

27/05

- Unmodulated Cosine wave
- 3.3 GHz center frequency
- 20 dB Tx Gain, 30 dB Rx Gain
- No elevation, on ground
- 1 Tx, 1 Rx
- 150 cm distance between Tx and Rx
- Object(Bottle) in line of sight of receiver
- The table shows average powers calculated by taking readings for approximately 30 seconds.

1st iteration-

Distance (cm) from Rx	Average Power (dB)
No object	25.71
20.0	10.97
30.0	10.08
40.0	18.19
50.0	16.31
60.0	13.53
75.0	14.02

[2705.xlsx](#)

These readings were somewhat inconsistent, so they were taken again with more number of distances.

2nd iteration-

Distance (cm) from Rx	Average Power
N/A (no object)	29.418
20	16.672
30	20.3695
40	22.0595
50	23.2104
60	20.9226
70	23.6603
80	22.6113
90	23.2136
100	22.0290
110	21.996
120	25.172
130	24.704

2705 new.xlsx