

Photocatalytic Hydrogen Energy Evolution from Antibiotic Wastewater via metallic Bi nanosphere doped g-C₃N₄: Performances and Mechanisms

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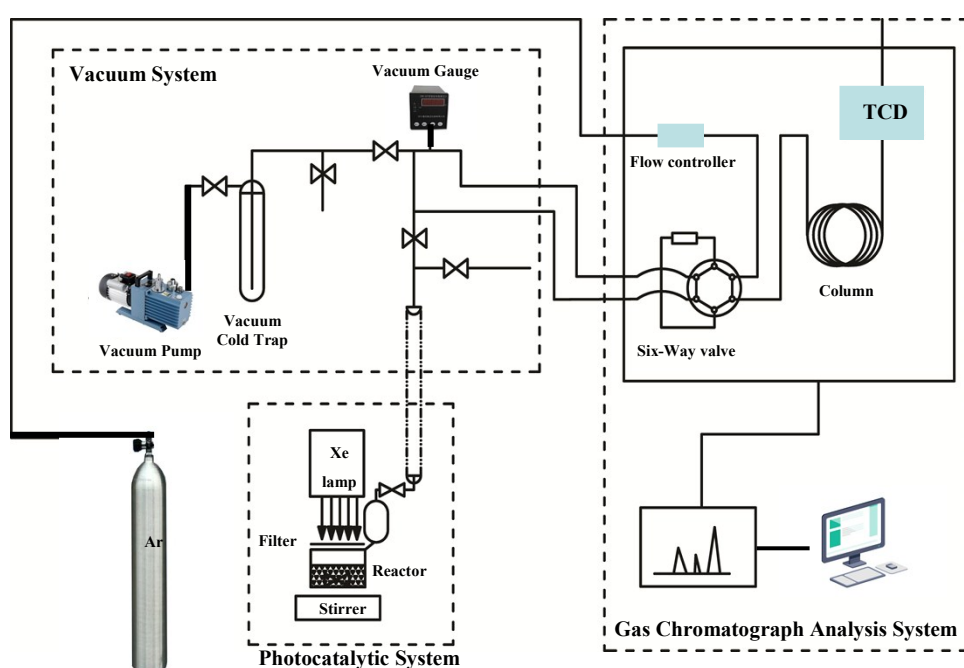


Fig. S1. Scheme of photocatalytic reactor for converting antibiotic wastewater into hydrogen energy

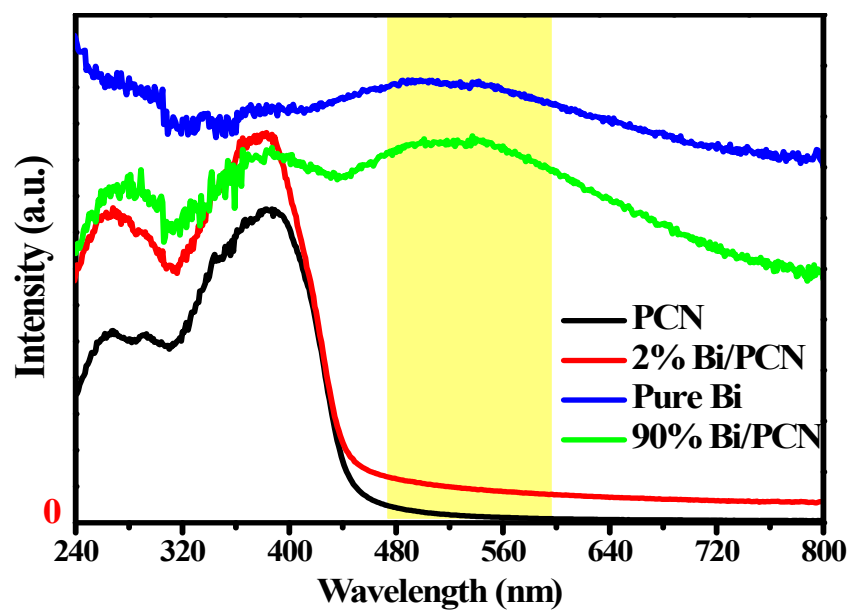


Fig. S2. UV-vis absorption spectrum PCN, 2%Bi/PCN and 90% Bi/PCN

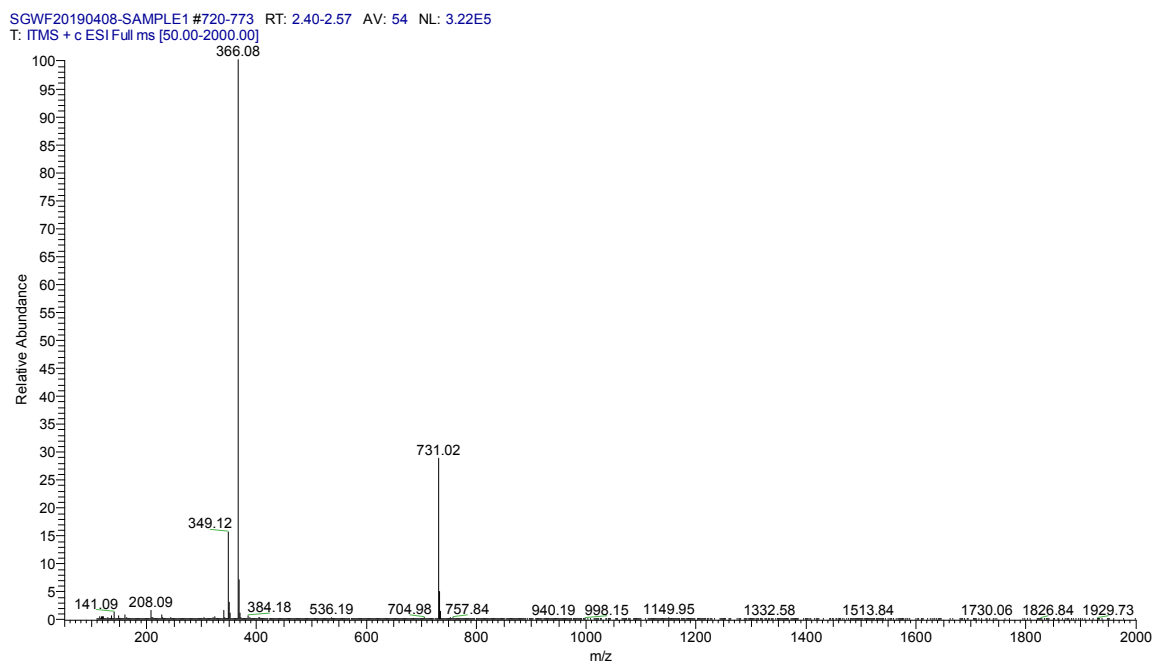
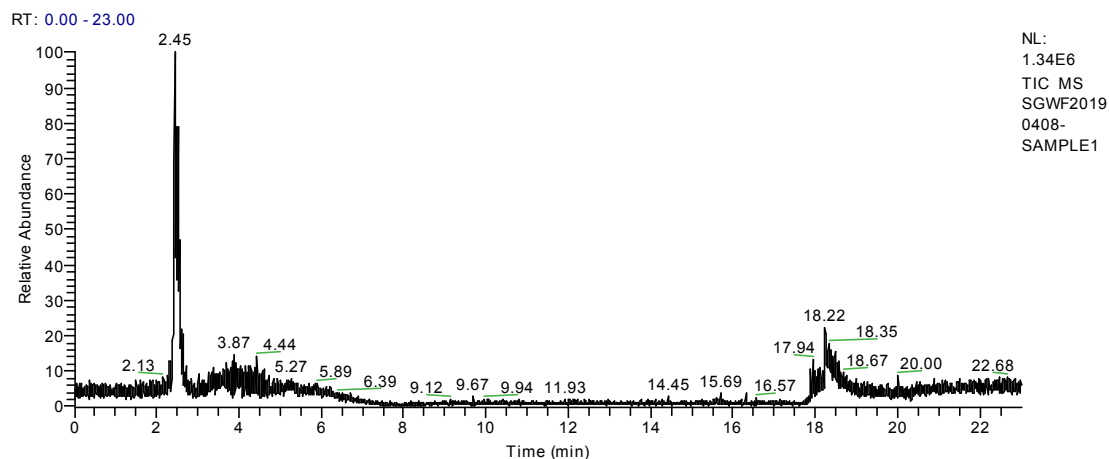
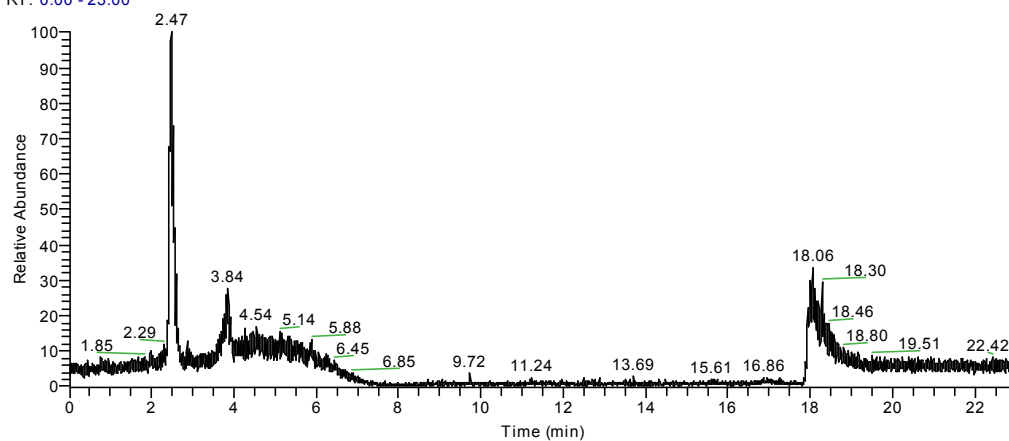


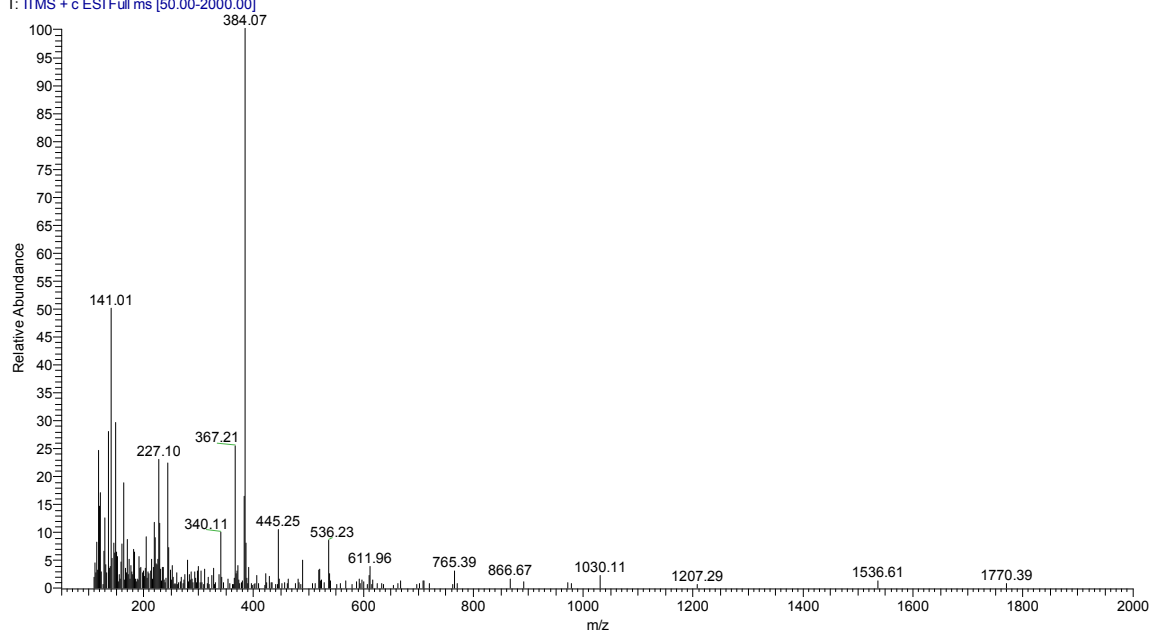
Fig. S3. GC-MS results of the pure amoxicillin with a concentration of 0.1g/L

RT: 0.00 - 23.00

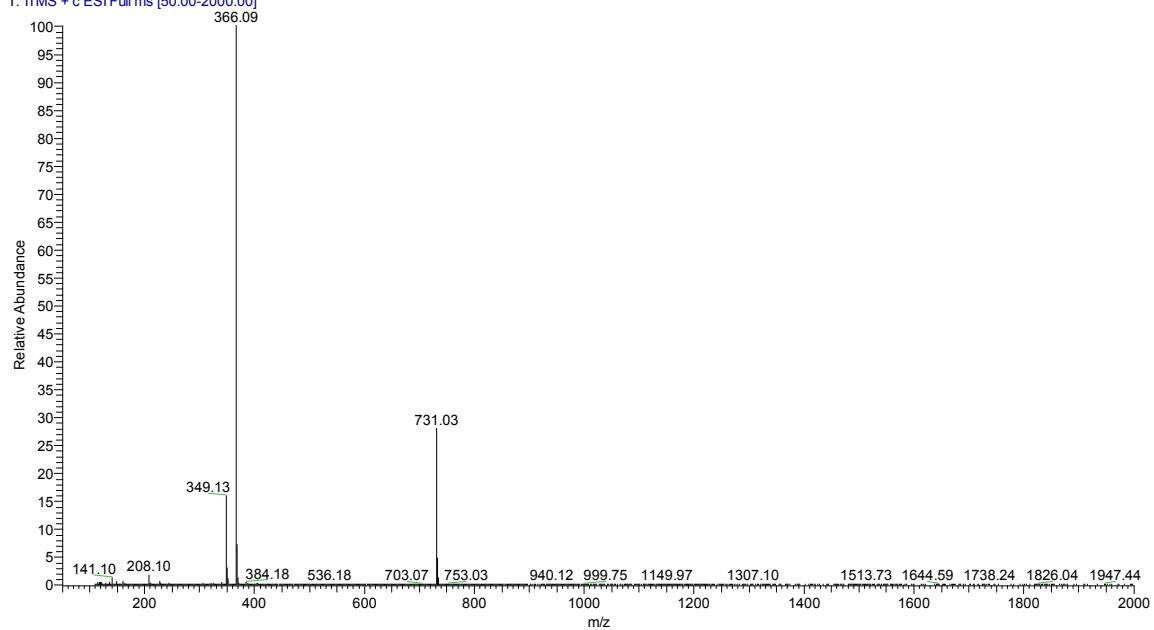


NL:
1.50E6
TIC MS
SGWF2019
0408-
SAMPLE2

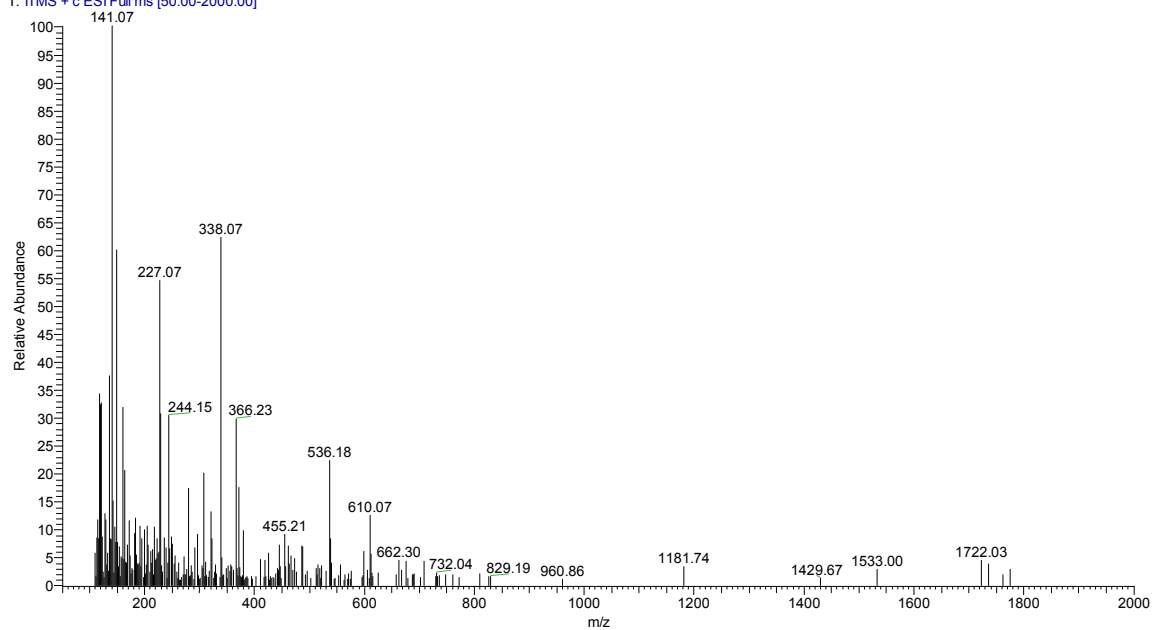
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T: ITMS + c ESI Full ms [50.00-2000.00]



SGWFF20190408-SAMPLE2 #725-761 RT: 2.41-2.53 AV: 37 NL: 4.99E5
T: ITMS + c ESI Full ms [50.00-2000.00]



SGWFF20190408-SAMPLE2 #861 RT: 2.87 AV: 1 NL: 8.10E3
T: ITMS + c ESI Full ms [50.00-2000.00]



SGWFF20190408-SAMPLE2 #1150 RT: 3.83 AV: 1 NL: 6.55E4
T: ITMS + c ESI Full ms [50.00-2000.00]

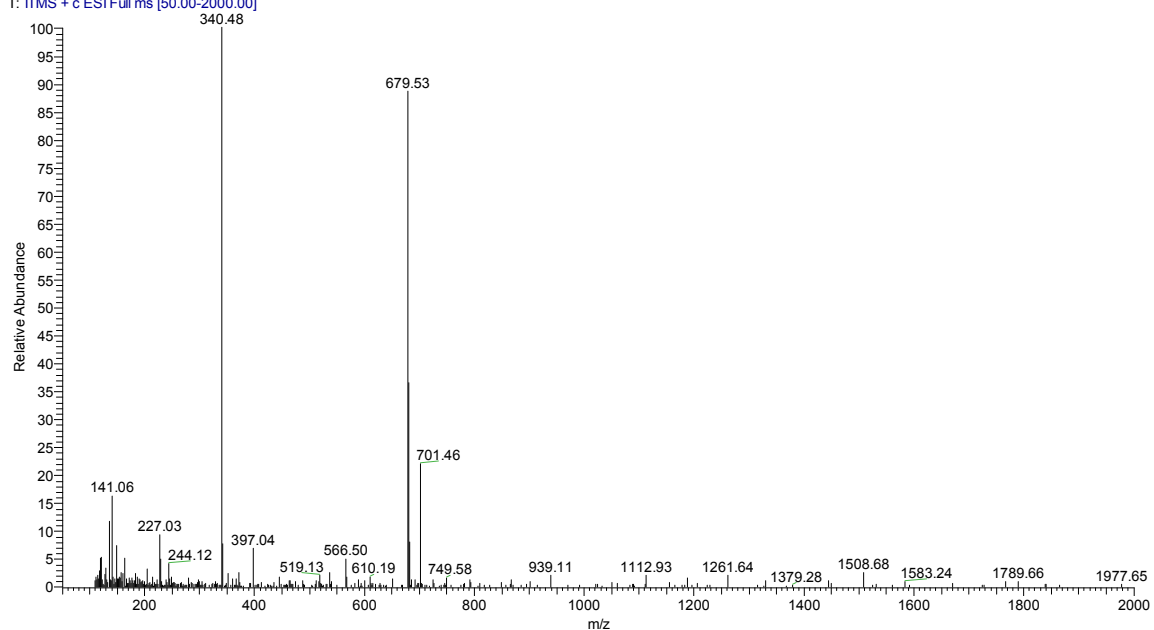
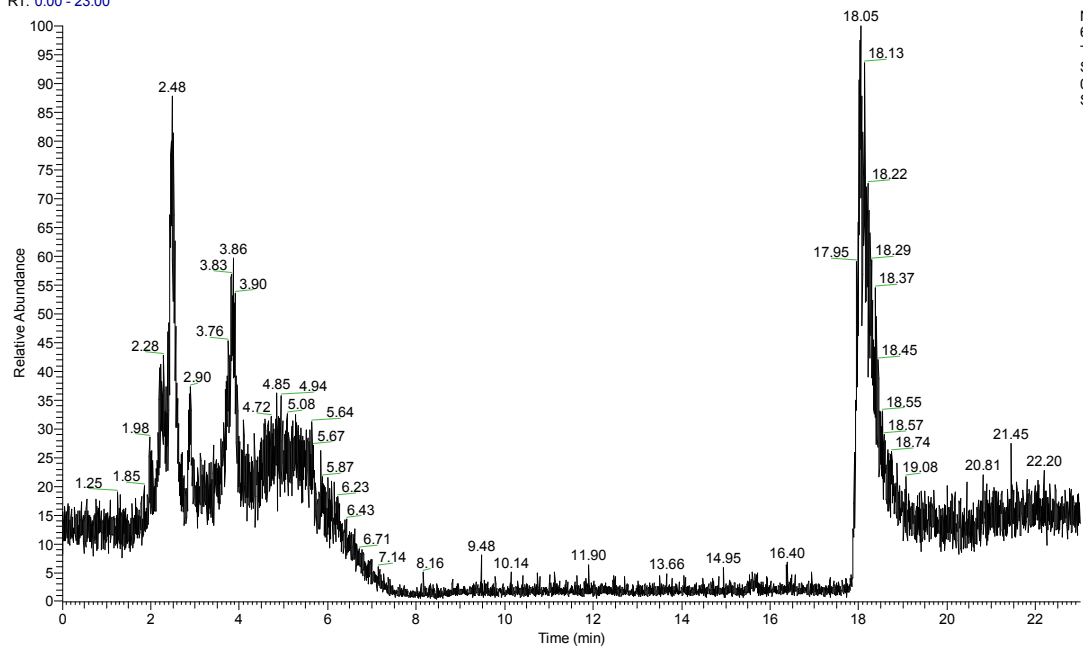


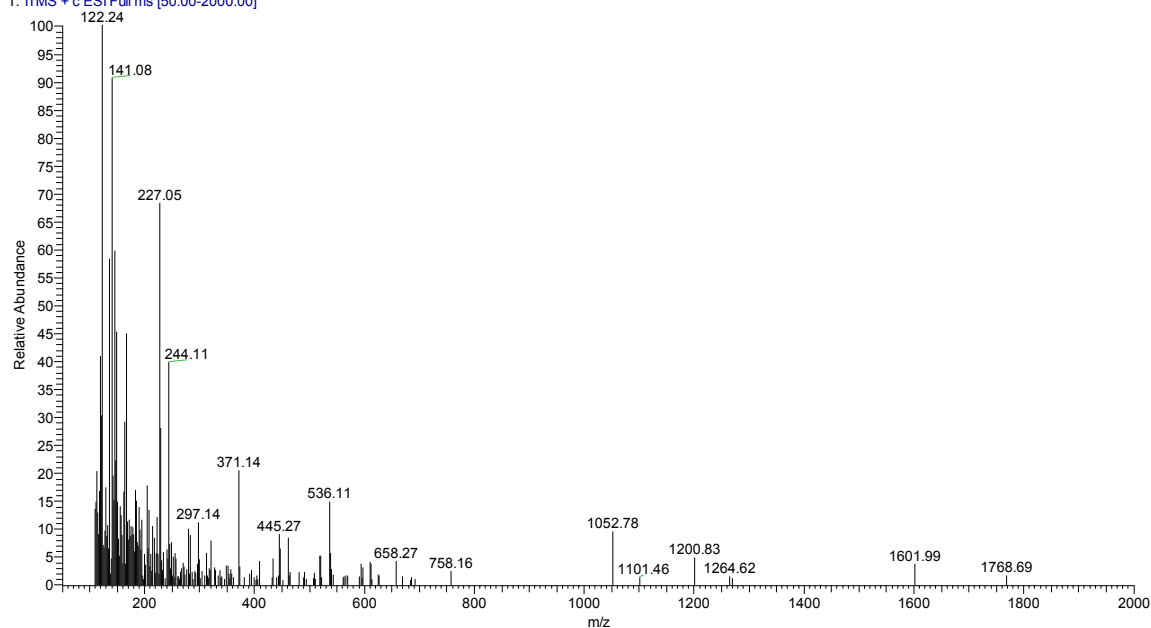
Fig. S4. GC-MS results of the amoxicillin after photodegradation under anaerobic environment.

RT: 0.00 - 23.00

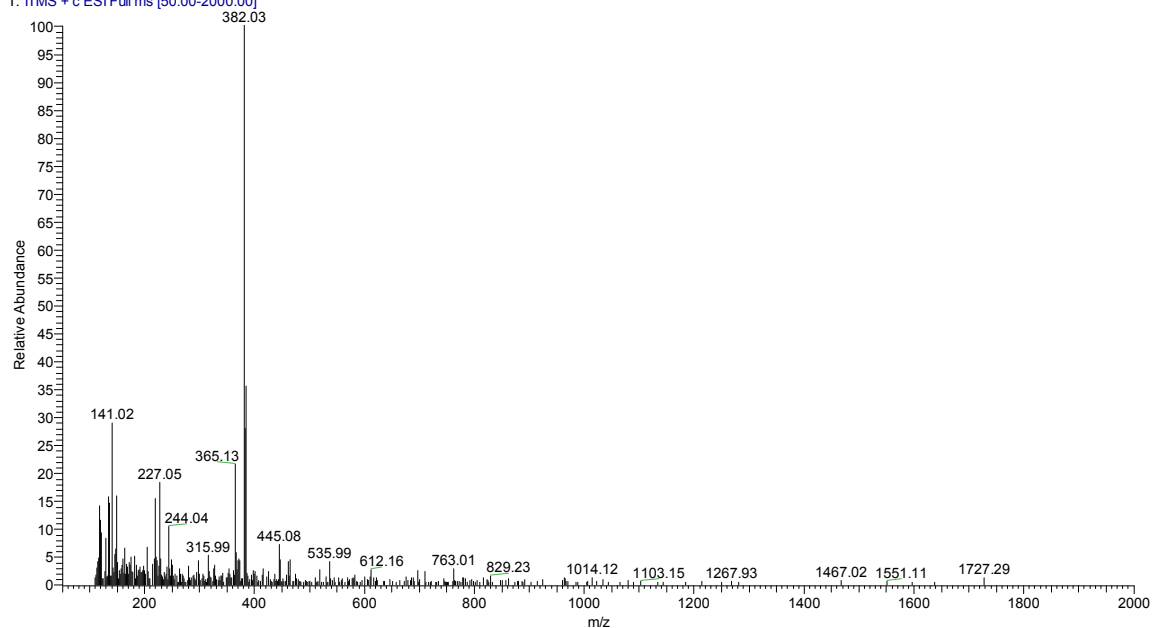


NL:
6.64E5
TIC MS
SGWF2019
0408-
SAMPLE3

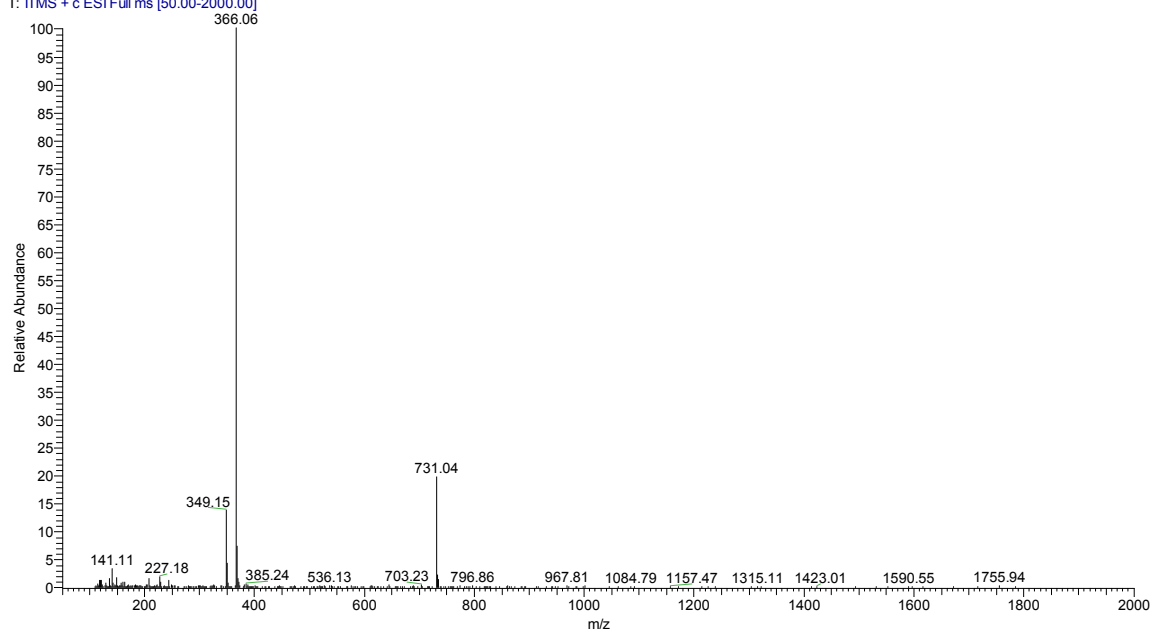
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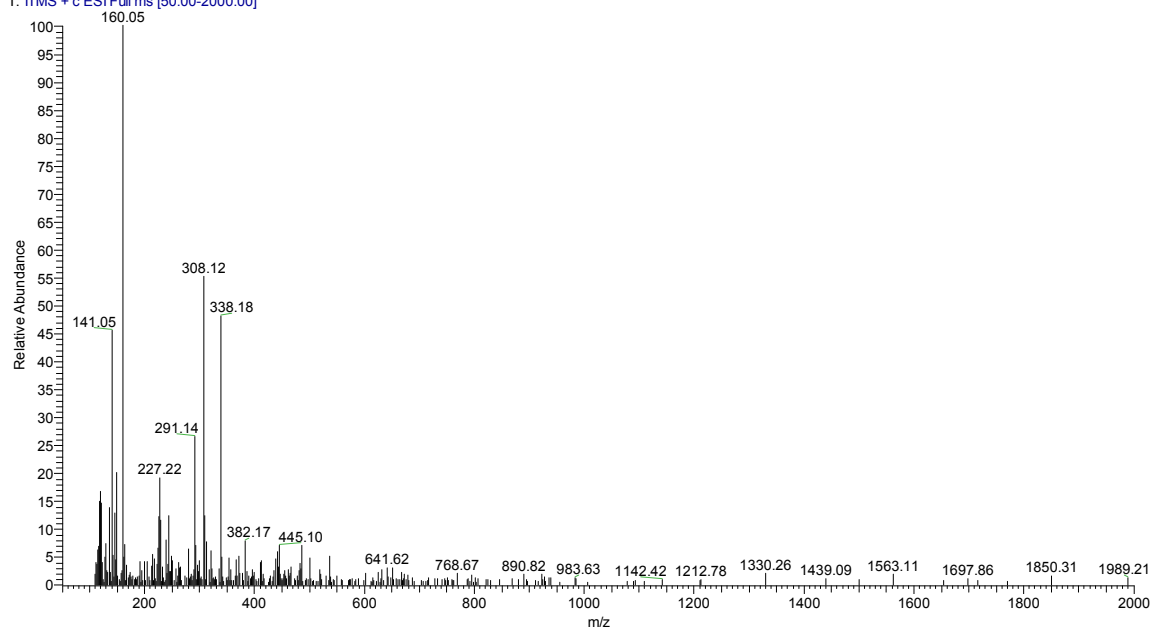
SGWFF20190408-SAMPLE3 #672 RT: 2.24 AV: 1 NL: 2.29E4
T: ITMS + c ESI Full ms [50.00-2000.00]



SGWFF20190408-SAMPLE3 #749 RT: 2.49 AV: 1 NL: 1.98E5
T: ITMS + c ESI Full ms [50.00-2000.00]



SGWFF20190408-SAMPLE3 #861 RT: 2.87 AV: 1 NL: 1.70E4
T: ITMS + c ESI Full ms [50.00-2000.00]



SGWFF20190408-SAMPLE3 #1150 RT: 3.83 AV: 1 NL: 6.19E4
T: ITMS + c ESI Full ms [50.00-2000.00]

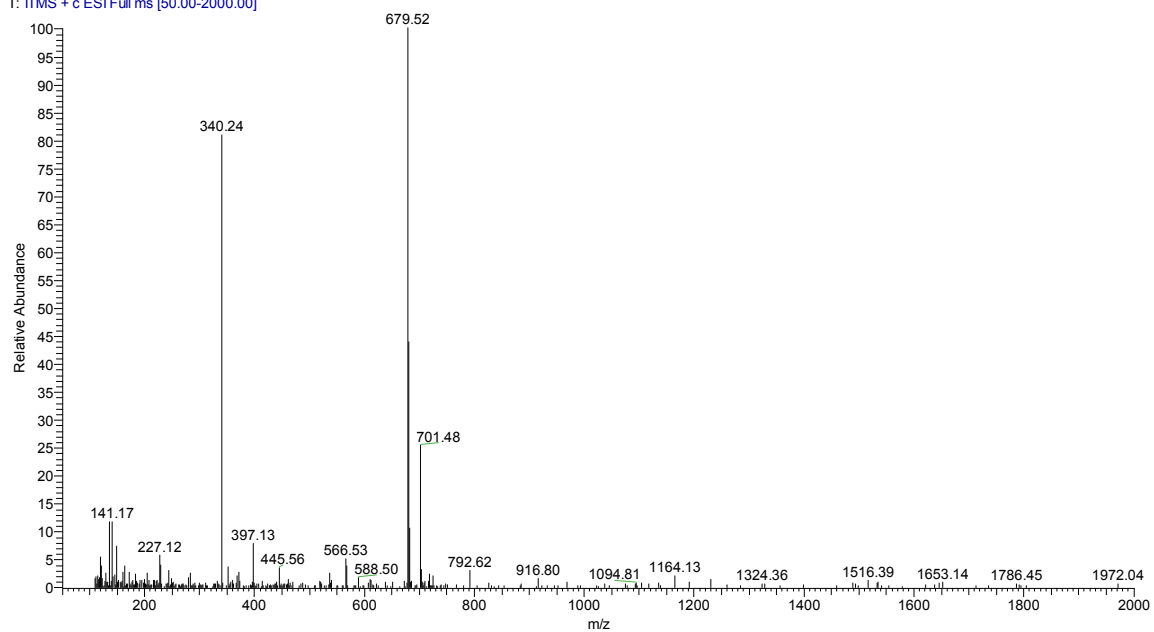


Fig. S5. GC-MS results of the amoxicillin after photodegradation under aerobic environment.