

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121422\  
 Data File : VY011858.D  
 Acq On : 14 Dec 2022 20:05  
 Operator : KP/MD  
 Sample : N6038-11  
 Misc : 3.93g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RB-34-(1.5-2)

Quant Time: Dec 15 01:24:14 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Dec 10 04:19:59 2022  
 Response via : Initial Calibration

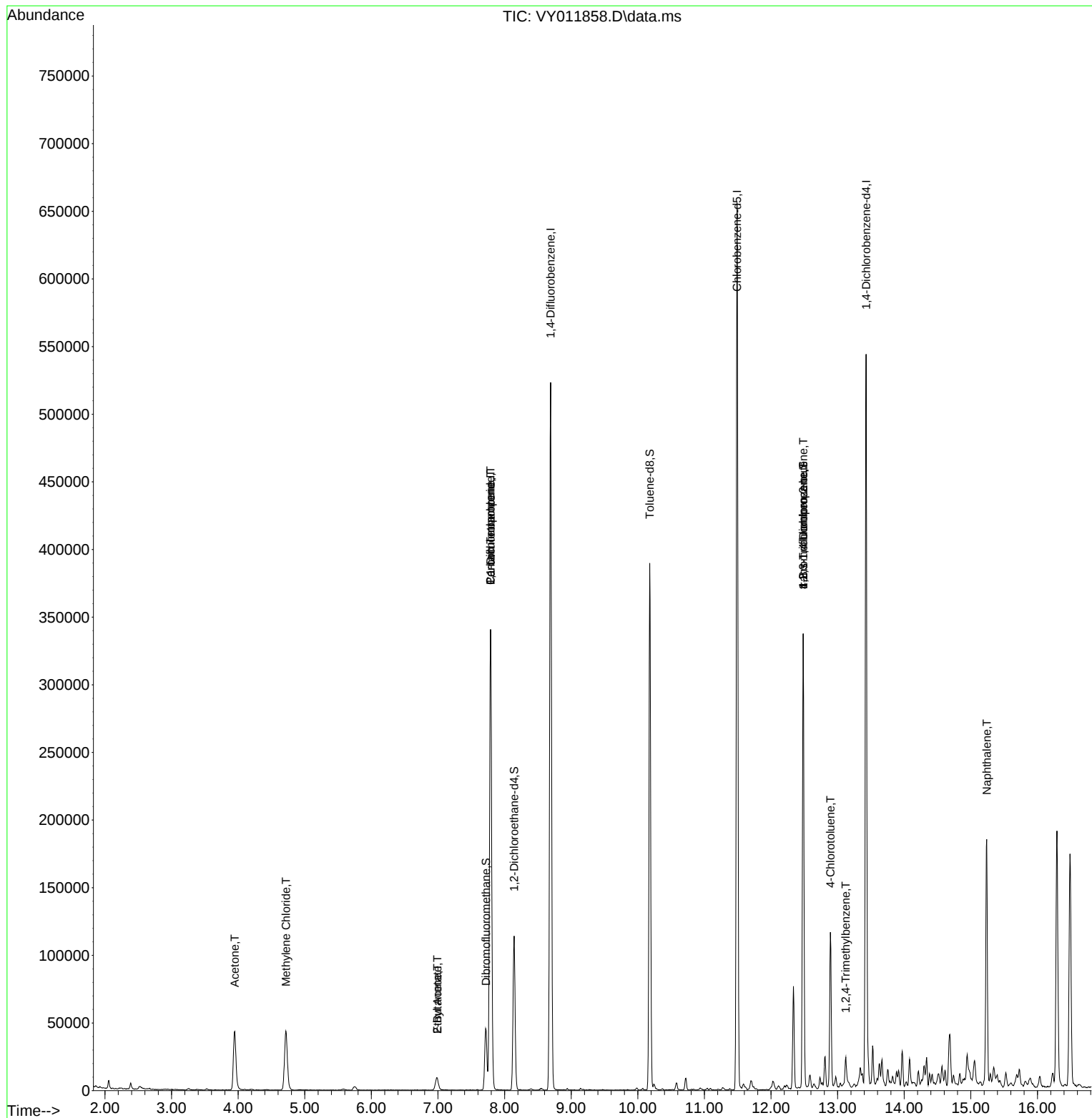
| Compound                      | R.T.           | QIon | Response   | Conc      | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|-------|----------|
| -----                         |                |      |            |           |       |          |
| Internal Standards            |                |      |            |           |       |          |
| 1) Pentafluorobenzene         | 7.789          | 168  | 261837     | 50.000    | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.691          | 114  | 440482     | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.489         | 117  | 362087     | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428         | 152  | 141938     | 50.000    | ug/l  | 0.00     |
|                               |                |      |            |           |       |          |
| System Monitoring Compounds   |                |      |            |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.142          | 65   | 88201      | 49.297    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = | 98.600%   |       |          |
| 35) Dibromofluoromethane      | 7.722          | 113  | 32552      | 13.819    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = | 27.640%#  |       |          |
| 50) Toluene-d8                | 10.179         | 98   | 259186     | 38.924    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = | 77.840%   |       |          |
| 62) 4-Bromofluorobenzene      | 12.483         | 95   | 95478      | 36.118    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = | 72.240%   |       |          |
|                               |                |      |            |           |       |          |
| Target Compounds              |                |      |            |           |       |          |
| 2) Dichlorodifluoromethane    | 1.900          | 85   | 40         | Below Cal | #     | 41       |
| 3) Chloromethane              | 2.119          | 50   | 166        | Below Cal | #     | 41       |
| 5) Bromomethane               | 2.674          | 94   | 173        | Below Cal | #     | 71       |
| 11) Tert butyl alcohol        | 4.954          | 59   | 598        | Below Cal | #     | 74       |
| 16) Acetone                   | 3.948          | 43   | 75977      | 106.268   | ug/l  | 97       |
| 18) Methyl Acetate            | 4.497          | 43   | 46         | Below Cal | #     | 50       |
| 20) Methylene Chloride        | 4.716          | 84   | 33152      | 8.103     | ug/l  | 97       |
| 25) 2-Butanone                | 6.990          | 43   | 9985       | 10.857    | ug/l  | 98       |
| 31) Cyclohexane               | 7.789          | 56   | 5402       | Below Cal | #     | 12       |
| 36) 1,1-Dichloropropene       | 7.789          | 75   | 19966      | 5.973     | ug/l  | # 49     |
| 37) Ethyl Acetate             | 6.990          | 43   | 9985       | 5.110     | ug/l  | # 71     |
| 38) Carbon Tetrachloride      | 7.789          | 117  | 26827      | 6.833     | ug/l  | # 18     |
| 76) 1,2,3-Trichloropropane    | 12.483         | 75   | 50378      | 35.081    | ug/l  | # 100    |
| 81) trans-1,4-Dichloro-2-b... | 12.483         | 75   | 50378      | 79.606    | ug/l  | # 13     |
| 82) 4-Chlorotoluene           | 12.891         | 91   | 15045      | 2.306     | ug/l  | # 41     |
| 84) 1,2,4-Trimethylbenzene    | 13.123         | 105  | 12701      | 1.660     | ug/l  | 91       |
| 95) Naphthalene               | 15.239         | 128  | 150145     | 34.182    | ug/l  | 100      |
| -----                         |                |      |            |           |       |          |

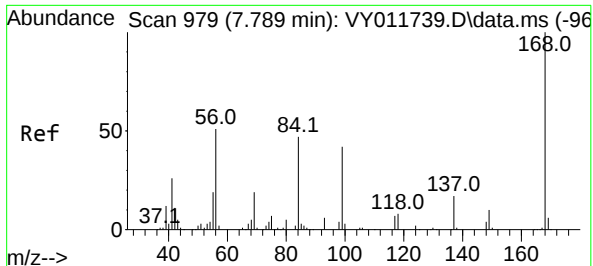
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY121422\  
Data File : VY011858.D  
Acq On : 14 Dec 2022 20:05  
Operator : KP/MD  
Sample : N6038-11  
Misc : 3.93g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

Quant Time: Dec 15 01:24:14 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y120922S.M  
Quant Title : SW846 8260  
QLast Update : Sat Dec 10 04:19:59 2022  
Response via : Initial Calibration

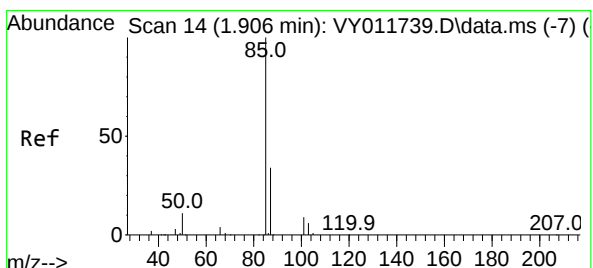
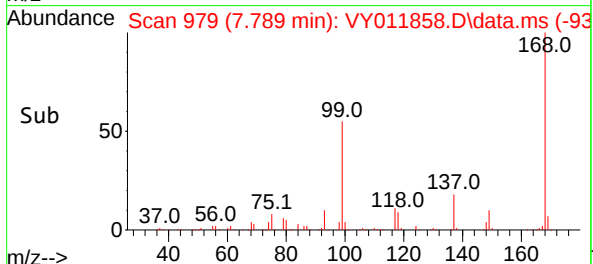
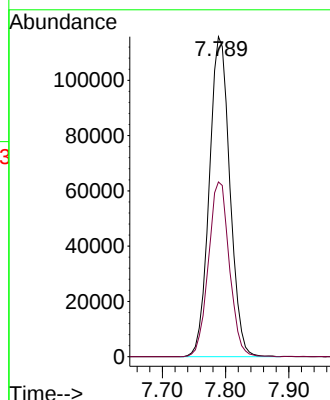
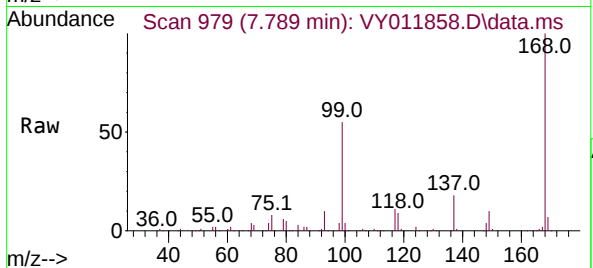




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

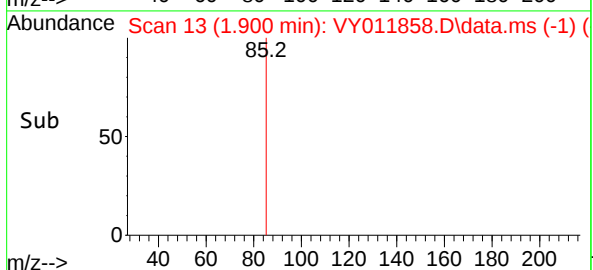
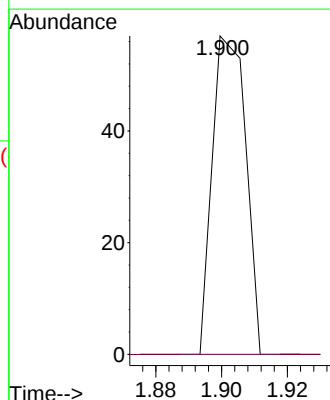
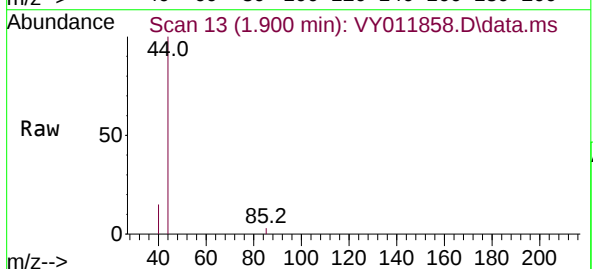
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

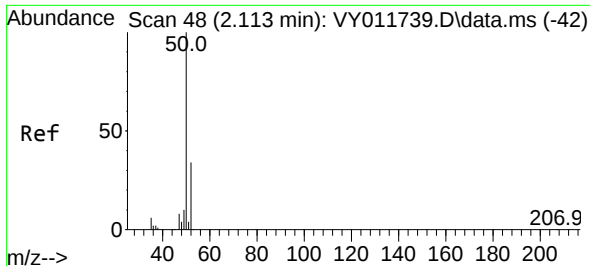
Tgt Ion:168 Resp: 261837  
Ion Ratio Lower Upper  
168 100  
99 54.6 44.0 66.0



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.900 min Scan# 13  
Delta R.T. -0.006 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 85 Resp: 40  
Ion Ratio Lower Upper  
85 100  
87 0.0 16.8 50.4#

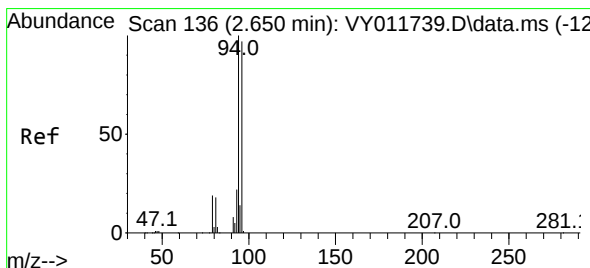
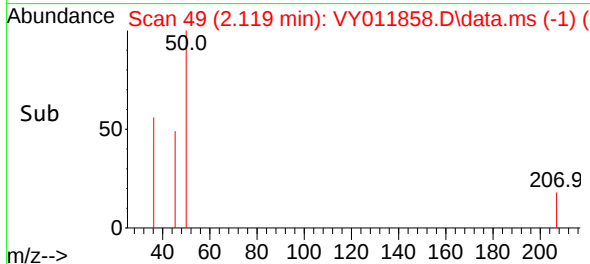
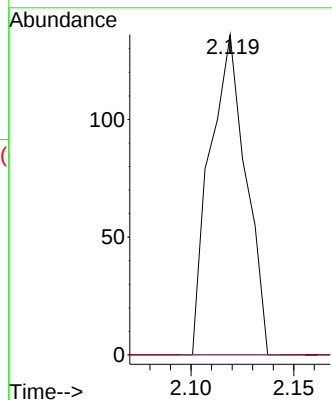
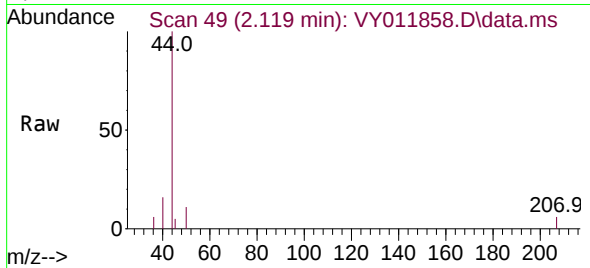




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.119 min Scan# 49  
Delta R.T. 0.006 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

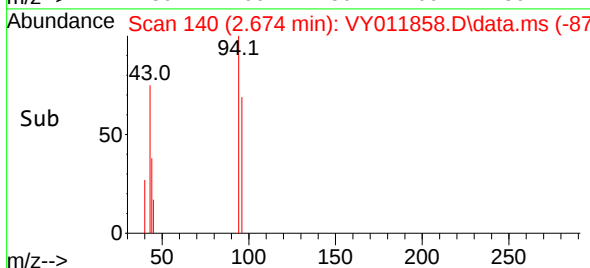
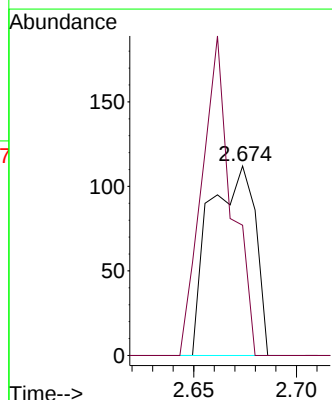
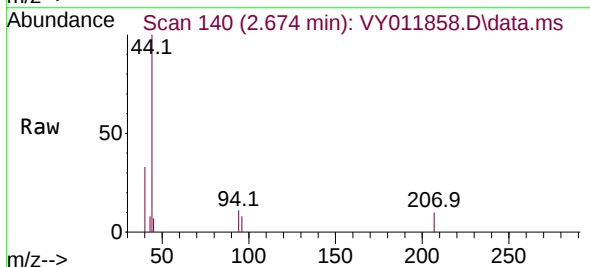
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

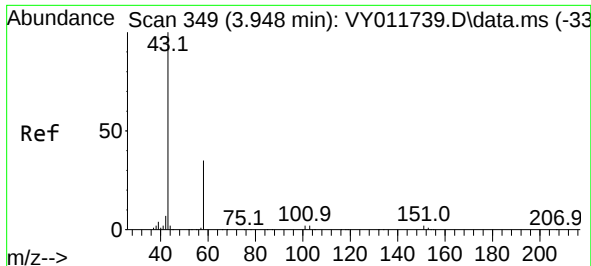
Tgt Ion: 50 Resp: 166  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.8 40.2#



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.674 min Scan# 140  
Delta R.T. 0.024 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 94 Resp: 173  
Ion Ratio Lower Upper  
94 100  
96 68.8 77.4 116.2#

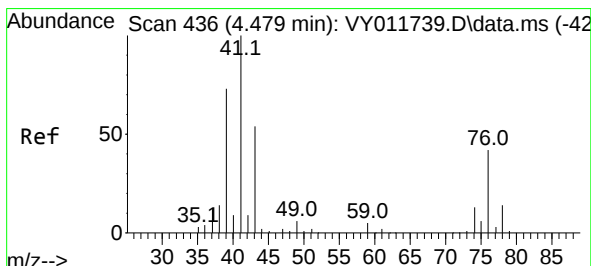
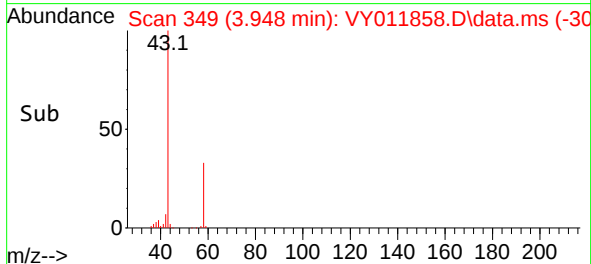
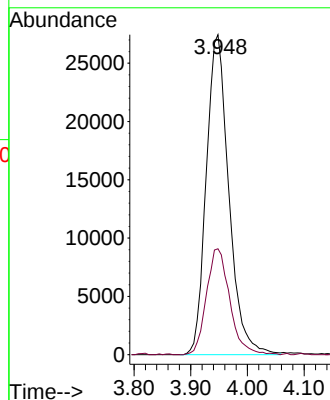
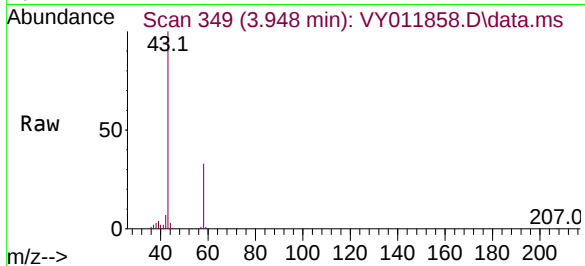




#16  
Acetone  
Concen: 106.268 ug/l  
RT: 3.948 min Scan# 349  
Delta R.T. -0.000 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

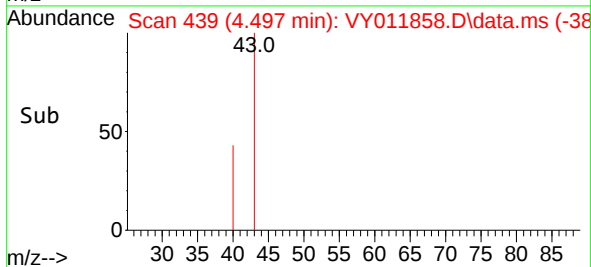
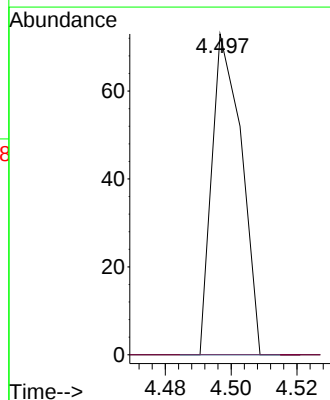
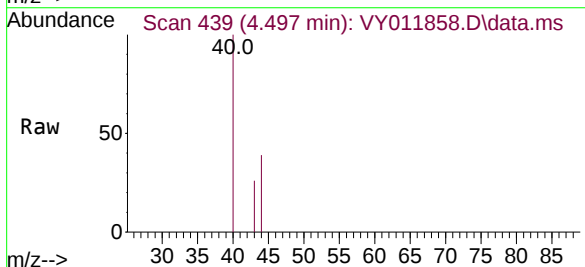
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

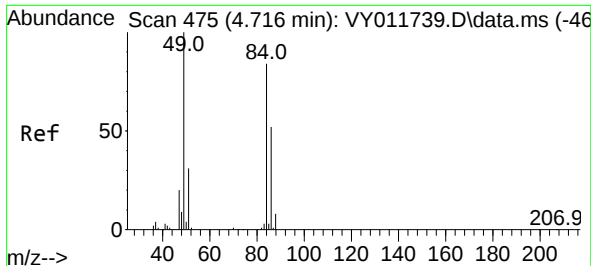
Tgt Ion: 43 Resp: 75977  
Ion Ratio Lower Upper  
43 100  
58 33.1 27.9 41.9



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.497 min Scan# 439  
Delta R.T. 0.018 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 43 Resp: 46  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.1 30.1#

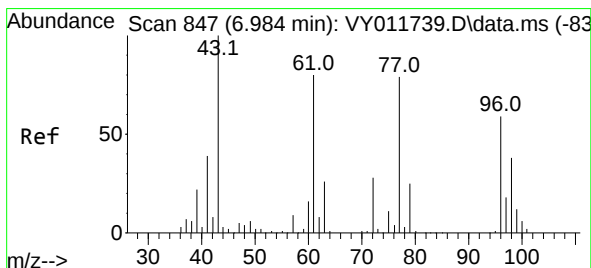
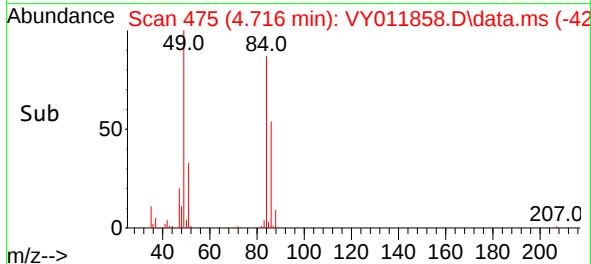
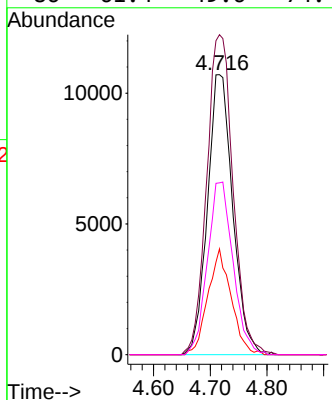
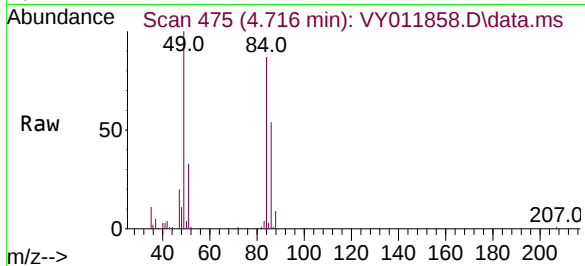




#20  
Methylene Chloride  
Concen: 8.103 ug/l  
RT: 4.716 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

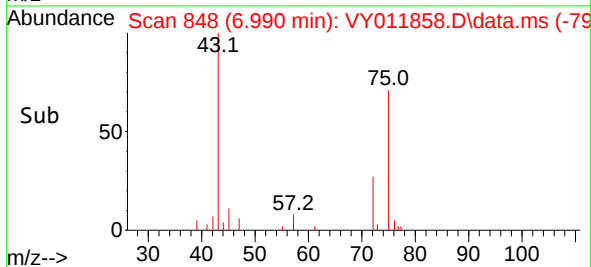
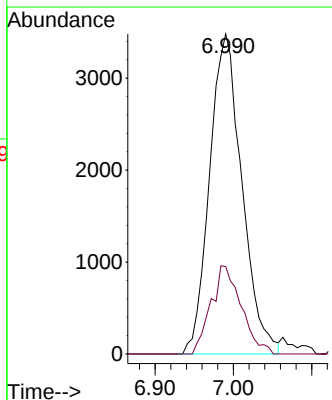
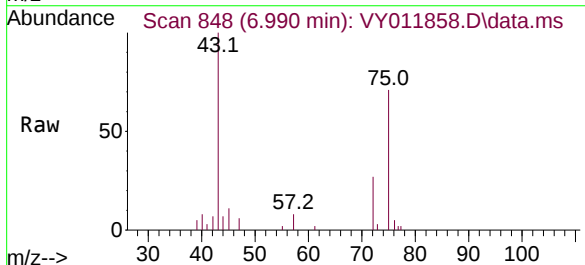
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

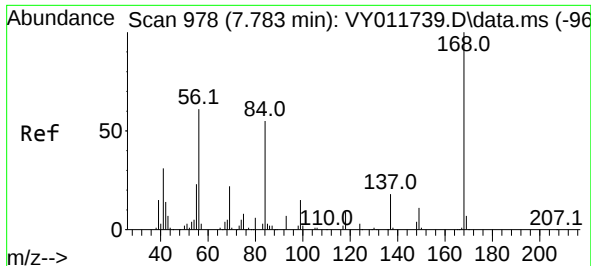
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 33152 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 114.3 | 95.4  | 143.2 |
| 51       | 37.8  | 29.9  | 44.9  |
| 86       | 61.4  | 49.6  | 74.4  |



#25  
2-Butanone  
Concen: 10.857 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9985  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 27.3  | 22.6  | 34.0  |

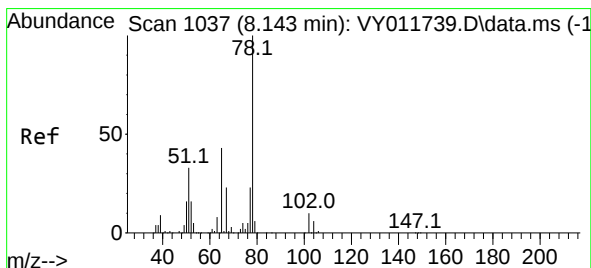
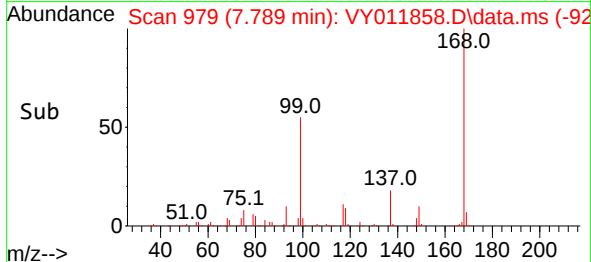
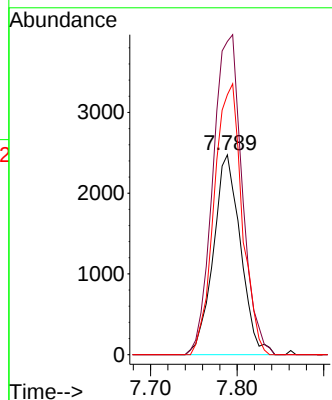
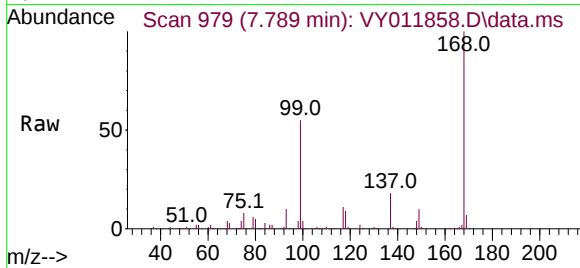




#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

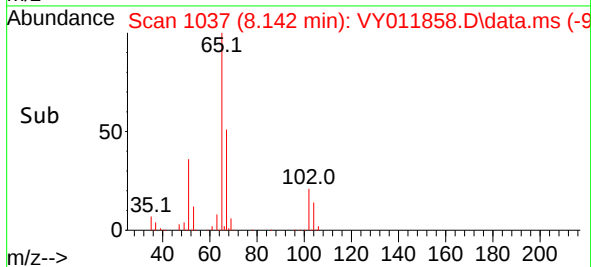
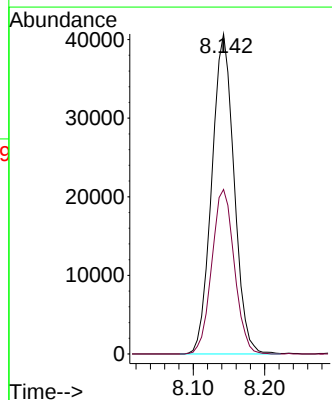
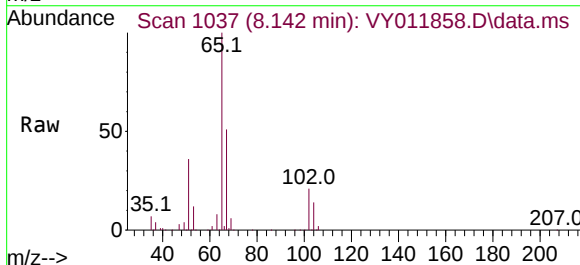
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

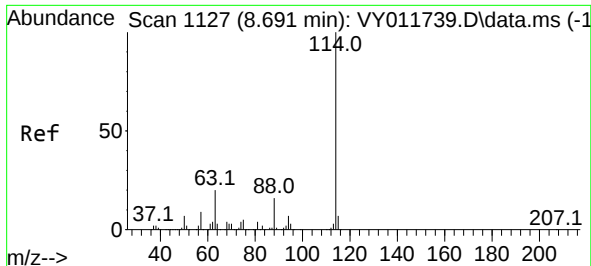
Tgt Ion: 56 Resp: 5402  
Ion Ratio Lower Upper  
56 100  
69 156.7 29.2 43.8#  
84 130.1 72.6 108.8#



#33  
1,2-Dichloroethane-d4  
Concen: 49.297 ug/l  
RT: 8.142 min Scan# 1037  
Delta R.T. -0.001 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 65 Resp: 88201  
Ion Ratio Lower Upper  
65 100  
67 51.9 0.0 103.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY011858.D

Acq: 14 Dec 2022 20:05

Instrument :

MSVOA\_Y

ClientSampleId :

RB-34-(1.5-2)

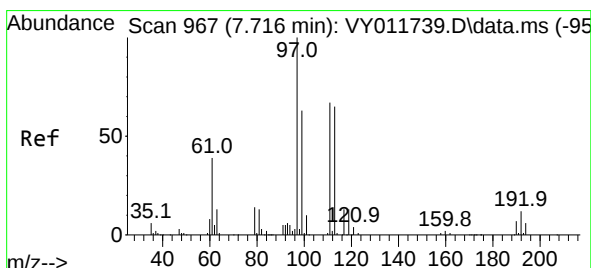
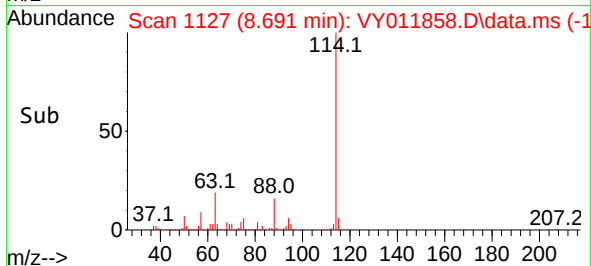
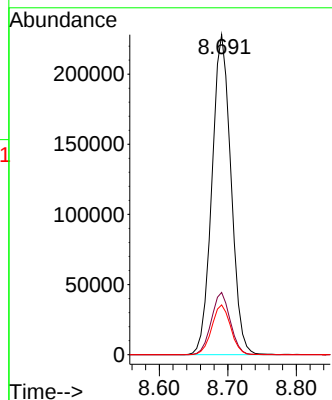
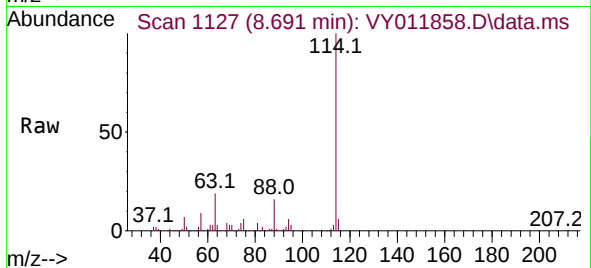
Tgt Ion:114 Resp: 440482

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 15.6 0.0 32.2



#35

Dibromofluoromethane

Concen: 13.819 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.006 min

Lab File: VY011858.D

Acq: 14 Dec 2022 20:05

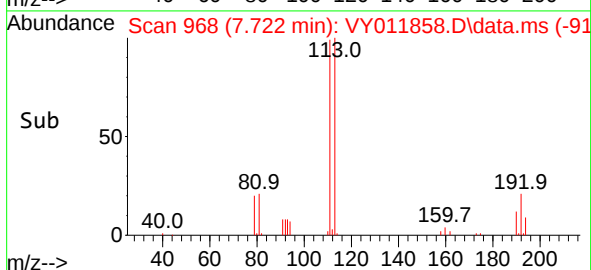
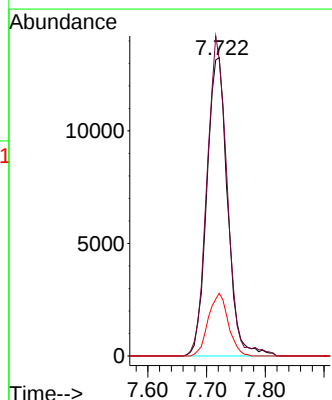
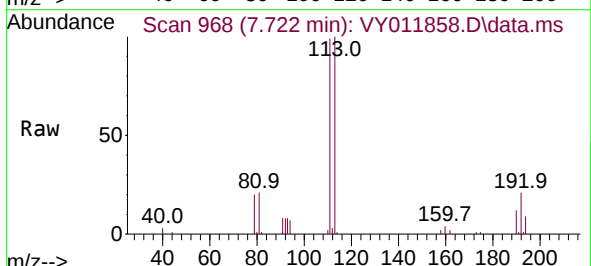
Tgt Ion:113 Resp: 32552

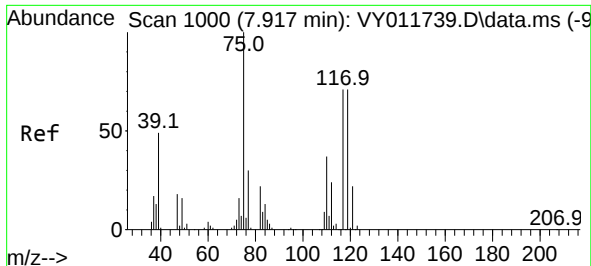
Ion Ratio Lower Upper

113 100

111 103.8 83.0 124.4

192 20.1 16.0 24.0

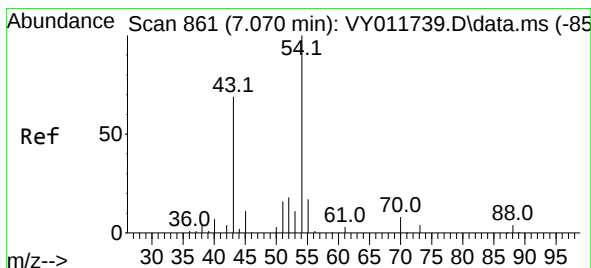
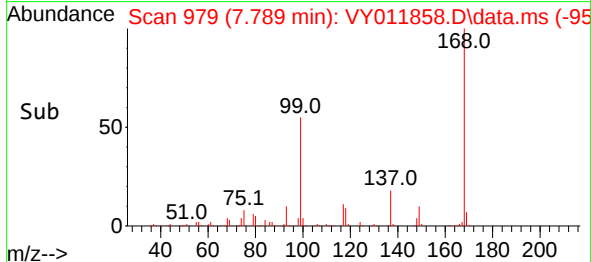
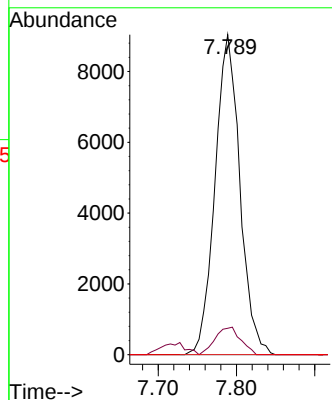
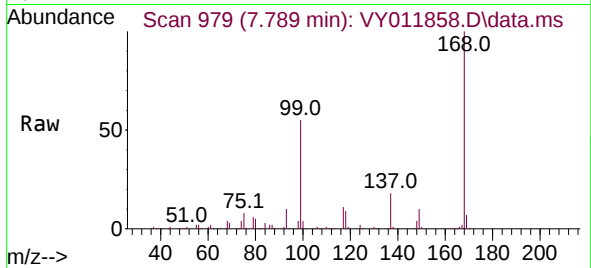




#36  
1,1-Dichloropropene  
Concen: 5.973 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

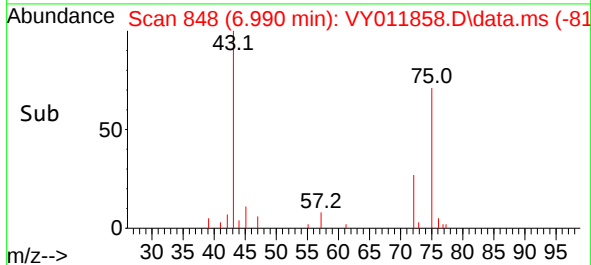
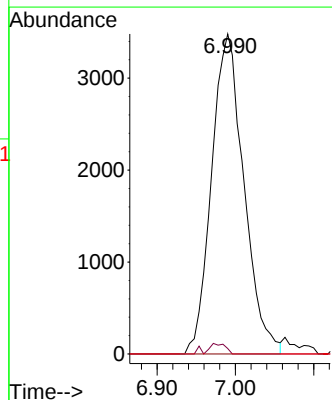
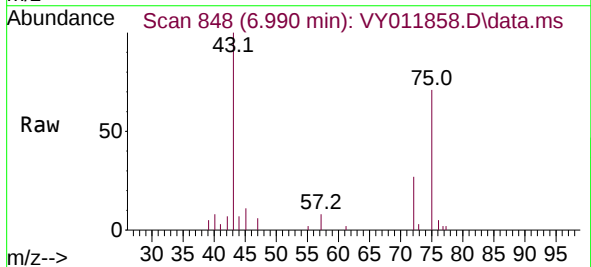
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

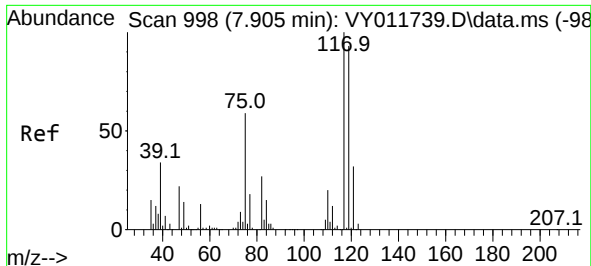
Tgt Ion: 75 Resp: 19966  
Ion Ratio Lower Upper  
75 100  
110 8.8 18.1 54.1#  
77 0.0 25.1 37.7#



#37  
Ethyl Acetate  
Concen: 5.110 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. -0.080 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 43 Resp: 9985  
Ion Ratio Lower Upper  
43 100  
61 1.6 11.3 16.9#  
70 0.0 8.2 12.4#

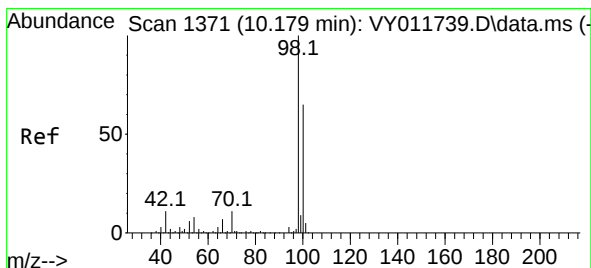
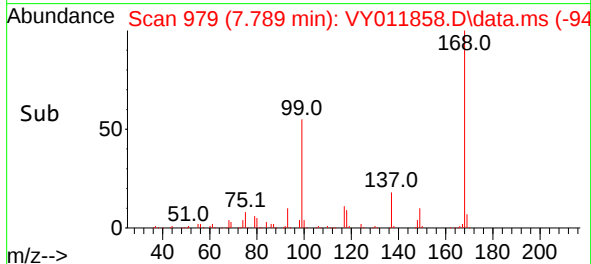
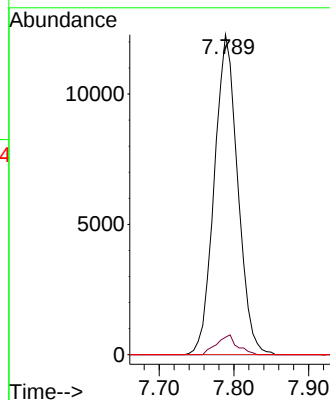
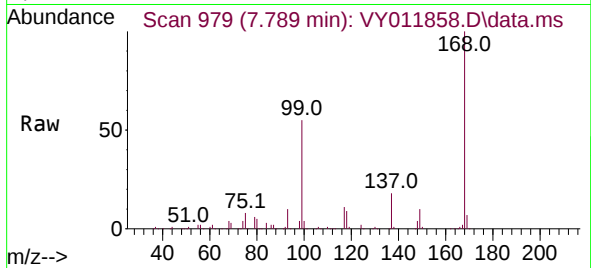




#38  
Carbon Tetrachloride  
Concen: 6.833 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.116 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

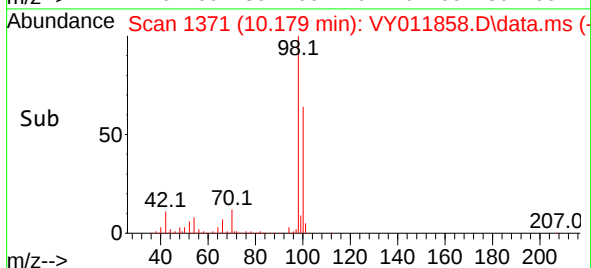
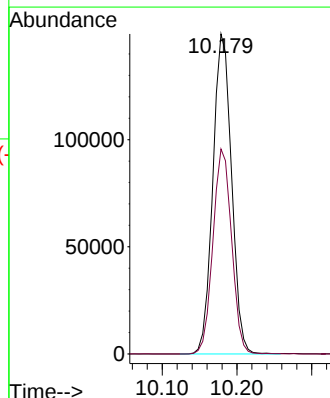
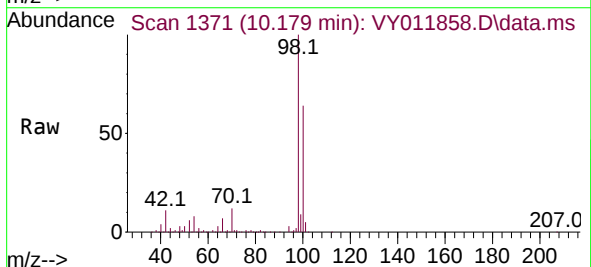
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

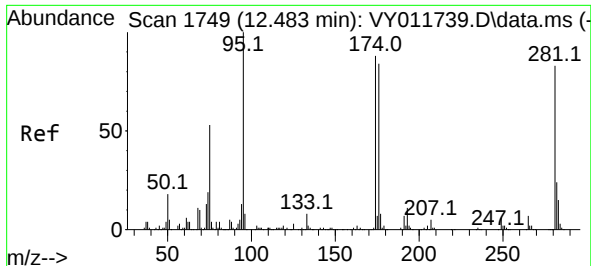
Tgt Ion:117 Resp: 26827  
Ion Ratio Lower Upper  
117 100  
119 5.5 73.8 110.8#  
121 0.0 25.2 37.8#



#50  
Toluene-d8  
Concen: 38.924 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. -0.000 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 98 Resp: 259186  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.9 77.9

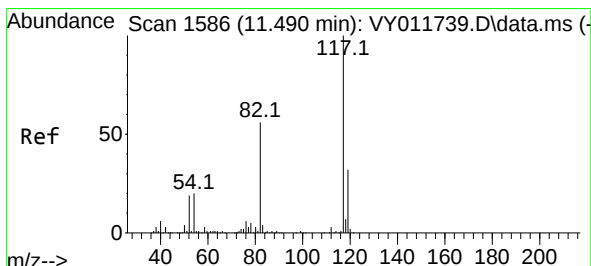
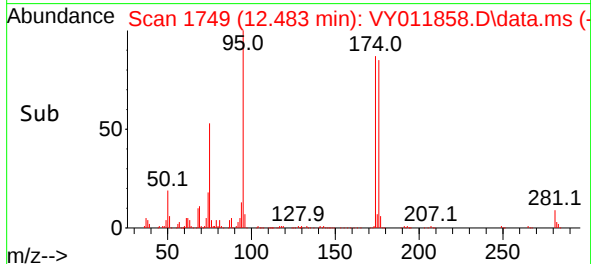
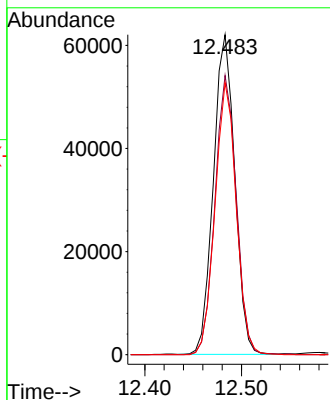
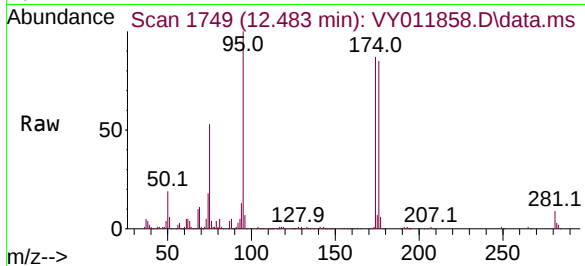




#62  
4-Bromofluorobenzene  
Concen: 36.118 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

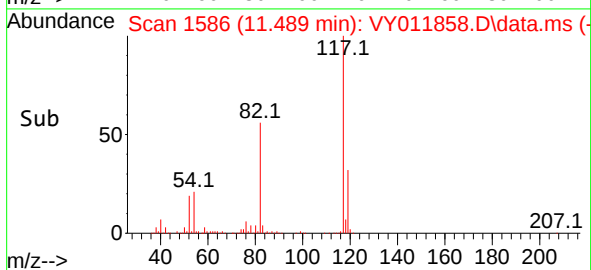
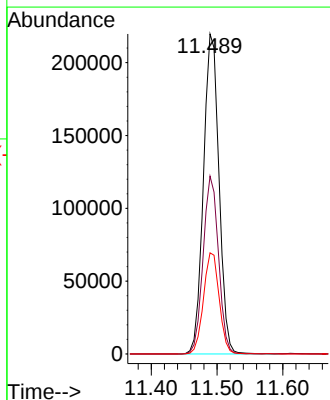
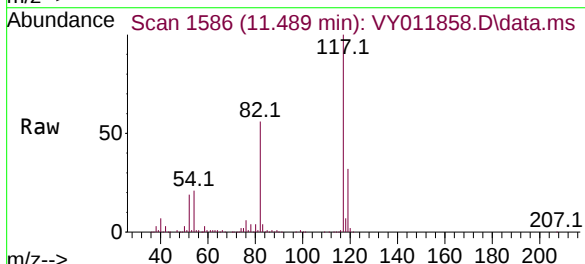
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

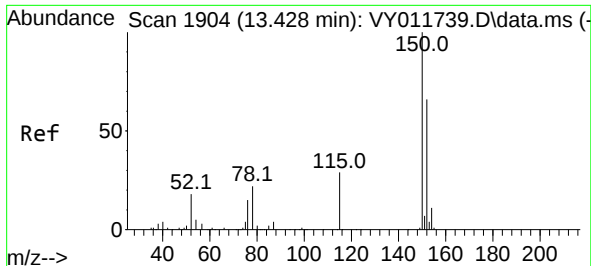
Tgt Ion: 95 Resp: 95478  
Ion Ratio Lower Upper  
95 100  
174 87.0 0.0 172.0  
176 83.9 0.0 167.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 117 Resp: 362087  
Ion Ratio Lower Upper  
117 100  
82 55.6 44.8 67.2  
119 31.6 25.4 38.2

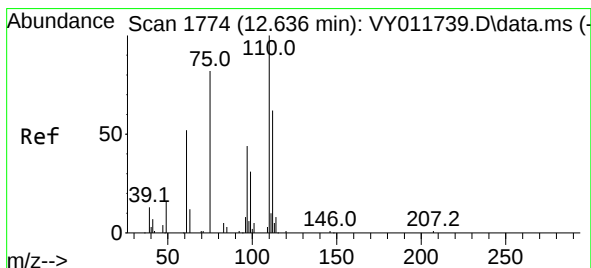
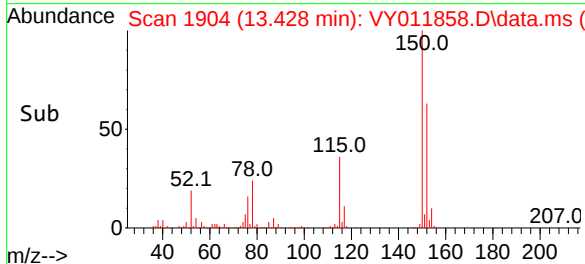
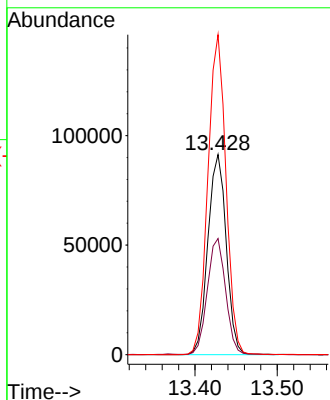
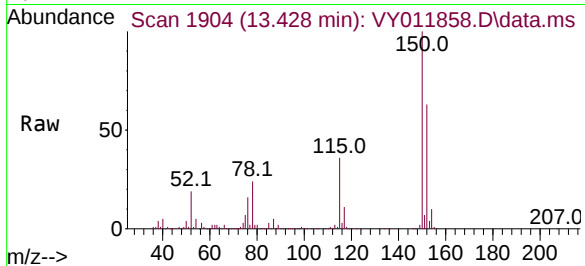




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.428 min Scan# 1419  
 Delta R.T. -0.000 min  
 Lab File: VY011858.D  
 Acq: 14 Dec 2022 20:05

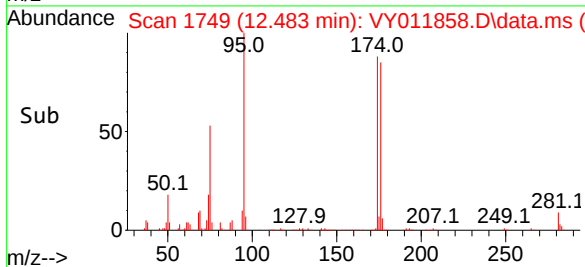
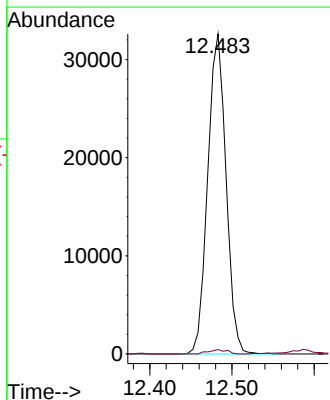
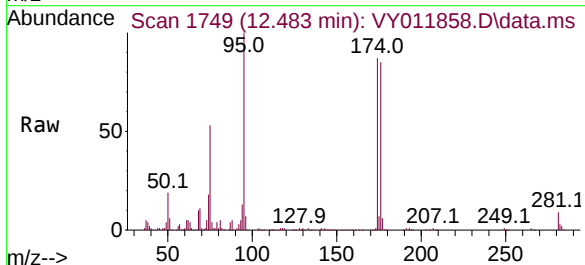
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 RB-34-(1.5-2)

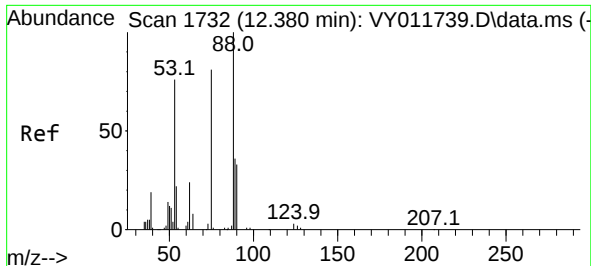
Tgt Ion:152 Resp: 141938  
 Ion Ratio Lower Upper  
 152 100  
 115 58.1 29.1 87.3  
 150 157.3 0.0 342.6



#76  
 1,2,3-Trichloropropane  
 Concen: 35.081 ug/l  
 RT: 12.483 min Scan# 1749  
 Delta R.T. -0.153 min  
 Lab File: VY011858.D  
 Acq: 14 Dec 2022 20:05

Tgt Ion: 75 Resp: 50378  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 0.0 0.0#

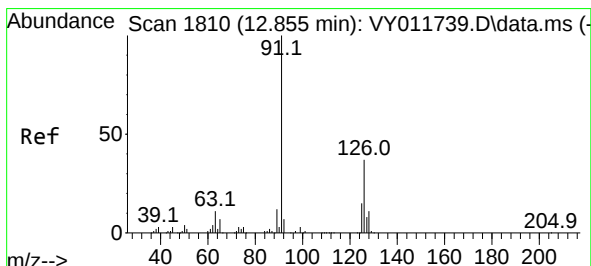
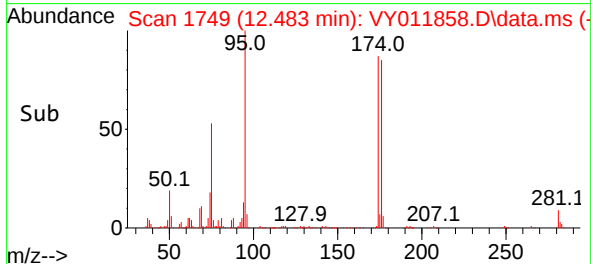
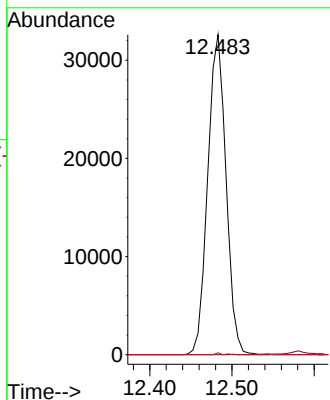
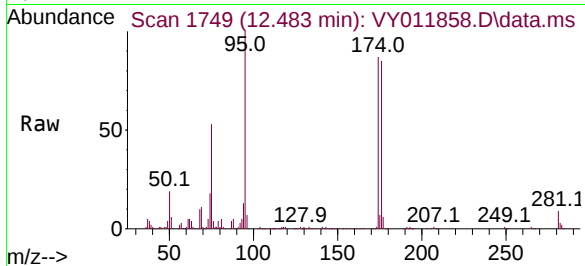




#81  
trans-1,4-Dichloro-2-butene  
Concen: 79.606 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.103 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

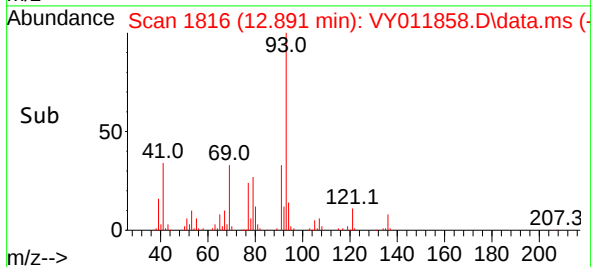
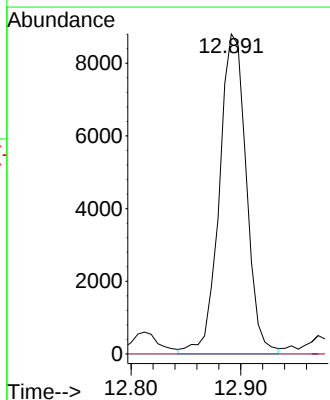
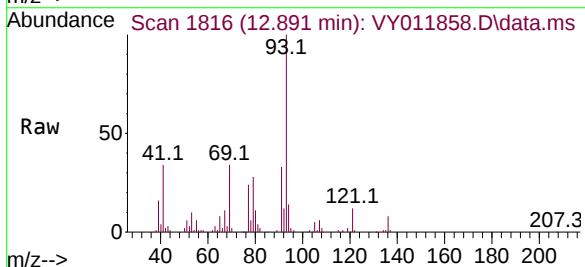
Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

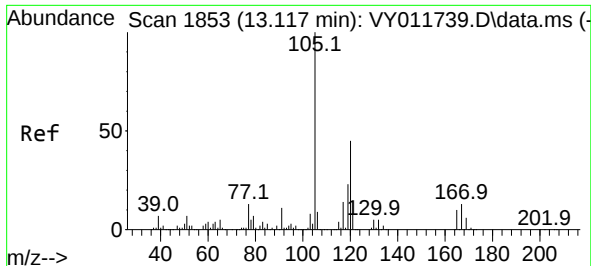
Tgt Ion: 75 Resp: 50378  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.5 108.7#  
89 0.2 37.0 55.4#



#82  
4-Chlorotoluene  
Concen: 2.306 ug/l  
RT: 12.891 min Scan# 1816  
Delta R.T. 0.036 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion: 91 Resp: 15045  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.1 51.2#

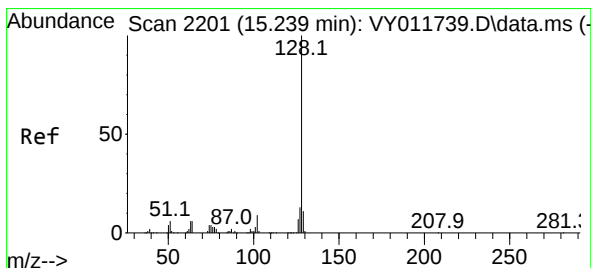
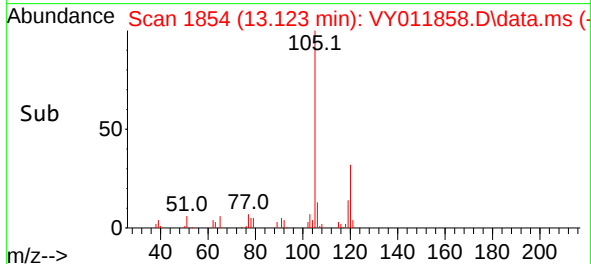
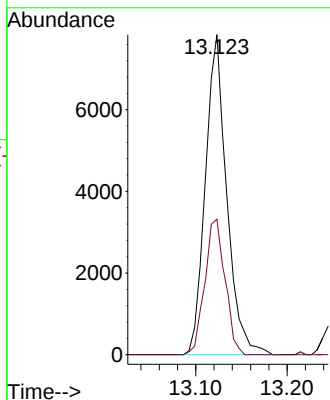
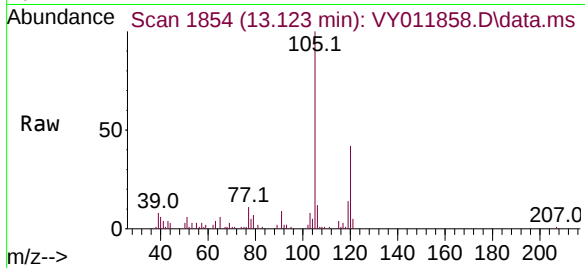




#84  
1,2,4-Trimethylbenzene  
Concen: 1.660 ug/l  
RT: 13.123 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
RB-34-(1.5-2)

Tgt Ion:105 Resp: 12701  
Ion Ratio Lower Upper  
105 100  
120 40.1 22.9 68.7



#95  
Naphthalene  
Concen: 34.182 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.000 min  
Lab File: VY011858.D  
Acq: 14 Dec 2022 20:05

Tgt Ion:128 Resp: 150145  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.2  
129 11.1 8.8 13.2

