

FCC ID: OPFXB55

Model: Exospace B55

SAR test exclusion according to KDB447498 (General RF Exposure Guidance v05r02)

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

(1) Standalone SAR test exclusion for 100 MHz to 6 GHz at test separation distances $\leq 50\text{mm}$

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

where

P max. Power of channel (incl. tune-up tolerance [mW])
 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 If this is below the calculated value SAR testing is obsolete.

Bluetooth Low Energy:

f in [MHz]	d _{separation} [mm]	Threshold _{1-g;10-g}	Powerlimit [mW]	P _{max-declared} [mW]	Exclusion
2402,00	5	3	9,7	1,0	yes
2440,00	5	3	9,6	1,0	yes
2480,00	5	3	9,5	1,0	yes

Note: P_{max-declared} = Average Power Conducted (Peak Power - Duty cycle correction factor(2.2 dB for Bluetooth LE)) + Tune up tolerance

Tune up tolerance declared: +2dB

Co-location: no

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