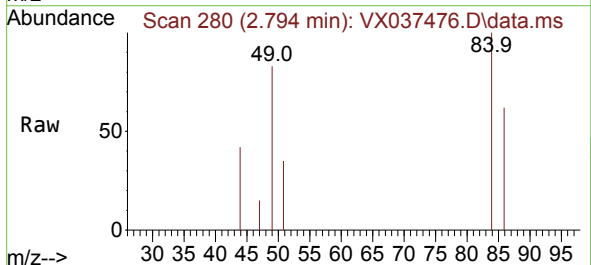
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

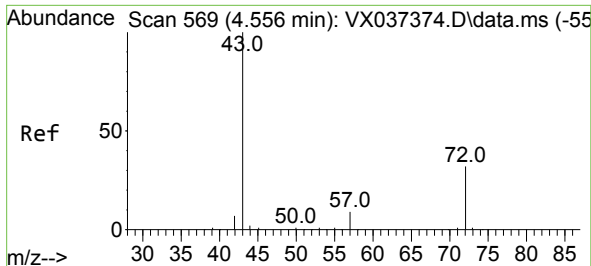
Tgt Ion: 43 Resp: 972  
Ion Ratio Lower Upper  
43 100  
58 25.6 21.9 32.9



#20  
Methylene Chloride  
Concen: 0.412 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 84 Resp: 828  
Ion Ratio Lower Upper  
84 100  
49 83.4 103.6 155.4#  
51 34.7 33.8 50.6  
86 62.1 49.4 74.0

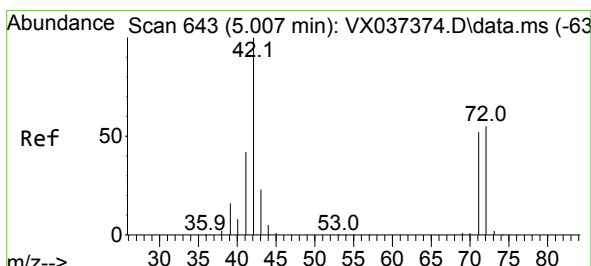
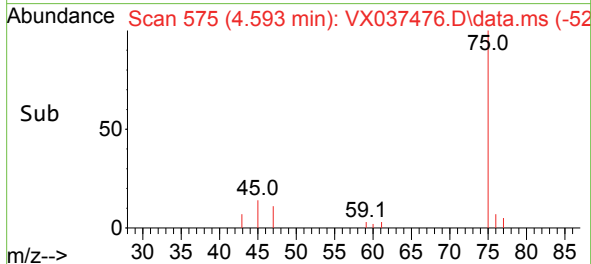
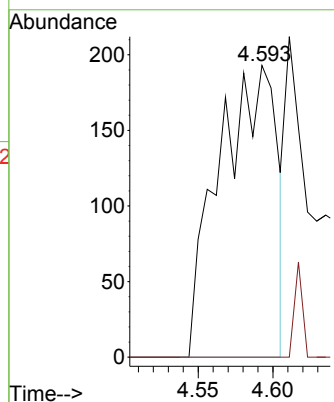
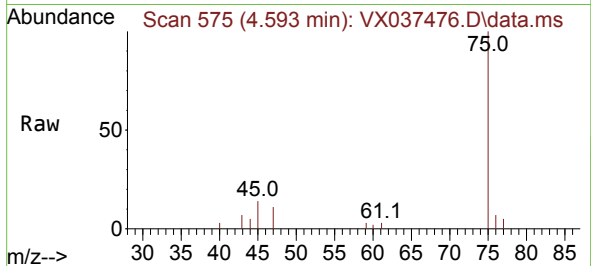




#25  
2-Butanone  
Concen: 0.382 ug/l  
RT: 4.593 min Scan# 517  
Delta R.T. 0.037 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

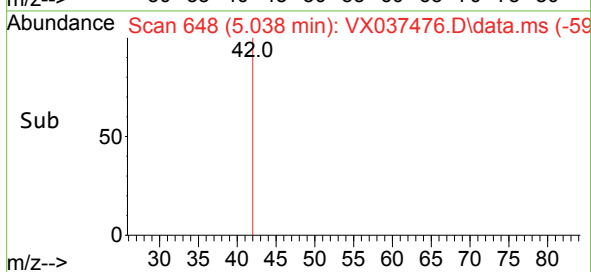
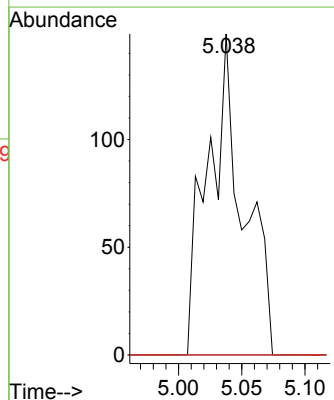
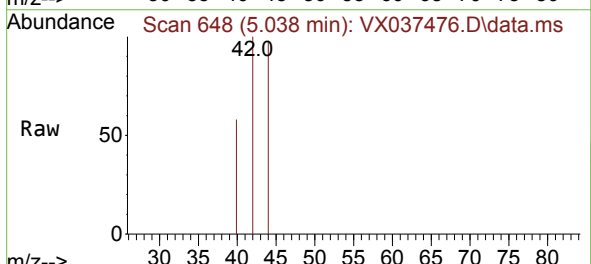
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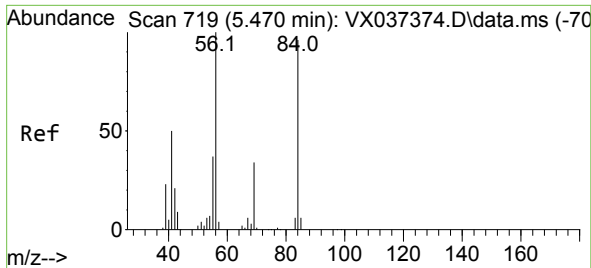
Tgt Ion: 43 Resp: 517  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#



#29  
Tetrahydrofuran  
Concen: 0.337 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.031 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

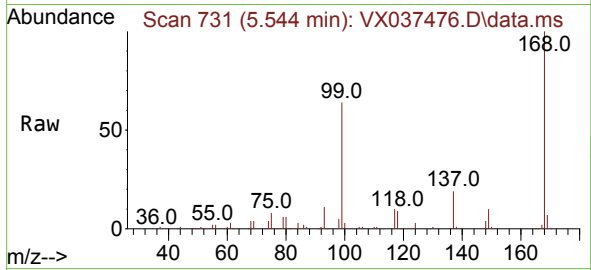
Tgt Ion: 42 Resp: 291  
Ion Ratio Lower Upper  
42 100  
72 0.0 34.2 51.4#  
71 0.0 32.2 48.2#



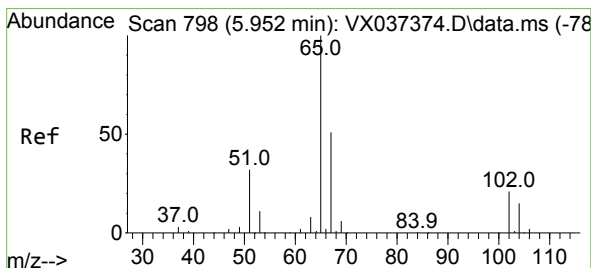
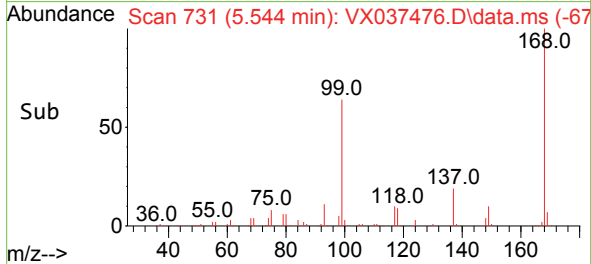
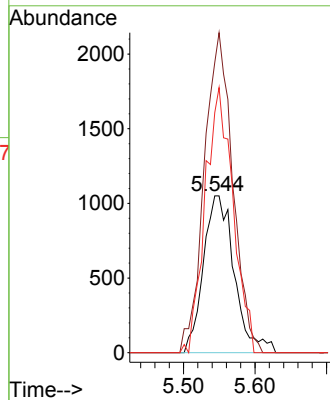


#31  
Cyclohexane  
Concen: 1.223 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

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ClientSampleId :  
VX0902WBL02

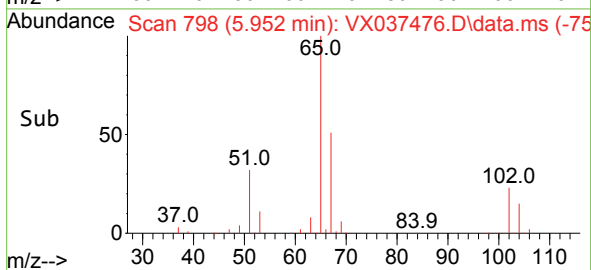
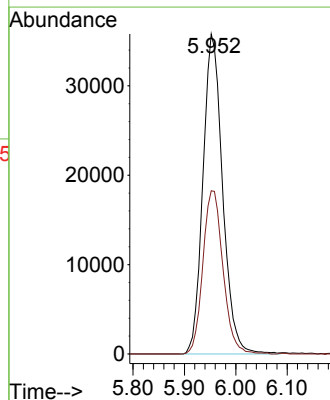
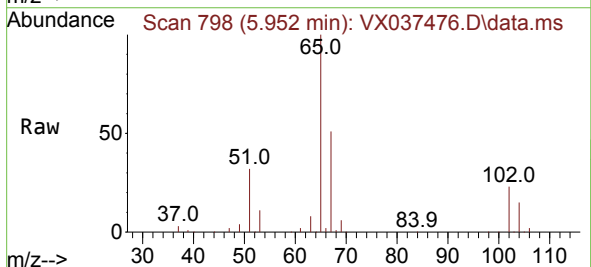


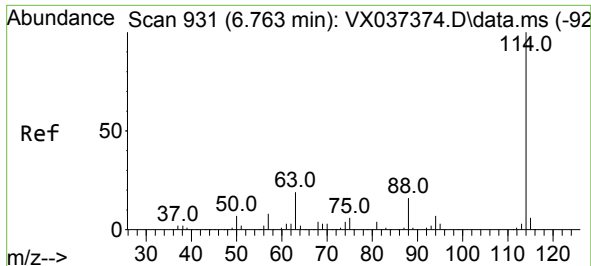
Tgt Ion: 56 Resp: 3157  
Ion Ratio Lower Upper  
56 100  
69 185.0 23.4 35.2#  
84 153.0 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 41.408 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 65 Resp: 95059  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 100.2

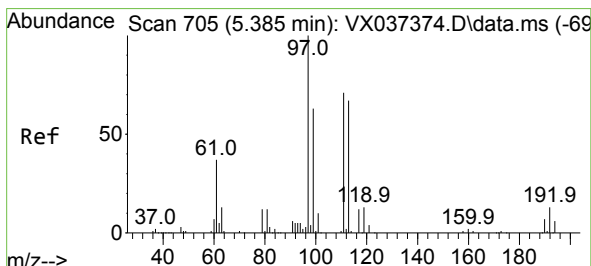
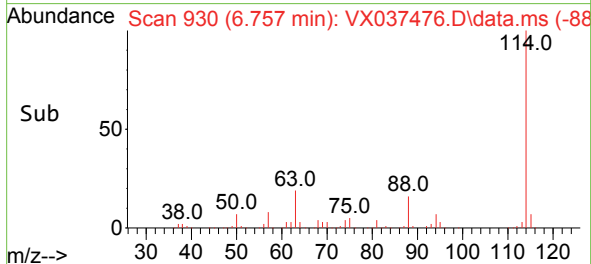
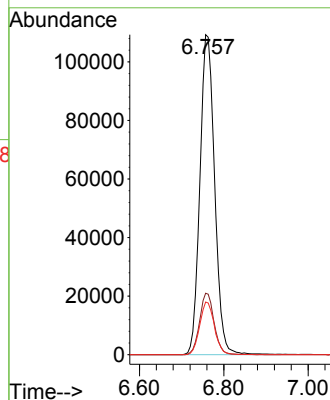
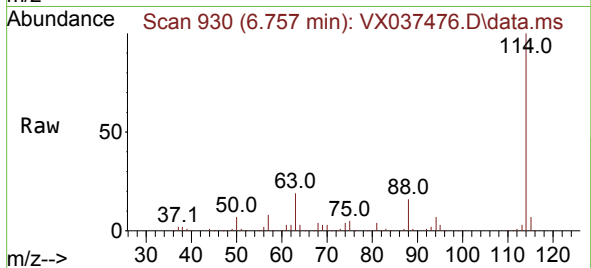




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.757 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

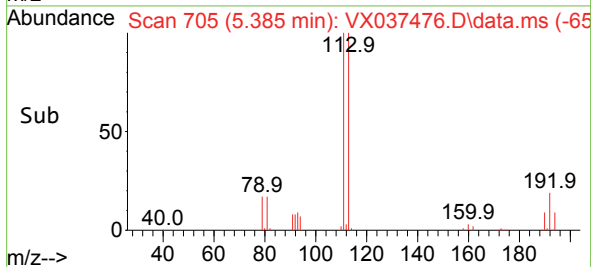
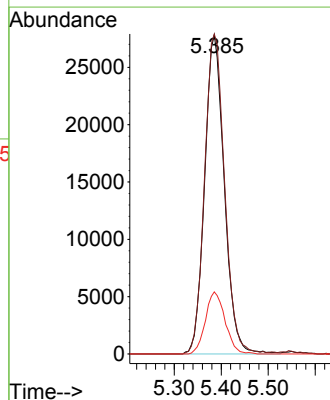
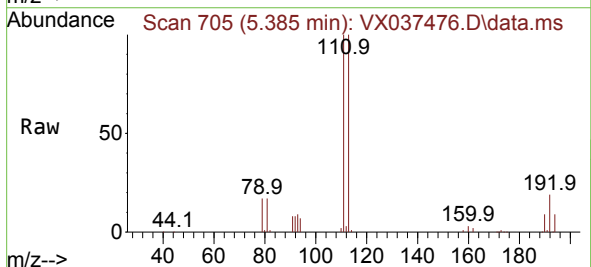
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

Tgt Ion:114 Resp: 266417  
Ion Ratio Lower Upper  
114 100  
63 19.2 0.0 45.0  
88 16.4 0.0 36.6

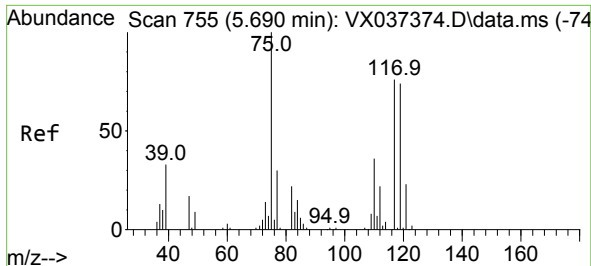


#35  
Dibromofluoromethane  
Concen: 45.724 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion:113 Resp: 80676  
Ion Ratio Lower Upper  
113 100  
111 102.3 82.9 124.3  
192 19.5 13.3 19.9



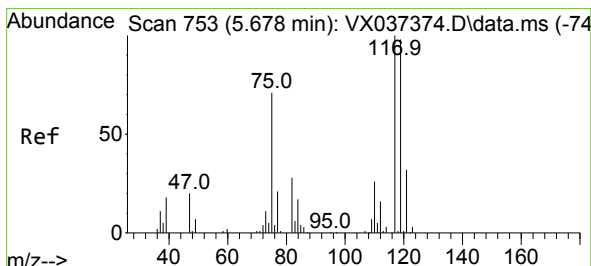
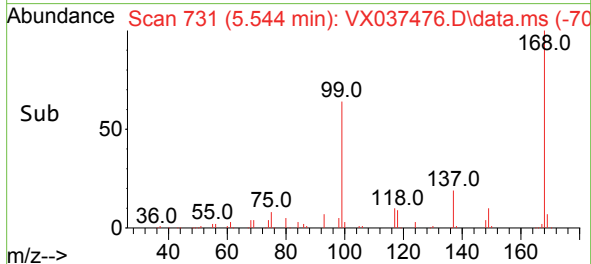
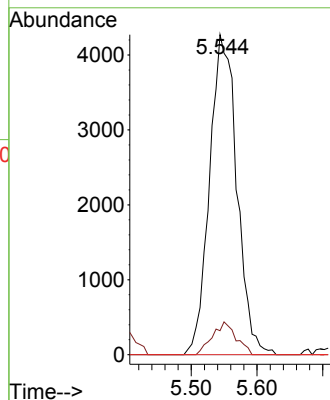
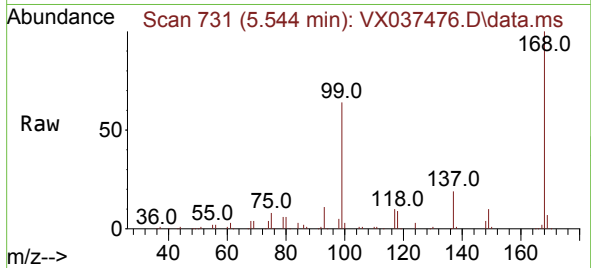




#36  
1,1-Dichloropropene  
Concen: 4.921 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.152 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

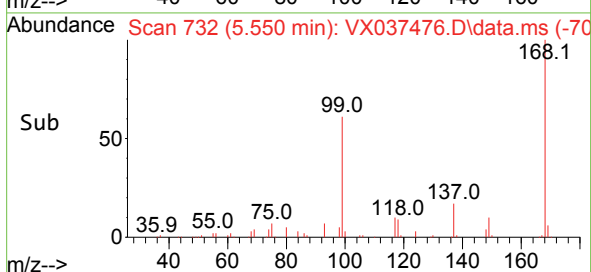
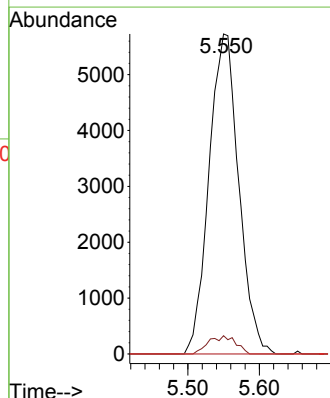
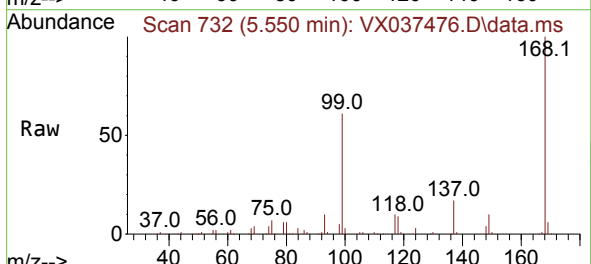
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

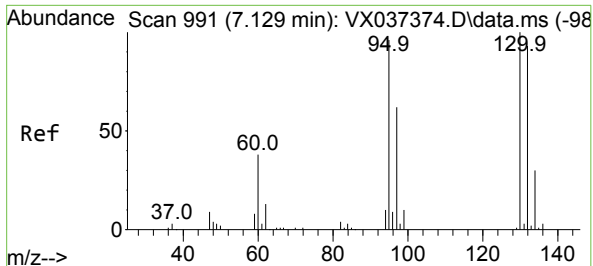
Tgt Ion: 75 Resp: 12337  
Ion Ratio Lower Upper  
75 100  
110 8.9 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.073 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 117 Resp: 16538  
Ion Ratio Lower Upper  
117 100  
119 5.7 78.2 117.2#  
121 0.0 24.4 36.6#

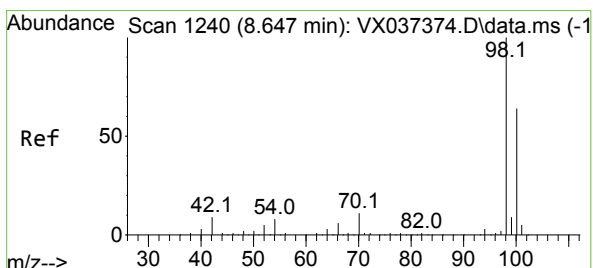
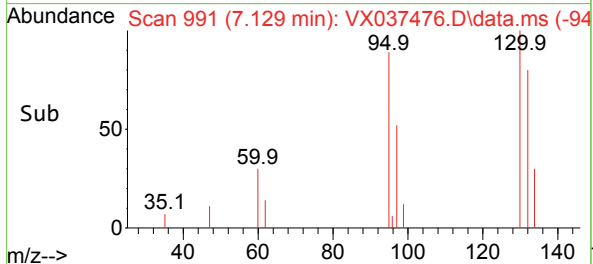
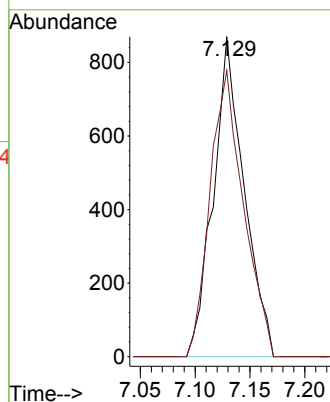
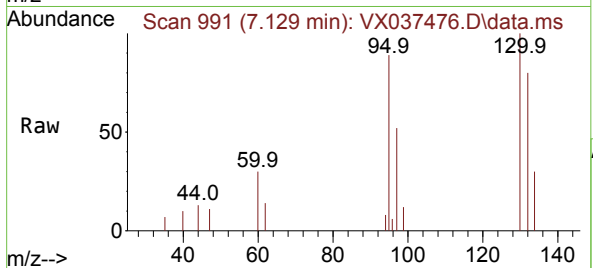




#44  
Trichloroethene  
Concen: 0.834 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

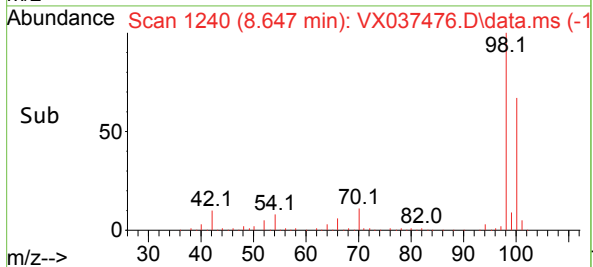
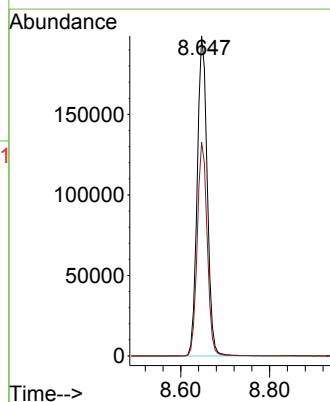
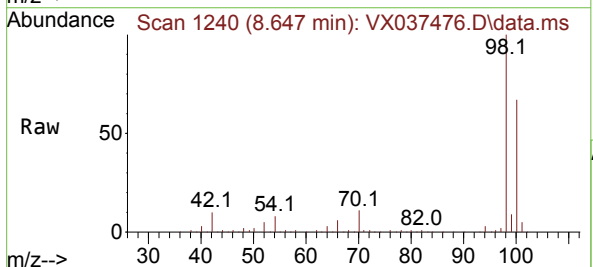
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

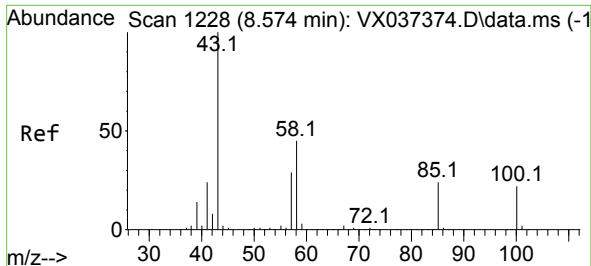
Tgt Ion:130 Resp: 1700  
Ion Ratio Lower Upper  
130 100  
95 89.4 0.0 204.4



#50  
Toluene-d8  
Concen: 48.351 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 98 Resp: 309457  
Ion Ratio Lower Upper  
98 100  
100 66.5 53.1 79.7

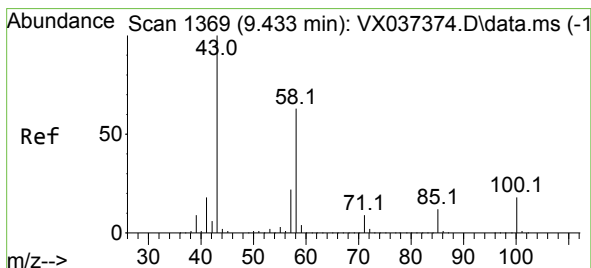
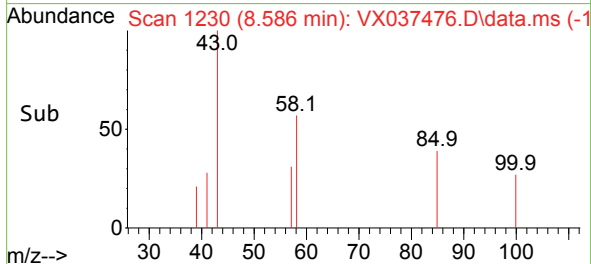
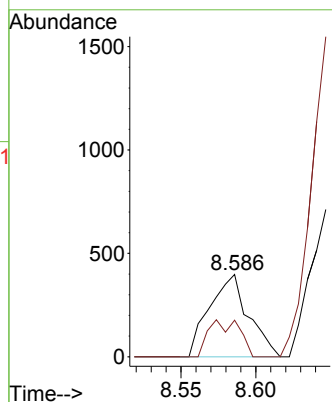
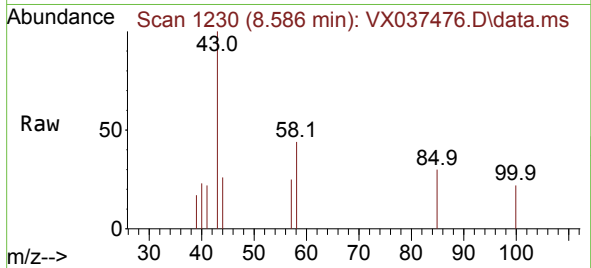




#51  
4-Methyl-2-Pentanone  
Concen: 0.293 ug/l  
RT: 8.586 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

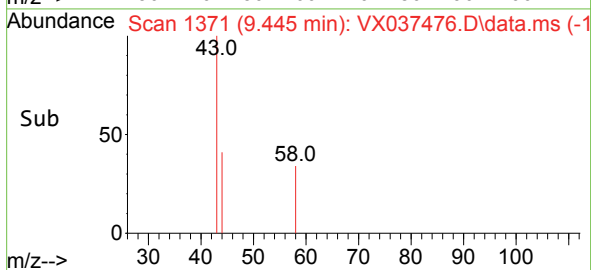
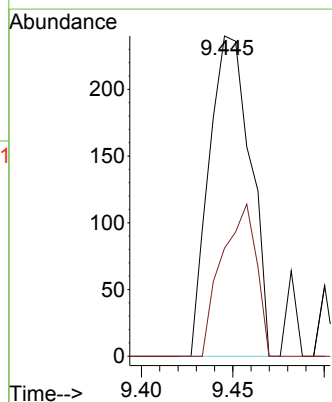
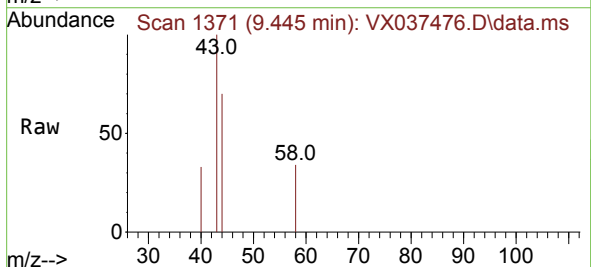
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

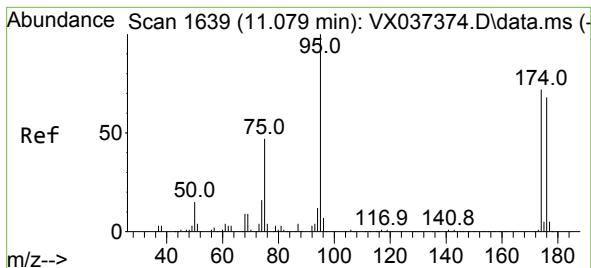
Tgt Ion: 43 Resp: 723  
Ion Ratio Lower Upper  
43 100  
58 35.5 30.4 45.6



#59  
2-Hexanone  
Concen: 0.200 ug/l  
RT: 9.445 min Scan# 1371  
Delta R.T. 0.012 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 43 Resp: 377  
Ion Ratio Lower Upper  
43 100  
58 39.8 26.2 78.5

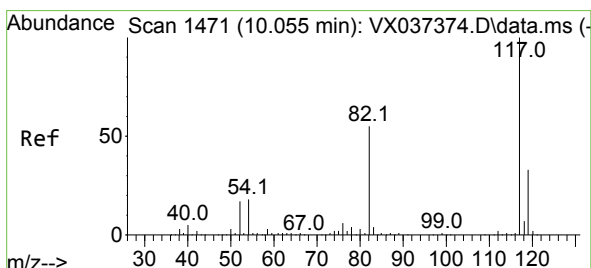
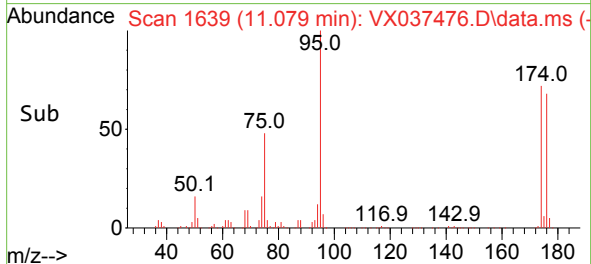
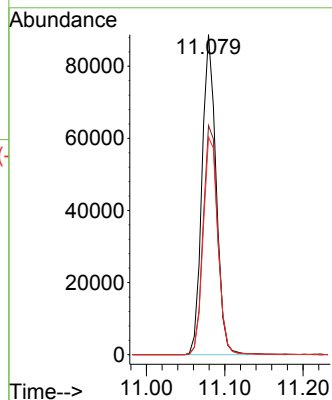
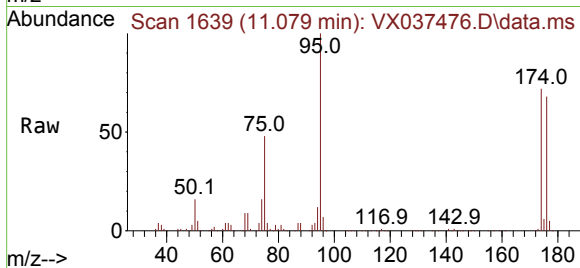




#62  
4-Bromofluorobenzene  
Concen: 44.217 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

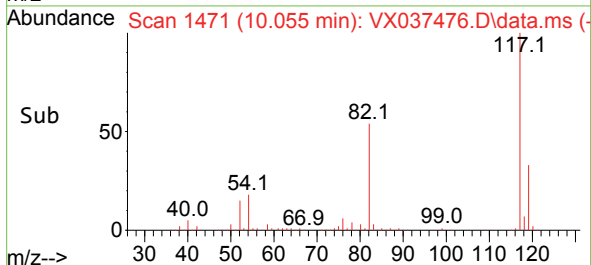
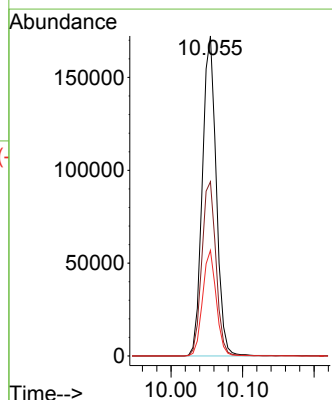
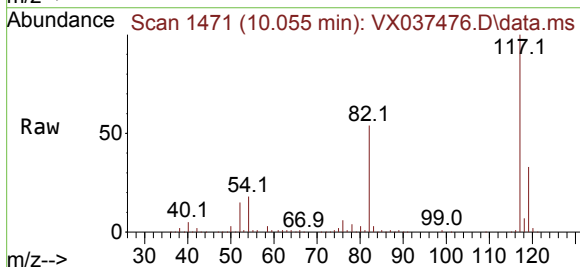
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

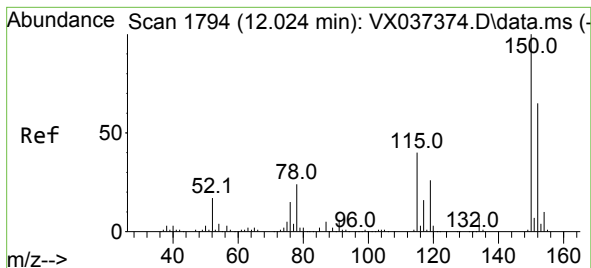
Tgt Ion: 95 Resp: 111215  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 135.6  
176 71.1 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 117 Resp: 232867  
Ion Ratio Lower Upper  
117 100  
82 54.4 46.2 69.4  
119 33.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

Instrument :

MSVOA\_X

ClientSampleId :

VX0902WBL02

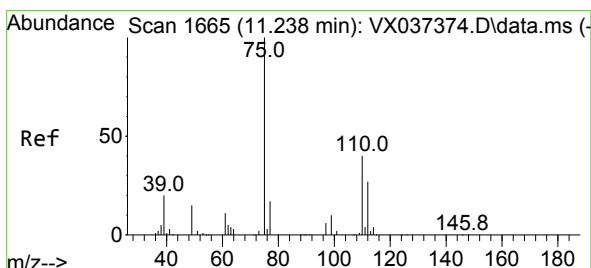
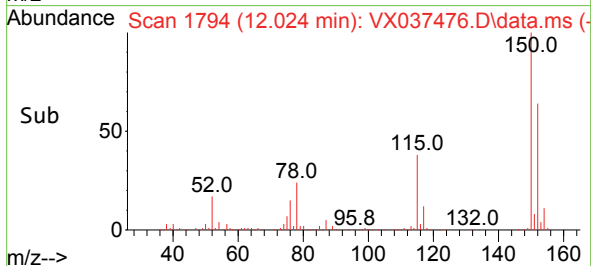
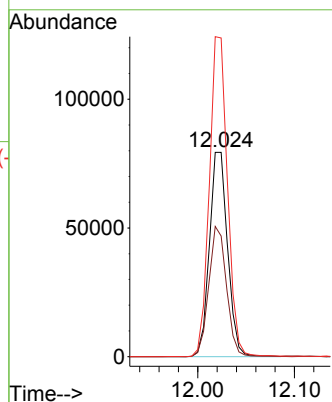
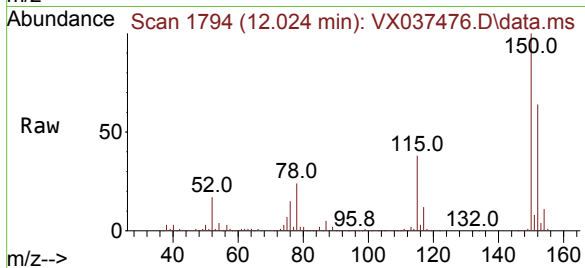
Tgt Ion:152 Resp: 103901

Ion Ratio Lower Upper

152 100

115 62.3 43.3 129.9

150 156.3 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 24.472 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX037476.D

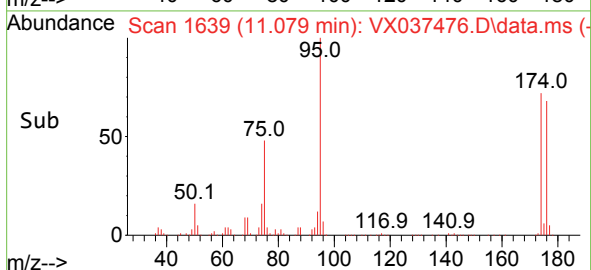
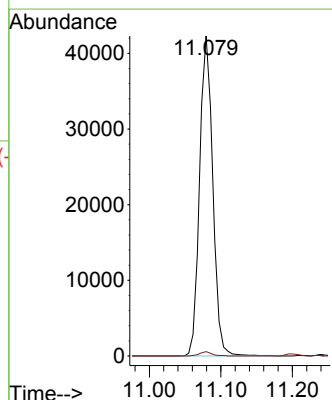
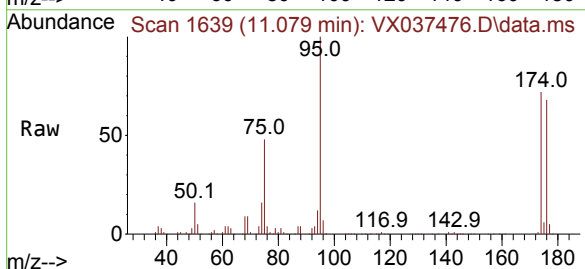
Acq: 02 Sep 2023 12:25

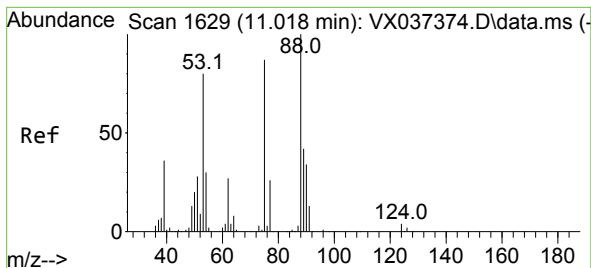
Tgt Ion: 75 Resp: 54150

Ion Ratio Lower Upper

75 100

77 1.2 19.1 57.5#

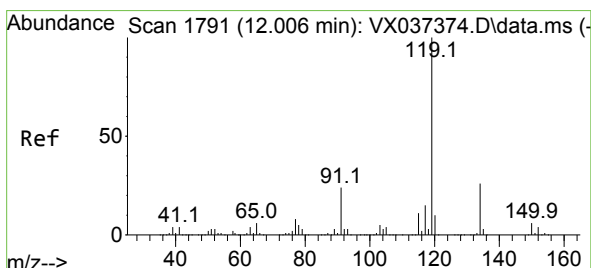
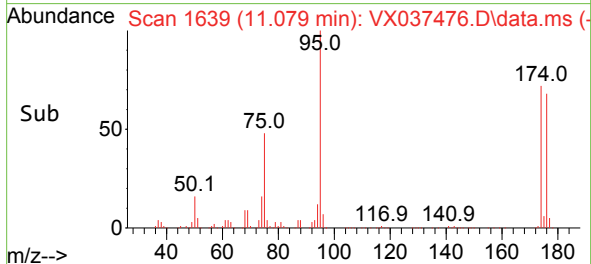
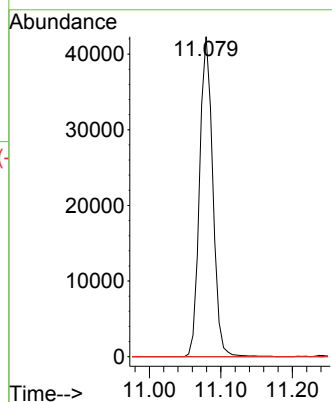
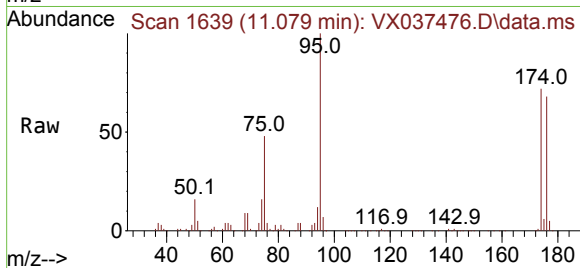




#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.351 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

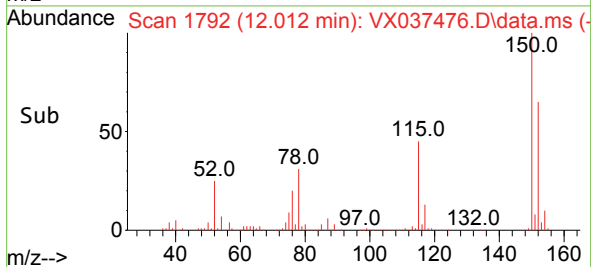
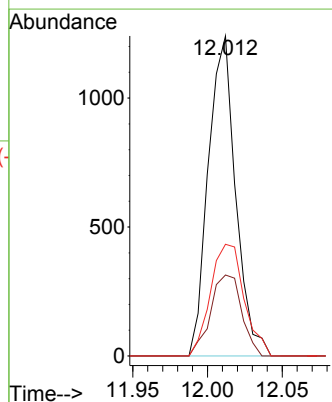
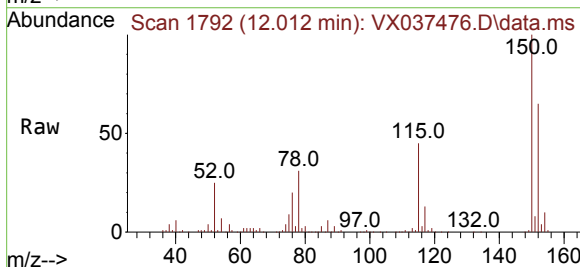
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0902WBL02

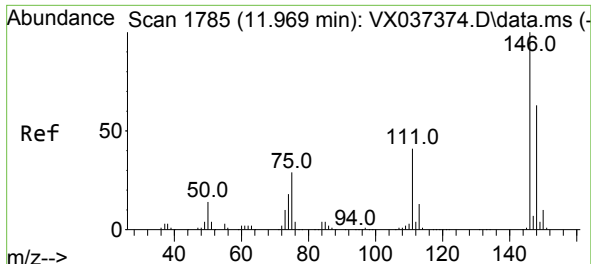
Tgt Ion: 75 Resp: 54150  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#86  
p-Isopropyltoluene  
Concen: 0.261 ug/l  
RT: 12.012 min Scan# 1792  
Delta R.T. 0.006 min  
Lab File: VX037476.D  
Acq: 02 Sep 2023 12:25

Tgt Ion: 119 Resp: 1579  
Ion Ratio Lower Upper  
119 100  
134 28.8 12.8 38.3  
91 43.1 13.1 39.3#





#87

1,3-Dichlorobenzene

Concen: 0.239 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

Instrument :

MSVOA\_X

ClientSampleId :

VX0902WBL02

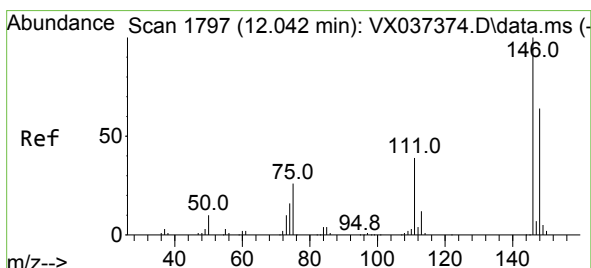
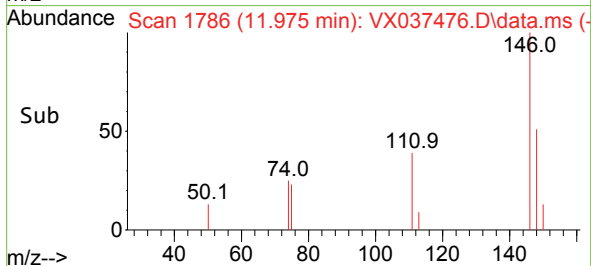
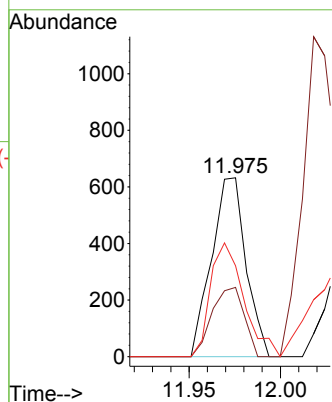
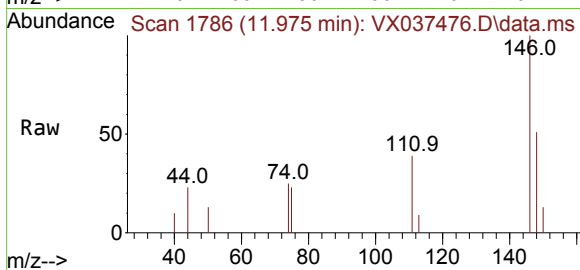
Tgt Ion:146 Resp: 826

Ion Ratio Lower Upper

146 100

111 36.3 22.1 66.1

148 61.7 31.8 95.3



#88

1,4-Dichlorobenzene

Concen: 0.232 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. -0.067 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

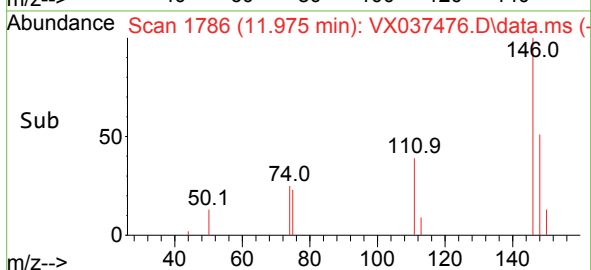
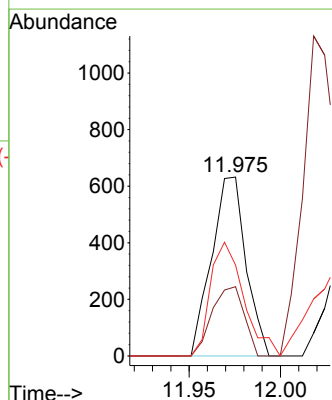
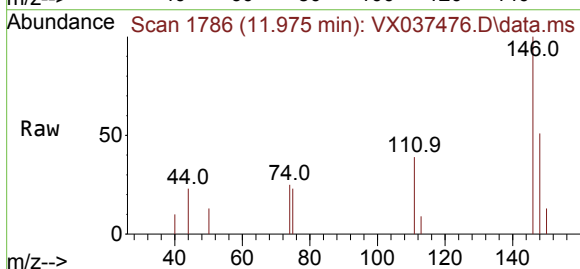
Tgt Ion:146 Resp: 826

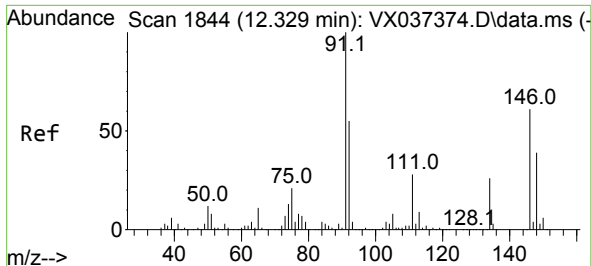
Ion Ratio Lower Upper

146 100

111 36.3 21.3 63.7

148 61.7 31.8 95.4





#89

n-Butylbenzene

Concen: 0.302 ug/l

RT: 12.335 min Scan# 1844

Delta R.T. 0.006 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

Instrument :

MSVOA\_X

ClientSampleId :

VX0902WBL02

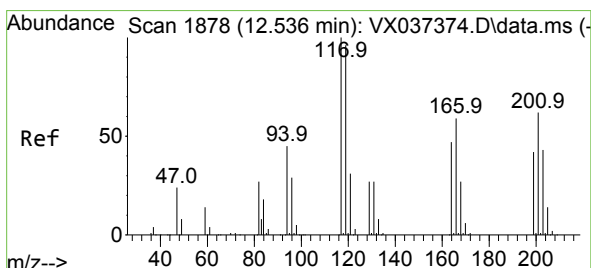
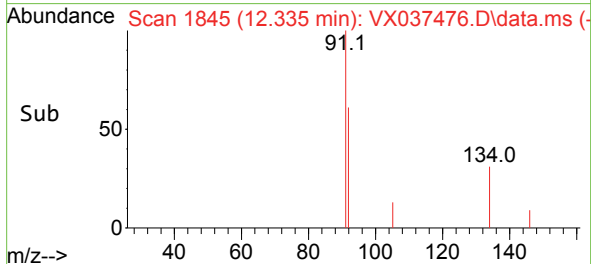
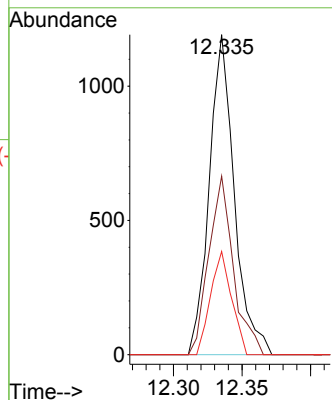
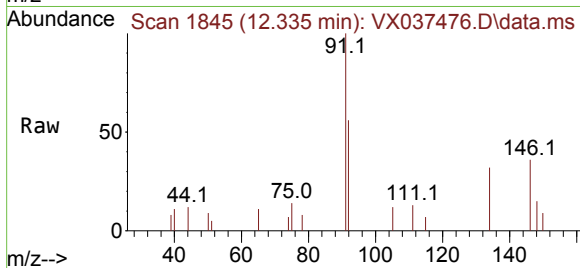
Tgt Ion: 91 Resp: 1513

Ion Ratio Lower Upper

91 100

92 54.9 27.4 82.0

134 27.0 12.6 37.8



#90

Hexachloroethane

Concen: 0.232 ug/l

RT: 12.530 min Scan# 1877

Delta R.T. -0.006 min

Lab File: VX037476.D

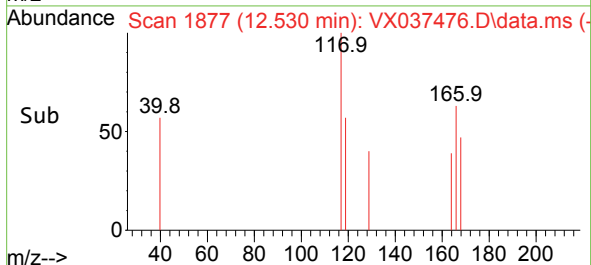
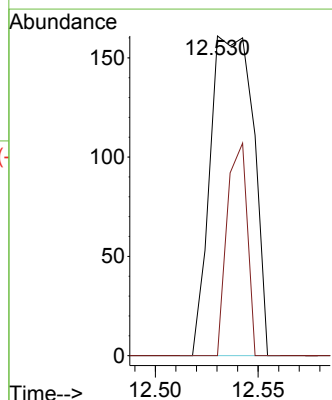
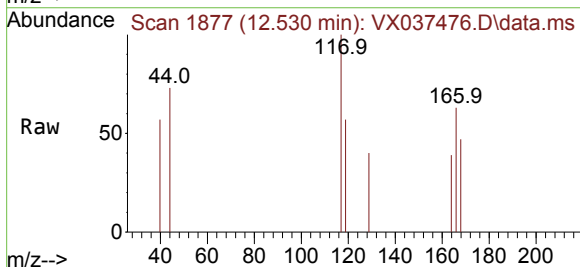
Acq: 02 Sep 2023 12:25

Tgt Ion: 117 Resp: 234

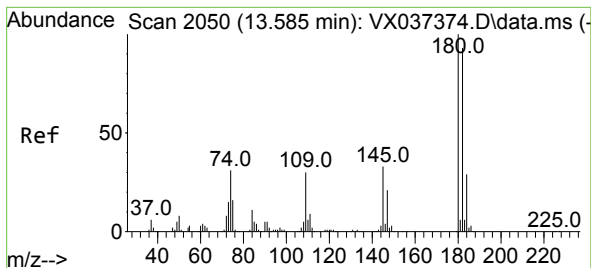
Ion Ratio Lower Upper

117 100

201 31.2 32.9 98.6#







#93

1,2,4-Trichlorobenzene

Concen: 0.587 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

Instrument :

MSVOA\_X

ClientSampleId :

VX0902WBL02

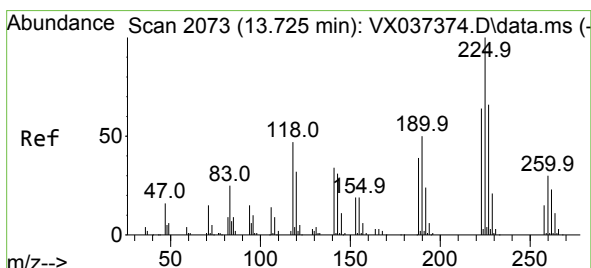
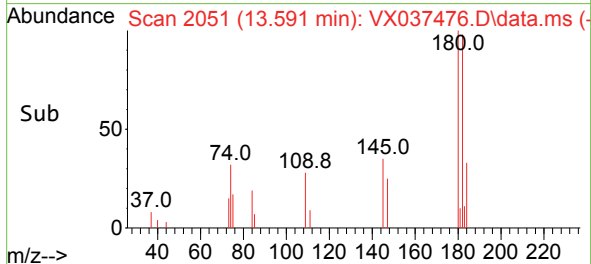
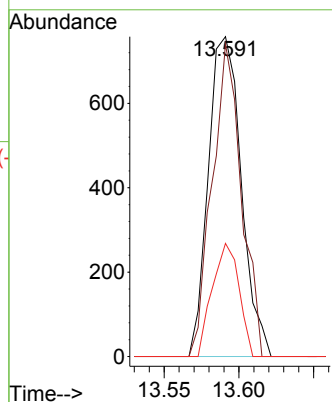
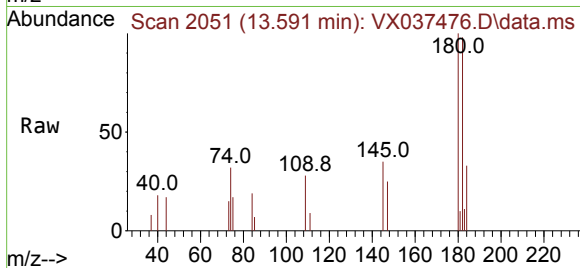
Tgt Ion:180 Resp: 1161

Ion Ratio Lower Upper

180 100

182 86.6 48.3 144.8

145 28.7 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.594 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

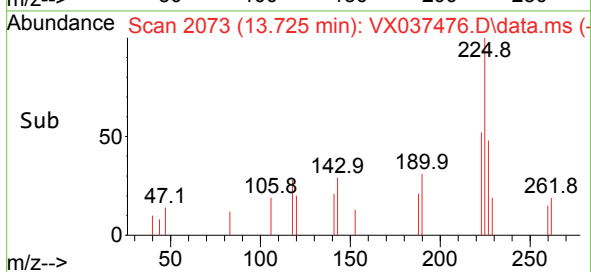
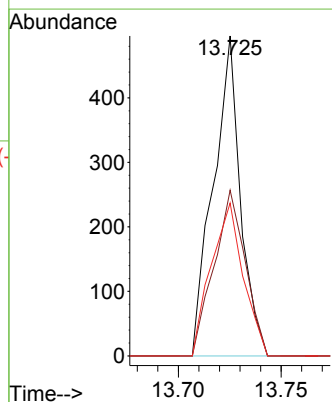
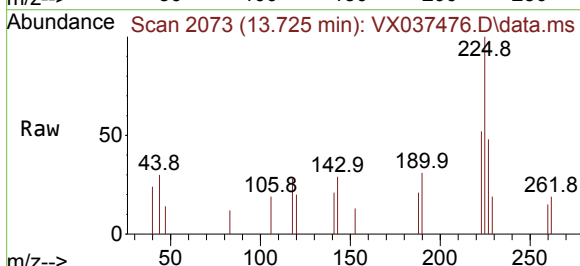
Tgt Ion:225 Resp: 454

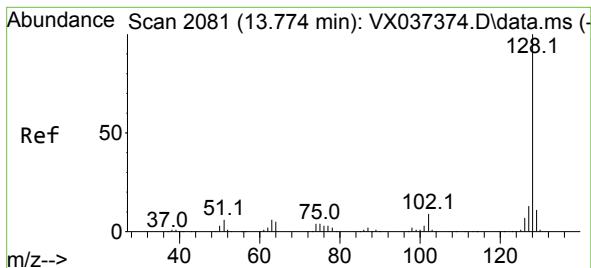
Ion Ratio Lower Upper

225 100

223 59.7 31.1 93.2

227 56.6 32.5 97.5





#95

Naphthalene

Concen: 0.219 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

Instrument :

MSVOA\_X

ClientSampleId :

VX0902WBL02

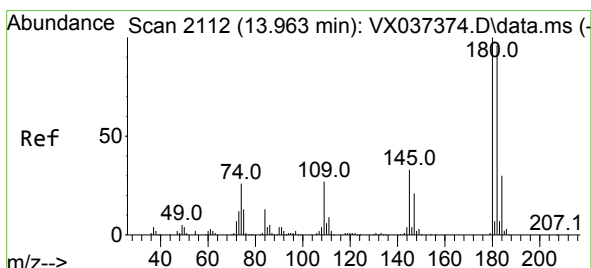
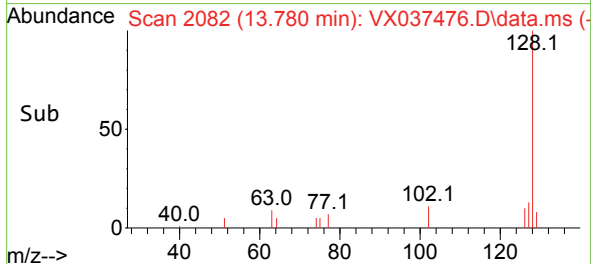
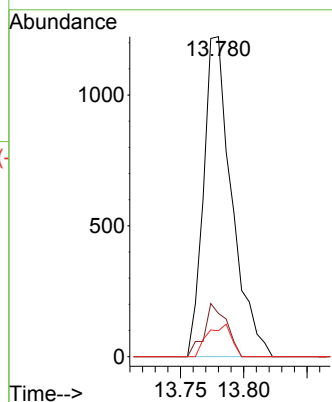
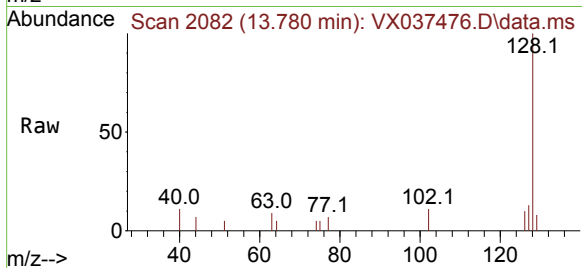
Tgt Ion:128 Resp: 1894

Ion Ratio Lower Upper

128 100

127 13.3 10.3 15.5

129 8.6 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 0.604 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.000 min

Lab File: VX037476.D

Acq: 02 Sep 2023 12:25

Tgt Ion:180 Resp: 1188

Ion Ratio Lower Upper

180 100

182 100.8 46.9 140.6

145 38.9 17.8 53.5

