

# TEST REPORT

**Product Name** : S-Storm Max Powerful Waterproof  
Bluetooth Speaker  
**Brand Mark** : SOUL  
**Model No.** : S-STORM MAX  
**Extension Model** : SS66  
**FCC ID** : 2AAWE-SS66  
**Report Number** : BLA-EMC-202110-A2903  
**Date of Sample Receipt** : 2021/10/15  
**Date of Test** : 2021/10/18 to 2021/11/1  
**Date of Issue** : 2021/11/1  
**Test Standard** : 47 CFR Part 1.1307, Part 2.1093, KDB  
447498  
**Test Result** : Pass

Prepared for:

**Soul Electronics Limited**

**Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong**

Prepared by:

**BlueAsia of Technical Services(Shenzhen) Co.,Ltd.**

**Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,  
Shenzhen, Guangdong Province, China**

**TEL: +86-755-23059481**

Compiled by:

*Jozu*

Approved by:

*Blue Zhong*

Review by:

*Sueels*

Date:

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## REPORT REVISE RECORD

| Version No. | Date      | Description |
|-------------|-----------|-------------|
| 00          | 2021/11/1 | Original    |

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## TABLE OF CONTENTS

|          |                                                |          |
|----------|------------------------------------------------|----------|
| <b>1</b> | <b>TEST SUMMARY.....</b>                       | <b>4</b> |
| <b>2</b> | <b>GENERAL INFORMATION.....</b>                | <b>5</b> |
| <b>3</b> | <b>GENERAL DESCRIPTION OF E.U.T.....</b>       | <b>5</b> |
| <b>4</b> | <b>TEST MODE.....</b>                          | <b>6</b> |
| <b>5</b> | <b>LABORATORY LOCATION.....</b>                | <b>6</b> |
| <b>6</b> | <b>RF EXPOSURE COMPLIANCE REQUIREMENT.....</b> | <b>7</b> |
| 6.1      | STANDARD REQUIREMENT.....                      | 7        |
| 6.2      | LIMITS.....                                    | 7        |
| 6.3      | EUT RF EXPOSURE.....                           | 7        |

## 1 TEST SUMMARY

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

## 2 GENERAL INFORMATION

|                       |                                                                       |
|-----------------------|-----------------------------------------------------------------------|
| <b>Applicant</b>      | Soul Electronics Limited                                              |
| <b>Address</b>        | Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong |
| <b>Manufacturer</b>   | Soul Electronics Limited                                              |
| <b>Address</b>        | Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong |
| <b>Factory</b>        | Soul Electronics Limited                                              |
| <b>Address</b>        | Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong |
| <b>Product Name</b>   | S-Storm Max Powerful Waterproof Bluetooth Speaker                     |
| <b>Test Model No.</b> | S-STORM MAX                                                           |

## 3 GENERAL DESCRIPTION OF E.U.T.

|                             |                       |
|-----------------------------|-----------------------|
| <b>Hardware Version</b>     | N/A                   |
| <b>Software Version</b>     | N/A                   |
| <b>Operation Frequency:</b> | 2402MHz-2480MHz       |
| <b>Modulation Type:</b>     | GFSK, p/4DQPSK, 8DPSK |
| <b>Channel Spacing:</b>     | 1MHz                  |
| <b>Number of Channels:</b>  | 79                    |
| <b>Antenna Type:</b>        | PCB Antenna           |
| <b>Antenna Gain:</b>        | 2dBi                  |

#### 4 TEST MODE

| TEST MODE                                                                 | TEST MODE DESCRIPTION             |
|---------------------------------------------------------------------------|-----------------------------------|
| TX                                                                        | Keep the EUT in transmitting mode |
| Remark: Only the data of the worst mode would be recorded in this report. |                                   |

#### 5 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, China  
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673  
No tests were sub-contracted.

## 6 RF EXPOSURE COMPLIANCE REQUIREMENT

### 6.1 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.

### 6.2 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:

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

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

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

### 6.3 EUT RF Exposure

| Operational Mode: EDR (8-DPSK worst case)               |                                           |                        |                       |      |                  |                     |
|---------------------------------------------------------|-------------------------------------------|------------------------|-----------------------|------|------------------|---------------------|
| Channel                                                 | Maximum Peak Conducted Output Power (dBm) | Tune up tolerance (dB) | Maximum tune-up Power |      | Calculated value | Exclusion threshold |
|                                                         |                                           |                        | (dBm)                 | (mW) |                  |                     |
| 2402 MHz                                                | 3.773                                     | ±1                     | 4.773                 | 3.00 | 0.93             | 3.0                 |
| 2441 MHz                                                | 0.006                                     | ±1                     | 1.006                 | 1.26 | 0.39             |                     |
| 2480 MHz                                                | -2.982                                    | ±1                     | -1.982                | 0.63 | 0.20             |                     |
| Conclusion: the calculated value ≤3.0, SAR is exempted. |                                           |                        |                       |      |                  |                     |

**----END OF REPORT----**

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