

## **Appendix 13. RF Exposure Requirement**

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 648474 given in Oct08 FCC-TCB meeting notes Harrington (Per FCC comment from KDB Inquiry tracking number 662292)

P1 = 2.22mW (BT), P2 = 11.88mW (WLAN),

D = 1.5cm (Closest distance from antenna to human body)

Dxy = 1.1cm (Closest distance between two antennas)

### **BT**

Frequency Range		Center frequency (MHz)	Pref SAR Limitation (mw)
Low Frequency (MHz)	High Frequency(MHz)		
2402	2480	2442	12

Maximum measured transmitter power:

Average Source Based Power (mw)
2.22mW

In page 11, Table (c)(iii) , P1 (BT) is less than 12mW, and P2 (WLAN) is also less than 12 mW.

**Conclusion:** No Stand Alone SAR is required.

### **WLAN**

Frequency Range		Center frequency (MHz)	Pref SAR Limitation (mw)
Low Frequency (MHz)	High Frequency(MHz)		
2412	2472	2442	12

Maximum measured transmitter power: 802.11b

Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
11.88	-0.9	9.66

Maximum measured transmitter power: 802.11g

Conducted Power (mw)	Max Antenna Gain (dBi)	EIRP (mw)
6.53	-0.9	5.31

In page 11, Table (c)(iii) , P2 (WLAN) is less than 12mW, and P1 (BT) is also less than 12 mW.

---

**Conclusion:** No Stand Alone SAR is required.

## **SIMULTANEOUS TRANSMISSION EVALUATION**

EUT has meet requirement of page 14 of KDB 648474 given in Oct08 FCC-TCB meeting notes Harrington so that No Simultaneous SAR is required.

Sum of 1g SAR is less than 1.6 W/Kg