



**FCC RF EXPOSURE REPORT**

*For*

**BT Speaker**

**MODEL NUMBER: RL56069B4WHBLE, RL56069B4WHBLE-CA,  
RL56069B4WHBLE-C**

**FCC ID: 2AKCY-RL56BBLES**

**REPORT NUMBER: 4789513183-3**

**ISSUE DATE: September 24, 2020**

*Prepared for*

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*Prepared by*

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# 1. ATTESTATION OF TEST RESULTS

## Applicant Information

Company Name: Leedarson Light Co., Ltd.  
Address: Xingtai Industrial Zone, Economic Development Zone, Changtai County, Zhangzhou City, Fujian Province, P.R.China

## Manufacturer Information

Company Name: Leedarson Light Co., Ltd.  
Address: Xingtai Industrial Zone, Economic Development Zone, Changtai County, Zhangzhou City, Fujian Province, P.R.China

## EUT Information

EUT Name: BT Speaker  
Model: RL56069B4WHBLE  
Series Model: RL56069B4WHBLE-CA, RL56069B4WHBLE-C  
Model Difference: All the same only model name different.  
Brand: LEEDARSON  
Sample Received Date: August 3, 2020  
Sample Status: Normal  
  
Sample ID: 3230352  
Date of Tested: August 3~14, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	PASS
KDB-447498 D01 V06	

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b> 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</p>
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Note 1: 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

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



## 4. REQUIREMENT

### LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

Note 1: f = frequency in MHz, \* means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm<sup>2</sup> is available for this EUT.

### MPE CALCULATION METHOD

$$S = PG / (4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>)  
P = power input to the antenna (in appropriate units, e.g., mW)  
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 (appropriate units, e.g., cm)



**CALCULATED RESULTS**

Radio Frequency Radiation Exposure Evaluation

(Worst case)					
Operating Mode	Max. Power	Max. Antenna Gain		Power density	Limit
	(dBm)	(dBi)	(num)	(mW/ cm <sup>2</sup> )	
BLE	9	5.47	3.524	0.00557	1
BT	11.34	5.5	3.55	0.00961	1

Note: 1.  $BT + BLE = 0.00557 + 0.00961 = 0.01518$  (mW/ cm<sup>2</sup>)

Therefor the maximum calculations of above situations are less than the “1” limit.

2. BT power comes from report NN202ULD(P15C-BR/EDR) 001. (FCC ID: 2AKCY-RL56BBLE)

3. The Power comes from report operation description.

4. The minimum separation distance of the device is greater than 20 cm.

5. Calculate by WORST-CASE mode.

**END OF REPORT**