



**Shenzhen Asia Test Technology Co., Ltd.**

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# **FCC RADIO TEST REPORT**

## **FCC ID: 2AB6C-820**

**Product :** wireless Baby Monitor

**Trade Name :** N/A

**Model Name :** 820

**Addition Model :** N/A

### **Prepared for**

Shenzhen Seepower Electronics Co.,LTD  
3 floor, 9 Building, Guoxia industrial area Sanlian village, Longhua  
Subdistrict, Baoan town, shenzhen, China

### **Prepared by**

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### TEST RESULT CERTIFICATION

**Manufacture's Name**..... : Shenzhen Seepower Electronics Co.,LTD

**Address**..... : 3 floor, 9 Building, Guoxia industrial area Sanlian village, Longhua  
Subdistrict, Baoan town, shenzhen, China

#### **Product description**

**Product name**..... : wireless Baby Monitor

**Model and/or type reference** : 820

**Rating(s)**..... : DC 5V

**Standards**..... : FCC Part15.249

**Test procedure**..... ANSI C63.10-2013

This device described above has been tested by ATT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test**..... :

**Date (s) of performance of tests**..... : Jul. 01 2017 ~Jun. 10 2017

**Date of Issue**..... : Jul. 11 2017

**Test Result**..... : **Pass**

**Reviewed by:** \_\_\_\_\_

*Seal-Chen*

**Approved by:** \_\_\_\_\_

*[Signature]*



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### . SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Test	Test Requirement	Standard Paragraph	Result
Field Strength of Fundamental	FCC PART 15 C section 15.249 (a)	ANSI C63.10: Clause 6.6	PASS
Field Strength of Unwanted Emissions	FCC PART 15 C section 15.249 (a) section 15.249 (d)	ANSI C63.10: Clause 6.4, 6.6 and 6.7	PASS
Band Edges	FCC PART 15 C section 15.249 (d)	ANSI C63.10: Clause 6.9.2	PASS
Occupied Bandwidth	FCC PART 15 C section 15.215(c)	ANSI C63.10: Clause 6.9.1	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS
Antenna Requirement	FCC PART 15 C section 15.203	FCC PART 15 C section 15.203	PASS



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## TEST FACILITY

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

**.CNAS- Registration No: L6177**

Dongguan Yaxu (AiT) technology Limited is accredited 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) on Apr. 18, 2013

**.FCC- Registration No: 248337**

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Dongguan Yaxu (AiT) Technology Limited have been registered by Federal Communications Commission (FCC) on Aug.29, 2014.

**.Industry Canada(IC)-Registration No: IC6819A-1**

The 3m Semi-Anechoic Chamber and 3m of Dongguan Yaxu (AiT) Technology Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Oct. 01, 2014.

**.VCCI- Registration No: 2705**

The 3m/10m Open Area Test Site, Shielding Room and 3m Chamber of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on Nov. 21, 2012. The Telecommunication Ports Conducted Disturbance Measurement of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on May. 13, 2013.

**.TUV NORD**

Dongguan Yaxu (AiT) Technology Limited has been assessed on Jun. 13, 2013 that it can carry out EMC tests by order and under supervision of TUV NORD.

**.ITS- Registration No: TMPSHA031**

Dongguan Yaxu (AiT) Technology Limited has been assessed and included in Intertek Shanghai TMP Program regarding Laboratory facilities and test equipment on Jul.22, 2012.

## MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



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## . GENERAL INFORMATION

### GENERAL DESCRIPTION OF EUT

EUT Name:	wireless Baby Monitor
Model No.:	820
Addition Model:	N/A
Brand Name:	N/A
Model Differences:	All models are identical except model name and colors.
Operation frequency:	2410.875 MHz to 2471.625 MHz
Number of channel:	15 channels
Modulation Type:	GFSK
Antenna Type:	PCB antenna
Antenna Gain:	0 dBi
Power Supply Range:	DC 5V by adapter
Adapter:	M/N:SBJ-001 Input:100-240V~, 50/60Hz, 0.18A Output:5Vdc, 1A
Battery:	N/A
H/W No.:	CV371PBV02_TX_MAIN
S/W No.:	V1.1

Description of Channel:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>01</b>	<b>2410.875</b>	07	2434.500	13	2461.500
02	2417.625	<b>08</b>	<b>2441.250</b>	14	2464.875
03	2421.000	09	2448.000	<b>15</b>	<b>2471.625</b>
04	2424.375	10	2451.375		
05	2427.750	11	2454.750		
06	2431.125	12	2458.125		



## DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
CH01	CH1
Mode 2	CH8
Mode 3	CH15
Mode 4	Link

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link

For Radiated Emission	
Final Test Mode	Description
CH01	CH1
Mode 2	CH8
Mode 3	CH15
Mode 4	Link

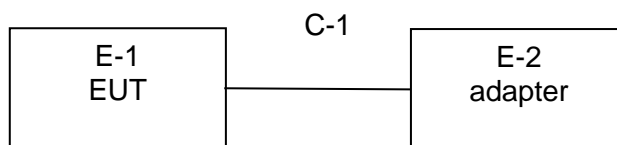
Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use full-charge battery.

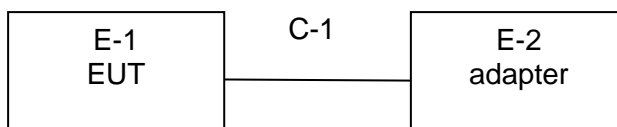


**BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**

**Radiated Spurious Emission Test**



**Conducted Spurious Emission Test**







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### DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	wireless Baby Monitor	N/A	820	N/A	EUT
E-2	Adapter	N/A	SBJ-001	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



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### EQUIPMENTS LIST FOR ALL TEST ITEMS

Equipment No.	Instrument	Manufacturer	Model Name	Serial Number	Specification	Cal. Data
1	Semi-anechoic chamber	Changzhou Chengyu	EC3088	N/A	9*6*6m	10/25/2016
2	Broadband antenna	R&S	VULB 9160	VULB91 60-516	30MHz-1500 MHz	10/25/2016
3	Horn antenna	R&S	BBHA 9120D	10087	1GHz-18GHz	10/25/2016
4	Test receiver	R&S	ESCI	101686	9KHz-3GHz	10/25/2016
5	EMI Measuring Receiver	Agilent	N9020A	MY4910010 4	20KHz-26.5GHz	10/25/2016
6	Multi-device controller	MF	MF-7868	MF78680 8762	N/A	10/25/2016
7	Amplifier	EM	EM-30180	060538	1GHz-18GHz	10/25/2016
8	Amplifier	Schwarzbeck	BBV 9475	BBV 9475-663	1GHz-18GHz	10/25/2016
9	Spectrum Analyzer	agilent	E4440B	US44300368	1GHz-26.5GHz	10/25/2016
10	Test receiver	R&S	ESCI	101689	9KHz-3GHz	10/25/2016
11	LISN	R&S	NSLK81 26	8126466	9k-30MHz	10/25/2016
12	LISN	Narda	L2-16B	5589756	9k-30MHz	10/25/2016
13	Radiated Cable 1#	FUJIKURA	5D-2W	01	30MHz-1GHz	10/25/2016
14	Radiated Cable 2#	FUJIKURA	10D2W	02	1GHz -25GHz	10/25/2016
15	Conducted Cable 1#	FUJIKURA	1D-2W	01	9KHz-30MHz	10/25/2016
16	SMA Antenna connector	Dosin	Dosin-SMA	N/A	N/A	10/25/2016

Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.  
The Cal.Interval was one year



## **. ANTENNA REQUIREMENT**

### **STANDARD REQUIREMENT**

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **EUT ANTENNA**

The EUT antenna is PCB Antenna with 0dBi gain. It comply with the standard requirement.



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## CONDUCTED EMISSION MEASUREMENT

### POWER LINE CONDUCTED EMISSION Limits

(Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	(dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



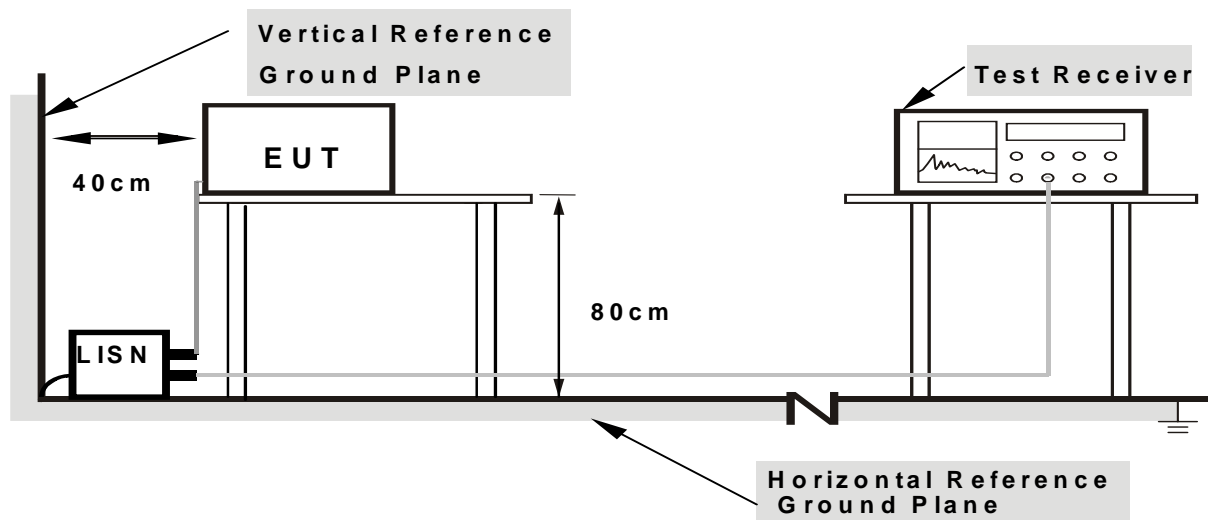
## TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

## DEVIATION FROM TEST STANDARD

No deviation

## TEST SETUP



**Note: 1.**Support units were connected to second LISN.

**2.**Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes



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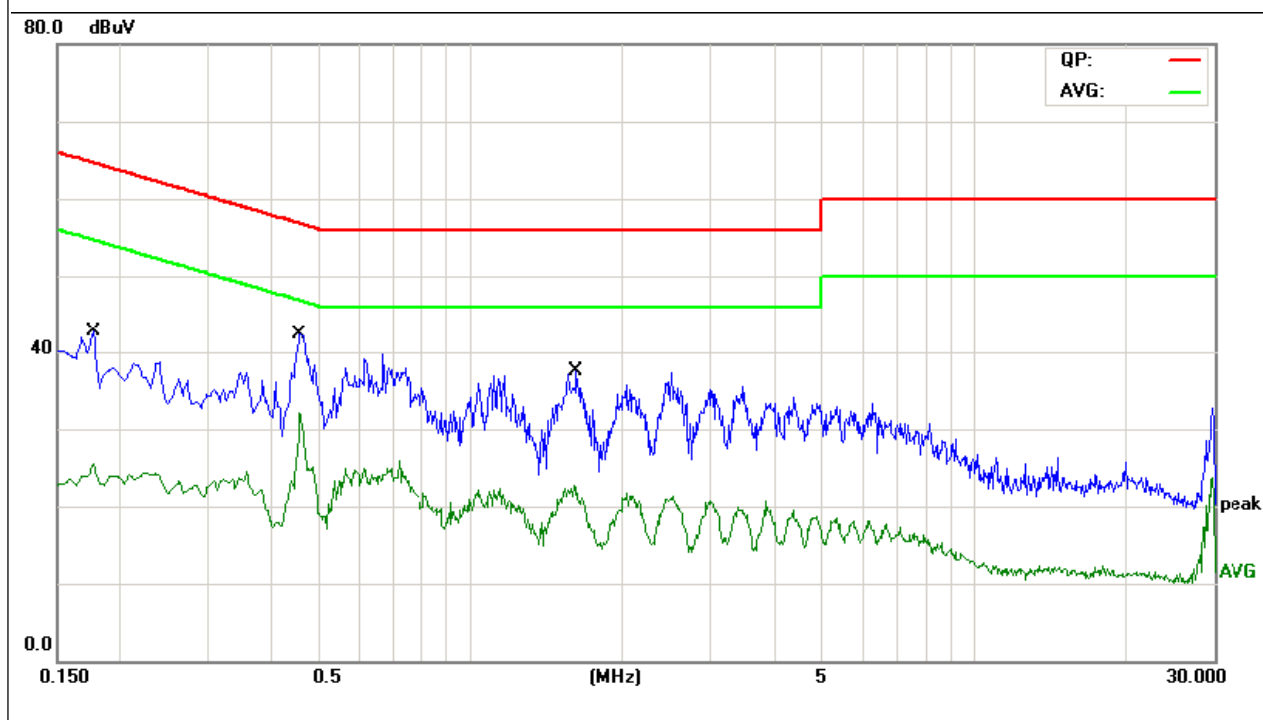
### 3.2.5 TEST RESULT

EUT :	wireless Baby Monitor	Model Name. :	820
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2017-07-06
Test Mode :	Link	Phase :	L
Test Voltage :	DC 5V from charger AC 120V/60Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1768	31.21	11.46	42.67	64.63	-21.96	QP	
2		0.1768	13.98	11.46	25.44	54.63	-29.19	AVG	
3	*	0.4560	31.07	11.32	42.39	56.76	-14.37	QP	
4		0.4560	20.73	11.32	32.05	46.76	-14.71	AVG	
5		1.6079	25.93	11.49	37.42	56.00	-18.58	QP	
6		1.6079	11.15	11.49	22.64	46.00	-23.36	AVG	

#### Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit





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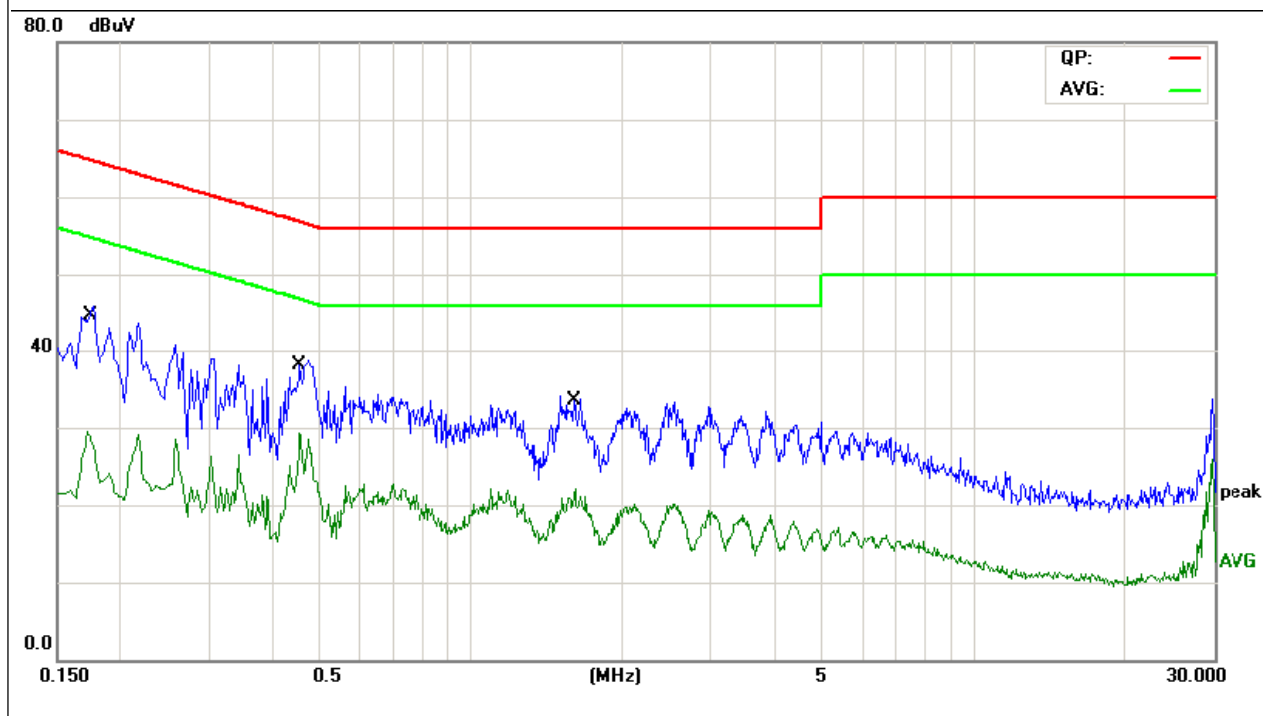
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EUT :	wireless Baby Monitor	Model Name. :	820
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2017-07-06
Test Mode :	Link	Phase :	N
Test Voltage :	DC 5V from charger AC 120V/60Hz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1723	34.42	11.46	45.88	64.84	-18.96	QP	
2		0.1723	17.96	11.46	29.42	54.84	-25.42	AVG	
3		0.4560	27.46	11.32	38.78	56.76	-17.98	QP	
4	*	0.4560	18.02	11.32	29.34	46.76	-17.42	AVG	
5		1.6124	22.30	11.50	33.80	56.00	-22.20	QP	
6		1.6124	10.65	11.50	22.15	46.00	-23.85	AVG	

## Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit





## RADIATED EMISSION MEASUREMENT

### Radiated Emission Limits ( FCC 15.209 )

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

### LIMITS OF RADIATED EMISSION MEASUREMENT ( FCC 15.249)

Frequency of Emission (MHz)	Field Strength of fundamental ((millivolts /meter)	Field Strength of Harmonics (microvolts/meter)
2400 - 2483.5	50	500

Notes:

- (1) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP





## TEST PROCEDURE

### 1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT, During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

### 2) 30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

### 3) 1 GHz to 25 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2007 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scan between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

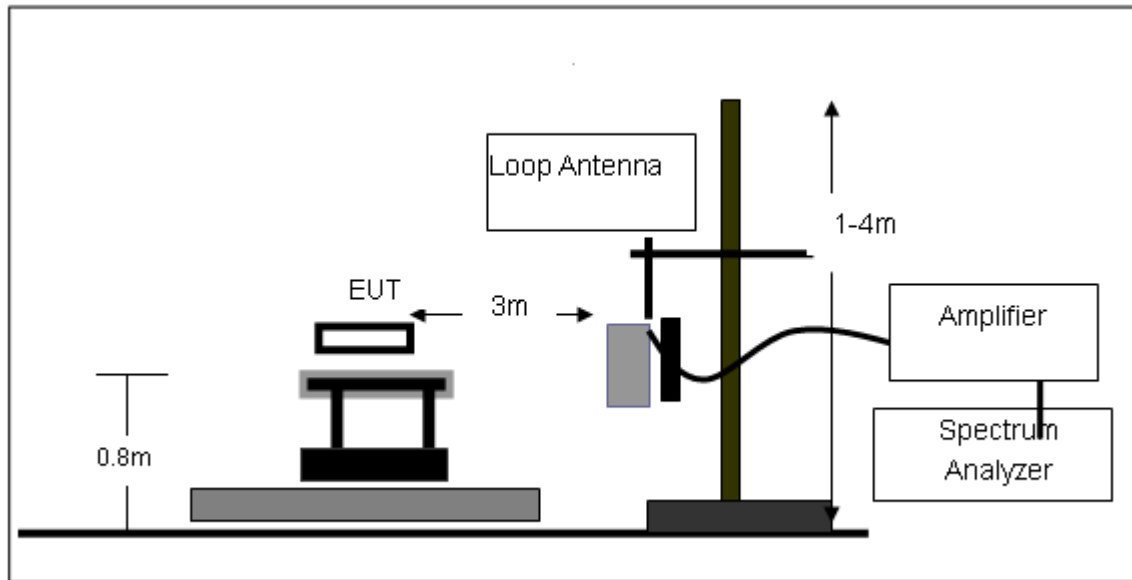
## DEVIATION FROM TEST STANDARD

No deviation

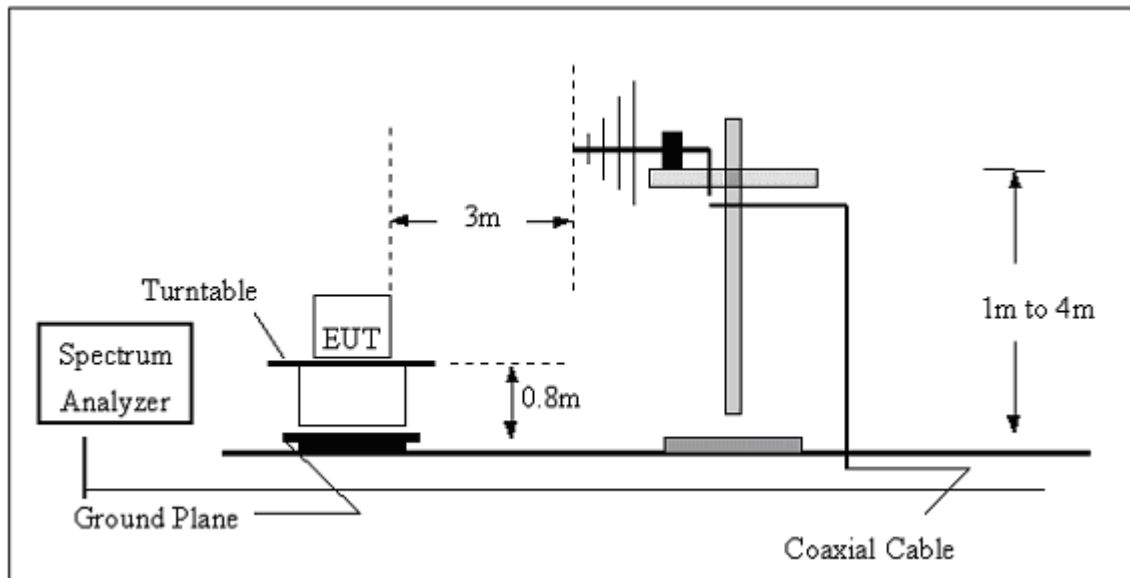


## TEST SETUP

### (A) Radiated Emission Test-Up Frequency Below 30MHz



### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz

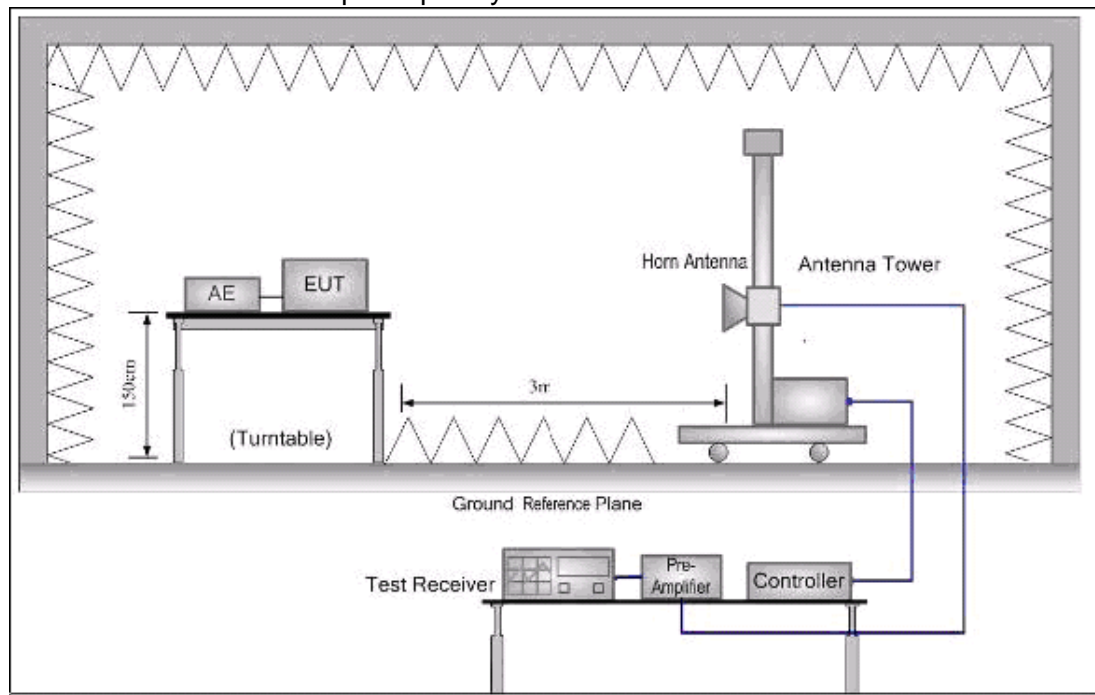




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## (C) Radiated Emission Test-Up Frequency Above 1GHz



## Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Detector type	Limits PK/AV (dBuV/m)	Margin (dB)
2410.875	92.15	H	Peak	114	-21.85
2410.875	89.34	H	AVG	94	-4.66
2441.250	91.36	H	Peak	114	-22.64
2441.250	88.47	H	AVG	94	-5.53
2471.625	91.62	H	Peak	114	-22.38
2471.625	88.23	H	AVG	94	-5.77
2410.875	89.75	V	Peak	114	-24.25
2410.875	86.33	V	AVG	94	-7.67
2441.250	89.02	V	Peak	114	-24.98
2441.250	85.73	V	AVG	94	-8.27
2471.625	89.54	V	Peak	114	-24.46
2471.625	86.03	V	AVG	94	-7.97



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### Spurious Emissions

#### TEST RESULTS (BELOW 30MHz)

EUT :	wireless Baby Monitor	Model Name. :	820
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

#### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



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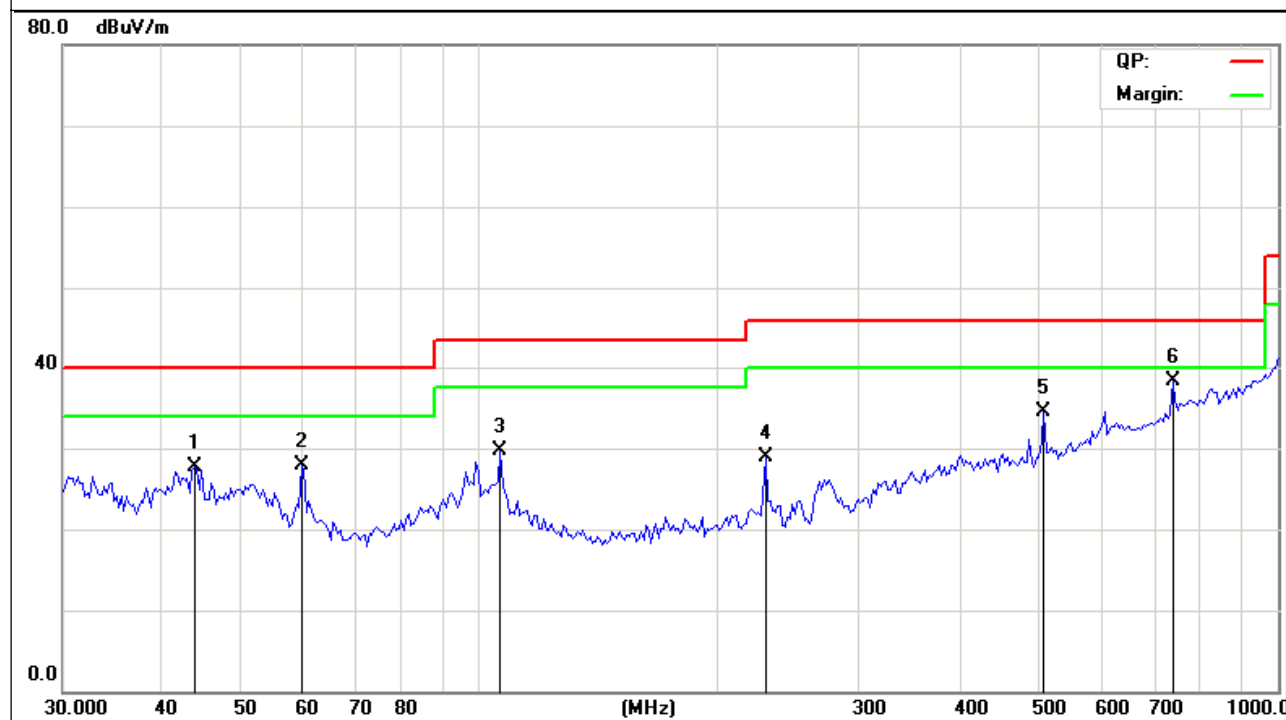
## TEST RESULTS (BETWEEN 30 – 1000 MHZ)

EUT :	wireless Baby Monitor	Model Name :	820
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		43.8451	34.58	-6.93	27.65	40.00	-12.35	QP
2		59.7314	35.29	-7.43	27.86	40.00	-12.14	QP
3		106.2810	36.56	-6.80	29.76	43.50	-13.74	QP
4		228.6173	38.00	-9.06	28.94	46.00	-17.06	QP
5		509.3559	35.43	-0.86	34.57	46.00	-11.43	QP
6	*	739.2136	33.50	4.76	38.26	46.00	-7.74	QP

Remark:

Factor = Antenna Factor + Cable Loss.





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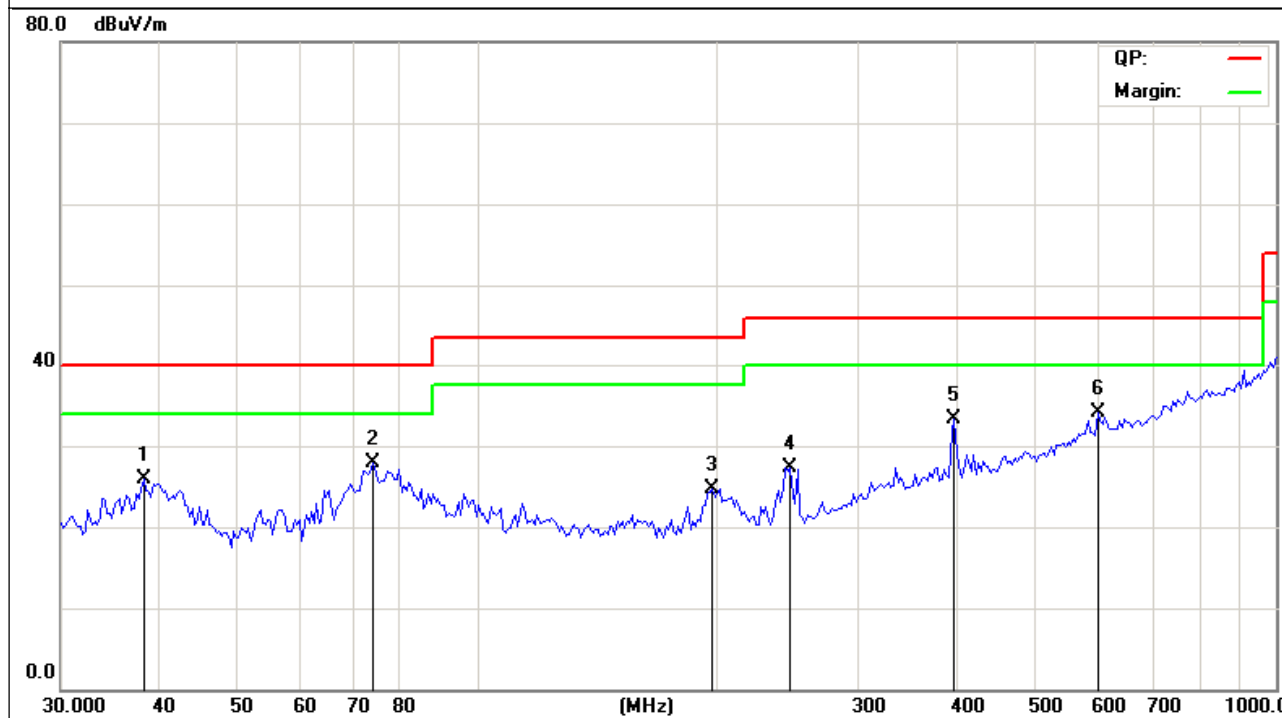
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EUT :	wireless Baby Monitor	Model Name :	820
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Vertical

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		38.0964	33.15	-7.23	25.92	40.00	-14.08	QP	
2		73.7496	38.95	-11.10	27.85	40.00	-12.15	QP	
3		197.2512	33.84	-9.14	24.70	43.50	-18.80	QP	
4		246.9901	36.37	-9.05	27.32	46.00	-18.68	QP	
5		395.5070	34.85	-1.64	33.21	46.00	-12.79	QP	
6	*	598.7065	31.77	2.34	34.11	46.00	-11.89	QP	

Remark:

Factor = Antenna Factor + Cable Loss.



Note: test performed on TX mode1, mode2, mode3, mode1 mode is the worst mode and has been reported.



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## TEST RESULTS (ABOVE 1000 MHZ)

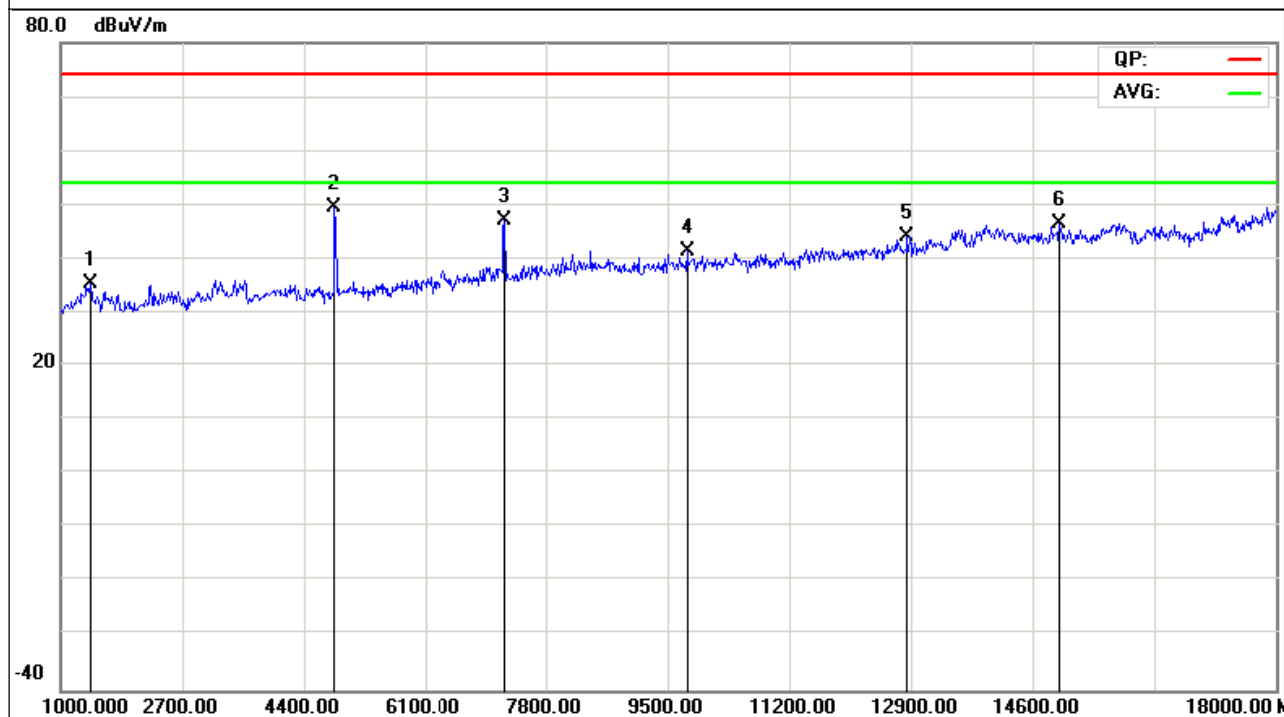
GFSK

EUT :	wireless Baby Monitor	Model Name :	820
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1425.000	47.31	-11.72	35.59	74.00	-38.41	peak	
2	*	4825.000	51.26	-1.70	49.56	74.00	-24.44	peak	
3		7222.000	43.31	3.76	47.07	74.00	-26.93	peak	
4		9772.000	35.85	5.68	41.53	74.00	-32.47	peak	
5		12849.00	36.19	7.99	44.18	74.00	-29.82	peak	
6		14974.00	37.12	9.35	46.47	74.00	-27.53	peak	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





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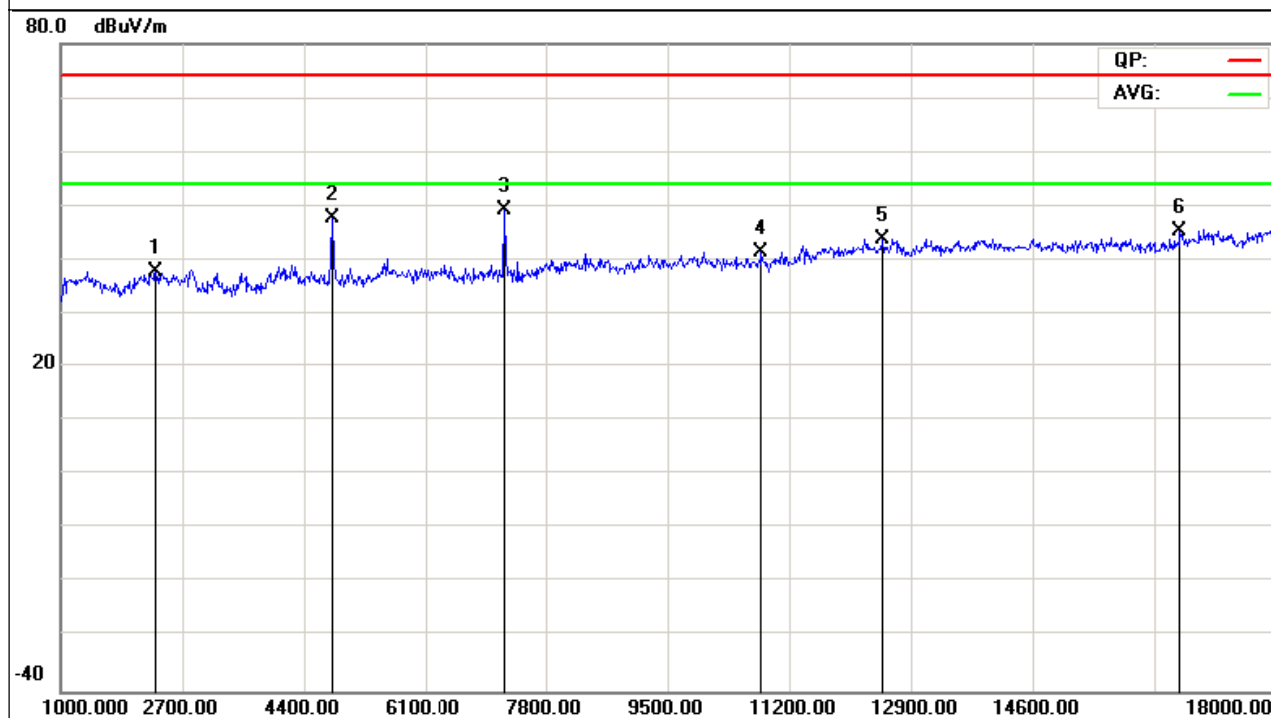
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EUT :	wireless Baby Monitor	Model Name :	820
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH01	Polarization :	Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2326.000	47.93	-10.14	37.79	74.00	-36.21	peak	
2		4791.000	49.57	-1.79	47.78	74.00	-26.22	peak	
3	*	7222.000	45.38	3.76	49.14	74.00	-24.86	peak	
4		10809.00	35.27	6.19	41.46	74.00	-32.54	peak	
5		12509.00	36.45	7.48	43.93	74.00	-30.07	peak	
6		16657.00	36.38	9.11	45.49	74.00	-28.51	peak	

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Note: test performed on TX mode1, mode2, mode3, mode1 mode is the worst mode and has been reported.



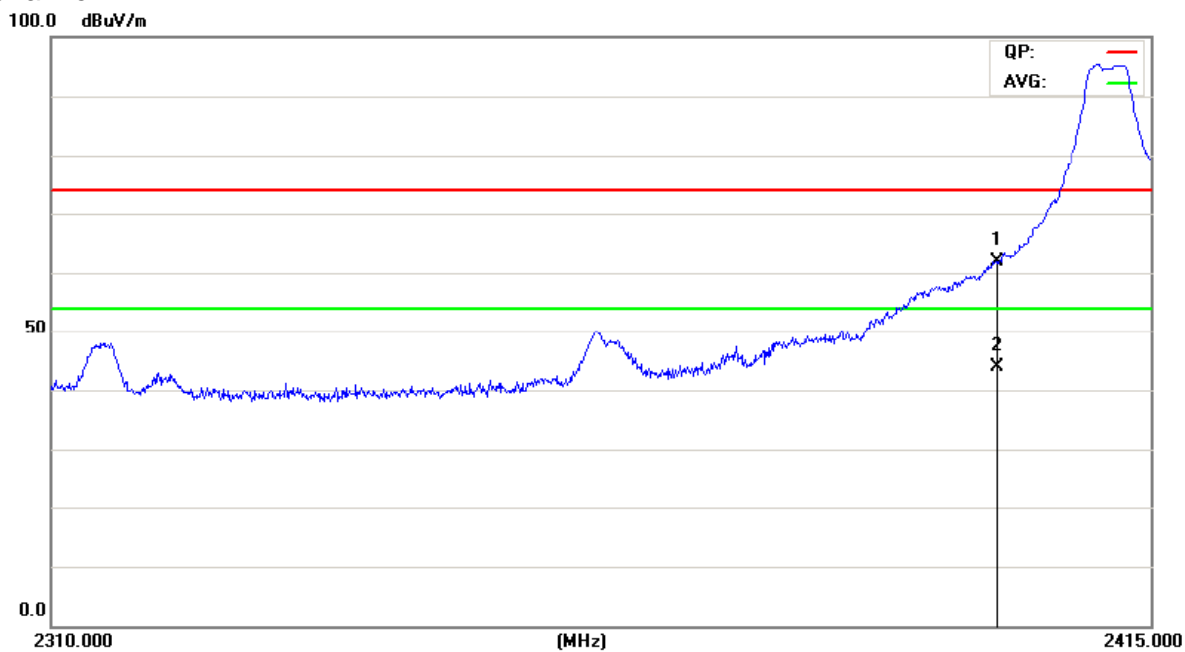


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## Band Edge Measurement

Low Channel

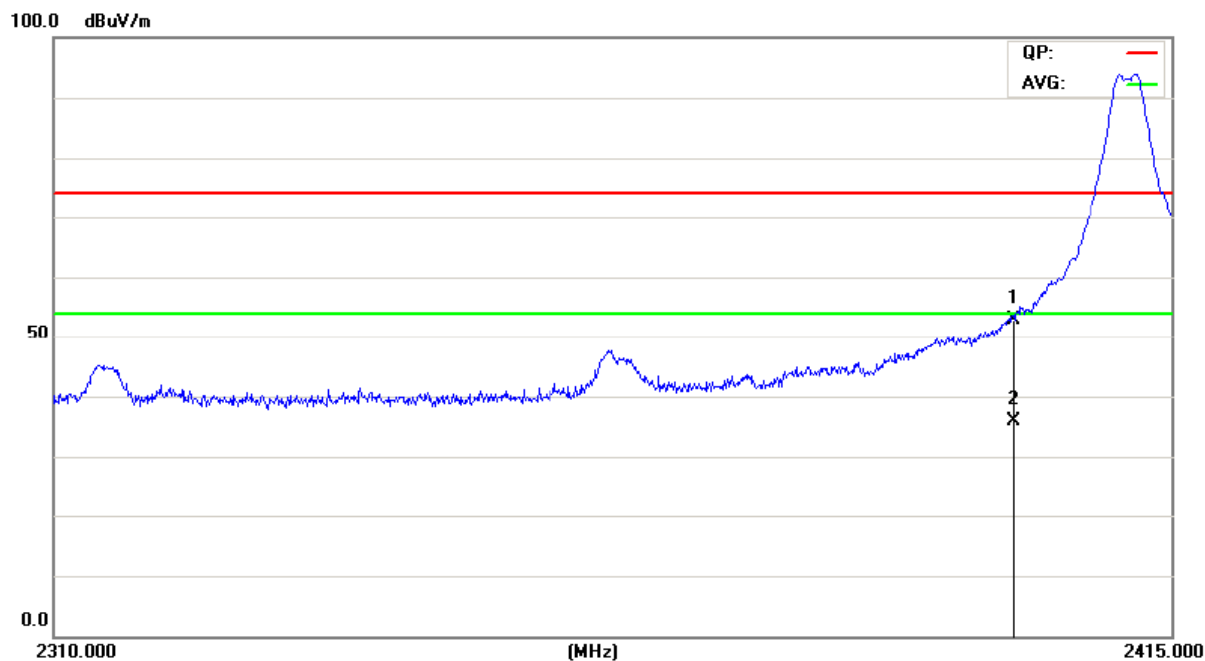


Site Chamber					Polarization: <i>Horizontal</i>			Temperature: 25 (C)	
Limit: FCC part 15 (PK)					Power: DC 5V			Humidity: 55 %	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2400.000	71.65	-9.81	61.84	74.00	-12.16	peak	
2	*	2400.000	53.73	-9.81	43.92	54.00	-10.08	AVG	



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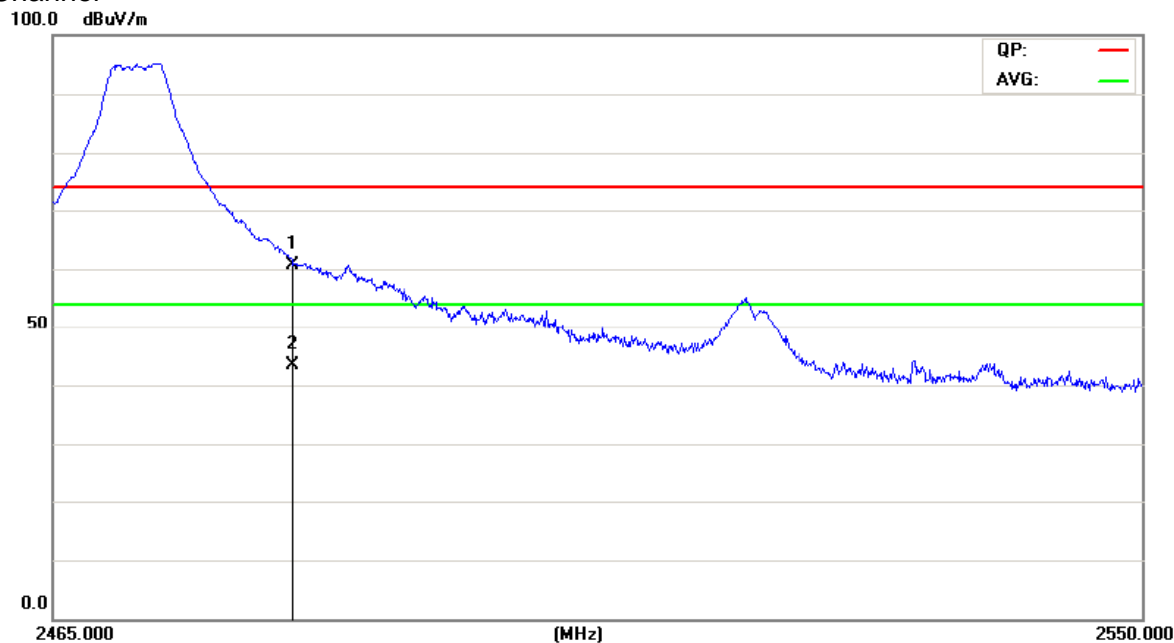
Site Chamber					Polarization: <b>Vertical</b>			Temperature: 25 (C)	
Limit: FCC part 15 (PK)					Power: DC 5V			Humidity: 55 %	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2400.000	62.74	-9.81	52.93	74.00	-21.07	peak	
2	*	2400.000	45.62	-9.81	35.81	54.00	-18.19	AVG	



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High Channel

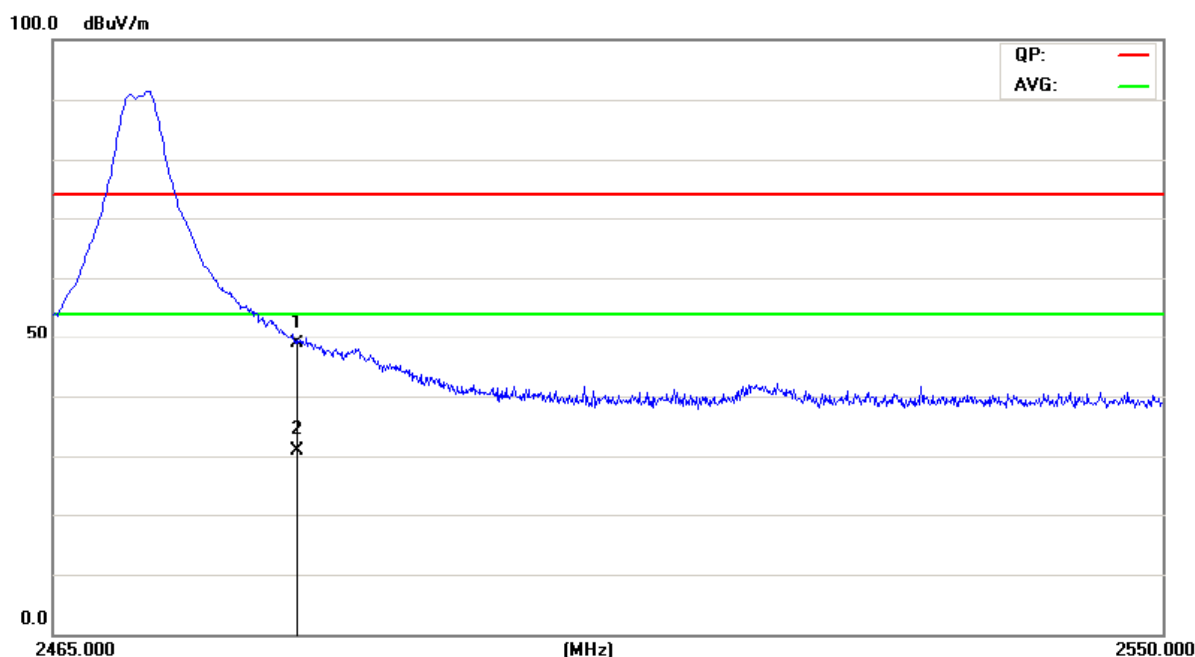


Site Chamber			Polarization: <i>Horizontal</i>			Temperature: 25 (C)		
Limit: FCC part 15 (PK)			Power: DC 5V			Humidity: 55 %		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2483.500	70.16	-9.44	60.72	74.00	-13.28	peak
2	*	2483.500	52.76	-9.44	43.32	54.00	-10.68	AVG



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Site Chamber				Polarization: <b>Vertical</b>			Temperature: 25 (C)	
Limit: FCC part 15 (PK)				Power: DC 5V			Humidity: 55 %	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2483.500	58.28	-9.44	48.84	74.00	-25.16	peak
2	*	2483.500	40.39	-9.44	30.95	54.00	-23.05	AVG

## Remark:

1). The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Loss – Preamplifier Factor.

**Test result: The unit does meet the FCC requirements.**



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### . BANDWIDTH TEST

#### TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW $\geq$ RBW, Sweep time = Auto.

#### DEVIATION FROM STANDARD

No deviation.

#### TEST SETUP





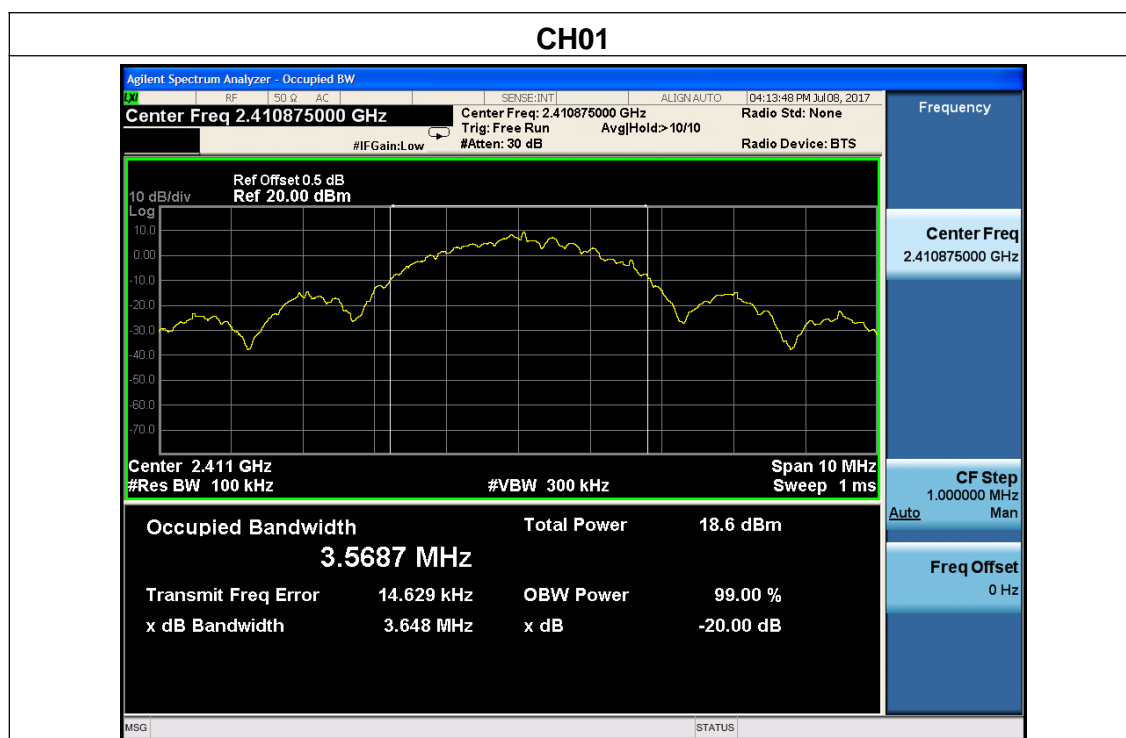
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## TEST RESULTS

EUT :	wireless Baby Monitor	Model Name :	820
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V
Test Mode :	CH01 / CH08 /CH15		

Frequency	20dB Bandwidth (MHz)	Result
2410.875 MHz	3.648	PASS
2441.250 MHz	3.640	PASS
2471.625 MHz	3.631	PASS



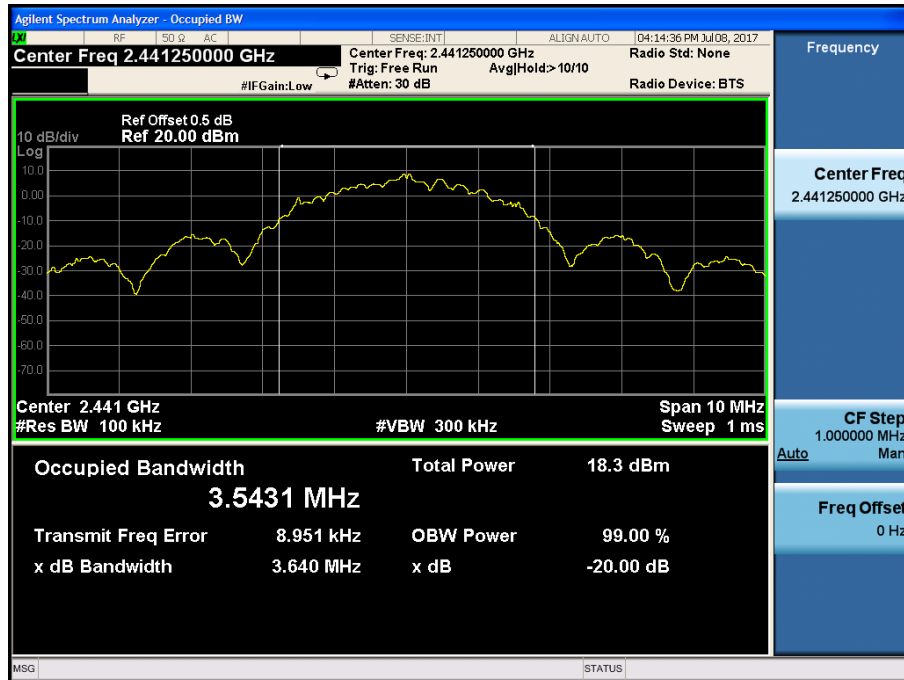


# Shenzhen Asia Test Technology Co., Ltd.

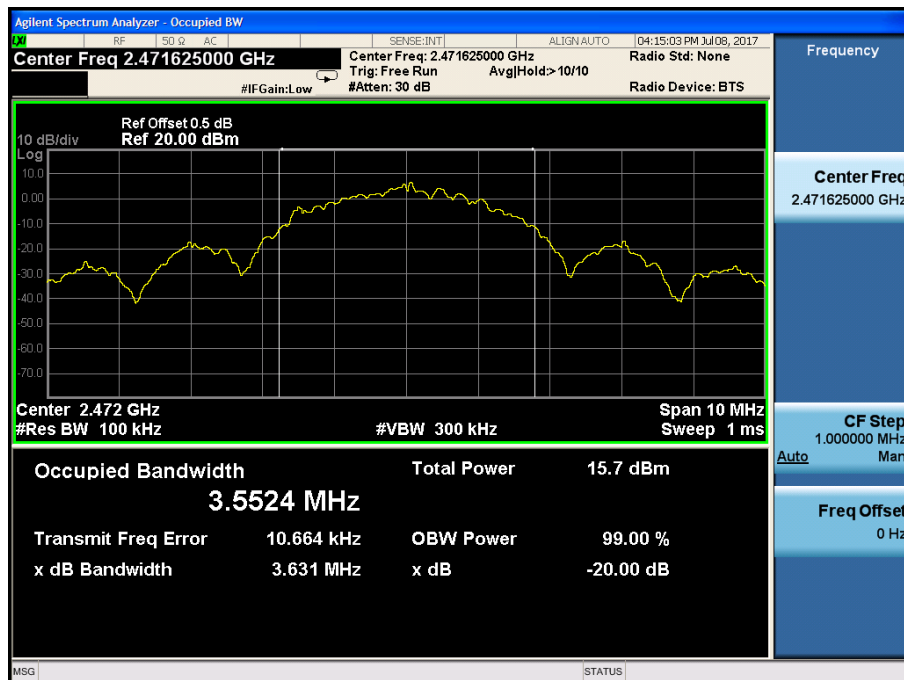
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## CH08



## CH15



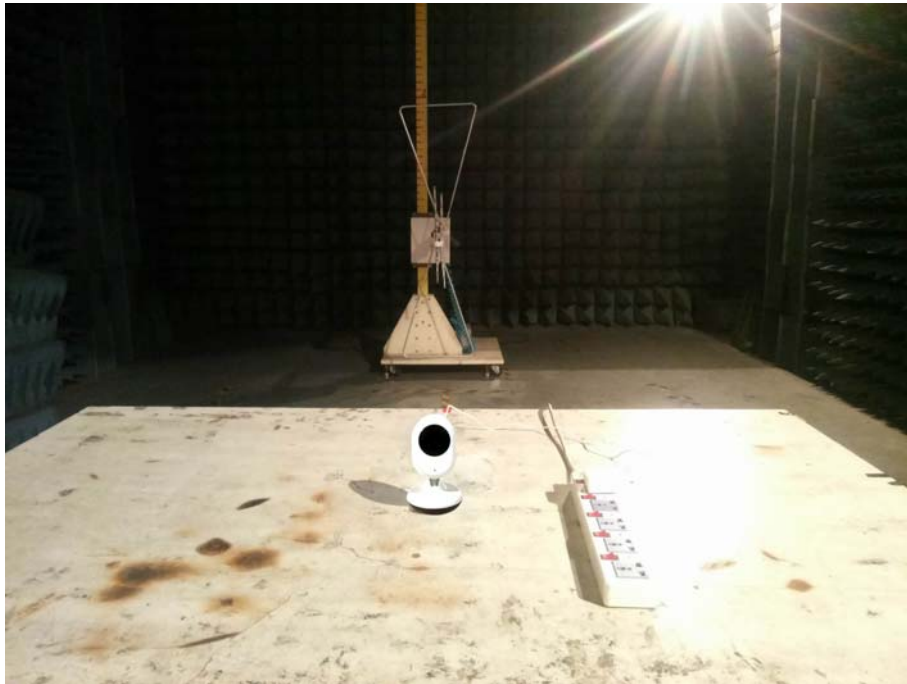


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### . EUT TEST PHOTO

**Radiated Measurement Photos  
30-1000MHz**



**Above 1GHz**







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## Conducted Measurement Photos

0.15-30MHz





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EUT  
Photo 1



Photo 2





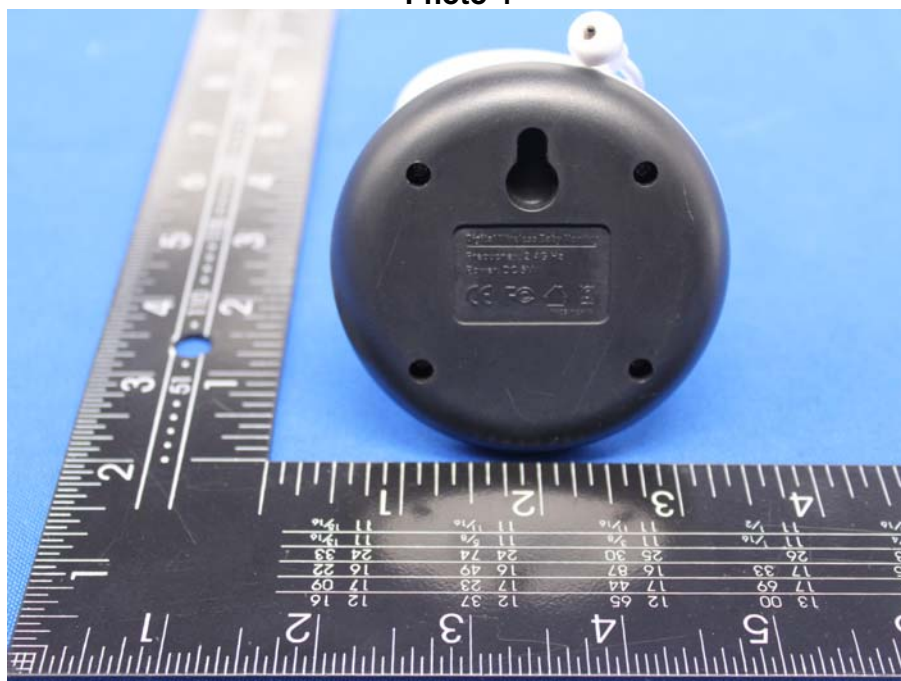
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Photo 3



Photo 4





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Photo 5



Photo 6







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Photo 7



Photo 8





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Photo 9

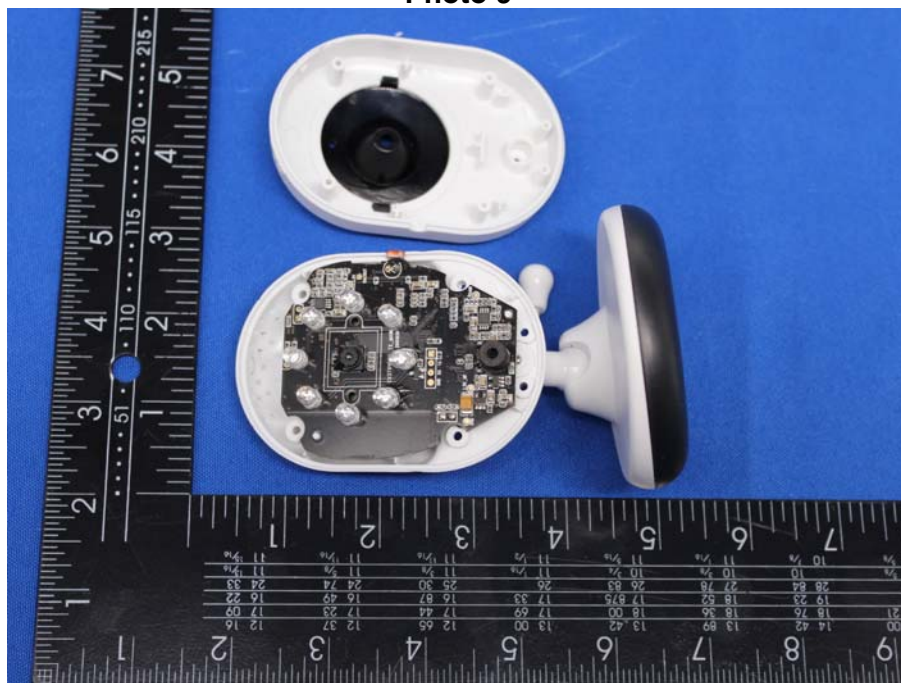
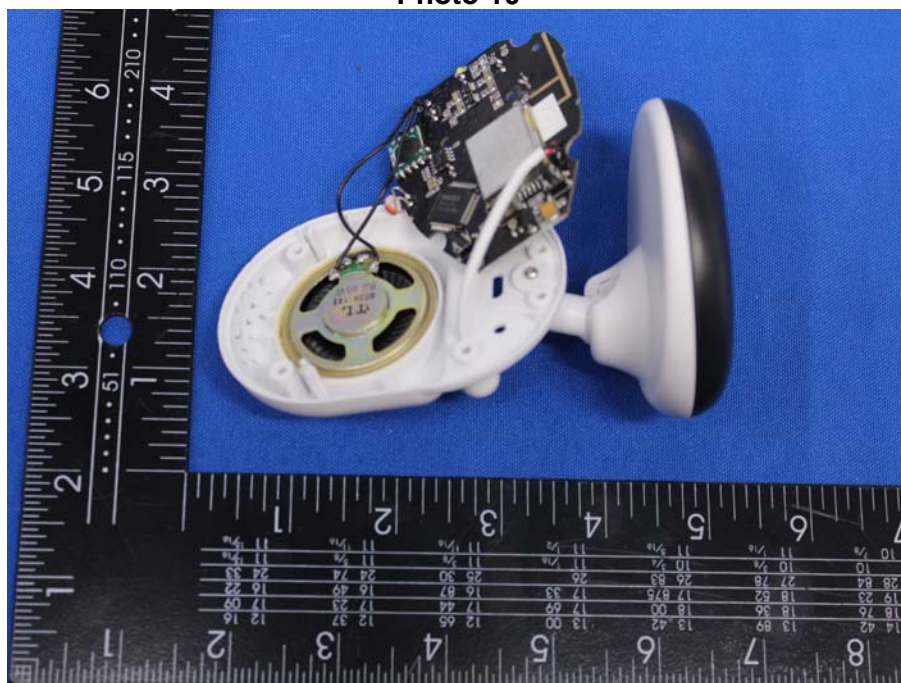


Photo 10







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Photo 11

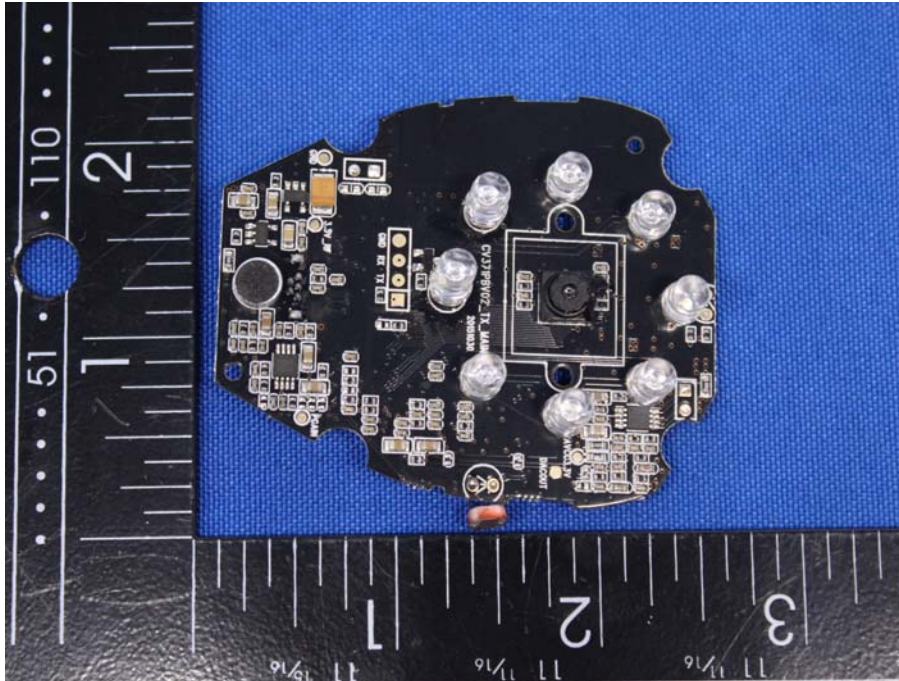
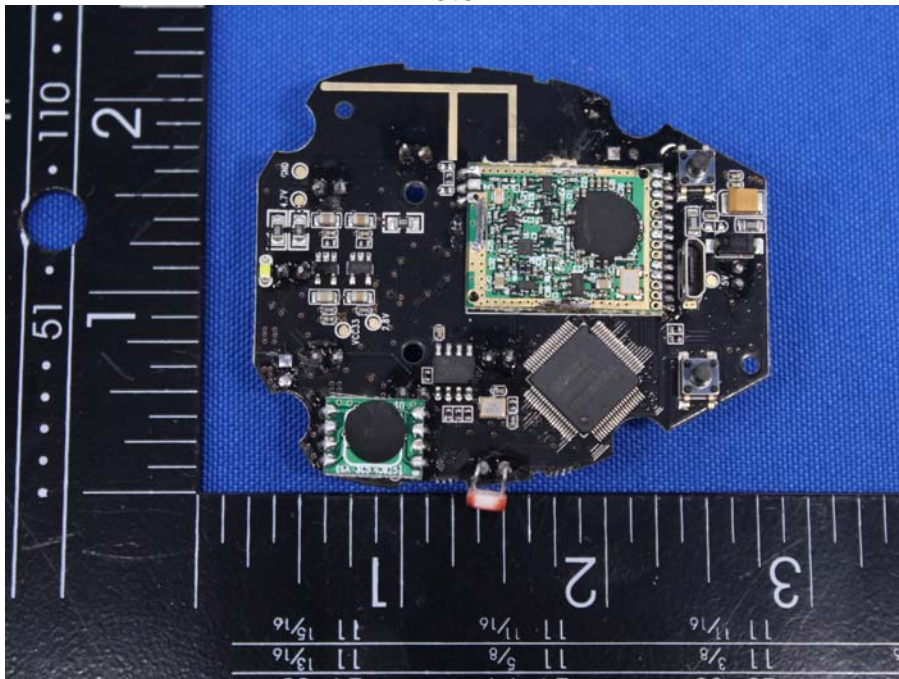


Photo 12





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Photo 13



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**END OF REPORT**