

# 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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2021/12/17



## REPORT REVISE RECORD

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

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## 1 TEST SUMMARY

| Test item   | Test Requirement                                  | Test Method           | Class/Severity     | Result |
|-------------|---------------------------------------------------|-----------------------|--------------------|--------|
| RF Exposure | 47 CFR Part 1.1307,<br>Part 2.1093, KDB<br>447498 | CFR 47 Part<br>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<br>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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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:

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