

TEST REPORT

Product Name : Bluetooth Karaoke & Microphone with EZ Link
+ Technology - Karaoke
Model Number : Di-565, M1 - 565 M2M3M4M5M6M7M8M9M10
(M1 - M10, please refer to model no. table)
FCC ID : EMO565A

Prepared for : SDI Technologies Inc.
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1. TEST RESULT CERTIFICATION

Applicant : SDI Technologies Inc.
Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.
Manufacturer : eKids, LLC. / KIDDESIGNS INC.
Address : 1299, Main Street, Rahway, NJ 07065, U.S.A.
Factory : DongGuan Synst Electronics Co., Ltd.
Address : No. 20, Fudong Road, Houjie Town, Dong-Guang City, Guangdong Province, China
EUT : Bluetooth Karaoke & Microphone with EZ Link + Technology - Karaoke
Model Name : Di-565, M1 – 565 M2M3M4M5M6M7M8M9M10 (M1 – M10, please refer to model no. table)
Trademark : eKids, iHome


Measurement Procedure Used:

| APPLICABLE STANDARDS | |
|-----------------------|-------------|
| STANDARD | TEST RESULT |
| § 15.247(i), § 2.1093 | PASS |

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

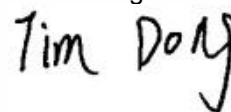
The test results of this report relate only to the tested sample identified in this report

Date of Test :



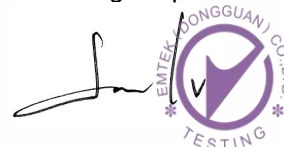
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Xia Yang /Editor



Reviewer :

Tim Dong/ Supervisor



Approve & Authorized Signer :

Sam Lv / Manager

Modified History

| Version | Report No. | Revision Date | Summary |
|---------|----------------------|---------------|-----------------|
| | EDG2303300218E00402R | / | Original Report |
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2. EUT Specification

| Characteristics | Description |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product: | Bluetooth Karaoke & Microphone with EZ Link + Technology - Karaoke |
| Model Number: | Di-565, M1 – 565 M2M3M4M5M6M7M8M9M10 (M1 – M10, please refer to model no. table) All products are the same, only the model number and color of appearance are different Here we selected Di-565 for all the test |
| Sample: | 1# |
| Device Type: | Bluetooth V5.1 |
| Data Rate: | 1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation |
| Modulation: | GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Operating Frequency Range(s) : | 2402-2480MHz |
| Number of Channels: | 79 channels |
| Transmit Power Max: | 4.61 dBm(0.002891W) |
| Antenna Gain: | -0.58 dBi |
| Power supply: | DC 5V from USB, DC 3.7V from battery |
| Evaluation applied: | <input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation |

Model: M_1 – 565 $M_2M_3M_4M_5M_6M_7M_8M_9M_{10}$ ($M_1 - M_{10}$, please refer to model no. table)

Model no. table

| Part of model # | M_1 | M_2 | M_3 | M_4 | M_5 | M_6 | M_7 | M_8 | M_9 | M_{10} |
|--------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Number of digit(s) | 2 to 3 | 2 | 1 | 1 | 1 to 2 | 1 | 1 to 3 | 1 to 4 | 2 | 1 |
| Description | 2 to 3 digits alphabets combination by "a" – "z" for brand | 1 to 2 digits alphabets combination by "a" – "z" special character version Or blank | "." Or blank | "U" for Europe version Or blank | "E" for English content Or "F" for English & French Or "3" for 3 language version Or "5" for 5 languages version Or "11" for Europe version with 11 languages | "X" for no sound effect Or "E" for having sound effect or speech effect Or "M" for having sound effect (Music) | "0" – "9" for year version Or "V0" – "V99" for year version | "M" for Movie version brand Or blank | "AK" for Walmart exclusive Or "AP" for Apple exclusive Or "KS" for Kohl's exclusive Or "TG" for Target exclusive Or blank | "I" for inner carton required Or "z" for direct to consumer on-line packaging Or "OL" for Amazon packaging Or blank |

3. Test Requirement

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain: -0.58 dBi

When a single module works, the measurement results are as follows:

BT1

| Transmit Frequency (MHz) | Mode | Measured Power (dBm) | E.I.R.P (dBm) | Tune upPower (dBm) | Max tune up power (dBm) | Calculation Result |
|--------------------------|-----------|----------------------|---------------|--------------------|-------------------------|--------------------|
| 2402 | GFSK | 3.44 | 2.86 | 3±1 | 4 | 0.7786038 |
| 2441 | GFSK | 3.63 | 3.05 | 3±1 | 4 | 0.7848992 |
| 2480 | GFSK | 3.26 | 2.68 | 3±1 | 4 | 0.7911445 |
| 2402 | Π/4-DQPSK | 4.15 | 3.57 | 4±1 | 5 | 0.9802041 |
| 2441 | Π/4-DQPSK | 4.28 | 3.70 | 4±1 | 5 | 0.9881295 |
| 2480 | Π/4-DQPSK | 3.89 | 3.31 | 3±1 | 4 | 0.7911445 |
| 2402 | 8DPSK | 4.43 | 3.85 | 4±1 | 5 | 0.9802041 |
| 2441 | 8DPSK | 4.61 | 4.03 | 4±1 | 5 | 0.9881295 |
| 2480 | 8DPSK | 4.18 | 3.60 | 4±1 | 5 | 0.9959920 |

According to KDB 447498, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***