

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY082123\  
 Data File : VY015215.D  
 Acq On : 21 Aug 2023 13:04  
 Operator : SY/MD  
 Sample : 04080-01  
 Misc : 5.04g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Aug 22 01:53:01 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y081423S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 14 12:43:26 2023  
 Response via : Initial Calibration

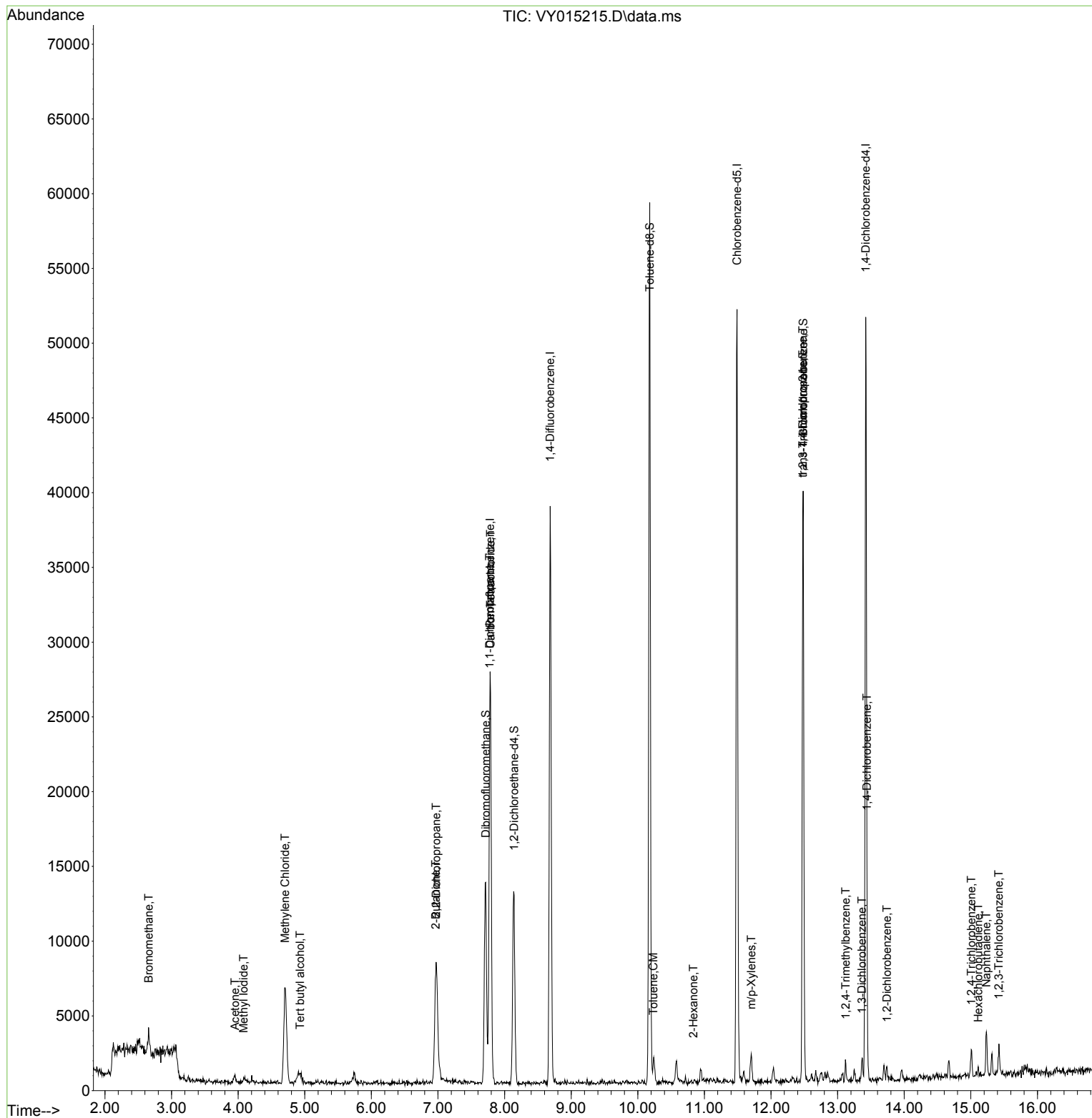
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 22048    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 33439    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 28687    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 13152    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 10380    | 39.219    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 78.440%  |
| 35) Dibromofluoromethane      | 7.716  | 113   | 9850     | 45.787    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 91.580%  |
| 50) Toluene-d8                | 10.179 | 98    | 38938    | 48.623    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 97.240%  |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 12196    | 41.696    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 83.400%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.113  | 50    | 321      | Below Cal |        | 92       |
| 5) Bromomethane               | 2.656  | 94    | 695      | 4.140     | ug/l # | 76       |
| 10) Methyl Iodide             | 4.082  | 142   | 539      | 2.988     | ug/l # | 88       |
| 11) Tert butyl alcohol        | 4.930  | 59    | 1032     | 8.001     | ug/l # | 89       |
| 16) Acetone                   | 3.954  | 43    | 675      | 7.807     | ug/l   | 98       |
| 20) Methylene Chloride        | 4.704  | 84    | 5053     | 21.951    | ug/l   | 88       |
| 25) 2-Butanone                | 6.966  | 43    | 477      | 3.896     | ug/l # | 49       |
| 26) 2,2-Dichloropropane       | 6.972  | 77    | 658      | 1.858     | ug/l # | 54       |
| 31) Cyclohexane               | 7.783  | 56    | 448      | Below Cal | #      | 38       |
| 36) 1,1-Dichloropropene       | 7.777  | 75    | 2101     | 8.828     | ug/l # | 42       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 2174     | 7.718     | ug/l # | 17       |
| 52) Toluene                   | 10.234 | 92    | 941      | 1.984     | ug/l   | 79       |
| 59) 2-Hexanone                | 10.837 | 43    | 199      | 1.148     | ug/l # | 61       |
| 68) m/p-Xylenes               | 11.703 | 106   | 785      | 2.257     | ug/l   | 86       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 6989     | 43.739    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 6989     | 96.073    | ug/l # | 10       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105   | 969      | 1.376     | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146   | 607      | 1.485     | ug/l # | 82       |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146   | 667      | 1.626     | ug/l # | 84       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146   | 468      | 1.225     | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180   | 676      | 2.757     | ug/l   | 86       |
| 94) Hexachlorobutadiene       | 15.111 | 225   | 225      | 1.687     | ug/l # | 69       |
| 95) Naphthalene               | 15.233 | 128   | 2626     | 4.299     | ug/l   | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180   | 714      | 3.224     | ug/l   | 85       |
| -----                         |        |       |          |           |        |          |

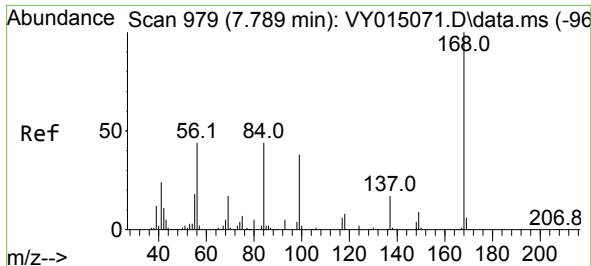
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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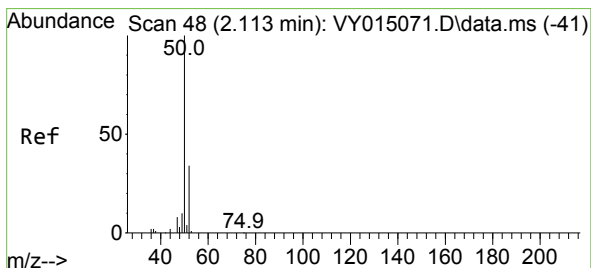
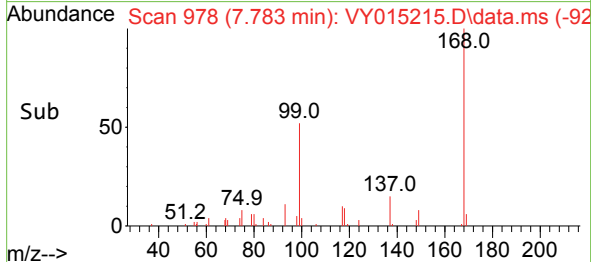
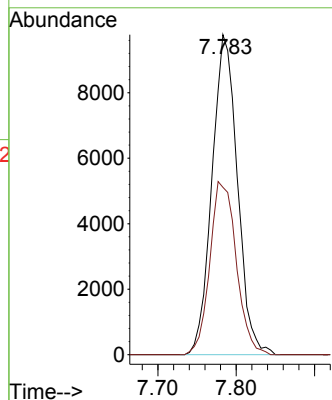
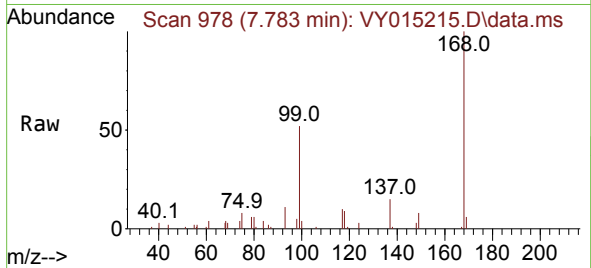




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

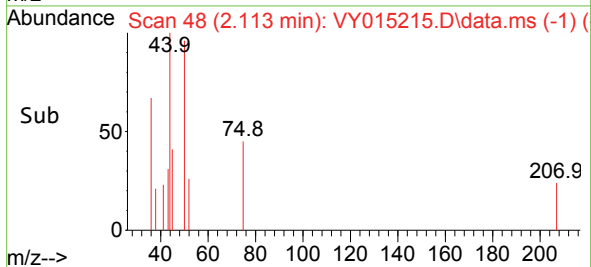
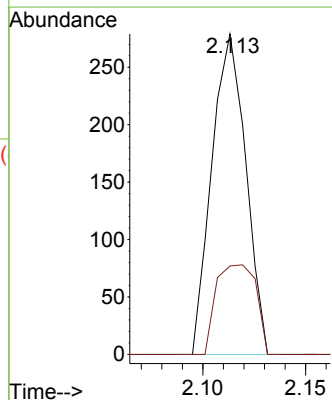
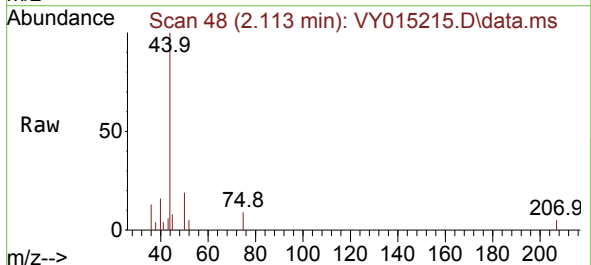
Instrument :  
MSVOA\_Y  
ClientSampleId :

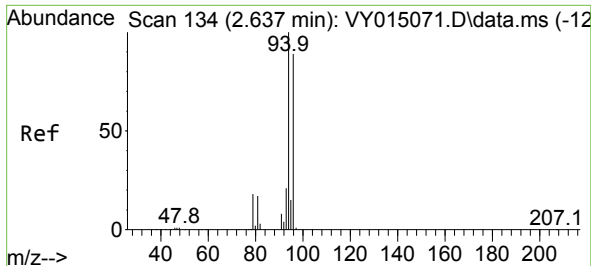
Tgt Ion:168 Resp: 22048  
Ion Ratio Lower Upper  
168 100  
99 52.3 43.4 65.0



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 48  
Delta R.T. 0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

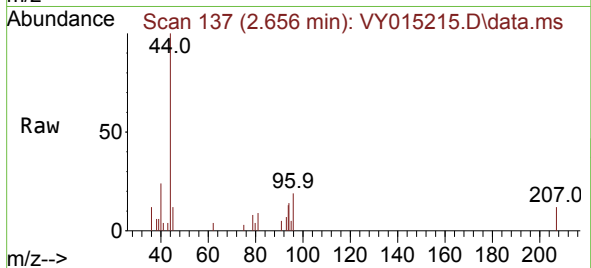
Tgt Ion: 50 Resp: 321  
Ion Ratio Lower Upper  
50 100  
52 27.6 25.4 38.2



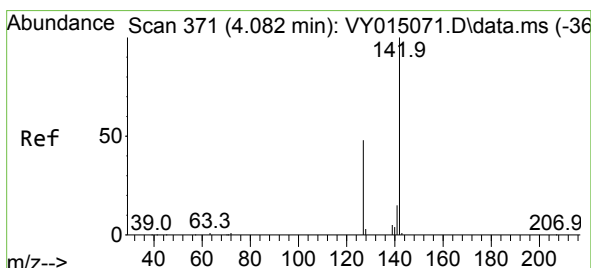
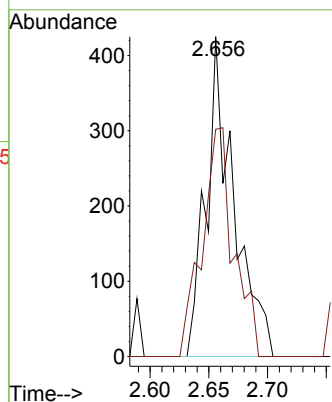
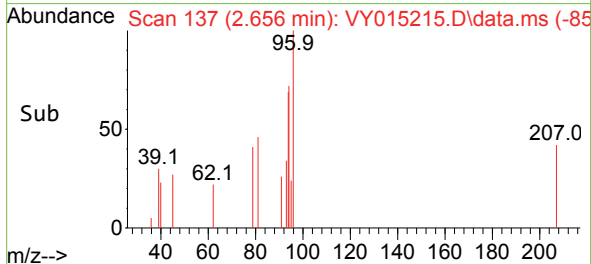


#5  
Bromomethane  
Concen: 4.140 ug/l  
RT: 2.656 min Scan# 11  
Delta R.T. 0.019 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

Instrument :  
MSVOA\_Y  
ClientSampleId :

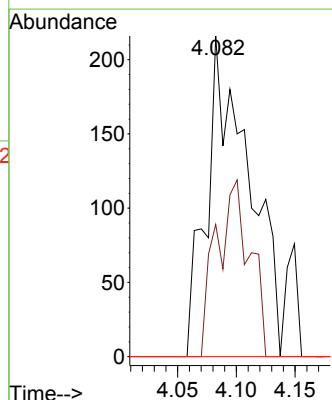
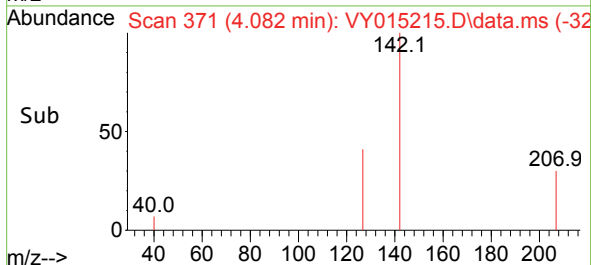
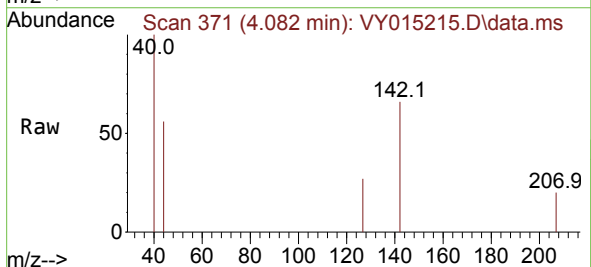


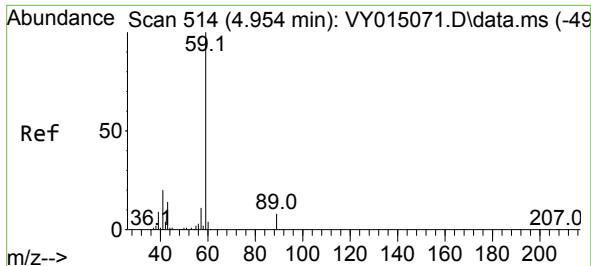
Tgt Ion: 94 Resp: 695  
Ion Ratio Lower Upper  
94 100  
96 71.1 75.8 113.6#



#10  
Methyl Iodide  
Concen: 2.988 ug/l  
RT: 4.082 min Scan# 371  
Delta R.T. 0.000 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

Tgt Ion:142 Resp: 539  
Ion Ratio Lower Upper  
142 100  
127 43.8 37.6 56.4  
141 0.0 11.8 17.8#





#11

Tert butyl alcohol

Concen: 8.001 ug/l

RT: 4.930 min Scan# 51

Delta R.T. -0.018 min

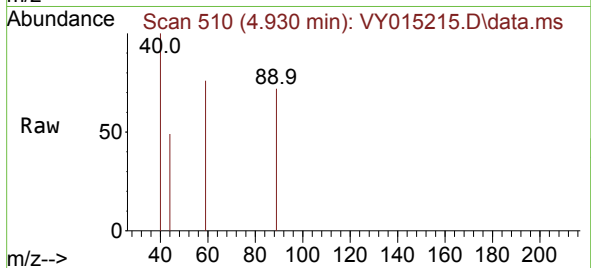
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Acq: 21 Aug 2023 13:04

Instrument :

MSVOA\_Y

ClientSampleId :

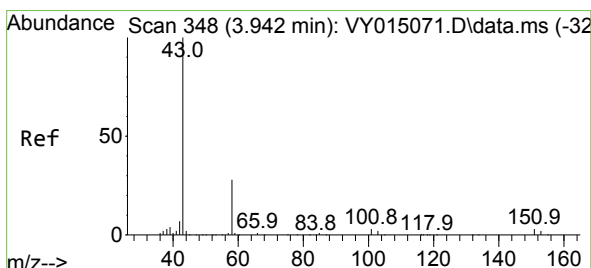
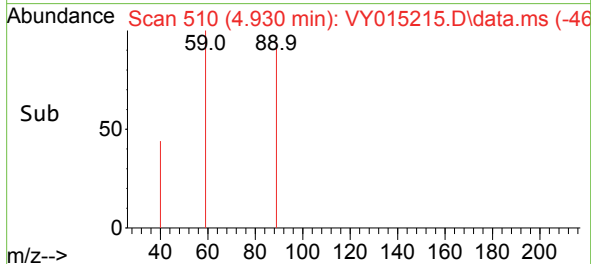
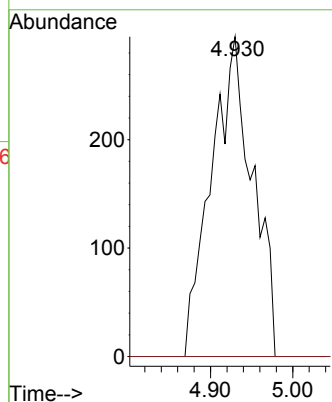


Tgt Ion: 59 Resp: 1032

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#16

Acetone

Concen: 7.807 ug/l

RT: 3.954 min Scan# 350

Delta R.T. 0.012 min

Lab File: VY015215.D

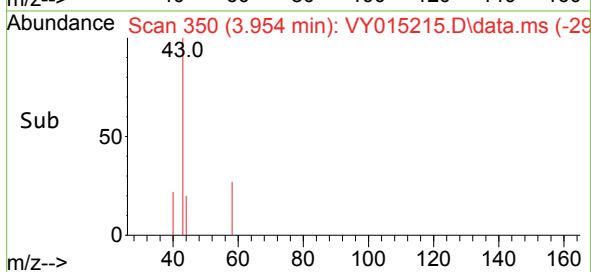
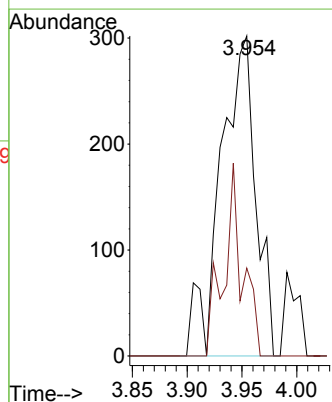
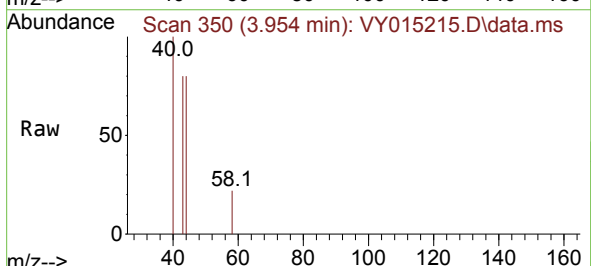
Acq: 21 Aug 2023 13:04

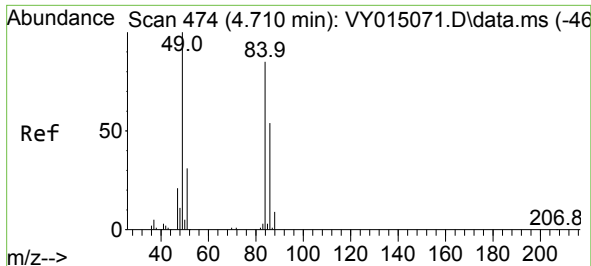
Tgt Ion: 43 Resp: 675

Ion Ratio Lower Upper

43 100

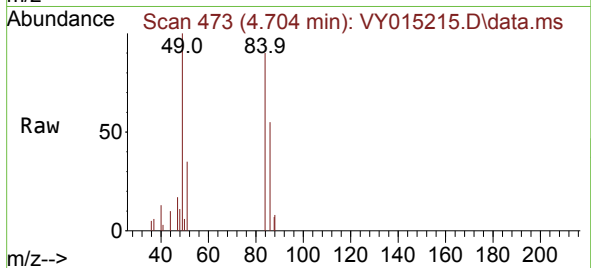
58 27.5 22.7 34.1



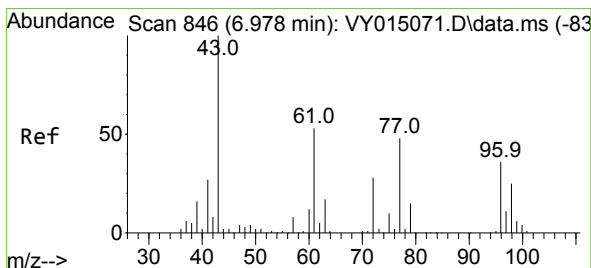
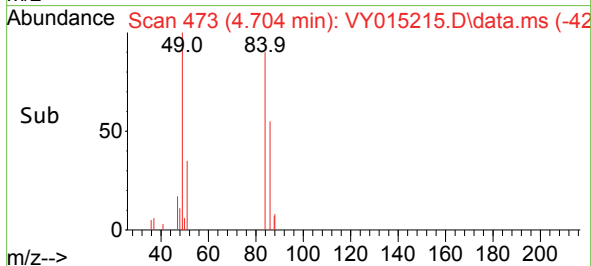
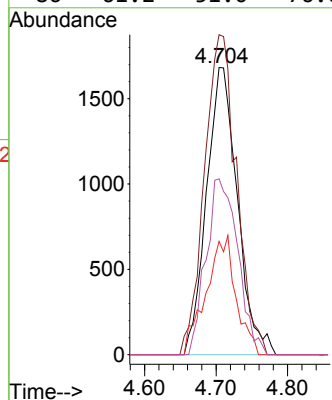


#20  
Methylene Chloride  
Concen: 21.951 ug/l  
RT: 4.704 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

Instrument :  
MSVOA\_Y  
ClientSampleId :

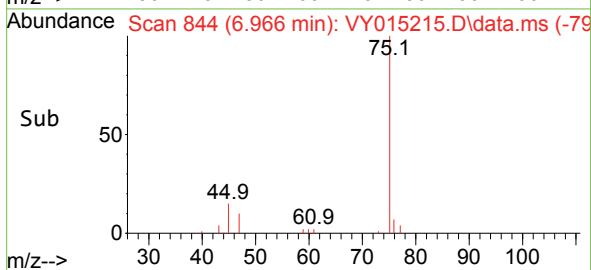
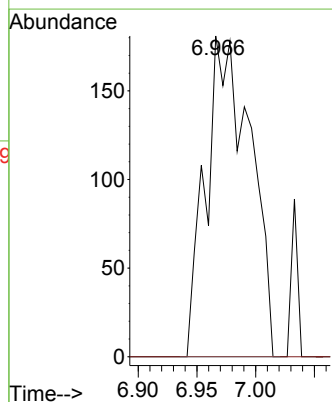
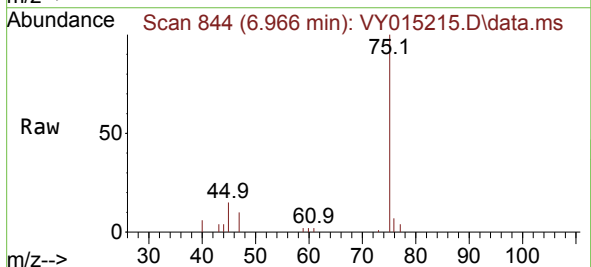


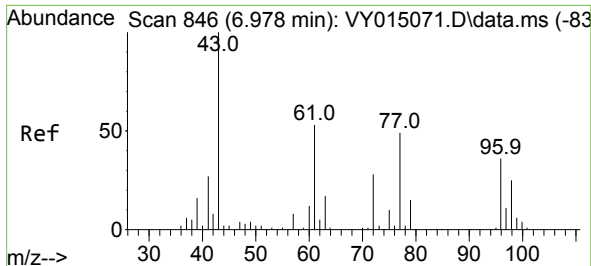
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 5053  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 111.4    | 106.9 160.3 |
| 51 39.5     | 33.2 49.8   |
| 86 61.2     | 51.0 76.6   |



#25  
2-Butanone  
Concen: 3.896 ug/l  
RT: 6.966 min Scan# 844  
Delta R.T. -0.012 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

|             |           |       |  |
|-------------|-----------|-------|--|
| Tgt Ion: 43 | Resp: 477 |       |  |
| Ion Ratio   | Lower     | Upper |  |
| 43 100      |           |       |  |
| 72 0.0      | 20.5      | 30.7# |  |





#26

2,2-Dichloropropane

Concen: 1.858 ug/l

RT: 6.972 min Scan# 846

Delta R.T. 0.000 min

Lab File: VY015215.D

Acq: 21 Aug 2023 13:04

Instrument :

MSVOA\_Y

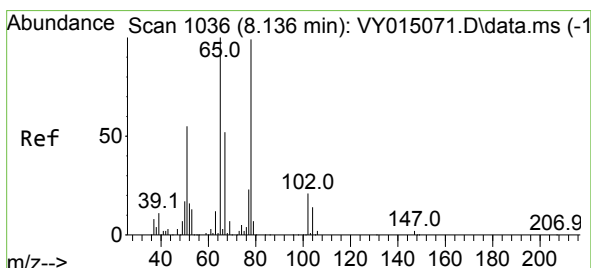
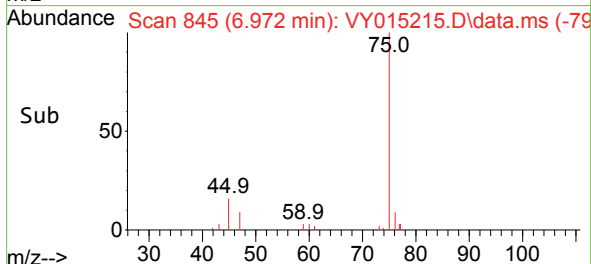
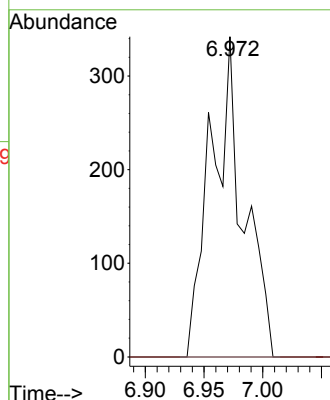
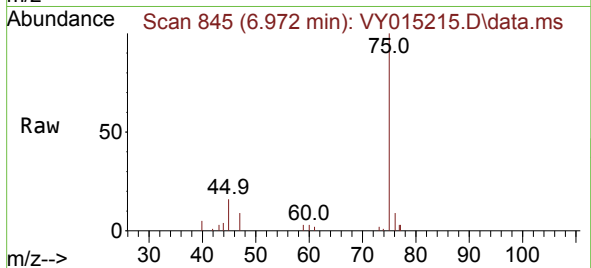
ClientSampleId :

Tgt Ion: 77 Resp: 658

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#



#33

1,2-Dichloroethane-d4

Concen: 39.219 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. 0.006 min

Lab File: VY015215.D

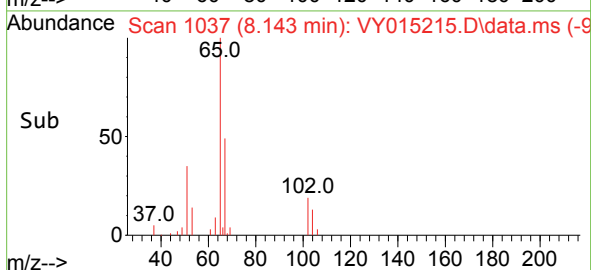
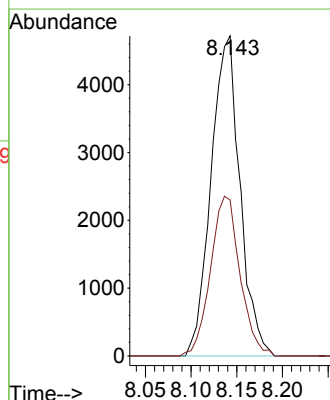
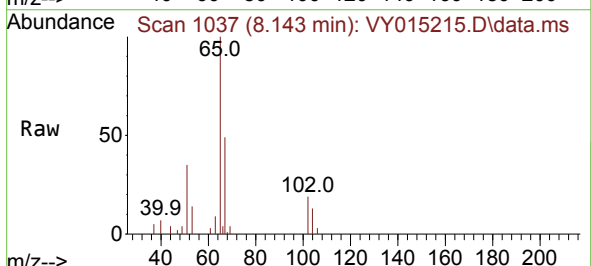
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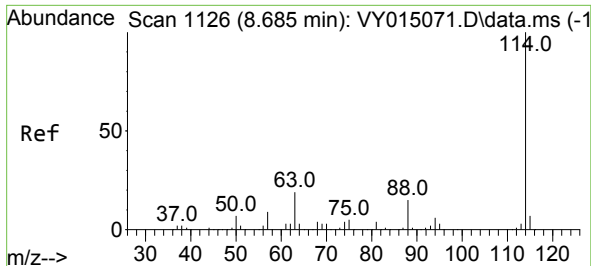
Tgt Ion: 65 Resp: 10380

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.8

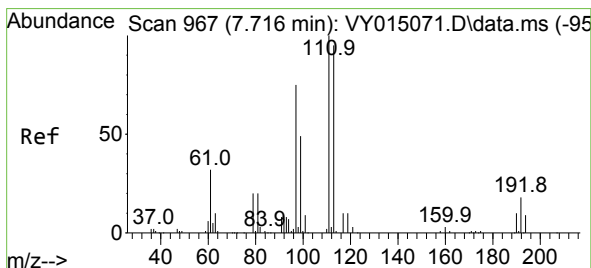
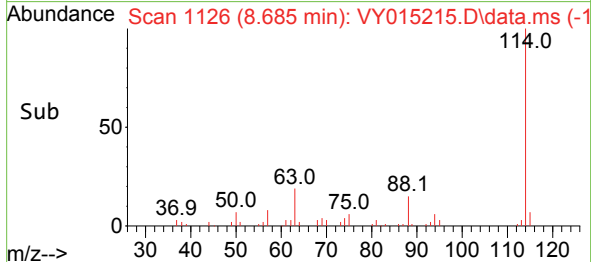
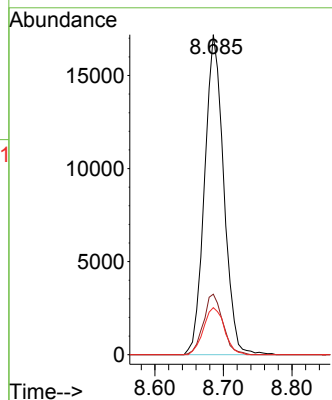
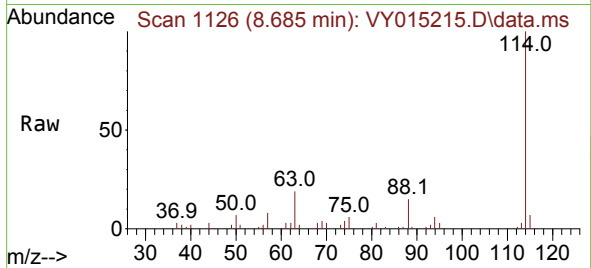




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

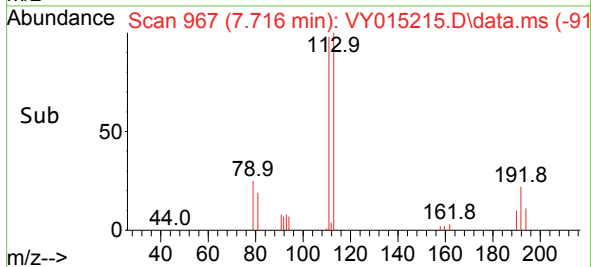
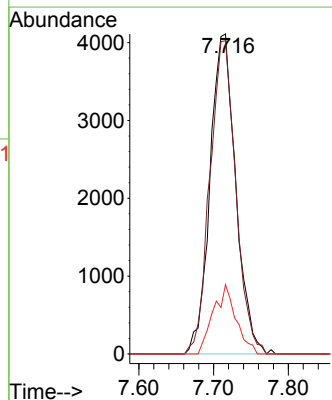
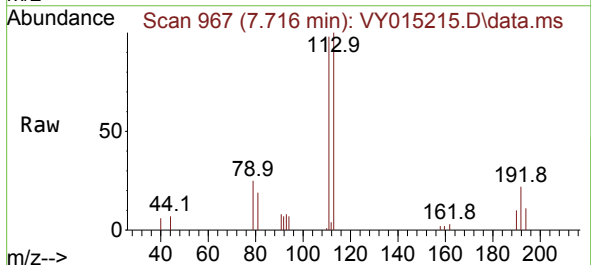
Instrument :  
MSVOA\_Y  
ClientSampleId :

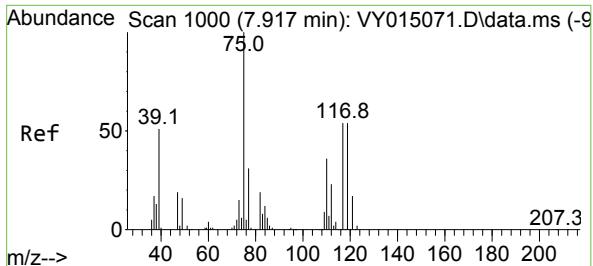
Tgt Ion:114 Resp: 33439  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 42.4  
88 14.7 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 45.787 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. 0.000 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

Tgt Ion:113 Resp: 9850  
Ion Ratio Lower Upper  
113 100  
111 98.2 81.3 121.9  
192 19.1 16.9 25.3





#36

1,1-Dichloropropene

Concen: 8.828 ug/l

RT: 7.777 min Scan# 91

Delta R.T. -0.134 min

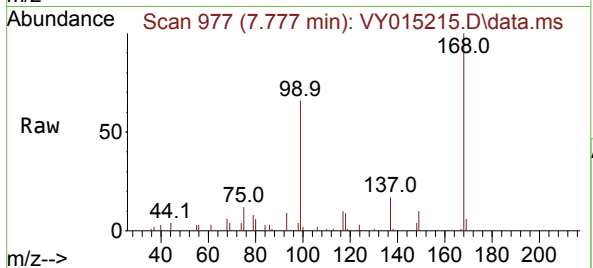
Lab File: VY015215.D

Acq: 21 Aug 2023 13:04

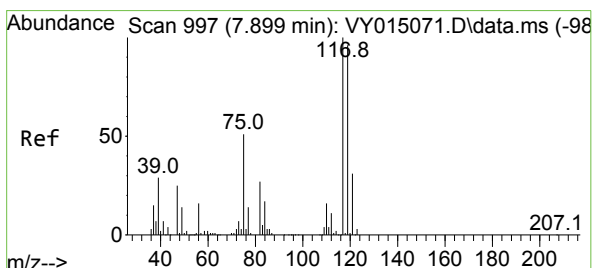
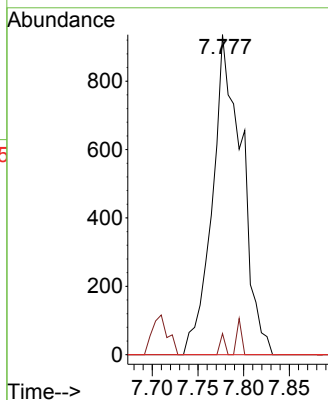
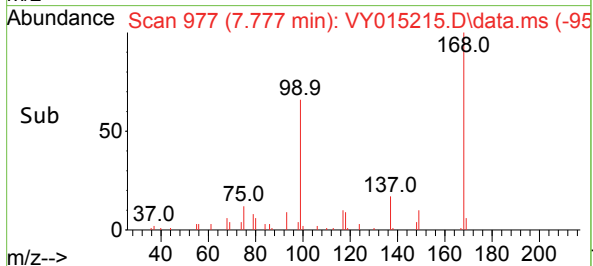
Instrument :

MSVOA\_Y

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 2101     |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 1.1 17.8 53.5# |
| 77          | 0.0 24.4 36.6# |



#38

Carbon Tetrachloride

Concen: 7.718 ug/l

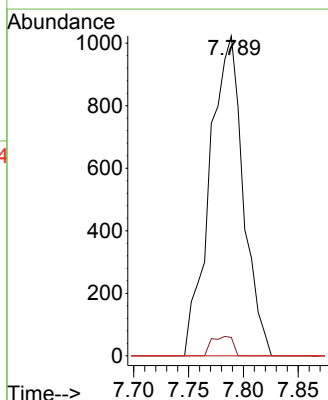
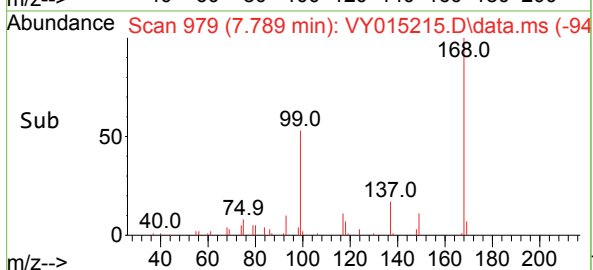
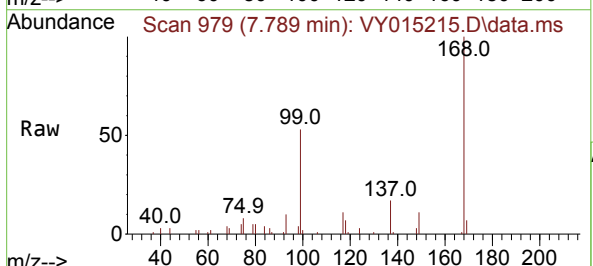
RT: 7.789 min Scan# 979

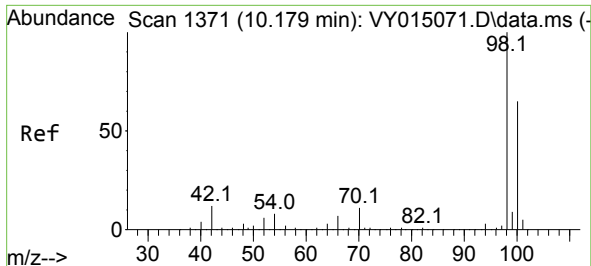
Delta R.T. -0.110 min

Lab File: VY015215.D

Acq: 21 Aug 2023 13:04

|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 2174      |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 119          | 5.8 76.4 114.6# |
| 121          | 0.0 25.8 38.6#  |

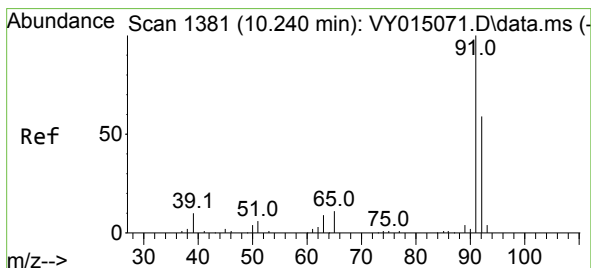
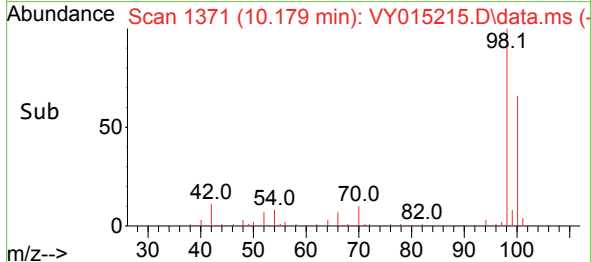
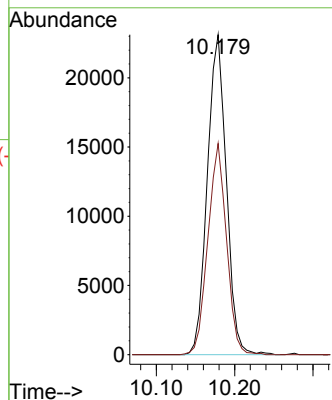
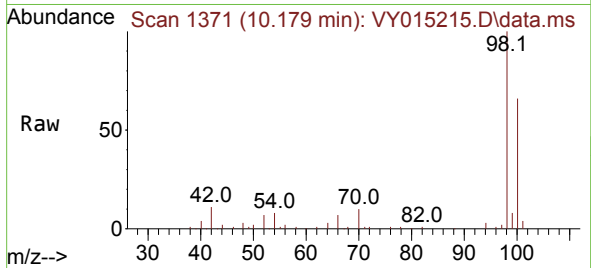




#50  
Toluene-d8  
Concen: 48.623 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

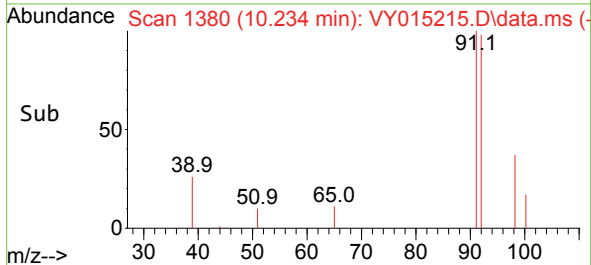
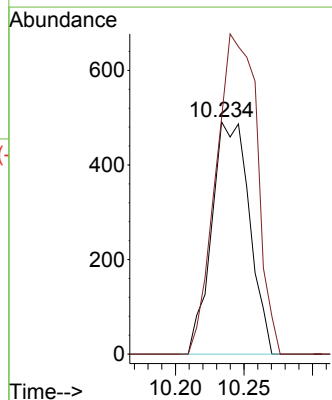
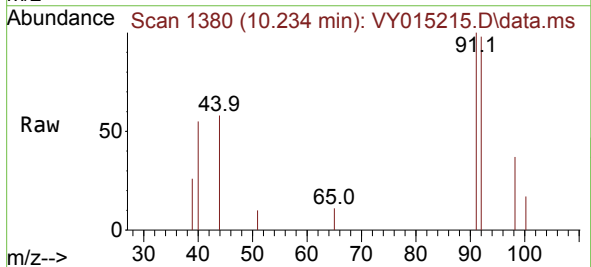
Instrument :  
MSVOA\_Y  
ClientSampleId :

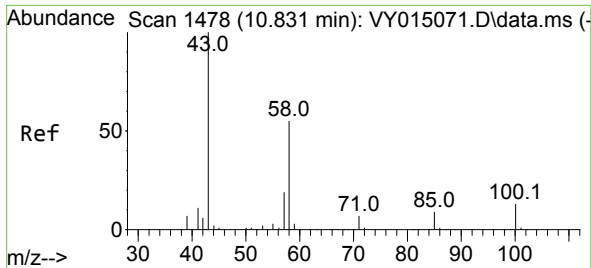
Tgt Ion: 98 Resp: 38938  
Ion Ratio Lower Upper  
98 100  
100 64.7 50.1 75.1



#52  
Toluene  
Concen: 1.984 ug/l  
RT: 10.234 min Scan# 1380  
Delta R.T. -0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

Tgt Ion: 92 Resp: 941  
Ion Ratio Lower Upper  
92 100  
91 149.5 143.8 215.6

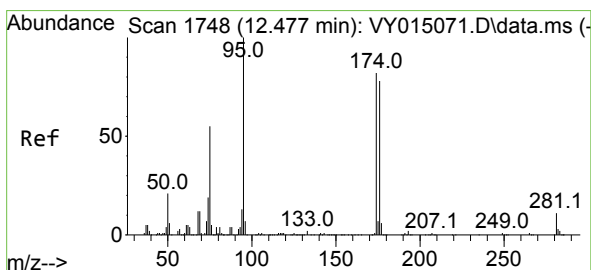
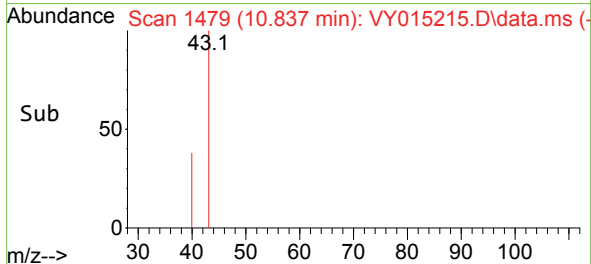
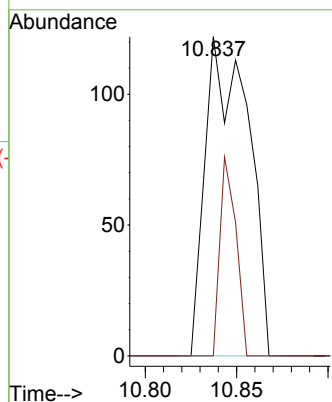
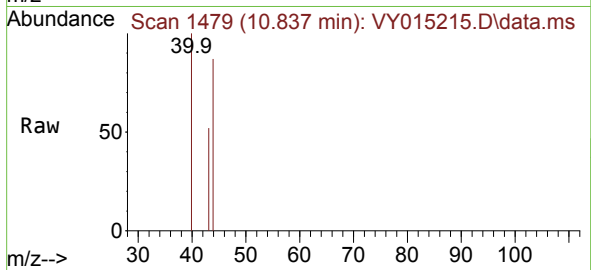




#59  
2-Hexanone  
Concen: 1.148 ug/l  
RT: 10.837 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

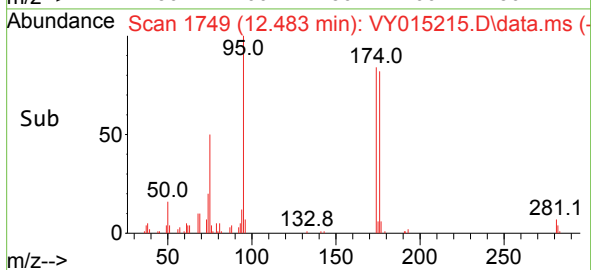
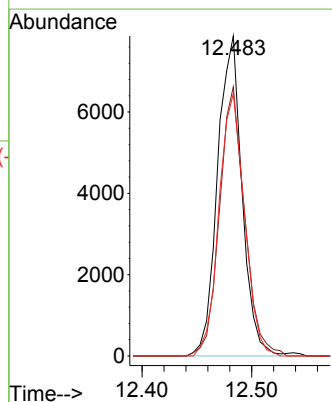
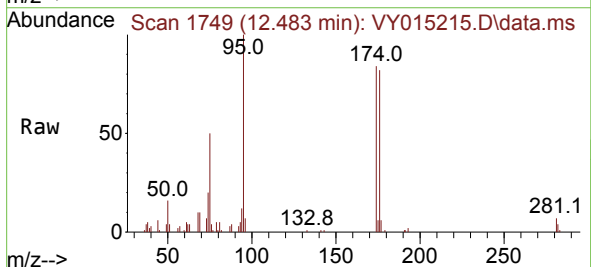
Instrument :  
MSVOA\_Y  
ClientSampleId :

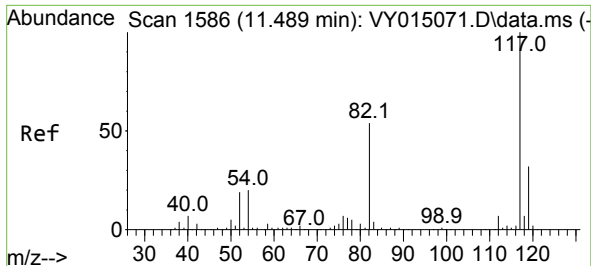
Tgt Ion: 43 Resp: 199  
Ion Ratio Lower Upper  
43 100  
58 23.1 25.1 75.3#



#62  
4-Bromofluorobenzene  
Concen: 41.696 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

Tgt Ion: 95 Resp: 12196  
Ion Ratio Lower Upper  
95 100  
174 86.4 0.0 178.2  
176 85.2 0.0 173.8

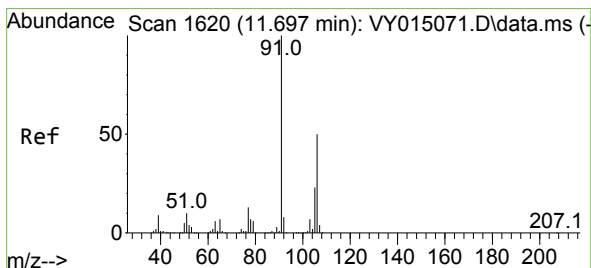
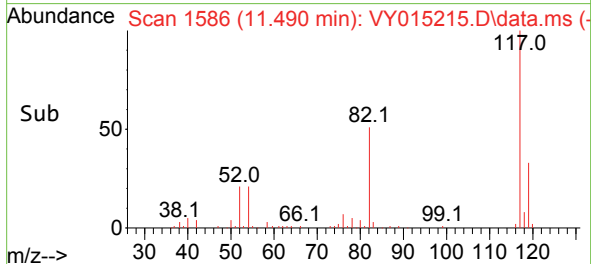
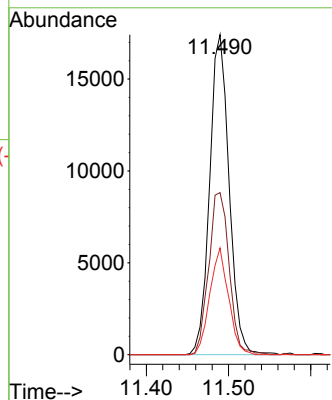
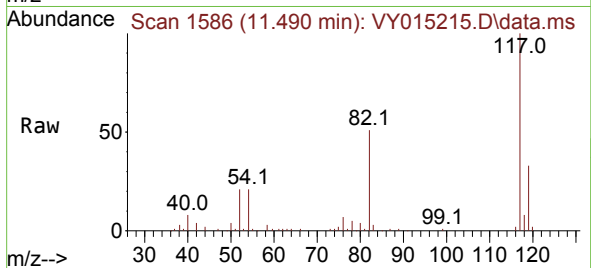




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. 0.000 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

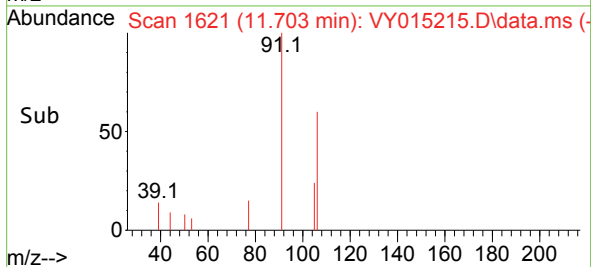
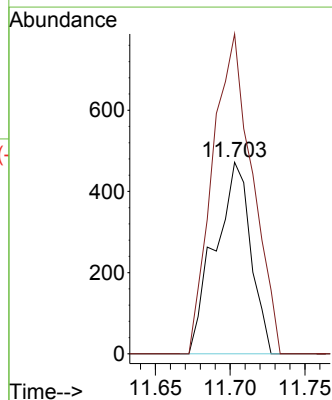
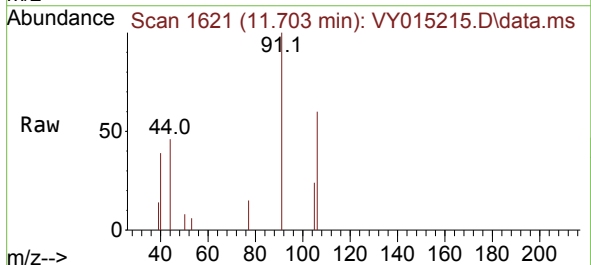
Instrument :  
MSVOA\_Y  
ClientSampleId :

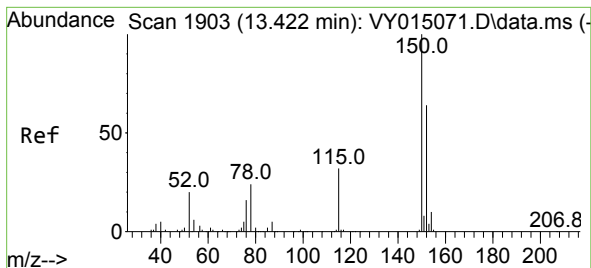
Tgt Ion:117 Resp: 28687  
Ion Ratio Lower Upper  
117 100  
82 50.7 43.4 65.0  
119 33.4 26.3 39.5



#68  
m/p-Xylenes  
Concen: 2.257 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. 0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

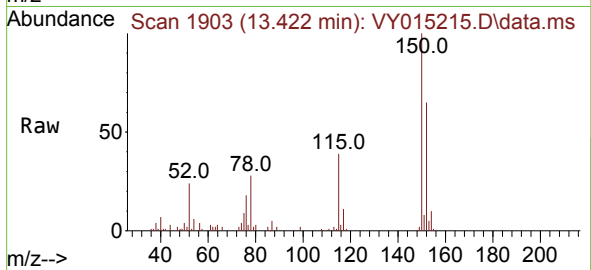
Tgt Ion:106 Resp: 785  
Ion Ratio Lower Upper  
106 100  
91 185.4 166.1 249.1



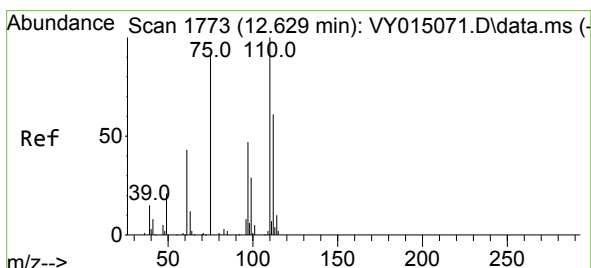
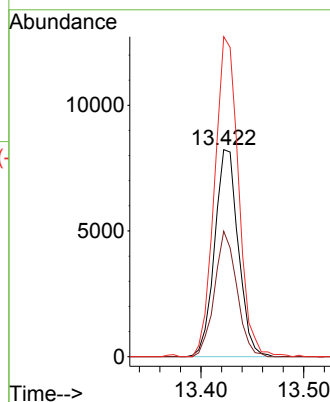
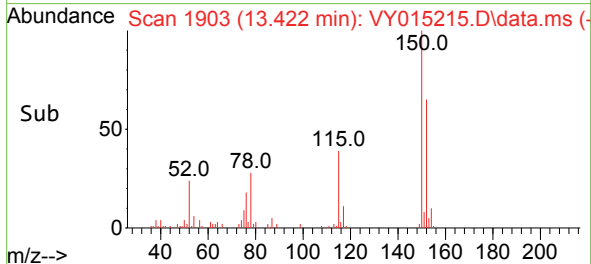


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1903  
 Delta R.T. 0.000 min  
 Lab File: VY015215.D  
 Acq: 21 Aug 2023 13:04

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

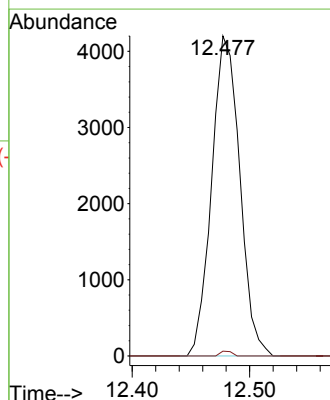
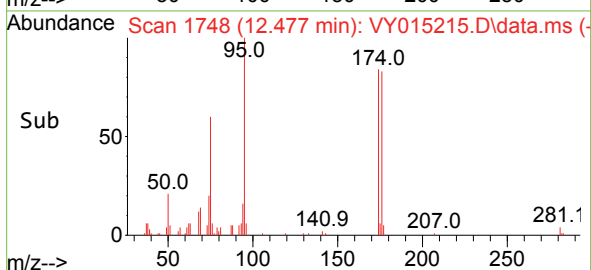
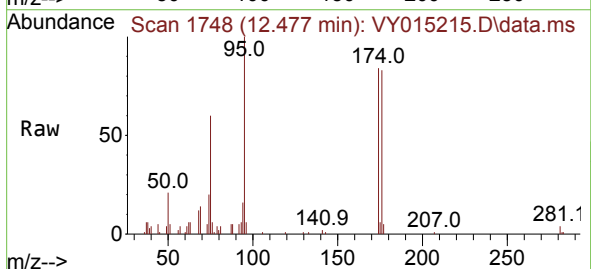


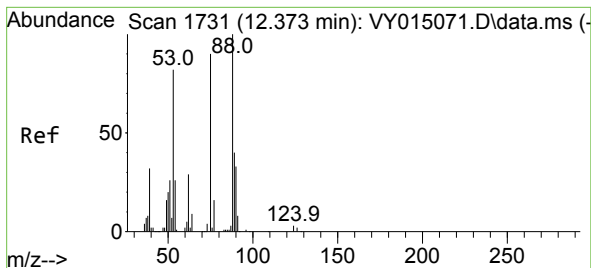
Tgt Ion:152 Resp: 13152  
 Ion Ratio Lower Upper  
 152 100  
 115 57.1 28.8 86.5  
 150 156.5 0.0 348.8



#76  
 1,2,3-Trichloropropane  
 Concen: 43.739 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.152 min  
 Lab File: VY015215.D  
 Acq: 21 Aug 2023 13:04

Tgt Ion: 75 Resp: 6989  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 0.0 0.0#

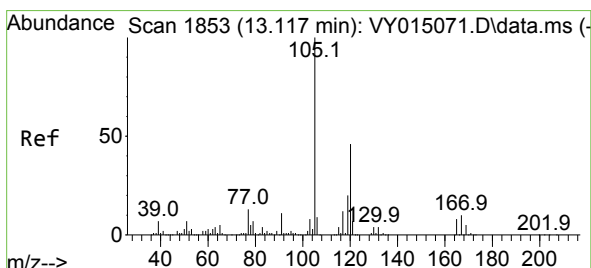
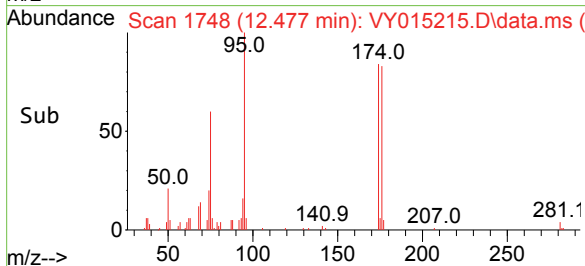
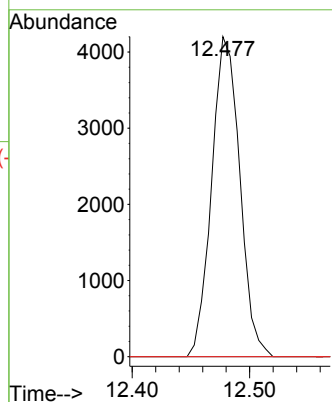
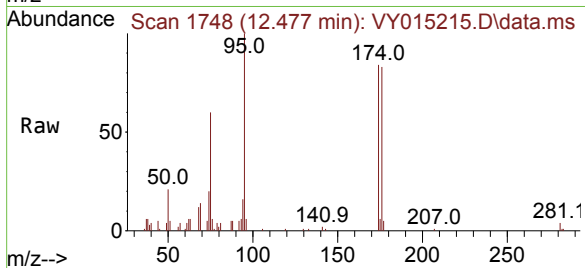




#81  
trans-1,4-Dichloro-2-butene  
Concen: 96.073 ug/l  
RT: 12.477 min Scan# 1731  
Delta R.T. 0.104 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

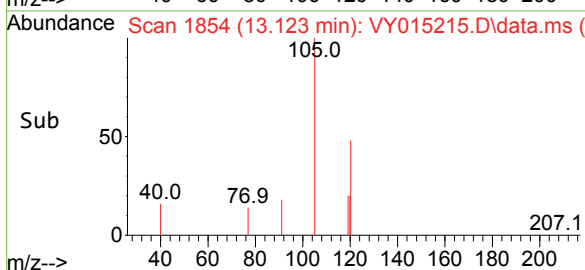
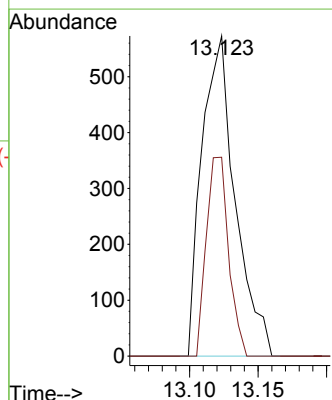
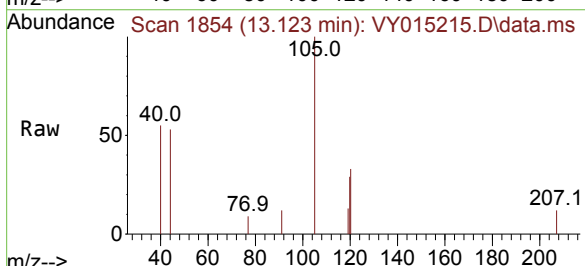
Instrument :  
MSVOA\_Y  
ClientSampleId :

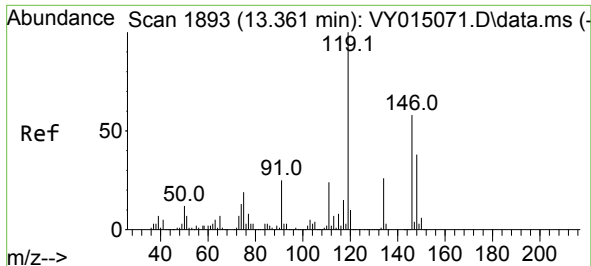
Tgt Ion: 75 Resp: 6989  
Ion Ratio Lower Upper  
75 100  
53 0.0 77.8 116.8#  
89 0.0 37.4 56.0#



#84  
1,2,4-Trimethylbenzene  
Concen: 1.376 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

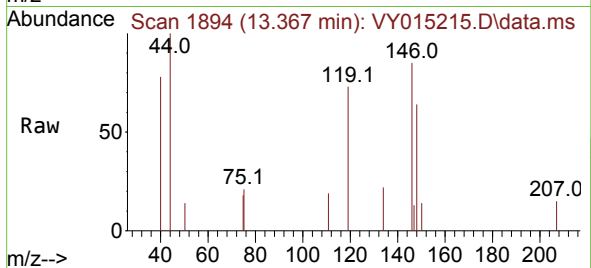
Tgt Ion: 105 Resp: 969  
Ion Ratio Lower Upper  
105 100  
120 41.5 22.2 66.6



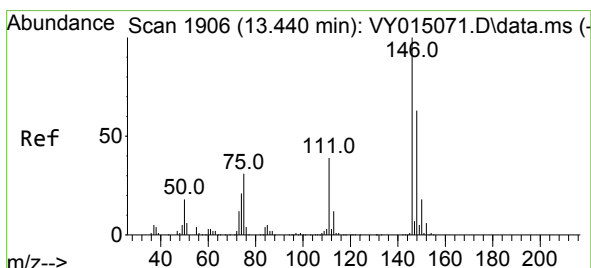
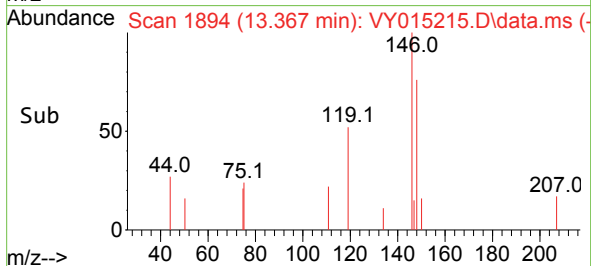
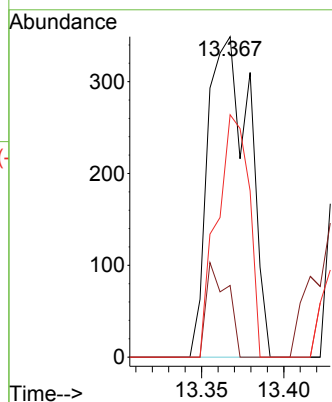


#87  
 1,3-Dichlorobenzene  
 Concen: 1.485 ug/l  
 RT: 13.367 min Scan# 1893  
 Delta R.T. 0.006 min  
 Lab File: VY015215.D  
 Acq: 21 Aug 2023 13:04

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

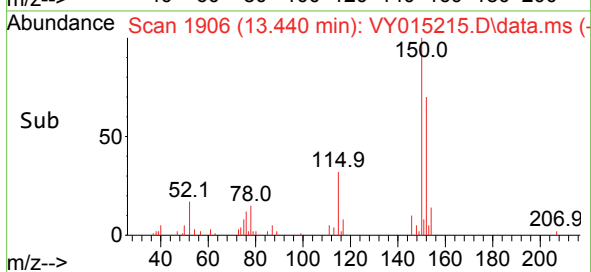
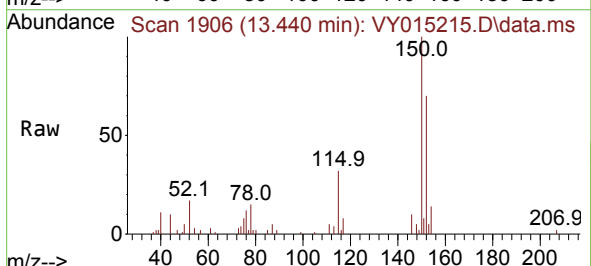
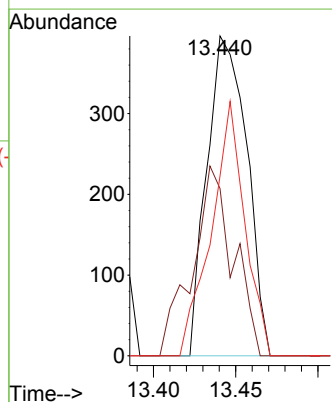


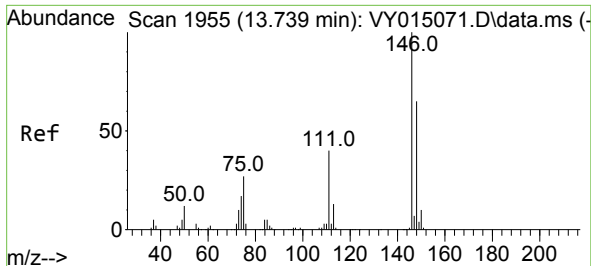
Tgt Ion:146 Resp: 607  
 Ion Ratio Lower Upper  
 146 100  
 111 15.2 19.4 58.2#  
 148 59.0 31.9 95.5



#88  
 1,4-Dichlorobenzene  
 Concen: 1.626 ug/l  
 RT: 13.440 min Scan# 1906  
 Delta R.T. -0.006 min  
 Lab File: VY015215.D  
 Acq: 21 Aug 2023 13:04

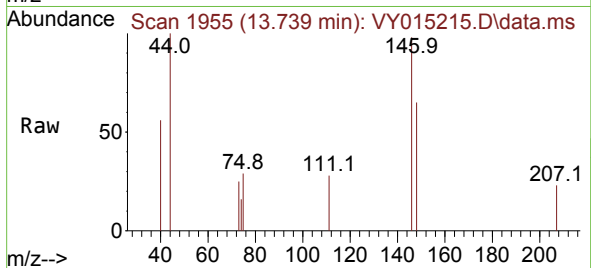
Tgt Ion:146 Resp: 667  
 Ion Ratio Lower Upper  
 146 100  
 111 60.7 18.9 56.7#  
 148 66.9 32.1 96.5



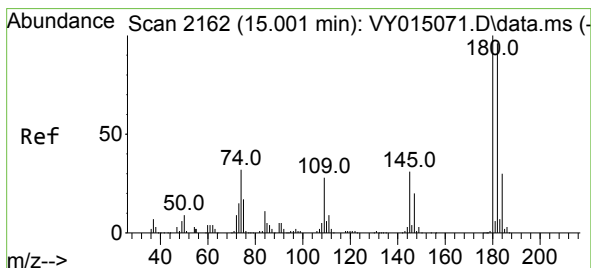
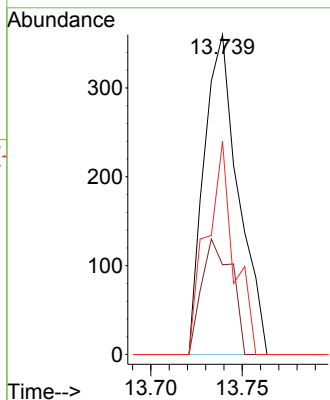
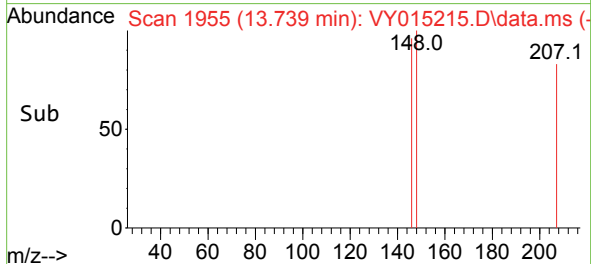


#91  
1,2-Dichlorobenzene  
Concen: 1.225 ug/l  
RT: 13.739 min Scan# 1955  
Delta R.T. 0.006 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04

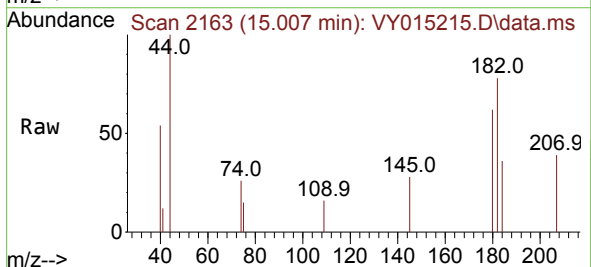
Instrument :  
MSVOA\_Y  
ClientSampleId :



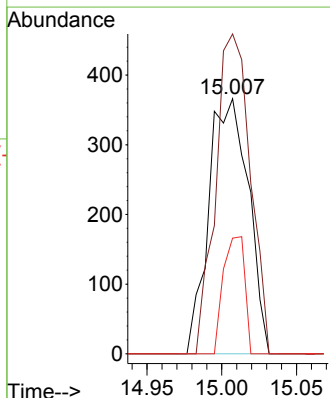
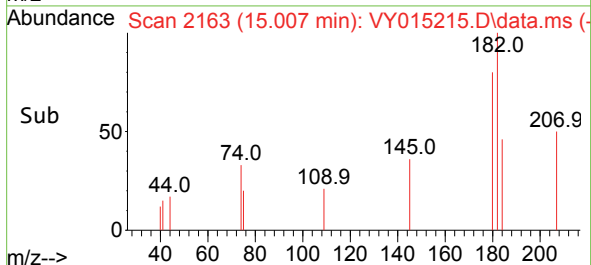
Tgt Ion:146 Resp: 468  
Ion Ratio Lower Upper  
146 100  
111 31.6 19.7 59.0  
148 53.4 32.0 96.2

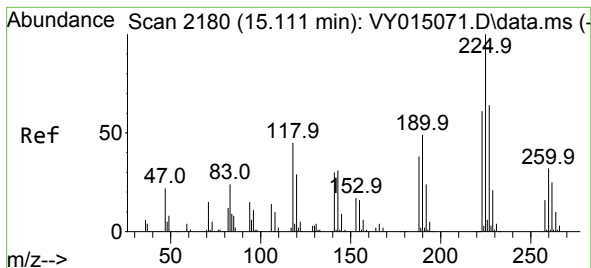


#93  
1,2,4-Trichlorobenzene  
Concen: 2.757 ug/l  
RT: 15.007 min Scan# 2163  
Delta R.T. 0.000 min  
Lab File: VY015215.D  
Acq: 21 Aug 2023 13:04



Tgt Ion:180 Resp: 676  
Ion Ratio Lower Upper  
180 100  
182 109.2 47.0 141.2  
145 24.7 14.5 43.5





#94

Hexachlorobutadiene

Concen: 1.687 ug/l

RT: 15.111 min Scan# 2180

Delta R.T. 0.000 min

Lab File: VY015215.D

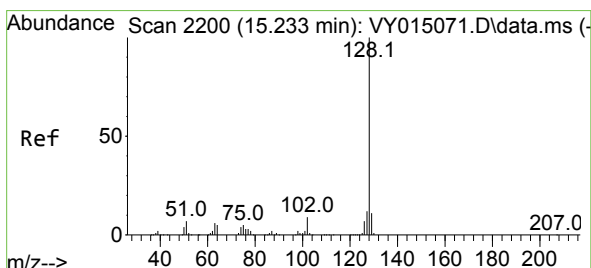
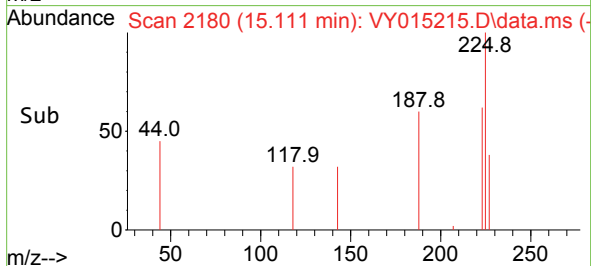
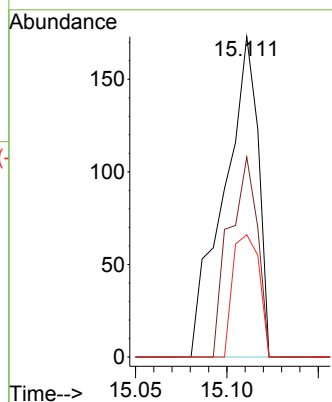
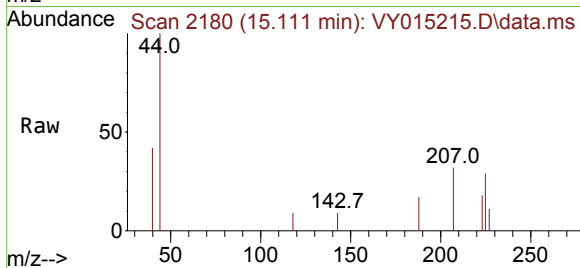
Acq: 21 Aug 2023 13:04

Instrument :

MSVOA\_Y

ClientSampleId :

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 225  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 51.6  | 31.9  | 95.9 |
| 227       | 29.8  | 33.0  | 98.9 |



#95

Naphthalene

Concen: 4.299 ug/l

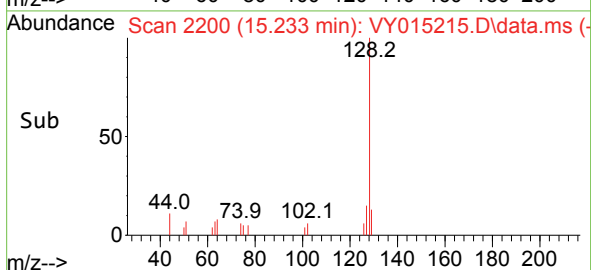
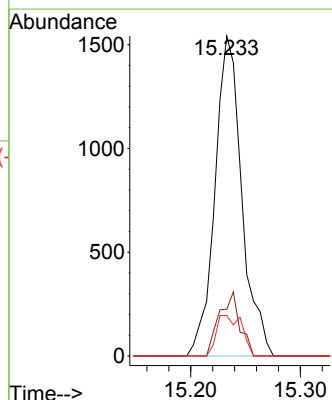
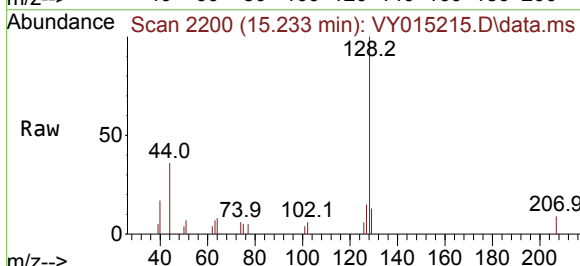
RT: 15.233 min Scan# 2200

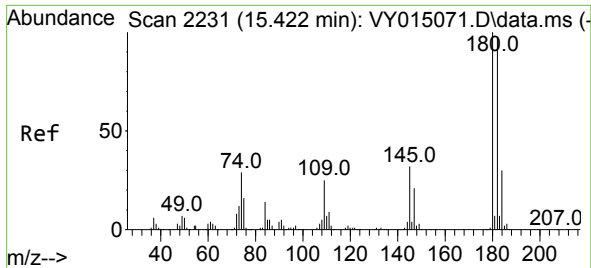
Delta R.T. 0.000 min

Lab File: VY015215.D

Acq: 21 Aug 2023 13:04

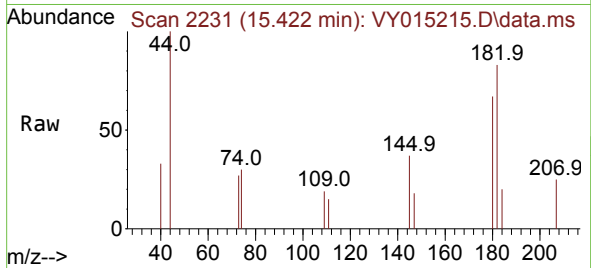
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 2626 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 127       | 15.2  | 10.8  | 16.2 |
| 129       | 11.9  | 8.6   | 13.0 |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 3.224 ug/l  
 RT: 15.422 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VY015215.D  
 Acq: 21 Aug 2023 13:04

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 714   |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 108.1 | 47.3  | 141.8 |
| 145       | 41.0  | 15.4  | 46.2  |

