



NVLAP LAB CODE 200707-0



FCC PART 15.249 EMI MEASUREMENT AND TEST REPORT

For

Shenzhen Gospel Smarthome Electronic Co., Ltd

West, 5F/Block2, Vision (SZ) Park, South HI-Tech Park, Nanshan,
Shenzhen, P.R. of China

FCC ID: TW5GA8209

This Report Concerns: <input checked="" type="checkbox"/> Original Report		Equipment Type: 900MHz Wireless Baby Monitor
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Report No.:	RSZ07112802	
Test Date:	2007-12-29 to 2008-01-04	
Report Date:	2008-01-08	
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Note: This test report is for the customer shown above and their specific product only. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen) This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Shenzhen Gospell Smarthome Electronic Co., Ltd*'s product, model number: GA8209 the "EUT" as referred to in this report is a 900MHz Wireless Baby Monitor, which measures approximately 4.5 cmL x 8.5cmW x 13.5cmH, rated input voltage: DC 8V adapter.

AC/DC Adapter:

Manufacturer: Shenzhen Gospell Smarthome Electronic Co., Ltd

Model: GP006DU

Input: 100 ~ 240V 50/60Hz 0.3A

Output: 8V DC 500 mA 4VA Max LPS

** All measurement and test data in this report was gathered from production sample serial number: 0711036 (Assigned by BACL, Shenzhen). The EUT was received on 2007-11-28.*

Objective

This Type approval report is prepared on behalf of *Shenzhen Gospell Smarthome Electronic Co., Ltd* in accordance with Part 2, Subpart J, and Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.249 rules.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



NVLAP LAB CODE 200707-0

The current scope of accreditations can be found at
<http://ts.nist.gov/Standards/scopes/2007070.htm>

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

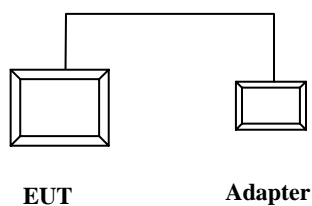
Equipment Modifications

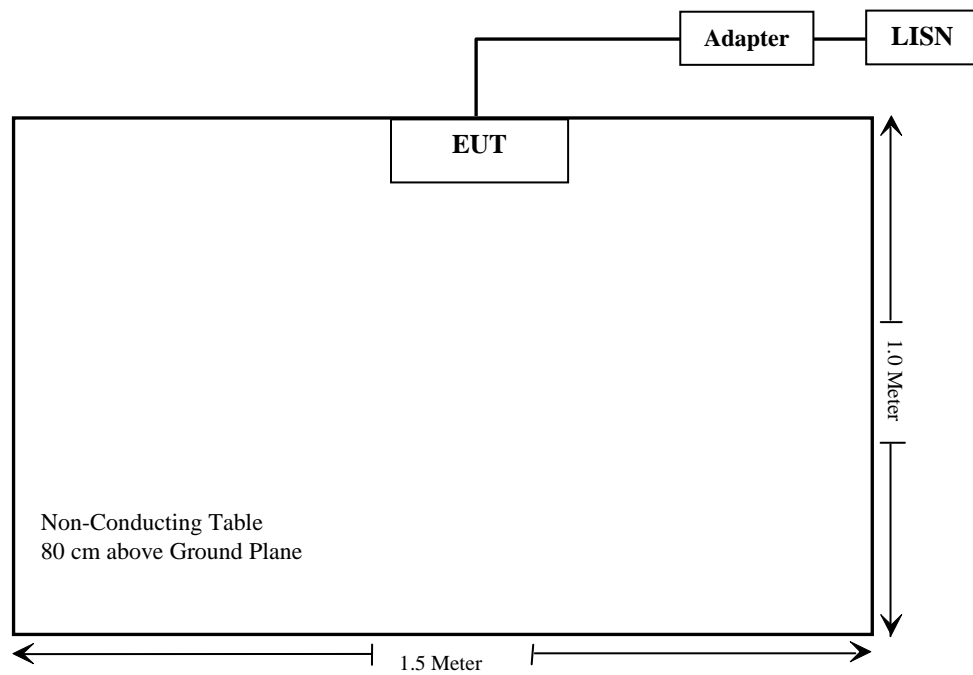
No modifications were made to the unit tested.

External I/O Cable

Cable Description	Length (M)	From/Port	To
Unshielded Detachable DC Power Cable	1.75	EUT	Adapter

Configuration of Test Setup



Block Diagram of Test Setup

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.207(a)	Conduction Emissions	Compliant
§15.205(a), §15.209(a), 15.249(a), §15.249(c)	Radiated Emissions	Compliant*
§15.249(d)	Out of Band Emissions	Compliant

* *Within measurement uncertainty*

§15.203 - ANTENNA REQUIREMENT

Applicable Standard

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.

Antenna Connector Construction

The EUT antenna is a permanently attached antenna, which in accordance to section 15.203, is considered sufficient to comply with the provisions of this section.

Result: Compliant.

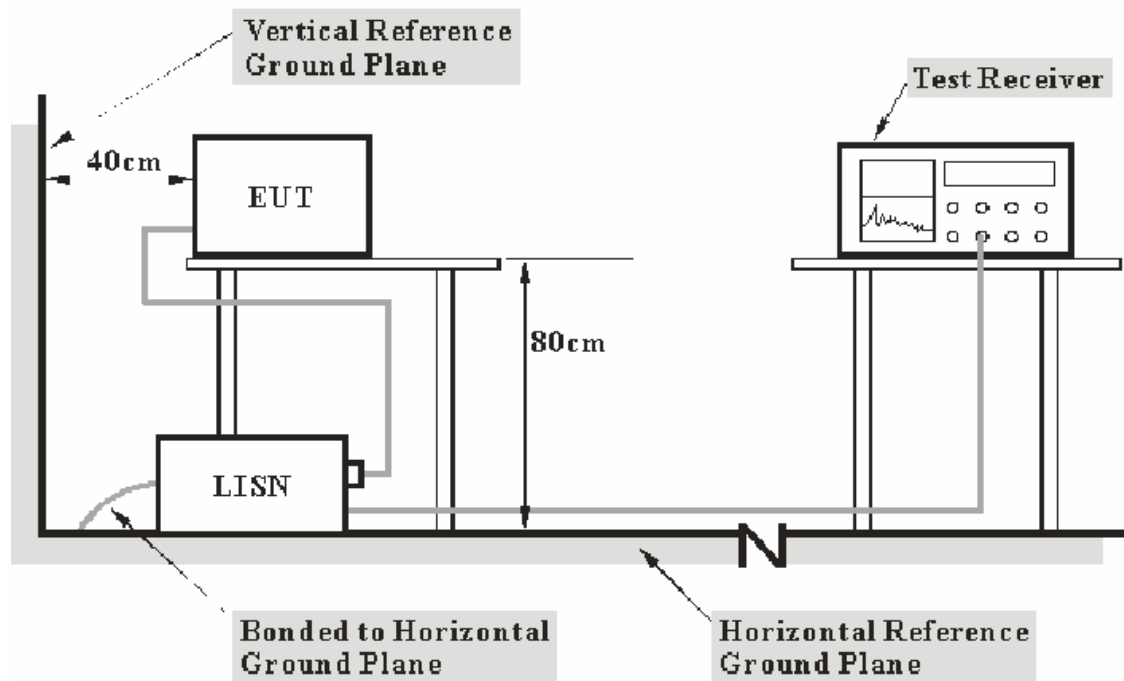
§15.207 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 2.4 dB.

EUT Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15 .207 limits.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

<i>Frequency Range</i>	<i>IFBW</i>
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12208	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCS30	DE25330	2007-03-26	2008-03-26
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2007-03-26	2008-03-26

* Com-Power's LISN were used as the supporting equipment.

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

13.07dB at 0.445 MHz in the **Hot** conductor mode, **Channel 1**
8.30 dB at 28.615 MHz in the **Hot** conductor mode, **Channel 2**

Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	55%
ATM Pressure:	100.0kPa

The testing was performed by Phoenix Liu on 2008-01-04.

Test Mode: Transmitting

Channel 1

Line Conducted Emissions				FCC Part 15 .207	
Frequency (MHz)	Amplitude (dBμV)	Detector (QP/AV)	Conductor (Hot/Neutral)	Limit (dBμV)	Margin (dB)
0.445	43.90	QP	Hot	56.97	13.07
0.635	41.10	QP	Hot	56.00	14.90
0.445	40.90	QP	Neutral	56.97	16.07
0.565	39.90	QP	Hot	56.00	16.10
0.430	40.90	QP	Neutral	57.25	16.35
0.505	39.60	QP	Hot	56.00	16.40
0.635	39.10	QP	Neutral	56.00	16.90
28.025	42.70	QP	Neutral	60.00	17.30
0.365	40.80	QP	Hot	58.61	17.81
0.820	37.70	QP	Neutral	56.00	18.30
0.445	26.00	AV	Hot	46.97	20.97
0.315	38.80	QP	Hot	59.84	21.04
0.365	27.50	AV	Hot	48.61	21.11
0.505	23.50	AV	Hot	46.00	22.50
20.445	37.40	QP	Neutral	60.00	22.60
0.565	22.80	AV	Hot	46.00	23.20
0.630	22.80	AV	Hot	46.00	23.20
0.315	24.60	AV	Hot	49.84	25.24
0.430	20.60	AV	Neutral	47.25	26.65
0.445	18.40	AV	Neutral	46.97	28.57
0.825	14.50	AV	Neutral	46.00	31.50
0.630	13.40	AV	Neutral	46.00	32.60
28.105	7.10	AV	Neutral	50.00	42.90
20.445	6.70	AV	Neutral	50.00	43.30

Channel 2

Line Conducted Emissions				FCC Part 15 .207	
Frequency (MHz)	Amplitude (dBμV)	Detector (QP/AV)	Conductor (Hot/Neutral)	Limit (dBμV)	Margin (dB)
28.615	51.70	QP	Hot	60.00	8.30
26.545	48.60	QP	Hot	60.00	11.40
0.445	45.00	QP	Hot	56.97	11.97
0.635	41.50	QP	Hot	56.00	14.50
0.440	41.20	QP	Neutral	57.06	15.86
0.650	39.00	QP	Neutral	56.00	17.00
0.190	45.60	QP	Hot	64.04	18.44
0.255	42.30	QP	Hot	61.59	19.29
28.495	40.60	QP	Neutral	60.00	19.40
25.425	40.40	QP	Neutral	60.00	19.60
0.445	27.10	AV	Hot	46.97	19.87
0.355	37.70	QP	Neutral	58.84	21.14
0.630	23.20	AV	Hot	46.00	22.80
0.190	39.60	QP	Neutral	64.04	24.44
0.440	19.90	AV	Neutral	47.06	27.16
0.190	25.40	AV	Hot	54.04	28.64
0.255	22.30	AV	Hot	51.59	29.29
0.355	18.20	AV	Neutral	48.84	30.64
28.755	18.10	AV	Hot	50.00	31.90
0.650	14.00	AV	Neutral	46.00	32.00
0.190	20.50	AV	Neutral	54.04	33.54
26.570	15.20	AV	Hot	50.00	34.80
28.495	10.20	AV	Neutral	50.00	39.80
25.425	9.60	AV	Neutral	50.00	40.40

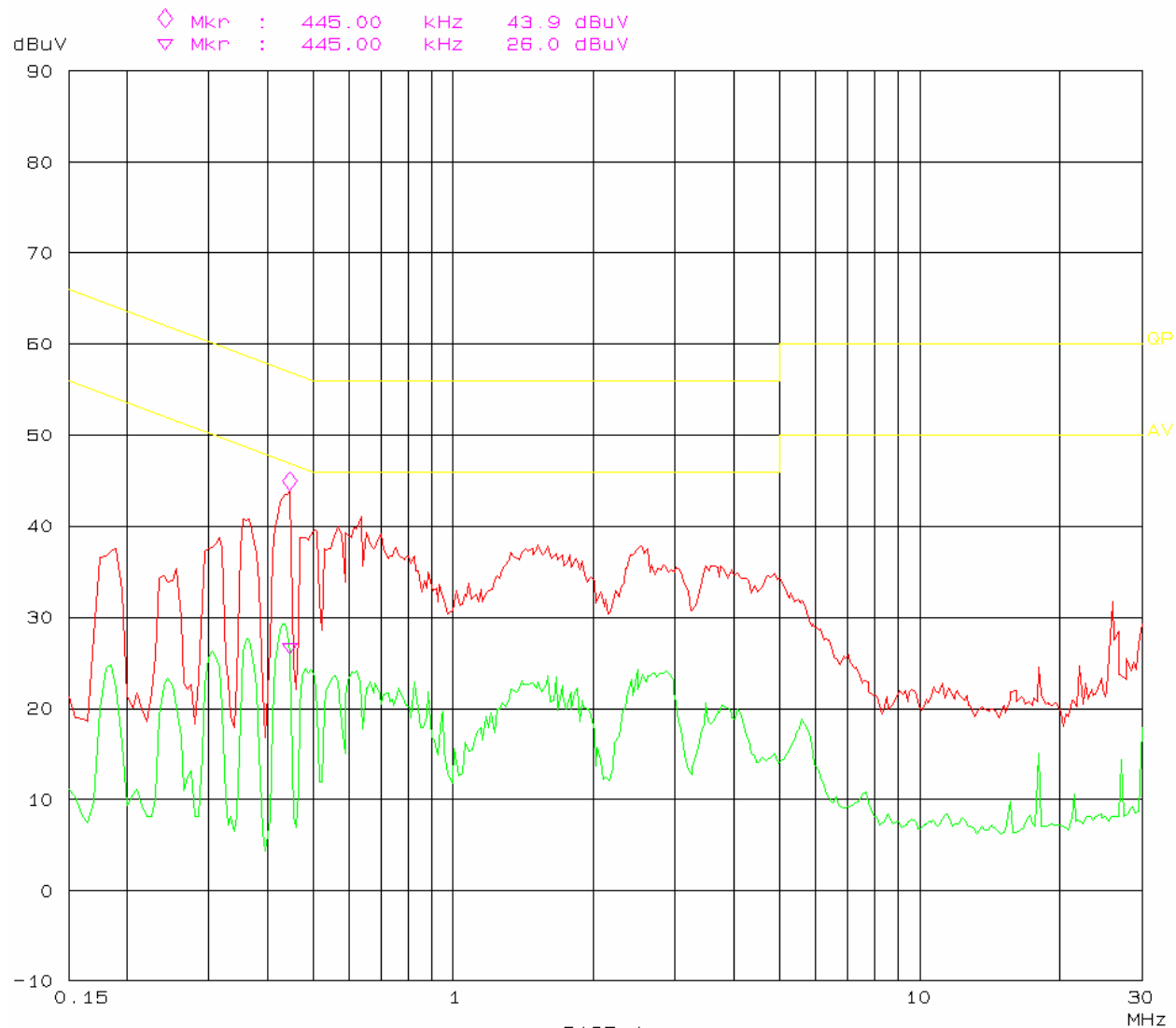
Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

CONDUCTED EMISSION TEST
FCC 15

04. Jan 08 14:35

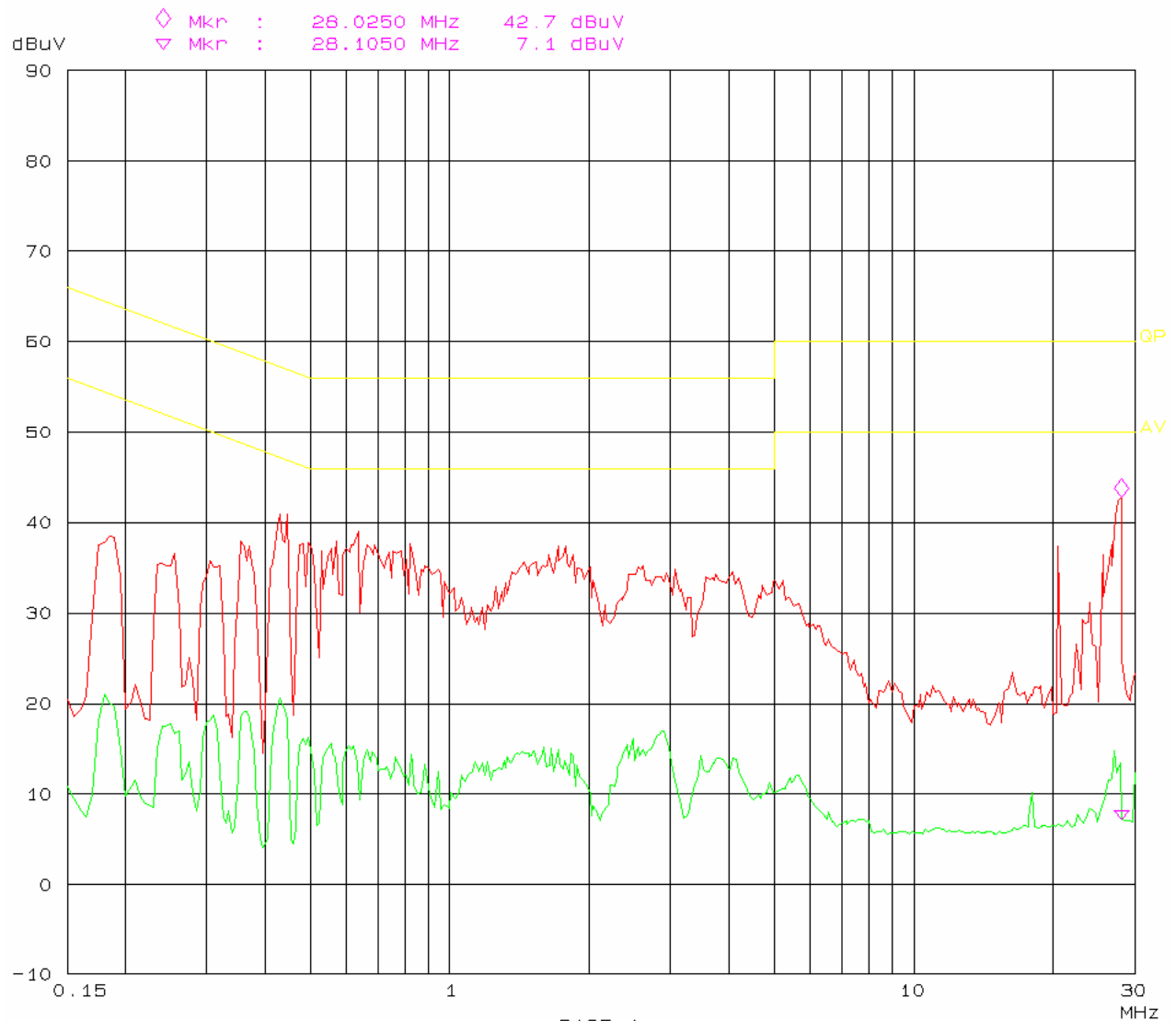
EUT: 900MHz Wireless Baby Monitor M/N: GA8209
Manuf: Gospell
Op Cond: Transmitting (CH1 High)
Operator: Amanda
Test Spec: AC120V/60Hz H
Comment: Temp: 25 Humi: 56%



CONDUCTED EMISSION TEST
FCC 15

04. Jan 08 14:21

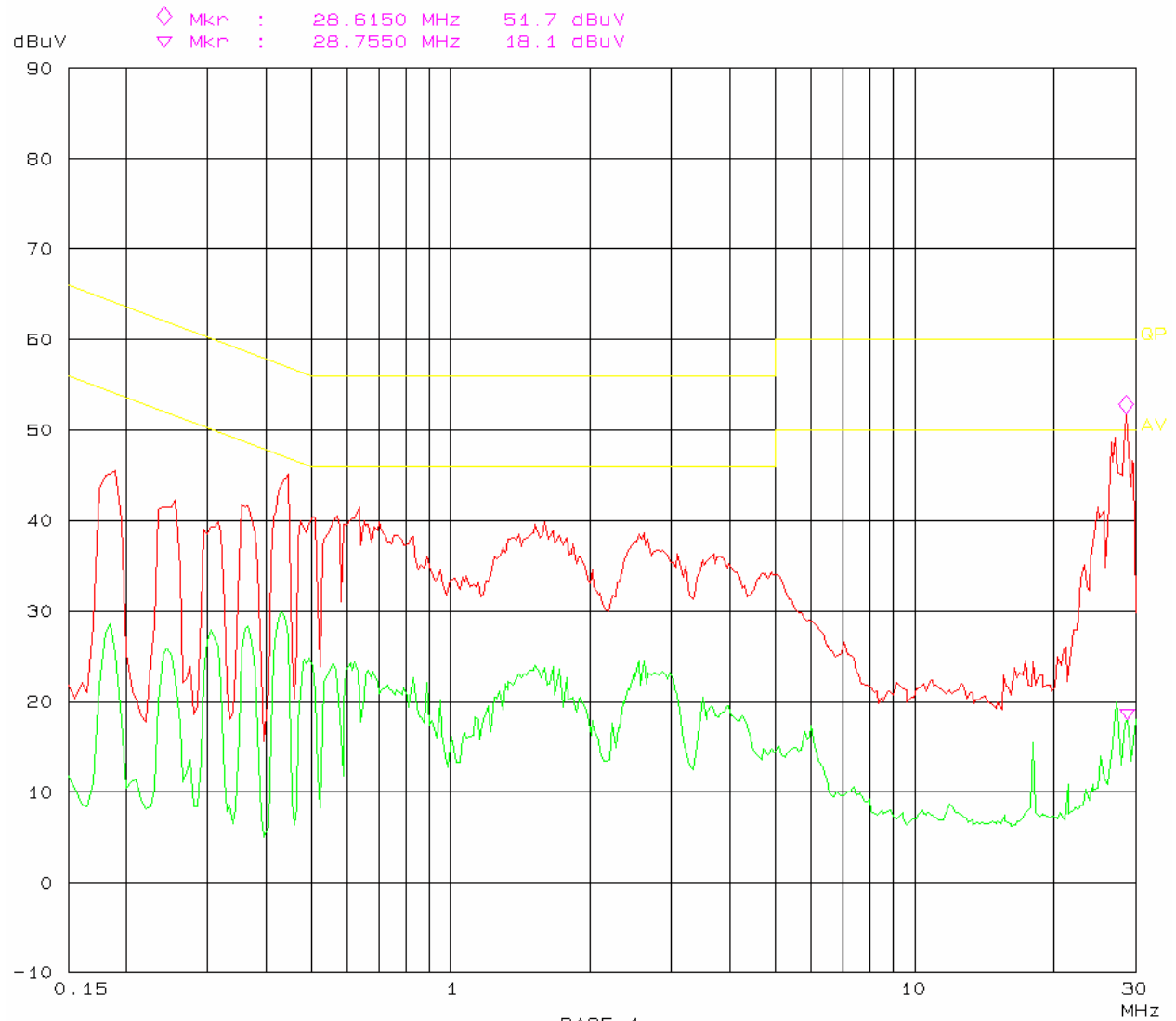
EUT: 900MHz Wireless Baby Monitor M/N: GA8209
Manuf: Gospell
Op Cond: Transmitting (CH1 High)
Operator: Amanda
Test Spec: AC120V/60Hz N
Comment: Temp: 25 Humi: 56%



CONDUCTED EMISSION TEST
FCC 15

04. Jan 08 13:38

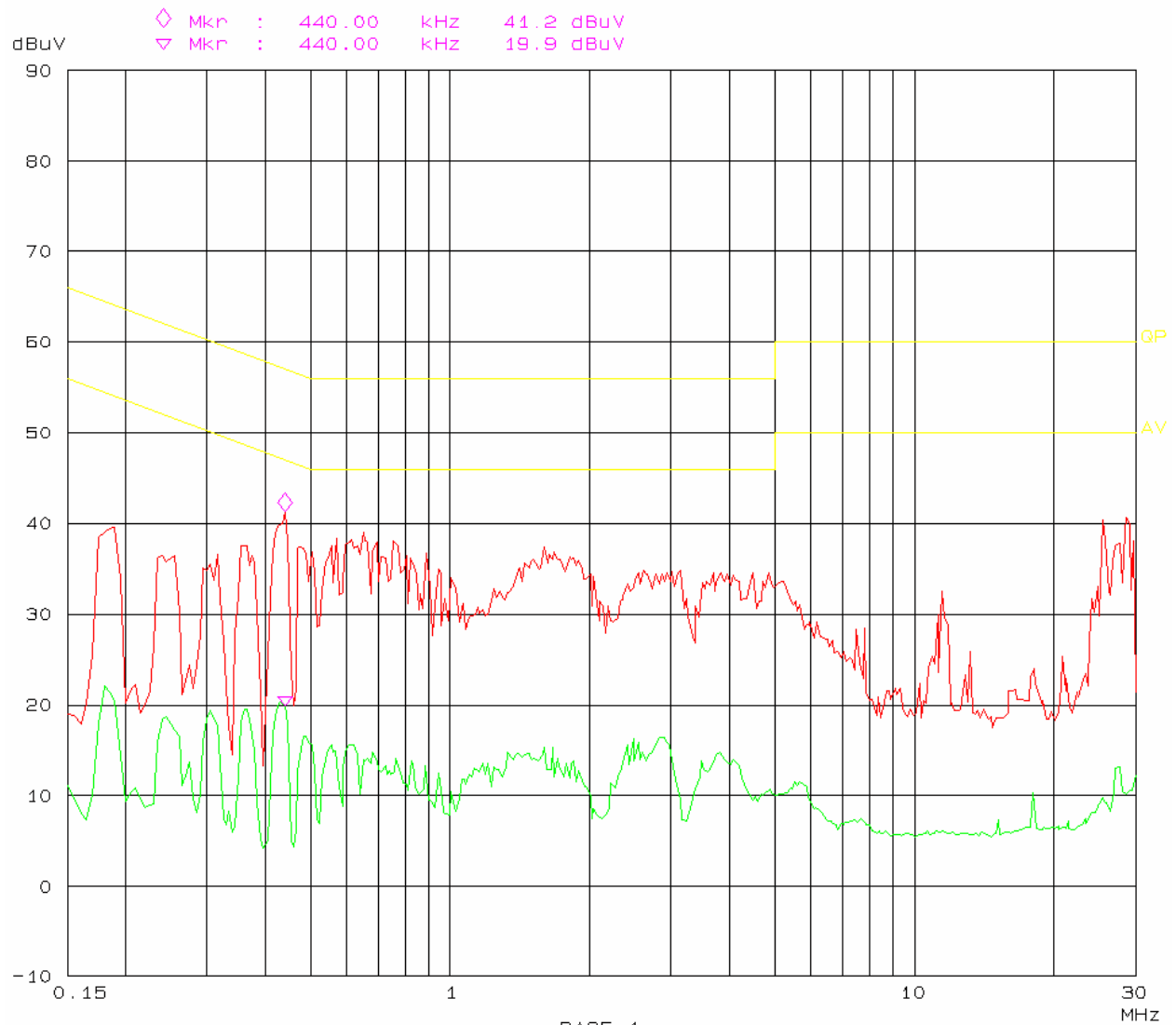
EUT: 900MHz Wireless Baby Monitor M/N: GA8209
Manuf: Gospel1
Op Cond: Transmitting (CH2 High)
Operator: Amanda
Test Spec: AC120V/60Hz H
Comment: Temp: 25 Humi: 56%



CONDUCTED EMISSION TEST
FCC 15

04. Jan 08 14:02

EUT: 900MHz Wireless Baby Monitor M/N: GA8209
Manuf: Gospell
Op Cond: Transmitting (CH2 High)
Operator: Amanda
Test Spec: AC120V/60Hz N
Comment: Temp: 25 Humi: 56%



§15.205(a) §15.209(a) §15.249(a) §15.249(d) - RADIATED EMISSIONS**Applicable Standard**

As per §15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per §15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) 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 §15.209, whichever is the lesser attenuation.

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is ± 4.0 dB.

Test Equipment Setup

The spectrum analyzer or receiver is set as:

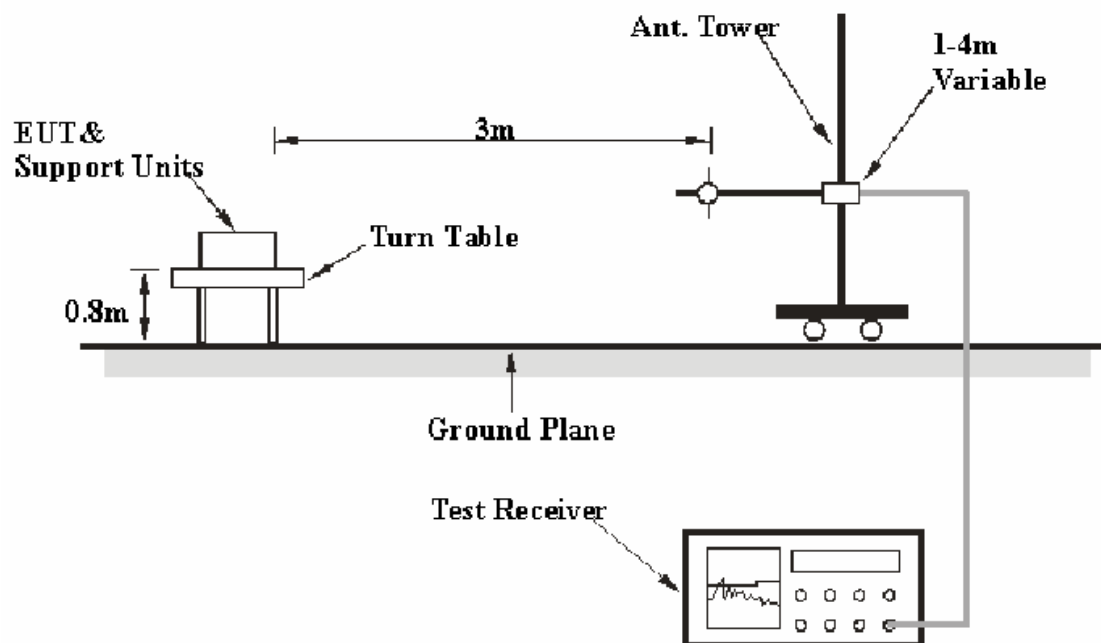
Below 1000MHz:

$$\text{RBW} = 100 \text{ kHz} / \text{VBW} = 300 \text{ kHz} / \text{Sweep} = \text{Auto}$$

Above 1000MHz:

- (1) Peak: RBW = 1MHz / VBW = 1MHz / Sweep = Auto
- (2) Average: RBW = 1MHz / VBW = 10Hz / Sweep = Auto

EUT Setup



The radiated emission and out of band emission tests were performed in the 3 meters chamber B, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209 and FCC 15.249 limits.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2007-10-16	2008-10-16
HP	Amplifier	8447E	1937A01046	2007-11-15	2008-11-15
Sunol Sciences	Bilog Antenna	JB1	A040904-2	2007-08-14	2008-08-14
HP	Amplifier	8449B	3008A00277	2007-09-29	2008-09-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2007-09-25	2008-09-25
R&S	Spectrum Analyzer	FSEM30	849720/019	2007-05-09	2008-05-09

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the EUT, and all support equipment power cords was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The EUT is set 3 meter away from the testing antenna, which is varied from 1-4 meter, and the EUT is placed on a turntable, which is 0.8 meter above ground plane, the table shall be rotated for 360 degrees to find out the highest emission. The receiving antenna should be changed the polarization both of horizontal and vertical.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 & 15.249, with the worst margin reading of:

30-1000MHz:

5.1 dB at 134.991925 MHz in the Horizontal polarization, Channel 1
0.9 dB at 215.995925 MHz in the Horizontal polarization, Channel 2

Above 1GHz:

5.15 dB at 1816 MHz in the Horizontal polarization, Channel 1
3.39 dB at 1844 MHz in the Vertical polarization, Channel 2

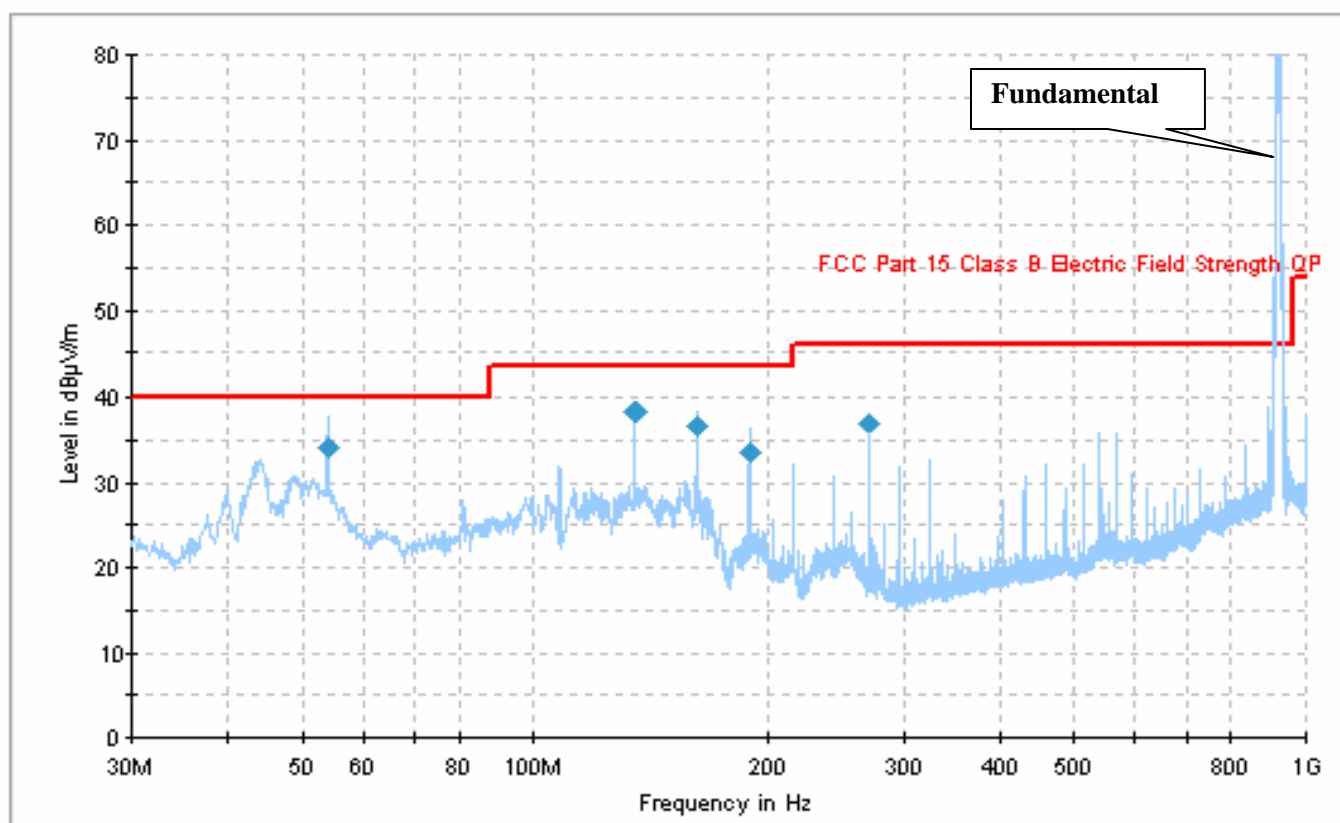
Test Data**Environmental Conditions**

Temperature:	25 ° C
Relative Humidity:	53%
ATM Pressure:	100.9kPa

The testing was performed by Phoenix Liu on 2008-01-04.

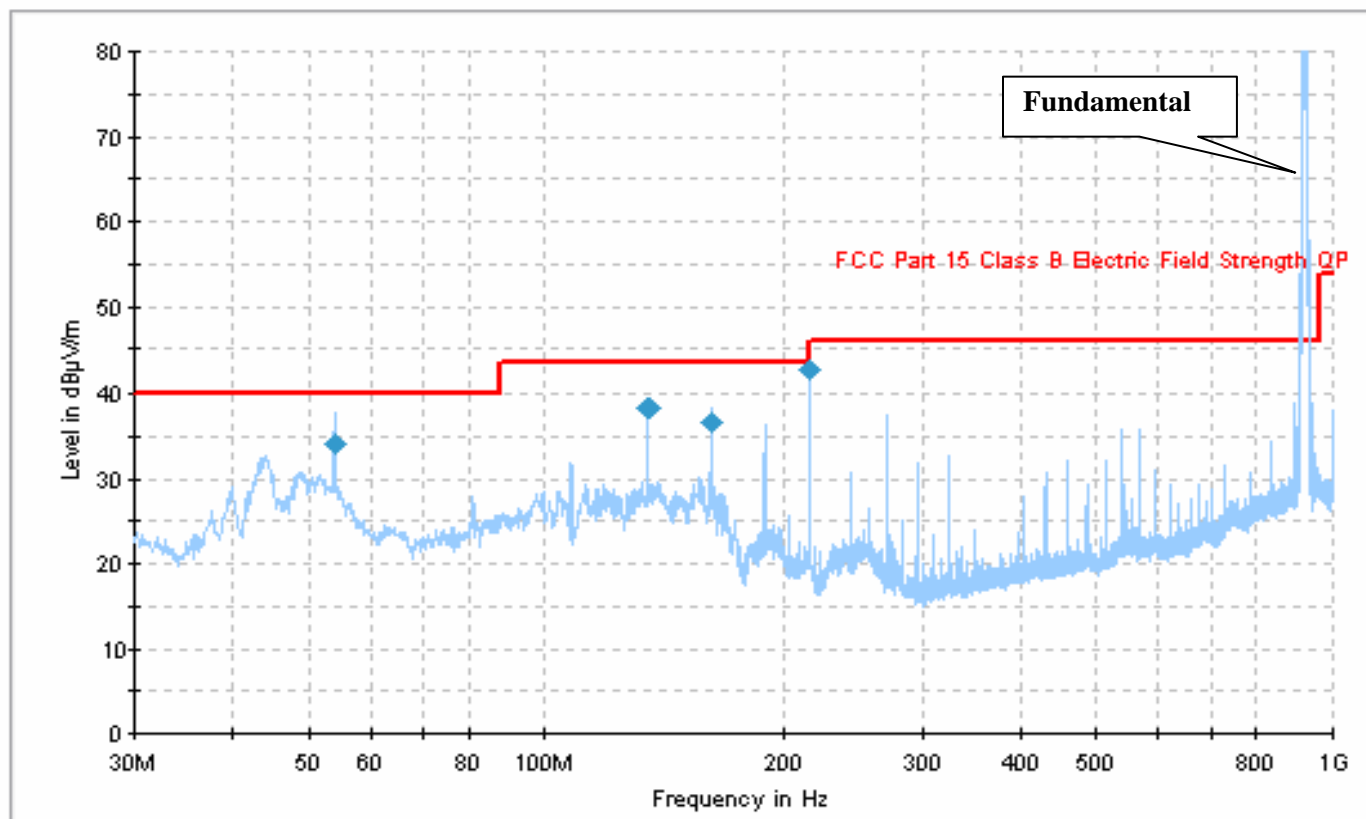
30-1000 MHz

Test Mode: Transmitting

Channel 1

Frequency (MHz)	Corrected Amp. (dBμV/m)	Antenna Height (cm)	Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
134.991925	38.4	184.0	H	258.0	-10.5	43.5	5.1
53.998875	34.1	102.0	V	3.0	-17.6	40.0	5.9
161.995375	36.5	102.0	V	63.0	-12.2	43.5	7.0
269.124521	36.9	141.0	H	281.0	-13.6	46.0	9.1
189.562310	34.2	175.0	V	90.0	-11.7	43.5	9.3

Channel 2



Frequency (MHz)	Corrected Amplitude (dBμV/m)	Antenna Height (cm)	Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBμV/m)	Margin (dB)
215.995925	42.6	141.0	H	281.0	-13.6	43.5	0.9*
134.991925	38.4	184.0	H	258.0	-10.5	43.5	5.1
53.998875	34.1	102.0	V	3.0	-17.6	40.0	5.9
161.995375	36.5	102.0	V	63.0	-12.2	43.5	7.0

* Within measurement uncertainty

Above 1GHz:

Frequency (MHz)	Meter Reading (dBμV)	Detector PK/AV	Direction Degree	Antenna			Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	FCC Part 15.209 & 15.249		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBμV/m)	Margin (dB)	Remarks
Channel 1												
1816	52.33	AV	168	1.6	H	28.7	2.82	35	48.85	54	5.15	Harmonic
2724	45.82	AV	45	1	V	30.8	4.4	33.4	47.62	54	6.38	Harmonic
1816	49.03	AV	268	1.6	V	28.8	2.82	35	45.65	54	8.35	Harmonic
908	83.80	AV	230	1.8	H	22.9	3.45	26.5	83.65	94	10.35	Fundamental
1816	66.19	PK	358	1.3	H	28.7	2.82	35	62.71	74	11.29	Harmonic
908	82.40	AV	149	1.8	V	22.9	3.45	26.5	82.25	94	11.75	Fundamental
2724	38.77	AV	270	1.6	H	31.3	4.4	33.4	41.07	54	12.93	Harmonic
1816	61.54	PK	263	1.8	V	28.8	2.82	35	58.16	74	15.84	Harmonic
2724	55.22	PK	49	1.2	V	30.8	4.4	33.4	57.02	74	16.98	Harmonic
3632	27.96	AV	180	1.6	H	32.8	4.04	32.9	31.9	54	22.10	Harmonic
3632	26.61	AV	18	1.6	V	32.1	4.04	32.9	29.85	54	24.15	Harmonic
2724	46.30	PK	268	1.6	H	31.3	4.4	33.4	48.6	74	25.40	Harmonic
3632	40.37	PK	250	1	V	32.1	4.04	32.9	43.61	74	30.39	Harmonic
3632	38.01	PK	360	1.6	H	32.8	4.04	32.9	41.95	74	32.05	Harmonic
Channel 2												
1844	53.89	AV	49	1.2	V	28.9	2.82	35	50.61	54	3.39	Harmonic
1844	50.23	AV	268	1.6	H	28.8	2.82	35	46.85	54	7.15	Harmonic
922	84.80	AV	149	1.8	V	22.9	3.87	26.5	85.07	94	8.93	Fundamental
922	84.60	AV	360	1.6	H	22.9	3.87	26.5	84.87	94	9.13	Fundamental
1844	66.19	PK	263	1.8	H	28.8	2.82	35	62.81	74	11.19	Harmonic
1844	64.98	PK	358	1.3	V	28.9	2.82	35	61.7	74	12.30	Harmonic
2766	33.68	AV	268	1.6	V	30.9	4.4	33.4	35.58	54	18.42	Harmonic
2766	31.24	AV	270	1.6	H	31.4	4.4	33.4	33.64	54	20.36	Harmonic
3688	29.87	AV	18	1.6	V	32.2	4.04	32.9	33.21	54	20.79	Harmonic
3688	25.67	AV	250	1	H	32.9	4.04	32.9	29.71	54	24.29	Harmonic
2766	47.50	PK	230	1.8	V	30.9	4.4	33.4	49.4	74	24.60	Harmonic
2766	46.30	PK	180	1.6	H	31.4	4.4	33.4	48.7	74	25.30	Harmonic
3688	40.54	PK	168	1.6	V	32.2	4.04	32.9	43.88	74	30.12	Harmonic
3688	38.01	PK	45	1	H	32.9	4.04	32.9	42.05	74	31.95	Harmonic

§15.249(d) – OUT OF BAND EMISSIONS

Applicable Standard

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 §15.209, whichever is the lesser attenuation.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set the RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including the specified frequencies of band edges.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2007-10-16	2008-10-16
HP	Amplifier	8449B	3008A00277	2007-09-29	2008-09-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2007-09-25	2008-09-25

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) Corp. attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

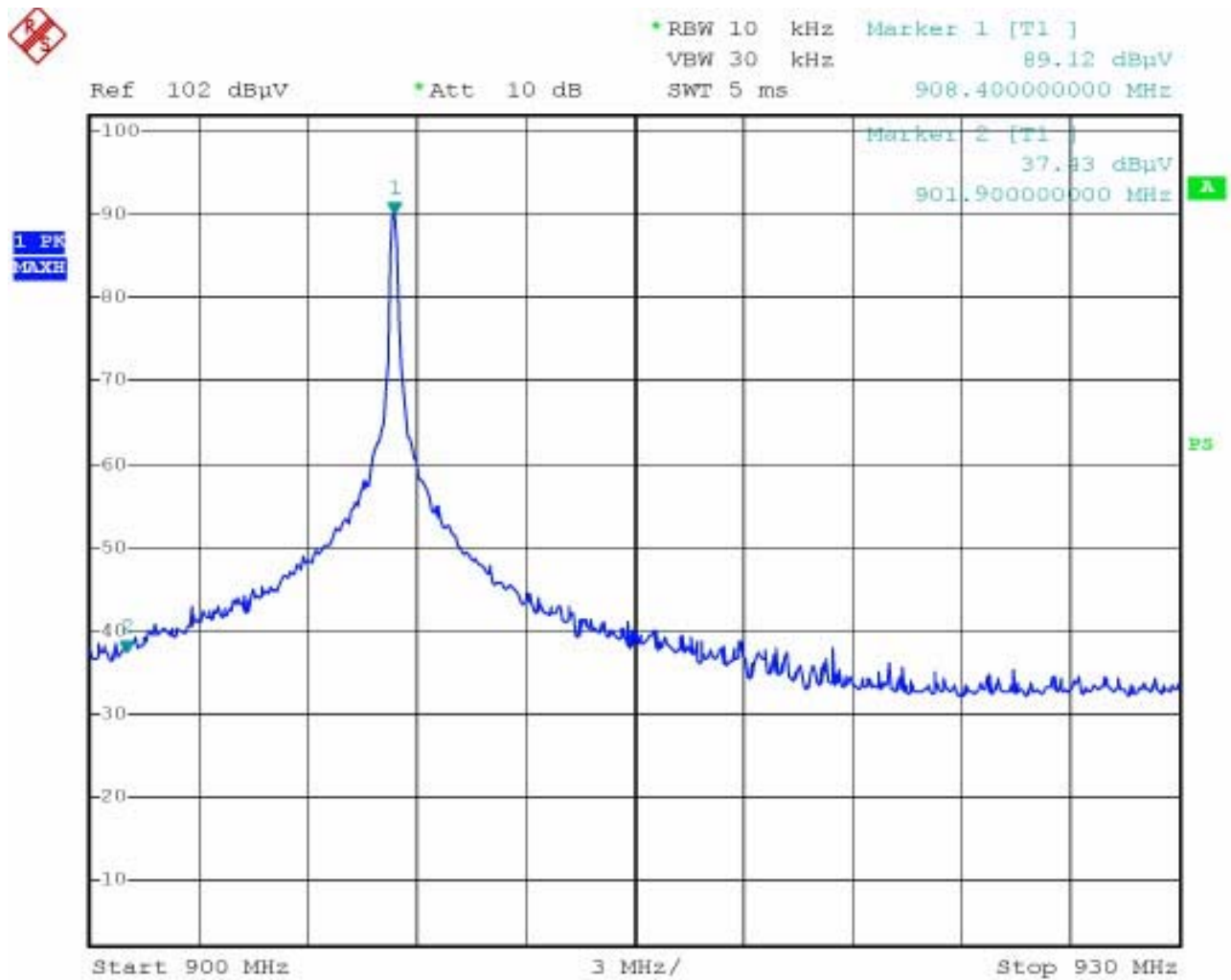
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	53%
ATM Pressure:	100.9kPa

The testing was performed by Phoenix Liu on 2007-12-29.

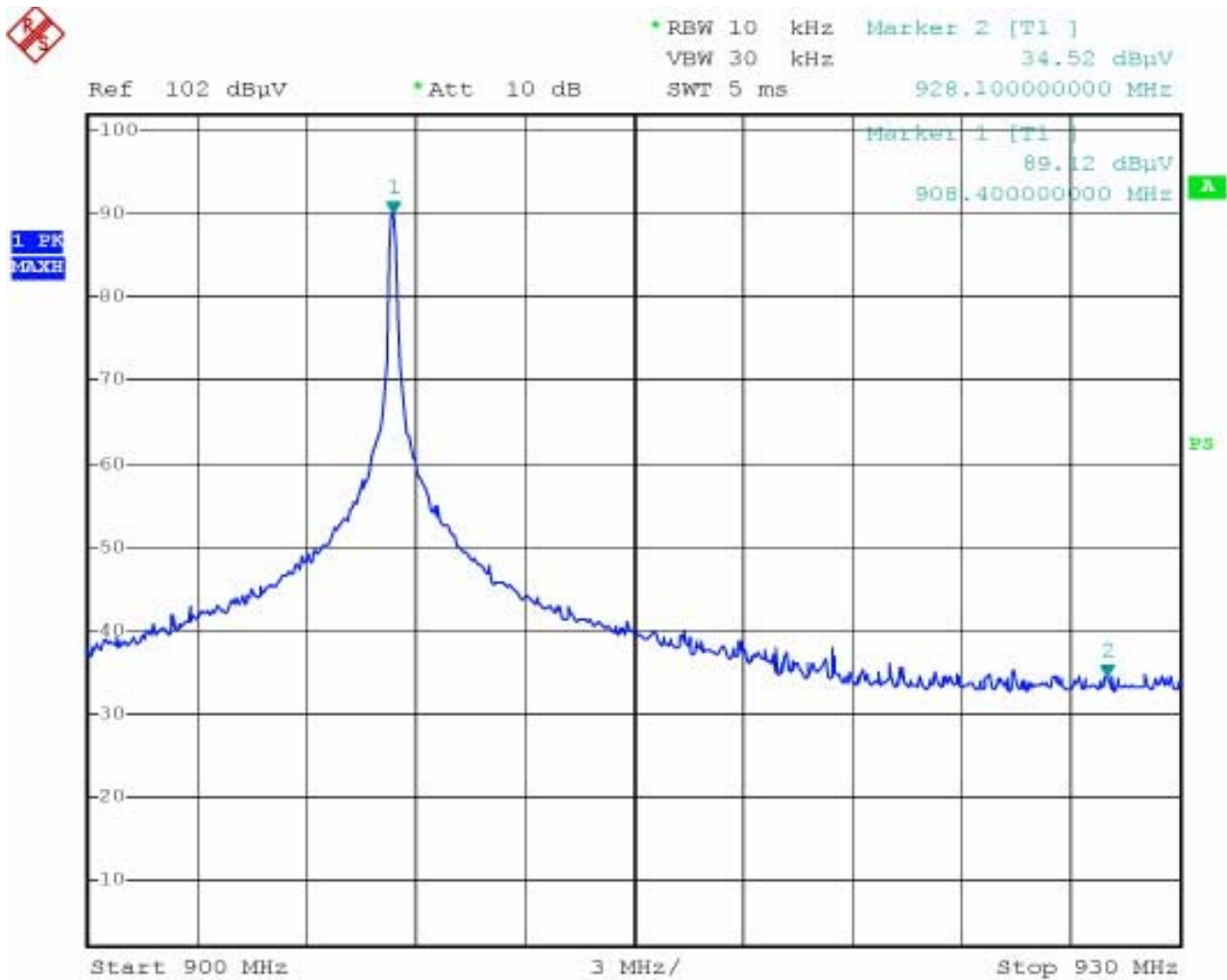
Test Result: Compliant.

Please refer to following plots.



Frequency Range Left side

Date: 29.DEC.2007 09:35:13



Frequency Range Right side

Date: 29.DEC.2007 08:25:57

*****END OF REPORT*****