



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

Report identification number: 1-3826/22-01-07 Exclusion (FCC_ISED)

contains the module with the following certification numbers	
FCC ID	2AAJCBR22
ISED number	24305-BR22
HVIN (Hardware Version Identification Number)	BR22
PMN (Product Marketing Name)	MQB37W
FVIN (Firmware Version Identification Number)	-/-
HMN (Host Marketing Name)	-/-

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EUT technologies:

Technologies:	Max. avg. EIRP
433 MHz Proprietary	-14.43 dBm (= 36.1µW)

NOTE: Test results taken from CTC Advanced GmbH report 1-3826/22-01-03
Max allowed field strength of 80.8 dBµV/m@3m EIRP used for calculation as worst case.

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_{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]	
433.00	5	3	22.80	-14.43	0.04	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 _{separation} [mm]	tissue volume	Powerlimit [mW]	P _{max-declared}		Exclusion
				[dBm]	[mW]	
433.00	5	1 g	52.00	-14.43	0.04	yes

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