RF Exposure evaluation

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b):

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f}(GHz)] \le 3.0$ 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

Worse case is as below:

[2480MHz <u>4.19dBm</u> (2.624mW) output power]

According to the formula.calculate the EIRP test result:

[(max.power of channelm including tune-up tolerance, mW)/(min.test separation distance, mm)].[$\sqrt{f(GHz)}$]

Channel	Measured power(dBm)	Tuneuptoleran ce(dBm)	Max.TuneupP ower(dBm)	Peak output power(mW)	Distance (mm)	Calculation results	Limit
2.48	4.19	4.19±1	5.19	3.30369541	5	1.0405	3

EDR

Channel	Measured power(dBm)	Tuneuptoleran ce(dBm)	Max.TuneupP ower(dBm)	Peak output power(mW)	Distance (mm)	Calculation results	Limit
2.48	0.91	0.91±1	1.91	1.55238701	5	0.4889	3

Then SAR evaluation is not required