

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

Report identification number: 1-2942/16-01-05-A

Certification numbers and labeling requirements	
FCC ID	X46KF00
IC number	8816A-KF00
HVIN (Hardware Version Identification Number)	KF611, KF641
PMN (Product Marketing Name)	KF611, KF641
FVIN (Firmware Version Identification Number)	-/-
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:

Thomas Vogler
 Lab Manager
 Radio Communications & EMC

EUT technologies:

Technologies:	Max. power (declared)	Max. gain:	Min. pathloss:
ISM 902-928 MHz (Proprietary FHSS)	12 dBm = 15.8 mW	-10.3 dBi	-- (if applicable)

Note:

Test results see CETECOM test report 1-2942/16-01-02

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 $\leq 50\text{mm}$

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

where

$\text{Threshold}_{1\text{-g};10\text{-g}}$ is 3 for 1-g; 7.5 for 10-g

$d_{\text{separation}}$ 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.

f in [MHz]	$d_{\text{separation}}$ [mm]	$\text{Threshold}_{1\text{-g}}$	Powerlimit [mW]	$P_{\text{max-declared}}$ [mW]	Exclusion
928.00	5	7.5	38.93	15.84	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]	$d_{\text{separation}}$ [mm]	tissue volume	Powerlimit [mW]	$P_{\text{max-declared}}$ [mW]	Exclusion
928.00	5	1 g	40.30	15.84	yes