



TEST REPORT

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| Report Number. : | 90051-24-72-24-PP003 | |
| Date of issue..... : | 2023-12-28 | |
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| Manufacturer's name : | Guangzhou Rikiki Tech CO., LTD | |
| Address..... : | B2 of Greenland Central Plaza, Huangpu District, GZ | |
| Factory's name : | Guangzhou Rikiki Tech CO., LTD | |
| Address..... : | B2 of Greenland Central Plaza, Huangpu District, GZ | |
| Standard(s) : | §15.247(i), §2.1093 | |
| Test item description : | Wireless earbuds | |
| Trade Mark : | N/A | |
| Model/Type reference : | Y113S, GUTWSHDGKEEK, GUTWSHDGKEED, GUTWSHDGKEEP, GUTWSHDGKEEU, GUTWSHDGKTEK, GUTWSHDGKTED, GUTWSHDGKTEP, GUTWSHDGKTEU, HKTWSHDGKEP, HKTWSHDGKEU, HKTWSHDGKEQ, HKTWSHDGKEK, HELLO KITTY TWS | |
| FCC ID : | 2A7J2HKTWS | |
| Date of receipt of test item..... : | 2023-12-01 | |
| Date (s) of performance of test: | 2023-12-12 to 2023-12-27 | |
| Summary of Test Results : | Pass | |

The Summary of Test Results based on a technical opinion belongs to the standard(s).

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Modified History

| Report No. | Revision Date | Summary |
|----------------------|---------------|-----------------|
| 90051-24-72-24-PP003 | 2023-12-28 | Original Report |
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1. EUT Specification

| Characteristics | Description |
|---------------------------------------|---|
| Product: | Wireless earbuds |
| Model Number: | Y113S, GUTWSHDGKEEK, GUTWSHDGKEED, GUTWSHDGKEEP, GUTWSHDGKEEU, GUTWSHDGKTEK, GUTWSHDGKTED, GUTWSHDGKTEP, GUTWSHDGKTEU, HKTWSHDGKEP, HKTWSHDGKEU, HKTWSHDGKEQ, HKTWSHDGKEK, HELLO KITTY TWS (All models are identical except for the model name and color; All tests were performed on model Y113S) |
| Sample: | 1# |
| Device Type: | Bluetooth V5.3 |
| Data Rate: | DSS: 1Mbps for GFSK modulation 2Mbps for pi/4-DQPSK modulation 3Mbps for 8DPSK modulation DTS: 1Mbps or 2Mbps for GFSK modulation |
| Modulation: | DSS: GFSK, pi/4-DQPSK, 8DPSK DTS: GFSK |
| Operating Frequency Range(s) : | 2402-2480MHz |
| Number of Channels: | DSS: 79 channels DTS: 40 channels |
| Transmit Power Max: | DSS: 0.22 dBm DTS: -2.59 dBm |
| Antenna Gain: | 2.7 dBi |
| Power supply: | Input: DC 5V Battery Capacity: 3.7V 30mAh Charging box: DC 3.7V 230mAh |
| Evaluation applied: | <input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation |

2. 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_{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.

3. Measurement Result

| Transmit Frequency(MHz) | Mode | Measured Power (dBm) | Tune upPower (dBm) | Max tune up power(dBm) | Calculation Result | 1-g SAR |
|-------------------------|------------|----------------------|--------------------|------------------------|--------------------|---------|
| 2402 | GFSK | -2.44 | -3±1 | -2 | 0.195576 | 3 |
| 2441 | GFSK | -2.50 | -3±1 | -2 | 0.197158 | 3 |
| 2480 | GFSK | -2.28 | -3±1 | -2 | 0.198727 | 3 |
| 2402 | pi/4-DQPSK | -0.48 | -1±1 | 0 | 0.309968 | 3 |
| 2441 | pi/4-DQPSK | -0.41 | -1±1 | 0 | 0.312474 | 3 |
| 2480 | pi/4-DQPSK | -0.25 | 0±1 | 1 | 0.396512 | 3 |
| 2402 | 8DPSK | 0.00 | 0±1 | 1 | 0.390226 | 3 |
| 2441 | 8DPSK | -0.03 | 0±1 | 1 | 0.393381 | 3 |
| 2480 | 8DPSK | 0.22 | 0±1 | 1 | 0.396512 | 3 |
| 2402 | BLE(1Mbps) | -2.94 | -3±1 | -2 | 0.195576 | 3 |
| 2440 | BLE(1Mbps) | -2.67 | -3±1 | -2 | 0.197117 | 3 |
| 2480 | BLE(1Mbps) | -2.59 | -3±1 | -2 | 0.198727 | 3 |
| 2402 | BLE(2Mbps) | -3.00 | -3±1 | -2 | 0.195576 | 3 |
| 2440 | BLE(2Mbps) | -2.92 | -3±1 | -2 | 0.197117 | 3 |
| 2480 | BLE(2Mbps) | -2.75 | -3±1 | -2 | 0.198727 | 3 |

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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