

Standalone SAR test exclusion considerations

April 27, 2017

- Device category = 🗹 Portable device 🗌 Mobile device								
- Transmitting mode = 🛛 🖸 Single Transmitting	ransmitting 🛛 Simultaneous Transmitting							
- Max. transmitting frequency = 24	2480 MHz							
- Min. test separation distance =	30 mm							
- Max. Antenna Gain = 1.2 dB	Bi							
- Max. power with turn-up tolerance = 17.00 dBm = 50.2 mW (Typical Power = Max. 17.00 dBm)								
Note. Bluetooth								

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

= [(50.2mW / 30mm)] X [√2.48GHz] = 2.6

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

→ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.



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Standalone SAR test exclusion considerations

- Device	category =	evice 🗌] Mobile c	levice										
- Transmitting mode = 🛛 Single Transmitting 🔹 🗌 Simultaneous Transmitting														
- Max. tra	ansmitting frequency =	2480	MHz											
- Min. tes	st separation distance =	30	mm											
- Max. Ar	ntenna Gain = 1.2	dBi	_											
- Max. po	ower with turn-up tolerance	e = 1.0	0 dBm	= 1.3	mW	(Typical P	ower =	Max.	1.00	dBm)			
Note.	Bluetooth LE													

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

= [(1.3mW / 30mm)] X [√2.48GHz] = 0.1

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

→ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.