

# TEST REPORT

**Product Name** : Bluetooth Speaker  
**Brand Mark** : YATIDE  
**Model No.** : YATIDE-SP01  
**FCC ID** : 2A3Z7-YATIDE-SP01  
**Report Number** : BLA-EMC-202112-A4303  
**Date of Sample Receipt** : 2021/12/9  
**Date of Test** : 2021/12/9 to 2021/12/17  
**Date of Issue** : 2021/12/17  
**Test Standard** : 47 CFR Part 1.1307, Part 2.1093, KDB  
447498  
**Test Result** : Pass

Prepared for:

**Shenzhen Nobel Technology Co.Ltd**  
**205, No.257 Shangwu Avenue, Shangwu Community, Shiyan Street,**  
**Baoan District, Shenzhen**

Prepared by:

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Date:

2021/12/17



## REPORT REVISE RECORD

Version No.	Date	Description
00	2021/12/17	Original

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## TABLE OF CONTENTS

<b>1</b>	<b>TEST SUMMARY.....</b>	<b>4</b>
<b>2</b>	<b>GENERAL INFORMATION.....</b>	<b>5</b>
<b>3</b>	<b>GENERAL DESCRIPTION OF E.U.T.....</b>	<b>5</b>
<b>4</b>	<b>LABORATORY LOCATION.....</b>	<b>6</b>
<b>5</b>	<b>RF EXPOSURE COMPLIANCE REQUIREMENT.....</b>	<b>7</b>
5.1	STANDARD REQUIREMENT.....	7
5.2	LIMITS.....	7
5.3	EUT RF EXPOSURE.....	7

## 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

## 2 GENERAL INFORMATION

<b>Applicant</b>	Shenzhen Nobel Technology Co.Ltd
<b>Address</b>	205, No.257 Shangwu Avenue, Shangwu Community, Shiyan Street, Baoan District, Shenzhen
<b>Manufacturer</b>	Shenzhen Nobel Technology Co.Ltd
<b>Address</b>	205, No.257 Shangwu Avenue, Shangwu Community, Shiyan Street, Baoan District, Shenzhen
<b>Factory</b>	Crown Tech Electronic Corporation
<b>Address</b>	2F, No.11 Fenghuang road, Xikeng community, Henggang street, Longgang district, Shenzhen, Guangdong - China.
<b>Product Name</b>	Bluetooth Speaker
<b>Test Model No.</b>	YATIDE-SP01

## 3 GENERAL DESCRIPTION OF E.U.T.

<b>Hardware Version</b>	Main: K-BT1901C MAIN REV1.8 Key: K-BT1901 KEY
<b>Software Version</b>	K_BT1901C_V6_210808
<b>Operation Frequency:</b>	2402MHz-2480MHz
<b>Modulation Type:</b>	GFSK, pi/4DQPSK
<b>Channel Spacing:</b>	1MHz
<b>Number of Channels:</b>	79
<b>Antenna Type:</b>	PCB Antenna
<b>Antenna Gain:</b>	-0.58dBi(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,  
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Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673  
No tests were sub-contracted.

## 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  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

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

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion

### 5.3 EUT RF EXPOSURE

Operational Mode: BT(pi/4DQPSK)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	0.773	±1	1.773	1.50	0.47	3.0
2441 MHz	0.892	±1	1.892	1.55	0.48	
2480 MHz	0.975	±1	1.975	1.58	0.50	
Conclusion: the calculated value ≤3.0. SAR is exempted.						

**----END OF REPORT----**

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