





BNetzA-CAB-02/21-102

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

Report identification number: 1-1479/20-01-09 Exclusion (FCC_ISED)

contains the module with the following certification numbers				
FCC ID	T7V1781			
ISED number	216Q-1781			
HVIN (Hardware Version Identification Number)	ENW89857A1KF, ENW89857A2KF			
PMN (Product Marketing Name)	PAN1781			
FVIN (Firmware Version Identification Number)	S113, S112, S140			
HMN (Host Marketing Name)	-/-			

This report is electronically signed and valid without handwriting 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 6.1 dBm	2.0 dBi	0 dB (if applicable)

Note:

Bluetooth LE test results see CTC advanced test report 1-1479/20-01-06

Max. Peak conducted measured: 6.1dBm, Duty Cycle: 100.0%

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]	TrileSholu _{1-g}	[mW]	[dBm]	[mW]	LXCIUSION
2450.00	5	3	9.58	6.10	4.07	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]		[mW]	[dBm]	[mW]	LXCIUSION
2450.00	10	1 g	7.00	8.10	6.46	yes

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