

LPWAN 2 Testing

| Location                   | Coordinates               | Spreading Factor | RSSI (eui...3f0) | SNR (eui 3f0) | RSSI (eui...798) | SNR (eui 798) |
|----------------------------|---------------------------|------------------|------------------|---------------|------------------|---------------|
| Building 16                | 50.9375464,<br>-1.3955326 | 7                | -91              | 15            | -90              | 6.5           |
|                            |                           | 12               | -82              | 15            | -84              | 7.8           |
| Zepler car park            | 50.937149,<br>-1.397181   | 7                | -88              | 15            | -96              | 9.5           |
|                            |                           | 12               | -92              | 15            | -97              | 7.5           |
| Maths Building/Turner sims | 50.935985,<br>-1.398635   | 7                | -95              | 15            | -95              | 9.5           |
|                            |                           | 12               | -91              | 10            | -99              | 5.2           |
| Maths building floor 11    | 50.936249,<br>-1.398748   | 7                | -91              | 13            | -114             | 0.5           |
|                            |                           | 12               | -88              | 15            | -96              | 6.2           |
| Physics Building           | 50.934719,<br>-1.400228   | 7                | -93              | 15            | -93              | 9.2           |
|                            |                           | 12               | -94              | 13            | -94              | 7.5           |
| Avenue - “Lover’s Walk”    | 50.933662,<br>-1.401363   | 7                | -96              | 10            | -102             | 9             |
|                            |                           | 12               | -90              | 12            | -91              | 8.2           |
| Avenue Field               | 50.930476,<br>-1.403845   | 7                | -102             | -1            | -97              | 5.8           |
|                            |                           | 12               | -99              | 11            | -104             | 4             |
| Avenue subway              | 50.929971,<br>-1.405865   | 7                | -116             | -2            | -119             | -4.5          |
|                            |                           | 12               | -116             | -3            | -114             | -9.5          |
| Common (open)              | 50.929267,<br>-1.407737   | 7                | -108             | 4             | -113             | -1            |
|                            |                           | 12               | -107             | -6            | -108             | 0.2           |
| Common (trees)             | 50.930497,<br>-1.409610   | 7                | -114             | -2            | ---              | ---           |
|                            |                           | 12               | -115             | -2            | -116             | -3.5          |

**Legend:**  
eui...798 —> Lancaster Building (no. 7) - DIY Raspberry Pi Gateway  
eui...3f0 —> Lancaster Building (no. 7) - Official Antenna Gateway