

Bundesnetzagentur

BNetzA-CAB-02/21-102

SAR Test exclusion documentation according to FCC KDB 447498, RSS-102

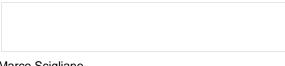
Report identification number: 1-1830/21-01-05 Exclusion (FCC_ISED)

contains the module with the following certification numbers			
FCC ID 2AD85-C21M			
ISED number	22600-C21M		
HVIN (Hardware Version Identification Number)	C21M		
PMN (Product Marketing Name)	Chipolo ONE Spot		
FVIN (Firmware Version Identification Number)	N5-1.00		
HMN (Host Marketing Name)	-/-		

This test report is electronically signed and valid without handwritten signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Document authorised:

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EUT technologies:

Technologies:	Max. rated power: (AVG)	Max. gain:	Min. pathloss:			
Bluetooth LE	Declared: max 0 dBm	5.3 dBi	0 dB (if applicable)			
Note: Bluetooth LE test results see CTC advanced test report 1 1820/21 01 02						

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SAR test exclusion according to KDB447498 (General RF Exposure Guidance v06)

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 ≤ 50mm

(Threshold_{1-g;10-g}) × $d_{seperation} / f^{0.5}$

where

Threshold1-g;10-g is 3 for 1-g; 7.5 for 10-gdseperationis the min. test separation distance; 5mm is used if the distance is lessfis the RF channel transmit frequency

The table below gives the calculated maximal power that could be used for source based time averaged conducted or radiated power, adjusted for tune up tolerance. If this is at or below the calculated value the DUT is exempted from SAR evaluation.

frequency	d _{separation}	Threshold _{1-g}	Powerlimit	P _{max-de}	eclared	Exclusion
[MHz]	[mm]	rmcshold _{1-g}	[mW]	[dBm]	[mW]	Exclusion
2450.00	5	3	9.58	5.30	3.39	yes

SAR test exclusion according to RSS-102 Issue 5 Section 2.5.1/Table 1

The table below gives the calculated maximal power that could be used for source based time averaged conducted or radiated power, adjusted for tune up tolerance. If this is at or below the calculated value the DUT is exempted from SAR evaluation.

frequency	d _{separation}	tissue volume	Powerlimit	P _{max-}	declared	Exclusion
[MHz]	[mm]	lissue volume	[mW]	[dBm]	[mW]	EXClusion
2450.00	5	1 g	4.00	5.30	3.39	yes

The limits above are defined for body worn application and therefore cover all use cases.