

## RF Exposure Requirements

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### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: Suretex Limited  
Address of applicant: 193/68 Lake Rajada Office Complex, 17th Floor,  
Ratchadapisek Road, Klongtoey, Thailand 10110

Manufacturer: SHENZHEN SHAKI INDUSTRIAL CO., LTD  
Address of manufacturer: 1/F, Block #5, Hua Feng Industry Park, Datianyang,  
Dongfang, Songgang Town, Bao'An District, Shen  
Zhen, China

#### General Description of EUT

Product Name: SKYN Thriller  
Trade Name: /  
Model No.: 510154  
Adding Model(s): /  
Rated Voltage: DC 3.7V from Battery  
Power Adapter Model: /  
Serial number: S-001  
FCC ID: 2A3YG-510154

Technical Characteristics of EUT	
Bluetooth Version:	BLE
Frequency Range:	2402-2480MHz
RF Output Power:	-3.54dBm
Data Rate:	1Mbps
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	3.39dBi

## 1.2 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, the following RF exposure evaluation shall to demonstrate RF exposure compliance.

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$

Where

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

## 1.3 Calculation Method

### Bluetooth

Tx frequency range: 2402~2480MHz

Min. test separation distance: 5mm

Maximum Tune-up Conducted Output Power: -3dBm

RF channel transmit frequency: 2402MHz

Result: 0.1554

Limit: 3.0

So the transmitter complies with the RF exposure requirements and the SAR is not required.