

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: HKEM191000101304

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TEST REPORT

HKEM1910001013AT Application No.:

Applicant: Binatone Electronics International Ltd.

Address of Applicant: Floor 23A, 9Des Voeux Road West, Sheung Wan, Hong Kong

Equipment Under Test (EUT):

FCC ID:

EUT Name: 5" Video Baby Monitor

Model No.: COMFORT75, COMFORT75-2, COMFORT75-3, COMFORT75-4,

COMFORT75BU; BLISS54BU &

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

47 CFR Part 1.1307 (2019) Standards:

47 CFR Part 1.1310 (2019) RSS102 Issue 5 March 2015

VLJ-CF75SBU

IC: 4522A-CF75SBU

HVIN: CF75SBU Date of Receipt: 2019-10-25

2019-10-25 to 2019-11-07 Date of Test:

Date of Issue: 2019-11-13

Test Result: Pass*

Keny. Ku



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



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	Revision Record							
Version	Version Chapter Date Modifier Remark							
00		2019-11-13		Original				

Authorized for issue by:		
Tested by:	Vincent Chen	
	Vincent Chen /Project Engineer	
Checked by:	EvicFu	
	Eric Fu /Reviewer	



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2 General Information

2.1 Details of E.U.T.

Power supply: AC 120 V, 60 Hz

Adapter Adaptor 1

AC 100-240V ~ 50/60Hz 150mA to DC 5.0V 1000 mA

Model no: S005BNU0500100

Adaptor 2

AC 100-240V ~ 50/60Hz 150mA to DC 5.0V 1000 mA

Model no: VT05EUS05100

DC supply with internal rechargeable battery

Function Monitoring Device

Test Voltage AC120 V 60 Hz
Operation Frequency: 2405-2475MHz

Channel Numbers: 16

Channel Separation: ≥ 2MHz

Type of Modulation: Frequency Hopping Spread Spectrum (FHSS)

Sample Type: Indoor
Antenna Type: Dipole
Antenna Gain: 0 dBi

Frequency List

Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)
1	2405	12	2428	23	2454
2	2407	13	2430	24	2456
3	2409	14	2433	25	2458.5
4	2411	15	2435	26	2460.5
5	2413	16	2437	27	2462.5
6	2415	17	2439	28	2467
7	2418	18	2441	29	2469



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8	2420	19	2444	30	2471
9	2422	20	2446	31	2473
10	2424	21	2450	32	2475
11	2426	22	2452		

Remark: Testing Channels are highlighted in **bold**.

Description of Support Units 2.2

The EUT has been tested with corresponding accessories as below: Supplied by client

Description	Manufacturer	Model No.	SN/Certificate NO
Test Software	MicroRidge System	Version 3.0.0.108	N/A
UART Test board	N/A	MX3232	N/A

Supplied by SGS:

Description	Manufacturer	Model No.	SN/Certificate NO
NoteBook (EMC2)	Dell	P75F	N/A





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2.3 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.

Fax: +86 755 2671 0594 Tel: +86 755 2601 2053

2.4 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.



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2.5 Deviation from Standards

None

2.6 Abnormalities from Standard Conditions

None



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RF Exposure Evaluation 3

3.1 **RF Exposure Compliance Requirement**

3.1.1 **FCC Radiofreguncy radiation 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/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6				
(B) Limits	for General Populati	on/Uncontrolled Exp	posure					
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 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.



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3.1.2 IC Radiofrequncy radiation

According to RSS-102 Issue 5, section 2.5.2 Exemption.

RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 22.48/f0.5W (adjusted for tune-up tolerance), where f is in MHz;

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10-2 f0.6834 W (adjusted for tune-up tolerance), where f is in

at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

3.1.3 **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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3.1.4 **EUT RF Exposure Evaluation**

Antenna Gain: 0dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

For FCC:

Channel	Frequency (MHz)	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P (mW)	Power Density at R = 20 cm (mW/cm2)	Limit	MPE Ratios	Result
Low	2405	14.9	30.903	0.00615	1	0.00615	PASS
Middle	2439	14.3	26.915	0.00535	1	0.00535	PASS
High	2475	13.3	21.380	0.00425	1	0.00425	PASS

For IC:

Channel	Frequency (MHz)	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P (W)	Limit (W)	Result
Low	2405	14.9	0.0309	2.7	PASS
Middle	2439	14.3	0.0269	2.7	PASS
High	2475	13.3	0.0213	2.7	PASS

Note: Refer to report No. HKEM191000101301 or EUT test EIRP value. The distance (5th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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