

Report No.: SZCR210502117303

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RF Exposure Evaluation Report

Application No.: SZCR2105021173AT

Applicant: Binatone Electronics International Ltd.

Address of Applicant: 25/F, Guangdong Investment Tower, 148 Connaught Road, Central,

Sheung Wan, Hong Kong, China

Manufacturer: Binatone Telecom Plc.

Address of Manufacturer: 85 Frampton Street, London, NW8 8NQ, United Kingdom

Factory: Shenzhen Anruili Electronic Co., Ltd.

Address of Factory: F2.3.4 Building NO.11, Sha Two Blue Sky Techonology Park, Shajing of

Baoan District, SZ. China Zip CODE 518104

Equipment Under Test (EUT):

Product Name: Smart HD Baby Monitor with Night Light

Model No.: Nursery Pal Glow, Nursery Pal Glow-2, Nursery Pal Glow-3, Nursery Pal

Glow-4, Nursery Pal Glow-W, Nursery Pal Glow-W2, Nursery Pal Glow-W3, Nursery Pal Glow-W4, Nursery Pal Glow-Twin, Nursery Pal Glow-Triple,

Nursery Pal Glow-Quad *

Please refer to section 4.1 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Hubble FCC ID: VLJ-4422AP

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091

Date of Receipt: 2021-06-04

Date of Test: 2021-05-29 to 2021-06-04

Date of Issue: 2021-06-23

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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2 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
01		2021-06-23		Original	

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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4 General Information

4.1 General Description of EUT

Power Supply:	AC adapter1: Model: YWK-AD050100-U Input: 100-240V 50/60Hz 0.3A Output: 5V/1A AC adapter2: Model: XH005W050100USWD Input: 100-240V 50/60Hz 0.2A Output: 5V/1A AC adapter3: Model: JK050100-S37USVD Input: 100-240V 50/60Hz 0.5A Output: 5V/1A
Cable(s):	Adapter1 cable 184cm unshielded Adapter2 cable 172cm unshielded Adapter3 cable 180cm unshielded
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	3.56dBi

Declaration of EUT Family Grouping:

Model No.: Nursery Pal Glow, Nursery Pal Glow-2, Nursery Pal Glow-3, Nursery Pal Glow-4, Nursery Pal Glow-Wa, Nursery Pal Glow-Twin, Nursery Pal Glow-Triple, Nursery Pal Glow-Quad

Only the model Nursery Pal Glow 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 model name, packing and color of enclosure.



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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.

VCC

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 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)

(A) Limits for Occupational/Controlled Exposures						
0.3-3.0 614 1.63 *(100) 3.0-30 1842/f 4.89/f *(900/f²) 30-300 61.4 0.163 1.0 300-1500 5 1.0 1.0 1500-100,000 5 5	6 6 6 6					
(B) Limits for General Population/Uncontrolled Exposure						
0.3-1.34 614 1.63 *(100) 1.34-30 824/f 2.19/f *(180/f²) 30-300 27.5 0.073 0.2 300-1500 5/1500 1.0 1500-100,000 1.0	30 30 30 30 30					

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id 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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4.1.3 EUT RF Exposure Evaluation

Antenna Gain: 3.56dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.27 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
	(111112)	Power (dBm)	(mW)	(mW/cm²)		
Lowest	2412	13.61	22.96	0.0104	1.0	PASS

Note: Refer to report No. SZCR210502117302 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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