



# SAR Evaluation Report

**Application No.:** SZCR2104020635ET  
**Applicant:** E-Build Electronic Co., Limited  
**Address of Applicant:** 603, Guangtai Business Center, No. 3, Dezheng West Road, Chang 'an Town, Dongguan City, Guangdong Province  
**Manufacturer:** E-Build Electronic Co., Limited  
**Address of Manufacturer:** 603, Guangtai Business Center, No. 3, Dezheng West Road, Chang 'an Town, Dongguan City, Guangdong Province  
**Factory:** E-Build Electronic Co., Limited  
**Address of Factory:** 603, Guangtai Business Center, No. 3, Dezheng West Road, Chang 'an Town, Dongguan City, Guangdong Province  
**Equipment Under Test (EUT):**  
**EUT Name:** Laebuild Walkie Talkie  
**Model No.:** B7001, B7011, B7012, B7013, B7014  
\* Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.  
**FCC ID:** 2AZQXB7001  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2021-04-20  
**Date of Test:** 2021-04-24 to 2021-05-01  
**Date of Issue:** 2021-05-12

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
EMC Laboratory Manager



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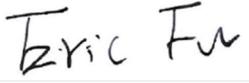
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Shenzhen Branch Inspection & Testing Services Laboratory

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## 2 Version

<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2021-05-12		Original

<b>Authorized for issue by:</b>			
			
	<b>Damon Su/Project Engineer</b>		
			
	<b>Eric Fu/Reviewer</b>		

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## 4 General Information

### 4.1 General Description of EUT

Power supply:	DC 4.5V by 3*AAA batteries.
Frequency Range:	462.5625MHz
Modulation Type:	FM
Emission Type:	F3E
Antenna Type:	Integral
Antenna Gain:	0dBi

#### Declaration of EUT Family Grouping:

Model No.: B7001, B7011, B7012, B7013, B7014

Only the model B7001 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on colour, appearance and packaging.

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## 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch  
No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China  
518057  
Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594  
No tests were sub-contracted.

## 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.

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## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 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.

#### 5.1.2 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:

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

$f(\text{GHz})$  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

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is 10.5 dBm on the lowest channel 0.463 GHz (\*)  
10.50 dBm logarithmic terms convert to numeric result is nearly 11.22 mW

According to the formula. calculate the test exclusion thresholds:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$\text{General RF Exposure} = (11.22 \text{ mW} / 5 \text{ mm}) \times \sqrt{0.463 \text{ GHz}} = 1.53 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZCR210402063501

- End of the Report -

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