







## SAR Test exclusion documentation according to FCC KDB 447498, RSS-102 and EN 62479

Report identification number: 1-1120/16-01-13-B

Certification numbers and labeling requirements			
FCC ID	W4G-RMI6		
IC number	8167A-RMI6		
HVIN (Hardware Version Identification Number)	PCD0142-0000		
PMN (Product Marketing Name)	RMI6		
FVIN (Firmware Version Identification Number)	D6		
HMN (Host Marketing Name)	-/-		

This test 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 authorized:			
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Radio Communications & EMC



**EUT technologies:** 

Technologies:	Max. rated power:	Max. Gain:	Min. pathloss:	
ISM 2.4 GHz DSSS	Declared: 10 dBm	0.2 dBi	0 dB (if applicable)	
(proprietary standard)	Declared. 10 dBm	0.2 dBl		
ISM 2.4 GHz FHSS	Declared peak: 20 dBm	0.2 dBi	0 dP (if applicable)	
(proprietary standard)	Averaged: -2.6 dBm )*	0.2 dBi	0 dB (if applicable)	

)\* See CTC advanced report 1-1120/16-01-03-F section 11.4 (peak value reduced by pulse width/100ms) Worst case of both DSSS and FHSS modes used for calculation below.

## SAR test exclusion according to KDB447498 (General RF Exposure Guidance)

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<sub>1-g;10-g</sub>)  $\times$  d<sub>seperation</sub> / f <sup>0.5</sup>

where

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

d<sub>seperation</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.

l	f in [MHz]	d <sub>separation</sub> [mm]	Threshold <sub>1-g</sub>	Powerlimit [mW]	P <sub>max-declared</sub> [mW]	Exclusion
ĺ	2450.00	10	3	19.17	10.47	yes
	2450.00	5	7.5	23.96	10.47	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.

f in [MHz]	d <sub>separation</sub> [mm]	tissue volume	Powerlimit [mW]	P <sub>max-declared</sub> [mW]	Exclusion
2450.00	15	1 g	15.00	10.47	yes
2450.00	10	10 g	14.00	10.47	yes

(factor 2.5 for hands/wrists/limbs applied)

For hand-held devices where the 10 gram SAR value applies, the device is exempted from rountine evaluation (test exclusion) if the final host justify a min. separation distance of **1 cm** from the radiating elements to the hands/wrists/limbs.

For body-worn devices where the 1 gram SAR value applies, the device is exempted from rountine evaluation (test exclusion), if the final host justify a min. separation distance of **1.5 cm** from the radiating elements to the human body.

## SAR test exclusion according to EN 62479

Compliance is given according to EN 62479 because the average output power of the DUT is smaller than 20 mW.