



BNetzA-CAB-02/21-102

Radio Communications & EMC

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

Report identification number: 1-2703/21-01-06 Exclusion (FCC_ISED)

contains the module with the following certification numbers				
FCC ID	2AXDT-RFM005			
ISED number	26428-RFM005			
HVIN (Hardware Version Identification Number)	RFM005			
PMN (Product Marketing Name)	RF Module 5			
FVIN (Firmware Version Identification Number)	-/-			
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:					
Alexander Hnatovskiy	Marco Scigliano				

Radio Communications & EMC



EUT technologies:

Technologies:	Max. EIRP:		
Bluetooth 2.4 GHz*	5.9 dBm		
MI coupling at 3.27 MHz**			

*) Test results taken from CTC advanced GmbH report 1-2703/21-01-05

Max. measured conducted output power: 5.9 dBm

Max. Ant Gain: -4.0 dBi

**) exempt from routine evaluation for FCC / measured in CTC advanced GmbH 1-2703/21-01-06 (Nerve Stimulation) report

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.

ı	frequency	d _{separation}	Threshold _{1-g}	Powerlimit	P _{max-declared}		Exclusion
ı	[MHz]	[mm]		[mW]	[dBm]	[mW]	LXCIUSIOII
	2450.00	5	3	9.58	5.90	3.89	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.

ı	frequency	d _{separation}	tissue volume	Powerlimit	P _{max} -	declared	Exclusion
ı	[MHz]	[mm]	tissue voiume	[mW]	[dBm]	[mW]	LXCIUSIOII
	2450.00	5	1 g	4.00	5.90	3.89	yes

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