

FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

RE788 WIFI+BLE module

MODEL NUMBER: RE788

FCC ID: 2AYCN-RE788

REPORT NUMBER: 4790363177-6

ISSUE DATE: April 25, 2022

Prepared for

Shenzhen Water World Co., Ltd No. 602, Block B, Digital Building, Garden City, NO. 1079, Nanhai Road, Shekou Subdistrict, Nanshan Shenzhen, Guangdong, China

Prepared by

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REPORT NO.: 4790363177-6

Page 2 of 7

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|---------------|------------|
| V0 | 4/25/2022 | Initial Issue | |

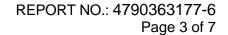




TABLE OF CONTENTS

| 1. | ATTESTATION OF TEST RESULTS | 4 |
|----|------------------------------|---|
| 2. | TEST METHODOLOGY | 5 |
| 3. | FACILITIES AND ACCREDITATION | 5 |
| 1 | REQUIREMENT | 6 |



REPORT NO.: 4790363177-6

Page 4 of 7

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen Water World Co., Ltd

Address: No. 602, Block B, Digital Building, Garden City, NO. 1079, Nanhai

Road, Shekou Subdistrict, Nanshan Shenzhen, Guangdong,

China

Manufacturer Information

Company Name: Shenzhen Water World Co., Ltd

Address: No. 602, Block B, Digital Building, Garden City, NO. 1079, Nanhai

Road, Shekou Subdistrict, Nanshan Shenzhen, Guangdong,

China

EUT Information

Stephen Guo

Laboratory Manager

EUT Name: RE788 WIFI+BLE module

Model: RE788
Sample Received Date: Apr 8, 2022
Sample Status: Normal
Sample ID: 4840067

Date of Tested: Apr 8, 2022 ~ Apr 25, 2022

| APPLICABLE STANDARDS | | | |
|----------------------|--------------|--|--|
| STANDARD | TEST RESULTS | | |
| FCC 47CFR§2.1091 | PASS | | |
| KDB 447498 D01V06 | PASS | | |

| Prepared By: | Checked By: |
|--------------------------------|--------------------------------|
| kebo. zhang. | Shemules |
| Kebo Zhang Project Engineer | Shawn Wen Laboratory Leader |
| Approved By: | |
| Lephenbus | |



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091, KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

| | A2LA (Certificate No.: 4102.01) |
|---------------|---|
| | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| | has been assessed and proved to be in compliance with A2LA. |
| | FCC (FCC Designation No.: CN1187) |
| | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| | Has been recognized to perform compliance testing on equipment subject |
| | to the Commission's Delcaration of Conformity (DoC) and Certification rules |
| | ISED (Company No.: 21320) |
| Accreditation | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| Certificate | has been registered and fully described in a report filed with ISED. |
| Certificate | The Company Number is 21320 and the test lab Conformity Assessment |
| | Body Identifier (CABID) is CN0046. |
| | VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) |
| | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. |
| | has been assessed and proved to be in compliance with VCCI, the |
| | Membership No. is 3793. |
| | Facility Name: |
| | Chamber D, the VCCI registration No. is G-20019 and R-20004 |
| | Shielding Room B, the VCCI registration No. is C-20012 and T-20011 |

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.

REPORT NO.: 4790363177-6 Page 6 of 7



LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR 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.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with. Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

| Frequency Range (MHz) | E-field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/cm²) | Averaging Time E ², H ² or S (Minutes) |
|-----------------------------|----------------------------------|---|----------------------------------|--|
| 0.3 1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34 30 | 824/f | 2.19/f | (180/f ²)* | 30 |
| 30 300 | 27.5 | 0.073 | 0.2 | 30 |
| 300 1500 | | | f/1500 | 30 |
| 1500 100,000 | | | 1.0 | 30 |

CALCULATION METHOD

S=PG/4πR²

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna



REPORT NO.: 4790363177-6

Page 7 of 7

CALCULATED RESULTS

| Worst Case | | | | | |
|------------|--------------|--------------|---------------|---------------------|-------------|
| Maria | Output Power | Antenna Gain | Power Density | Power Density Limit | Test Result |
| Mode | dBm | dBi | mW/cm2 | mW/cm2 | |
| BLE | 6 | 1 | 0.00100 | 1.0 | Complies |

| Worst Case | | | | | |
|------------|--------------|--------------|---------------|---------------------|-------------|
| Mode | Output Power | Antenna Gain | Power Density | Power Density Limit | Test Result |
| | dBm | dBi | mW/cm2 | mW/cm2 | |
| WIFI 2.4G | 17 | 1 | 0. 01255 | 1.0 | Complies |

Note:

- 1. The Power comes from report operation description.
- 2. The EUT cannot support simultaneous emission.
- 3. The minimum separation distance of the device is greater than 20 cm.
- 3. Calculate by WORST-CASE mode.

END OF REPORT