

Standalone SAR test exclusion considerations

RF feature	Mode	Transmitting Frequency(MHz)	Test separation distance (mm)	ANT Gain (dBi)	Max. power with tune-up tolerance (dBm)	Max. power with tune-up tolerance (mW)	Power thresholds	SAR test exclusion thresholds
Bluetooth(BDR)	1 Mbps	2 480.00	5.0	-0.68	8.00	6.309 6	1.99	3.00

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

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

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