

Appendix 5

Radio Frequency Exposure

Safety Human Exposure – Radio Frequency Exposure Compliance		Pass
Test Specification : FCC KDB Publication 447498 D01 v05r02 Requirement : The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}]$ ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR where f(GHz) is the RF channel transmit frequency in GHz Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison		
Results	: max. power of channel = $-6.34 + 0.5$ dBm (E.I.R.P.) = 0.261 mW min. test separation distance = 3mm (a distance of 5mm is applied to determine SAR test exclusion) frequency = 2.402GHz Exclusion threshold = $(3 \times 5) / (\sqrt{2.402})$ = 9.678 mW Since maximum peak output power of the transmitter is 0.261mW < 9.678 mW, the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure v05r02.	