



RF Exposure Evaluation Report

Application No.: GZCR2108020813AT
Applicant: Empowerment Technologies Inc
Address of Applicant: 590 York Rd., Unit 2, Niagara-on-the-Lake, L0S 1J0, Canada
Manufacturer: ShenZhen Apical Technology Co., Ltd
Address of Manufacturer: 9/F, Building B, Tsinghua Unis Infoport, No.13 Langshan Road, Nanshan District, Shenzhen, China
Factory: DONGGUAN APICAL ELECTRONICS CO.,LTD
Address of Factory: 6#,Shunxin5 Rd, No.2 Industrial zone, Dajingtou, Dalang Town, DongGuan City, China

Equipment Under Test (EUT):
Product Name: Video Baby Monitor
Model No.: LGHP5C
Standards: 47 CFR Part 1.1310
 47 CFR Part 2.1091
 447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2021-08-19
Date of Test: 2021-08-19 to 2021-08-31
Date of Issue: 2021-09-03

| | |
|----------------------|--------------|
| Test Result : | PASS* |
|----------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian
EMC Laboratory Manager





SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch EMC Laboratory

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2 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2021-09-03 | | Original |
| | | | | |
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| Authorized for issue by: | | | |
| | |  | |
| | | Curry Wu/Project Engineer | |
| | |  | |
| | | Ricky Liu/Reviewer | |



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4 General Information

4.1 General Description of EUT

| | |
|----------------------|--|
| Power supply: | DC5V/2A by power adapter Adapter Model No.: TEKA012-0502000UK Adapter input: 100-240V~,50/60Hz,0.35A |
| Cable: | 1.5m shielded cable without ferrite core |
| Operation Frequency: | 2410MHz~2477MHz |
| Modulation Type: | GFSK |
| Number of Channels: | 20 |
| Channel Spacing: | 3.5MHz(min), 4MHz(Max) |
| Antenna Type: | Dipole antenna |
| Antenna Gain: | 3dBi |
| Channel List | 2410MHz, 2413.5MHz, 2417MHz, 2420.5MHz, 2424MHz, 2427.5MHz, 2431MHz, 2434.5MHz, 2438MHz, 2441.5MHz, 2445MHz, 2448.5MHz, 2452MHz, 2455.5MHz, 2459MHz, 2462.5MHz, 2466MHz, 2469.5MHz, 2473MHz, 2477MHz |
| Firmware Version: | V1.5.6 |
| Hardware Version: | LGHP5C |
| Testing Software: | Built-in V1.0 |
| Sample NO.: | LGHP5C1210704001 |
| Power Setting: | 13dBm, can not be changed by user. |
| Function: | Baby Monitor with 2.4G FHSS wireless function |



4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.3 Test Facility

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

- NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully



comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled Exposures | | | | |
| 0.3–3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0–30 | 1842/f | 4.89/f | *(900/f ²) | 6 |
| 30–300 | 61.4 | 0.163 | 1.0 | 6 |
| 300–1500 | | | f/300 | 6 |
| 1500–100,000 | | | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 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 |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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5.1.3 EUT RF Exposure Evaluation

Camera:

Antenna Gain: 3dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.00 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency (MHz) | Max Conducted Peak Output Power (dBm) | Output Power to Antenna (mW) | Power Density at R = 20 cm (mW/cm ²) | Limit (mW/cm ²) | Result |
|-----------------|---------------------------------------|------------------------------|--|-----------------------------|--------|
| 2410 | 13.37 | 21.73 | 0.0086 | 1.0 | PASS |

Note: Refer to report No. GZCR210802081301 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the formula is far greater than 20 cm separation requirement.

- End of the Report -

