

**FCC PART 15 CLASS B
TEST REPORT**

For

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States

FCC ID: YPVITALCOMBOYX2TV

Report Type: Original Report	Product Type: Mobile Phone
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Report Number: RSZ120409002-00A	
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* This report contains data that are not covered by the NVLAP accreditation and are marked with an asterisk "★" (Rev.2)

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *ITALCOM GROUP*'s product, model number: *Boyx2-tv (FCC ID: YPVITALCOMBOYX2TV)* (the "EUT") in this report was a *Mobile Phone*, which was measured approximately: 10.5 cm (L) x 6.3 cm (W) x 1.2 cm (H), rated input voltage: DC 3.7 V Li-ion battery or DC 5 V charging from adapter. The highest operating frequency is 104 MHz.

Adapter information

MODELO: boyx2-tv

ENTRADA: 100-240Vca 50/60 Hz 0.15A

SALIDA: 5Vcc 500 mA

** All measurement and test data in this report was gathered from production sample serial number: 1204004 (Assigned by BACL, Shenzhen). The EUT was received on 2012-04-09.*

Objective

This test report is prepared on behalf of *ITALCOM GROUP* in accordance with Part 2-Subpart J, Part 15-Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

Part 22H/24E PCE and Part 15.247 DSS submissions with FCC ID: YPVITALCOMBOYX2TV.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on 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 December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

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 an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT Exercise Software

“Winthrax” exercise software was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

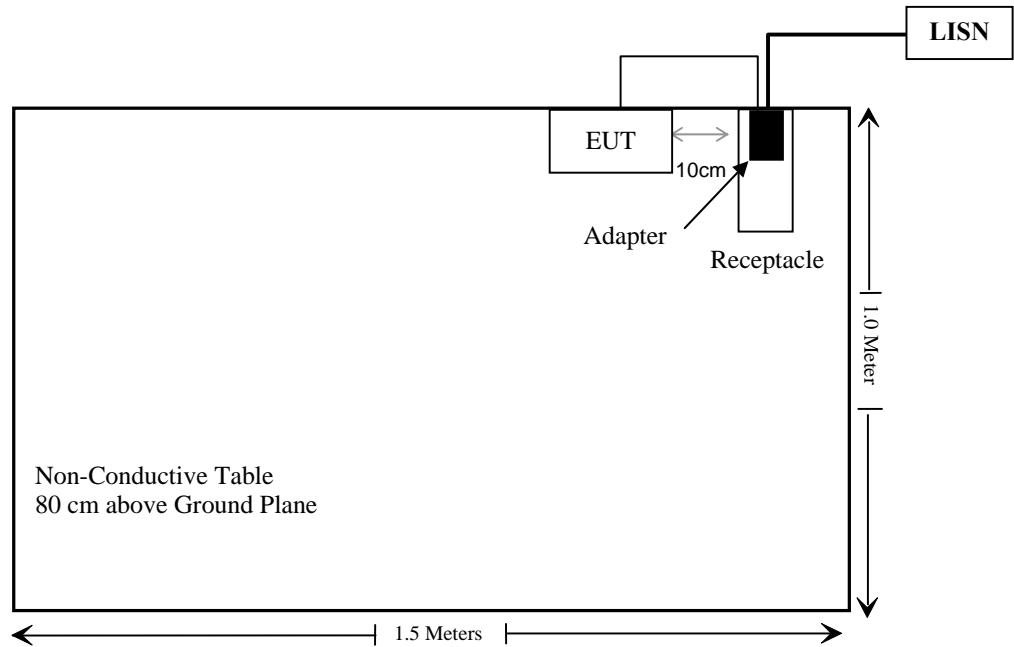
Manufacturer	Description	Model	Serial Number
DELL	PC	VOSTRO 220S	127BP2X
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Mouse	MOC5UO	G1900NKD
DELL	LCD Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH
SAST	Modem	AEM-2100	0293

External I/O Cable

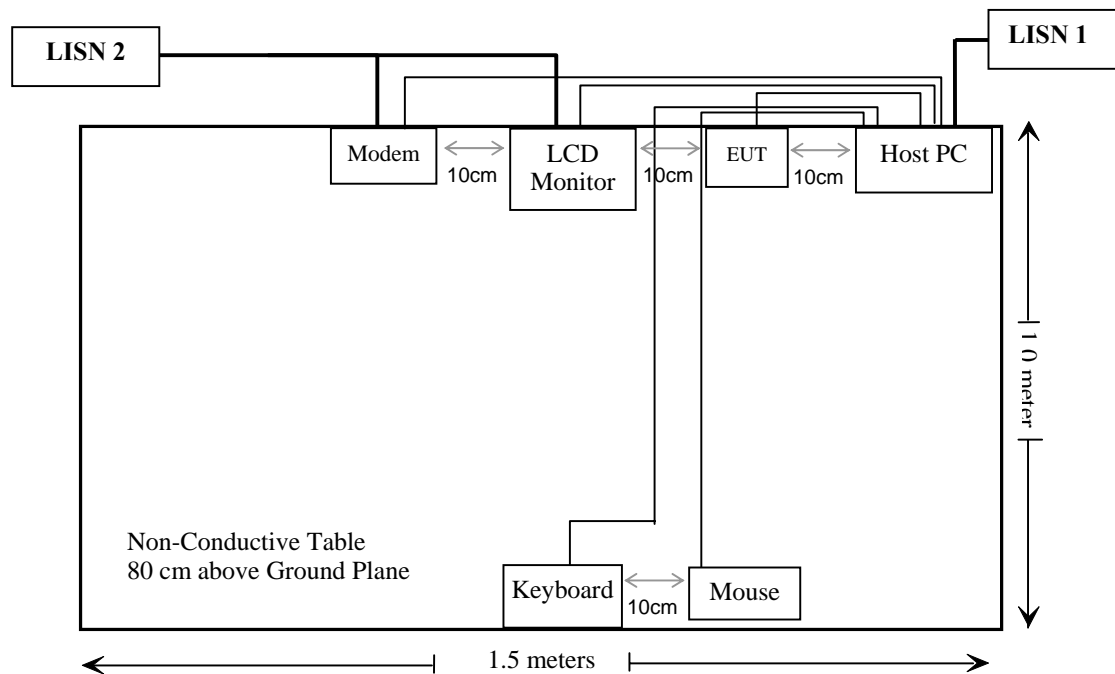
Cable Description	Length (m)	From/Port	To
Shielded Detachable USB Cable	1.5	Host PC	Mouse
Shielded Detachable Serial Cable	1.5	Host PC	Modem
Shielded Detachable K/B Cable	1.5	Host PC	Keyboard
Shielded Detachable VGA Cable	1.8	Host PC	LCD Monitor
Unshielded Detachable USB Cable	0.8	EUT	Host PC

Block Diagram of Test Setup

Charging Mode:



Downloading Mode:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Spurious Emissions	Compliance

EMI Test Receiver Setup

The EMI 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>IF B/W</i>
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adaptor or host PC was connected to the outlet of the first LISN, and the other relevant equipments were connected to the second 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 Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2011-11-24	2012-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-11-17	2012-11-16
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	Pulse limiter	ESH3Z2	DE25985	2011-07-08	2012-07-07

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

9.80 dB at 1.105 MHz in the **Neutral** conducted mode for Downloading mode

Test Data

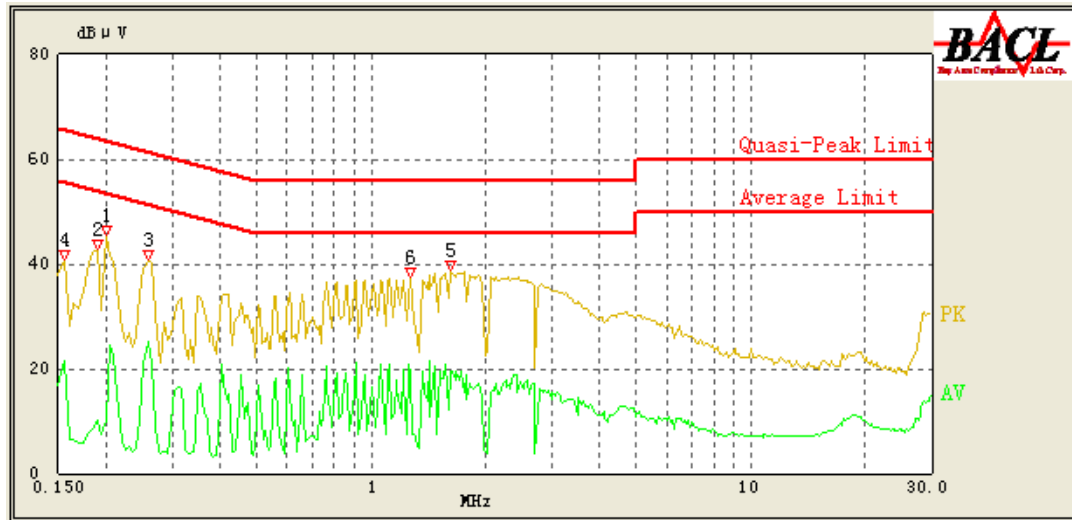
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

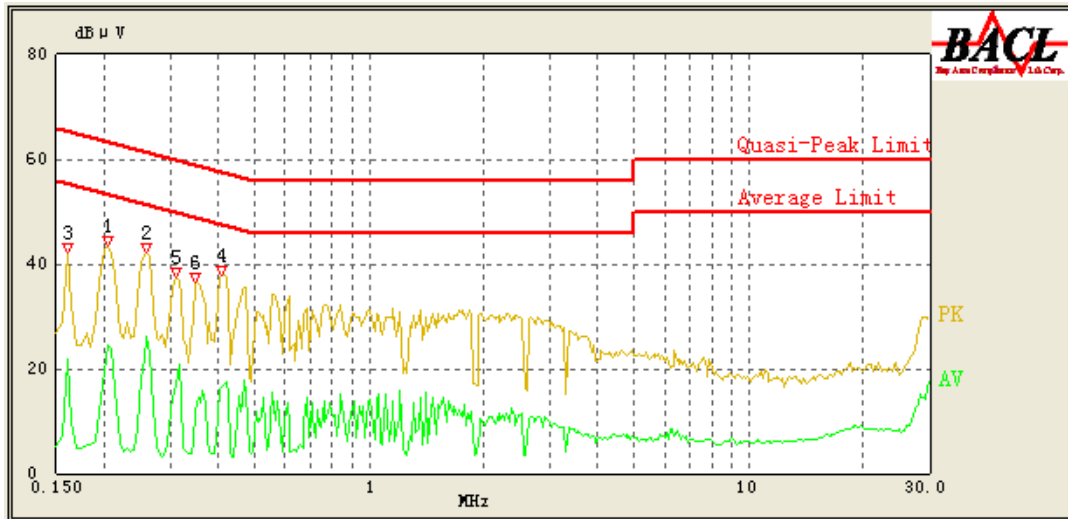
The testing was performed by Brown Lu on 2012-04-13.

Test Mode: Charging

AC 120 V, 60 Hz, Line:



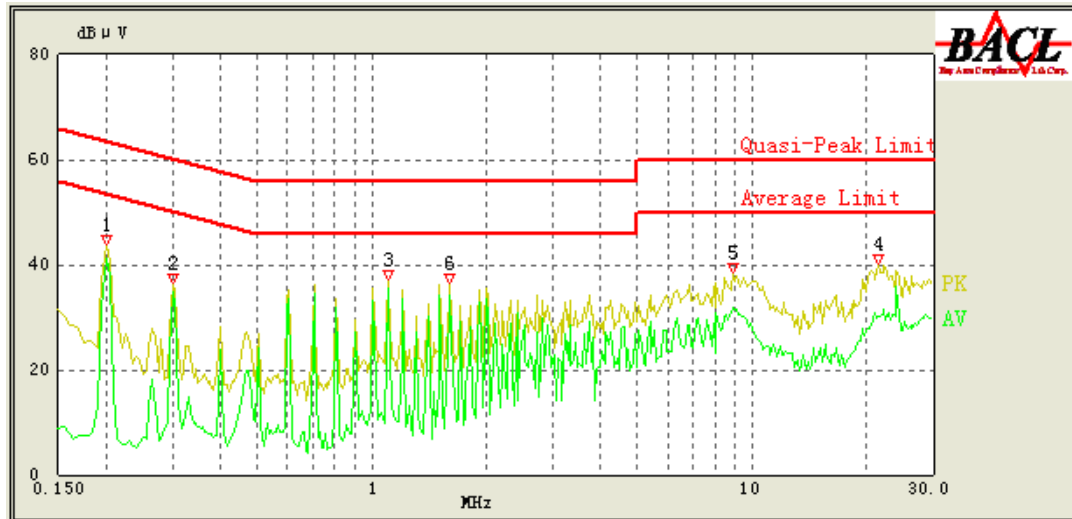
Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
1.615	35.20	9.80	56.00	20.80	QP
1.270	34.58	9.80	56.00	21.42	QP
1.270	19.62	9.80	46.00	26.38	Ave.
1.625	19.55	9.80	46.00	26.45	Ave.
0.260	36.33	9.60	62.86	26.53	QP
0.200	37.59	9.60	64.57	26.98	QP
0.190	37.37	9.60	64.86	27.49	QP
0.260	25.28	9.60	52.86	27.58	Ave.
0.155	36.52	9.60	65.86	29.34	QP
0.155	21.36	9.60	55.86	34.50	Ave.
0.200	10.25	9.60	54.57	44.32	Ave.
0.190	10.26	9.60	54.86	44.60	Ave.

AC 120V, 60 Hz, Neutral:

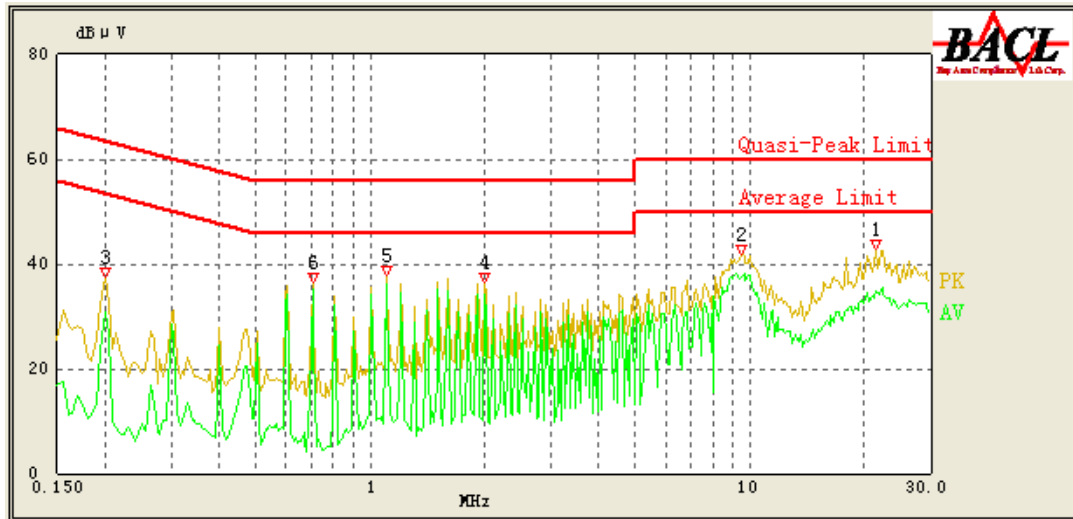
Conducted Emissions			FCC Part 15.207		
Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
0.260	40.76	9.60	62.86	22.10	QP
0.205	40.10	9.60	64.43	24.33	QP
0.410	33.79	9.63	58.57	24.78	QP
0.260	26.08	9.60	52.86	26.78	Ave.
0.350	32.79	9.61	60.29	27.50	QP
0.310	33.10	9.60	61.43	28.33	QP
0.160	36.74	9.60	65.71	28.97	QP
0.205	24.36	9.60	54.43	30.07	Ave.
0.410	16.50	9.63	48.57	32.07	Ave.
0.160	21.82	9.60	55.71	33.89	Ave.
0.310	16.95	9.60	51.43	34.48	Ave.
0.350	11.96	9.61	50.29	38.33	Ave.

EUT Operation Mode: Downloading (data transmits with Computer)

AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
1.105	35.35	9.80	46.00	10.65	Ave.
1.610	34.12	9.80	46.00	11.88	Ave.
0.200	41.07	9.60	54.57	13.50	Ave.
0.300	34.80	9.60	51.71	16.91	Ave.
8.950	31.79	9.96	50.00	18.21	Ave.
21.420	30.18	12.33	50.00	19.82	Ave.
1.105	35.51	9.80	56.00	20.49	QP
1.610	34.27	9.80	56.00	21.73	QP
0.200	41.72	9.60	64.57	22.85	QP
0.300	35.15	9.60	61.71	26.56	QP
8.950	32.89	9.96	60.00	27.11	QP
21.525	32.51	12.32	60.00	27.49	QP

AC 120V/60 Hz, Neutral

Frequency (MHz)	Corrected Amplitude (dBμV)	Correction Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/Ave./QP)
1.105	36.20	9.80	46.00	9.80	Ave.
0.705	35.02	9.72	46.00	10.98	Ave.
2.010	34.15	9.80	46.00	11.85	Ave.
9.555	37.92	9.98	50.00	12.08	Ave.
21.420	34.88	12.33	50.00	15.12	Ave.
1.105	37.05	9.80	56.00	18.95	QP
0.705	35.69	9.72	56.00	20.31	QP
2.010	35.05	9.80	56.00	20.95	QP
9.550	38.39	9.98	60.00	21.61	QP
21.420	38.06	12.33	60.00	21.94	QP
0.200	30.78	9.60	54.57	23.79	Ave.
0.200	34.83	9.60	64.57	29.74	QP

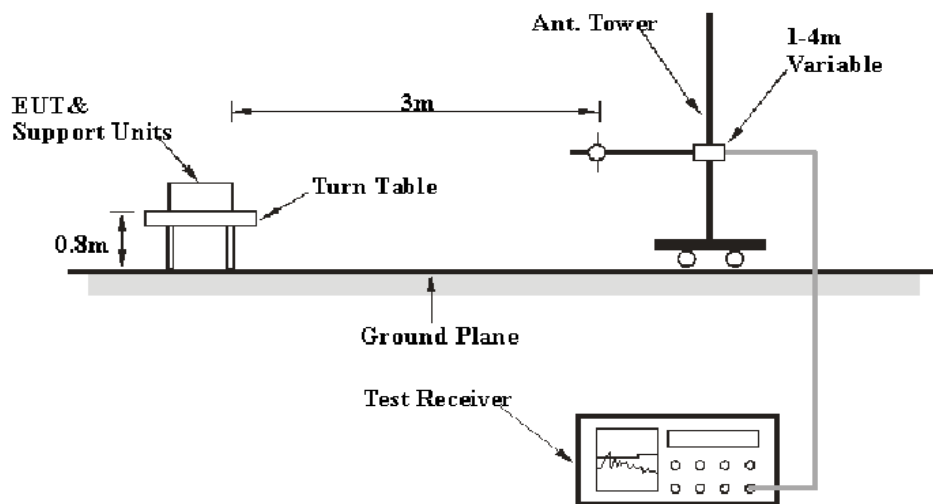
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, 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 CISPR 16-4-2, the Treatment of Uncertainty in EMC Measurements, the estimation of the uncertainty of radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB. ($k=2$, 95% level of confidence)

EUT Setup



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15.109 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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

EMI Test Receiver Setup

The system was investigated from 30 MHz to 1000 MHz.

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

<i>Frequency</i>	<i>RB/W</i>	<i>VB/W</i>	<i>IF B/W</i>	<i>Detection</i>
30 MHz-1 GHz	120 kHz	300 kHz	120 kHz	Quasi-peak

Test Procedure

For the radiated emissions test, the host PC and relevant equipments were connected to AC floor outlet for downloading mode.

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

All the data was recorded in the Quasi-peak detection mode from 30 MHz to 1 GHz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447E	2944A09795	2011-11-24	2012-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2012-03-17	2013-03-16

* **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.

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 7 dB means the emission is 7 dB below the 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 §15.109 Class B, with the worst margin reading of:

5.7 dB at 60.865000 MHz in the Vertical polarization

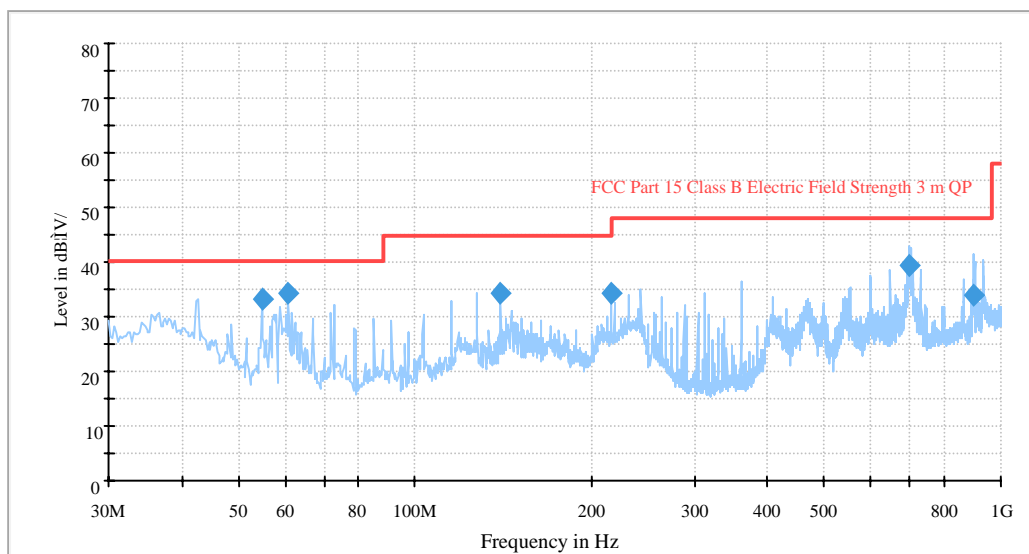
Test Data**Environmental Conditions**

Temperature:	25 °C
Relative Humidity:	48 %
ATM Pressure:	100.0 kPa

The testing was performed by Brown Lu on 2012-04-17.

EUT Operation Mode: Downloading (data transmits with Computer)

Auto Tes(FCC Part 15 Class B)



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna		Turntable Position (degree)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
		Height (cm)	Polarity (H/V)				
60.865000	34.3	103.0	V	169.0	-18.6	40.0	5.7
54.790000	33.3	102.0	V	194.0	-18.0	40.0	6.7
139.970250	34.4	194.0	H	0.0	-13.1	43.5	9.1
215.992250	34.4	132.0	V	46.0	-14.1	43.5	9.1
899.467125	34.0	103.0	H	259.0	-0.9	46.0	12.0
698.326125	33.6	103.0	V	0.0	-3.1	46.0	12.4

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