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

### **Client Information**

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

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

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.