



BNetzA-CAB-02/21-102

Radio Communications & EMC

## 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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Lah Manager	Testing Manager			

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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 1-1830/21-01-03

## 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<sub>1-g;10-g</sub> )  $\times$  d<sub>seperation</sub> / f <sup>0.5</sup>

where

Threshold<sub>1-g;10-g</sub> is 3 for 1-g; 7.5 for 10-g

d<sub>seperation</sub> is the min. test separation distance; 5mm is used if the distance is less

f is 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 <sub>separation</sub>	Threshold <sub>1-g</sub>	Powerlimit	P <sub>max-declared</sub>		Exclusion
[MHz]	[mm]	TTTC3TTOIQ <sub>1-g</sub>	[mW]	[dBm]	[mW]	LXCIUSION
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 <sub>separation</sub>	tissue volume	Powerlimit	P <sub>max-declared</sub>		Exclusion
[MHz]	[mm]		[mW]	[dBm]	[mW]	LXCIGSIOIT
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.