



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

Report identification number: 1-1119/16-01-16

Certification numbers and labeling requirements			
FCC ID	SGI-WL402		
IC number	267AB-WL402		
HVIN (Hardware Version Identification Number)	easyTek B, SmartConnect		
PMN (Product Marketing Name)	easyTek B, SmartConnect		
FVIN (Firmware Version Identification Number)	-/-		
HMN (Host Marketing Name)	-/-		

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Document authorized:			
Thomas Vogler			

Lab Manager Radio Communications & EMC



#### **EUT technologies:**

Technologies:	Max. power: (AVG)	Max. gain:	
Bluetooth Low Energy Declared: 4 dBm conducted )*		Declared: 2.6 dBm EIRP )*	
3.28 MHz module )**		Fieldstrength 45.1 dBµV/m @ 3 m	

<sup>)\*</sup> see operational description

## 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.

f in [MHz]	d <sub>separation</sub> [mm]	Threshold <sub>1-g</sub>	Powerlimit [mW]	P <sub>max-declared</sub> [mW]	Exclusion
2450,00	5	3	9,58	2,50	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	5	1 g	4,00	2,50	yes

#### SAR test exclusion according to EN 62479

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

<sup>)\*\*</sup> exempted from routine evaluation for FCC, for RSS-102 see additional test report of the frequency range 3 kHz – 10 MHz