

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102221\  
 Data File : VY006444.D  
 Acq On : 22 Oct 2021 17:11  
 Operator : SY/MD  
 Sample : M4315-01  
 Misc : 4.19G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MH-D-S

Quant Time: Oct 23 07:23:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y102221S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 23 06:59:04 2021  
 Response via : Initial Calibration

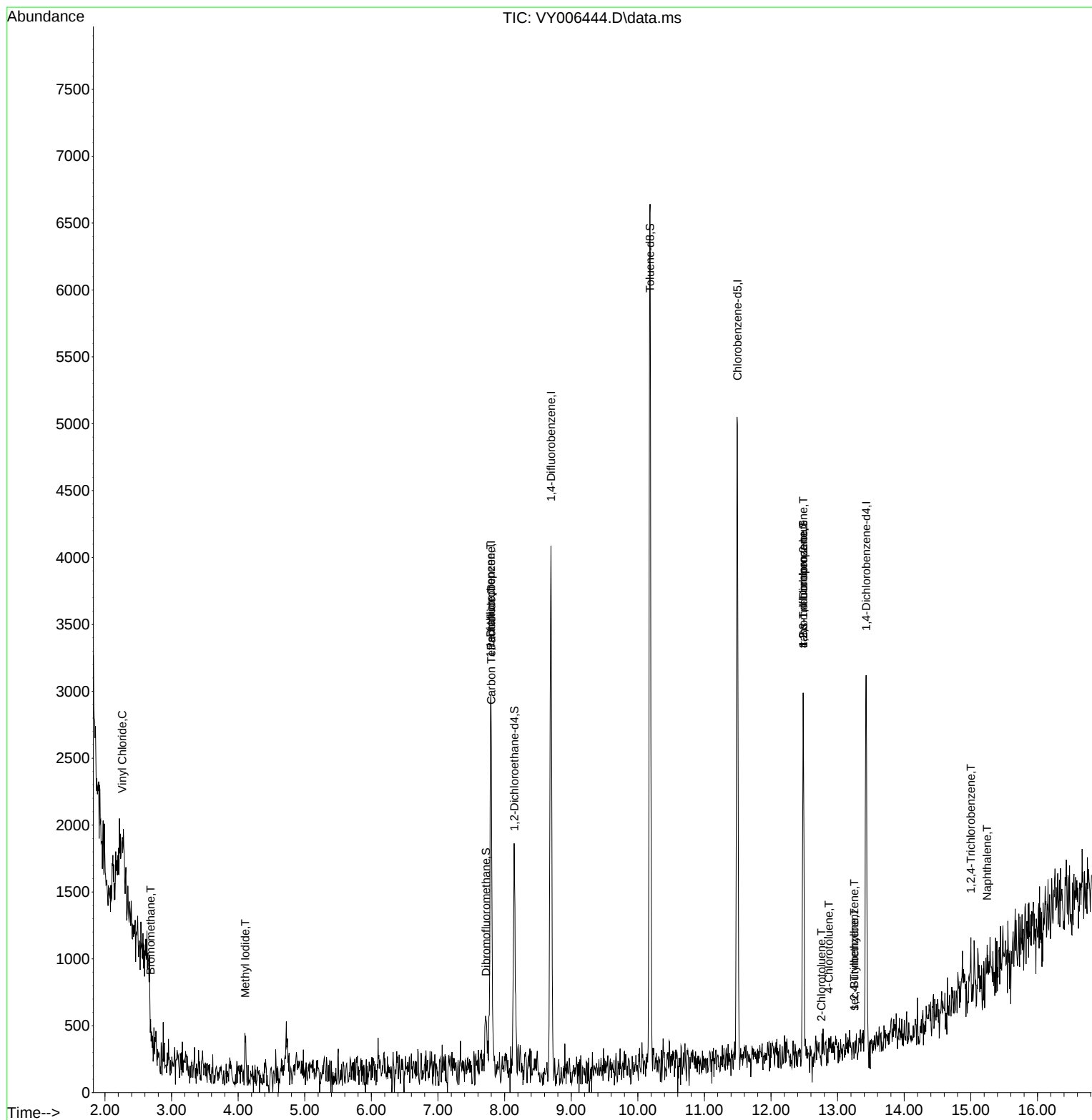
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 2548     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 3438     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.495 | 117   | 2677     | 50.000    | ug/l   | # 0.00   |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 910      | 50.000    | ug/l   | 0.00     |
|                               |        |       |          |           |        |          |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.148  | 65    | 1518     | 48.414    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 96.820%  |
| 35) Dibromofluoromethane      | 7.721  | 113   | 442      | 23.066    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 46.140%# |
| 50) Toluene-d8                | 10.184 | 98    | 4303     | 52.971    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 105.940% |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 868      | 31.721    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 63.440%  |
|                               |        |       |          |           |        |          |
| Target Compounds              |        |       |          |           |        | Qvalue   |
| 4) Vinyl Chloride             | 2.259  | 62    | 106      | 2.985     | ug/l # | 44       |
| 5) Bromomethane               | 2.686  | 94    | 32       | 1.353     | ug/l # | 4        |
| 10) Methyl Iodide             | 4.106  | 142   | 162      | 10.861    | ug/l # | 36       |
| 20) Methylene Chloride        | 4.722  | 84    | 84       | Below Cal | #      | 57       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 181      | 5.328     | ug/l # | 42       |
| 38) Carbon Tetrachloride      | 7.801  | 117   | 199      | 5.310     | ug/l # | 12       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 520      | 55.453    | ug/l # | 100      |
| 79) 2-Chlorotoluene           | 12.757 | 91    | 70       | 1.607     | ug/l # | 41       |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 520      | 113.843   | ug/l # | 7        |
| 82) 4-Chlorotoluene           | 12.867 | 91    | 52       | 1.146     | ug/l # | 41       |
| 84) 1,2,4-Trimethylbenzene    | 13.251 | 105   | 74       | 1.389     | ug/l # | 31       |
| 85) sec-Butylbenzene          | 13.251 | 105   | 74       | 1.076     | ug/l # | 56       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180   | 30       | 1.721     | ug/l # | 13       |
| 95) Naphthalene               | 15.245 | 128   | 73       | 2.140     | ug/l # | 68       |
| -----                         |        |       |          |           |        |          |

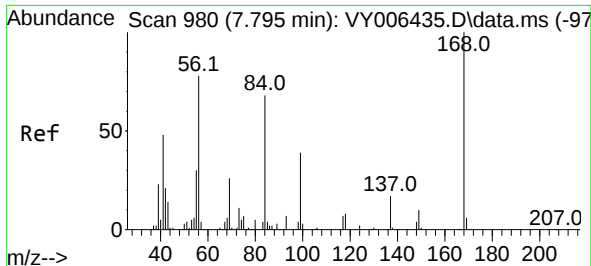
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 14 Sample Multiplier: 1

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Quant Title : SW846 8260  
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Response via : Initial Calibration

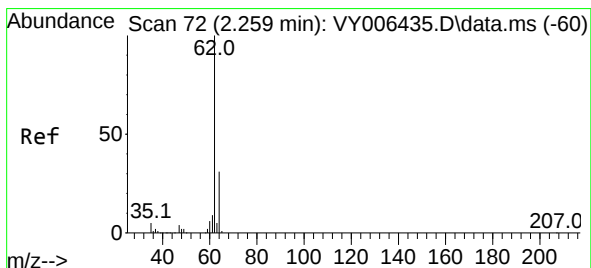
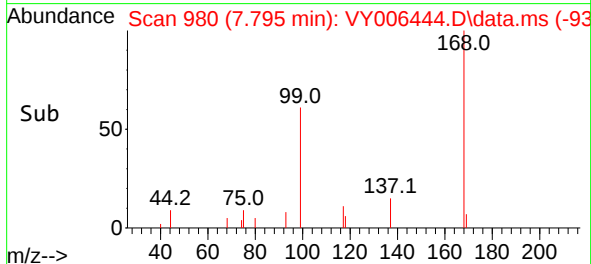
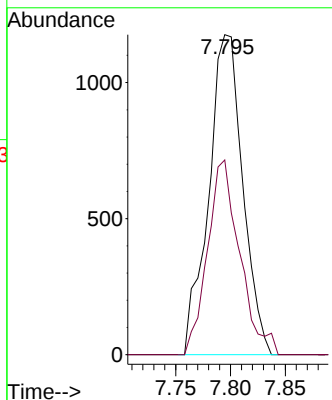
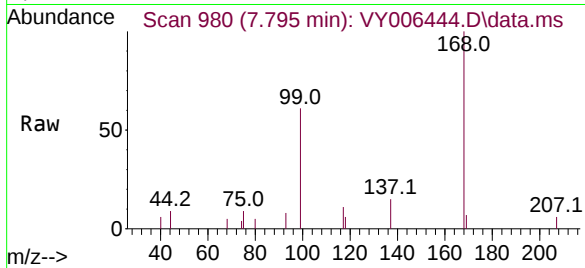




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

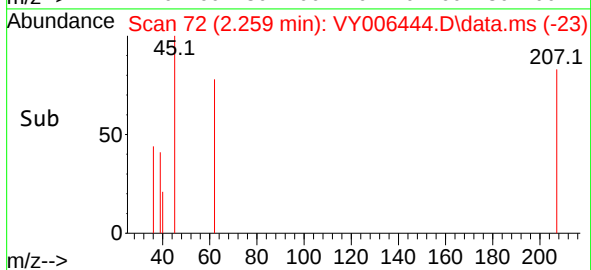
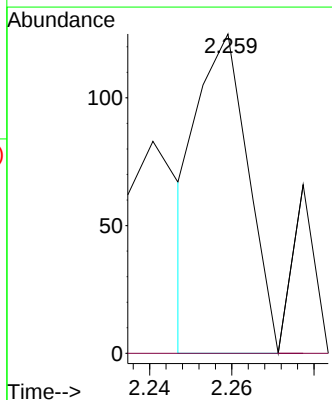
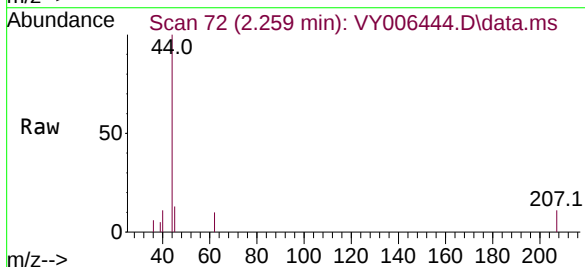
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

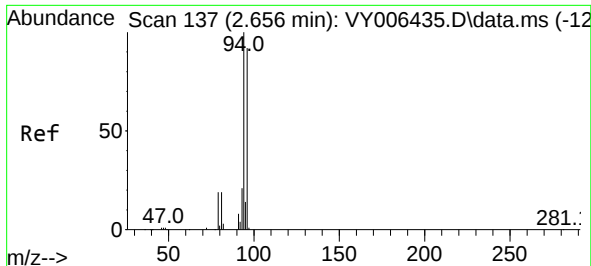
Tgt Ion:168 Resp: 2548  
Ion Ratio Lower Upper  
168 100  
99 60.9 44.8 67.2



#4  
Vinyl Chloride  
Concen: 2.985 ug/l  
RT: 2.259 min Scan# 72  
Delta R.T. -0.000 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion: 62 Resp: 106  
Ion Ratio Lower Upper  
62 100  
64 0.0 24.7 37.1#

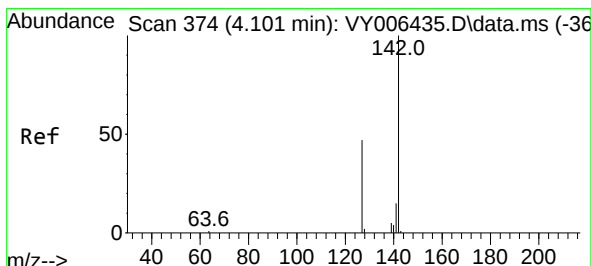
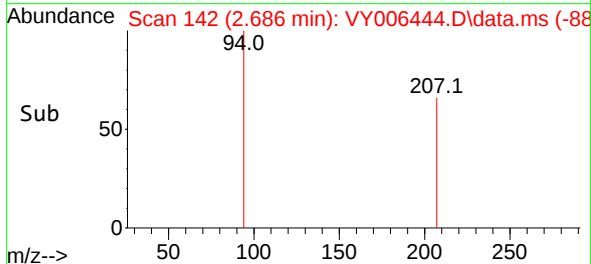
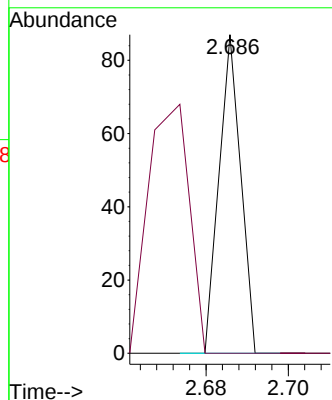
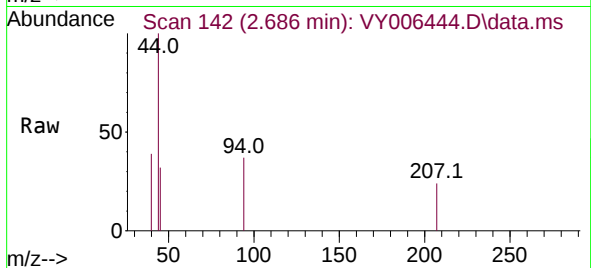




#5  
Bromomethane  
Concen: 1.353 ug/l  
RT: 2.686 min Scan# 14  
Delta R.T. 0.030 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

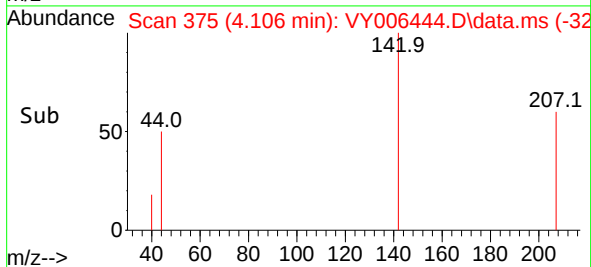
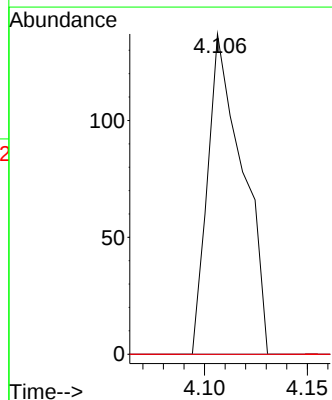
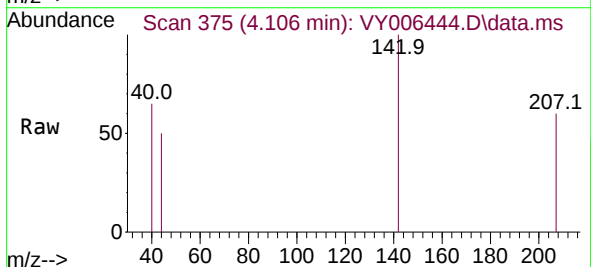
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

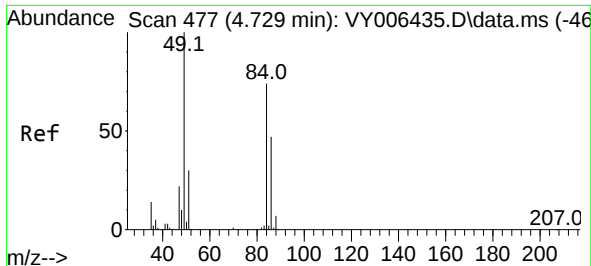
Tgt Ion: 94 Resp: 32  
Ion Ratio Lower Upper  
94 100  
96 0.0 73.5 110.3#



#10  
Methyl Iodide  
Concen: 10.861 ug/l  
RT: 4.106 min Scan# 375  
Delta R.T. 0.005 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

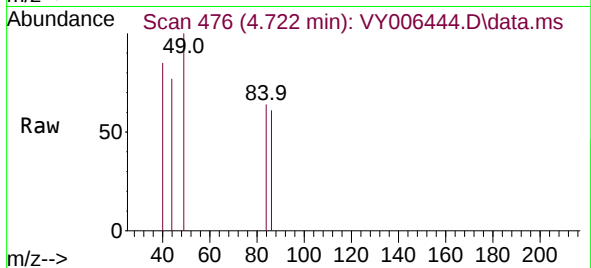
Tgt Ion: 142 Resp: 162  
Ion Ratio Lower Upper  
142 100  
127 0.0 40.1 60.1#  
141 0.0 12.5 18.7#



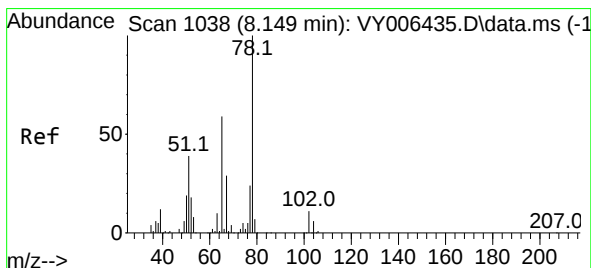
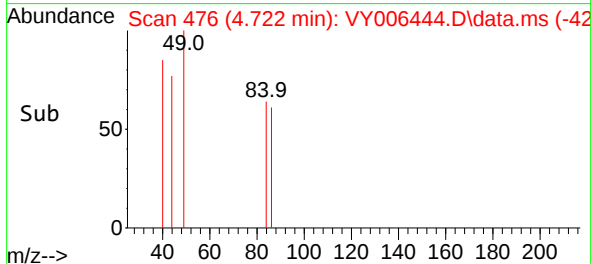
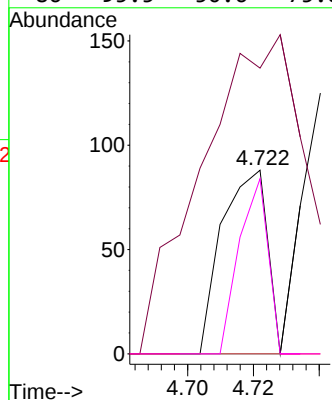


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.722 min Scan# 41  
Delta R.T. -0.007 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

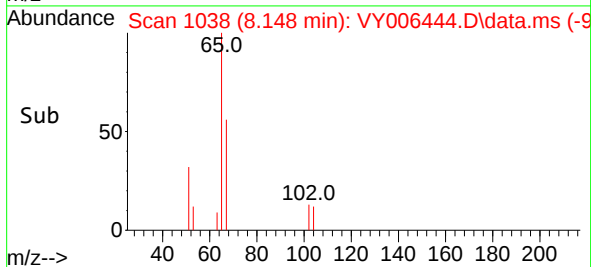
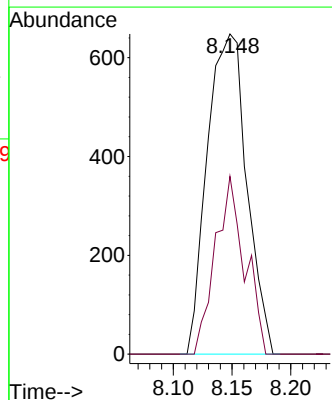
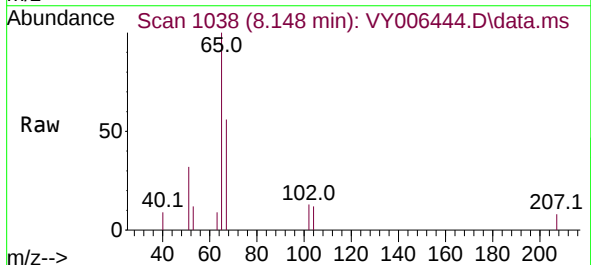


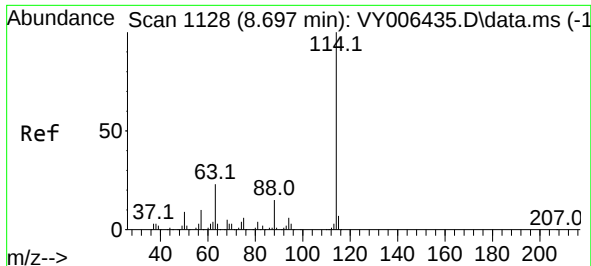
Tgt Ion: 84 Resp: 84  
Ion Ratio Lower Upper  
84 100  
49 90.9 107.8 161.8#  
51 0.0 32.8 49.2#  
86 95.5 50.6 75.8#



#33  
1,2-Dichloroethane-d4  
Concen: 48.414 ug/l  
RT: 8.148 min Scan# 1038  
Delta R.T. -0.000 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion: 65 Resp: 1518  
Ion Ratio Lower Upper  
65 100  
67 41.4 0.0 98.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VY006444.D

Acq: 22 Oct 2021 17:11

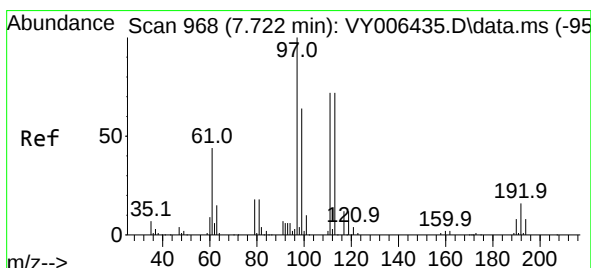
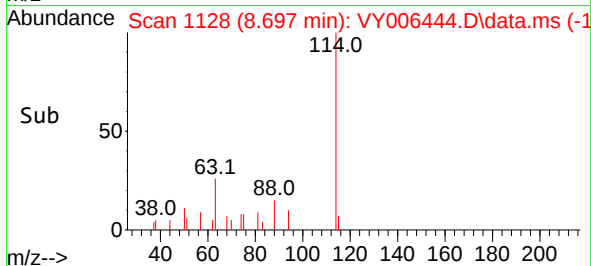
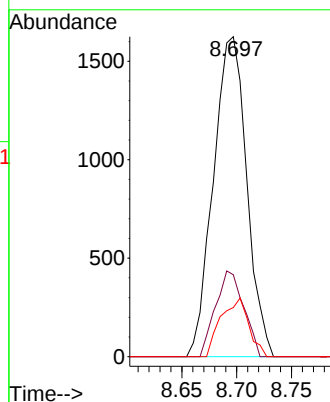
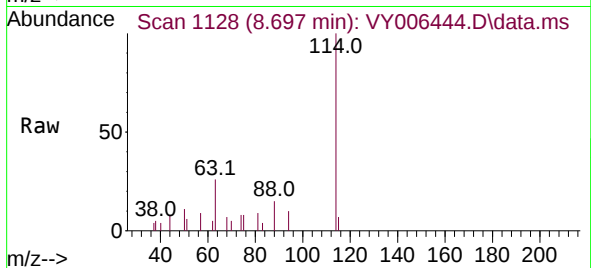
Instrument :

MSVOA\_Y

ClientSampleId :

MH-D-S

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:114 | Resp: | 3438        |
| Ion         | Ratio | Lower Upper |
| 114         | 100   |             |
| 63          | 25.6  | 0.0 45.0    |
| 88          | 15.3  | 0.0 30.6    |



#35

Dibromofluoromethane

Concen: 23.066 ug/l

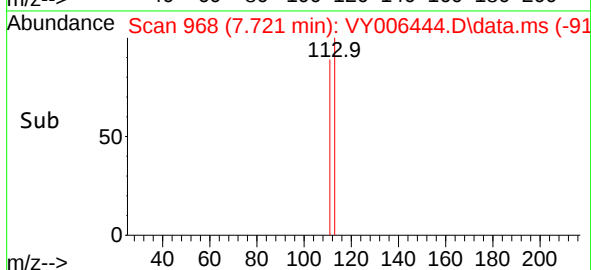
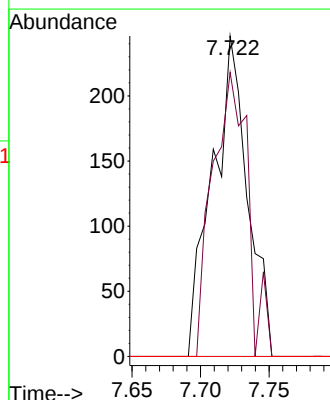
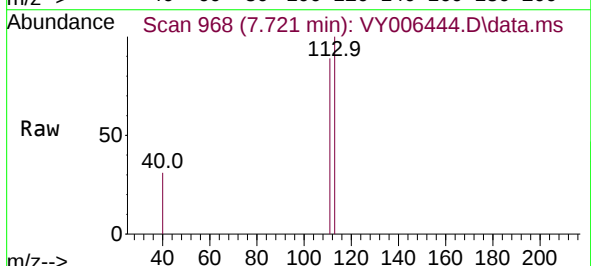
RT: 7.721 min Scan# 968

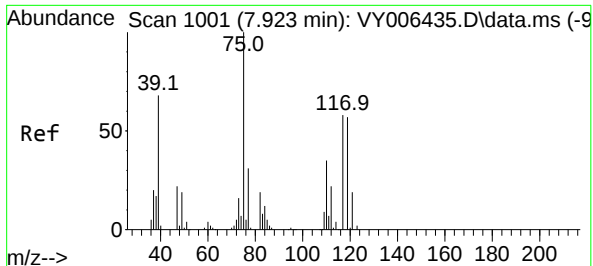
Delta R.T. -0.000 min

Lab File: VY006444.D

Acq: 22 Oct 2021 17:11

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:113 | Resp: | 442         |
| Ion         | Ratio | Lower Upper |
| 113         | 100   |             |
| 111         | 88.2  | 82.3 123.5  |
| 192         | 0.0   | 17.4 26.2#  |

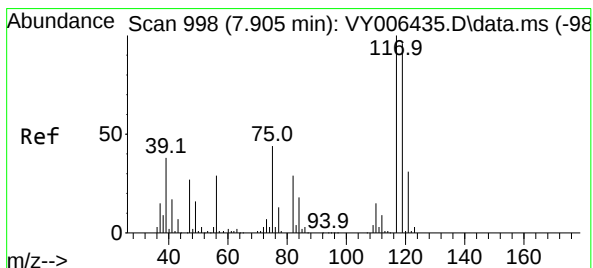
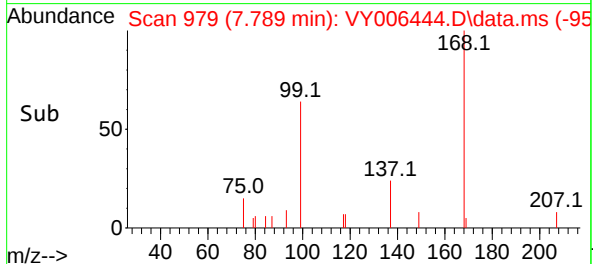
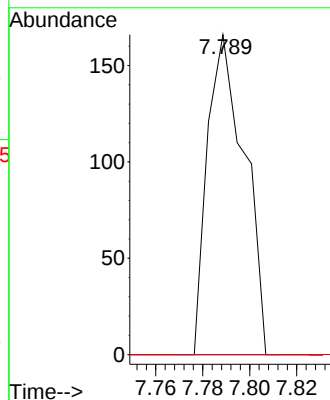
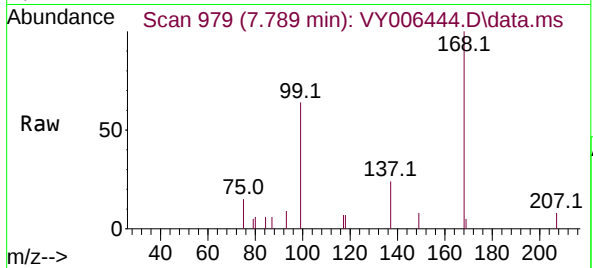




#36  
1,1-Dichloropropene  
Concen: 5.328 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.134 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

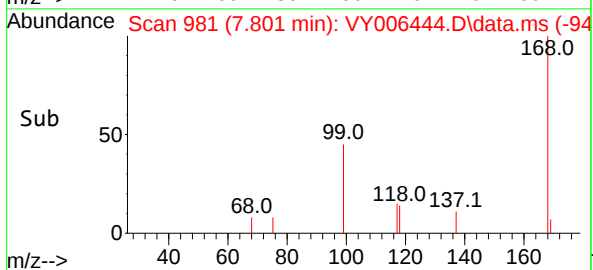
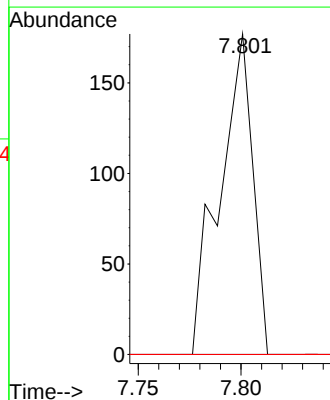
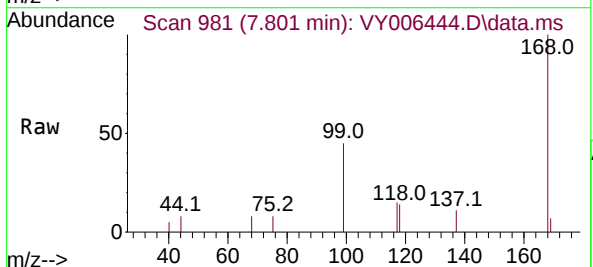
Instrument :  
MSVOA\_Y  
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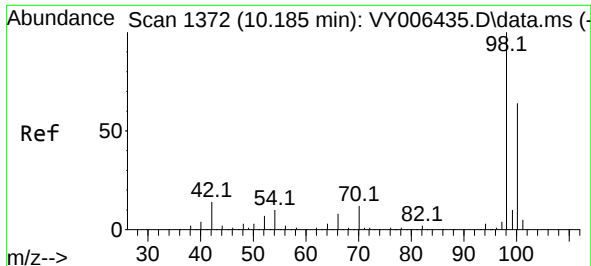
Tgt Ion: 75 Resp: 181  
Ion Ratio Lower Upper  
75 100  
110 0.0 17.1 51.3#  
77 0.0 24.9 37.3#



#38  
Carbon Tetrachloride  
Concen: 5.310 ug/l  
RT: 7.801 min Scan# 981  
Delta R.T. -0.104 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion: 117 Resp: 199  
Ion Ratio Lower Upper  
117 100  
119 0.0 76.6 115.0#  
121 0.0 24.7 37.1#

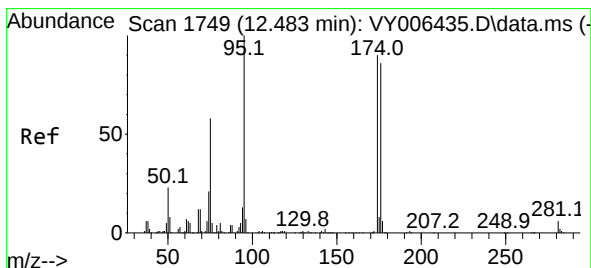
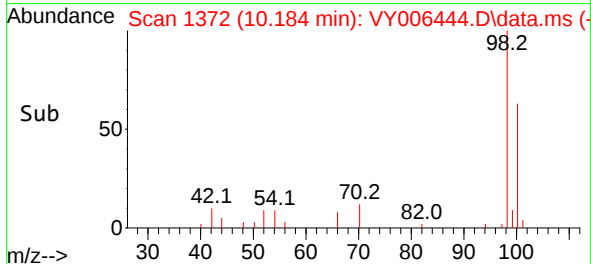
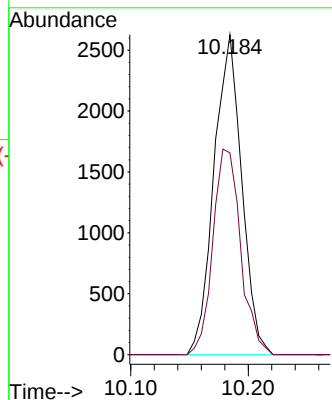
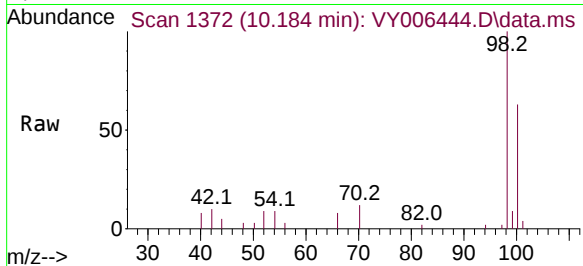




#50  
Toluene-d8  
Concen: 52.971 ug/l  
RT: 10.184 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

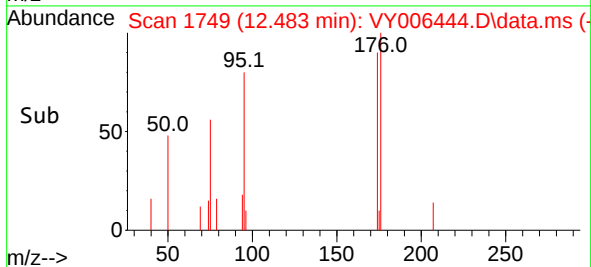
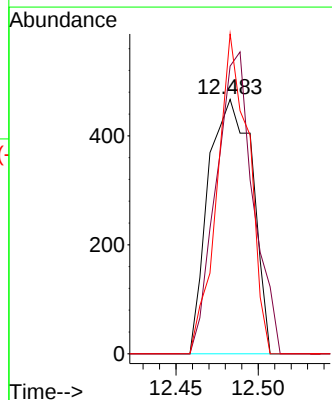
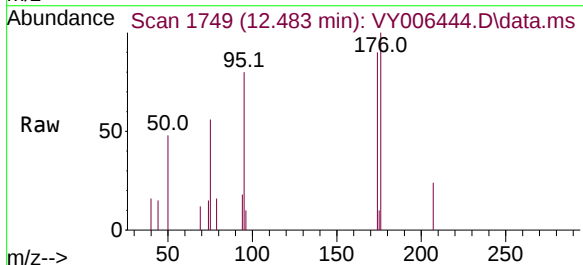
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

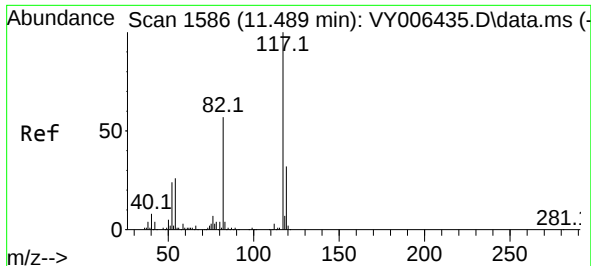
Tgt Ion: 98 Resp: 4303  
Ion Ratio Lower Upper  
98 100  
100 64.4 50.9 76.3



#62  
4-Bromofluorobenzene  
Concen: 31.721 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion: 95 Resp: 868  
Ion Ratio Lower Upper  
95 100  
174 100.0 0.0 177.0  
176 90.4 0.0 169.4

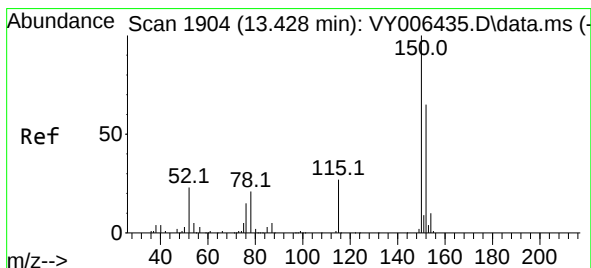
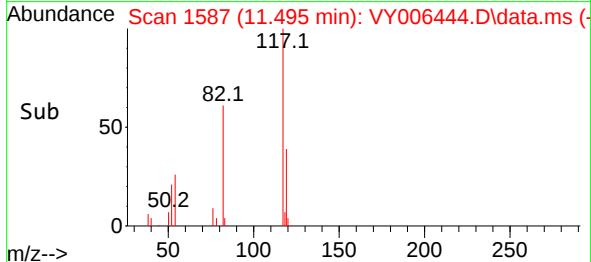
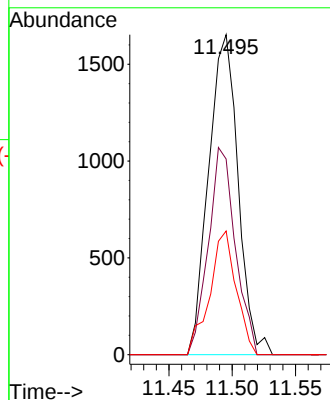
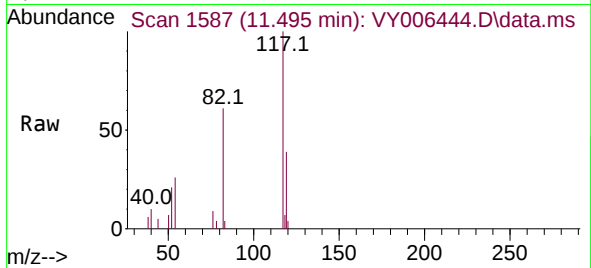




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.495 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

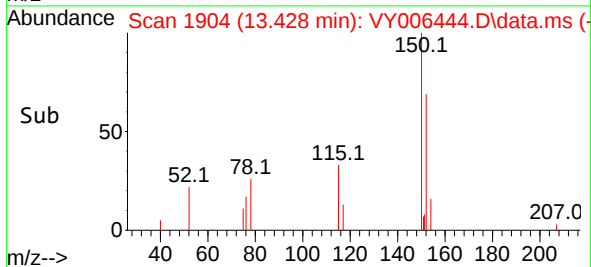
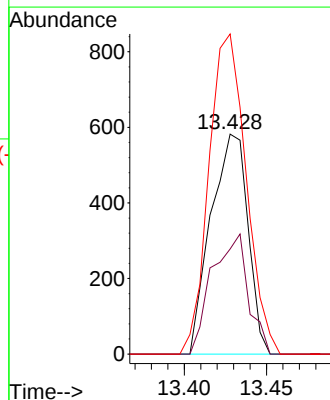
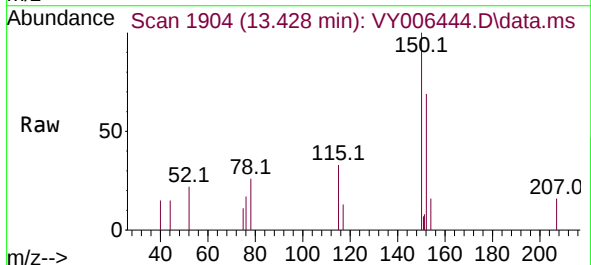
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

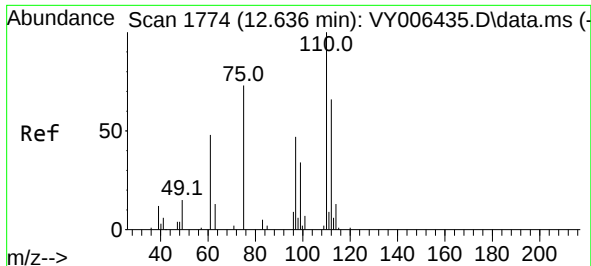
Tgt Ion:117 Resp: 2677  
Ion Ratio Lower Upper  
117 100  
82 61.2 45.7 68.5  
119 38.7 25.5 38.3#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion:152 Resp: 910  
Ion Ratio Lower Upper  
152 100  
115 53.4 28.5 85.5  
150 146.5 0.0 348.2

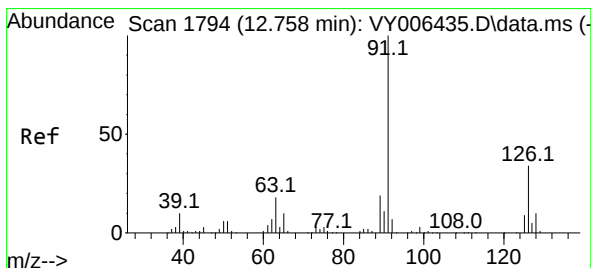
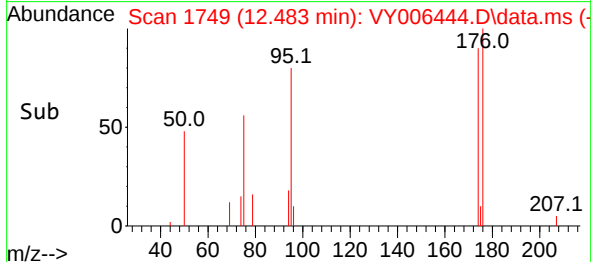
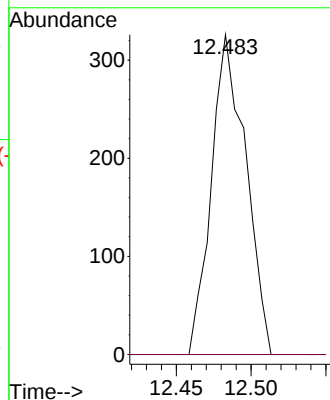
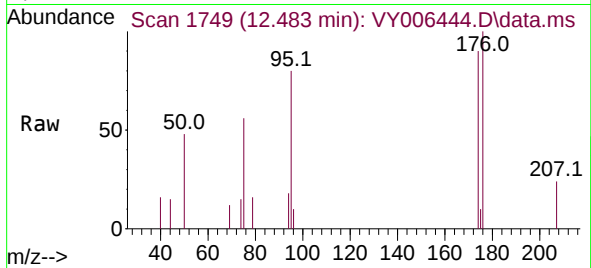




#76  
1,2,3-Trichloropropane  
Concen: 55.453 ug/l  
RT: 12.483 min Scan# 1774  
Delta R.T. -0.153 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

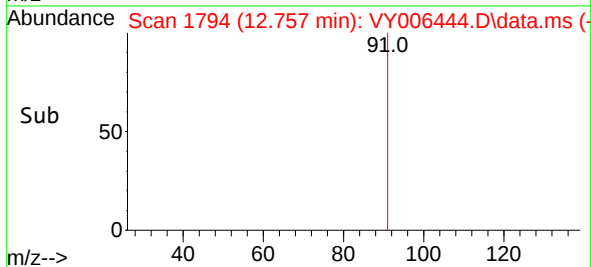
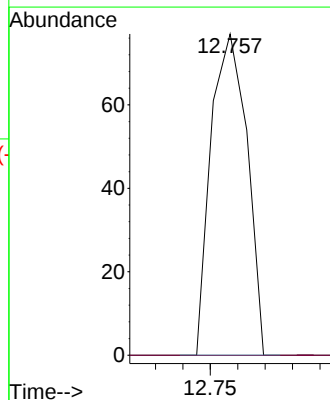
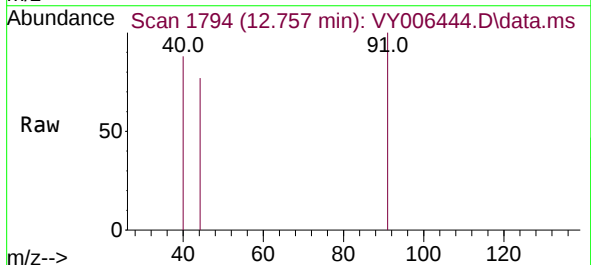
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

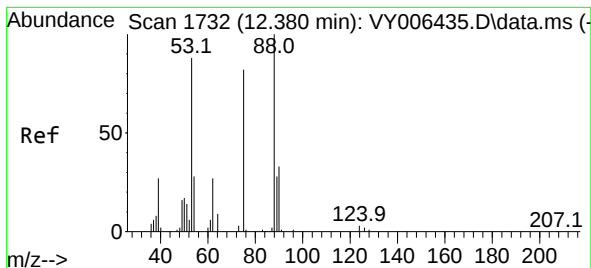
Tgt Ion: 75 Resp: 520  
Ion Ratio Lower Upper  
75 100  
77 0.0 0.0 0.0



#79  
2-Chlorotoluene  
Concen: 1.607 ug/l  
RT: 12.757 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion: 91 Resp: 70  
Ion Ratio Lower Upper  
91 100  
126 0.0 17.1 51.2#

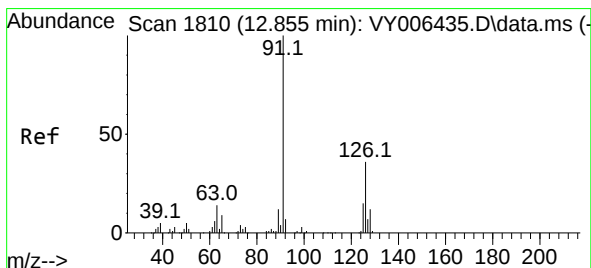
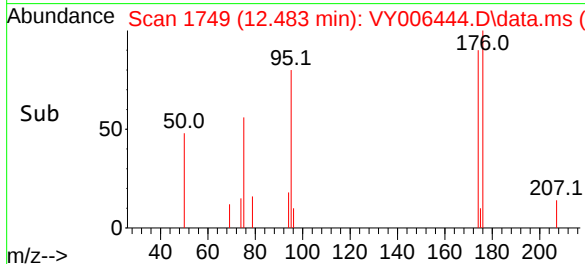
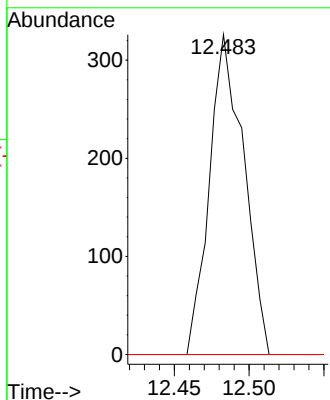
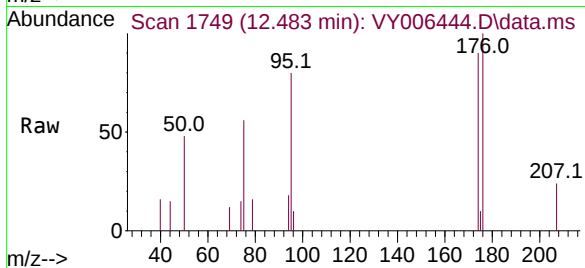




#81  
trans-1,4-Dichloro-2-butene  
Concen: 113.843 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.103 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

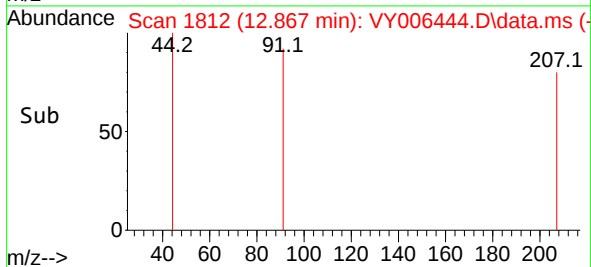
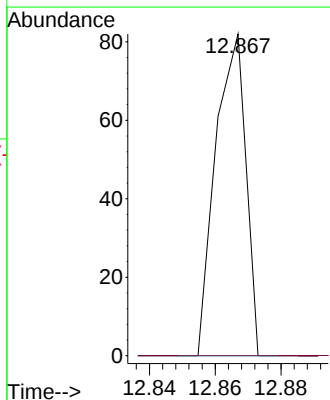
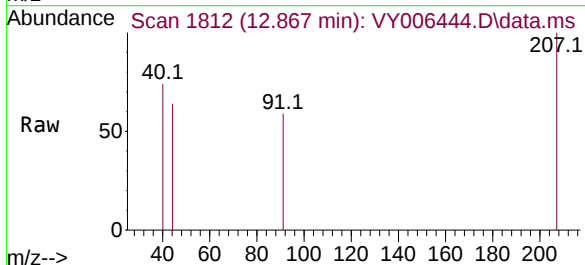
Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

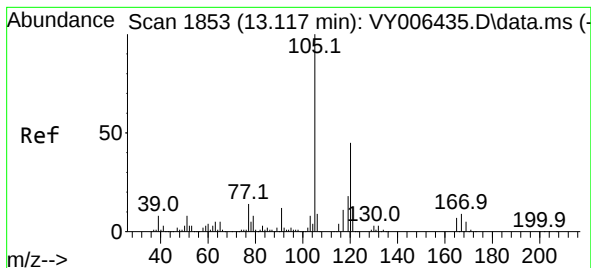
Tgt Ion: 75 Resp: 520  
Ion Ratio Lower Upper  
75 100  
53 0.0 85.8 128.6#  
89 0.0 39.3 58.9#



#82  
4-Chlorotoluene  
Concen: 1.146 ug/l  
RT: 12.867 min Scan# 1812  
Delta R.T. 0.012 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion: 91 Resp: 52  
Ion Ratio Lower Upper  
91 100  
126 0.0 16.8 50.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.389 ug/l

RT: 13.251 min Scan# 1853

Delta R.T. 0.134 min

Lab File: VY006444.D

Acq: 22 Oct 2021 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

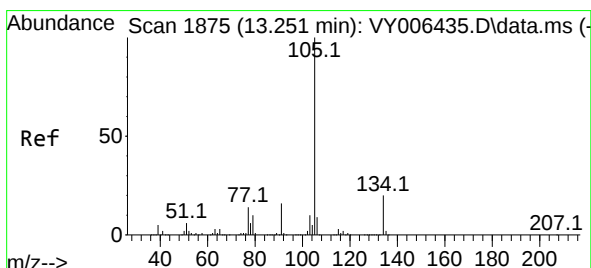
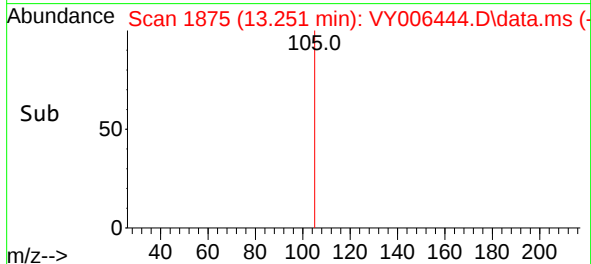
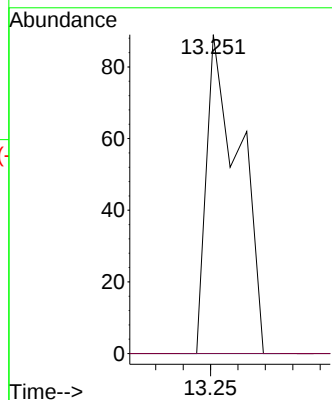
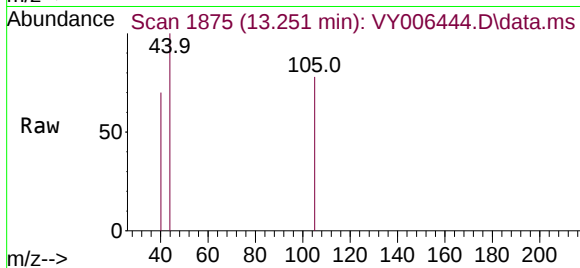
MH-D-S

Tgt Ion:105 Resp: 74

Ion Ratio Lower Upper

105 100

120 0.0 22.6 67.8#



#85

sec-Butylbenzene

Concen: 1.076 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VY006444.D

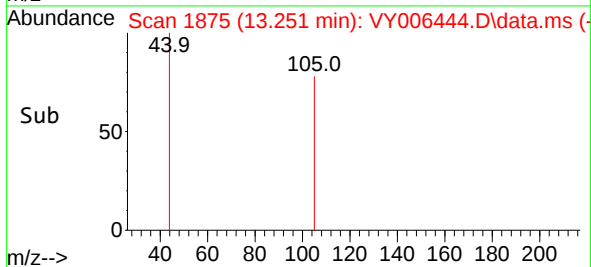
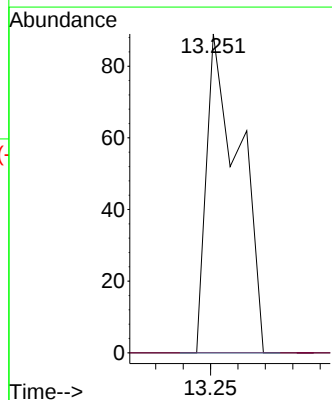
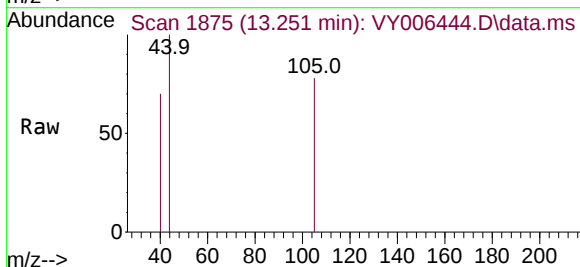
Acq: 22 Oct 2021 17:11

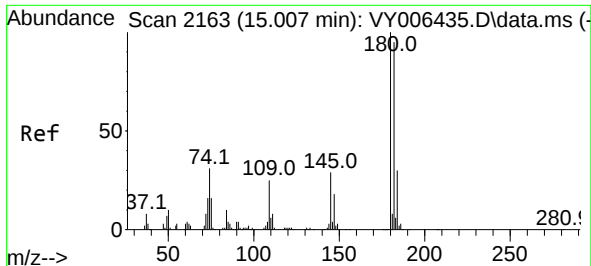
Tgt Ion:105 Resp: 74

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.3#

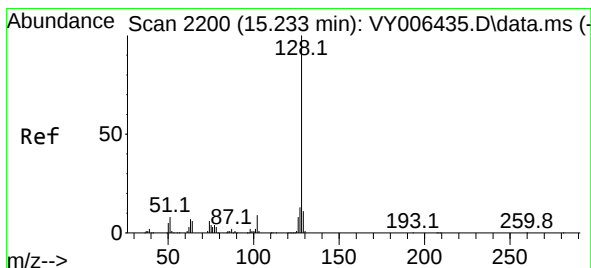
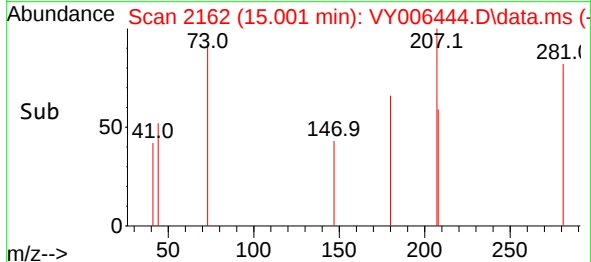
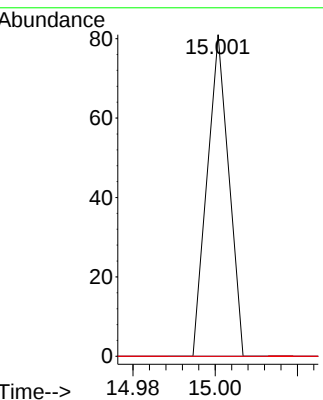
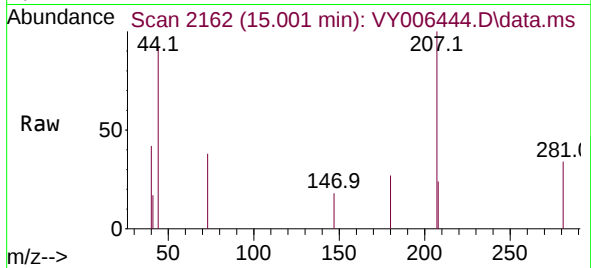




#93  
1,2,4-Trichlorobenzene  
Concen: 1.721 ug/l  
RT: 15.001 min Scan# 2162  
Delta R.T. -0.006 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MH-D-S

Tgt Ion:180 Resp: 30  
Ion Ratio Lower Upper  
180 100  
182 0.0 47.1 141.4#  
145 0.0 14.5 43.6#



#95  
Naphthalene  
Concen: 2.140 ug/l  
RT: 15.245 min Scan# 2202  
Delta R.T. 0.012 min  
Lab File: VY006444.D  
Acq: 22 Oct 2021 17:11

Tgt Ion:128 Resp: 73  
Ion Ratio Lower Upper  
128 100  
127 0.0 11.0 16.4#  
129 0.0 8.9 13.3#

