







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

Report identification number: 1-3290/21-01-04 Exclusion (FCC_ISED)

contains the module with the following certification numbers			
FCC ID	2AD85-C21R		
ISED number	22600-C21R		
HVIN (Hardware Version Identification Number)	C21R		
PMN (Product Marketing Name)	Chipolo CARD Spot		
FVIN (Firmware Version Identification Number)	N6-1.00		
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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Lab Manager	Testing Manager
Radio Communications & EMC	Radio Communications & EMC

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EUT technologies:

Technologies:	Max. rated power: (AVG)	Max. measured: (AVG)
Bluetooth LE	Declared: max 4 dBm	3.3 dBm (EIRP)

NOTE: Detailed test results in CTC advanced GmbH report 1-3290/21-01-03.

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_{1-g;10-g}) \times d_{seperation} / f ^{0.5}

where

Threshold_{1-g;10-g} is 3 for 1-g; 7.5 for 10-g

d_{seperation} 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 _{separation}	Threshold _{1-q}	Powerlimit	P _{max-d}	eclared	Exclusion
[MHz]	[mm]	THESHOIU1-g	[mW]	[dBm]	[mW]	LACIUSION
2450.00	5	3	9.58	4.00	2.51	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]	tissue volume	[mW]	[dBm]	[mW]	LXCIUSION
2450.00	5	1 g	4.00	4.00	2.51	yes

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