

Exp 1: Understanding of PathLoss

Name: SANJIT U19EC008

| REPORT | | | | |
|-----------------------------------|--------------------------------------|--------------------------------------|--|--------------------------------------|
| 1A: Calculation of Received Power | 1B: Calculation of Pathloss Exponent | 1C: Calculation of Carrier Frequency | 1D: Calculation of Receiver Antenna Height | 1E: Calculation of BS Antenna Height |
| Pr(d0): -25.5 dBm | Pr(d0): -22.87 dBm | n: 3.72 | fc: 2.0 Ghz | fc: 2.0 Ghz |
| Dist: 800.0 m | TxPow: 50.0 dBm | TxPow: 50.0 dBm | TxPow: 50.0 dBm | TxPow: 50.0 dBm |
| d0: 63.0m | Dist: 800.0 m | hTx: 30.0 m | hTx: 30.0 m | n: 3.07 |
| | Pr(d): -66.04 dBm | Dist: 800.0 m | Dist: 800.0 m | Dist: 800.0 m |
| | d0:87.0m | Pr(d): -42.96 dBm | Pr(d): -24.52 dBm | Pr(d): -25.98 dBm |
| | | hRx: 1.0 m | n: 3.32 | hRx: 1.0 m |
| Pr(Entered):-47.57 dBm | n(Entered):4.48 | fc(Entered):1.54 GHz | hRx(Entered):3.2 m | hTx(Entered):31.483 m |
| Pr(Actual):-47.57 dBm | n(Actual):4.48 | fc(Actual):1.54 GHz | hRx(Actual):3.2 m | hTx(Actual):31.48 m |

DISCUSSION:-

No discussion added.

(Signature of SANJIT U19EC008)

(Signature of Faculty)

Remarks:-