

## RF Exposure Requirements

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

#### Client Information

Applicant: Shenzhen Qiluoxiang Technology Co., Ltd.  
Address of applicant: Block A, Xintianxia Bairuida Building, Vanke City Community, Bantian Street, Longgang District, Shenzhen

Manufacturer: Shenzhen Qiluoxiang Technology Co., Ltd.  
Address of manufacturer: Block A, Xintianxia Bairuida Building, Vanke City Community, Bantian Street, Longgang District, Shenzhen

| General Description of EUT |                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| Product Name:              | Upgraded 7 inch Standard Car Stereo                                                                               |
| Brand Name:                | Hieha                                                                                                             |
| Model No.:                 | 7023B                                                                                                             |
| Adding Model(s):           | CP01,CP07,CP08,CP09,CP11,CP12,CP13,CP17,CP21,CP28,CP30,CP50,CP68,SWM-N8,H901,FC009,CZ01, CZ02,CZ05,CZ07,CZ08,CZ09 |
| Rated Voltage:             | DC 12V                                                                                                            |
| Power Adapter:             | /                                                                                                                 |
| Software Version:          | /                                                                                                                 |
| Hardware Version:          | /                                                                                                                 |
| Serial Number:             | 975612354A115                                                                                                     |
| FCC ID:                    | 2A4VA7023B                                                                                                        |

| Technical Characteristics of EUT |                      |
|----------------------------------|----------------------|
| Bluetooth Version:               | V5.0 BLE             |
| Frequency Range:                 | 2402-2480MHz         |
| RF Output Power:                 | 4.367dBm (Conducted) |
| Data Rate:                       | 1Mbps                |
| Modulation:                      | GFSK                 |
| Quantity of Channels:            | 40                   |
| Channel Separation:              | 2MHz                 |
| Type of Antenna:                 | PCB                  |
| Antenna Gain:                    | 0.68dBi              |

## 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 Conducted Output Power: 4.367dBm

RF channel transmit frequency: 2440MHz

Result: 0.85

Limit: 3.0

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