

SAR Test exclusion documentation according to FCC KDB 447498

Report identification number: 1-2944/21-01-11 Exclusion (FCC)

contains the module with the following certification numbers	
FCC ID	T7V1782

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
Lab Manager
Radio Communications & EMC

Marco Scigliano
Testing Manager
Radio Communications & EMC

EUT technologies:

Technologies	Max. rated power: (AVG)	Max. gain	Max. EIRP for RF Exposure
Bluetooth LE	meas. 7.49 dBm	meas. 1.0 dBi	8.0 dBm ¹⁾ + 1.0 dBi = 9 dBm

Note: Bluetooth LE test results see CTC advanced test report 1-2944/21-01-06
(Max. gain on page 21, max. measured cond. output power on page 26)

¹⁾ Max. output power (typical) according WM PAN1782 Datasheet

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

$$(\text{Threshold}_{1-g;10-g}) \times d_{\text{separation}} / f^{0.5}$$

where

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

d_{separation} 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 [MHz]	d _{separation} [mm]	Threshold _{1-g}	Powerlimit [mW]	P _{max-declared}		Exclusion
				[dBm]	[mW]	
2450.00	5	3	9.58	9.00	7.94	yes

The limit above is defined for body worn application and therefore cover all use cases.