

FCC ID: JFZSQ1TWL

Standalone SAR test exclusion considerations

RF feauture	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm) ^{Note1,2}	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
ВТ	BDR(1Mbps)	2 480.00	5.0	0.11	5.35	3.427 7	1.08	3.00
ВТ	EDR(2,3Mbps)	2 480.00	5.0	0.11	4.35	2.722 7	0.86	3.00
BLE	GFSK(1Mbps)	2 480.00	5.0	0.11	0.00	1.000 0	0.31	3.00

Note1. For bluetooth(BDR, EDR), the max tune-up power was based on time-averaged power.

Max Time Avg. Power = Max Burst Avg. Power + Duty facor

Duty facotr = $10 \times \log (TX_{on time} / Tx_{on+off time}) = 10 \times \log (2.88 ms/3.75 ms) = -1.15 dB$

Note2. Please refer to the operation description for Max tune-up power.

KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1g SAR and \leq 7.5 for 10g extremity SAR **Sample Calculation**

 $= [(3.4277 \text{mW} / 5 \text{mm})] \text{ X } [\sqrt{2.48 \text{GHz}}] = 1.08$

Note. The calculation result was rounded to two decimal place for comparison.