

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

**Report identification number: 1-1494/20-01-06-A Exclusion (FCC\_ISED)**

contains the module with the following certification numbers	
FCC ID	2AXDT-MBR3D
ISED number	26428-MBR3D
HVIN (Hardware Version Identification Number)	MBR3D
PMN (Product Marketing Name)	MBR3D
FVIN (Firmware Version Identification Number)	SW3.0.12
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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**EUT technologies:**

Technologies:	Max. rated power: (AVG)	Max. gain:	Min. pathloss:
Bluetooth LE 2450 MHz	< 0.0 dBm / 1 mW	< 0 dBi	0 dB (if applicable)
Proprietary 10.6 MHz)*	--	--	0 dB (if applicable)

**Note:** Declared max taken from CTC Advanced GmbH report 1-1494/20-01-09-A

)\* exempt from routine evaluation

test results taken from CTC advanced test report 1-1494/20-01-08-A (page18):

36.7 dBµV @3m equals an EIRP of -58.53 dBm

**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

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

where

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

d<sub>separation</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 [MHz]	d <sub>separation</sub> [mm]	Threshold <sub>1-g</sub>	Powerlimit [mW]	P <sub>max-declared</sub>		Exclusion
				[dBm]	[mW]	
2450.00	5	3	9.58	0.00	1.00	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 [MHz]	d <sub>separation</sub> [mm]	tissue volume	Powerlimit [mW]	P <sub>max-declared</sub>		Exclusion
				[dBm]	[mW]	
2450.00	5	1 g	4.00	0.00	1.00	yes

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