

Standalone SAR test exclusion considerations: **BT**

Date: December 18, 2018

RF feaature	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm) ^{Note1}	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
BT	BDR(1Mbps)	2480.00	5.0	-1.10	8.00	6.3096	1.99	3.00
BT	EDR(2,3Mbps)	2480.00	5.0	-1.10	5.00	3.1623	1.00	3.00

Note1. Please refer to the Operational description for Max tune-up.

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

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

$$= [(6.3096\text{mW} / 5\text{mm})] \times [\sqrt{2.48\text{GHz}}] = 1.99$$

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

Conclusion : SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required