

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 \leq 50 mm are determined by:	
	$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \times \sqrt{f(\text{GHz})}$ $\leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$ <p>where</p> <p>$f(\text{GHz})$ 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</p>	
Results	: max. power of channel = $-6.34 + 0.5 \text{ dBm}$ (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.	