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RF Exposure Evaluation Report

Report No.: CQASZ20211001783E
Applicant: GANZHOU DEHUIDA TECHNOLOGY CO., LTD
Address of Applicant: Dehuida Science and Technology Park, Huoyanshan Road, Anyuan District, Ganzhou City, Jiangxi Province. P.R China.
Equipment Under Test (EUT)
EUT Name: MED LED Speaker
Test Model No.: AAGRY100077176
Model No.: AAGRY100077176, AALAV100077176
Brand Name: onn.
FCC ID: 2AO5X-BM2020
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2021-10-19
Date of Test: 2021-10-19 to 2021-10-28
Date of Issue: 2021-11-04
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou

(Lewis Zhou)

Reviewed By: Rock Huang

(Rock Huang)

Approved By: Jack ai

(Jack ai)



1 Version

Revision History Of Report

| Report No. | Version | Description | Issue Date |
|-------------------|---------|----------------|------------|
| CQASZ20211001783E | Rev.01 | Initial report | 2021-11-04 |

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3 General Information

3.1 Client Information

| | |
|--------------------------|---|
| Applicant: | GANZHOU DEHUIDA TECHNOLOGY CO., LTD |
| Address of Applicant: | Dehuida Science and Technology Park, Huoyanshan Road, Anyuan District, Ganzhou City, Jiangxi Province. P.R China. |
| Manufacturer: | GANZHOU DEHUIDA TECHNOLOGY CO., LTD |
| Address of Manufacturer: | Dehuida Science and Technology Park, Huoyanshan Road, Anyuan District, Ganzhou City, Jiangxi Province. P.R China. |
| Factory: | GANZHOU DEHUIDA TECHNOLOGY CO., LTD |
| Address of Factory: | Dehuida Science and Technology Park, Huoyanshan Road, Anyuan District, Ganzhou City, Jiangxi Province. P.R China. |

3.2 General Description of EUT

| | |
|----------------------------------|--|
| Product Name: | MED LED Speaker |
| Model No.: | AAGRY100077176, AALAV100077176 |
| Test Model No | AAGRY100077176 |
| Trade Mark: | onn. |
| EUT Supports Radios application: | Bluetooth mode 2402-2480MHz |
| Hardware Version: | V6.1 |
| Software Version: | 450F |
| Sample Type: | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location |
| EUT Power Supply: | lithium battery:DC3.7V 4000mAh, Charge by DC5.0V |

3.3 General Description of BT

| | | |
|-----------------------|---|-----------|
| Operation Frequency: | 2402MHz~2480MHz | |
| Bluetooth Version: | V5.0 | |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) | |
| Modulation Type: | GFSK, $\pi/4$ DQPSK | |
| Number of Channel: | 79 | |
| Transfer Rate: | 1Mbps/2Mbps | |
| Hopping Channel Type: | Adaptive Frequency Hopping systems | |
| Test Software of EUT: | FCC Assist 1.0.0.2 | |
| Antenna Type: | PCB antenna | |
| Antenna Gain: | BT | -0.58 dBi |

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

4.1.2 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:

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

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

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

4.1.3 EUT RF Exposure

1) For BT

Measurement Data

| GFSK mode | | | | |
|------------------|----------------------------|----------------------------|-----------------------|-------|
| Test channel | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power | |
| | | | (dBm) | (mW) |
| Lowest(2402MHz) | 1.980 | 2.0±1 | 3.0 | 1.995 |
| Middle(2441MHz) | 3.270 | 3.0±1 | 4.0 | 2.512 |
| Highest(2480MHz) | 4.120 | 4.0±1 | 5.0 | 3.162 |
| π/4DQPSK mode | | | | |
| Test channel | Peak Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power | |
| | | | (dBm) | (mW) |
| Lowest(2402MHz) | 2.440 | 2.5±1 | 3.5 | 2.239 |
| Middle(2441MHz) | 3.640 | 3.5±1 | 4.5 | 2.818 |
| Highest(2480MHz) | 4.400 | 4.5±1 | 5.5 | 3.548 |

| Worst case: π/4DQPSK mode | | | | | | |
|---|--|-------------------------------|---------------------------|-------|---------------------|------------------------|
| Channel | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dBm) | Maximum tune- up Power | | Calculated value | Exclusion threshold |
| | | | (dBm) | (mW) | | |
| Lowest (2402MHz) | 2.440 | 2.5±1 | 3.5 | 2.239 | 0.694 | 3.0 |
| Middle (2441MHz) | 3.640 | 3.5±1 | 4.5 | 2.818 | 0.881 | |
| Highest (2480MHz) | 4.400 | 4.5±1 | 5.5 | 3.548 | 1.118 | |
| Conclusion: the calculated value ≤3.0, SAR is exempted. | | | | | | |

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20211001783E