

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY112222\  
 Data File : VY011553.D  
 Acq On : 22 Nov 2022 17:12  
 Operator : KP/MD  
 Sample : N5718-01RE  
 Misc : 5.05g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Nov 23 04:08:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y111822S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 19 22:37:14 2022  
 Response via : Initial Calibration

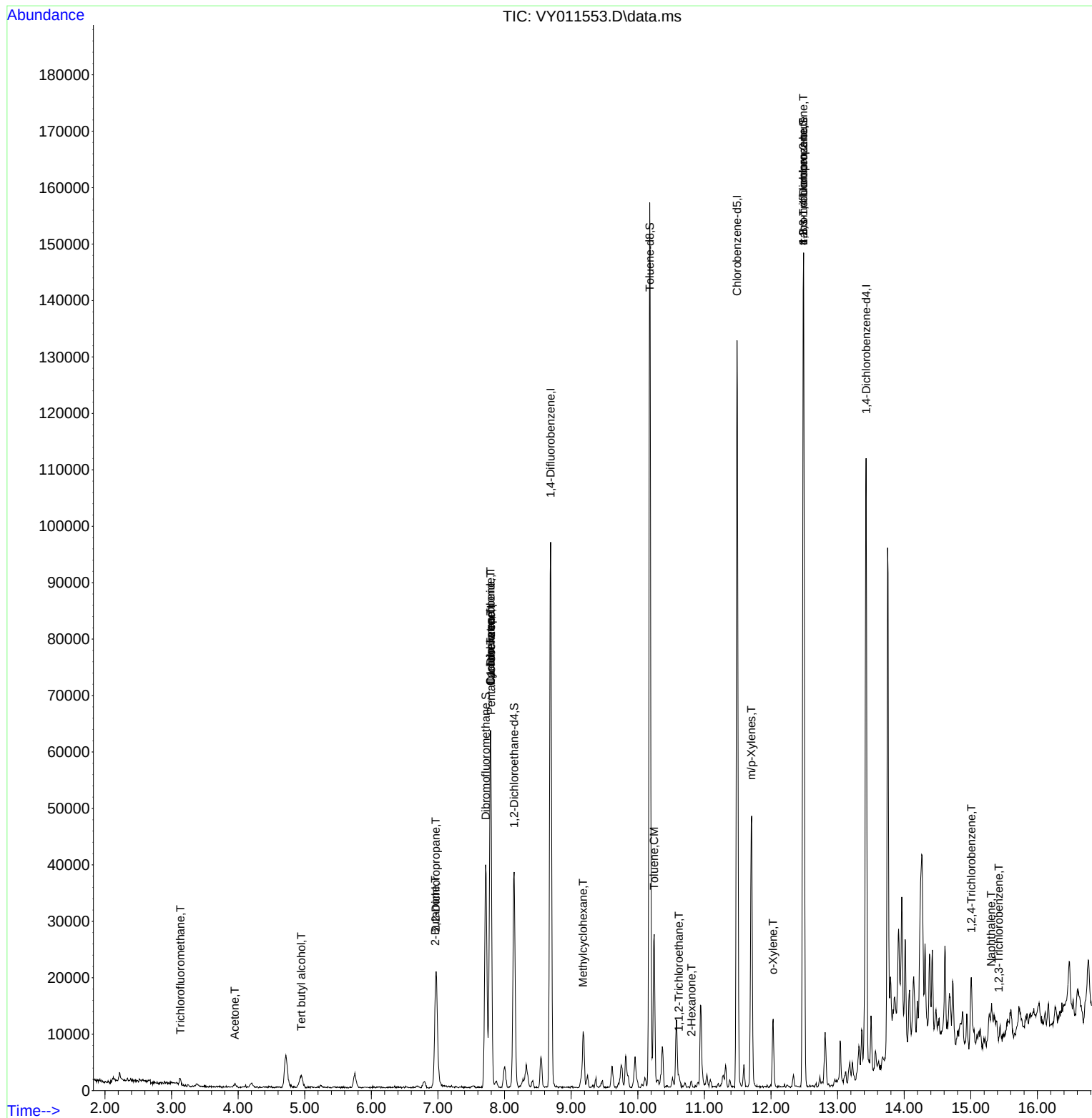
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 45830    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691  | 114   | 80991    | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 71911    | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 26155    | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 29540    | 63.478    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 126.960% |          |
| 35) Dibromofluoromethane      | 7.716  | 113   | 27591    | 55.340    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 110.680% |          |
| 50) Toluene-d8                | 10.179 | 98    | 99029    | 54.659    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 109.320% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 26065    | 38.911    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 77.820%  |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.125  | 50    | 134      | Below Cal | #          | 44       |
| 5) Bromomethane               | 2.668  | 94    | 206      | Below Cal | #          | 69       |
| 7) Trichlorofluoromethane     | 3.131  | 101   | 1246     | 1.639     | ug/l       | 99       |
| 11) Tert butyl alcohol        | 4.948  | 59    | 3800     | 51.615    | ug/l       | 98       |
| 16) Acetone                   | 3.948  | 43    | 864      | 5.716     | ug/l       | 90       |
| 18) Methyl Acetate            | 4.723  | 43    | 66       | Below Cal | #          | 56       |
| 20) Methylene Chloride        | 4.716  | 84    | 4402     | Below Cal |            | 85       |
| 25) 2-Butanone                | 6.960  | 43    | 501      | 2.522     | ug/l #     | 54       |
| 26) 2,2-Dichloropropane       | 6.966  | 77    | 1477     | 1.766     | ug/l #     | 55       |
| 31) Cyclohexane               | 7.789  | 56    | 2931     | 3.800     | ug/l #     | 73       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 3891     | 4.993     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 4576     | 5.248     | ug/l #     | 15       |
| 39) Methylcyclohexane         | 9.179  | 83    | 3252     | 3.739     | ug/l       | 95       |
| 52) Toluene                   | 10.246 | 92    | 11080    | 7.718     | ug/l       | 98       |
| 55) 1,1,2-Trichloroethane     | 10.618 | 97    | 625      | 1.346     | ug/l #     | 15       |
| 59) 2-Hexanone                | 10.807 | 43    | 546      | 1.719     | ug/l #     | 28       |
| 68) m/p-Xylenes               | 11.703 | 106   | 14302    | 13.818    | ug/l       | 97       |
| 69) o-Xylene                  | 12.032 | 106   | 3176     | 3.296     | ug/l       | 90       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 13927    | 49.444    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 13927    | 108.299   | ug/l #     | 8        |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180   | 2790     | 6.311     | ug/l #     | 89       |
| 95) Naphthalene               | 15.306 | 128   | 183      | 4.202     | ug/l       | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180   | 981      | 2.589     | ug/l       | 71       |
| -----                         |        |       |          |           |            |          |

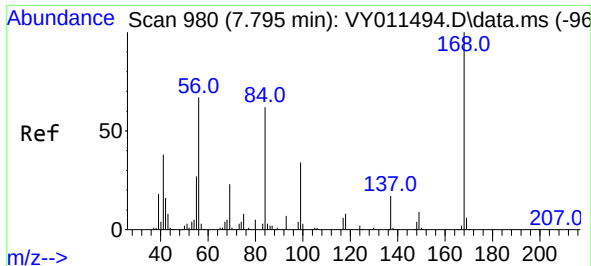
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Nov 19 22:37:14 2022  
Response via : Initial Calibration

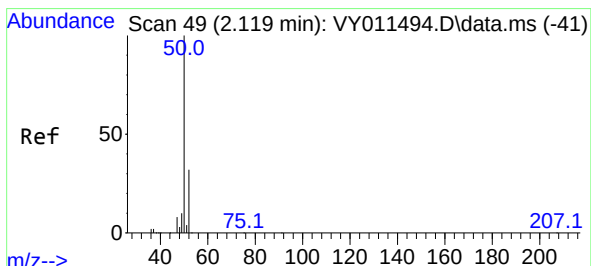
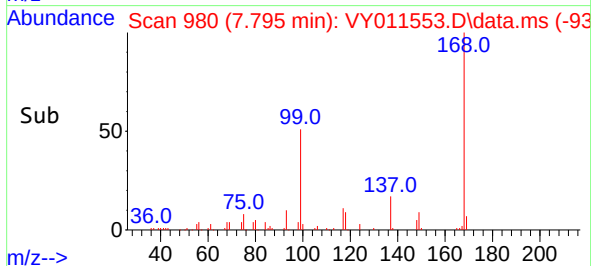
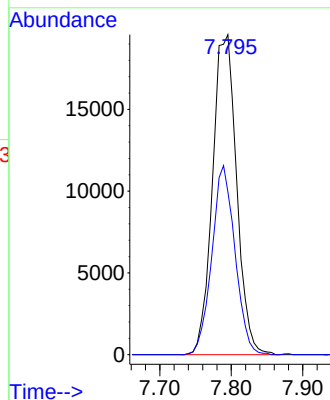
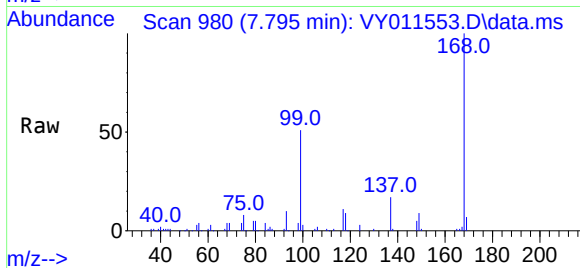




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

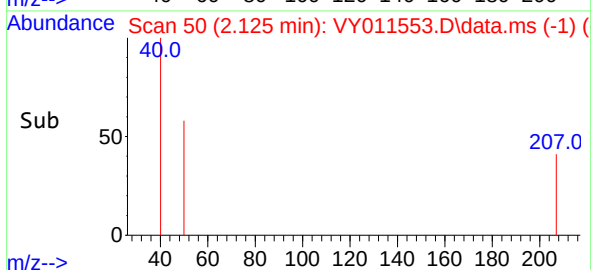
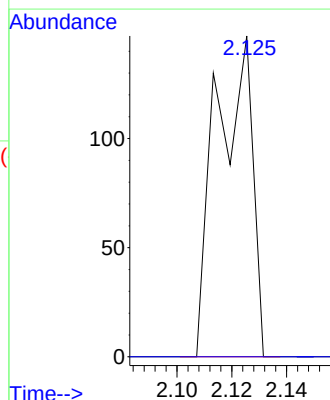
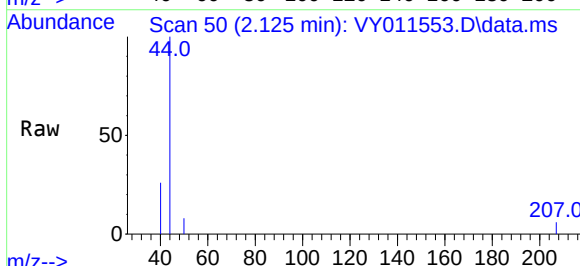
Instrument :  
MSVOA\_Y  
ClientSampleId :

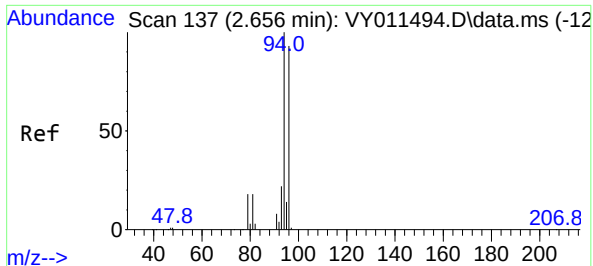
Tgt Ion:168 Resp: 45830  
Ion Ratio Lower Upper  
168 100  
99 50.9 46.9 70.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.125 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion: 50 Resp: 134  
Ion Ratio Lower Upper  
50 100  
52 0.0 24.6 37.0#

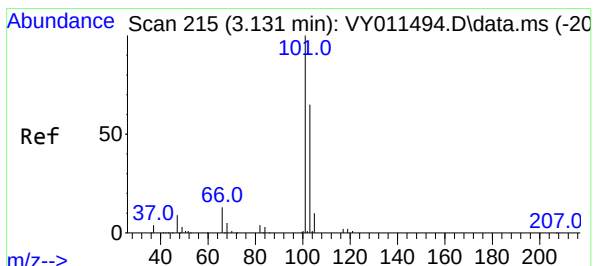
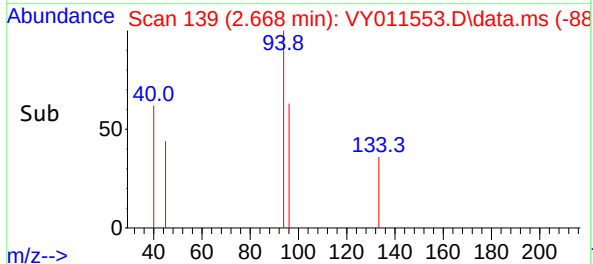
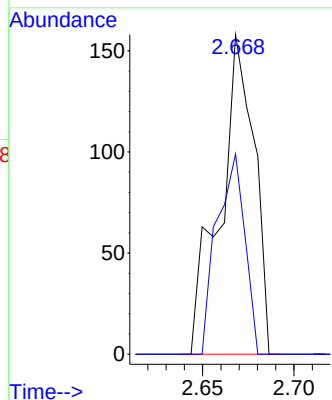
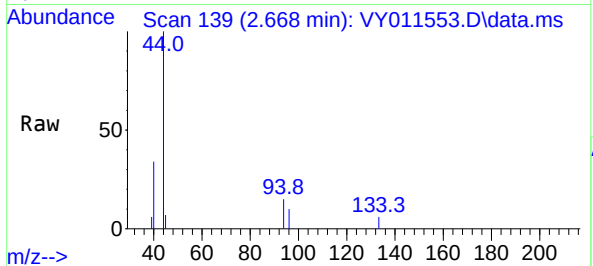




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.668 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

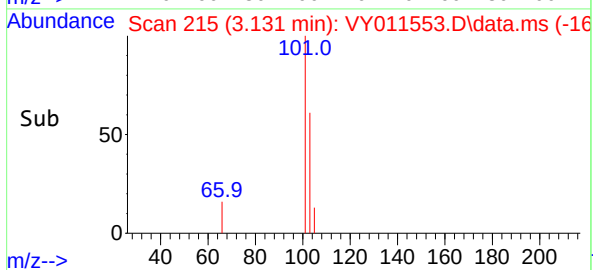
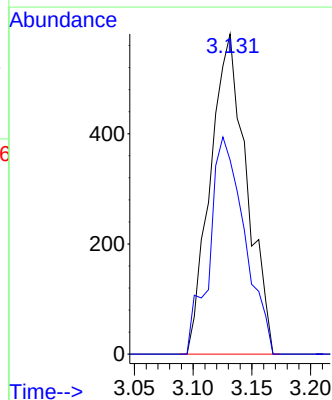
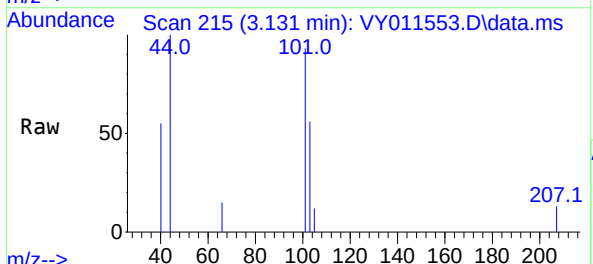
Instrument :  
MSVOA\_Y  
ClientSampleId :

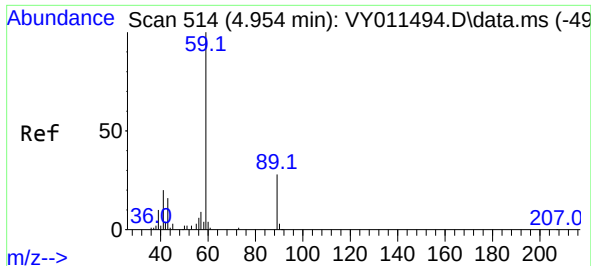
Tgt Ion: 94 Resp: 206  
Ion Ratio Lower Upper  
94 100  
96 62.7 73.5 110.3#



#7  
Trichlorofluoromethane  
Concen: 1.639 ug/l  
RT: 3.131 min Scan# 215  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

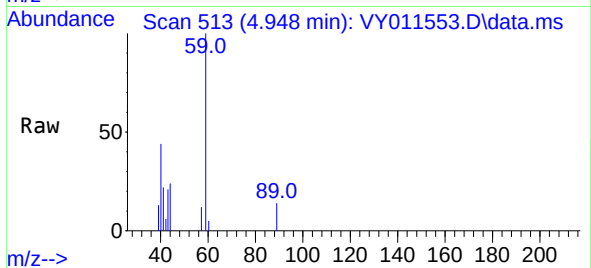
Tgt Ion:101 Resp: 1246  
Ion Ratio Lower Upper  
101 100  
103 60.6 48.0 72.0



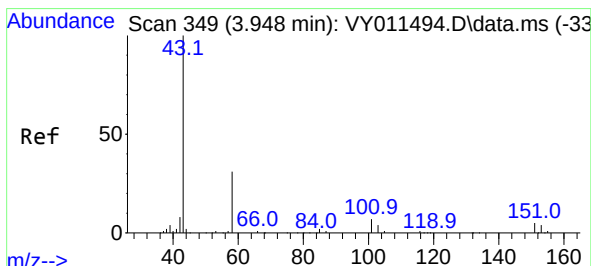
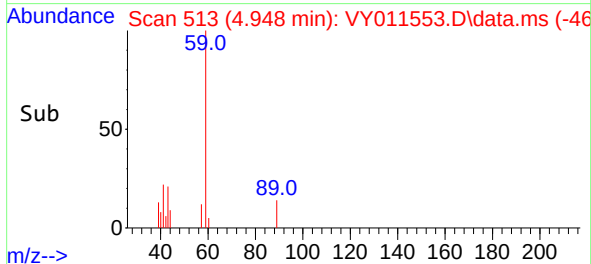
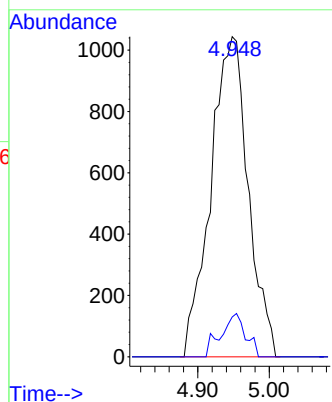


#11  
Tert butyl alcohol  
Concen: 51.615 ug/l  
RT: 4.948 min Scan# 514  
Delta R.T. -0.006 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Instrument :  
MSVOA\_Y  
ClientSampleId :

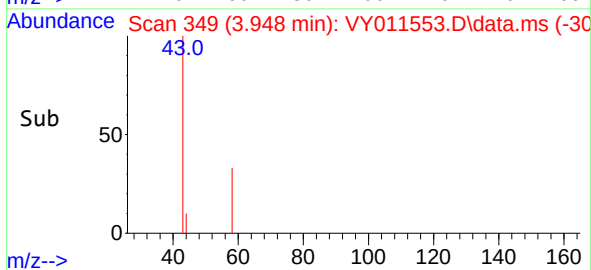
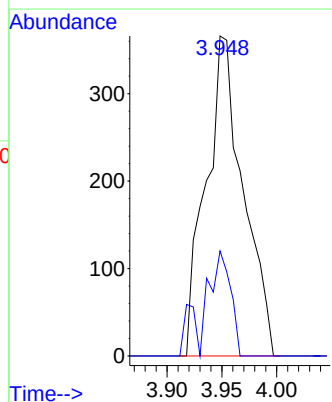
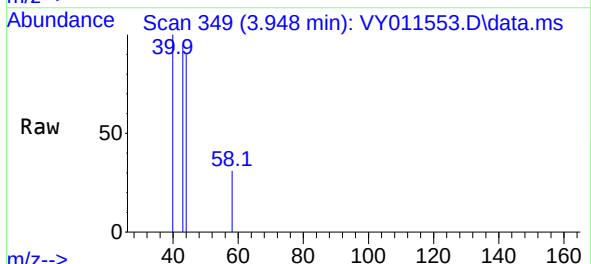


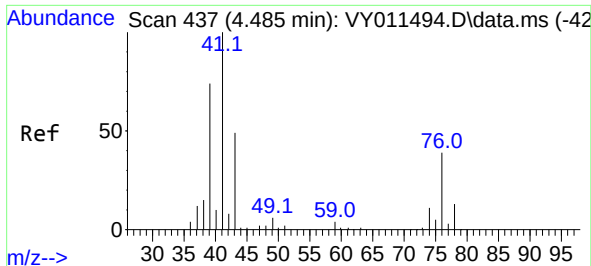
Tgt Ion: 59 Resp: 3800  
Ion Ratio Lower Upper  
59 100  
57 8.9 6.4 9.6



#16  
Acetone  
Concen: 5.716 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion: 43 Resp: 864  
Ion Ratio Lower Upper  
43 100  
58 32.8 22.0 33.0





#18

Methyl Acetate

Concen: Below Cal

RT: 4.723 min Scan# 41

Delta R.T. 0.238 min

Lab File: VY011553.D

Acq: 22 Nov 2022 17:12

Instrument :

MSVOA\_Y

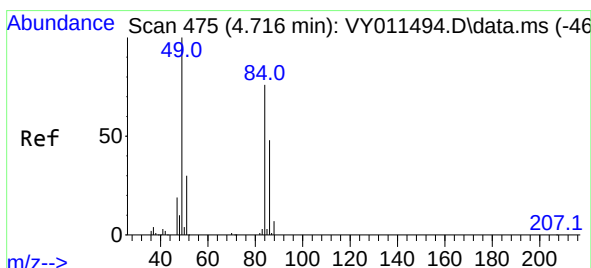
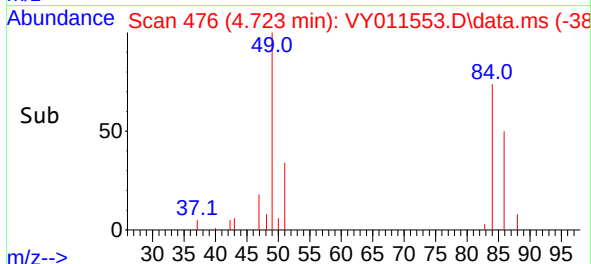
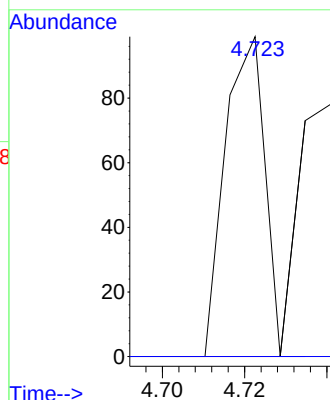
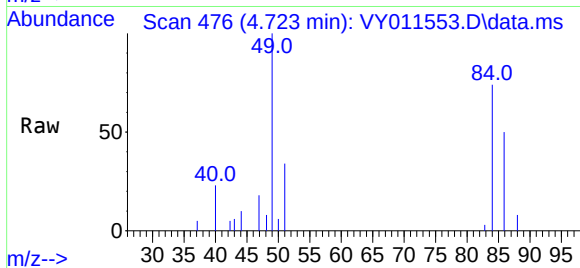
ClientSampleId :

Tgt Ion: 43 Resp: 66

Ion Ratio Lower Upper

43 100

74 0.0 16.6 24.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 475

Delta R.T. 0.000 min

Lab File: VY011553.D

Acq: 22 Nov 2022 17:12

Tgt Ion: 84 Resp: 4402

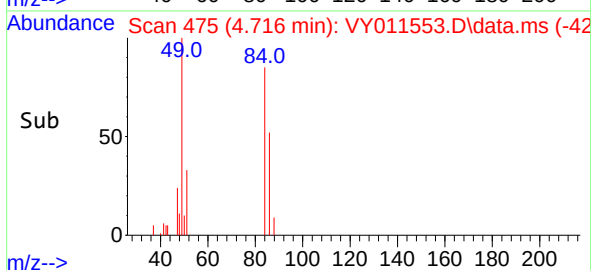
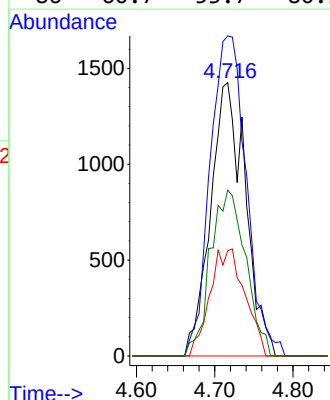
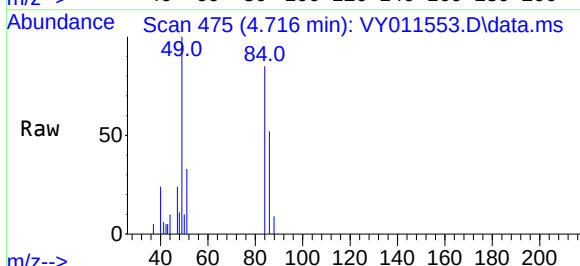
Ion Ratio Lower Upper

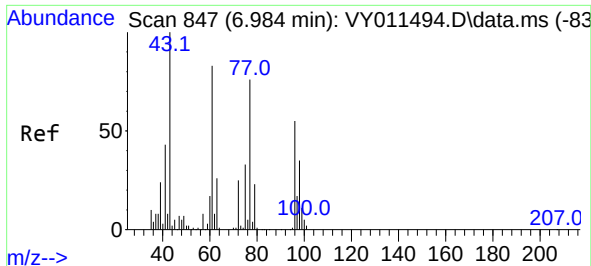
84 100

49 117.0 114.4 171.6

51 38.5 35.3 52.9

86 60.7 53.7 80.5





#25

2-Butanone

Concen: 2.522 ug/l

RT: 6.960 min Scan# 843

Delta R.T. -0.024 min

Lab File: VY011553.D

Acq: 22 Nov 2022 17:12

Instrument :

MSVOA\_Y

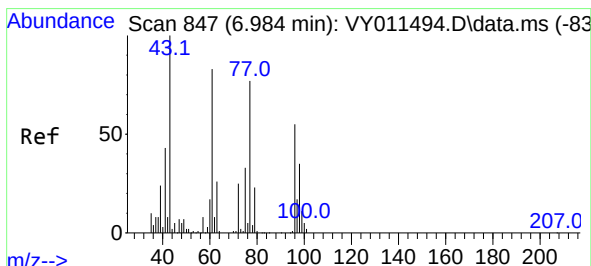
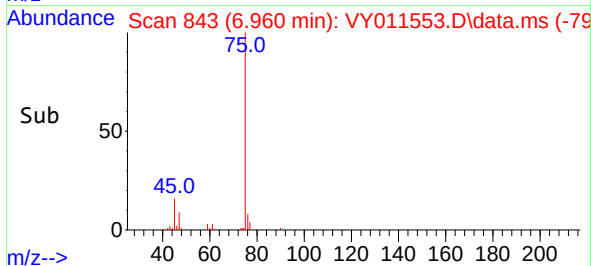
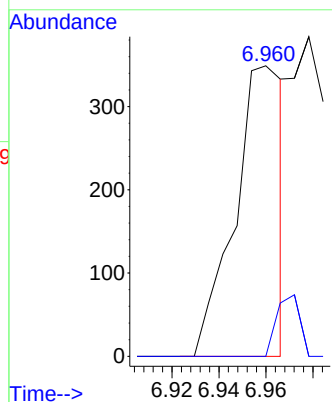
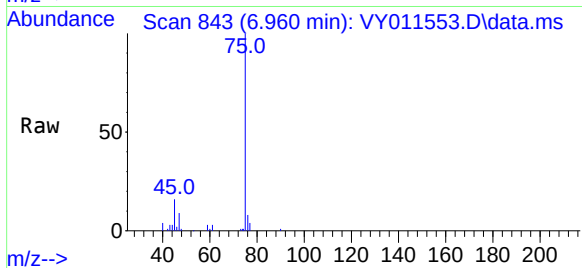
ClientSampleId :

Tgt Ion: 43 Resp: 501

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#26

2,2-Dichloropropane

Concen: 1.766 ug/l

RT: 6.966 min Scan# 844

Delta R.T. -0.018 min

Lab File: VY011553.D

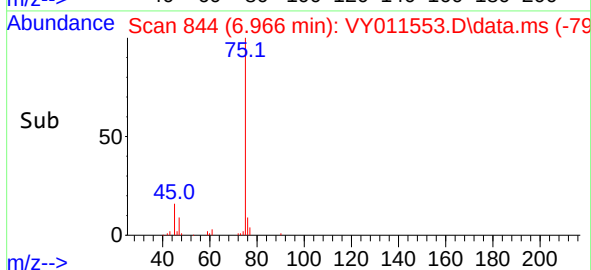
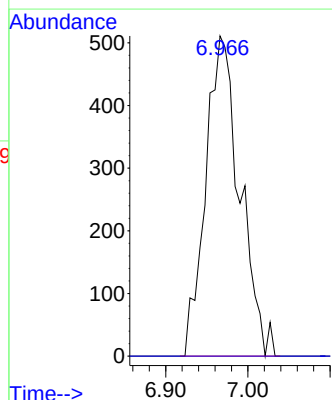
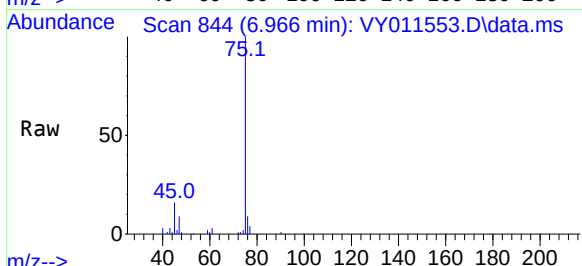
Acq: 22 Nov 2022 17:12

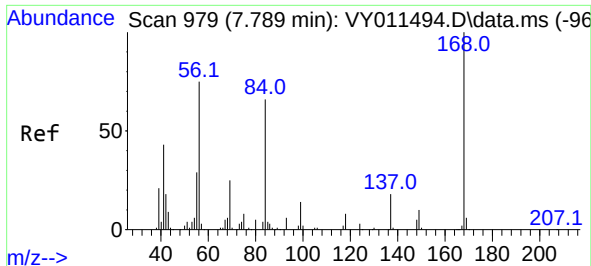
Tgt Ion: 77 Resp: 1477

Ion Ratio Lower Upper

77 100

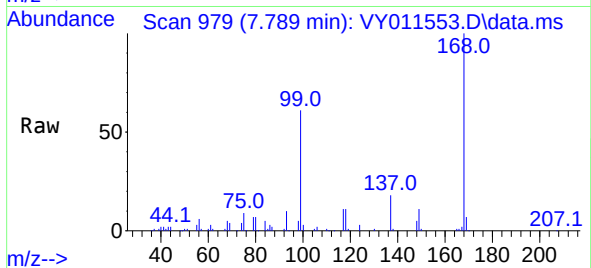
97 0.0 10.4 31.4#



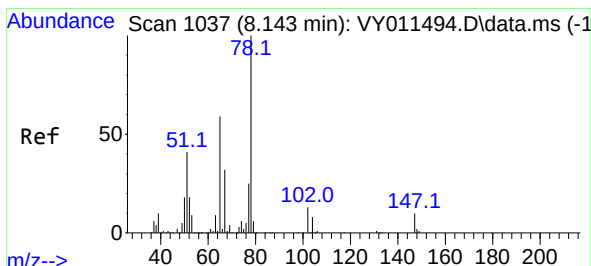
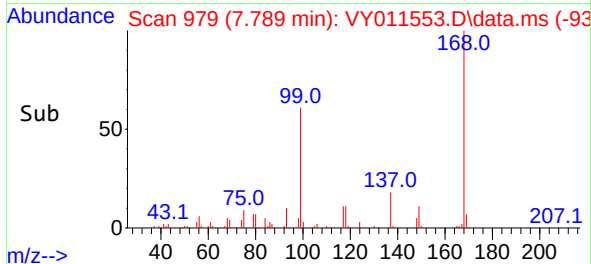
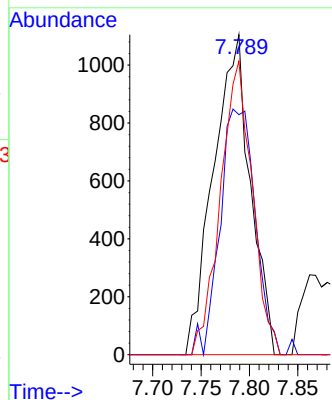


#31  
Cyclohexane  
Concen: 3.800 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

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ClientSampleId :

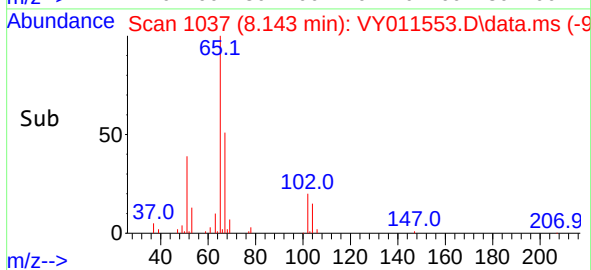
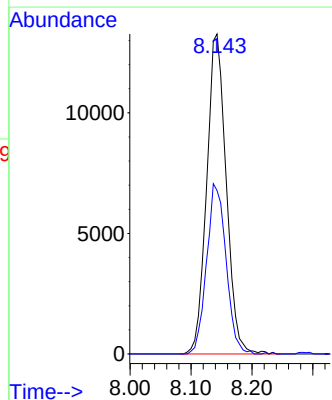
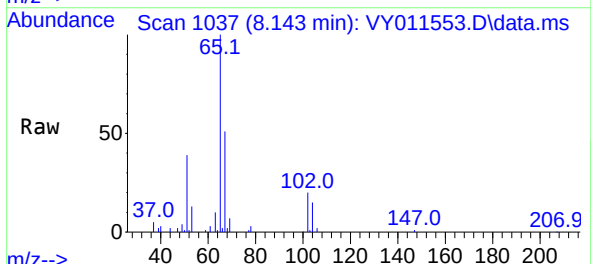


Tgt Ion: 56 Resp: 2931  
Ion Ratio Lower Upper  
56 100  
69 75.0 26.7 40.1#  
84 91.8 67.2 100.8

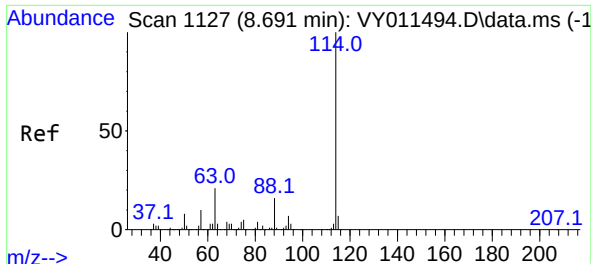


#33  
1,2-Dichloroethane-d4  
Concen: 63.478 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. -0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion: 65 Resp: 29540  
Ion Ratio Lower Upper  
65 100  
67 52.9 0.0 99.4







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY011553.D

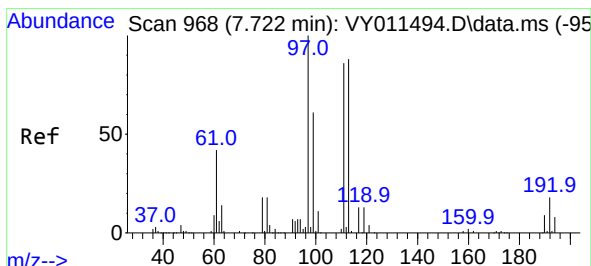
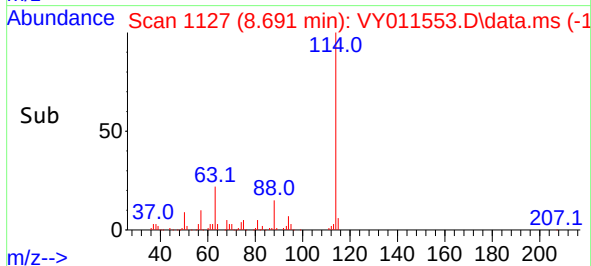
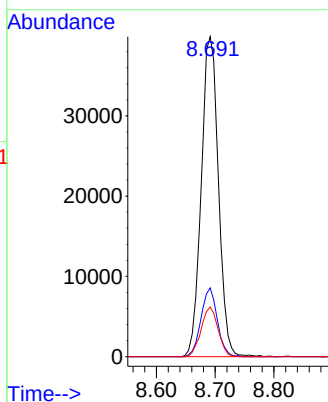
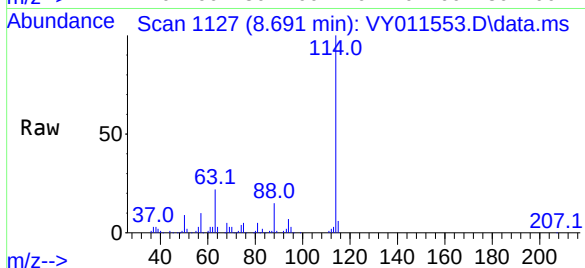
Acq: 22 Nov 2022 17:12

Instrument :

MSVOA\_Y

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:114 | Resp: | 80991       |
| Ion         | Ratio | Lower Upper |
| 114         | 100   |             |
| 63          | 21.5  | 0.0 43.2    |
| 88          | 15.5  | 0.0 31.8    |



#35

Dibromofluoromethane

Concen: 55.340 ug/l

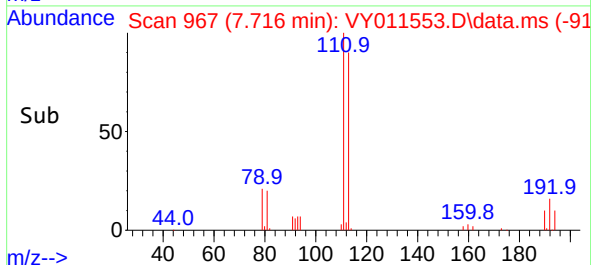
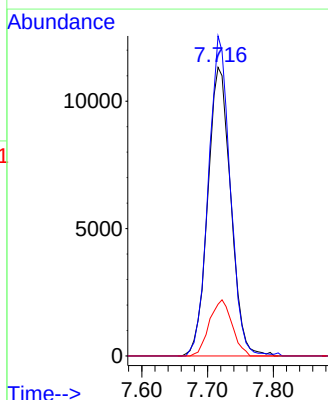
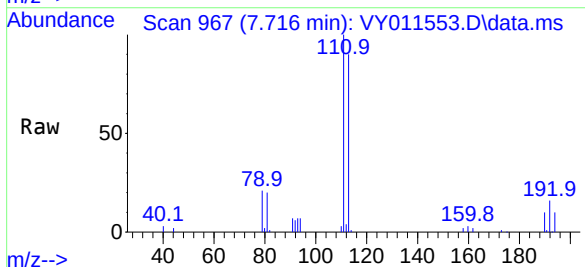
RT: 7.716 min Scan# 967

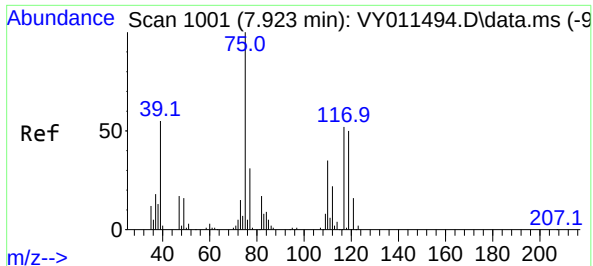
Delta R.T. -0.006 min

Lab File: VY011553.D

Acq: 22 Nov 2022 17:12

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 27591       |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 104.9 | 82.6 124.0  |
| 192         | 19.2  | 17.6 26.4   |





#36

1,1-Dichloropropene

Concen: 4.993 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.134 min

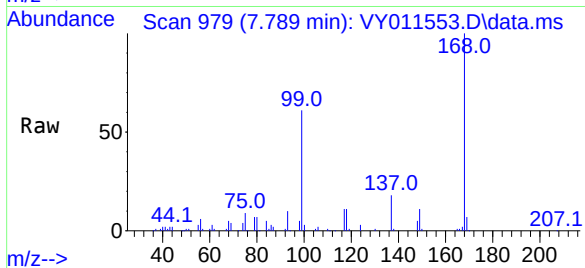
Lab File: VY011553.D

Acq: 22 Nov 2022 17:12

Instrument :

MSVOA\_Y

ClientSampleId :



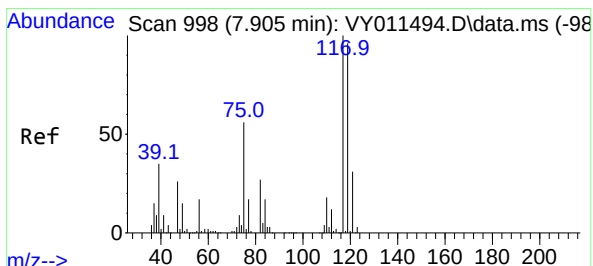
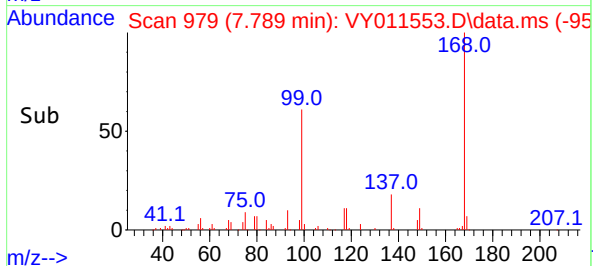
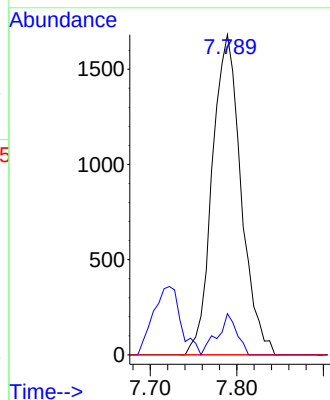
Tgt Ion: 75 Resp: 3891

Ion Ratio Lower Upper

75 100

110 8.5 17.1 51.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.248 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY011553.D

Acq: 22 Nov 2022 17:12

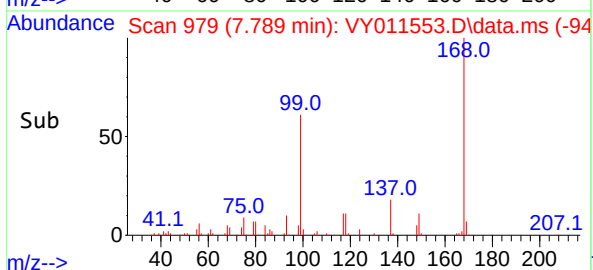
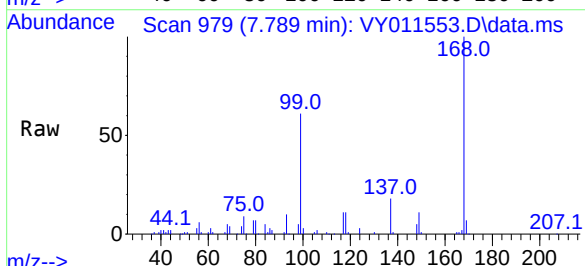
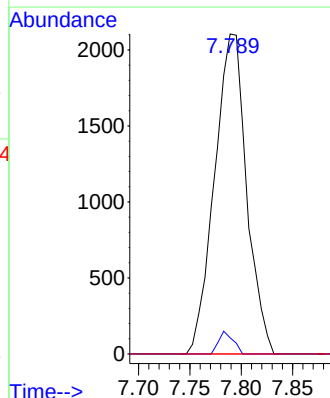
Tgt Ion: 117 Resp: 4576

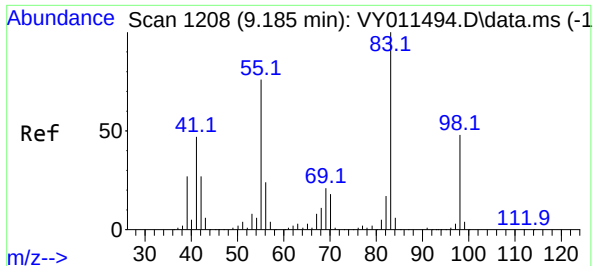
Ion Ratio Lower Upper

117 100

119 5.0 77.9 116.9#

121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: 3.739 ug/l

RT: 9.179 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY011553.D

Acq: 22 Nov 2022 17:12

Instrument :

MSVOA\_Y

ClientSampleId :

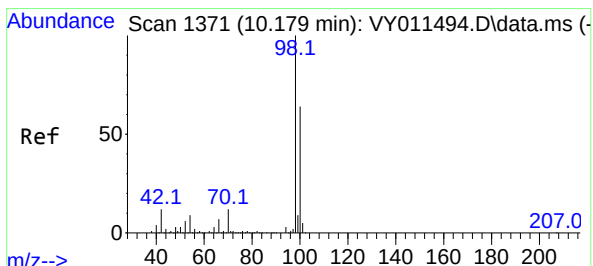
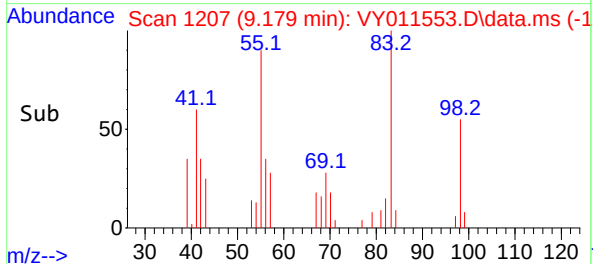
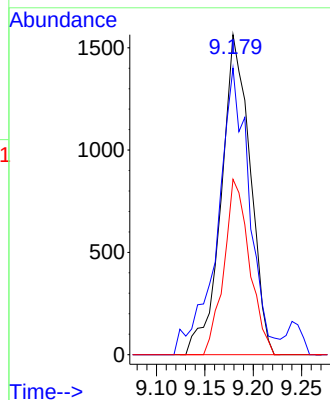
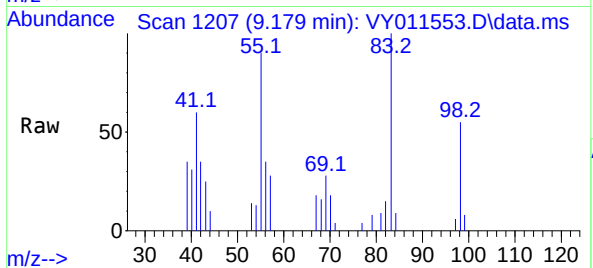
Tgt Ion: 83 Resp: 3252

Ion Ratio Lower Upper

83 100

55 84.8 66.5 99.7

98 54.8 37.9 56.9



#50

Toluene-d8

Concen: 54.659 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. -0.000 min

Lab File: VY011553.D

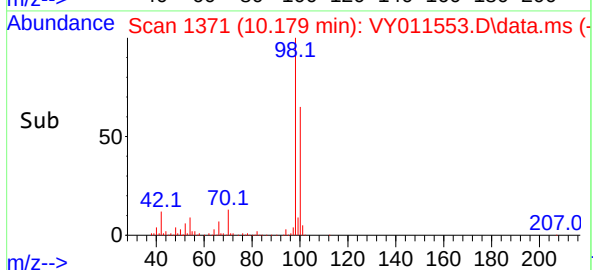
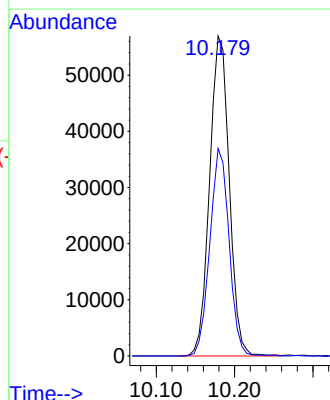
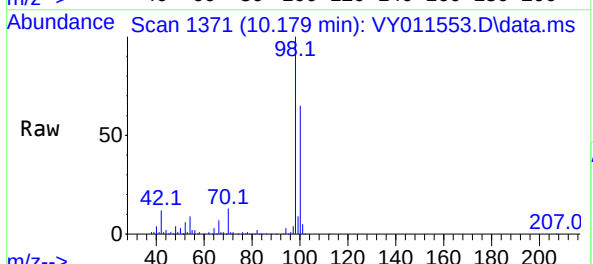
Acq: 22 Nov 2022 17:12

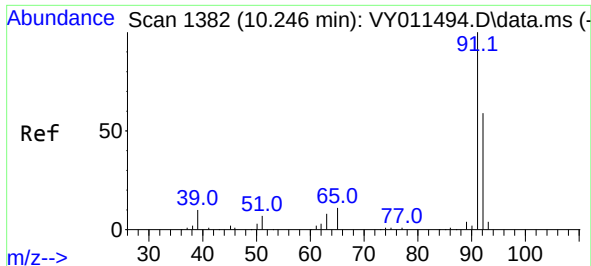
Tgt Ion: 98 Resp: 99029

Ion Ratio Lower Upper

98 100

100 63.6 50.2 75.2

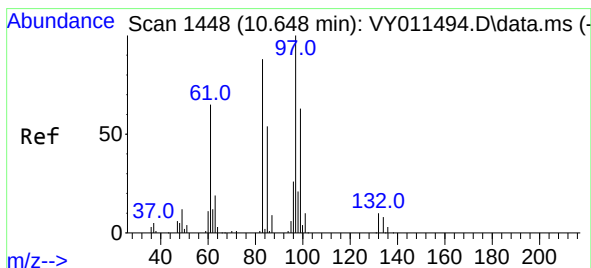
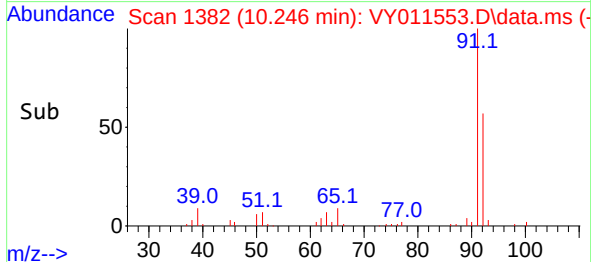
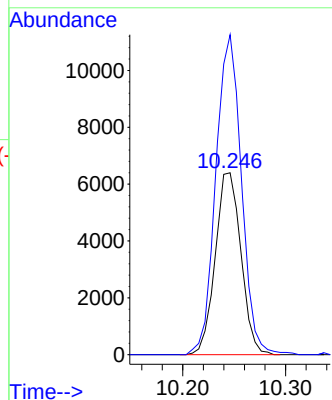
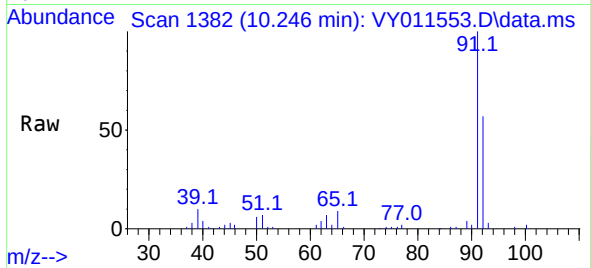




#52  
Toluene  
Concen: 7.718 ug/l  
RT: 10.246 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

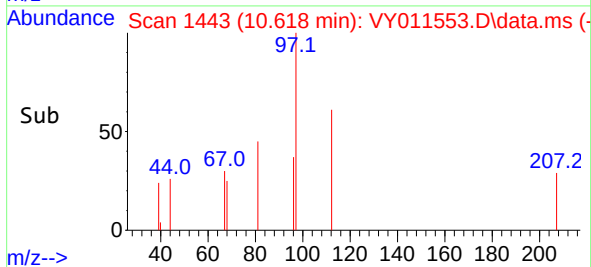
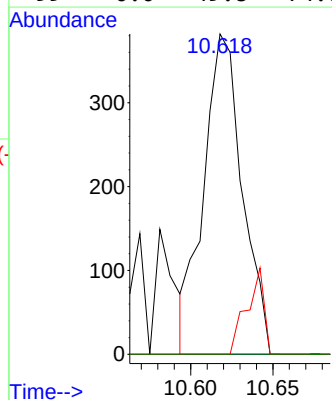
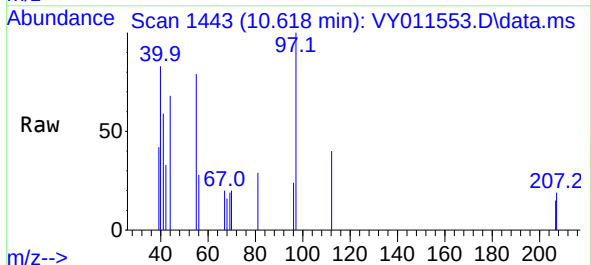
Instrument :  
MSVOA\_Y  
ClientSampleId :

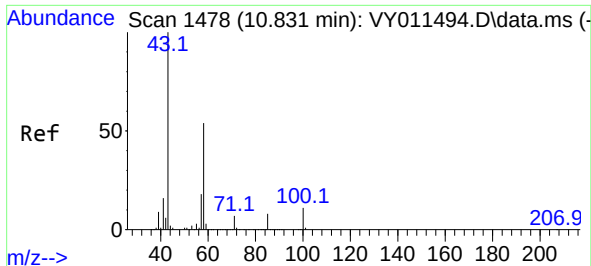
Tgt Ion: 92 Resp: 11080  
Ion Ratio Lower Upper  
92 100  
91 175.9 142.6 213.8



#55  
1,1,2-Trichloroethane  
Concen: 1.346 ug/l  
RT: 10.618 min Scan# 1443  
Delta R.T. -0.030 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion: 97 Resp: 625  
Ion Ratio Lower Upper  
97 100  
83 0.0 69.8 104.8#  
85 0.0 44.3 66.5#  
99 0.0 49.8 74.6#

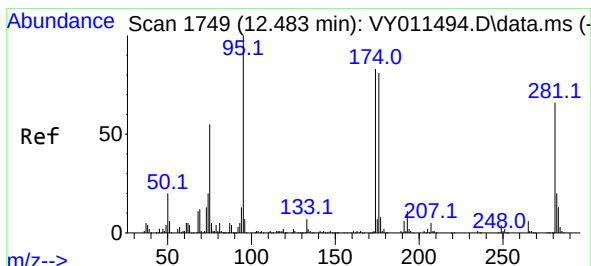
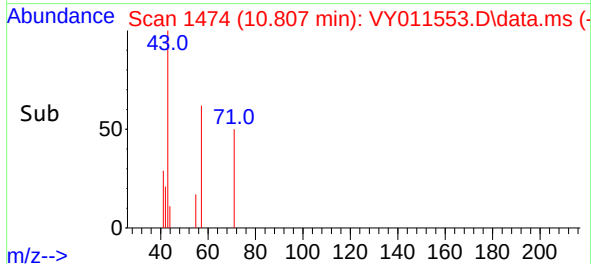
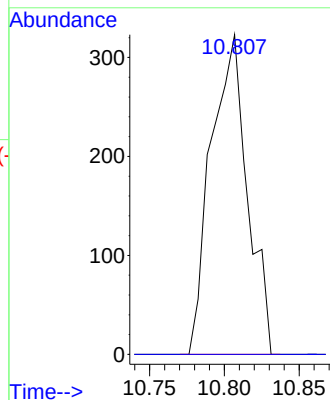
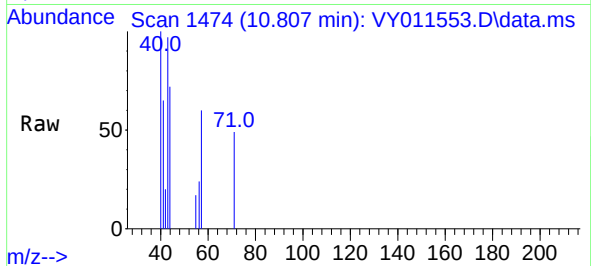




#59  
2-Hexanone  
Concen: 1.719 ug/l  
RT: 10.807 min Scan# 1478  
Delta R.T. -0.024 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

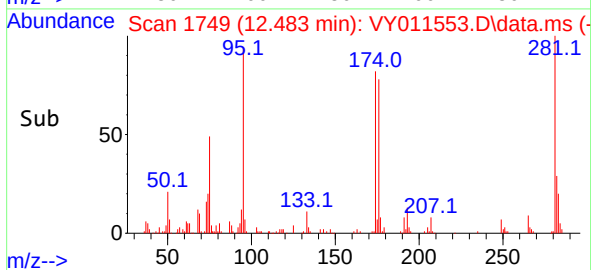
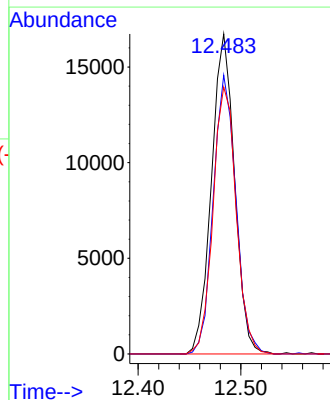
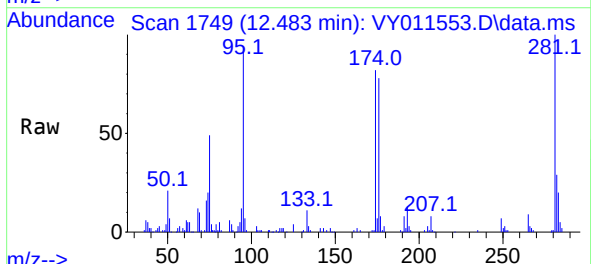
Instrument :  
MSVOA\_Y  
ClientSampleId :

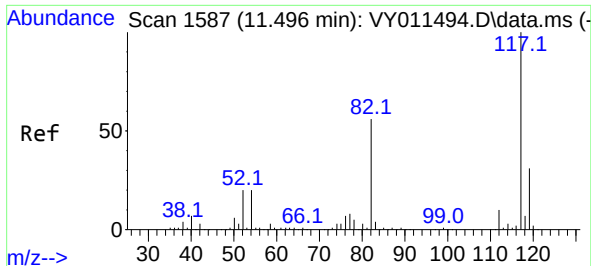
Tgt Ion: 43 Resp: 546  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.4 73.4#



#62  
4-Bromofluorobenzene  
Concen: 38.911 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion: 95 Resp: 26065  
Ion Ratio Lower Upper  
95 100  
174 85.5 0.0 177.0  
176 83.7 0.0 175.8

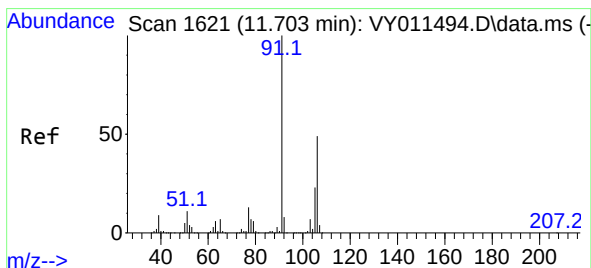
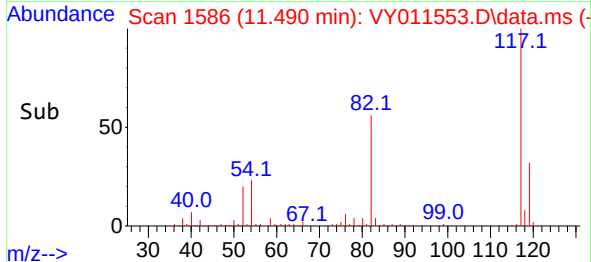
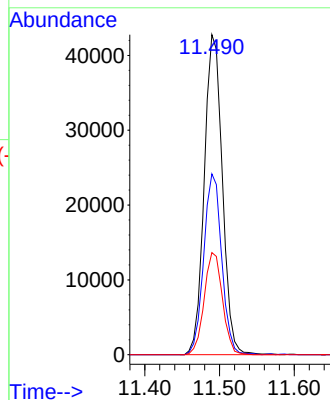
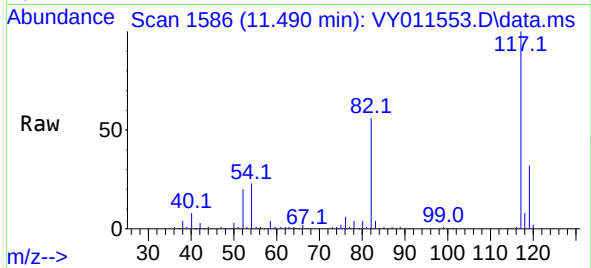




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 117  
Delta R.T. -0.006 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

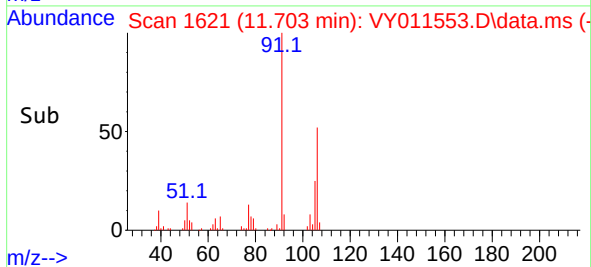
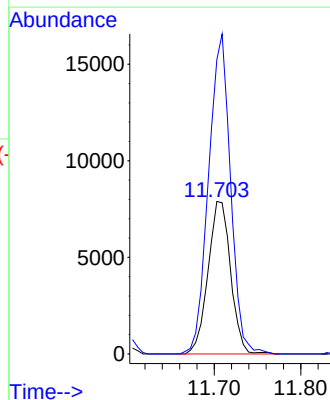
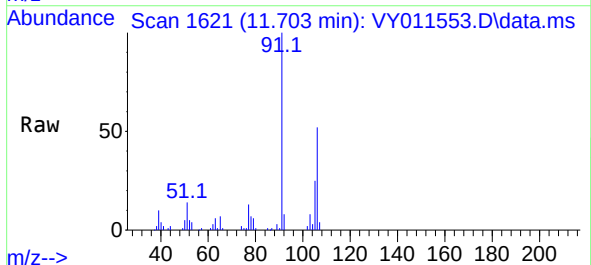
Instrument :  
MSVOA\_Y  
ClientSampleId :

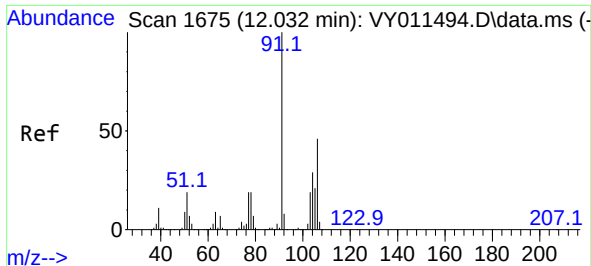
Tgt Ion:117 Resp: 71911  
Ion Ratio Lower Upper  
117 100  
82 56.5 43.0 64.4  
119 31.9 25.4 38.0



#68  
m/p-Xylenes  
Concen: 13.818 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. -0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion:106 Resp: 14302  
Ion Ratio Lower Upper  
106 100  
91 204.0 166.6 249.8

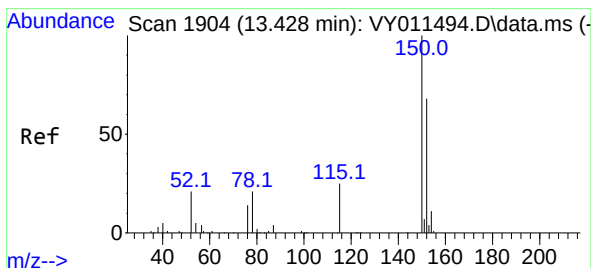
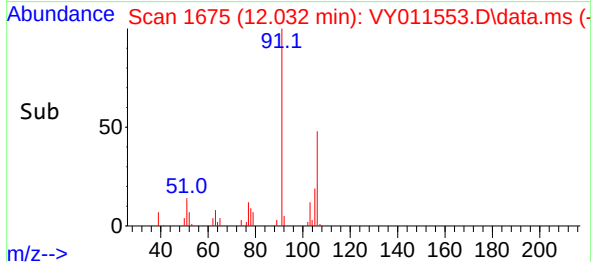
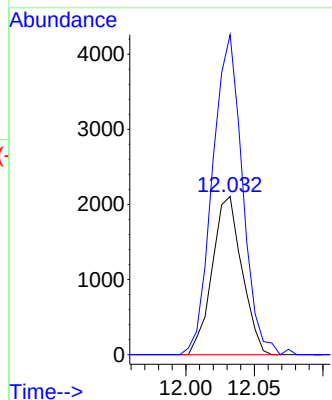
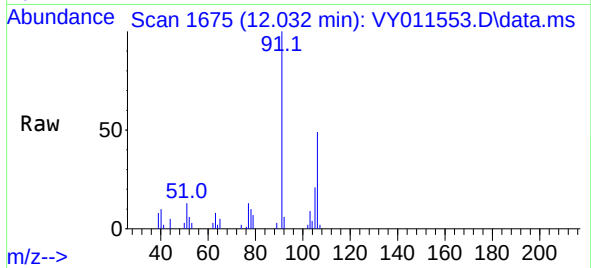




#69  
o-Xylene  
Concen: 3.296 ug/l  
RT: 12.032 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

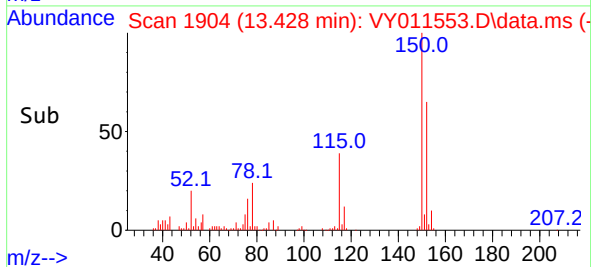
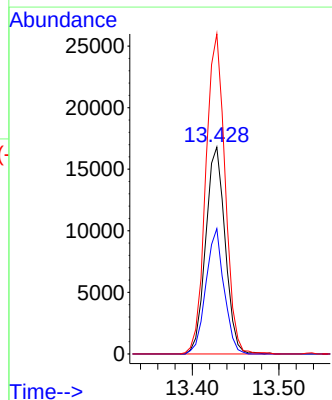
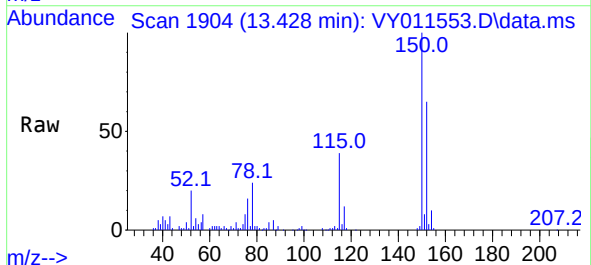
Instrument :  
MSVOA\_Y  
ClientSampleId :

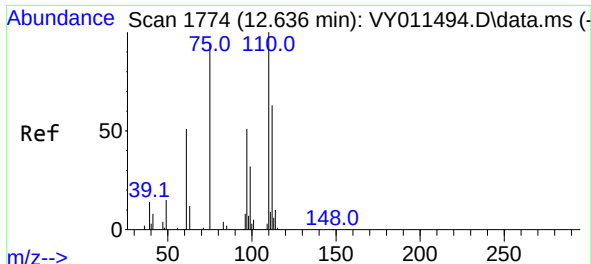
Tgt Ion:106 Resp: 3176  
Ion Ratio Lower Upper  
106 100  
91 204.5 110.3 331.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion:152 Resp: 26155  
Ion Ratio Lower Upper  
152 100  
115 56.6 28.2 84.7  
150 153.7 0.0 347.6

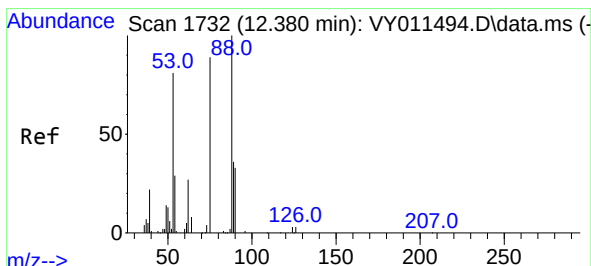
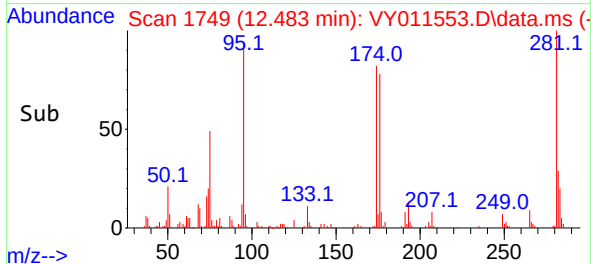
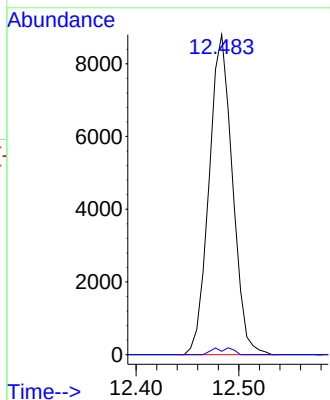
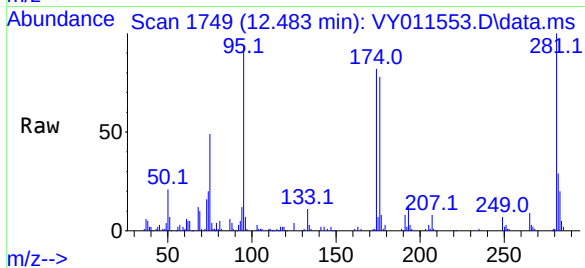




#76  
1,2,3-Trichloropropane  
Concen: 49.444 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.153 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

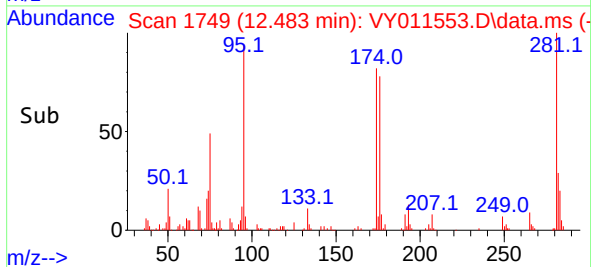
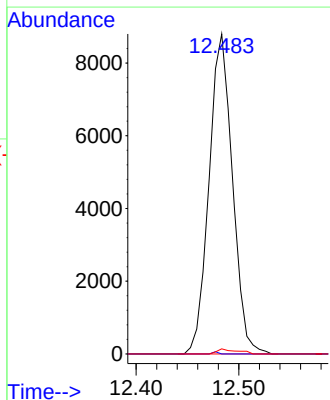
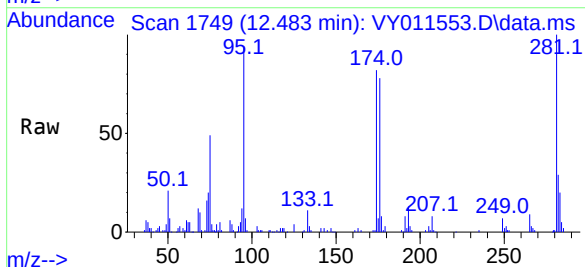
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 13927  
Ion Ratio Lower Upper  
75 100  
77 1.8 0.0 0.0#

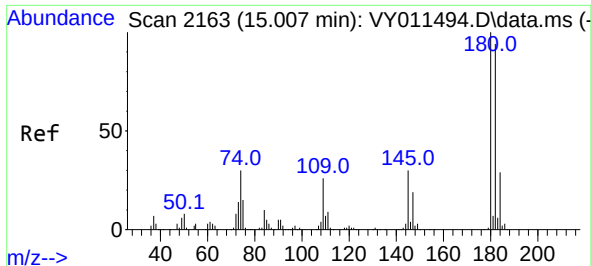


#81  
trans-1,4-Dichloro-2-butene  
Concen: 108.299 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.103 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

Tgt Ion: 75 Resp: 13927  
Ion Ratio Lower Upper  
75 100  
53 0.2 85.3 127.9#  
89 1.4 37.0 55.4#

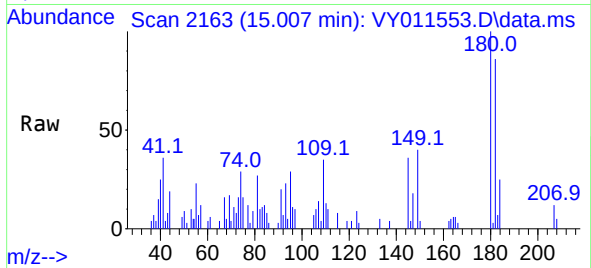




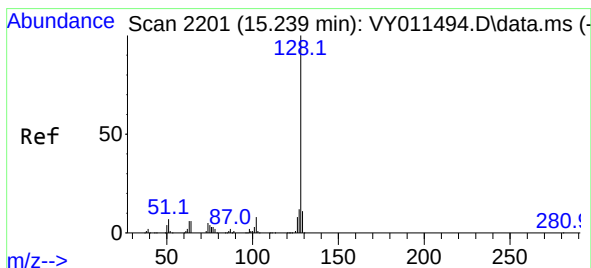
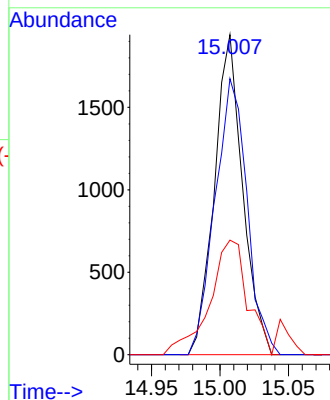
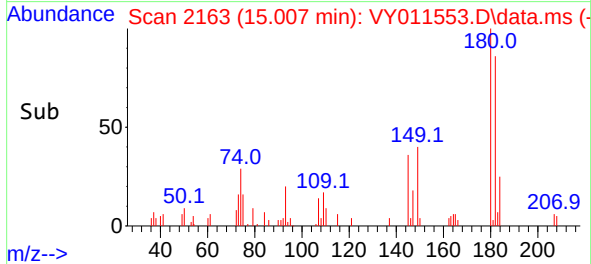


#93  
1,2,4-Trichlorobenzene  
Concen: 6.311 ug/l  
RT: 15.007 min Scan# 2163  
Delta R.T. 0.000 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12

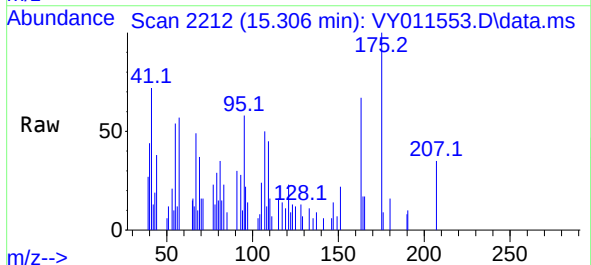
Instrument :  
MSVOA\_Y  
ClientSampleId :



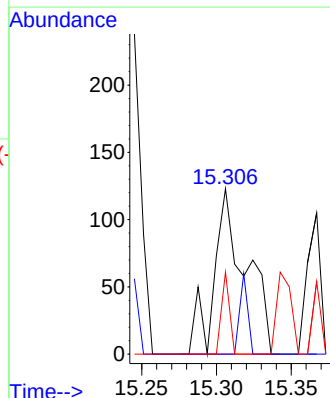
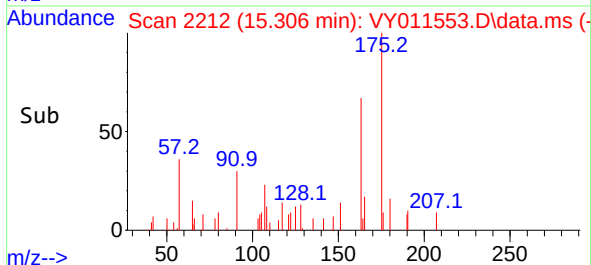
Tgt Ion:180 Resp: 2790  
Ion Ratio Lower Upper  
180 100  
182 97.3 47.3 141.9  
145 48.1 14.6 43.8#

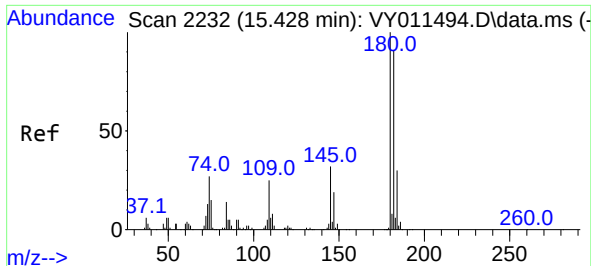


#95  
Naphthalene  
Concen: 4.202 ug/l  
RT: 15.306 min Scan# 2212  
Delta R.T. 0.067 min  
Lab File: VY011553.D  
Acq: 22 Nov 2022 17:12



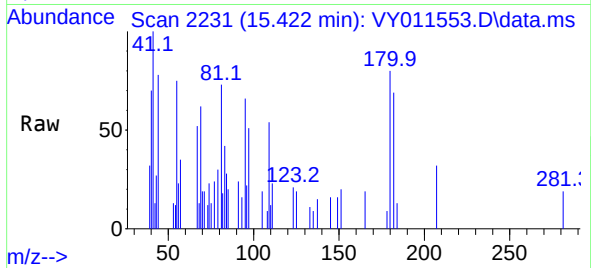
Tgt Ion:128 Resp: 183  
Ion Ratio Lower Upper  
128 100  
127 12.0 11.0 16.4  
129 12.0 8.4 12.6





#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.589 ug/l  
 RT: 15.422 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: VY011553.D  
 Acq: 22 Nov 2022 17:12

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 981   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 64.0  | 47.3  | 141.9 |
| 145      | 18.2  | 15.3  | 45.9  |

