

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102221\  
 Data File : VY006448.D  
 Acq On : 22 Oct 2021 18:45  
 Operator : SY/MD  
 Sample : M4316-01  
 Misc : 4.77G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 WC-2-IS

Quant Time: Oct 23 07:24:20 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

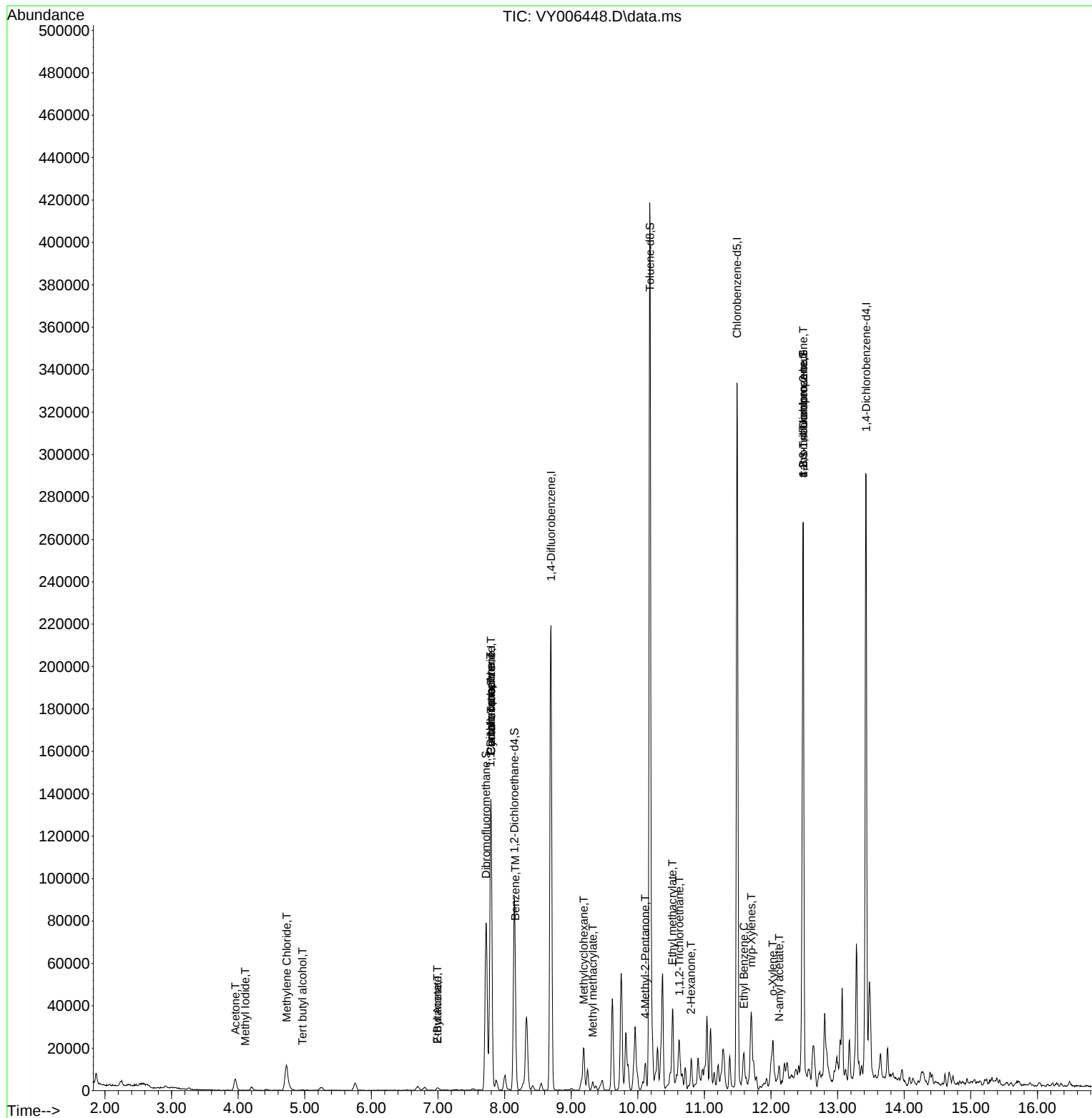
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.795  | 168   | 101908   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.697  | 114   | 178203   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 163414   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 70518    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.149  | 65    | 71595    | 57.091   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 114.180% |          |
| 35) Dibromofluoromethane      | 7.722  | 113   | 52115    | 52.469   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 104.940% |          |
| 50) Toluene-d8                | 10.185 | 98    | 232287   | 55.168   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery | = 110.340% |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 70022    | 49.368   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery | = 98.740%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 10) Methyl Iodide             | 4.107  | 142   | 83       | 5.134    | ug/l #     | 73       |
| 11) Tert butyl alcohol        | 4.966  | 59    | 492      | 4.319    | ug/l #     | 72       |
| 16) Acetone                   | 3.960  | 43    | 9720     | 26.918   | ug/l       | 96       |
| 20) Methylene Chloride        | 4.728  | 84    | 7814     | 3.200    | ug/l       | 99       |
| 25) 2-Butanone                | 6.990  | 43    | 1703     | 3.600    | ug/l       | 95       |
| 31) Cyclohexane               | 7.795  | 56    | 4398     | 2.166    | ug/l #     | 66       |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 8361     | 4.748    | ug/l #     | 51       |
| 37) Ethyl Acetate             | 6.990  | 43    | 1703     | 1.528    | ug/l #     | 72       |
| 38) Carbon Tetrachloride      | 7.795  | 117   | 10105    | 5.202    | ug/l #     | 16       |
| 39) Methylcyclohexane         | 9.191  | 83    | 5181     | 2.417    | ug/l       | 95       |
| 40) Benzene                   | 8.161  | 78    | 5814     | 1.158    | ug/l       | 93       |
| 48) Methyl methacrylate       | 9.325  | 41    | 1241     | 1.239    | ug/l #     | 37       |
| 51) 4-Methyl-2-Pentanone      | 10.112 | 43    | 1337     | 1.180    | ug/l #     | 87       |
| 55) 1,1,2-Trichloroethane     | 10.624 | 97    | 7390     | 7.828    | ug/l #     | 22       |
| 56) Ethyl methacrylate        | 10.520 | 69    | 4000     | 2.743    | ug/l #     | 1        |
| 59) 2-Hexanone                | 10.801 | 43    | 6386     | 7.786    | ug/l #     | 31       |
| 67) Ethyl Benzene             | 11.593 | 91    | 7560     | 1.248    | ug/l       | 99       |
| 68) m/p-Xylenes               | 11.703 | 106   | 7810     | 3.428    | ug/l       | 97       |
| 69) o-Xylene                  | 12.026 | 106   | 4003     | 1.841    | ug/l       | 100      |
| 74) N-amyl acetate            | 12.123 | 43    | 3021     | 1.846    | ug/l #     | 55       |
| 76) 1,2,3-Trichloropropane    | 12.483 | 75    | 42293    | 58.201   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.483 | 75    | 42293    | 119.485  | ug/l #     | 8        |
| -----                         |        |       |          |          |            |          |

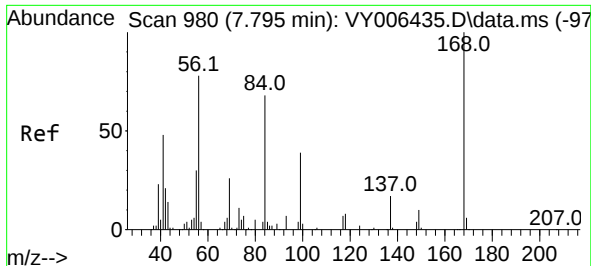
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102221\  
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Sample : M4316-01  
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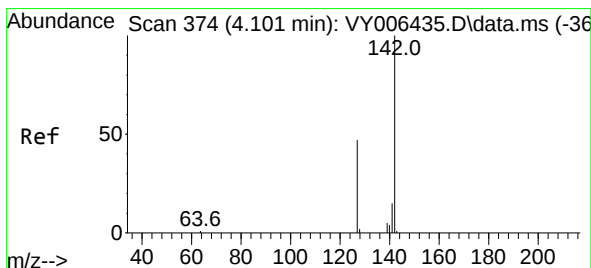
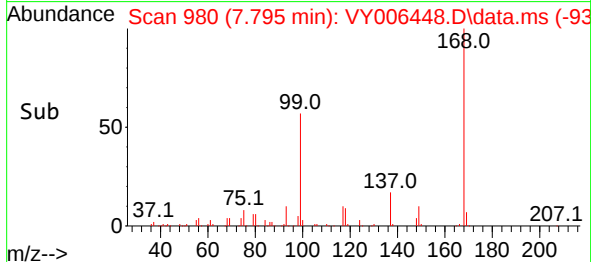
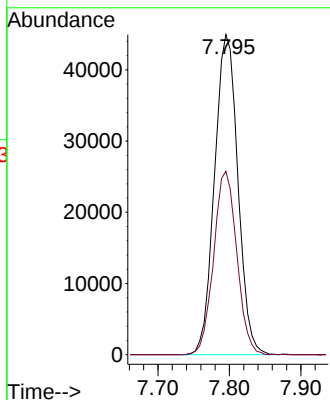
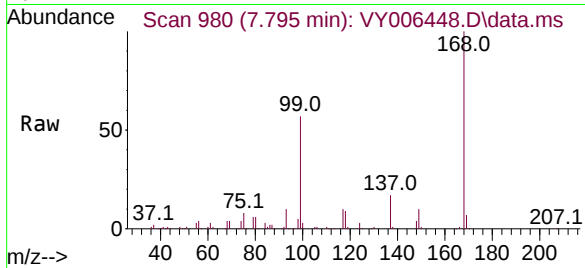




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

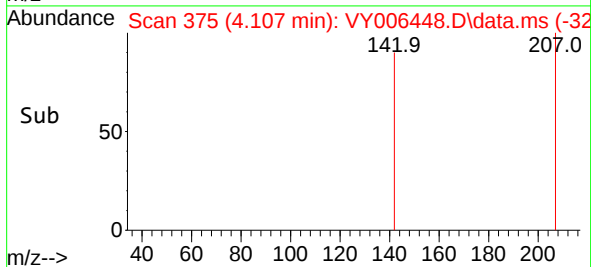
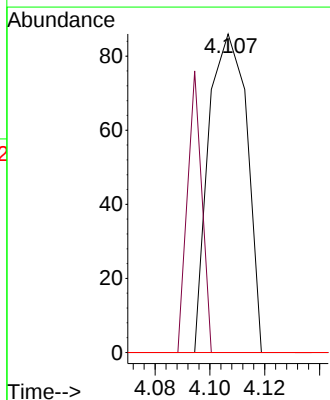
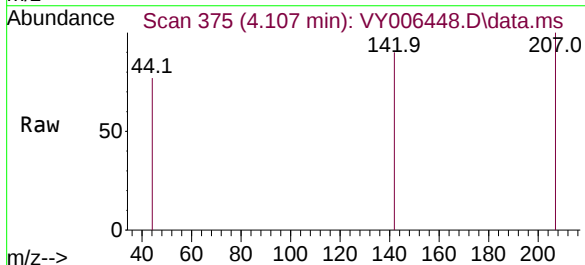
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-2-IS

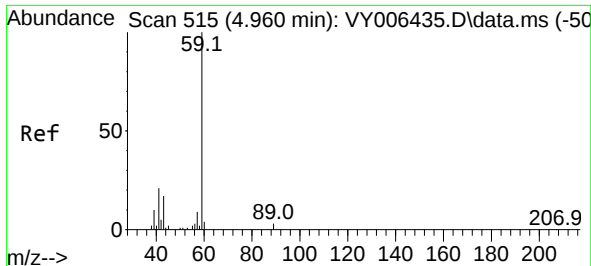
Tgt Ion:168 Resp: 101908  
Ion Ratio Lower Upper  
168 100  
99 57.3 44.8 67.2



#10  
Methyl Iodide  
Concen: 5.134 ug/l  
RT: 4.107 min Scan# 375  
Delta R.T. 0.006 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion:142 Resp: 83  
Ion Ratio Lower Upper  
142 100  
127 33.7 40.1 60.1#  
141 0.0 12.5 18.7#





#11

Tert butyl alcohol

Concen: 4.319 ug/l

RT: 4.966 min Scan# 515

Delta R.T. 0.006 min

Lab File: VY006448.D

Acq: 22 Oct 2021 18:45

Instrument :

MSVOA\_Y

ClientSampleId :

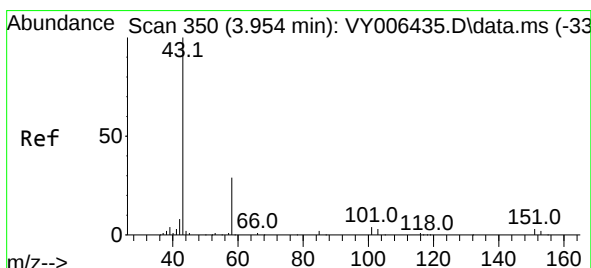
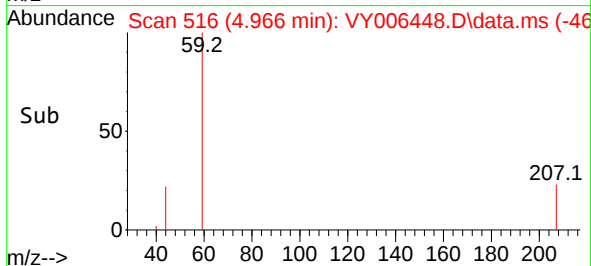
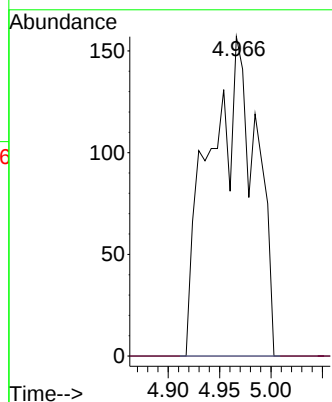
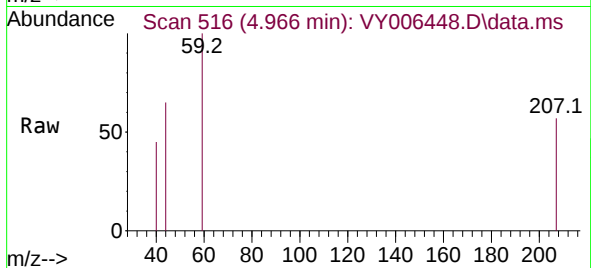
WC-2-IS

Tgt Ion: 59 Resp: 492

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 26.918 ug/l

RT: 3.960 min Scan# 351

Delta R.T. 0.006 min

Lab File: VY006448.D

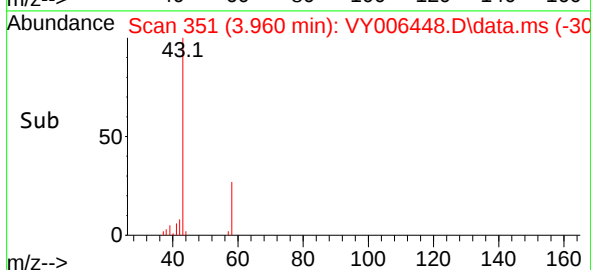
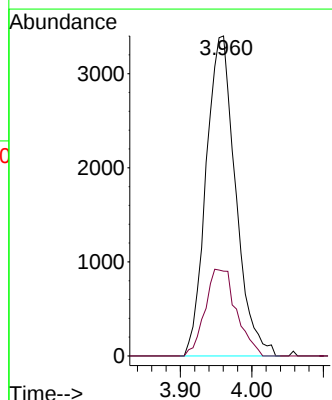
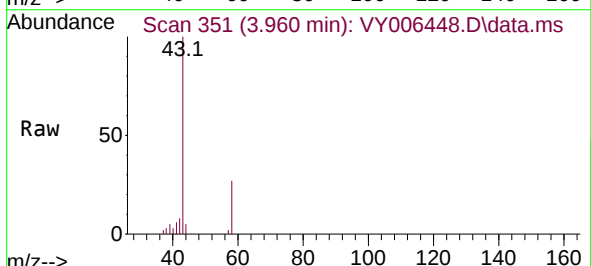
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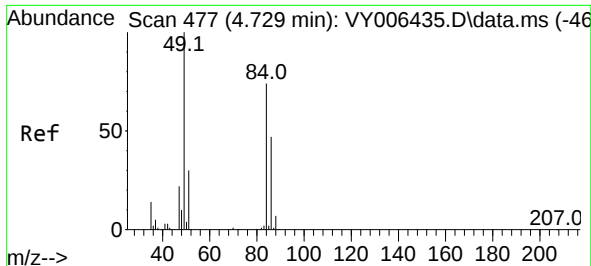
Tgt Ion: 43 Resp: 9720

Ion Ratio Lower Upper

43 100

58 26.5 22.9 34.3

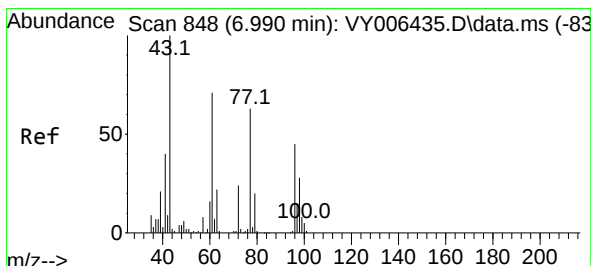
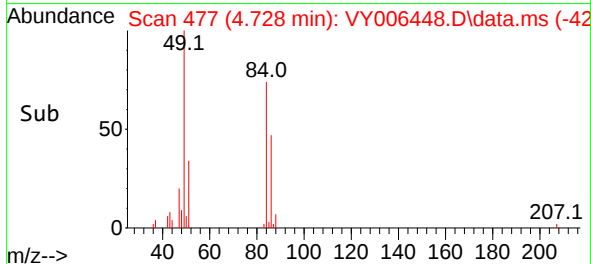
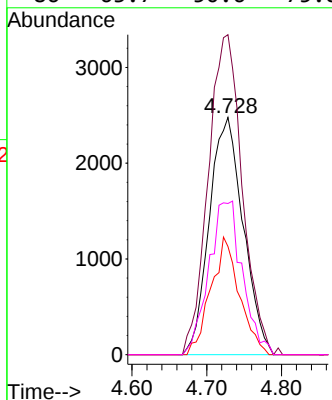
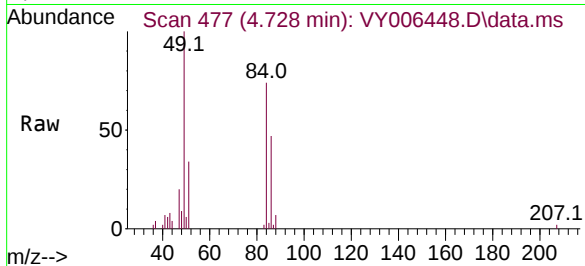




#20  
Methylene Chloride  
Concen: 3.200 ug/l  
RT: 4.728 min Scan# 41  
Delta R.T. -0.001 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

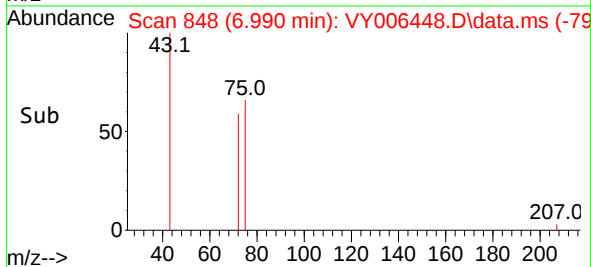
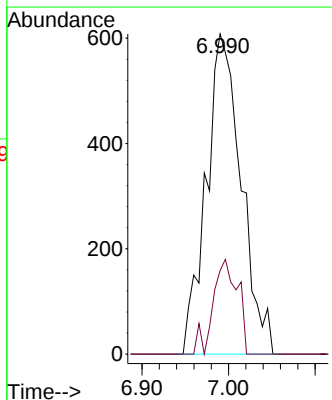
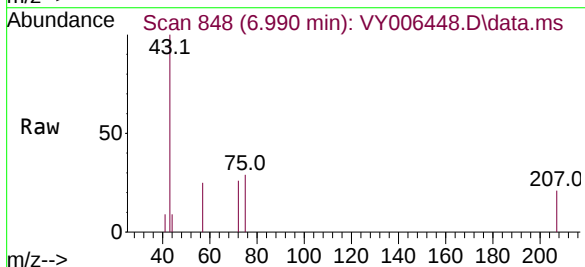
Instrument :  
MSVOA\_Y  
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WC-2-IS

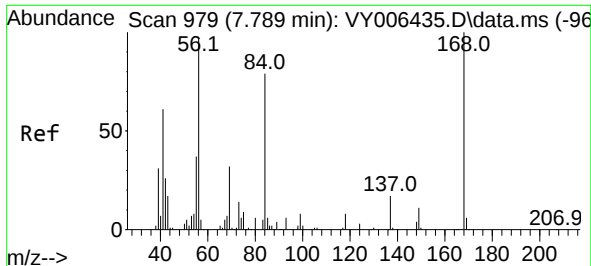
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7814  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 134.9 | 107.8 | 161.8 |
| 51       | 45.6  | 32.8  | 49.2  |
| 86       | 63.7  | 50.6  | 75.8  |



#25  
2-Butanone  
Concen: 3.600 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1703  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 26.2  | 18.9  | 28.3  |

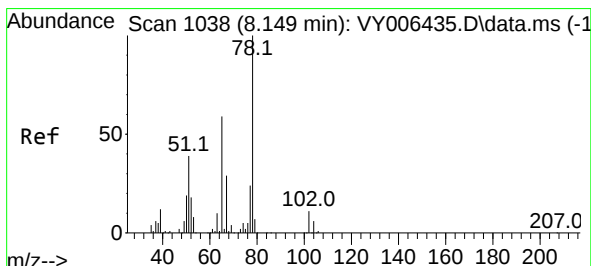
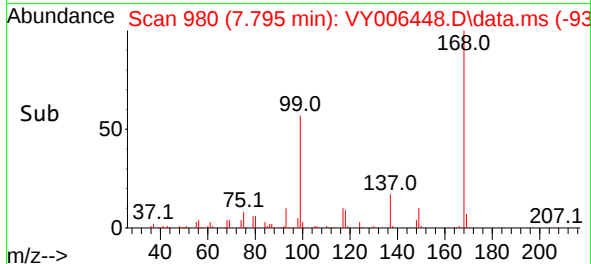
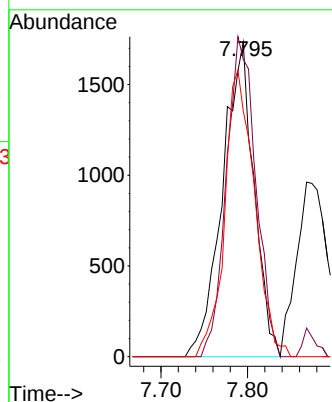
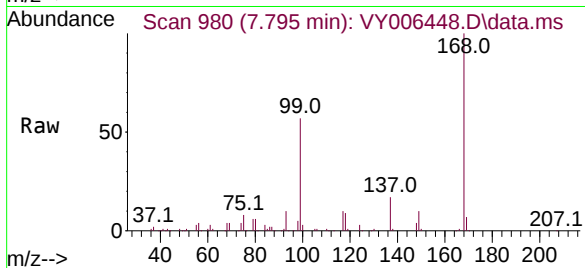




#31  
Cyclohexane  
Concen: 2.166 ug/l  
RT: 7.795 min Scan# 979  
Delta R.T. 0.006 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

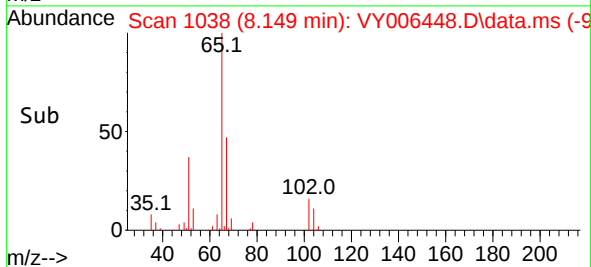
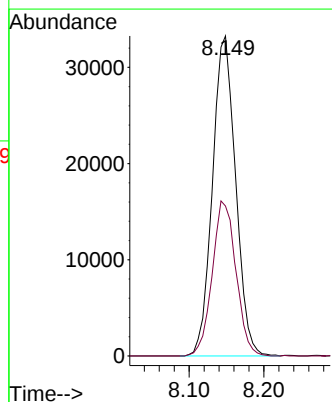
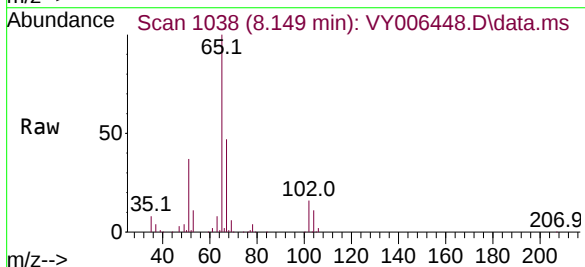
Instrument :  
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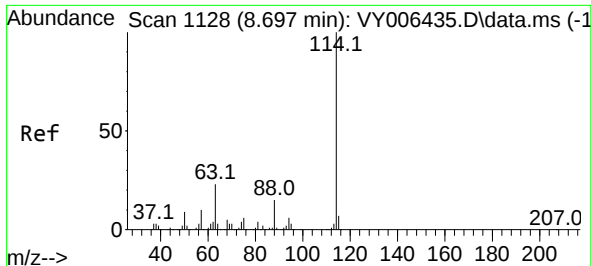
Tgt Ion: 56 Resp: 4398  
Ion Ratio Lower Upper  
56 100  
69 94.6 26.6 40.0#  
84 78.2 65.0 97.4



#33  
1,2-Dichloroethane-d4  
Concen: 57.091 ug/l  
RT: 8.149 min Scan# 1038  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 65 Resp: 71595  
Ion Ratio Lower Upper  
65 100  
67 49.6 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: VY006448.D

Acq: 22 Oct 2021 18:45

Instrument :

MSVOA\_Y

ClientSampleId :

WC-2-IS

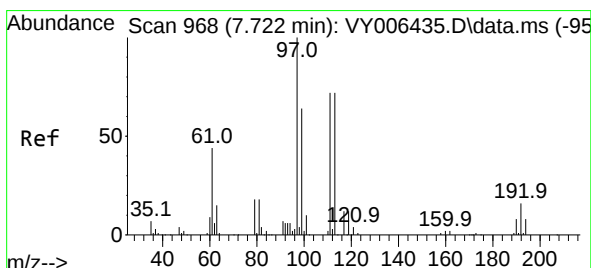
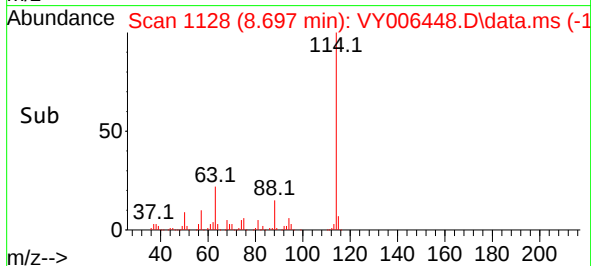
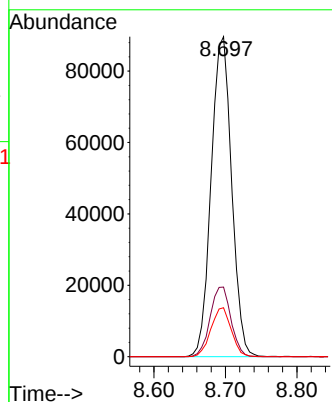
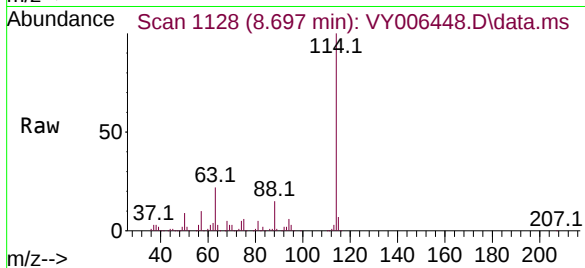
Tgt Ion:114 Resp: 178203

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.0

88 15.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.469 ug/l

RT: 7.722 min Scan# 968

Delta R.T. -0.000 min

Lab File: VY006448.D

Acq: 22 Oct 2021 18:45

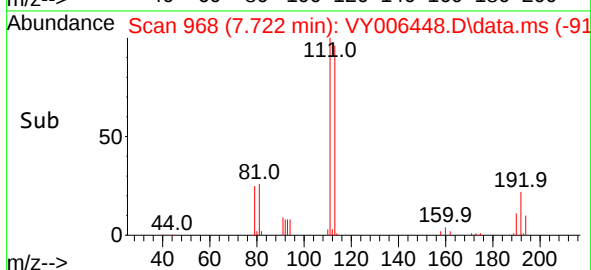
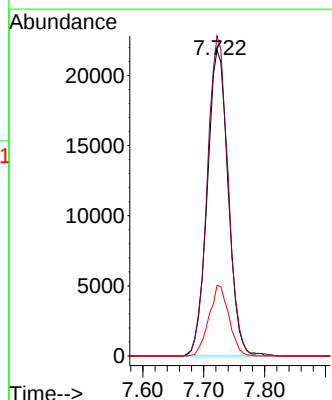
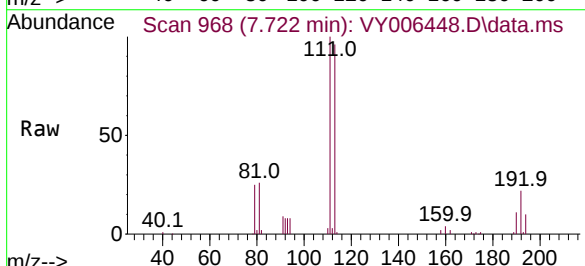
Tgt Ion:113 Resp: 52115

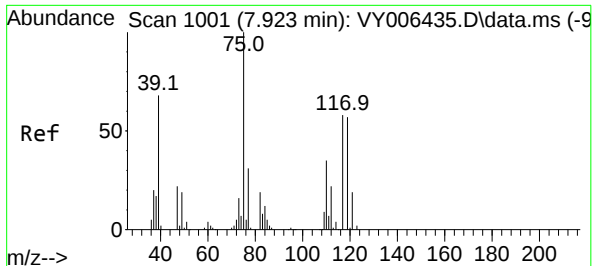
Ion Ratio Lower Upper

113 100

111 103.1 82.3 123.5

192 22.0 17.4 26.2

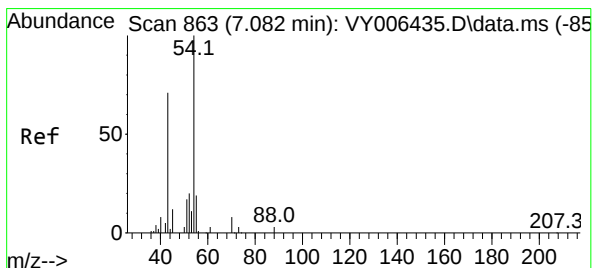
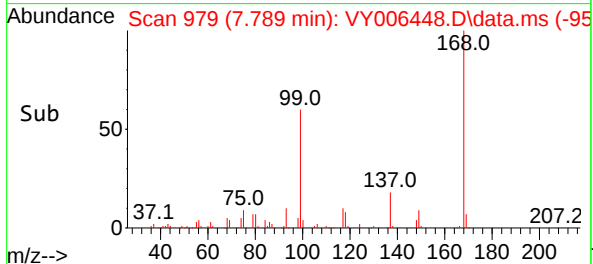
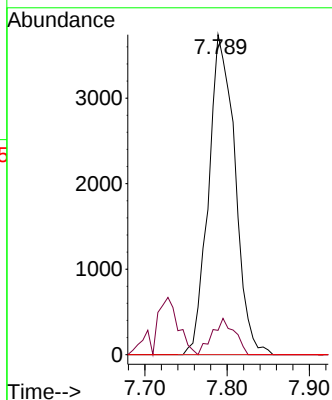
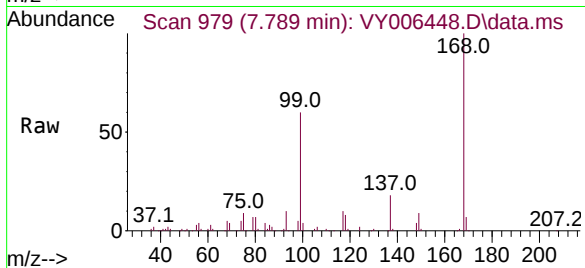




#36  
1,1-Dichloropropene  
Concen: 4.748 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. -0.134 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

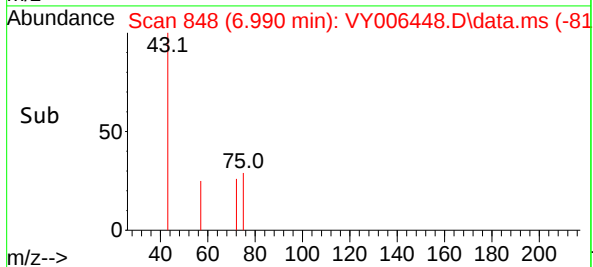
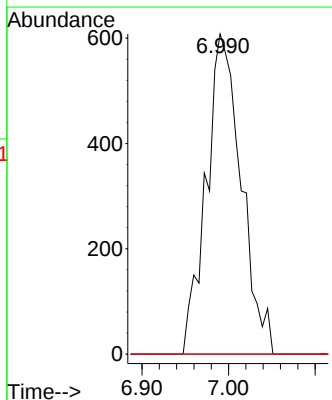
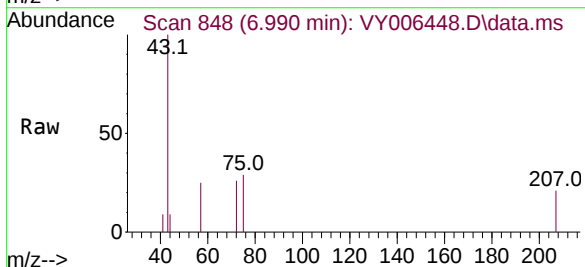
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-2-IS

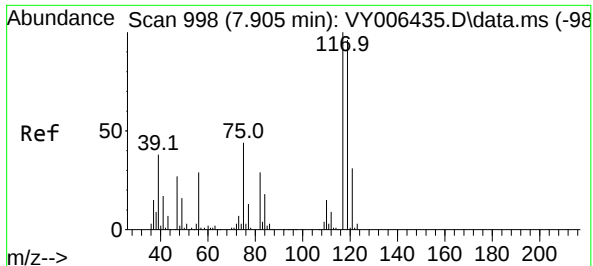
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Ion Ratio Lower Upper  
75 100  
110 9.6 17.1 51.3#  
77 0.0 24.9 37.3#



#37  
Ethyl Acetate  
Concen: 1.528 ug/l  
RT: 6.990 min Scan# 848  
Delta R.T. -0.091 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 43 Resp: 1703  
Ion Ratio Lower Upper  
43 100  
61 0.0 9.4 14.2#  
70 0.0 6.9 10.3#

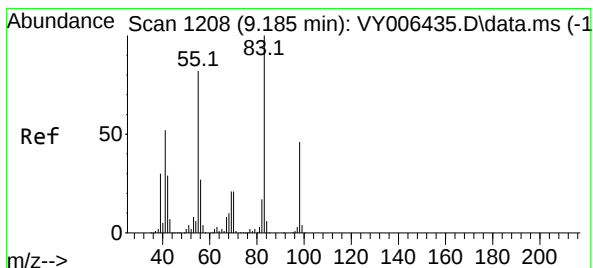
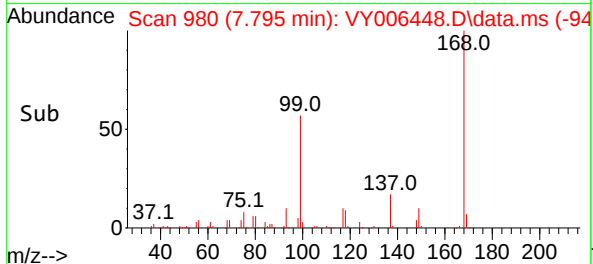
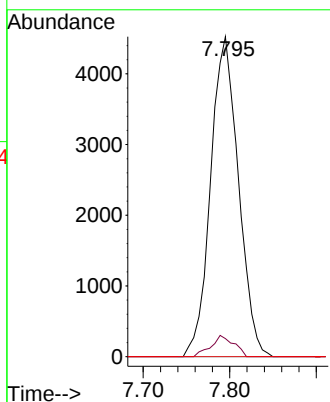
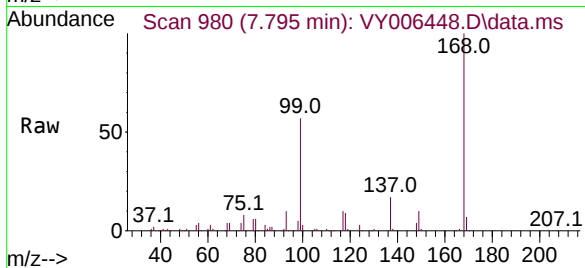




#38  
Carbon Tetrachloride  
Concen: 5.202 ug/l  
RT: 7.795 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

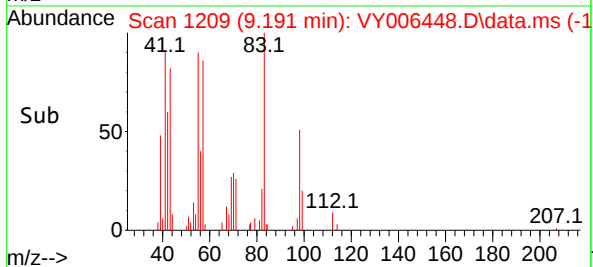
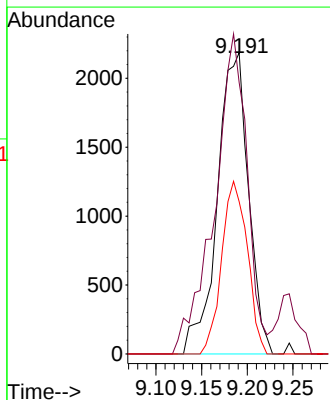
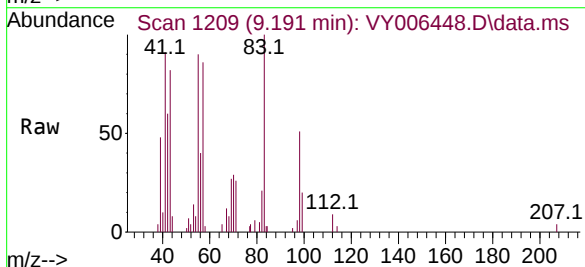
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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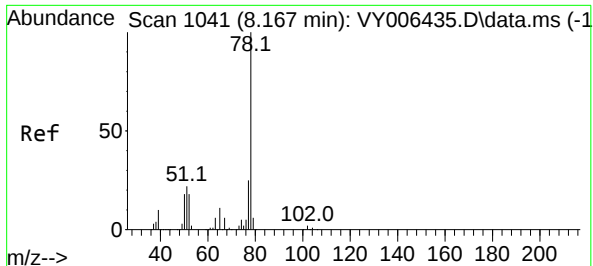
Tgt Ion:117 Resp: 10105  
Ion Ratio Lower Upper  
117 100  
119 5.6 76.6 115.0#  
121 0.0 24.7 37.1#



#39  
Methylcyclohexane  
Concen: 2.417 ug/l  
RT: 9.191 min Scan# 1209  
Delta R.T. 0.006 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 83 Resp: 5181  
Ion Ratio Lower Upper  
83 100  
55 85.5 65.3 97.9  
98 50.5 37.0 55.4

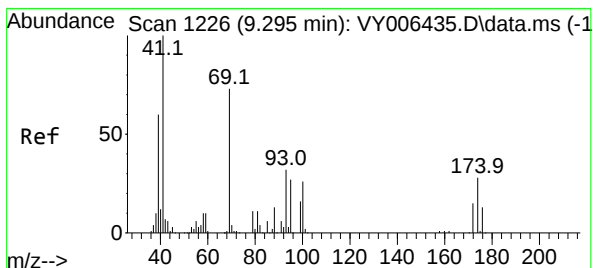
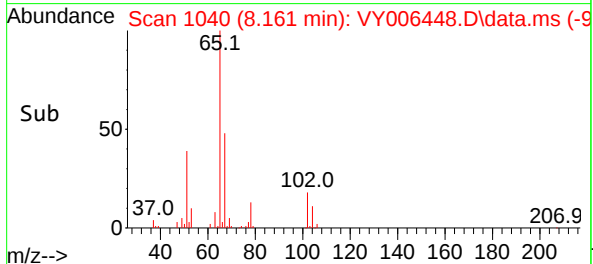
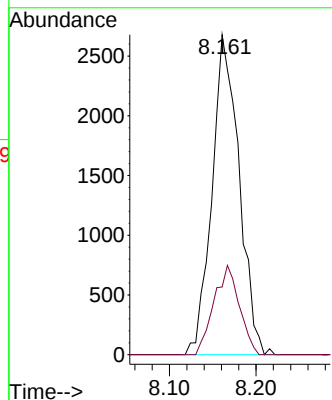
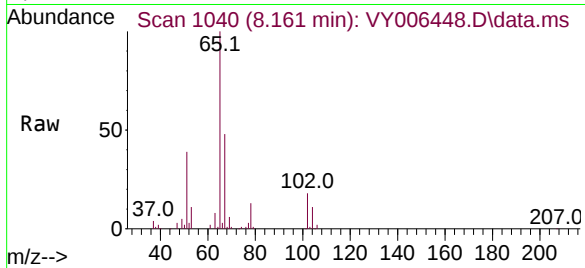




#40  
Benzene  
Concen: 1.158 ug/l  
RT: 8.161 min Scan# 110  
Delta R.T. -0.006 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

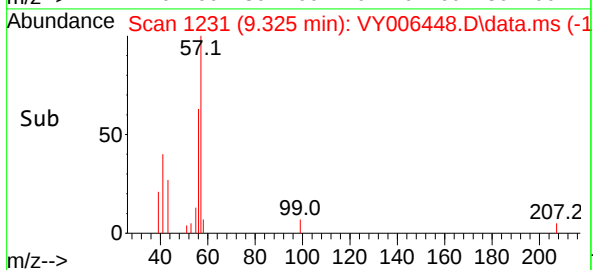
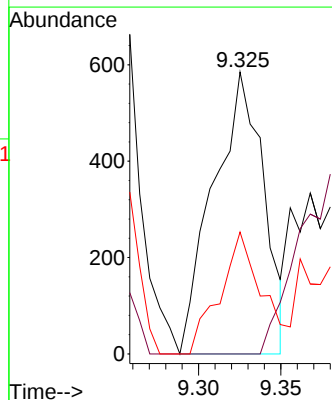
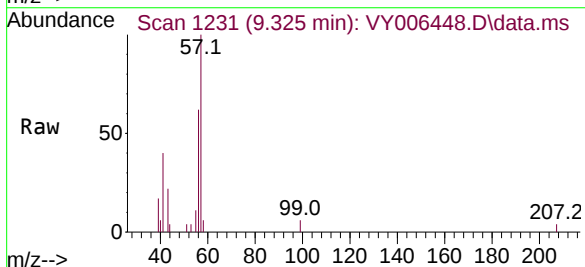
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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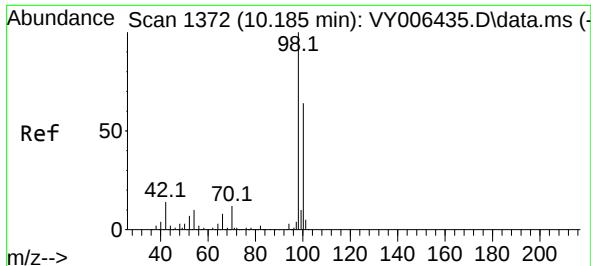
Tgt Ion: 78 Resp: 5814  
Ion Ratio Lower Upper  
78 100  
77 21.2 19.7 29.5



#48  
Methyl methacrylate  
Concen: 1.239 ug/l  
RT: 9.325 min Scan# 1231  
Delta R.T. 0.030 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 41 Resp: 1241  
Ion Ratio Lower Upper  
41 100  
69 0.0 60.4 90.6#  
39 37.1 48.2 72.2#

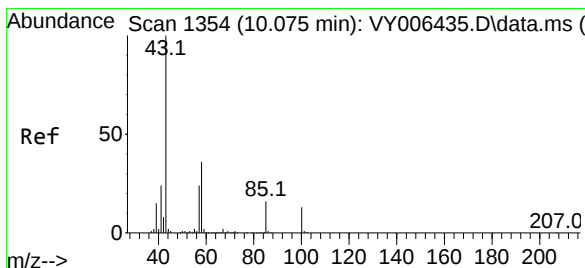
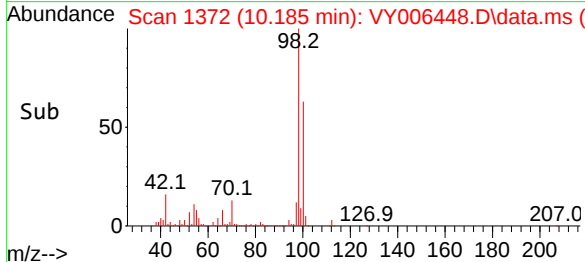
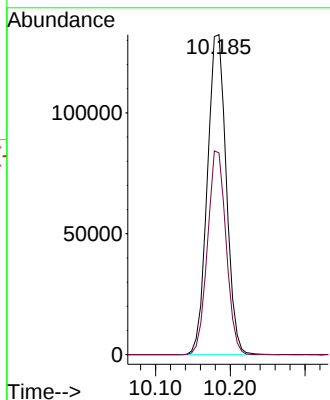
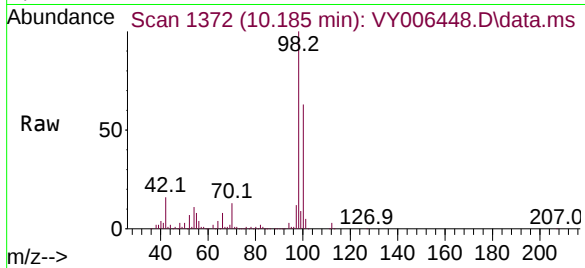




#50  
Toluene-d8  
Concen: 55.168 ug/l  
RT: 10.185 min Scan# 1372  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

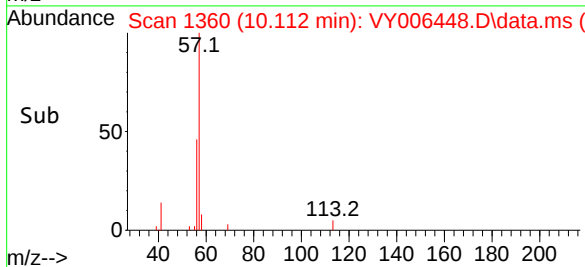
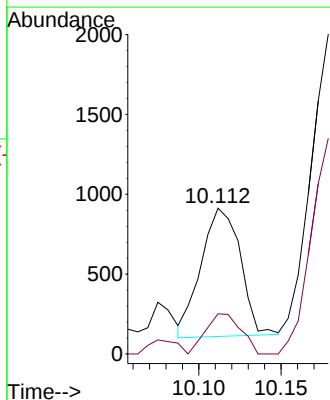
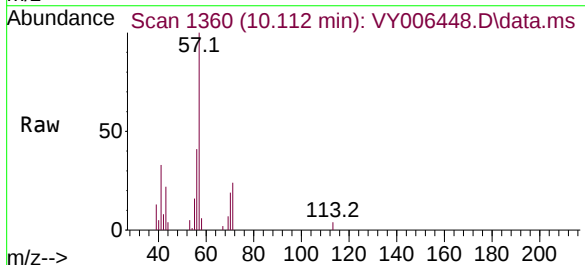
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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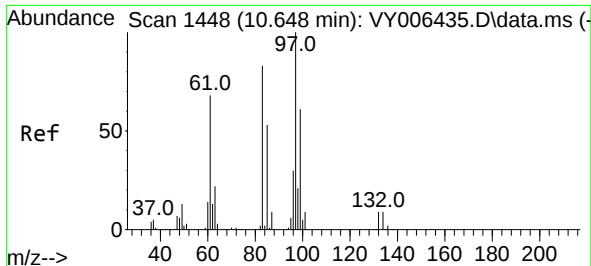
Tgt Ion: 98 Resp: 232287  
Ion Ratio Lower Upper  
98 100  
100 62.6 50.9 76.3



#51  
4-Methyl-2-Pentanone  
Concen: 1.180 ug/l  
RT: 10.112 min Scan# 1360  
Delta R.T. 0.037 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 43 Resp: 1337  
Ion Ratio Lower Upper  
43 100  
58 28.0 28.7 43.1#

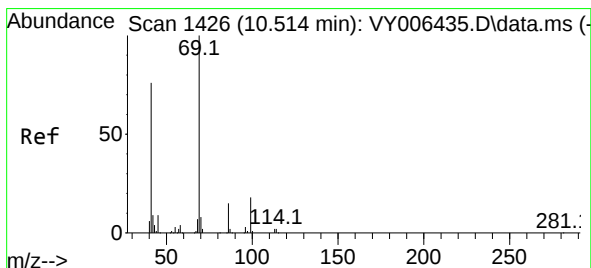
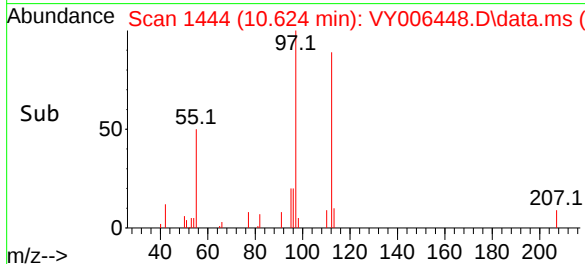
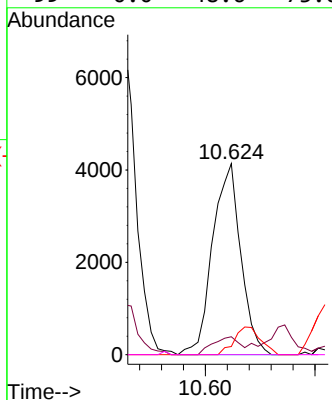
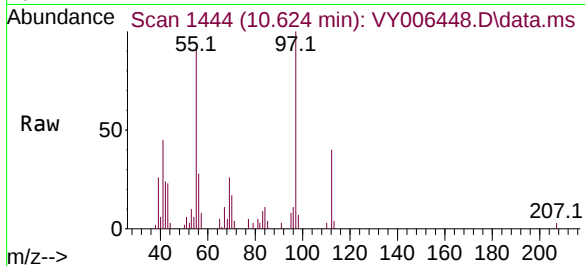




#55  
1,1,2-Trichloroethane  
Concen: 7.828 ug/l  
RT: 10.624 min Scan# 1444  
Delta R.T. -0.024 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

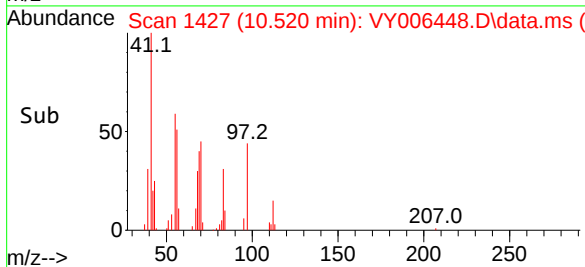
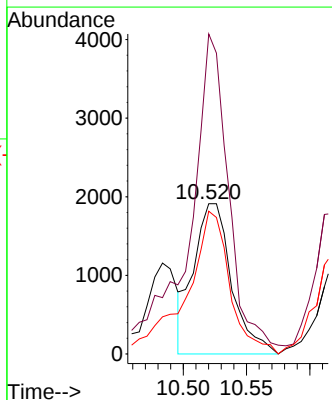
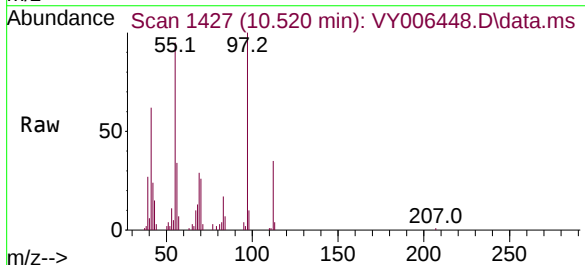
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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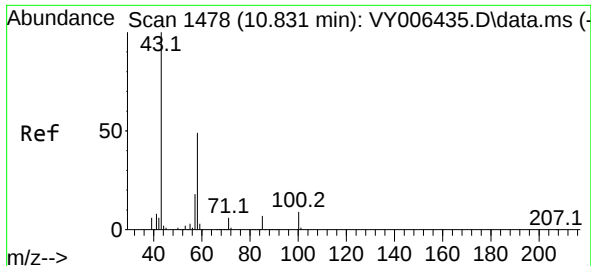
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 7390  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 9.4   | 66.2  | 99.2# |
| 85       | 4.3   | 42.2  | 63.4# |
| 99       | 0.0   | 48.6  | 73.0# |



#56  
Ethyl methacrylate  
Concen: 2.743 ug/l  
RT: 10.520 min Scan# 1427  
Delta R.T. 0.006 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 69    | Resp: | 4000  |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 204.6 | 62.9  | 94.3# |
| 39       | 108.1 | 35.7  | 53.5# |

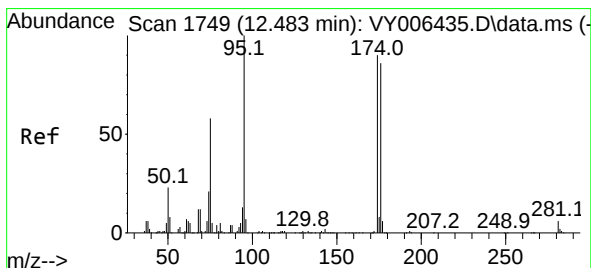
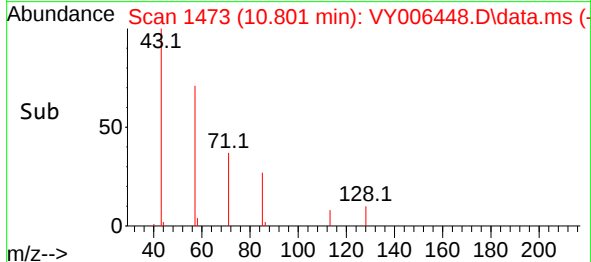
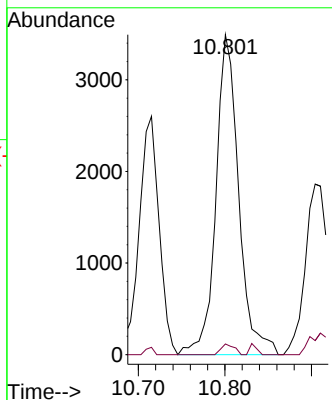
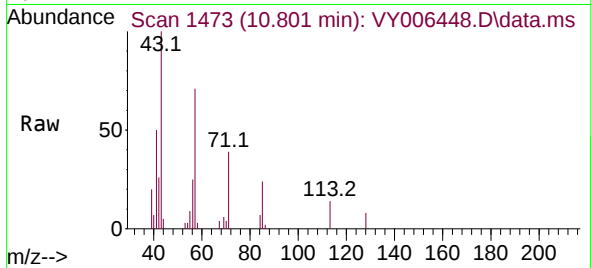




#59  
2-Hexanone  
Concen: 7.786 ug/l  
RT: 10.801 min Scan# 1478  
Delta R.T. -0.031 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

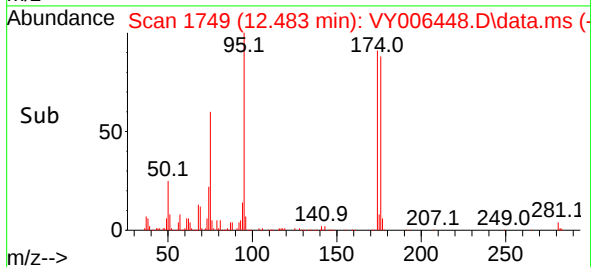
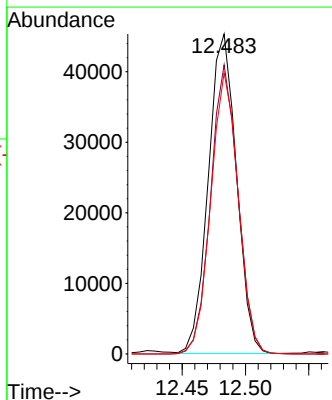
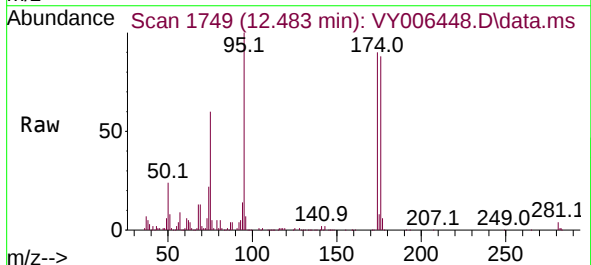
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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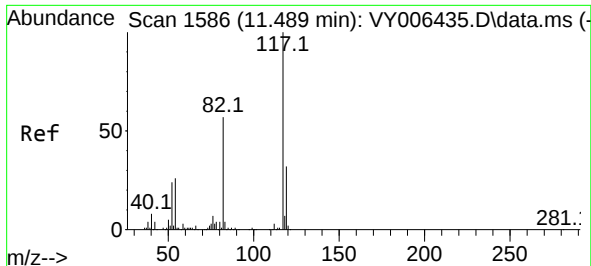
Tgt Ion: 43 Resp: 6386  
Ion Ratio Lower Upper  
43 100  
58 1.9 24.6 73.6#



#62  
4-Bromofluorobenzene  
Concen: 49.368 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 95 Resp: 70022  
Ion Ratio Lower Upper  
95 100  
174 87.7 0.0 177.0  
176 85.9 0.0 169.4

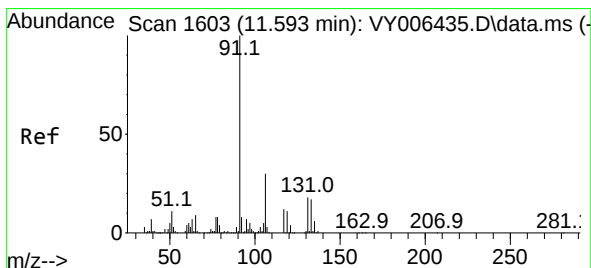
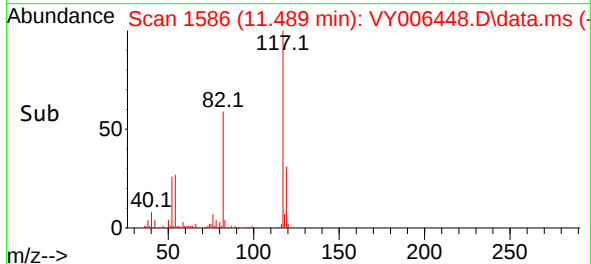
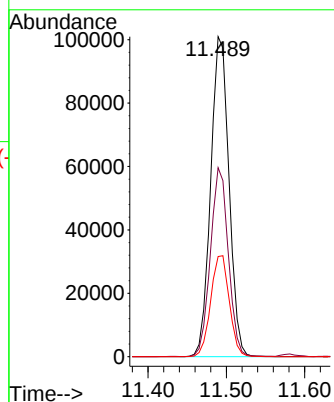
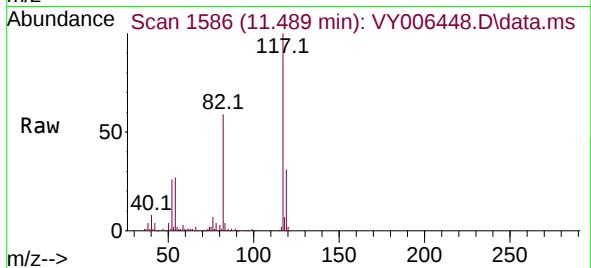




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

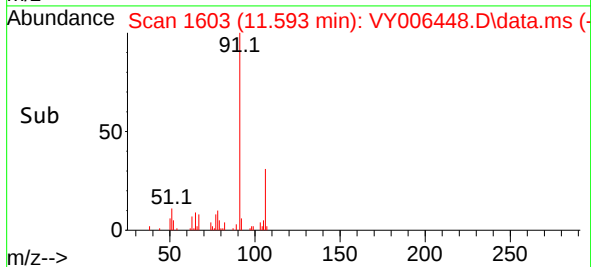
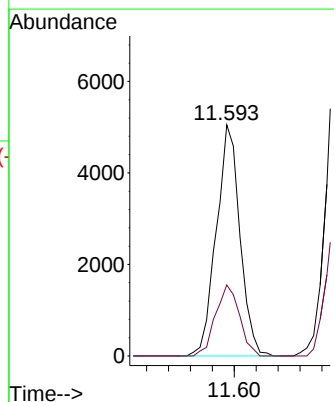
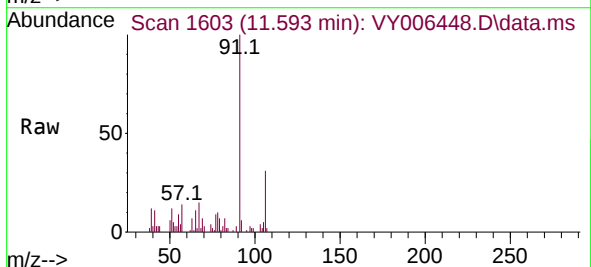
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MSVOA\_Y  
ClientSampleId :  
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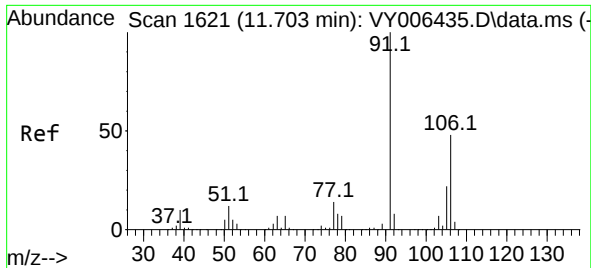
Tgt Ion:117 Resp: 163414  
Ion Ratio Lower Upper  
117 100  
82 59.0 45.7 68.5  
119 31.3 25.5 38.3



#67  
Ethyl Benzene  
Concen: 1.248 ug/l  
RT: 11.593 min Scan# 1603  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 91 Resp: 7560  
Ion Ratio Lower Upper  
91 100  
106 30.8 24.2 36.4

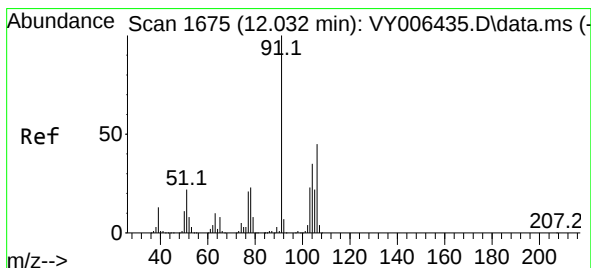
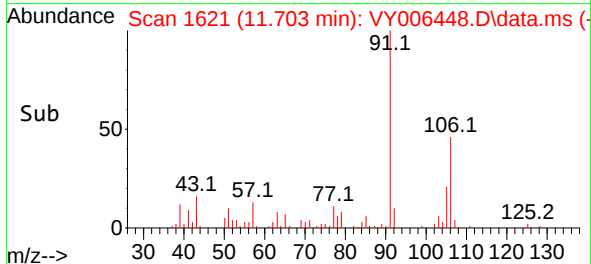
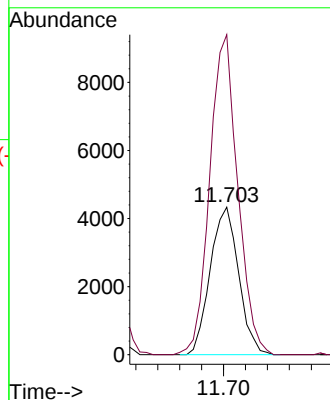
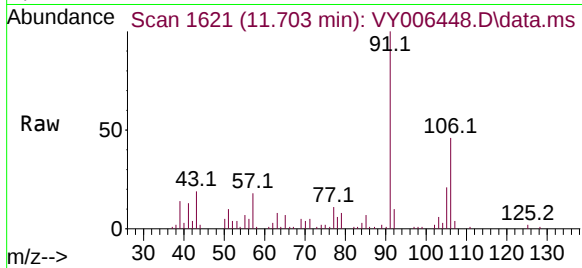




#68  
m/p-Xylenes  
Concen: 3.428 ug/l  
RT: 11.703 min Scan# 1621  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

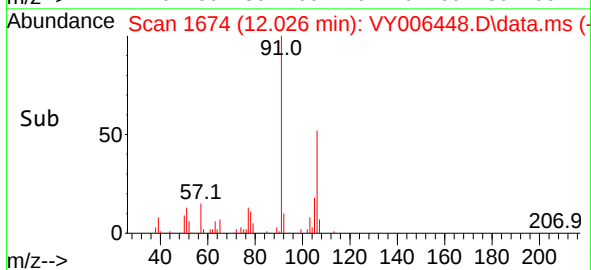
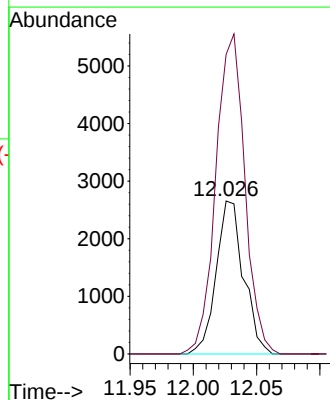
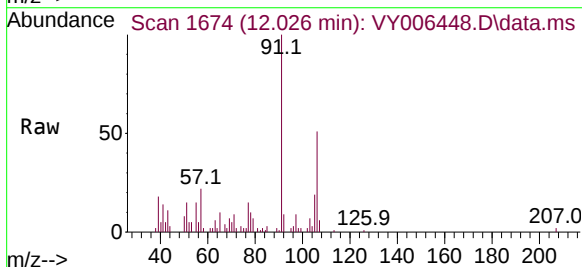
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-2-IS

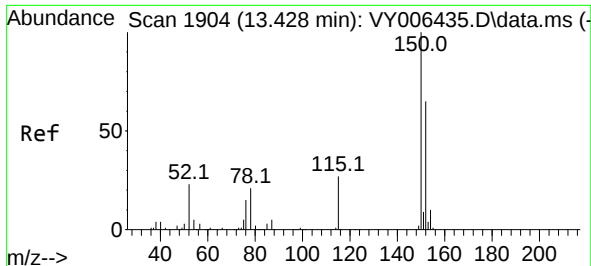
Tgt Ion:106 Resp: 7810  
Ion Ratio Lower Upper  
106 100  
91 213.4 167.5 251.3



#69  
o-Xylene  
Concen: 1.841 ug/l  
RT: 12.026 min Scan# 1674  
Delta R.T. -0.006 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion:106 Resp: 4003  
Ion Ratio Lower Upper  
106 100  
91 221.0 110.3 330.9

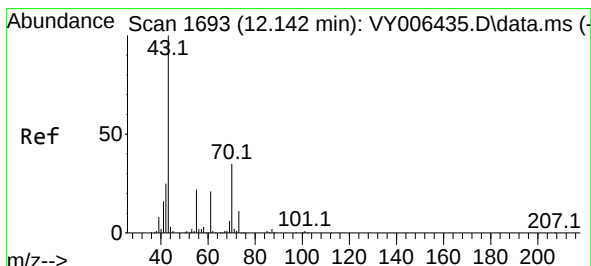
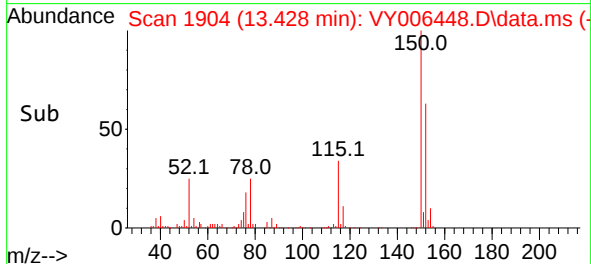
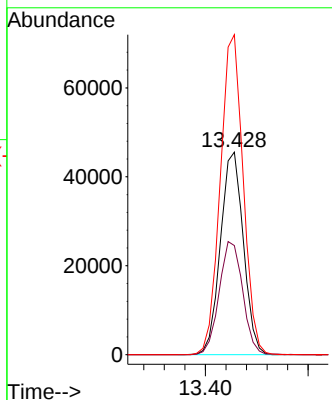
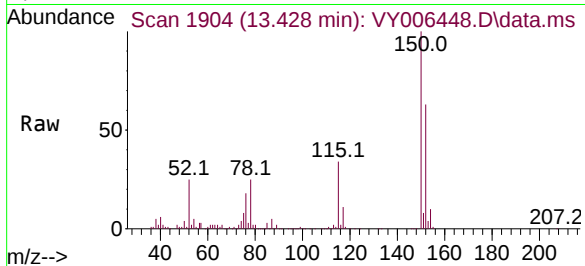




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.428 min Scan# 1904  
Delta R.T. -0.000 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

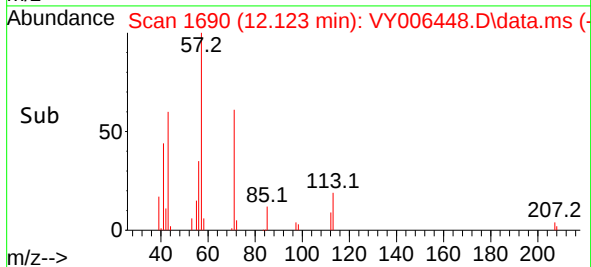
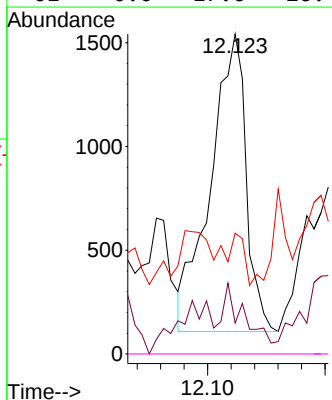
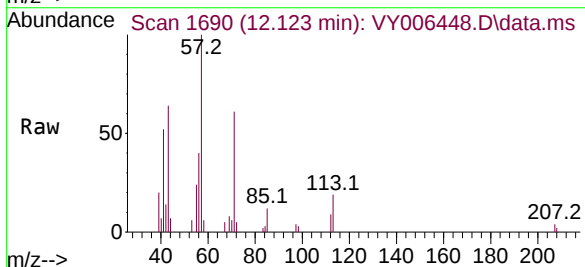
Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-2-IS

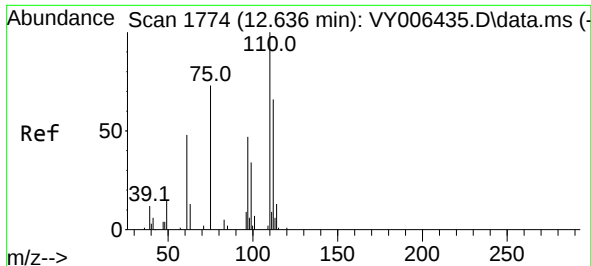
Tgt Ion:152 Resp: 70518  
Ion Ratio Lower Upper  
152 100  
115 57.4 28.5 85.5  
150 157.6 0.0 348.2



#74  
N-ethyl acetate  
Concen: 1.846 ug/l  
RT: 12.123 min Scan# 1690  
Delta R.T. -0.018 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 43 Resp: 3021  
Ion Ratio Lower Upper  
43 100  
70 10.7 29.4 44.0#  
55 0.0 18.1 27.1#  
61 0.0 17.6 26.4#

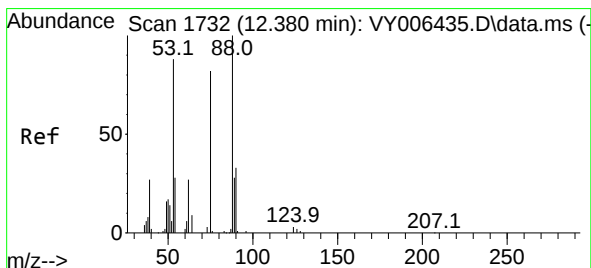
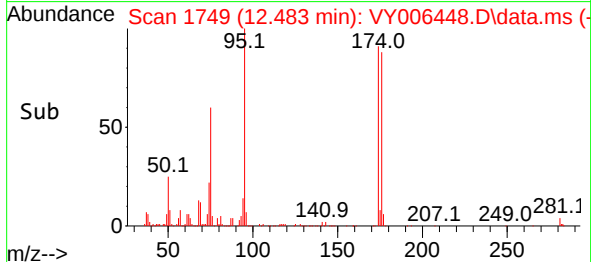
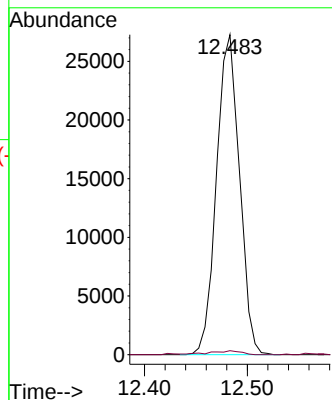
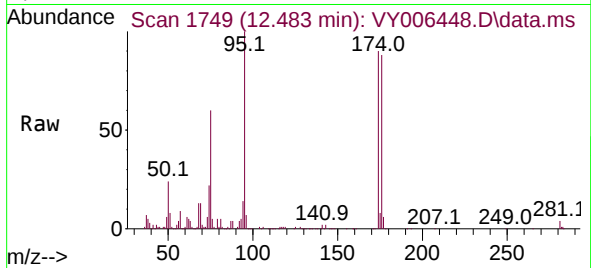




#76  
1,2,3-Trichloropropane  
Concen: 58.201 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. -0.152 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Instrument :  
MSVOA\_Y  
ClientSampleId :  
WC-2-IS

Tgt Ion: 75 Resp: 42293  
Ion Ratio Lower Upper  
75 100  
77 1.7 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 119.485 ug/l  
RT: 12.483 min Scan# 1749  
Delta R.T. 0.104 min  
Lab File: VY006448.D  
Acq: 22 Oct 2021 18:45

Tgt Ion: 75 Resp: 42293  
Ion Ratio Lower Upper  
75 100  
53 2.3 85.8 128.6#  
89 0.0 39.3 58.9#

