

TEST REPORT

Product Name	:	Bluetooth voice remote control
Brand Mark	:	N/A
Model No.	:	YDX-159
Extension model	:	7601-Z2ES00-02440001, 7601-Z2ES02-03440001, 7601-Z5S032-01440001, 7601-Z7S022-03440001, 7601-Z7S022-01440001, 7601-Z6S032-01440001, 7601-Z1S012-00440001, 7601-Z2ES00-03440001
Report Number	:	BLA-EMC-202203-A6003
FCC ID	:	2A6A2-YDX-159
Date of Sample Receipt	:	2022/3/10
Date of Test	:	2022/3/10 to 2022/4/2
Date of Issue	:	2022/4/2
Test Standard	:	47 CFR Part 1.1307, Part 2.1093, KDB 447498
Test Result	:	Pass

Prepared for:

Yi dong xing (Shenzhen) Technology Co., LTD
1.2 Floor, NO 4 Building , No.2 fuqiao industry area, qiaotou
Community, fuyong Street, baoan District ,Shenzhen, P.R.China

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China
TEL: +86-755-23059481

Compiled by:

Jozu
Blue zheng

Approved by:

Review by:

Date:



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/4/2	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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2 GENERAL INFORMATION

Applicant	Yi dong xing (Shenzhen) Technology Co., LTD
Address	1、2 Floor,NO 4 Building ,No.2 fuqiao industry area, qiaotou Community,fuyong Street, baoan District ,Shenzhen, P.R.China
Manufacturer	Yi dong xing (Shenzhen) Technology Co., LTD
Address	1、2 Floor,NO 4 Building ,No.2 fuqiao industry area, qiaotou Community,fuyong Street, baoan District ,Shenzhen, P.R.China
Factory	Yi dong xing (Shenzhen) Technology Co., LTD
Address	1、2 Floor,NO 4 Building ,No.2 fuqiao industry area, qiaotou Community,fuyong Street, baoan District ,Shenzhen, P.R.China
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Note	All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose.

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	YDX-159-LYD-V1.1
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 LIMITS

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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 is applied to determine SAR test exclusion

5.3 EUT RF EXPOSURE

Operational		Mode: BLE				
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	-8.083	± 1	-7.083	0.20	0.06	3.0
2442 MHz	-7.486	± 1	-6.486	0.22	0.07	
2480 MHz	-5.828	± 1	-4.828	0.33	0.10	

Conclusion: the calculated value ≤ 3.0 , SAR is exempted.

----END OF REPORT----

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