



RF Exposure Evaluation Report

Applicant: Beijing Changba Technology Co., Ltd.

Address of Applicant: Room 260, 3C, 5th floor, No.9 Wangjing Street, Chaoyang District, Beijing, China

Equipment Under Test (EUT)

Product Name: CALF Speaker Microphone

Model No.: C12

Trade mark: CALF

FCC ID: 2AWERC12

Applicable standards: FCC CFR Title 47 Part 2 Subpart J Section 2.1093
KDB 447498 D01 v06

Date of sample receipt: 08 Apr., 2022

Date of Test: 17 Apr., 2022~ 20 Apr., 2022

Date of report issue: 19 May 2022

Test Result: PASS *

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

**1 Modified Information**

Version No.	Date	Description
00	19 May 2022	Original

Tested by:*Leo Zhang***Date:**

19 May 2022

Leo Zhang/ Engineer

Reviewed by:*Louis Ye***Date:**

19 May 2022

Louis Ye/ Manager

2 Contents

Page

1 Modified Information	2
2 Contents	3
3 General Information	4
3.1 Client Information	4
3.2 General Description of E.U.T.	4
3.3 Operating Modes	4
3.4 Additions to, deviations, or exclusions from the method	4
3.5 Laboratory Facility	4
3.6 Laboratory Location	4
4 Technical Requirements Specification in FCC CFR Title 47 Part 2.1093	5
4.1 Limits	5
4.2 Result	5
4.3 Conclusion	5

3 General Information

3.1 Client Information

Applicant:	Beijing Changba Technology Co., Ltd.
Address:	Room 260, 3C, 5th floor, No.9 Wangjing Street, Chaoyang District, Beijing, China
Manufacturer:	Same as Applicant
Address:	Same as Applicant

3.2 General Description of E.U.T.

Product Name:	CALF Speaker Microphone
Model No.:	C12
Operation Frequency:	Bluetooth: 2402MHz~2480MHz
Hardware Version	V1
Software Version	V1
Modulation technology:	Bluetooth BDR : GFSK, Bluetooth EDR: π /4-DQPSK
Antenna Type:	PCB Antenna
Antenna gain:	BT: 2dBi
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Operating Modes

Operating mode	Detail description
BT mode	Keep the EUT in continuously transmitting in BT mode

3.4 Additions to, deviations, or exclusions from the method

No

3.5 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1279 Jianyan Testing Group Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 892155. ● ISED – CAB identifier.: CN0102 Jianyan Testing Group Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with ISED#:26114. ● A2LA - Registration No.: 5568.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/5568-01.pdf
--

3.6 Laboratory Location

<p>JianYan Testing Group Co., Ltd. Address: No.760, Fengling Road, Tong'an District, Xiamen, Fujian, China Tel: +86-592-2273071, Fax:+86-592-2273700 Email: info-JYTee@lets.com, Website: http://www.lets.com/</p>

4 Technical Requirements Specification in FCC CFR Title 47 Part 2.1093

4.1 Limits

According to 447498 D01 General RF Exposure Guidance v06 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR and ≤ 7.5 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
- The result is rounded to one decimal place for comparison

4.2 Result

Worse case for BT as below:

[2480MHz: 0.229dBm (1.05mW) output power]

$(1.05\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480(\text{GHz})}] = 0.33 < 3.0$ for 1-g SAR

4.3 Conclusion

The device is exempt from the RF exposure evaluation.

-----End of report-----