

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032122\  
 Data File : VY007959.D  
 Acq On : 21 Mar 2022 16:59  
 Operator : SY/MD  
 Sample : N1958-09RE  
 Misc : 5.01g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 C-9-8-9RE

Quant Time: Mar 22 03:40:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y031722S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 13:55:34 2022  
 Response via : Initial Calibration

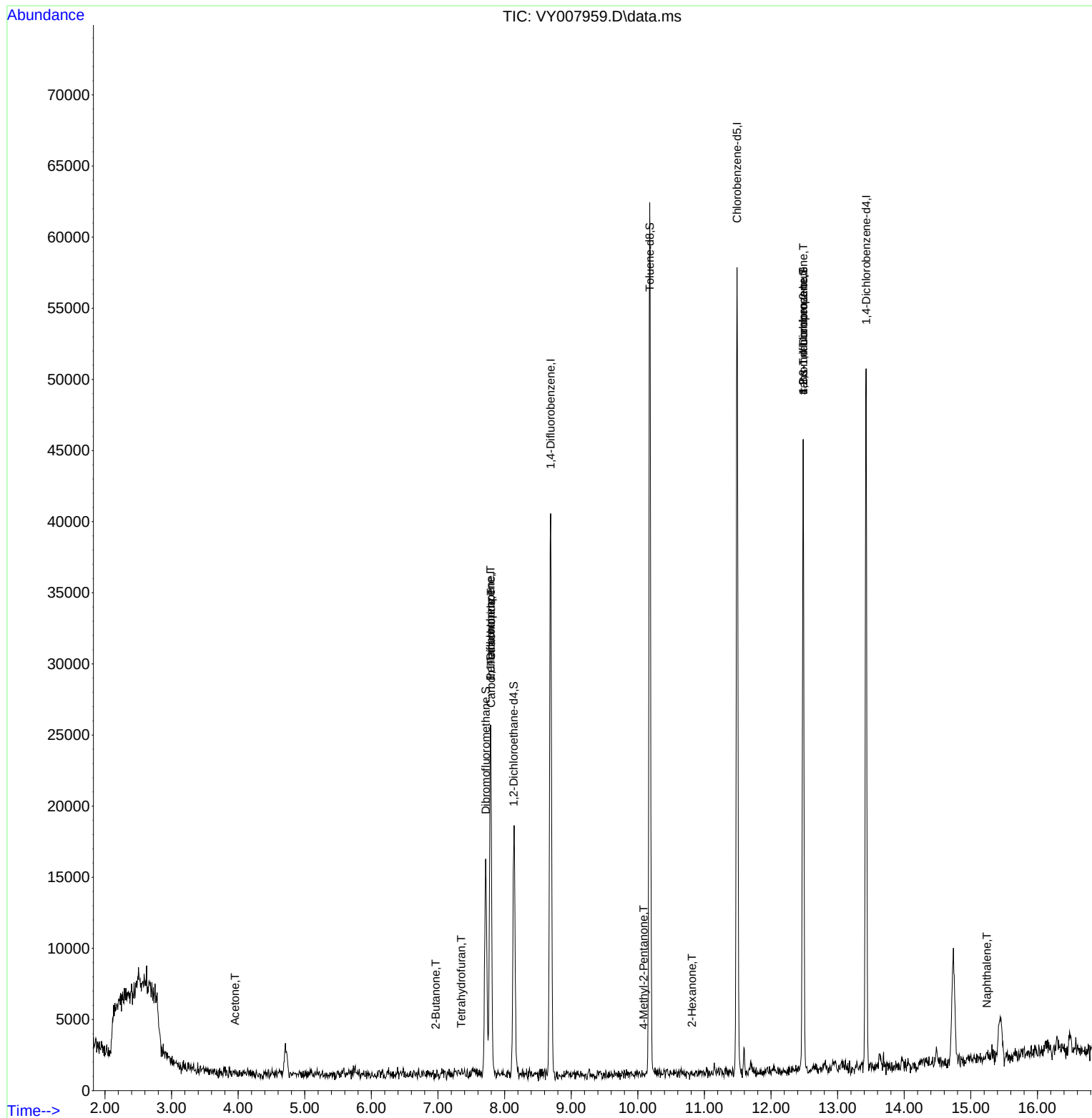
| Compound                      | R.T.           | QIon | Response            | Conc      | Units | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|-------|----------|
| -----                         |                |      |                     |           |       |          |
| Internal Standards            |                |      |                     |           |       |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 17547               | 50.000    | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 34243               | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 30101               | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 11938               | 50.000    | ug/l  | 0.00     |
|                               |                |      |                     |           |       |          |
| System Monitoring Compounds   |                |      |                     |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.136          | 65   | 13652               | 68.237    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 136.480% |           |       |          |
| 35) Dibromofluoromethane      | 7.716          | 113  | 10577               | 43.982    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 87.960%  |           |       |          |
| 50) Toluene-d8                | 10.179         | 98   | 40731               | 56.908    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 113.820% |           |       |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 13791               | 39.957    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 79.920%  |           |       |          |
|                               |                |      |                     |           |       |          |
| Target Compounds              |                |      |                     |           |       | Qvalue   |
| 3) Chloromethane              | 2.113          | 50   | 327                 | Below Cal |       | 100      |
| 4) Vinyl Chloride             | 2.253          | 62   | 187                 | Below Cal | #     | 43       |
| 5) Bromomethane               | 2.662          | 94   | 90                  | Below Cal |       | 94       |
| 16) Acetone                   | 3.954          | 43   | 640                 | 12.058    | ug/l  | 90       |
| 18) Methyl Acetate            | 4.454          | 43   | 78                  | Below Cal | #     | 56       |
| 20) Methylene Chloride        | 4.704          | 84   | 874                 | Below Cal | #     | 79       |
| 25) 2-Butanone                | 6.966          | 43   | 107                 | 1.259     | ug/l  | # 54     |
| 29) Tetrahydrofuran           | 7.350          | 42   | 213                 | 3.910     | ug/l  | # 38     |
| 31) Cyclohexane               | 7.777          | 56   | 200                 | Below Cal | #     | 71       |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 1635                | 4.584     | ug/l  | # 47     |
| 38) Carbon Tetrachloride      | 7.795          | 117  | 1839                | 4.825     | ug/l  | # 11     |
| 51) 4-Methyl-2-Pentanone      | 10.087         | 43   | 255                 | 1.154     | ug/l  | # 40     |
| 59) 2-Hexanone                | 10.813         | 43   | 220                 | 1.392     | ug/l  | # 28     |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 7513                | 44.153    | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 7513                | 92.740    | ug/l  | # 7      |
| 95) Naphthalene               | 15.239         | 128  | 683                 | 1.148     | ug/l  | # 77     |

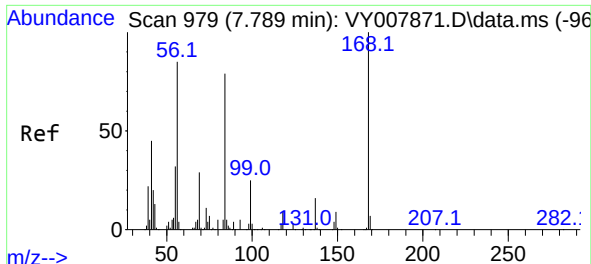
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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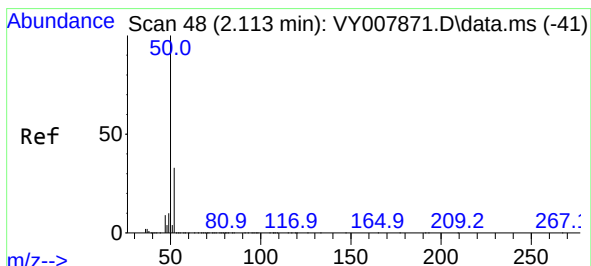
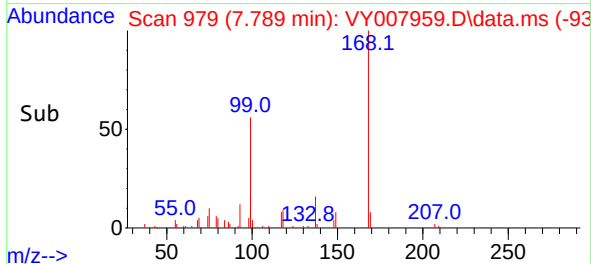
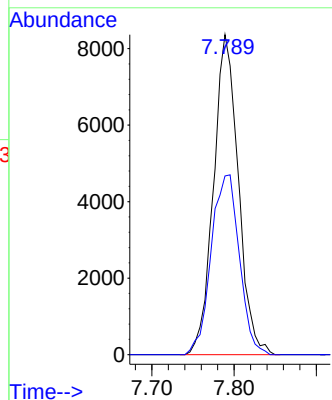
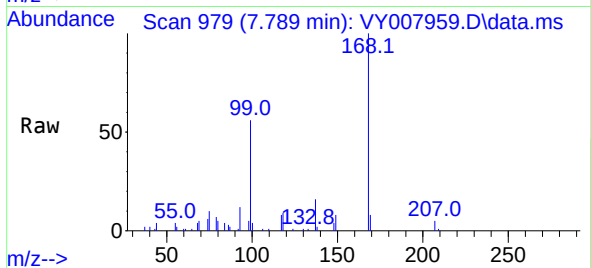




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

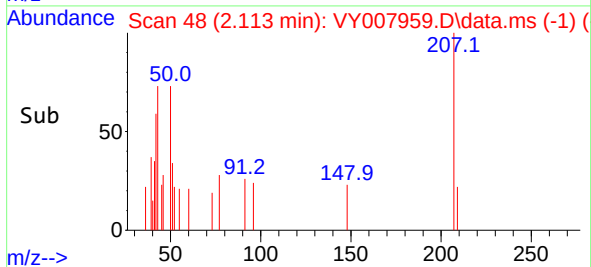
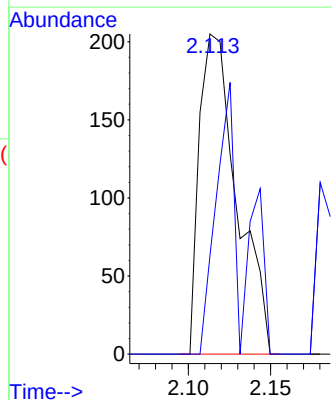
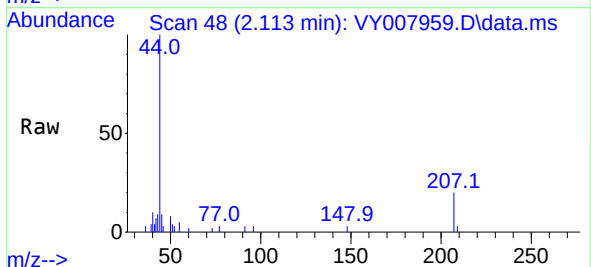
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C-9-8-9RE

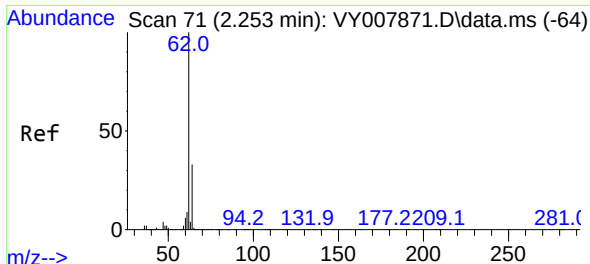
Tgt Ion:168 Resp: 17547  
Ion Ratio Lower Upper  
168 100  
99 55.9 46.9 70.3



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 48  
Delta R.T. -0.000 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

Tgt Ion: 50 Resp: 327  
Ion Ratio Lower Upper  
50 100  
52 30.7 24.6 37.0

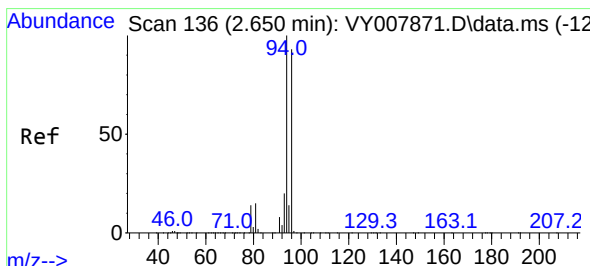
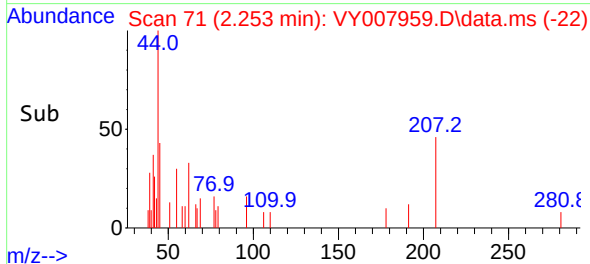
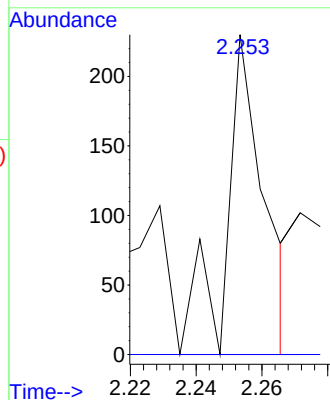
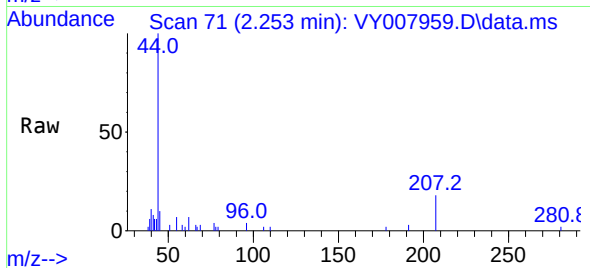




#4  
 Vinyl Chloride  
 Concen: Below Cal  
 RT: 2.253 min Scan# 71  
 Delta R.T. -0.000 min  
 Lab File: VY007959.D  
 Acq: 21 Mar 2022 16:59

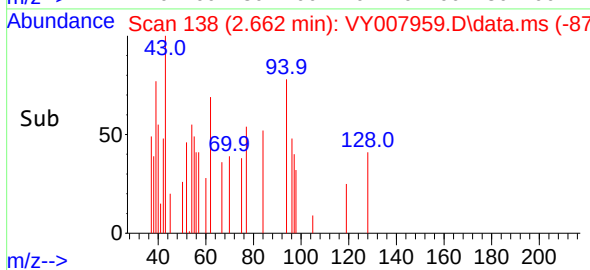
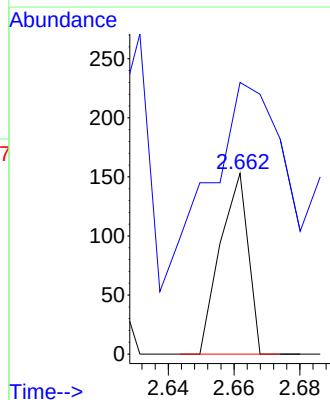
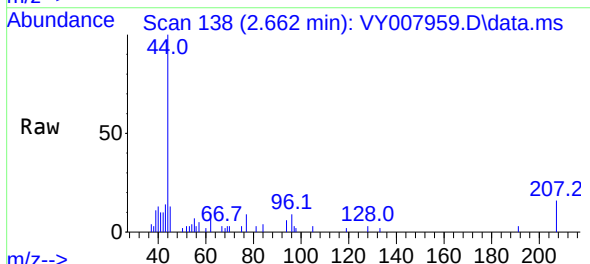
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 C-9-8-9RE

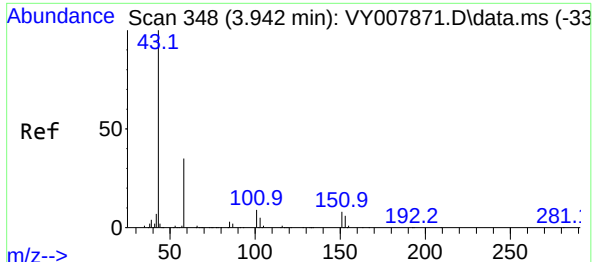
Tgt Ion: 62 Resp: 187  
 Ion Ratio Lower Upper  
 62 100  
 64 0.0 25.0 37.6#



#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 2.662 min Scan# 138  
 Delta R.T. 0.012 min  
 Lab File: VY007959.D  
 Acq: 21 Mar 2022 16:59

Tgt Ion: 94 Resp: 90  
 Ion Ratio Lower Upper  
 94 100  
 96 86.3 73.5 110.3





#16

Acetone

Concen: 12.058 ug/l

RT: 3.954 min Scan# 31

Delta R.T. 0.012 min

Lab File: VY007959.D

Acq: 21 Mar 2022 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

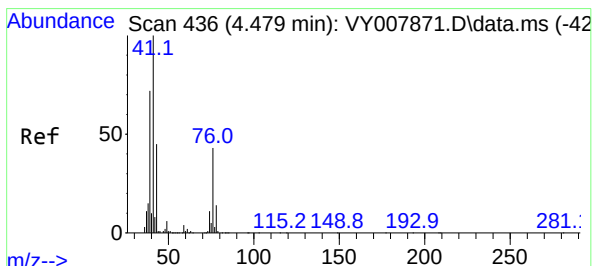
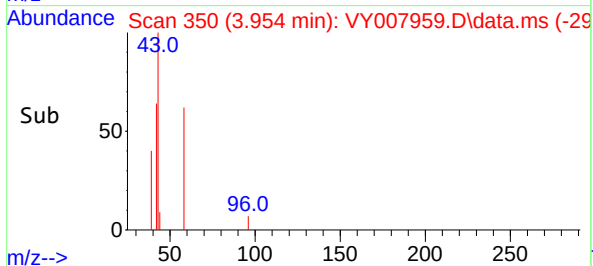
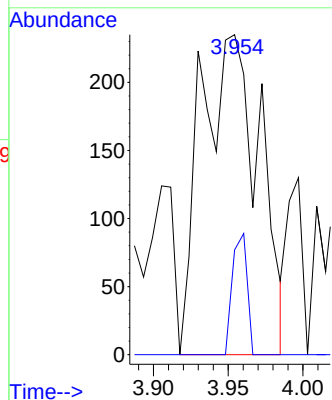
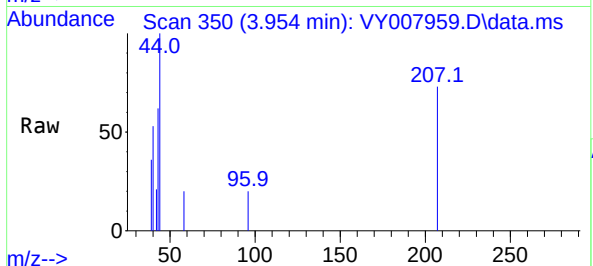
C-9-8-9RE

Tgt Ion: 43 Resp: 640

Ion Ratio Lower Upper

43 100

58 32.8 22.0 33.0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.454 min Scan# 432

Delta R.T. -0.018 min

Lab File: VY007959.D

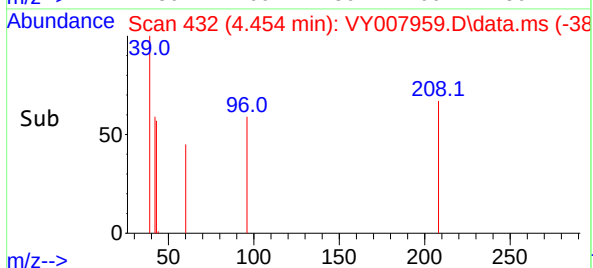
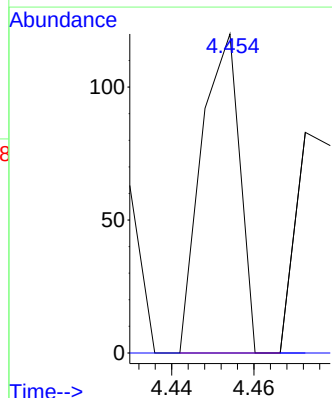
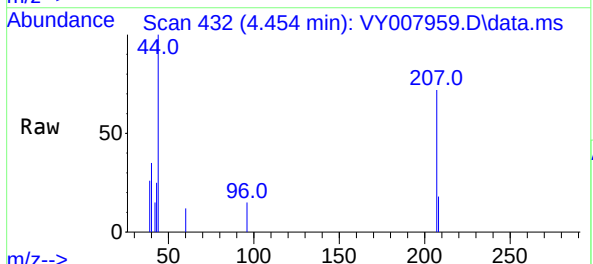
Acq: 21 Mar 2022 16:59

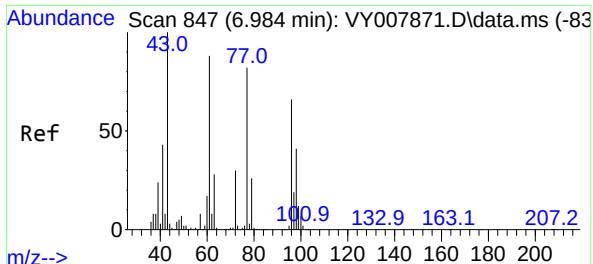
Tgt Ion: 43 Resp: 78

Ion Ratio Lower Upper

43 100

74 0.0 16.6 24.8#





#25

2-Butanone

Concen: 1.259 ug/l

RT: 6.966 min Scan# 84

Delta R.T. -0.018 min

Lab File: VY007959.D

Acq: 21 Mar 2022 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

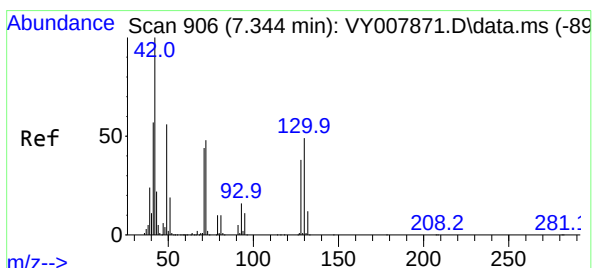
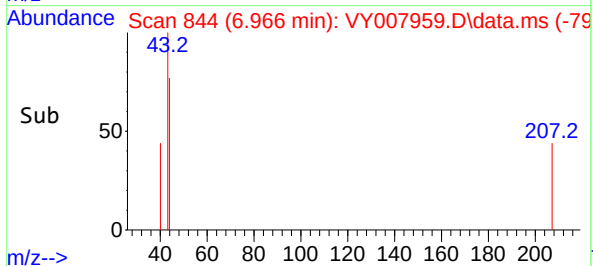
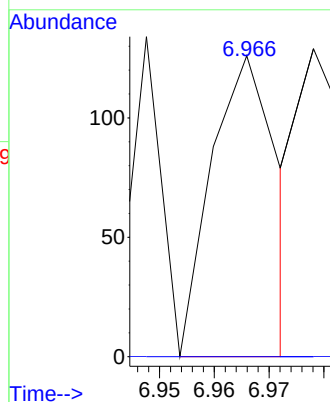
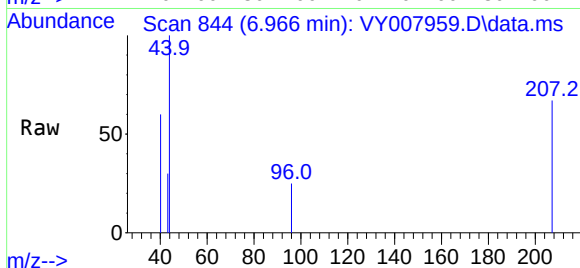
C-9-8-9RE

Tgt Ion: 43 Resp: 107

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#29

Tetrahydrofuran

Concen: 3.910 ug/l

RT: 7.350 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY007959.D

Acq: 21 Mar 2022 16:59

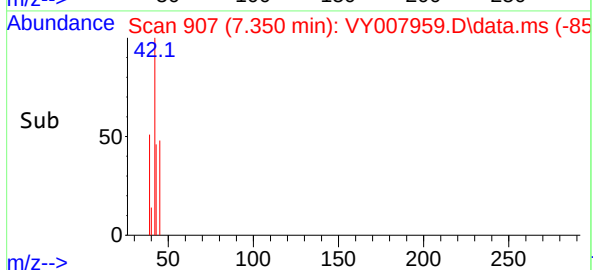
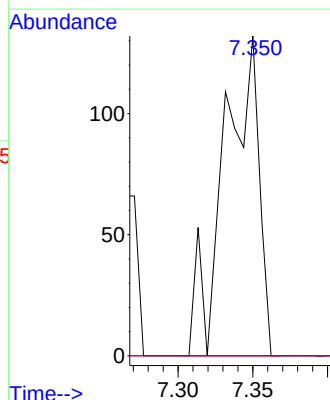
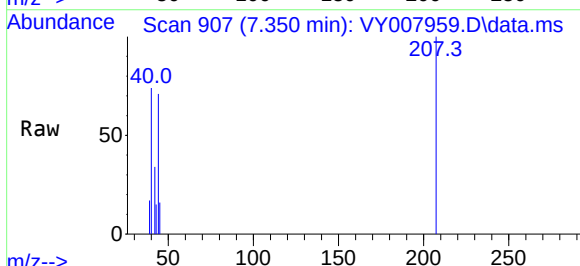
Tgt Ion: 42 Resp: 213

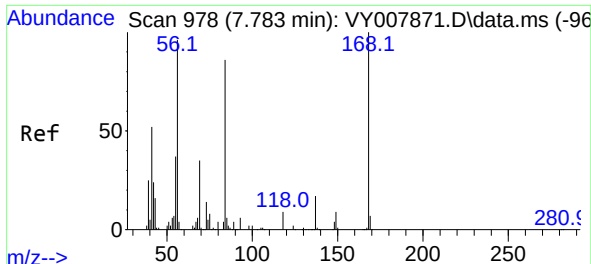
Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 29.0 43.4#

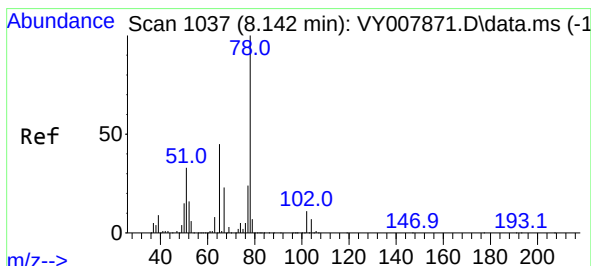
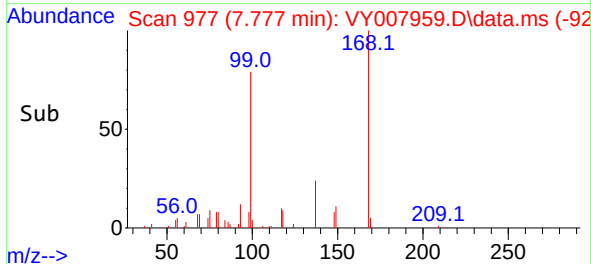
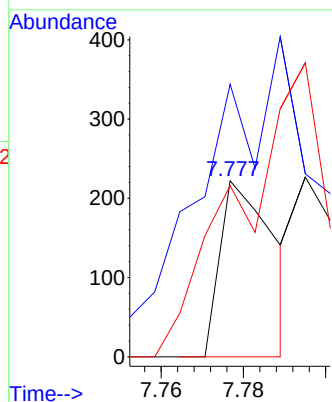
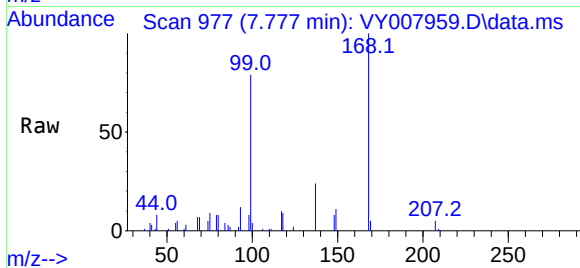




#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.777 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

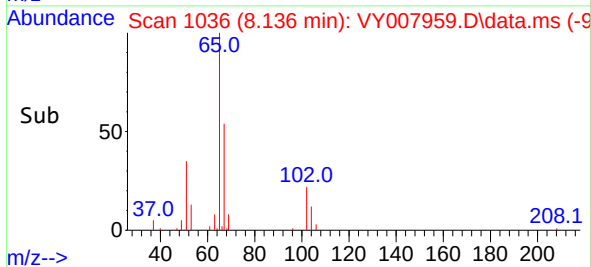
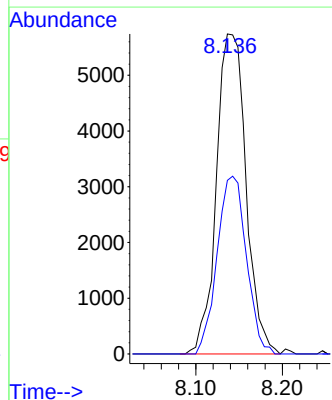
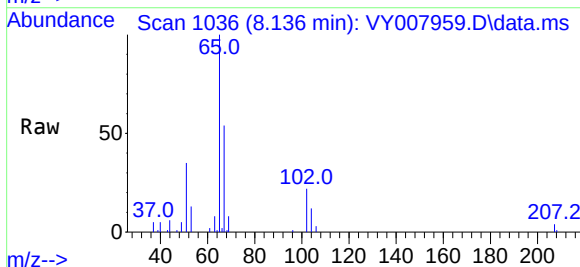
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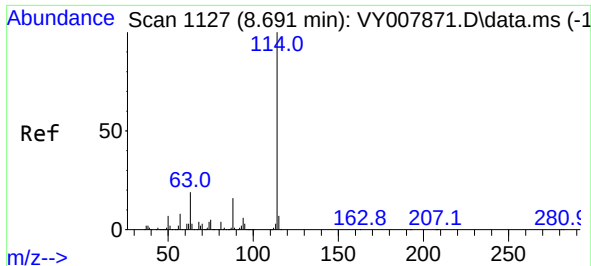
Tgt Ion: 56 Resp: 200  
Ion Ratio Lower Upper  
56 100  
69 72.5 26.7 40.1#  
84 72.5 67.2 100.8



#33  
1,2-Dichloroethane-d4  
Concen: 68.237 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.000 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

Tgt Ion: 65 Resp: 13652  
Ion Ratio Lower Upper  
65 100  
67 54.8 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: VY007959.D

Acq: 21 Mar 2022 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

C-9-8-9RE

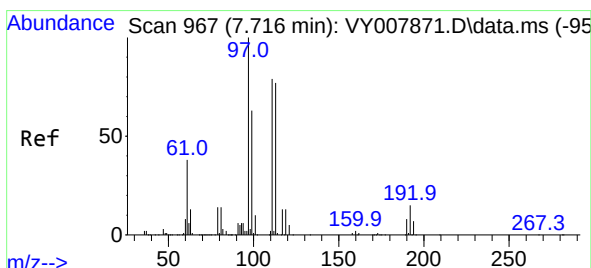
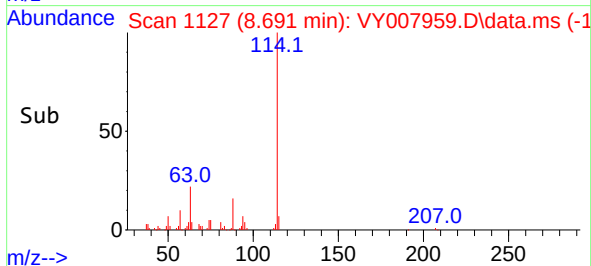
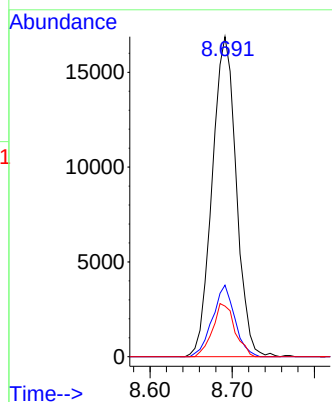
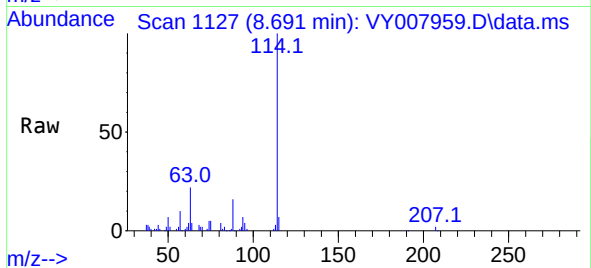
Tgt Ion:114 Resp: 34243

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.2

88 15.8 0.0 31.8



#35

Dibromofluoromethane

Concen: 43.982 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY007959.D

Acq: 21 Mar 2022 16:59

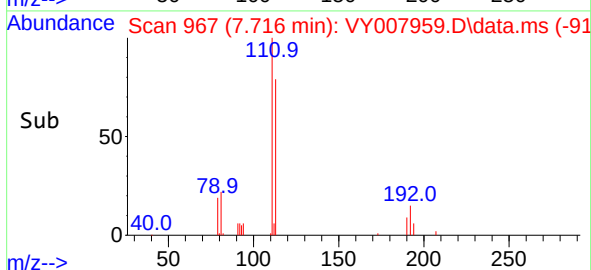
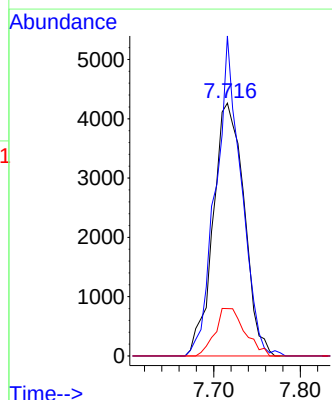
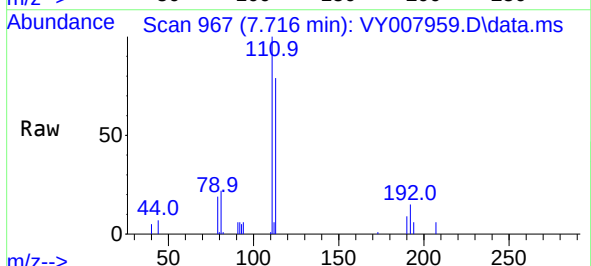
Tgt Ion:113 Resp: 10577

Ion Ratio Lower Upper

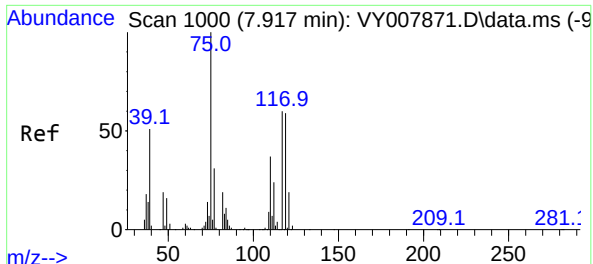
113 100

111 104.3 82.6 124.0

192 18.1 17.6 26.4



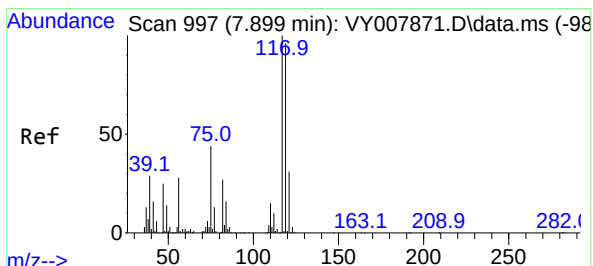
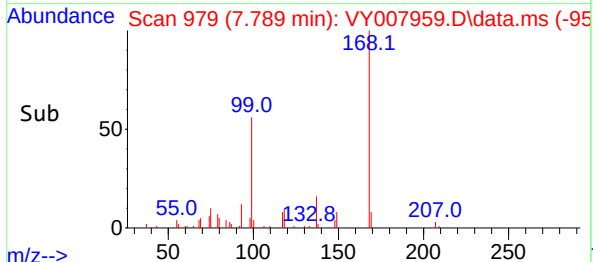
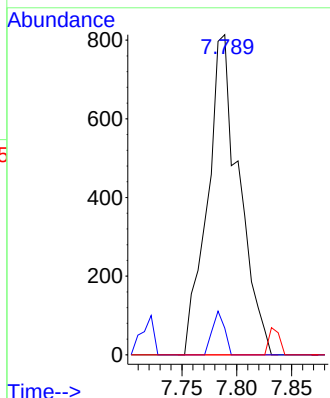
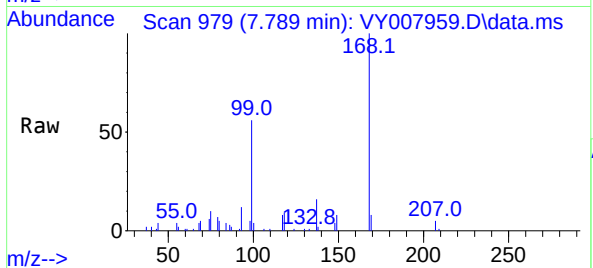




#36  
 1,1-Dichloropropene  
 Concen: 4.584 ug/l  
 RT: 7.789 min Scan# 91  
 Delta R.T. -0.128 min  
 Lab File: VY007959.D  
 Acq: 21 Mar 2022 16:59

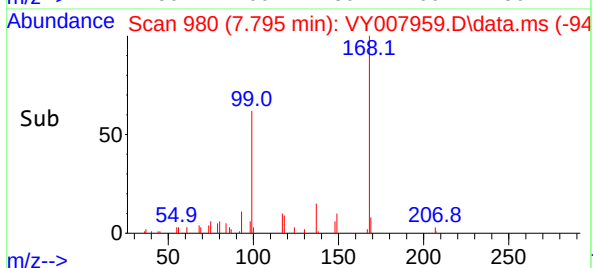
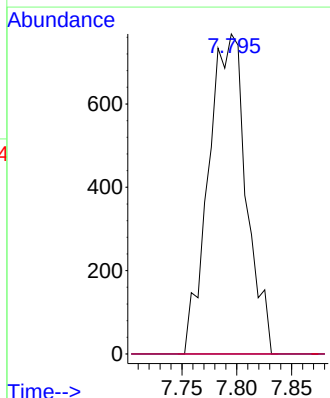
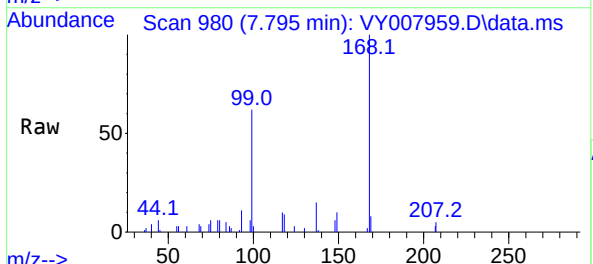
Instrument :  
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 C-9-8-9RE

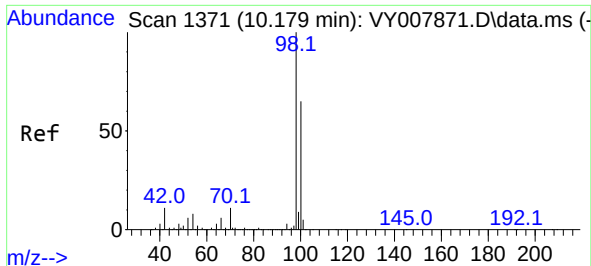
Tgt Ion: 75 Resp: 1635  
 Ion Ratio Lower Upper  
 75 100  
 110 5.3 17.1 51.2#  
 77 0.0 24.4 36.6#



#38  
 Carbon Tetrachloride  
 Concen: 4.825 ug/l  
 RT: 7.795 min Scan# 980  
 Delta R.T. -0.104 min  
 Lab File: VY007959.D  
 Acq: 21 Mar 2022 16:59

Tgt Ion: 117 Resp: 1839  
 Ion Ratio Lower Upper  
 117 100  
 119 0.0 77.9 116.9#  
 121 0.0 24.8 37.2#

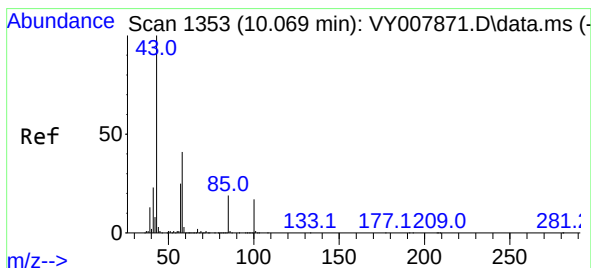
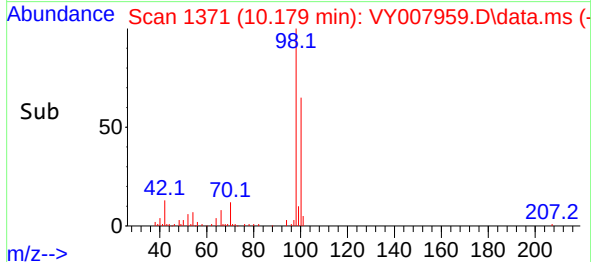
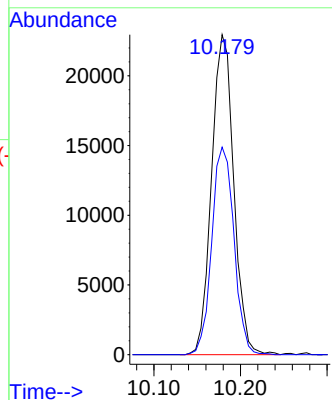
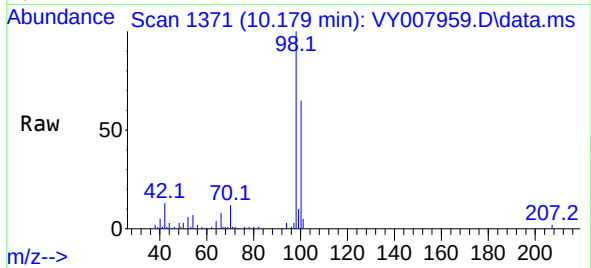




#50  
Toluene-d8  
Concen: 56.908 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

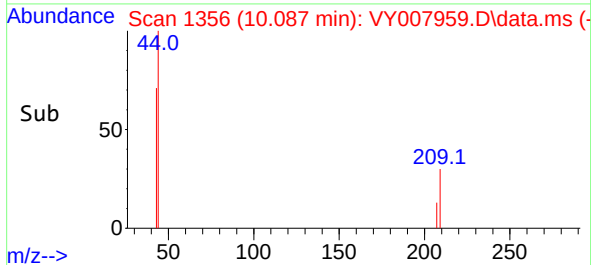
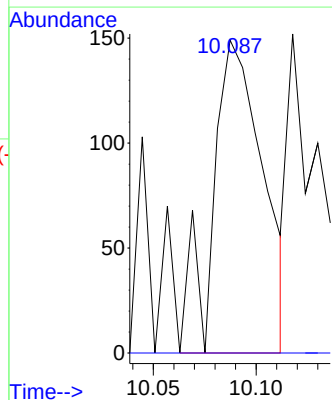
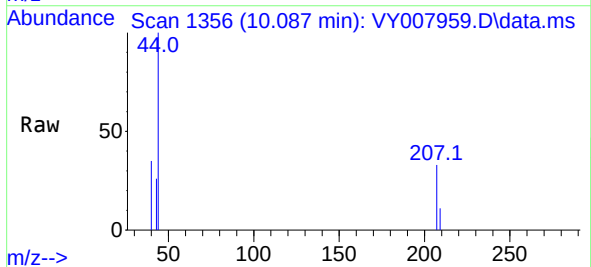
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C-9-8-9RE

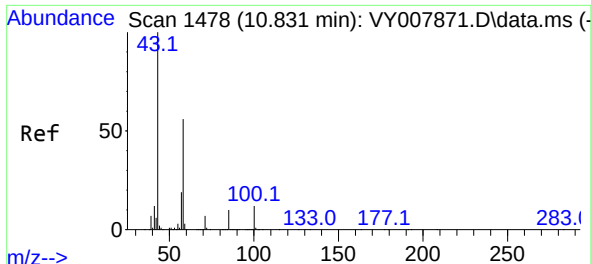
Tgt Ion: 98 Resp: 40731  
Ion Ratio Lower Upper  
98 100  
100 65.1 50.2 75.2



#51  
4-Methyl-2-Pentanone  
Concen: 1.154 ug/l  
RT: 10.087 min Scan# 1356  
Delta R.T. 0.018 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

Tgt Ion: 43 Resp: 255  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.1 42.1#





#59

2-Hexanone

Concen: 1.392 ug/l

RT: 10.813 min Scan# 1478

Delta R.T. -0.018 min

Lab File: VY007959.D

Acq: 21 Mar 2022 16:59

Instrument :

MSVOA\_Y

ClientSampleId :

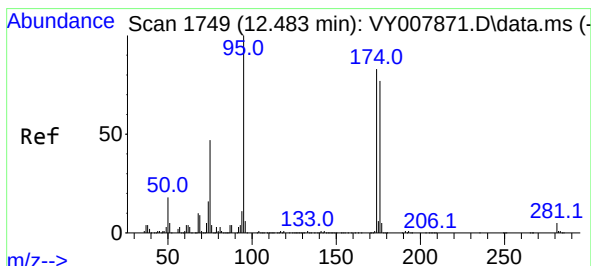
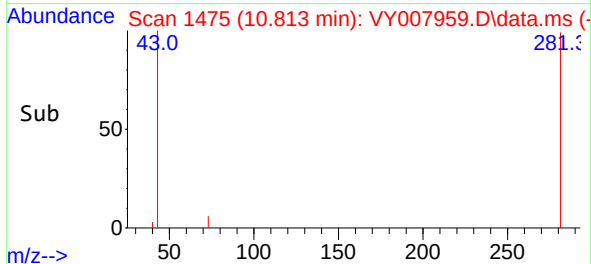
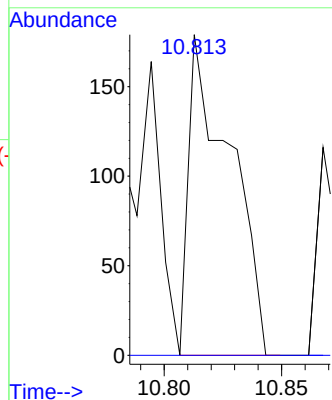
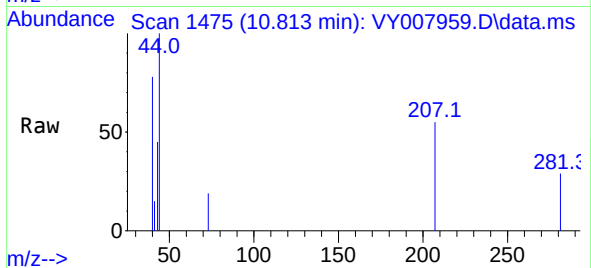
C-9-8-9RE

Tgt Ion: 43 Resp: 220

Ion Ratio Lower Upper

43 100

58 0.0 24.4 73.4#



#62

4-Bromofluorobenzene

Concen: 39.957 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VY007959.D

Acq: 21 Mar 2022 16:59

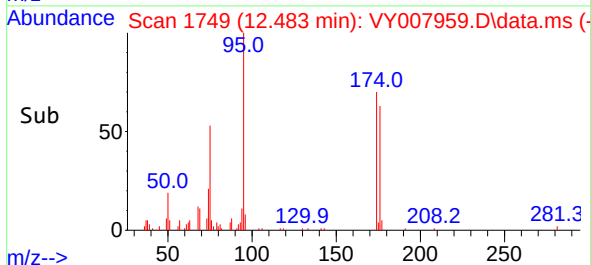
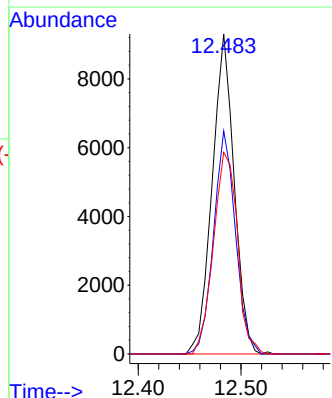
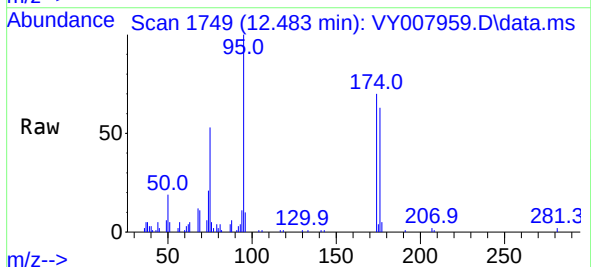
Tgt Ion: 95 Resp: 13791

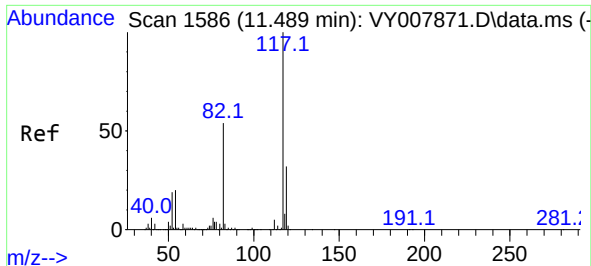
Ion Ratio Lower Upper

95 100

174 69.8 0.0 177.0

176 68.7 0.0 175.8

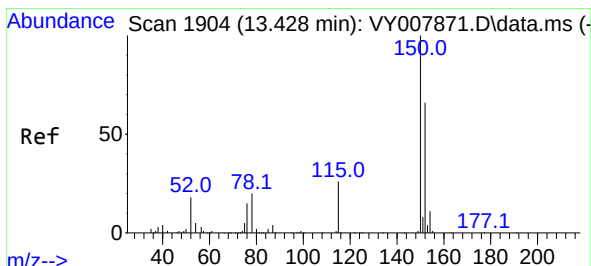
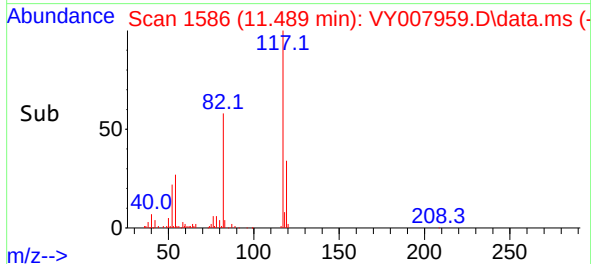
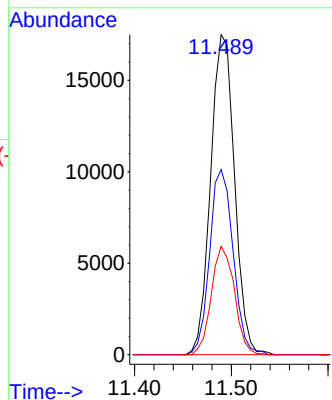
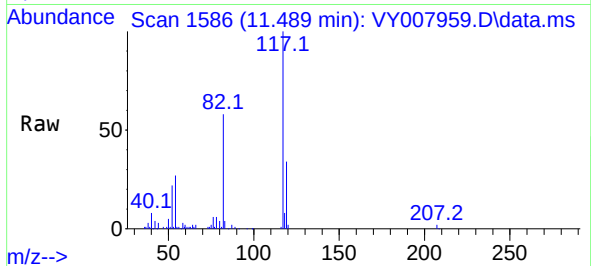




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

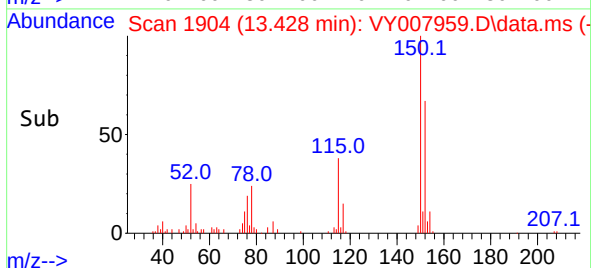
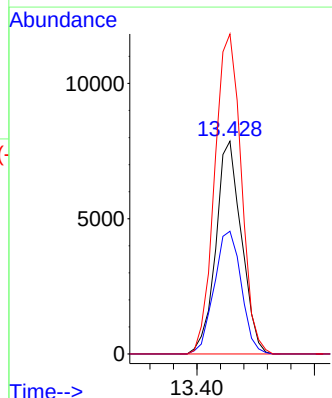
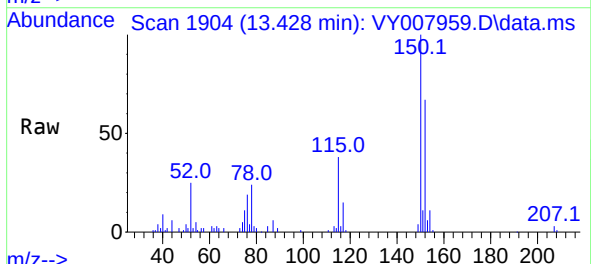
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C-9-8-9RE

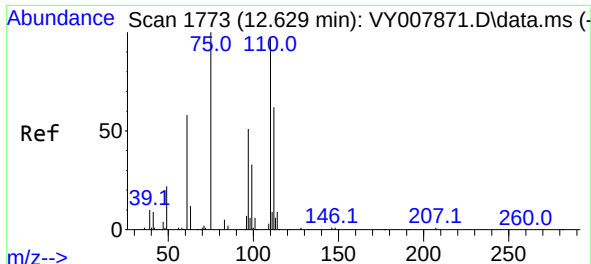
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:117 | Resp: | 30101       |
| Ion         | Ratio | Lower Upper |
| 117         | 100   |             |
| 82          | 57.9  | 43.0 64.4   |
| 119         | 33.8  | 25.4 38.0   |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:152 | Resp: | 11938       |
| Ion         | Ratio | Lower Upper |
| 152         | 100   |             |
| 115         | 61.0  | 28.2 84.7   |
| 150         | 155.9 | 0.0 347.6   |

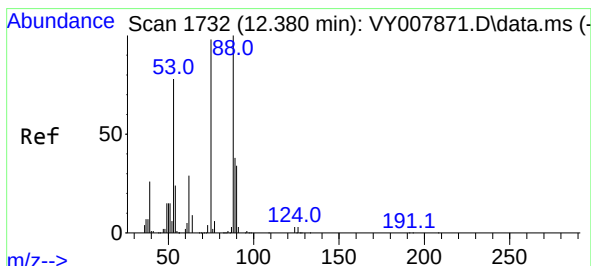
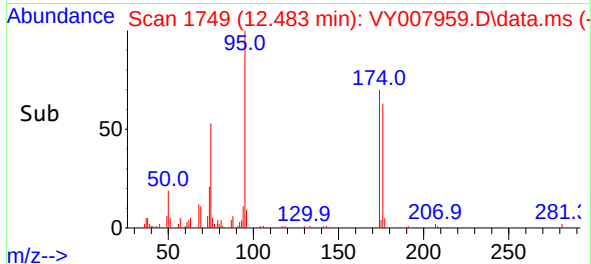
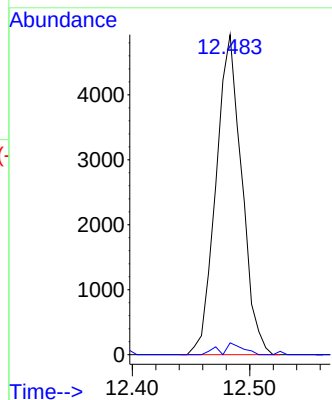
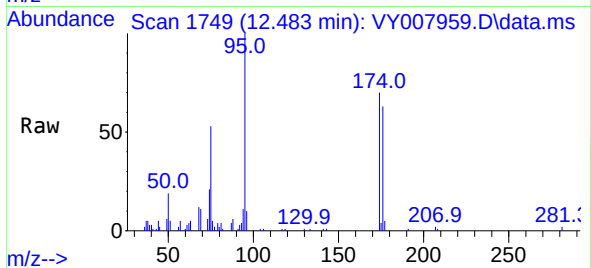




#76  
1,2,3-Trichloropropane  
Concen: 44.153 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

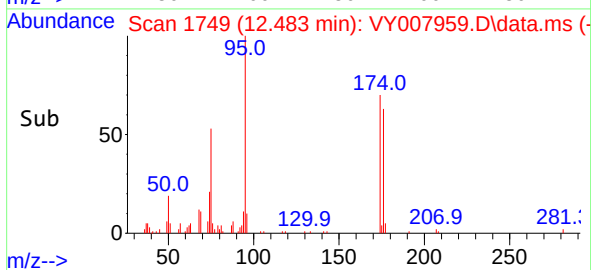
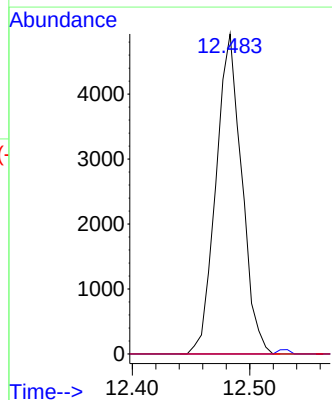
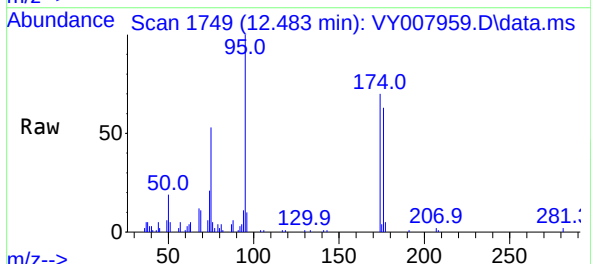
Instrument :  
MSVOA\_Y  
ClientSampleId :  
C-9-8-9RE

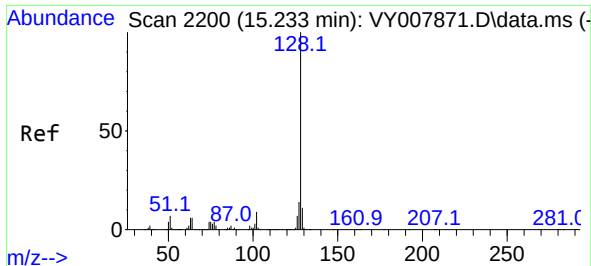
Tgt Ion: 75 Resp: 7513  
Ion Ratio Lower Upper  
75 100  
77 3.0 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.740 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

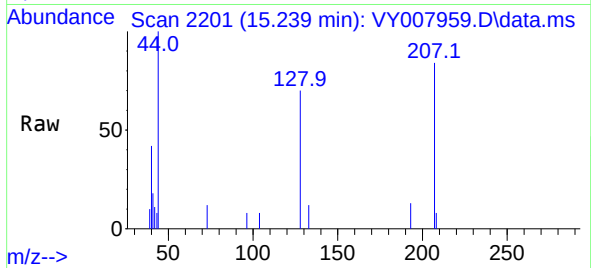
Tgt Ion: 75 Resp: 7513  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.3 127.9#  
89 0.0 37.0 55.4#





#95  
Naphthalene  
Concen: 1.148 ug/l  
RT: 15.239 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VY007959.D  
Acq: 21 Mar 2022 16:59

Instrument :  
MSVOA\_Y  
ClientSampleId :  
C-9-8-9RE



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 683   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 11.0  | 16.4# |
| 129      | 6.9   | 8.4   | 12.6# |

