

## RF Exposure (FCC ID: BRCPC8018)

### Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This is a Portable device. **KDB447498 D01 V05 was used as the guidance.**

### SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq 50$ mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz  | 5  | 10 | 15  | 20  | 25  | mm                                      |
|------|----|----|-----|-----|-----|-----------------------------------------|
| 150  | 39 | 77 | 116 | 155 | 194 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 300  | 27 | 55 | 82  | 110 | 137 |                                         |
| 450  | 22 | 45 | 67  | 89  | 112 |                                         |
| 835  | 16 | 33 | 49  | 66  | 82  |                                         |
| 900  | 16 | 32 | 47  | 63  | 79  |                                         |
| 1500 | 12 | 24 | 37  | 49  | 61  |                                         |
| 1900 | 11 | 22 | 33  | 44  | 54  |                                         |
| 2450 | 10 | 19 | 29  | 38  | 48  |                                         |
| 3600 | 8  | 16 | 24  | 32  | 40  |                                         |
| 5200 | 7  | 13 | 20  | 26  | 33  |                                         |
| 5400 | 6  | 13 | 19  | 26  | 32  |                                         |
| 5800 | 6  | 12 | 19  | 25  | 31  |                                         |

Maximum measured transmitter Conducted Power: 802.11b

| Maximum Peak Conducted Power (dBm) | Maximum Conducted Power (AV) (dBm) | Maximum Conducted Power (mW) |
|------------------------------------|------------------------------------|------------------------------|
| 11.78                              | 9.8                                | 9.54                         |

Maximum measured transmitter Conducted Power: 802.11g

| Maximum Peak Conducted Power (dBm) | Maximum Conducted Power (AV) (dBm) | Maximum Conducted Power (mW) |
|------------------------------------|------------------------------------|------------------------------|
| 10.38                              | 8.4                                | 6.92                         |

Maximum measured transmitter Conducted Power: 802.11n HT20

| Maximum Peak Conducted Power (dBm) | Maximum Conducted Power (AV) (dBm) | Maximum Conducted Power (mW) |
|------------------------------------|------------------------------------|------------------------------|
| 9.86                               | 7.88                               | 6.14                         |

Maximum measured transmitter Conducted Power: 802.11n HT40

| Maximum Peak Conducted Power (dBm) | Maximum Conducted Power (AV) (dBm) | Maximum Conducted Power (mW)) |
|------------------------------------|------------------------------------|-------------------------------|
| 8.52                               | 6.54                               | 4.51                          |

Refer to 447498 25 D01 General RF Exposure Guidance v05 Appendix A, you see that for Maximum Conducted Output Power 9.54mW (<19mW), so no SAR is required.