

FCC Test Report

APPLICANT : Acer Incorporated
EQUIPMENT : Tablet Computer
BRAND NAME : Acer
MODEL NAME : A200
FCC ID : HLZTMDMA200
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Oct. 14, 2011 and completely tested on Oct. 27, 2011. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.4	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 9.1 dB at 0.182 MHz
3.2	15.109	7.2.3.2	Radiated Emission	< 15.109 limits or < RSS-Gen table 1 limits (Section 6)	PASS	Under limit 6.26 dB at 239.79 MHz

1. General Description

1.1. Applicant

Acer Incorporated

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 22181, Taiwan (R.O.C)

1.2. Manufacturer

1. Compal Electronics, Inc.

No. 581, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan

2. Compal Electronics Technology (Kunshan) Co., Ltd.

No. 25, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone, Kunshan, Jiangsu, China

3. Compal Information (Kunshan) Co., Ltd.

No. 15, Third Avenue, A Zone, Kunshan Comprehensive Free Trade Zone, Kunshan, Jiangsu, China

4. Compal Information Technology (Kunshan) Co., Ltd.

No. 58, First Avenue, A Zone, Kunshan Comprehensive Free Trade Zone, Kunshan, Jiangsu, China

5. Compalead Eletrônica Do Brasil Indústria E Comércio Ltda

Rua Kanebo 175, Galpões C1, C2, C3, C4, C5 C6 E C12, Bairro Distrito Industrial Jundiaí Business Park, Cep 13213-090, Jundiaí - São Paulo, Brasil

6. Compal (Vietnam) Co., Ltd.

Ba Thien Industrial Zone, Ba Hien Commune, Binh Xuyen County, Vinh Phuc Province, Vietnam

1.3. Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Tablet Computer
Brand Name	Acer
Model Name	A200
FCC ID	HLZTMDMA200
Sample 1	EUT with eMMC 1 and LP DDR2
Sample 2	EUT with eMMC 2 and LP DDR2
Sample 3	EUT with eMMC 3 and LP DDR2
Sample 4	EUT with eMMC 4 and LP DDR2
Tx Frequency Range	Bluetooth : 2400 MHz ~ 2483.5 MHz WLAN : 2400 MHz ~ 2483.5 MHz
Rx Frequency Range	Bluetooth : 2400 MHz ~ 2483.5 MHz WLAN : 2400 MHz ~ 2483.5 MHz GPS : 1.57542 GHz
Antenna Type	Bluetooth : PIFA Antenna WLAN : PIFA Antenna
Type of Modulation	Bluetooth (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK 802.11b : DSSS (BPSK / QPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) GPS : BPSK
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Test Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	CO05-HY	03CH06-HY	722060/4086B-1

1.5. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- IC ICES-003 Issue 4
- ANSI C63.4-2003
- IC RSS-Gen Issue 3

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The test results for FCC compliance, indicating that these results are deemed satisfactory evidence of compliance with **Industry Canada Interference-Causing Equipment Standard ICES-003**.



1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Motorola	S705	IHDT6GH1	N/A	N/A
5.	iPod Earphone	Apple	N/A	FCC DoC	Unshielded, 1.1 m	N/A
6.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
7.	Notebook	DELL	P20G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
8.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
9.	USB 2.0 HD	WD	WDBAAR3200 ABK-PESN	FCC DoC	N/A	Unshielded, 1.8 m



2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Data application transferred mode (EUT with notebook)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Abbreviations:

- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

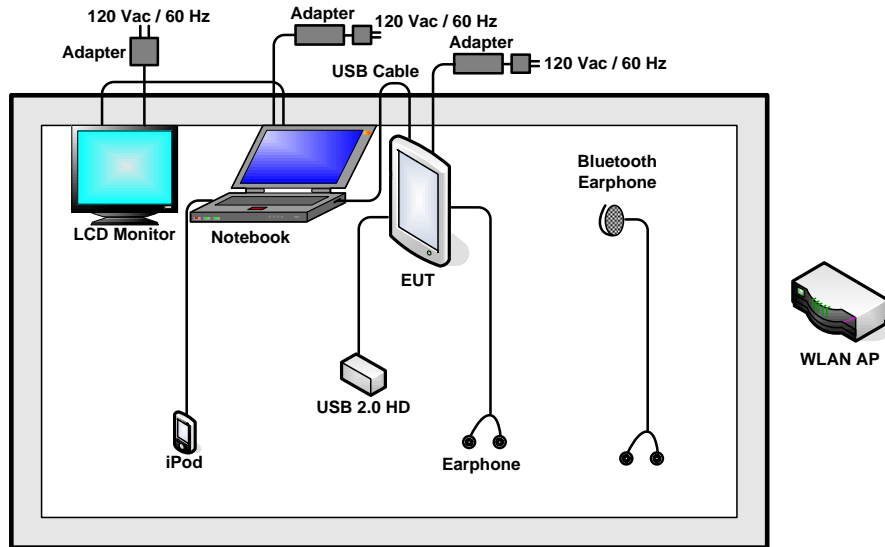
Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1: WLAN Idle + Bluetooth Idle + USB With HD + Camera + Adapter + USB Cable 1 (Data Link with Notebook) + Earphone for Sample1 Mode 2: WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 2 Mode 3: WLAN Idle + Bluetooth Idle + USB With HD + GPS Rx + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 3 Mode 4: WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 4
Radiated Emissions < 1GHz	1	Mode 1: WLAN Idle + Bluetooth Idle + USB With HD + Camera + Adapter + USB Cable 1 (Data Link with Notebook) + Earphone for Sample 1 Mode 2: WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 2 Mode 3: WLAN Idle + Bluetooth Idle + USB With HD + GPS Rx + Adapter + USB Cable 1 (Data Link with Notebook) + Earphone for Sample 3 Mode 4: WLAN Idle + Bluetooth Idle + USB With HD + Camera + Adapter + USB Cable 1 (Data Link with Notebook) + Earphone for Sample 4
Radiated Emissions ≥ 1GHz	1	Mode 1: WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 2

Remark:

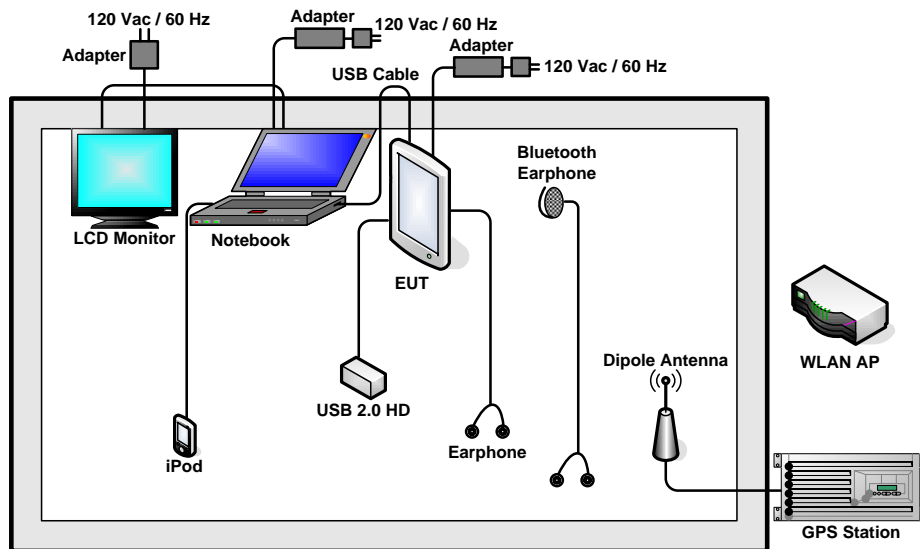
1. The worst case of AC is mode 2; only the test data of this mode was reported.
2. The worst case of RE < 1G is mode 2; only the test data of this mode was reported.
3. Link with Notebook means data application transferred mode between DUT and Notebook.

2.2. Connection Diagram of Test System

<EUT with USB Cable (Data Link with Notebook) Mode>



<EUT with USB Cable (Data Link with Notebook) in GPS Rx Mode>





2.3. Test Software

The EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Execute the program, installed in notebook for active sync files transfer with EUT via USB cable.
2. Execute "GPS Test" to make the EUT receive signals from GPS station continuously.
3. Execute "Video Player" to play MPEG4 files.
4. Turn on camera to capture images.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

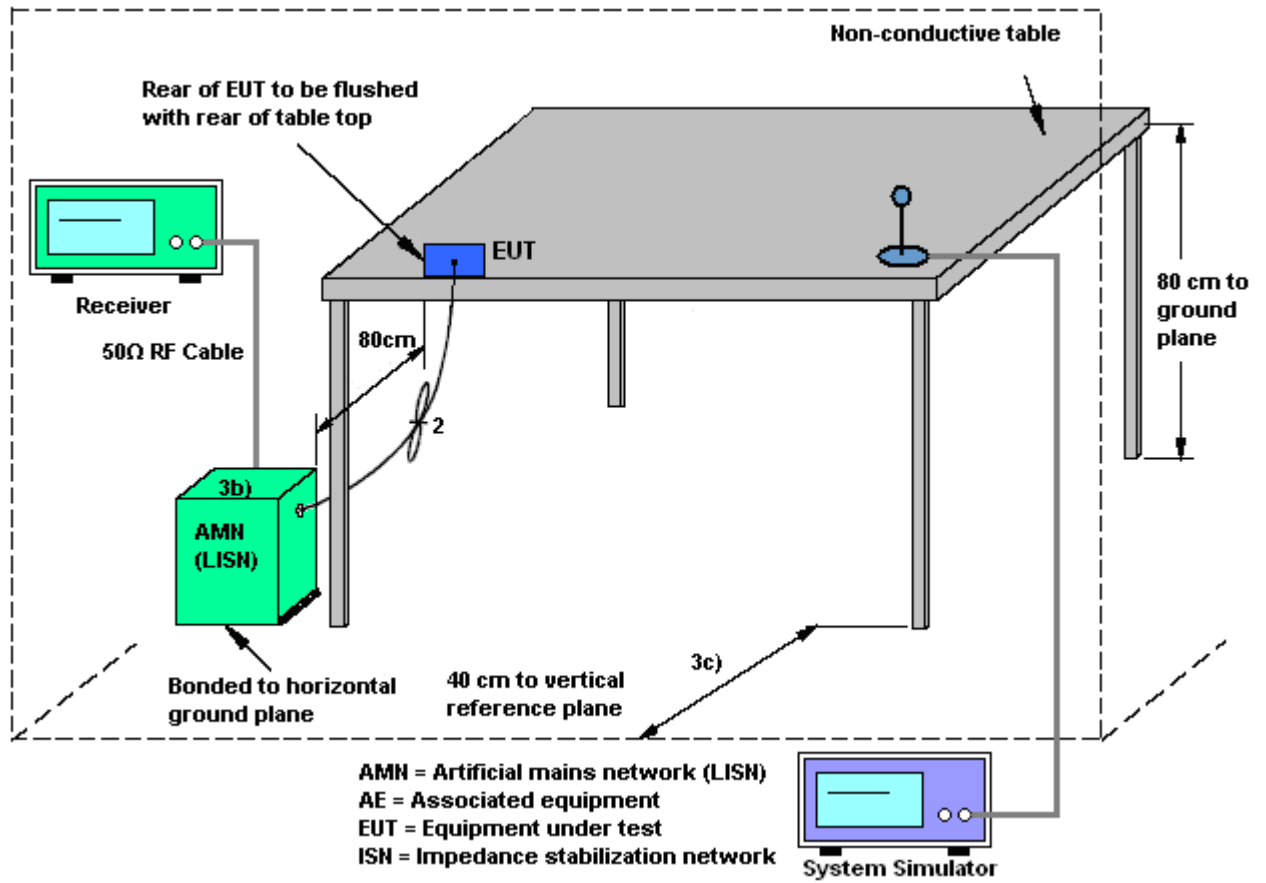
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

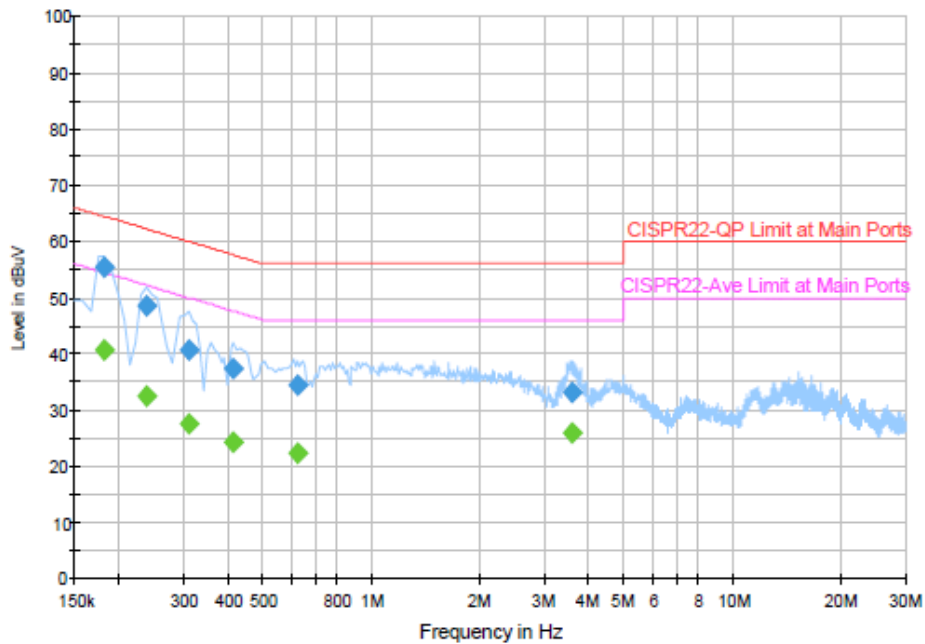
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	20~22°C
Test Engineer :	Novic Chiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 2		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



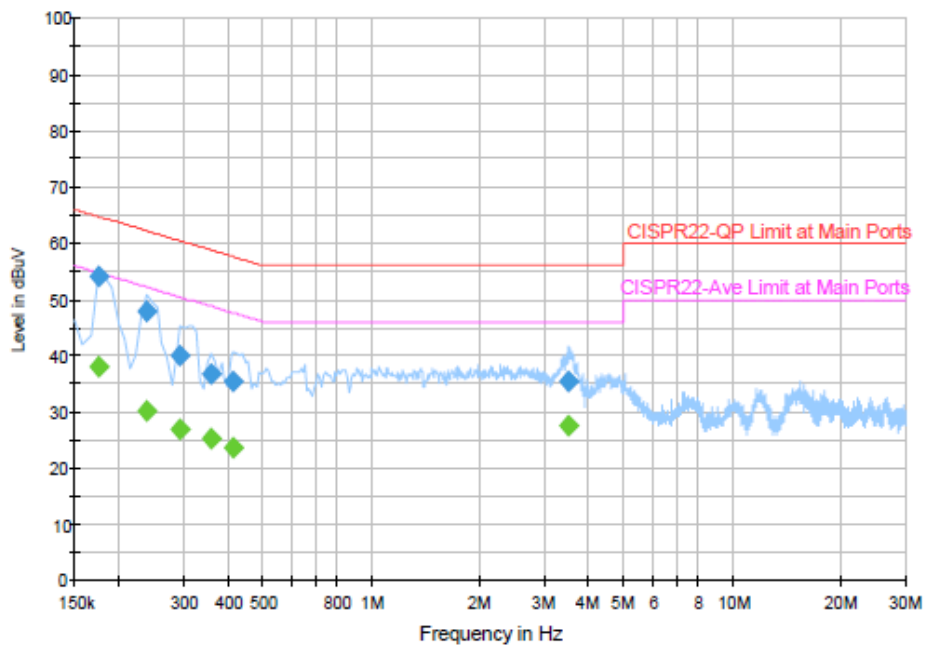
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	55.3	Off	L1	19.4	9.1	64.4
0.238000	48.7	Off	L1	19.4	13.5	62.2
0.310000	40.8	Off	L1	19.4	19.2	60.0
0.414000	37.3	Off	L1	19.5	20.3	57.6
0.622000	34.6	Off	L1	19.4	21.4	56.0
3.582000	33.0	Off	L1	19.5	23.0	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.182000	40.6	Off	L1	19.4	13.8	54.4
0.238000	32.6	Off	L1	19.4	19.6	52.2
0.310000	27.6	Off	L1	19.4	22.4	50.0
0.414000	24.4	Off	L1	19.5	23.2	47.6
0.622000	22.2	Off	L1	19.4	23.8	46.0
3.582000	25.8	Off	L1	19.5	20.2	46.0

Test Mode :	Mode 2	Temperature :	20~22°C
Test Engineer :	Novic Chiang	Relative Humidity :	40~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 2 for Sample 2		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	54.2	Off	N	19.4	10.6	64.8
0.238000	47.8	Off	N	19.4	14.4	62.2
0.294000	40.0	Off	N	19.4	20.4	60.4
0.358000	36.8	Off	N	19.4	22.0	58.8
0.414000	35.5	Off	N	19.5	22.1	57.6
3.510000	35.3	Off	N	19.5	20.7	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	38.1	Off	N	19.4	16.7	54.8
0.238000	30.2	Off	N	19.4	22.0	52.2
0.294000	26.8	Off	N	19.4	23.6	50.4
0.358000	25.4	Off	N	19.4	23.4	48.8
0.414000	23.6	Off	N	19.5	24.0	47.6
3.510000	27.6	Off	N	19.5	18.4	46.0

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/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

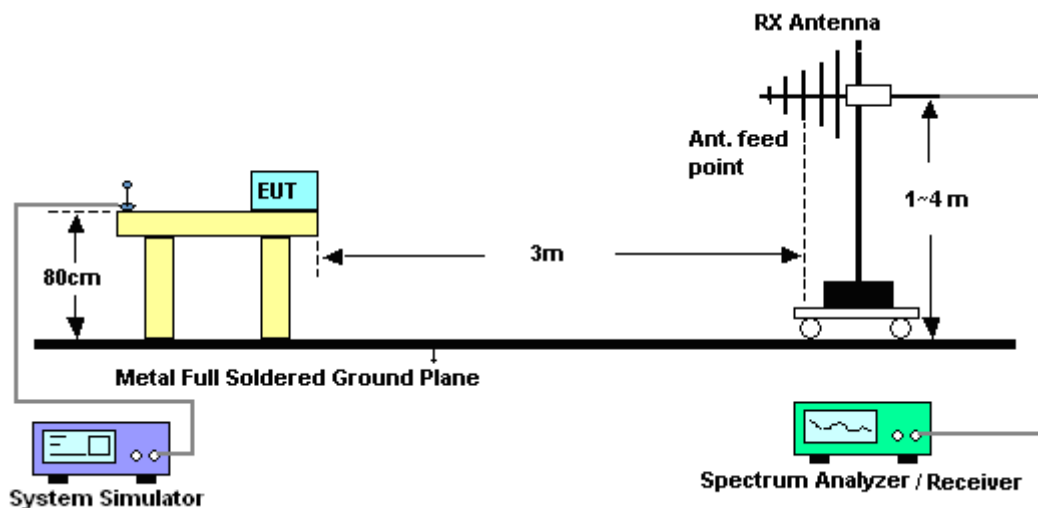
3.2.2. Measuring Instruments

See list of measuring instruments of this test report.

3.2.3. Test Procedures

1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

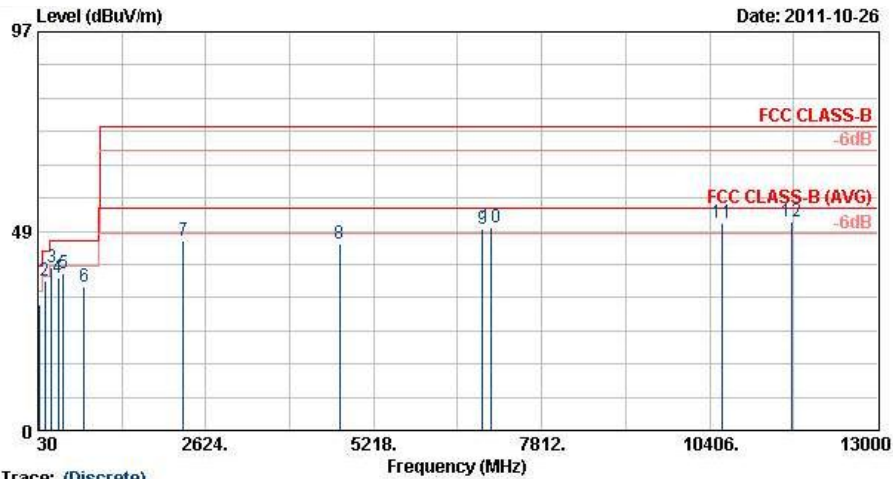
3.2.4. Test Setup of Radiated Emission





3.2.5. Test Result of Radiated Emission

Test Mode :	Mode 2	Temperature :	23~24°C
Test Engineer :	Kai Wang	Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 2		



Site : 03CH06-HY
Condition : FCC CLASS-B HF-ANT_110802 HORIZONTAL
Project : FD 101401
Memo :

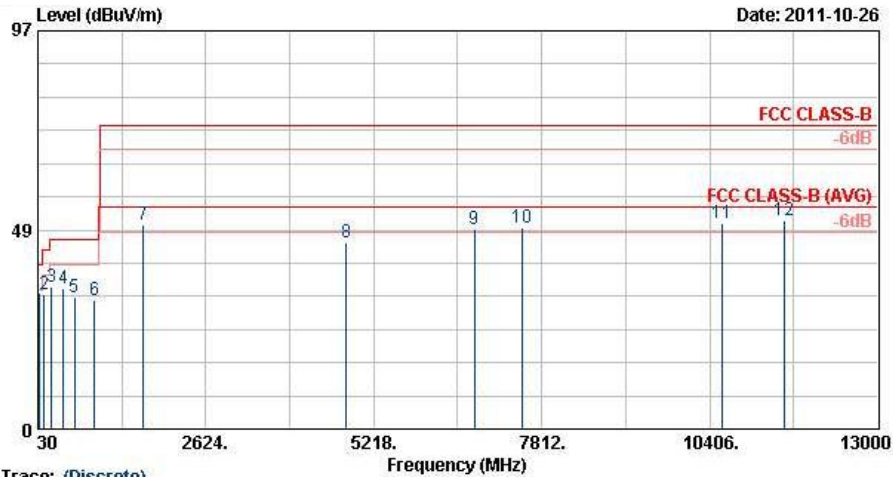
Trace: (Discrete)

03CH06-HY
FCC CLASS-B HF-ANT_110802 HORIZONTAL
FD 101401
Mode 2

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	44.04	30.53	-9.47	40.00	50.71	10.71	0.81	31.70	---	---	Peak
2	143.94	36.57	-6.93	43.50	55.68	11.15	1.45	31.70	---	---	Peak
3 @	239.79	39.74	-6.26	46.00	57.61	11.97	1.81	31.65	100	169	Peak
4	346.90	36.97	-9.03	46.00	51.76	14.55	2.22	31.57	---	---	Peak
5	421.80	38.39	-7.61	46.00	51.55	16.22	2.45	31.83	---	---	Peak
6	749.40	35.03	-10.97	46.00	43.72	20.07	3.35	32.11	---	---	Peak
7	2278.00	46.29	-27.71	74.00	63.59	31.78	5.25	54.33	---	---	Peak
8	4688.00	45.53	-28.47	74.00	58.93	34.49	7.89	55.77	---	---	Peak
9	6894.00	49.10	-24.90	74.00	59.26	35.78	10.55	56.49	---	---	Peak
10	7024.00	49.35	-24.65	74.00	59.29	35.79	10.72	56.45	---	---	Peak
11	10588.00	50.34	-23.66	74.00	58.12	37.55	10.59	55.93	---	---	Peak
12	11674.00	50.95	-23.05	74.00	55.84	38.44	10.90	54.22	100	0	Peak



Test Mode :	Mode 2	Temperature :	23~24°C
Test Engineer :	Kai Wang	Relative Humidity :	48~49%
Test Distance :	3m	Polarization :	Vertical
Function Type :	WLAN Idle + Bluetooth Idle + USB With HD + MPEG4 + Adapter + USB Cable 2 (Data Link with Notebook) + Earphone for Sample 2 for Sample 2		



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC CLASS-B HF-ANT_110802 VERTICAL
 Project : FD 101401
 Memo : Mode 2

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	44.04	33.28	-6.72	40.00	53.46	10.71	0.81	31.70	100	129 Peak
2	129.09	32.84	-10.66	43.50	51.35	11.81	1.38	31.70	---	---
3	239.79	34.58	-11.42	46.00	52.46	11.97	1.81	31.65	---	---
4	421.80	34.43	-11.57	46.00	47.60	16.22	2.45	31.83	---	---
5	600.30	32.05	-13.95	46.00	42.09	19.17	2.92	32.13	---	---
6	901.30	31.25	-14.75	46.00	37.44	21.63	3.76	31.58	---	---
7	1658.00	49.63	-24.37	74.00	70.36	29.03	4.35	54.12	---	---
8	4798.00	45.29	-28.71	74.00	58.75	34.42	7.95	55.83	---	---
9	6774.00	48.68	-25.32	74.00	59.09	35.76	10.37	56.53	---	---
10	7504.00	49.20	-24.80	74.00	58.54	35.50	11.39	56.23	---	---
11	10608.00	50.24	-23.76	74.00	57.99	37.56	10.59	55.91	---	---
12	11554.00	50.90	-23.10	74.00	56.30	38.27	10.82	54.49	100	0 Peak



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Test Receive	R&S	ESCI 7	100724	9kHz-7GHz	Aug. 22, 2011	Aug. 21, 2012	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9KHz – 30MHz	Dec. 03, 2010	Dec. 02, 2011	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9KHz – 30MHz	Dec. 01, 2010	Nov. 30, 2011	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
GPS Station	T&E	GS-50	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Spectrum Analyzer	R&S	FSP40	100057	9KHz-40GHz	Oct. 27, 2011	Oct. 26, 2012	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz-1000M Hz	May 10, 2011	May 09, 2012	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Oct. 31, 2010	Oct. 30, 2011	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz~18GHz	Aug. 01, 2011	Jul. 31, 2012	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 21, 2011	Oct. 20, 2012	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz- 26.5GHz	Apr. 14, 2011	Apr. 13, 2012	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9KHz~1GHz	Apr. 14, 2011	Apr. 13, 2012	Radiation (03CH06-HY)
GPS Station	T&E	GSG-54	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.10	Normal (k=2)	0.05
Cable Loss	0.10	Normal (k=2)	0.05
AMN Insertion Loss	2.50	Rectangular	0.63
Receiver Specification	1.50	Rectangular	0.43
Site Imperfection	1.39	Rectangular	0.80
Mismatch	+0.34 / -0.35	U-Shape	0.24
Combined Standard Uncertainty $U_c(y)$	1.13		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.26		

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of X_i		$u(X_i)$
	dB	Probability Distribution	
Receiver Reading	0.41	Normal (k=2)	0.21
Antenna Factor Calibration	0.83	Normal (k=2)	0.42
Cable Loss Calibration	0.25	Normal (k=2)	0.13
Pre-Amplifier Gain Calibration	0.27	Normal (k=2)	0.14
RCV/SPA Specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site Imperfection	1.43	Rectangular	0.83
Mismatch	+0.39 / -0.41	U-Shape	0.28
Combined Standard Uncertainty $U_c(y)$	1.27		
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54		



Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Contribution	Uncertainty of X_i		$u(X_i)$	C_i	$C_i * u(X_i)$
	dB	Probability Distribution			
Receiver Reading	± 0.10	Normal (k=2)	0.10	1	0.10
Antenna Factor Calibration	± 1.70	Normal (k=2)	0.85	1	0.85
Cable Loss Calibration	± 0.50	Normal (k=2)	0.25	1	0.25
Receiver Correction	± 2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	± 1.50	Rectangular	0.87	1	0.87
Site Imperfection	± 2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$	+0.34 / -0.35	U-Shape	0.244	1	0.244
Combined Standard Uncertainty $U_c(y)$	2.36				
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.72				



Appendix A. Photographs of EUT

Please refer to Sporton report number EP1O1401 as below.