



FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Applicant : Graco Children's products Inc

Address : 150 Oaklands Boulevard, Exton PA 19341.

Product Name : Baby monitor

Model Name : 2L01, PD141818

Brand Name : Graco

FCC ID : M6YPD141818

Report No. : MOST100807F2

Date of Issue : August. 30, 2010

Issued by : Most Technology Service Co., Ltd.

Address : No.5, 2nd Langshan Road, North District, Hi-tech Industrial
Park, Nanshan, Shenzhen, Guangdong, China

Tel : 86-755-8617 0306

Fax : 86-755-8617 0310

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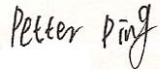
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1. VERIFICATION OF CONFORMITY

Equipment Under Test: Baby monitor
Brand Name: Graco
Model Number: 2L01, PD141818
FCC ID: M6YPD141818
Applicant: Graco Children’s products Inc.
150 Oaklands Boulevard, Exton PA 19341.
Manufacturer: HonorTone LIMITED
Lot No.15-16, Western District of Science & Technology park, Daya Bay Economy and Technology Development District, Huizhou City, Guangdong Province, PRC.
Technical Standards: 47 CFR Part 15 Subpart C
File Number: MOST100807F2
Date of test: August. 25, 2010–August. 30, 2010
Deviation: None
Condition of Test Sample: Normal
Test Result: PASS

The above equipment was tested by Most Technology Service Co., Ltd. for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

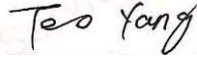
The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature): 

Petter Ping August. 30, 2010

Review by (+ signature): 

July Wen August. 30, 2010

Approved by (+ signature): 

Terry Yang August. 30, 2010

2. GENERAL INFORMATION

2.1 Product Information

Product	Baby monitor
Brand Name	Graco
Model Number	2L01
Series Model Name:	PD141818
Series Model Difference description:	Only the model name is different.
Power Supply	DC 6V by AC Adapter 120V/60Hz
Frequency Range	49.83MHz – 49.875 MHz
Modulation Technique	FM
Channel Number	4 (49.830MHz, 49.845MHz, 49.860MHz, 49.875MHz)
Antenna Gain	1.0 dBi
Temperature Range	-10°C-50°C

NOTE:

1. Please refer to Appendix I for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 OBJECTIVE

The objective of the report is to perform tests according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-05 Edition)	Radio Frequency Devices

2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.235	Radiated Emission	PASS	2010-8-26
2	15.235	Band Edge	PASS	2010-8-26
3	15.203	Antenna Requirement	PASS	2010-8-26
4	15.207	Power Line Conducted Emission Test	PASS	2010-8-26

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

3. TEST METHODOLOGY

3.1 TEST FACILITY

Test Site:	Most Technology Service Co., Ltd
Location:	No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003 and CISPR 16 requirements. The FCC Registration Number is 490827 .
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4:2003 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna.

3.2 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2003, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2003.

4 SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

Device Type	Brand	Model	FCC ID	Series No.	Audio Cable	Power Cord
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Remark:

All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test. Grounding was established in accordance with the manufacturer’s requirements and conditions for the intended use.

4. 3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration date	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2010/03/14	2011/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2010/03/14	2011/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2010/03/14	2011/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2010/03/14	2011/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2010/03/14	2011/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2010/03/14	2011/03/14
7	Bilog Antenna	Sunol	JB3	A121206	2010/03/14	2011/03/14
8	Test Antenna - Horn	Schwarzbeck	BBHA 9120C	--	2010/03/14	2011/03/14
9	Test Antenna - LOOP	Schwarzbeck	VULB 9163	--	2010/03/14	2011/03/14
10	Cable	Resenberger	N/A	NO.1	2010/03/14	2011/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2010/03/14	2011/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2010/03/14	2011/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2010/03/14	2011/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2010/03/14	2011/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2010/03/14	2011/03/14
16	Spectrum Analyzer	Agilent	4408B	MY41440460	2010/03/14	2011/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2010/03/14	2011/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2010/03/14	2011/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2010/03/14	2011/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2010/03/14	2011/03/14
21	Line Impedence Network	Kikusui	LIN40MA-PCR-L	LM002352	2010/03/14	2011/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2010/03/14	2011/03/14
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2010/03/14	2011/03/14
24	Signal Generator	IFR	2032	203002/100	2010/03/14	2011/03/14
25	Amplifier	A&R	150W1000	301584	2010/03/14	2011/03/14
26	CDN	FCC	FCC-801-M2-25	47	2010/03/14	2011/03/14
27	CDN	FCC	FCC-801-M3-25	107	2010/03/14	2011/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2010/03/14	2011/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2010/03/14	2011/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2010/03/14	2011/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2010/03/14	2011/03/14
32	Temperature Chamber	Guangzhou Gongwen	GDS-250	N/A	2010/03/14	2011/03/14

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 15 C Requirements

5.1 RADIATED EMISSION

5.1.1 Definition

The field strength of any emission within this band shall not exceed 10000 micro volts /meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.

1. The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit), as below.

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

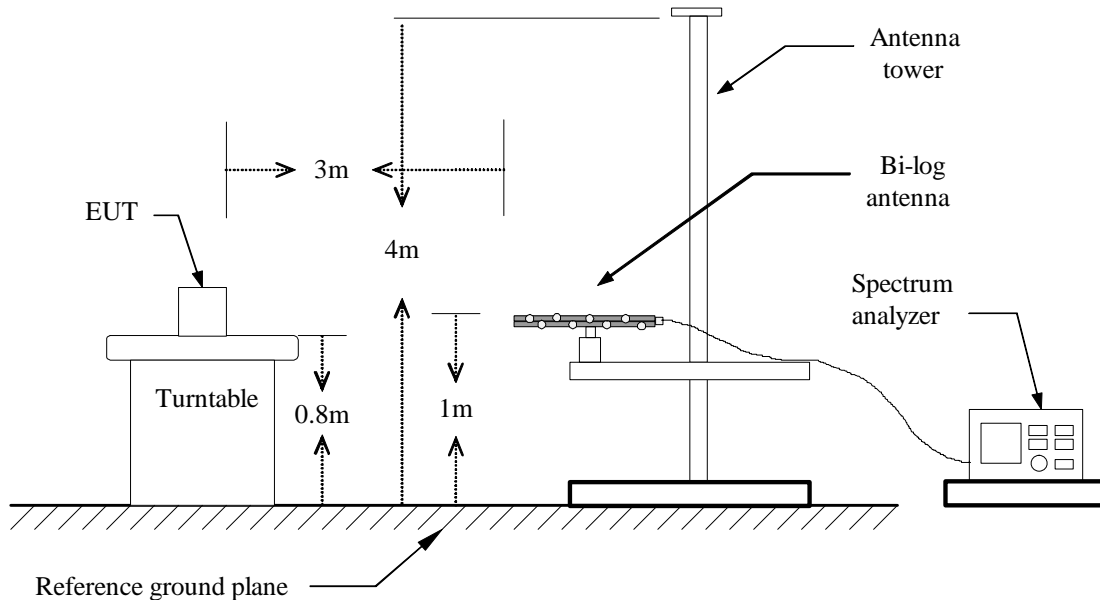
Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (µV/m at 3-meter)	Test Distance (m)	Field Strength (dBµV/m at 3-meter)
1.705-30	30	3	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54
Fundamental	250	3	48

5.1.2 Test Configuration

Test Setup:



5.1.3 Test Description

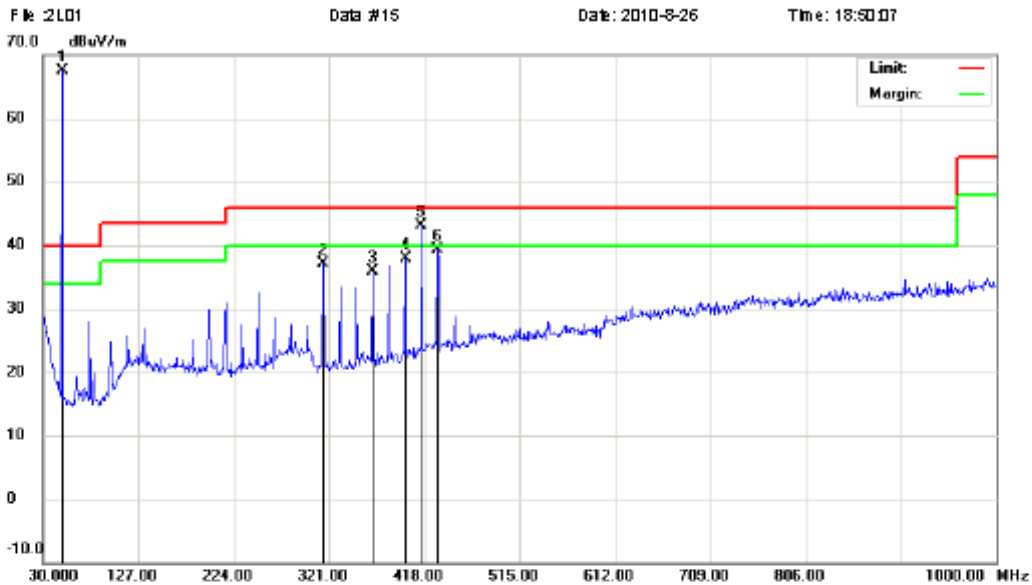
1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
 - Below 1GHz: RBW=100 kHz / VBW=300 kHz / Sweep=AUTO
 - Above 1GHz : (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

5.1.4 Test Result



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site site MOST 3M Polarization: *Horizontal* Temperature: 26
 Limit: FCC Part15 B 3M Radiation Power: AC 120V60Hz Humidity: 60 %
 EUT: Baby monitor Distance:
 M/N: 2L01-TX
 Mode: Normal Working
 Note: 49.83MHz

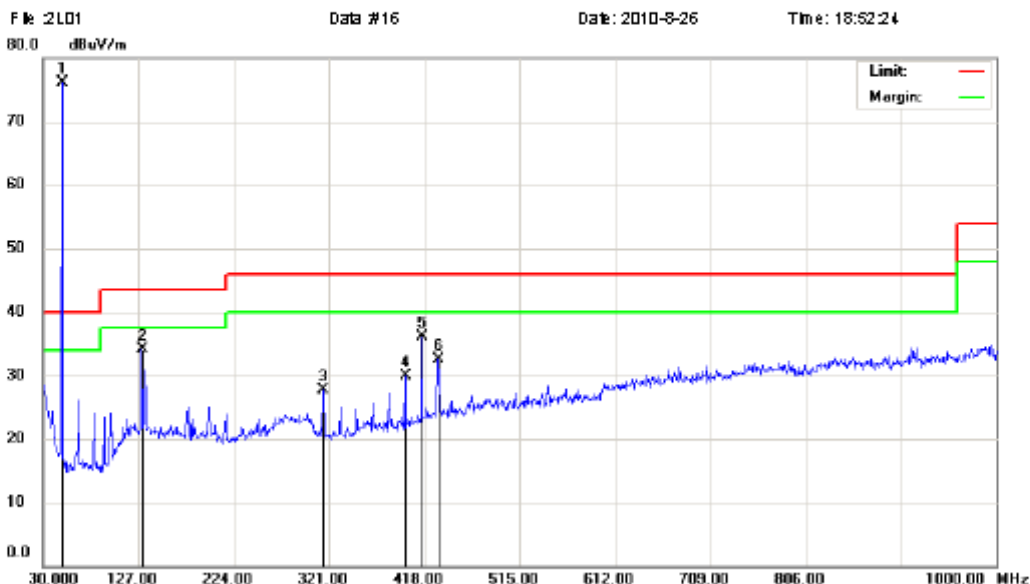
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	49.8300	55.87	11.58	67.45	80.00	-12.55	peak			
2		315.1800	20.37	16.81	37.18	46.00	-8.82	peak			
3		365.6200	17.68	18.24	35.92	46.00	-10.08	peak			
4		398.6000	19.19	18.66	37.85	46.00	-8.15	peak			
5	!	415.0899	23.60	19.46	43.06	46.00	-2.94	QP			
6		431.5799	19.03	20.32	39.35	46.00	-6.65	peak			

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
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Radiated Emission Measurement



Site site MOST 3M Polarization: **Vertical** Temperature: 25
 Limit: FCC Part15 B 3M Radiation Power: AC 120V60Hz Humidity: 60 %
 EUT: Baby monitor Distance:
 MN: 2L01-TX
 Mode: Normal Working
 Note: 49.83MHz

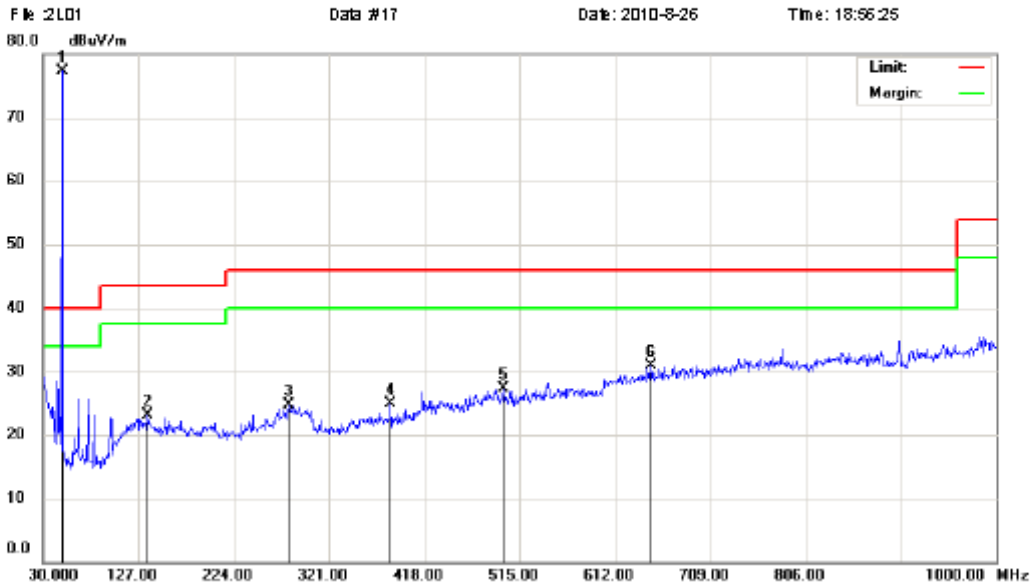
No. Mk.	Freq. MHz	Reading Level dBV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1 *	49.830	64.56	11.58	76.14	80.00	-3.86	peak			
2	129.9100	16.44	17.70	34.14	43.50	-9.36	peak			
3	315.1800	10.85	16.81	27.66	46.00	-18.34	peak			
4	398.6000	11.16	18.66	29.82	46.00	-16.18	peak			
5	415.0900	16.56	19.46	36.02	46.00	-9.98	peak			
6	431.5800	12.18	20.32	32.50	46.00	-13.50	peak			

*:Maximum data x:Over limit !:over margin



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 Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site site MOST 3M Polarization: **Vertical** Temperature: 25
 Limit: FCC Part15 B 3M Radiation Power: AC 120V60Hz Humidity: 60 %
 EUT: Baby monitor Distance:
 MN: 2L01-TX
 Mode: Normal Working
 Note: 49.875MHz

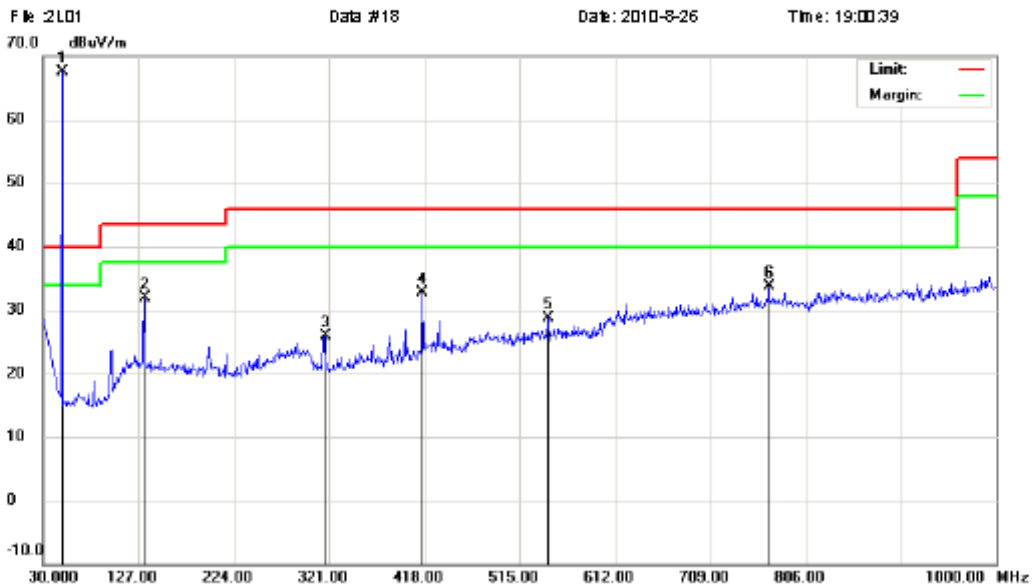
No. Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measurement dBμV/m	Limit dBμV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1 *	49.8750	65.66	11.58	77.24	80.00	-2.76	peak			
2	136.6999	5.78	17.37	23.15	43.50	-20.35	peak			
3	280.2599	5.26	19.40	24.66	46.00	-21.34	peak			
4	384.0500	6.64	18.18	24.82	46.00	-21.18	peak			
5	498.5099	5.95	21.43	27.38	46.00	-18.62	peak			
6	648.8600	6.72	24.09	30.81	46.00	-15.19	peak			

*:Maximum data x:Over limit !:over margin



Address: No. 5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site site MOST 3M Polarization: *Horizontal* Temperature: 25
 Limit: FCC Part15 B 3M Radiation Power: AC 120V60Hz Humidity: 60 %
 EUT: Baby monitor Distance:
 MN: 2L01-TX
 Mode: Normal Working
 Note: 49.875MHz

No. Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measurement dBμV/m	Limit dBμV/m	Over dB	Detector	Antenna Height cm	Table Degree	Comment
1 *	49.8750	55.87	11.58	67.45	80.00	-12.55	peak			
2	132.8200	14.28	17.56	31.84	43.50	-11.66	peak			
3	316.1500	8.98	16.85	25.83	46.00	-20.17	peak			
4	416.0600	13.16	19.57	32.73	46.00	-13.27	peak			
5	544.1000	6.34	22.28	28.62	46.00	-17.38	peak			
6	768.1700	7.76	25.86	33.62	46.00	-12.38	peak			

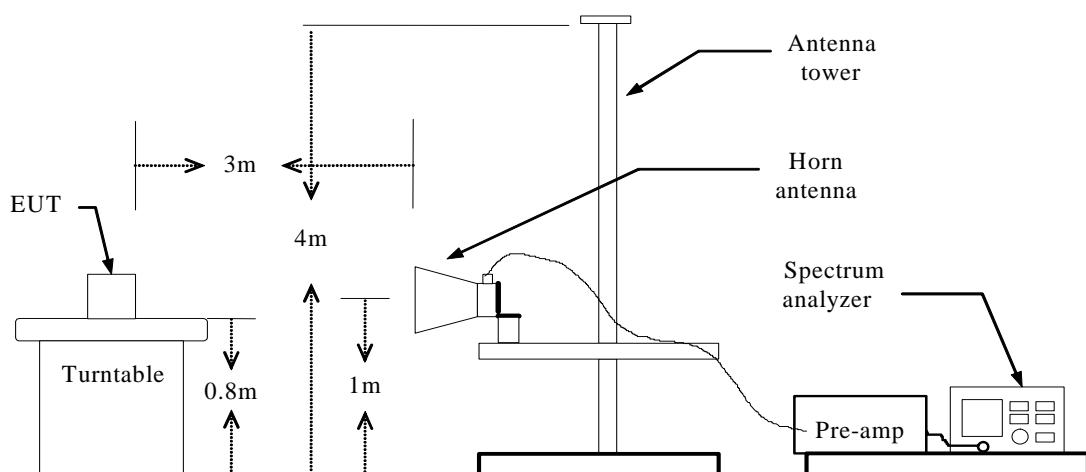
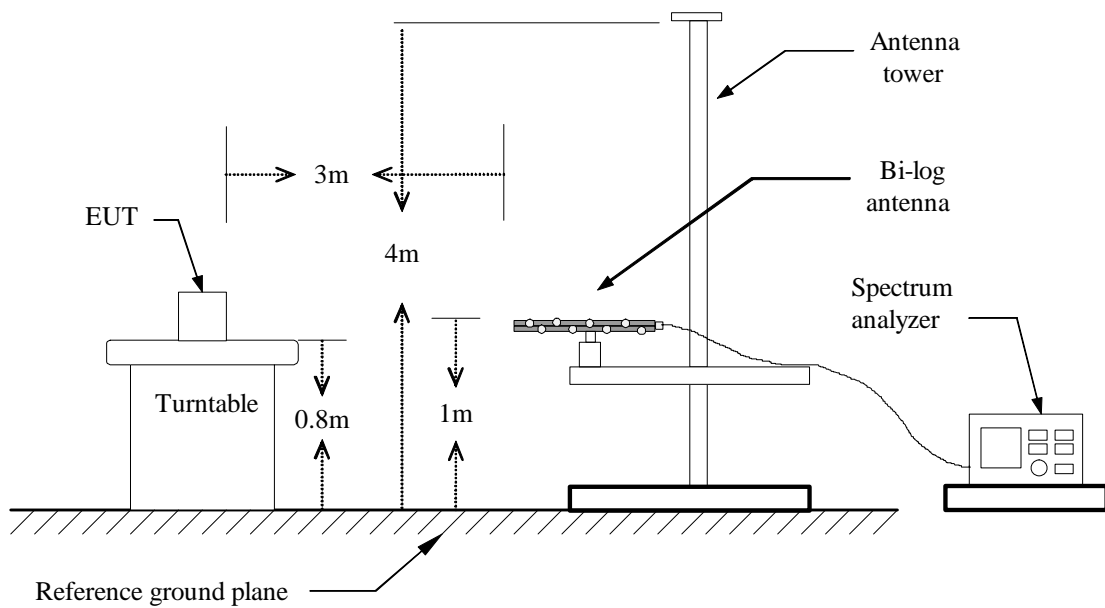
*:Maximum data x:Over limit !:over margin

5.2 BAND EDGE

5.2.1 Requirement

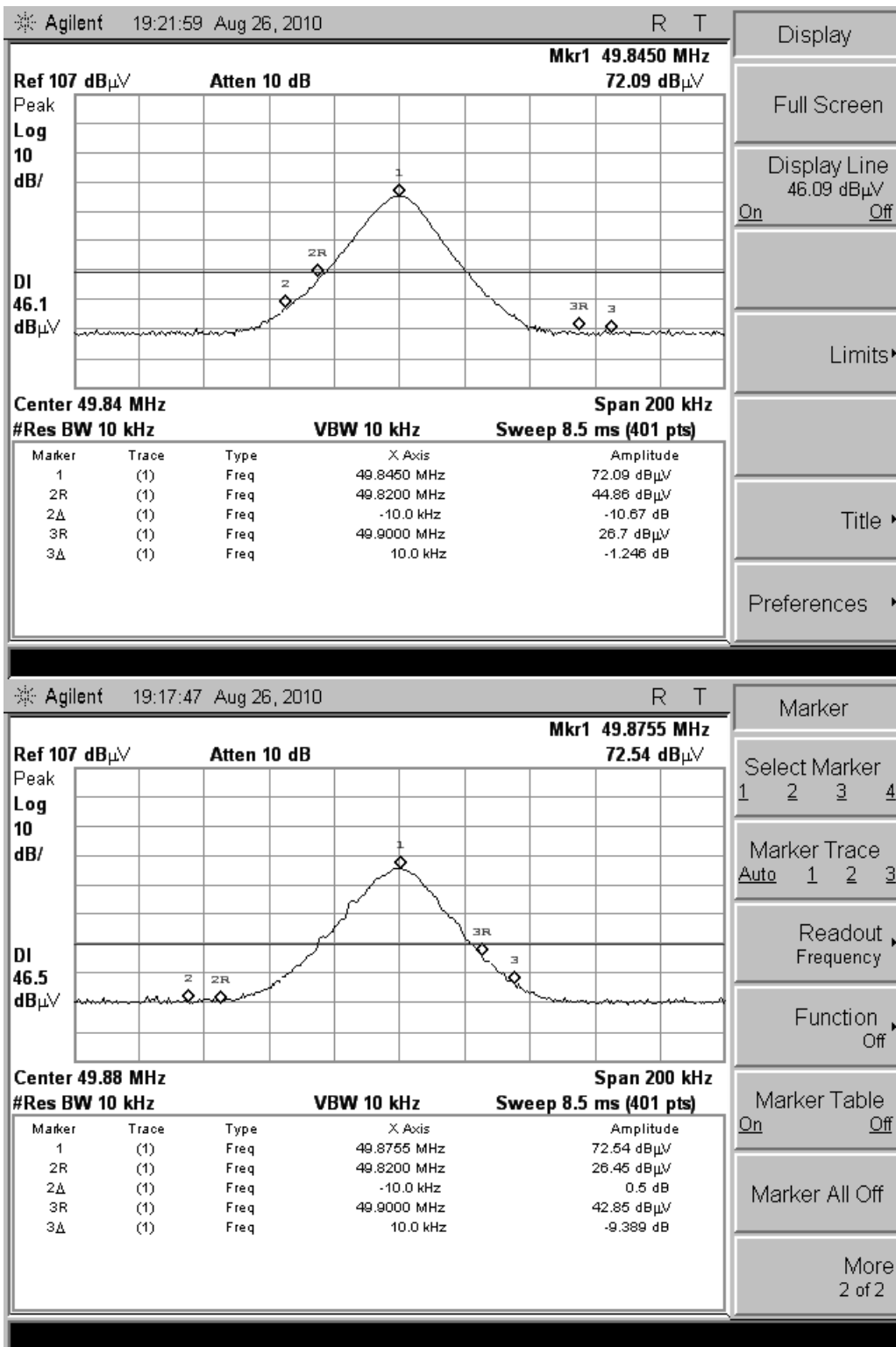
According to FCC section 15.235(b), the field strength of any emissions appearing between the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 26 dB below the level of the unmodulated carrier or to the general limits in Section 15.209, whichever permits the higher emission levels.

5.2.2 Test Description



5.2.3 Test Result

Test Plot:



5.3 ANTENNA REQUIREMENT

5.3.1 Definition

An analysis of the 2L01 was performed to determine compliance with FCC Section 15.203. This section requires specific handling and control of antennas used for devices subject to regulations.

5.3.2 Evaluation Procedure

The structure and application of the 2L01 was analyzed with respect to the rules. The antenna is an internal antenna, and is not accessible to the user. An auxiliary antenna port is not present.

5.3.3 Evaluation Criteria

Section 15.203 of the rules states that the subject device must meet at least one of the following criteria:

- (a) Antenna must be permanently attached to the unit.
- (b) Antenna must use a unique type of connector to attach to the EUT.
- (c) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

5.3.4 Evaluation Results

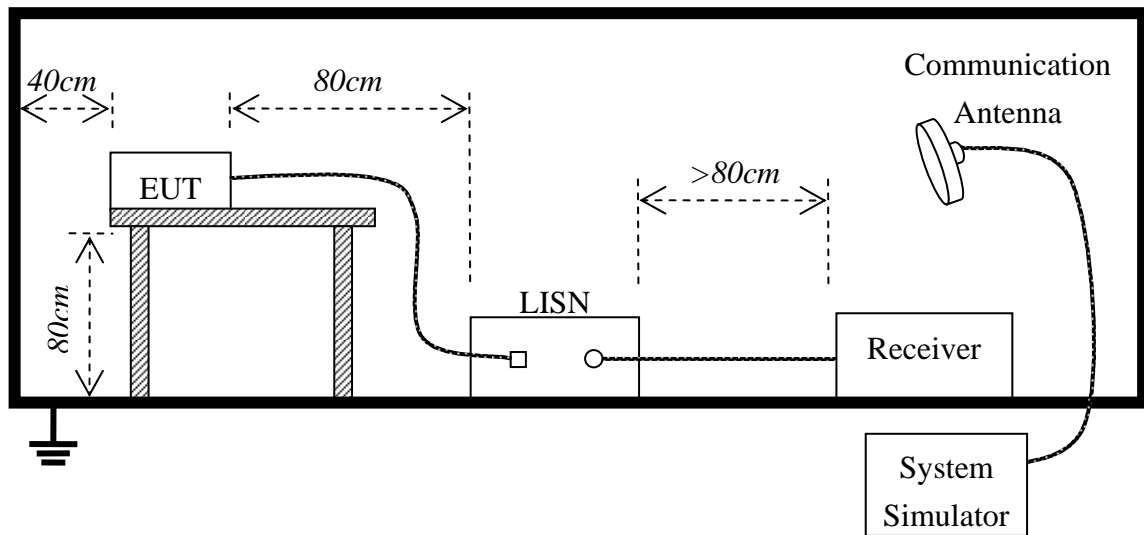
The 2L01 meets the criteria of this rule by virtue of having an internal antenna inaccessible to the user. The EUT is therefore compliant.

5.4 POWER LINE CONDUCTED EMISSION TEST
5.4.1 LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

- **Note:** 1. the lower limit shall apply at the transition frequency.
 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

5.4.2 BLOCK DIAGRAM OF TEST SETUP



5.4.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user’s manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test				
Frequency Range Investigated		150KHz TO 30 MHz		
Mode of operation	Date	Report No.	Data#	Worst Mode
Normal Working	2010-8-26	MOST100807F2	2L01_(L, N)	■

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

5.4.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.

A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

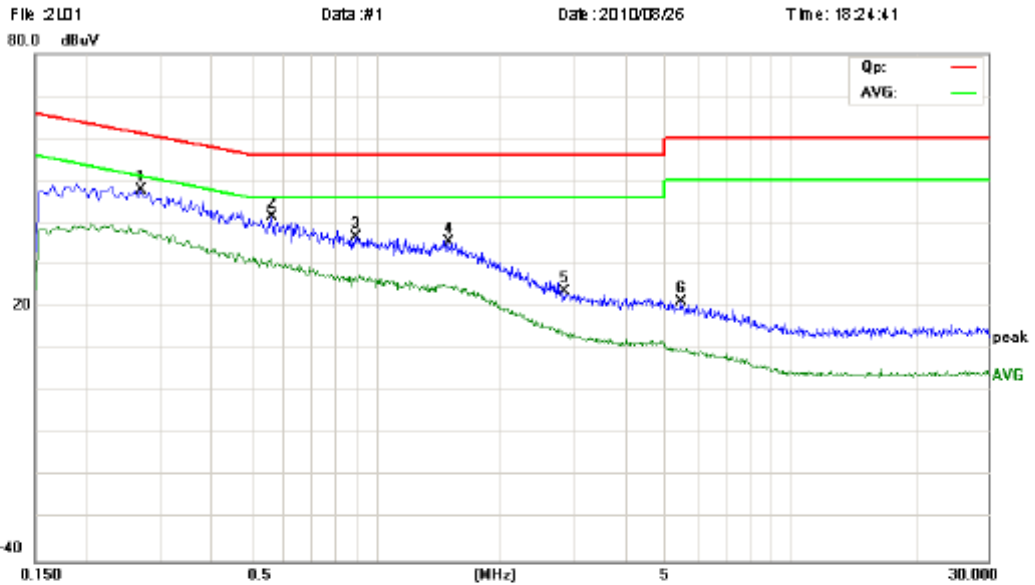
The test data of the worst case condition(s) was reported on the Summary Data page.

5.4.5 TEST RESULT OF LINE CONDUCTED EMISSION TEST



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site site #1 Phase: **L1** Temperature: 26
 Limit: EN55022 Class B QP Power: AC 120V/60Hz Humidity: 60 %
 EUT: Baby Monitor
 M/N: 2L01
 Mode: Normal Working
 Note:

No.	Mk.	Freq. MHz	Reading Level dBµV	Correct Factor dB	Measure- ment dBµV	Limit dBµV	Over dB	Detector	Comment
1	*	0.2700	36.27	11.53	47.80	61.12	-13.32	peak	
2		0.5580	31.55	10.00	41.55	56.00	-14.45	peak	
3		0.8860	26.69	10.00	36.69	56.00	-19.31	peak	
4		1.4900	26.04	9.51	35.55	56.00	-20.45	peak	
5		2.8260	13.91	9.83	23.74	56.00	-32.26	peak	
6		5.4260	9.57	11.74	21.31	60.00	-38.69	peak	

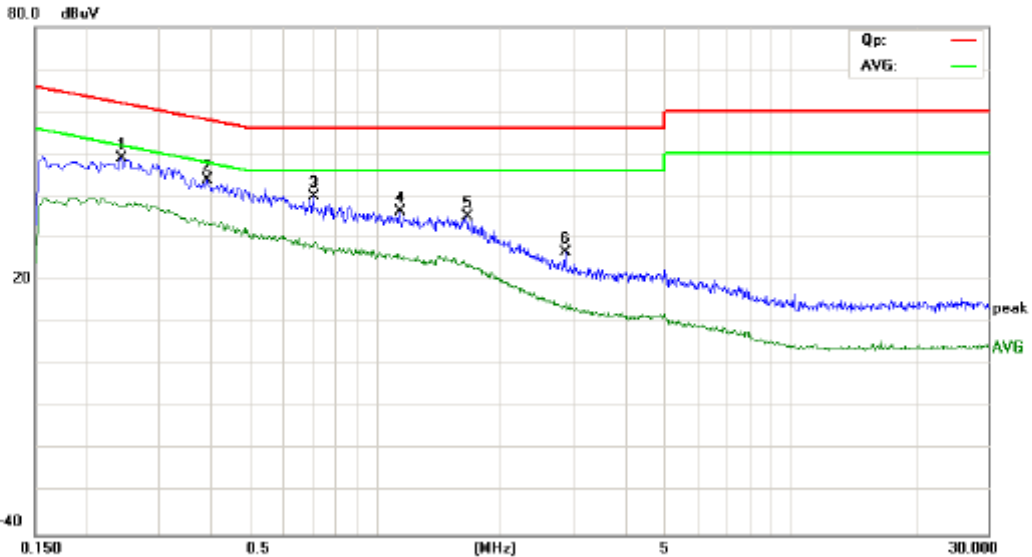
*:Maximum data x:Over limit !:over margin



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park
 Guangdong, China
 Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement

File: 2L01 Data: #2 Date: 2010/08/26 Time: 18:26:21



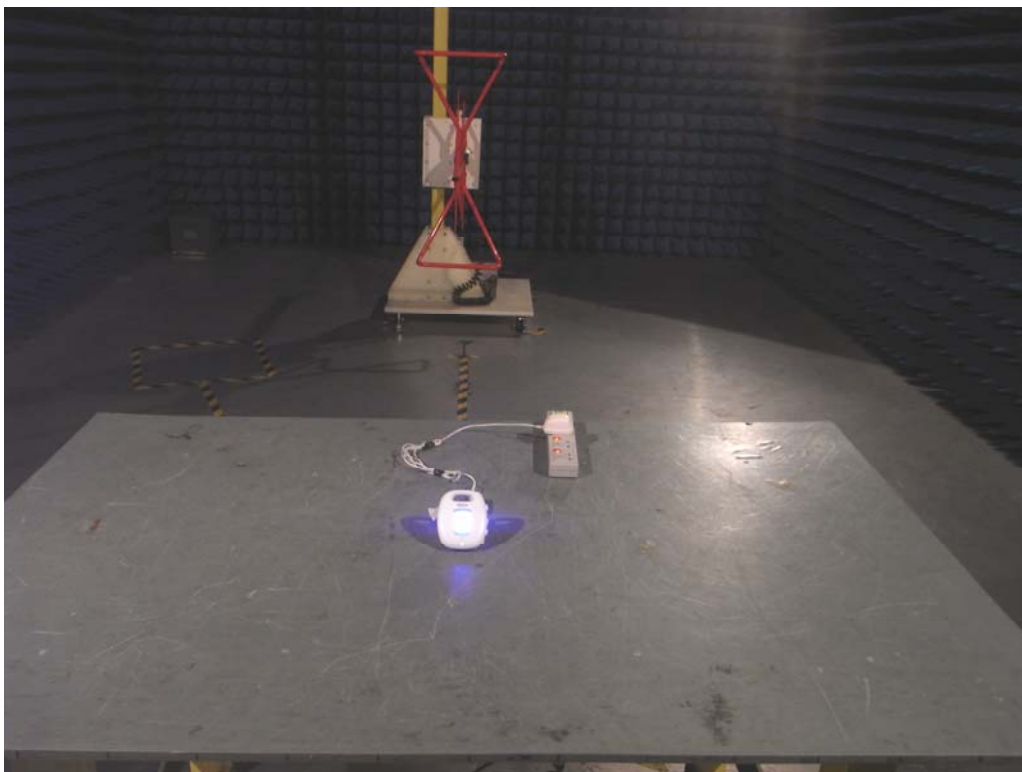
Site site #1 Phase: **N** Temperature: 26
 Limit: EN55022 Class B GP Power: AC 120V,60Hz Humidity: 60 %
 EUT: Baby Monitor
 M/N: 2L01
 Mode: Normal Working
 Note:

No.	Mk.	Freq. MHz	Reading Level dBµV	Correct Factor dB	Measure- ment dBµV	Limit dBµV	Over dB	Detector	Comment
1	*	0.2420	37.17	11.72	48.89	62.03	-13.14	peak	
2		0.3900	33.21	10.73	43.94	58.06	-14.12	peak	
3		0.7020	29.89	10.00	39.89	56.00	-16.11	peak	
4		1.1380	26.40	9.86	36.26	56.00	-19.74	peak	
5		1.6540	25.93	9.35	35.28	56.00	-20.72	peak	
6		2.8660	16.78	9.87	26.65	56.00	-29.35	peak	

*:Maximum data x:Over limit !:over margin

APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

RE TEST SETUP



CE TEST SETUP



**APPENDIX 2
PHOTOGRAPHS OF EUT**

FRONT VIEW OF SAMPLE



BACK VIEW OF SAMPLE



LEFT VIEW OF SAMPLE



RIGHT VIEW OF SAMPLE



BOTTOM VIEW OF SAMPLE



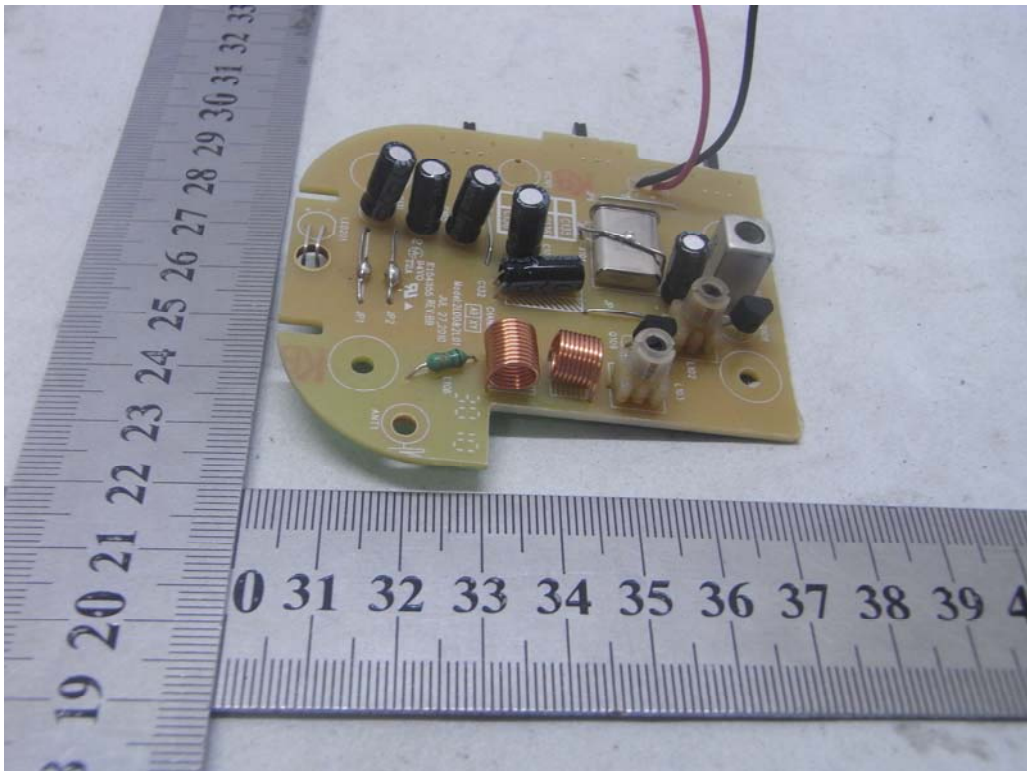
VIEW OF THE ADAPTER



VIEW OF ENTIRE SAMPLE



INTERNAL PHOTO OF SAMPLE - 1



INTERNAL PHOTO OF SAMPLE - 2

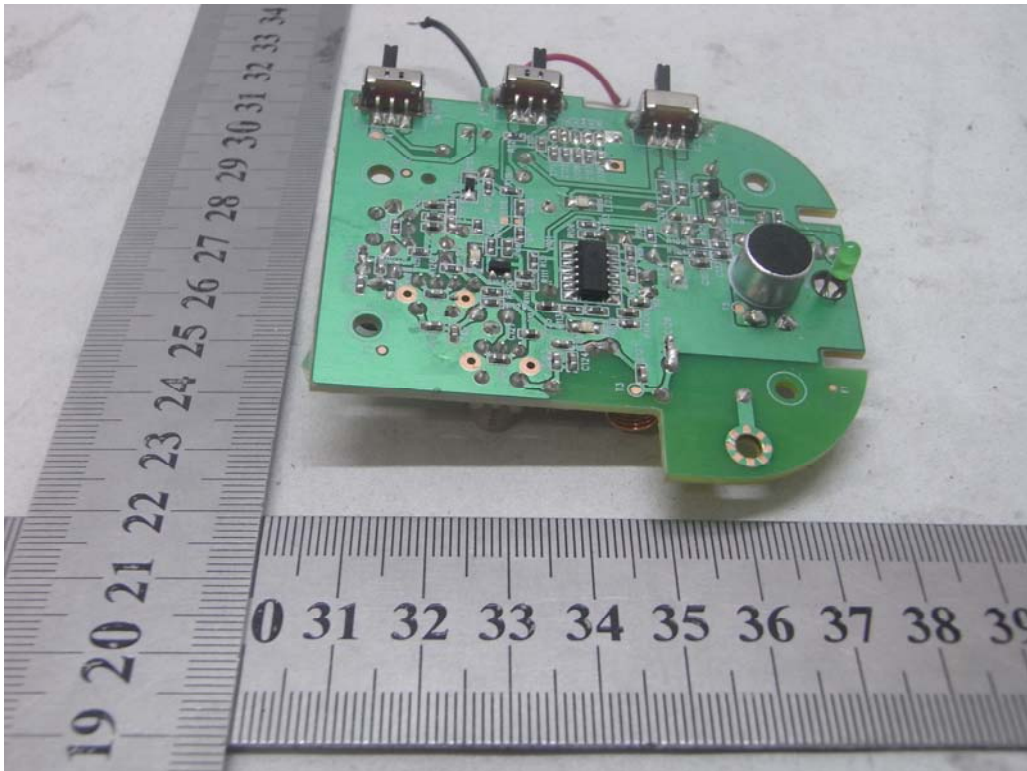
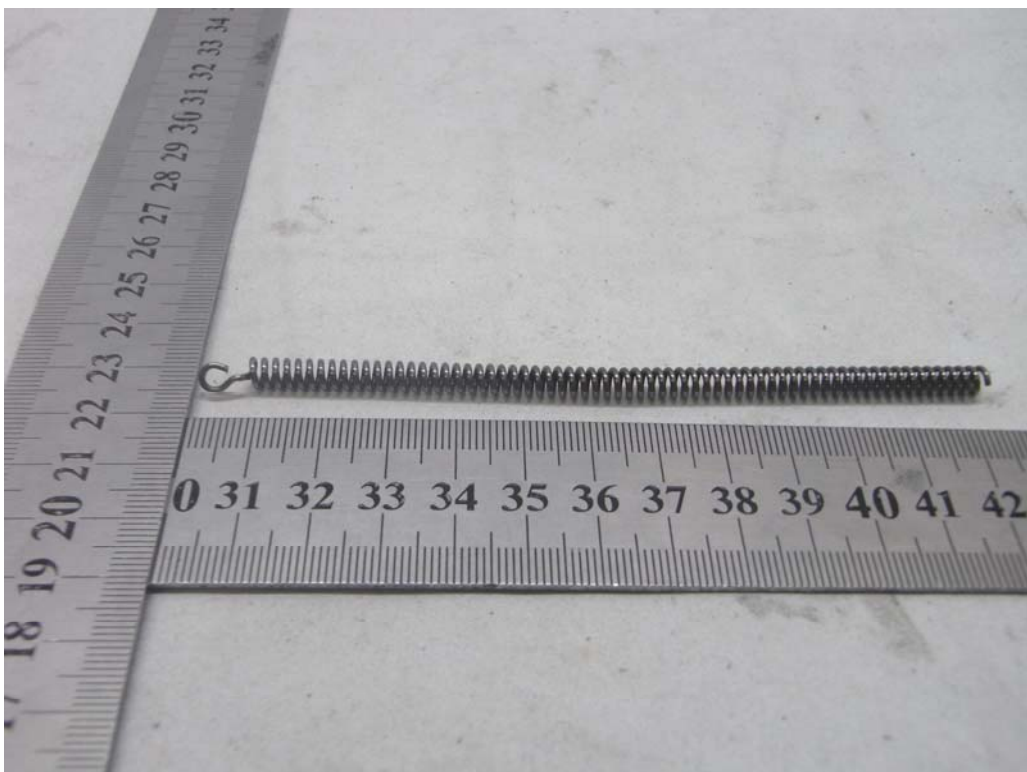
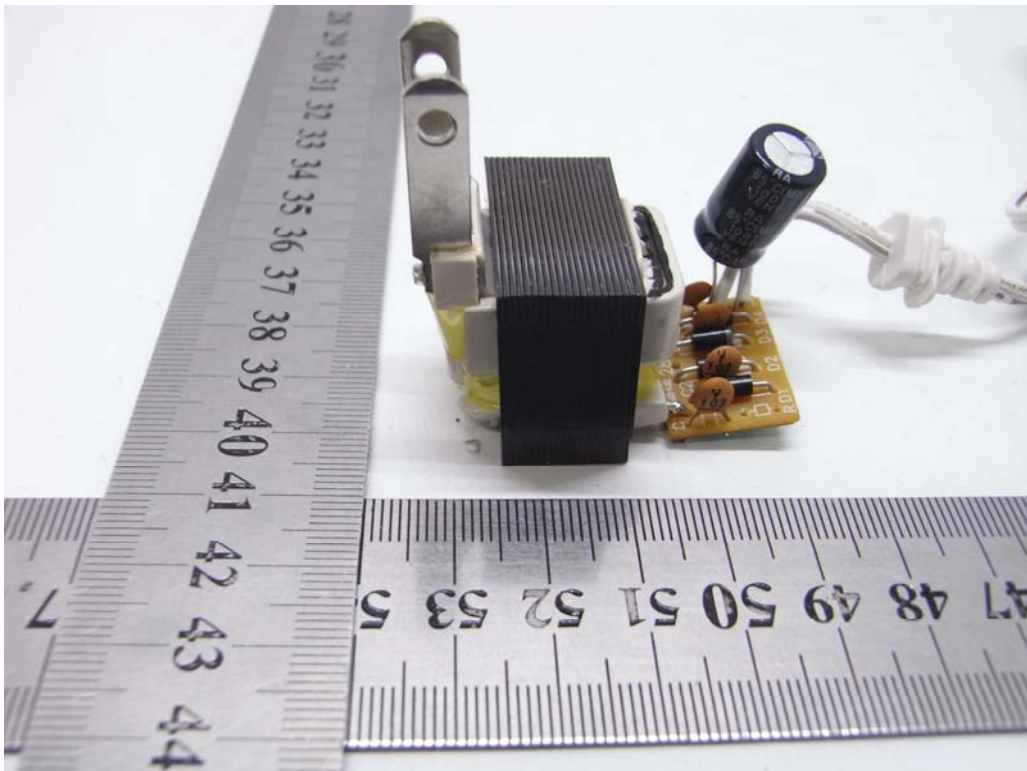
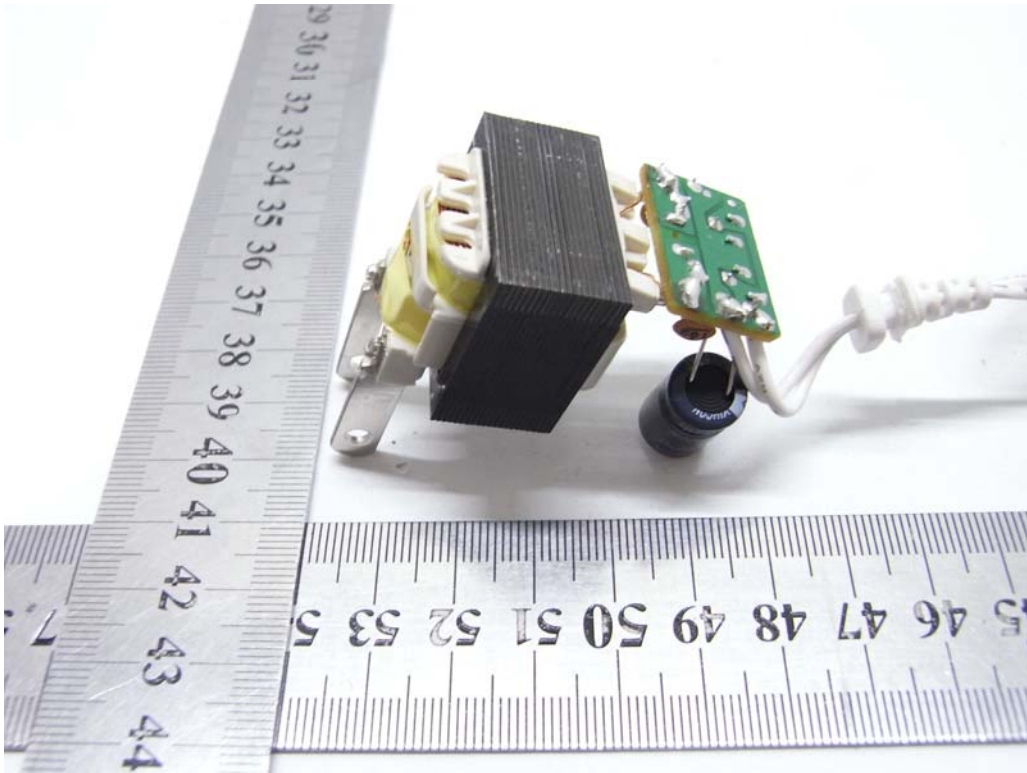


PHOTO OF ANTENNA



INTERNAL PHOTO OF ADAPTER



-----END OF REPORT-----