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Report No.: SZEM180700681202

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SAR Evaluation Report

Application No.: SZEM1807006812CR
Applicant: Summer Infant, Inc.
Address of Applicant: 1275 Park East Drive, Woonsocket, Rhode Island 02895, United States
Manufacturer: EXVISION INDUSTRIES LIMITED
Address of Manufacturer: NO.21, NANXING 3RD ROAD, NANFANG IND PARK, BEIZHA, HUMEN, GONGGUAN, CHINA
Factory: EXVISION INDUSTRIES LIMITED
Address of Factory: NO.21, NANXING 3RD ROAD, NANFANG IND PARK, BEIZHA, HUMEN, GONGGUAN, CHINA
Equipment Under Test (EUT):
EUT Name: BABY MONITOR
Model No.: 36014R
Trade Mark: SUMMER
FCC ID: PZK-36014R
Standards: 47 CFR Part 1.1307
 47 CFR Part 2.1093
 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2018-07-30
Date of Test: 2018-08-02 to 2018-09-12
Date of Issue: 2018-09-13

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
 EMC Laboratory Manager



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 Version

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
01		2018-09-13		Original

Authorized for issue by:				
				
		_____ Leo Li /Project Engineer		
				
		_____ Eric Fu /Reviewer		



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4 General Information

4.1 General Description of EUT

Power supply:	DC 7.5V from adapter input AC 120V/60Hz Adapter Model:P6 0750500 Input:AC 100~240V 50/60Hz 250mA Output:DC 7.5V 500mA
Cable:	DC cable: 195cm unshielded
Operation Frequency	2413-2468MHz
Number of Channels	16
Modulation Type	GFSK
Antenna Gain	0dBi
Antenna Type	PIFA Antenna

Channel lists

Ch No.	Frequency	Ch No.	Frequency
1	2413	10	2448
2	2419	11	2451.5
3	2424	12	2455
4	2427.5	13	2458.5
5	2430.5	14	2462
6	2434	15	2465
7	2437.5	16	2468
8	2441		
9	2444.5		



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.

• **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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 ≤ 50 mm are determined by:

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 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

According to the test data of the duty cycle in RF test report. The max Tx on is 8.47 ms in 100ms, so the duty cycle is 0.0847

The Max Conducted Peak Output Power is 16.15dBm=41.21mW;

The source- based time-averaging conducted output power is $41.21 \times 0.0847 = 3.49\text{mW}$

According to the formula. calculate the test exclusion thresholds:

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

General RF Exposure = $(3.49\text{mW} / 5 \text{ mm}) \times \sqrt{2.4445\text{GHz}} = 1.09$ ①

SAR requirement:

S= 3.0 ② ;

① < ②.

So the SAR report is not required.

- End of the Report -