



FCC PART 15.249 MEASUREMENT AND TEST REPORT

For

Swann Communications Pty Ltd. (Swann Global Limited - HK Office)

Room 1601, Tung Ning Building, 249-255 Des Voeux Rd, Central, Hong Kong

FCC ID: VMIBKY001

This Report Concerns: ☑ Original Report		Equipment Type: Wireless Black Knight	
Test Engineer:	Cinderallar Chen	Ander allon Chen	
Report No.:	RSZ07112053		
Test Date:	2008-01-28 to 2008-02-22		
Report Date:	2008-03-03		
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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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FCC ID: VMIBKY001

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Swann Communications Pty Ltd (Swann Global Limited - HK Office)'s product, model number: BKY the "EUT" as referred to in this report is a Wireless Black Knight, which measures approximately 12.0cmL x 6.0cmW x 19.0cmH, rated input voltage: DC 12V adapter.

Adapter Model: AK01G-1200050B

Input: 100-240V~ 50/60Hz 0.2A, Output: 12V 0.5A

* All measurement and test data in this report was gathered from production sample serial number: 0711026 (Assigned by BACL, Shenzhen). The EUT was received on 2007-11-20.

Objective

This Type approval report is prepared on behalf of *Swann Communications Pty Ltd (Swann Global Limited - HK office)* 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).



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.

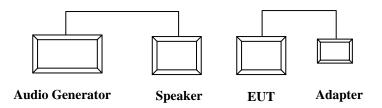
Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
NANYAN	Audio Generator	NY2201	019829	Verification

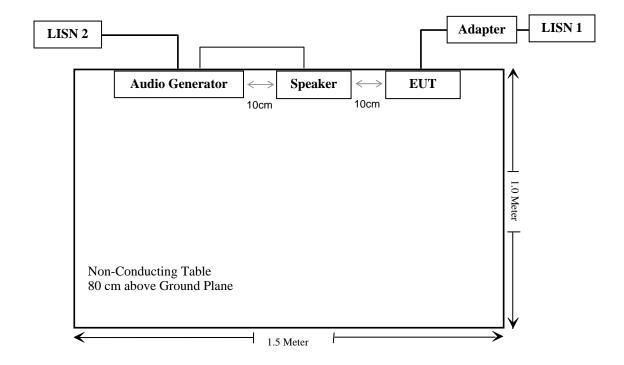
External I/O Cable

Cable Description	Length (m)	From/Port	То
Unshielded Undetachable Adapter Cable	1.80	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

§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.

Please refer to the EUT photos.

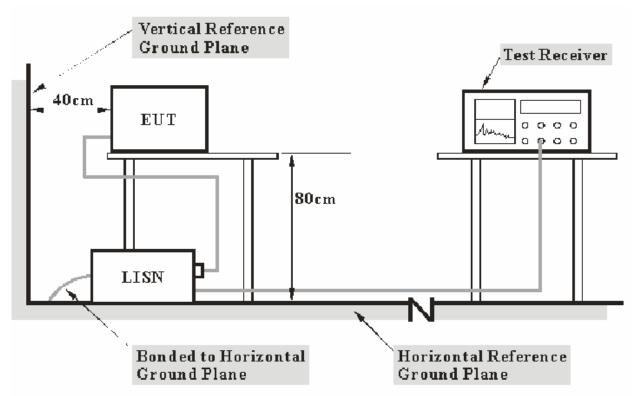
§15.207(a) - CONDUCTED EMISSIONS

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 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 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:

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.

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(a), with the worst margin reading of:

Transmitting Mode (Middle Channel): 4.80 dB at 0.6950 MHz in the Neutral conductor mode.

^{*} 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 Data

Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56%
ATM Pressure:	100.2 kPa

The testing was performed by Cinderallar Chen on 2008-01-28, 2008-01-29.

Test Mode: Transmitting

Line Conducted Emissions				FCC PAI	RT 15.207
Frequency (MHz)	Amplitude (dBµV)	Detector (QP/AV)	Conductor (Hot/Neutral)	Limit (dBµV)	Margin (dB)
0.6950	51.20	QP	Neutral	56.00	4.80
2.2500	49.30	QP	Neutral	56.00	6.70
0.6550	48.50	QP	Hot	56.00	7.50
1.6600	47.90	QP	Neutral	56.00	8.10
0.3050	52.00	QP	Neutral	60.11	8.11
2.2800	47.60	QP	Hot	56.00	8.40
1.0500	47.40	QP	Hot	56.00	8.60
0.2350	53.50	QP	Neutral	62.27	8.77
2.7200	47.20	QP	Hot	56.00	8.80
0.2850	51.70	QP	Hot	60.67	8.97
0.2300	51.50	QP	Hot	62.45	10.95
0.6550	33.40	AV	Hot	46.00	12.60
2.2800	33.40	AV	Hot	46.00	12.60
2.7200	33.00	AV	Hot	46.00	13.00
0.2300	38.50	AV	Hot	52.45	13.95
2.2500	32.00	AV	Neutral	46.00	14.00
0.1850	49.40	QP	Neutral	64.26	14.86
0.6950	30.50	AV	Neutral	46.00	15.50
1.0500	30.40	AV	Hot	46.00	15.60
1.6600	28.90	AV	Neutral	46.00	17.10
0.3050	31.60	AV	Neutral	50.11	18.51
0.2350	33.20	AV	Neutral	52.27	19.07
0.2850	31.20	AV	Hot	50.67	19.47
0.1850	34.70	AV	Neutral	54.26	19.56

Plot(s) of Test Data

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

CONDUCTED EMISSION TEST

28. Jan 08 15:46

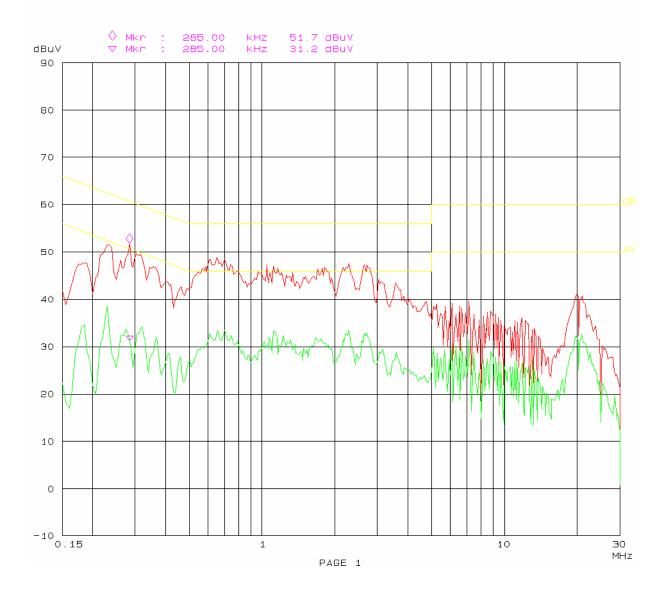
FCC 15

EUT: Wireless Black Knight M/N: BKY

Manuf: Swann Op Cond: Transm

Transmitting (MID CHANNEL)

Operator: Cinderallar Test Spec: AC120/60Hz H Comment: Temp: 25 Humi: 56%



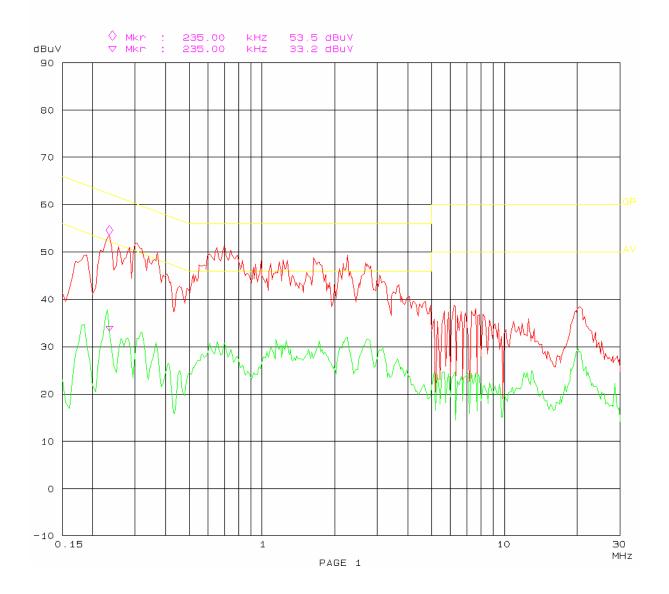
CONDUCTED EMISSION TEST FCC 15

28. Jan 08 14:51

EUT: Wireless Black Knight M/N: BKY Manuf: Swann

Op Cond: Transmitting (MID CHANNEL)

Operator: Cinderallar Test Spec: AC120/60Hz 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 $\pm 4.0 \text{ dB}$.

Test Equipment Setup

The spectrum analyzer or receiver is set as:

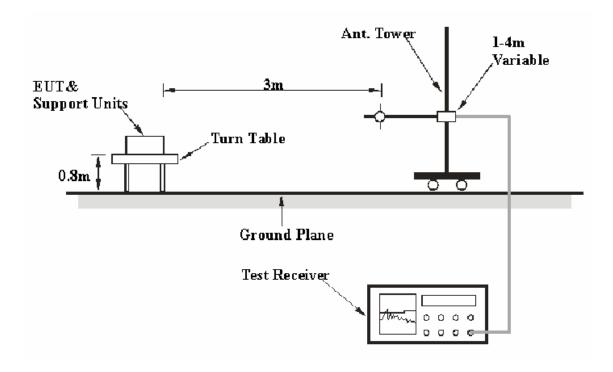
Below 1000MHz:

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

Above 1000MHz:

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

Test Set up



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
HP	Amplifier	8447E	1937A01046	2007-11-15	2008-11-15
Rohde & Schwarz	EMI Test Receiver	ESCI	100224	2007-10-16	2008-10-16
Sunol Sciences	Bilog Antenna	JB1	A040904-2	2007-08-14	2008-08-14
НР	Amplifier	8449B	3008A00277	2007-09-29	2008-09-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2007-09-25	2008-09-25
Rohde & Schwarz	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 mete, 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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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 limit for Class B. The equation for margin calculation is as follows:

Margin = Limit – 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:

8.9 dB at **725.459938 MHz** in the **Vertical** polarization.

Above 1GHz:

Low Channel: 1.41 dB at 9656 MHz in the Horizontal polarization. Middle Channel: 3.91 dB at 9728 MHz in the Horizontal polarization. High Channel: 5.21 dB at 4936 MHz in the Vertical polarization.

Test Data

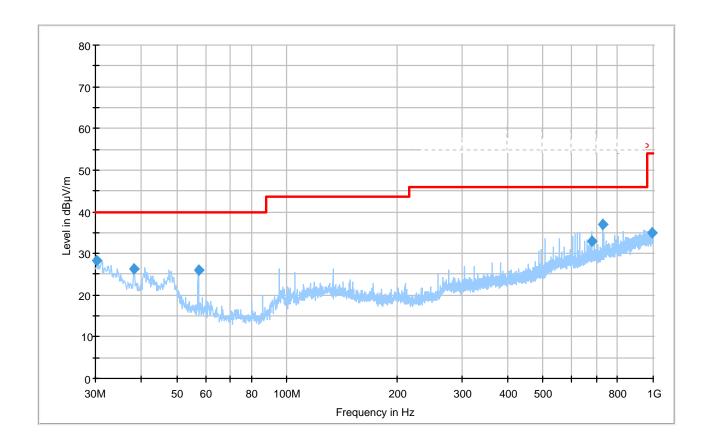
Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	56%
ATM Pressure:	100.2 kPa

The testing was performed by Cinderallar Chen on 2008-02-22.

30-1000 MHz:

Test Mode: Transmitting



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Ant. Height (cm)	Ant. Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
725.459938	37.1	156.0	V	27.0	-1.7	46.0	8.9
990.846438	34.9	162.0	V	359.0	2.1	46.0	11.1
30.333915	28.3	124.0	V	84.0	-4.2	40.0	11.7
677.952250	33.0	359.0	V	9.0	-2.2	46.0	13.0
38.201625	26.4	130.0	V	294.0	-9.9	40.0	13.6
57.280750	26.0	144.0	V	204.0	-17.4	40.0	14.0

Above 1GHz:

Т	Meter	D 4 4	D: 4:	Ant.	D 1	Ant.	Cable	Pre-	Cord.	FCC Part 15.209		9 & 15.249
Freq. (MHz)	Reading (dBuV)	Detector PK/QP/AV	Direction Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Loss (dB)	Amp. Gain (dB)	Amp. (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Comment
	Low Channel (2414 MHz)											
9656	60.24	PK	230	1.8	Н	41.1	5.35	34.1	72.59	74	1.41	Harmonic
9656	38.67	AV	149	1.8	Н	41.1	5.35	34.1	51.02	54	2.98	Harmonic
4828	62.78	PK	250	1.5	V	35.4	4.64	33.4	69.42	74	4.58	Harmonic
4828	40.67	AV	270	1.6	Н	36.6	4.64	33.4	48.51	54	5.49	Harmonic
9656	36.83	AV	360	1.6	V	39.9	5.35	34.1	47.98	54	6.02	Harmonic
4828	41.17	AV	180	1.6	V	35.4	4.64	33.4	47.81	54	6.19	Harmonic
7242	38.33	AV	263	1.8	V	37.7	4.51	33.7	46.84	54	7.16	Harmonic
7242	36.41	AV	268	1.6	Н	39.2	4.51	33.7	46.42	54	7.58	Harmonic
4828	58.23	PK	49	1.2	Н	36.6	4.64	33.4	66.07	74	7.93	Harmonic
7242	55.29	PK	168	1.6	Н	39.2	4.51	33.7	65.3	74	8.70	Harmonic
7242	56.77	PK	268	1.6	V	37.7	4.51	33.7	65.28	74	8.72	Harmonic
9656	53.44	PK	358	1.3	V	39.9	5.35	34.1	64.59	74	9.41	Harmonic
2414	84.57	AV	45	1.2	V	30.6	3.61	35	83.78	94	10.22	Fund.
2414	94.12	PK	18	1.6	V	30.6	3.61	35	93.33	114	20.67	Fund.
2414	74.07	AV	263	1.4	Н	30.6	3.61	35	73.28	94	20.72	Fund.
2414	87.57	PK	20	1.2	Н	30.6	3.61	35	86.78	114	27.22	Fund.

T	Meter	Datastas	D:	TT • 1.4	Ant.	Ant.	Cable	Pre-	Cord.	FCC Part 15.209 &		9 & 15.249
Freq. (MHz)	Reading (dBuV)	Detector PK/QP/AV	Direction Degree	Height (m)	Polar (H/V)	Factor (dB/m)	Loss (dB)	Amp. Gain (dB)	Amp. (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Comment
Middle Channel (2432 MHz)												
9728	56.92	PK	49	1.2	Н	41.5	5.77	34.1	70.09	74	3.91	Harmonic
7296	58.62	PK	180	1.5	V	37.7	4.51	33.7	67.13	74	6.87	Harmonic
9728	33.42	AV	270	1.6	Н	41.5	5.77	34.1	46.59	54	7.41	Harmonic
9728	33.46	AV	180	1.6	V	40.4	5.77	34.1	45.53	54	8.47	Harmonic
4864	58.35	PK	250	1.6	V	35.4	4.64	33.4	64.99	74	9.01	Harmonic
7296	55.09	PK	180	1.3	Н	39	4.51	33.7	64.9	74	9.10	Harmonic
7296	35.07	AV	261	1.2	Н	39	4.51	33.7	44.88	54	9.12	Harmonic
4864	56.1	PK	49	1.2	Н	36.6	4.64	33.4	63.94	74	10.06	Harmonic
7296	34.57	AV	90	1.2	V	37.7	4.51	33.7	43.08	54	10.92	Harmonic
9728	50.99	PK	250	1.2	V	40.4	5.77	34.1	63.06	74	10.94	Harmonic
4864	35.9	AV	180	1.6	V	35.4	4.64	33.4	42.54	54	11.46	Harmonic
4864	33.23	AV	270	1.6	Н	36.6	4.64	33.4	41.07	54	12.93	Harmonic
2432	80.5	AV	45	1.5	V	30.6	3.61	35	79.71	94	14.29	Fund.
2432	93.88	PK	18	1.6	V	30.6	3.61	35	93.09	114	20.91	Fund.
2432	69.83	AV	263	1.4	Н	30.6	3.61	35	69.04	94	24.96	Fund.
2432	87.36	PK	20	1.2	Н	30.6	3.61	35	86.57	114	27.43	Fund.

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E	Meter	D-44	D:4:	Ant.	Ant.	Ant.	Cable	Pre-	Cord.	FCC Pa	FCC Part 15.209	
Freq. (MHz)	Reading (dBuV)	Detector PK/QP/AV	Direction Degree	Height	Polar (H/V)	Factor (dB/m)	Loss (dB)	Amp. Gain (dB)	Amp. (dBµV/m)	Limit (dBuV/m)	Margin (dB)	Comment
]	High (Channel	(2468	MHz)				
4936	61.04	PK	250	1	V	36.6	4.55	33.4	68.79	74	5.21	Harmonic
7404	58.14	PK	268	1.6	V	39	4.75	33.7	68.19	74	5.81	Harmonic
7404	58.67	PK	168	1.6	Н	37.7	4.75	33.7	67.42	74	6.58	Harmonic
4936	60.45	PK	49	1.2	Н	35.4	4.55	33.4	67	74	7.00	Harmonic
9872	33.4	AV	360	1.6	V	41.5	5.77	34.1	46.57	54	7.43	Harmonic
9872	53.01	PK	358	1.3	V	41.5	5.77	34.1	66.18	74	7.82	Harmonic
9872	53.63	PK	230	1.8	Н	40.4	5.77	34.1	65.7	74	8.30	Harmonic
7404	35.57	AV	263	1.8	V	39	4.75	33.7	45.62	54	8.38	Harmonic
9872	33.47	AV	149	1.8	Н	40.4	5.77	34.1	45.54	54	8.46	Harmonic
7404	35.52	AV	268	1.6	Н	37.7	4.75	33.7	44.27	54	9.73	Harmonic
4936	34.9	AV	180	1.6	V	36.6	4.55	33.4	42.65	54	11.35	Harmonic
4936	34.57	AV	270	1.6	Н	35.4	4.55	33.4	41.12	54	12.88	Harmonic
2468	80.23	AV	45	1	V	30.6	3.61	35	79.44	94	14.56	Fund.
2468	93.78	PK	18	1.6	V	30.6	3.61	35	92.99	114	21.01	Fund.
2468	69.07	AV	263	1.4	Н	30.6	3.61	35	68.28	94	25.72	Fund.
2468	88.59	PK	20	1.2	Н	30.6	3.61	35	87.8	114	26.20	Fund.

Note: Fund. - Fundamental

§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	
НР	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:	56%
ATM Pressure:	100.2 kPa

The testing was performed by Cinderallar Chen on 2008-02-22.

Test Mode: Transmitting

Test Result: Compliant.

Freq. (MHz)	Meter Reading (dBuV)	Detector PK/QP/AV	Direction Degree	Ant. Height (m)	Ant. Polar (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Cord. Amp. (dBµV/m)	Limit (dBuV/m)	Margin (dB)
2385.7	34.19	AV	49	1.2	V	30.6	3.61	35	33.40	54	20.60
2485.2	32.74	AV	230	1.8	V	30.6	4.00	35	32.34	54	21.66
2345.3	34.15	AV	20	1.2	Н	28.9	3.61	35	31.66	54	22.34
2489.5	32.34	AV	168	1.6	Н	28.9	4.00	35	30.24	54	23.76
2385.6	39.79	PK	270	1.6	V	30.6	3.61	35	39.00	74	35.00
2488.2	38.15	PK	230	1.8	V	30.6	4.00	35	37.75	74	36.25
2345.4	39.3	PK	263	1.4	Н	28.9	3.61	35	36.81	74	37.19
2489.5	36.69	PK	268	1.6	Н	28.9	4.00	35	34.59	74	39.41

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