

# RF Exposure Requirements

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

### Client Information

Applicant: Chongqing Qinchengxing Technology Co.,Ltd  
Address of applicant: No.868 Chuangxin Avenue, Zitong Street, Tongnan District, Chongqing, China

Manufacturer: Chongqing Qinchengxing Technology Co.,Ltd  
Address of manufacturer: No.868 Chuangxin Avenue, Zitong Street, Tongnan District, Chongqing, China

### General Description of EUT

Product Name: Autodolly  
Trade Name: /  
Model No.: L4X  
Adding Model(s): /  
Rated Voltage: DC 3.7V from Battery  
Power Adapter Model: /  
Serial number: S01  
FCC ID: 2A3AV-L4X

Technical Characteristics of EUT	
Frequency Range:	2405MHz-2475MHz
Max. Field Strength:	102.37dBuV/m
Modulation:	GFSK
Antenna Type:	PCB
Antenna Gain:	2.24dBi

## 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**

Tx frequency range: 2405~2475MHz

Min. test separation distance: 5mm

Max. Field Strength: 102.37dBuV/m

Max Power: 7.07

RF channel transmit frequency: 2405MHz

Result: 1.5797

Limit: 3.0

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

Remark:  $EIRP (dBm) = E (dBuV/m) - 95.3$