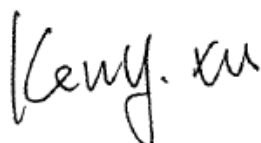


# SAR Evaluation Report

**Application No.:** SZEM1901010195CR  
**Applicant:** SHENZHEN LOFTYNN INTELLIGENCE CO., LTD.  
**Address of Applicant:** Bldg. One No.88 Baishisha Longwangmiao Industrial Fu Yong Baoan Shenzhen 518103, China P.R.C  
**Manufacturer:** EXVISION INDUSTRIES LIMITED  
**Address of Manufacturer:** 3/F, No.65, Gongye 6th Road, Longyan, Humen Dongguan, 523925 China, P.R.C  
**Factory:** EXVISION INDUSTRIES LIMITED  
**Address of Factory:** 3/F, No.65, Gongye 6th Road, Longyan, Humen Dongguan, 523925 China, P.R.C  
**Equipment Under Test (EUT):**  
**EUT Name:** Baby Monitor  
**Model No.:** HD950R  
**Trade Mark:** AXVUE  
**FCC ID:** 2AJD6-HD950R  
**Standards:** 47 CFR Part 1.1307  
 47 CFR Part 2.1093  
 KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2019-01-08  
**Date of Test:** 2019-01-14 to 2019-01-21  
**Date of Issue:** 2019-02-11

|                      |              |
|----------------------|--------------|
| <b>Test Result :</b> | <b>PASS*</b> |
|----------------------|--------------|

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





Keny Xu  
 EMC Laboratory Manager



## 2 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2019-02-11 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |   |  |
|--------------------------|--|---|--|
| Authorized for issue by: |  |   |  |
|                          |  |   |  |
|                          |  | <hr/> <b>Leo Li /Project Engineer</b>   |  |
|                          |  |  |  |
|                          |  | <hr/> <b>Eric Fu /Reviewer</b>  |  |





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## 4 General Information

### 4.1 General Description of EUT

|                      |   |
|----------------------|---|
| Power supply:        | DC 7.5V<br>Adapter Model: P6 0750500<br>Input: AC 100~240V 50/60Hz 250mA<br>Output: DC 7.5V 500mA<br>Ni-MH Battery: 4.8V 800mAh rechargeable battery which charged by adapter |
| Cable:               | DC cable: 195cm unshielded  |
| Operation Frequency: | 2410-2477MHz  |
| Modulation Type:     | GFSK  |
| Channel Spacing:     | 20  |
| Antenna Type:        | PIFA Antenna  |
| Antenna Gain:        | 0dBi  |

#### Channel lists

| Channel No. | Frequency | Channel No. | Frequency | Channel No. | Frequency |
|-------------|-----------|-------------|-----------|-------------|-----------|
| 1           | 2410      | 8           | 2434.5    | 15          | 2459      |
| 2           | 2413.5    | 9           | 2438      | 16          | 2462.5    |
| 3           | 2417      | 10          | 2441.5    | 17          | 2466      |
| 4           | 2420.5    | 11          | 2445      | 18          | 2469.5    |
| 5           | 2424      | 12          | 2448.5    | 19          | 2473      |
| 6           | 2427.5    | 13          | 2452      | 20          | 2477      |
| 7           | 2431      | 14          | 2455.5    |             |           |



## 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:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **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.



## 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  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<sup>17</sup>

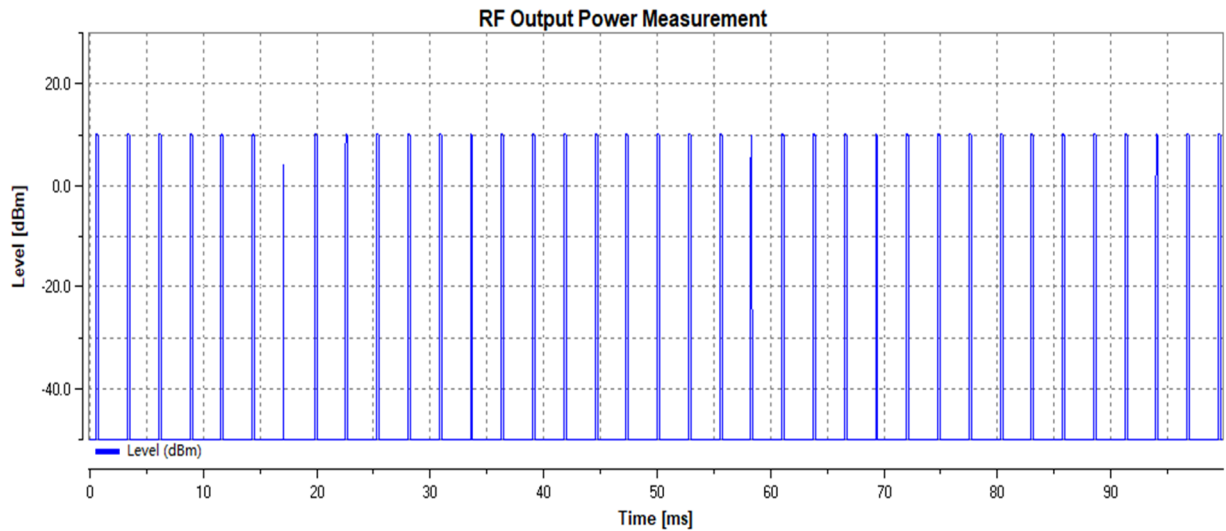
The result is rounded to one decimal place for comparison

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



**Duty Cycle:**



According to the test data of the duty cycle above, the duty cycle is 0.0725  
 The Max Conducted Peak Output Power is 12.08dBm=16.14mW;  
 The source- based time-averaging conducted output power is 16.14 x 0.0725= 1.17mW

According to the formula. calculate the test exclusion thresholds:

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

$$\text{General RF Exposure} = (1.17\text{mW} / 5 \text{ mm}) \times \sqrt{2.410\text{GHz}} = 0.36 \text{ ①}$$

SAR requirement:

$$S = 3.0 \text{ ②} ;$$

$$\text{①} < \text{②}.$$

So the SAR report is not required.

- End of the Report -

