

SAR test exclusion according to KDB447498 (General RF Exposure Guidance v06r02)

Equation from Chapter 4.3.1: Standalone SAR test exclusion considerations (page 11 and ff).

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Certification numbers and labeling requirements	
FCC ID	QZ9-CG2

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Document authorized:

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EUT technologies:

Technologies:	Max. power: (Average conducted incl. Tune up) [dBm]	Max. power: (Average conducted incl. Tune up) [mW]
Bluetooth Classic	4.0	2.5

(1) Standalone SAR test exclusion for 100 MHz to 6 GHz at test separation distances ≤ 50mm

$$P \leq (\text{Threshold}_{1-g;10-g}) * d_{\text{separation}} / f_{(\text{GHz})}^{1/2}$$

where

P max. Power of channel (incl. tune-up tolerance [mW]), Average cond.
 Threshold_{1-g;10-g} is 3 for 1-g; 7.5 for 10-g
 d_{separation} is the min. test separation distance in mm
 (5 mm is used if the distance is less)
 f_(GHz) is the RF channel transmit frequency in GHz

The table below gives the calculated maximal power that could be used for source based time averaged conducted power, adjusted for tune up tolerance. If this is below the calculated value SAR testing is obsolete.

f in [MHz]	d _{separation} [mm]	Threshold _{1-g;10-g}	Powerlimit [mW]	P _{max-declared} [mW]	Exclusion
2402,00	5	3	9,7	2,5	yes
2441,00	5	3	9,6	2,5	yes
2480,00	5	3	9,5	2,5	yes

*Note: P_{max-declared} = Average Power Conducted + Tune up tolerance (max value)
 Where Tune up tolerance : 0 dB*