

FCC Test Report

APPLICANT : Motorola Mobility, Inc.
EQUIPMENT : Touch Tablet with Wi-Fi
BRAND NAME : Motorola
MODEL NAME : HC100
MARKETING NAME : HC100
TYPE NAME : Touch Tablet
GPPD NUMBER : 2984
FCC ID : ACQHC100AB
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Mar. 28, 2012 and completely tested on Jun. 28, 2012. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC232814	Rev. 01	Initial issue of report	Jul. 02, 2012
FC232814	Rev. 02	Update report for revising the hardware and software version	Jul. 03, 2012

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 7.15 dB at 0.520 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 3.36 dB at 594.540 MHz For Quasi-Peak

1. General Description

1.1. Applicant

Motorola Mobility, Inc.

No. 1, Wang Jing East Road, Chao Yang District, Beijing, 100102, P. R. China

1.2. Manufacturer

Shanghai Rogen Information Technology Co., LTD.

Building 1, No. 401, Caobao Rd., Xuhui District, Shanghai, P.R. China

1.3. Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Touch Tablet with Wi-Fi
Brand Name	Motorola
Model Name	HC100
Marketing Name	HC100
Type Name	Touch Tablet
FCC ID	ACQHC100AB
EUT supports Radios application	WLAN 11bgn
HW Version	LWAM801D
SW Version	HT11_0000_0.3.01
EUT Stage	Production Unit

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

Product Specification subjective to this standard	
Tx Frequency	2412 MHz ~ 2462 MHz
Rx Frequency Range	2412 MHz ~ 2462 MHz
Antenna Type	Chip Antenna
Type of Modulation	802.11b : DSSS (BPSK / QPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.4. Test Site

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.		
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958		
Test Site No.	Sporton Site No.		FCC/IC Registration No.
	CO01-KS	03CH01-KS	149928/4086E-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
- ANSI C63.4-2003
- IC RSS-Gen Issue 3

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-855	KA2DIR855A2	N/A	Unshielded, 1.8 m
2.	PC	Dell	MT380	FCC DoC	N/A	Unshielded, 1.8 m
3.	PC	Dell	MT320	FCC DoC	N/A	Unshielded, 1.8 m
4.	Monitor	Dell	E1910Hc	FCC DoC	shielded, 1.2 m	Unshielded, 1.8 m
5.	Keyboard	Dell	SK-8115	FCC DoC	Shielded, 1.8 m with core	N/A
6.	(USB) Mouse	Dell	MO56UC	FCC DoC	Shielded, 1.8 m	N/A
7.	(USB) Mouse	Dell	N231	FCC DoC	Shielded, 1.8 m	N/A
8.	iPod	Apple	A1199	FCC DoC	Shielded, 1.2 m	N/A
9.	Printer	HP	Laser Jet 1018	FCC DoC	shielded, 1.8 m	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 EUT uses a USB interface and microprocessor operating 800MHz which is the maximum frequency used.

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.	Charging Mode (EUT with adapter)	☒	☒	Note 1
2.	Data application transferred mode (EUT with PC)	☒	☒	☒

Abbreviations:

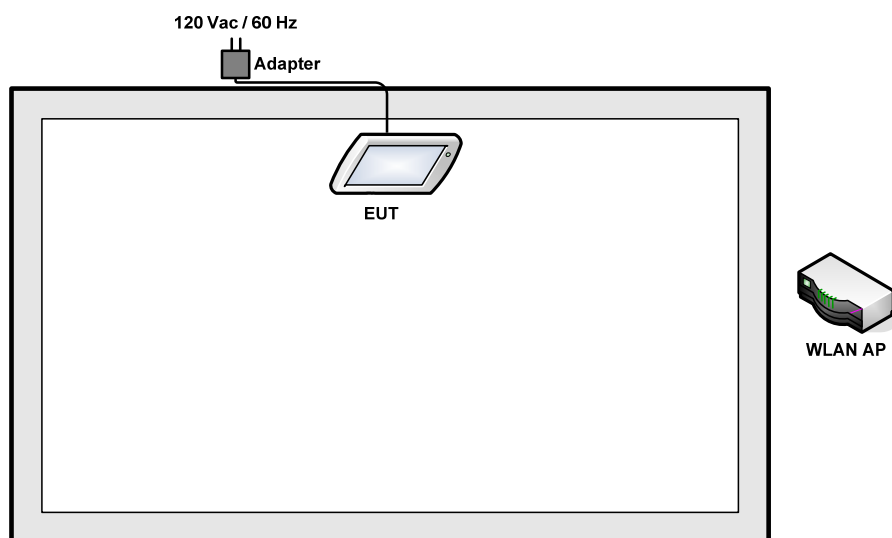
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

Note 1: Testing for this mode is not required or not the worst case.

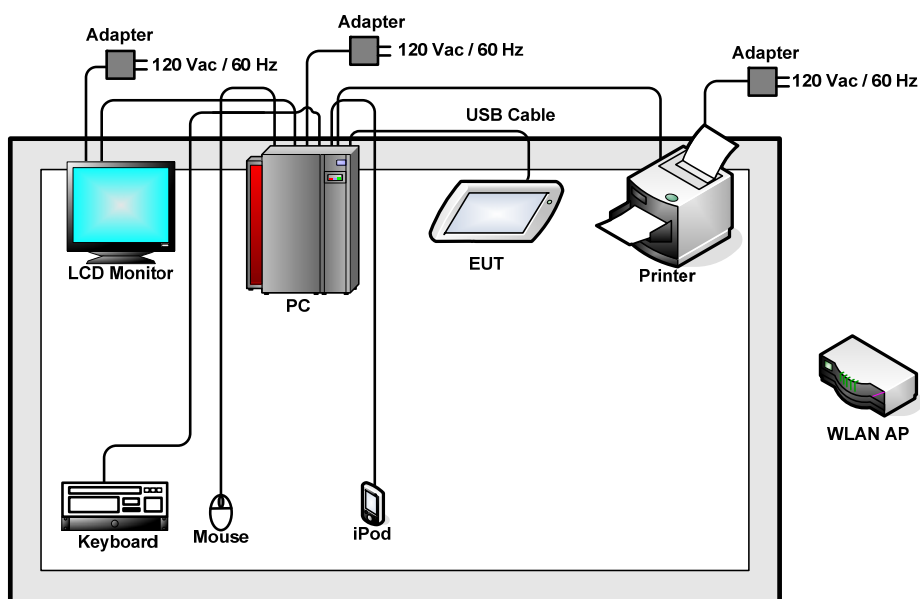
Remark: For signal above 1GHz, the worst case was test item 2.

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1 : WLAN Idle + Adapter + Camera <Fig.1> Mode 2 : WLAN Idle + Adapter + MPEG4 <Fig.1> Mode 3 : WLAN Idle + USB Cable (Data Link with PC) <Fig.2> Mode 4 : WLAN Idle + Adapter + Camera + Docking <Fig.3>
Radiated Emissions < 1GHz	1/2	Mode 1 : WLAN Idle + Adapter + Camera <Fig.1> Mode 2 : WLAN Idle + Adapter + MPEG4 <Fig.1> Mode 3 : WLAN Idle + USB Cable (Data Link with PC) <Fig.2> Mode 4 : WLAN Idle + Adapter + Camera + Docking <Fig.3>
Radiated Emissions ≥ 1GHz	2	Mode 1 : WLAN Idle + USB Cable (Data Link with PC) <Fig.2>
Remark: 1. The worst case of AC Conducted Emission is mode 1; the test data of this mode was reported. 2. The USB Link mode of AC Conducted Emission is mode 3; the test data of this mode was reported. 3. The worst case of RE < 1G is mode 3; only the test data of this mode was reported. 4. Link with PC means data application transferred mode between EUT and PC.		

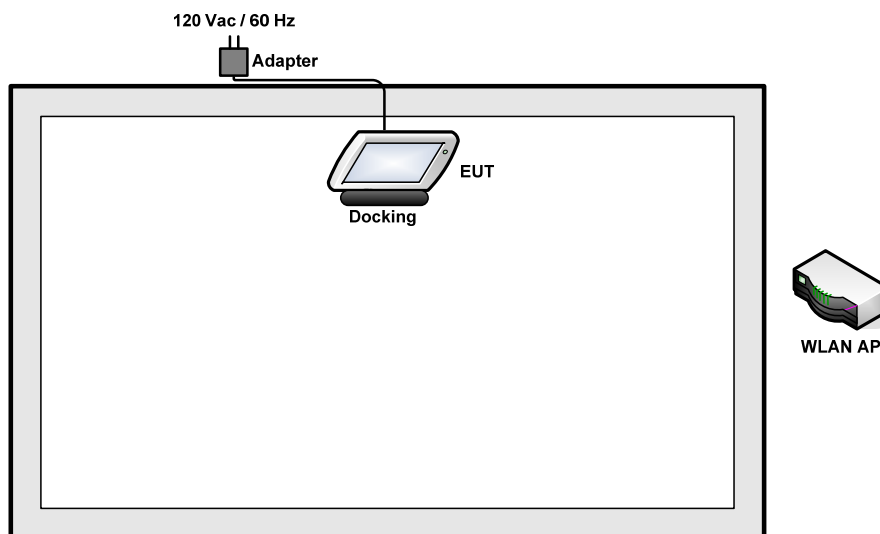
2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>



<Fig.3>

2.3. Test Software

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

1. Execute the program, "Winthrax", installed in PC for files transfer with EUT via USB cable.
2. Execute "Video Player" to play MPEG4 files.
3. 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.

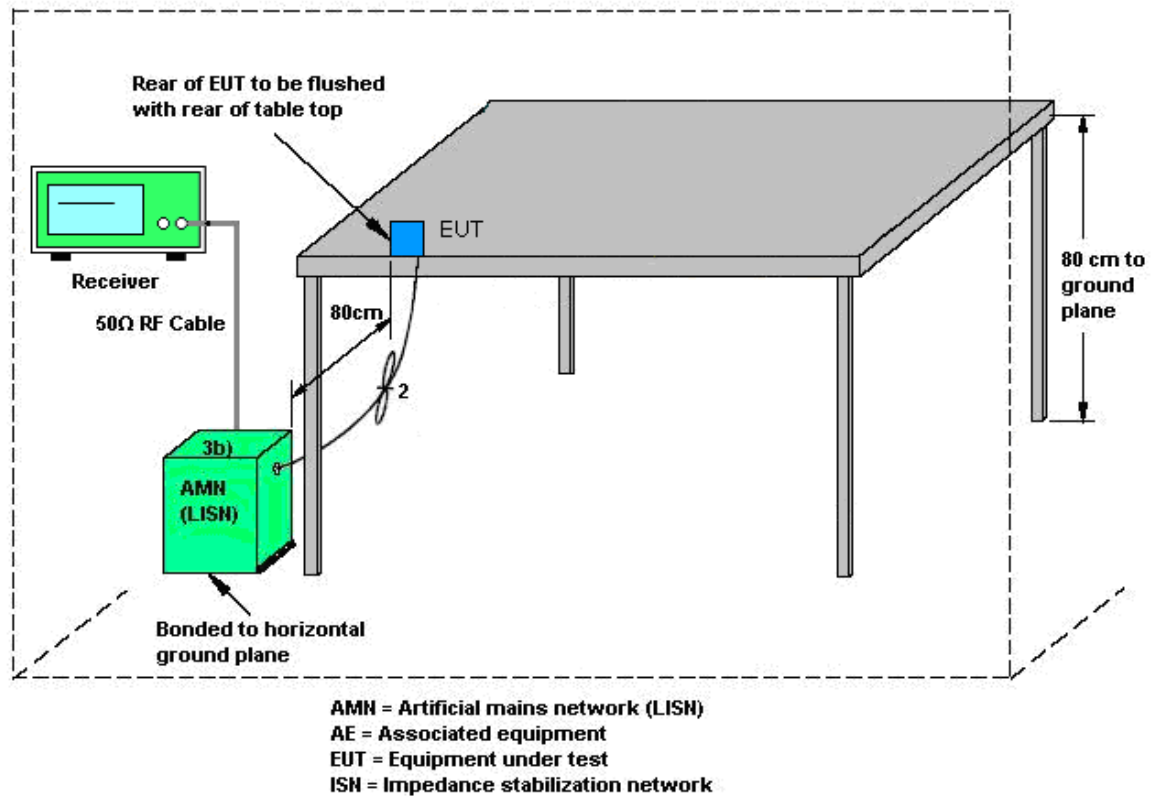
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

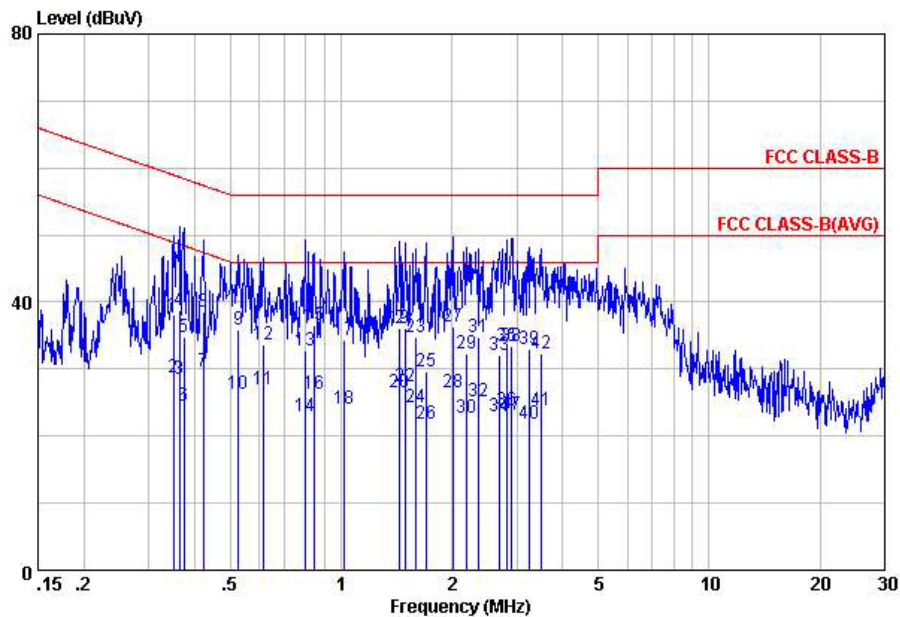
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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 1	Temperature :	19~20℃
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Idle + Adapter + Camera		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

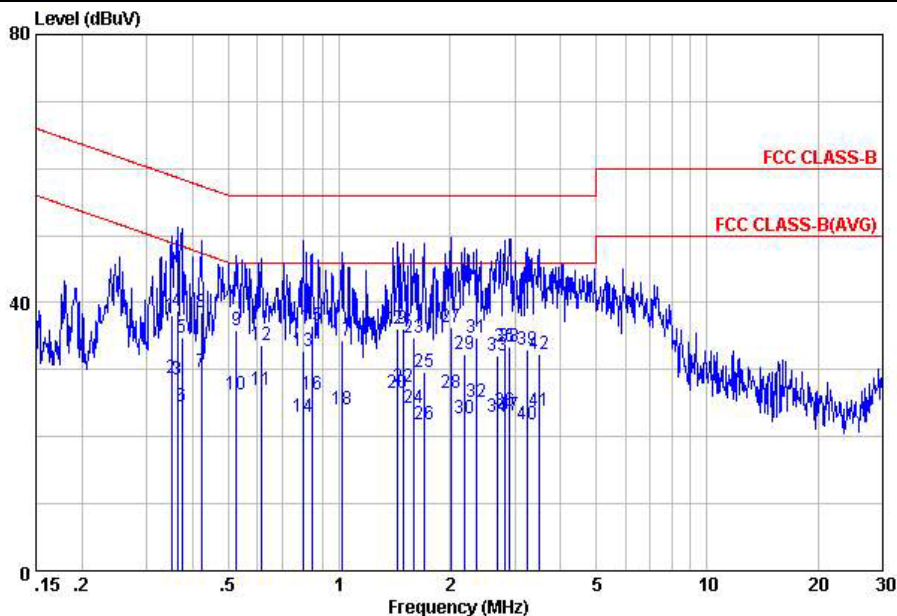


Site : C001-KS
Condition: FCC CLASS-B LISN-111230 LINE

mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.35	38.13	-20.83	58.96	27.60	-0.08	10.61	QP
2	0.35	28.73	-20.23	48.96	18.20	-0.08	10.61	Average
3	0.36	28.63	-20.02	48.65	18.10	-0.08	10.61	Average
4	0.36	38.73	-19.92	58.65	28.20	-0.08	10.61	QP
5	0.37	34.74	-23.69	58.43	24.21	-0.08	10.61	QP
6	0.37	24.44	-23.99	48.43	13.91	-0.08	10.61	Average
7	0.42	29.74	-17.68	47.42	19.20	-0.08	10.62	Average
8	0.42	38.54	-18.88	57.42	28.00	-0.08	10.62	QP
9	0.53	35.94	-20.06	56.00	25.39	-0.08	10.63	QP
10	0.53	26.34	-19.66	46.00	15.79	-0.08	10.63	Average
11	0.62	27.05	-18.95	46.00	16.51	-0.09	10.63	Average
12	0.62	33.75	-22.25	56.00	23.21	-0.09	10.63	QP
13	0.80	32.75	-23.25	56.00	22.19	-0.09	10.65	QP
14	0.80	22.95	-23.05	46.00	12.39	-0.09	10.65	Average
15	0.84	36.55	-19.45	56.00	26.00	-0.10	10.65	QP
16	0.84	26.25	-19.75	46.00	15.70	-0.10	10.65	Average
17	1.02	34.35	-21.65	56.00	23.80	-0.10	10.65	QP
18	1.02	24.15	-21.85	46.00	13.60	-0.10	10.65	Average
19	1.44	36.17	-19.83	56.00	25.60	-0.11	10.68	QP
20	1.44	26.47	-19.53	46.00	15.90	-0.11	10.68	Average
21	1.50	36.18	-19.82	56.00	25.61	-0.11	10.68	QP
22	1.50	27.48	-18.52	46.00	16.91	-0.11	10.68	Average
23	1.60	34.68	-21.32	56.00	24.10	-0.11	10.69	QP
24	1.60	24.18	-21.82	46.00	13.60	-0.11	10.69	Average
25	1.70	29.68	-26.32	56.00	19.10	-0.11	10.69	QP
26	1.70	21.88	-24.12	46.00	11.30	-0.11	10.69	Average
27	2.02	36.39	-19.61	56.00	25.80	-0.11	10.70	QP

Test Mode :	Mode 1	Temperature :	19~20°C
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Idle + Adapter + Camera		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

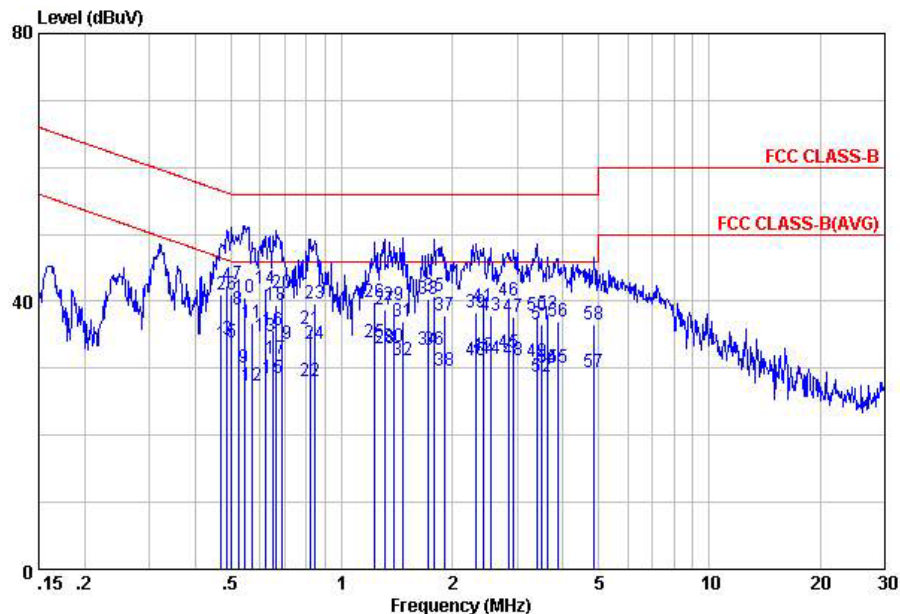


Site : C001-KS
Condition: FCC CLASS-B LISN-111230 LINE

mode : Mode 1

28	2.02	26.59	-19.41	46.00	16.00	-0.11	10.70	Average
29	2.20	32.40	-23.60	56.00	21.80	-0.11	10.71	QP
30	2.20	22.80	-23.20	46.00	12.20	-0.11	10.71	Average
31	2.36	34.81	-21.19	56.00	24.20	-0.11	10.72	QP
32	2.36	25.21	-20.79	46.00	14.60	-0.11	10.72	Average
33	2.69	32.13	-23.87	56.00	21.49	-0.11	10.75	QP
34	2.69	22.93	-23.07	46.00	12.29	-0.11	10.75	Average
35	2.81	33.45	-22.55	56.00	22.81	-0.12	10.76	QP
36	2.81	23.75	-22.25	46.00	13.11	-0.12	10.76	Average
37	2.90	23.16	-22.84	46.00	12.51	-0.12	10.77	Average
38	2.90	33.36	-22.64	56.00	22.71	-0.12	10.77	QP
39	3.24	33.08	-22.92	56.00	22.40	-0.12	10.80	QP
40	3.24	21.88	-24.12	46.00	11.20	-0.12	10.80	Average
41	3.49	23.79	-22.21	46.00	13.10	-0.12	10.81	Average
42	3.49	32.39	-23.61	56.00	21.70	-0.12	10.81	QP

Test Mode :	Mode 1	Temperature :	19~20℃
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Idle + Adapter + Camera		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

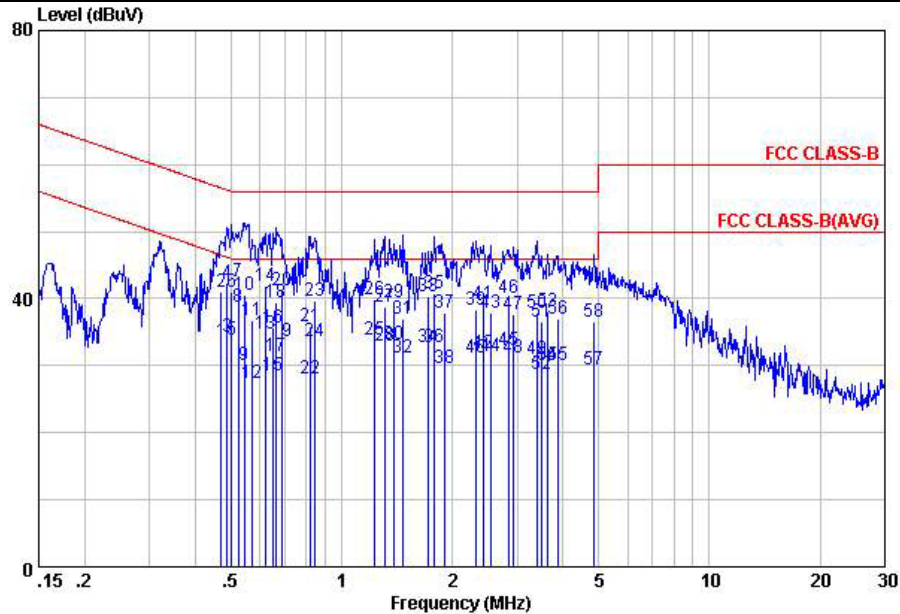


Site : C001-KS
Condition: FCC CLASS-B LISN-111230 NEUTRAL

mode : Mode 1

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.47	33.54	-12.95	46.49	23.00	-0.08	10.62	Average
2	0.47	40.94	-15.55	56.49	30.40	-0.08	10.62	QP
3	0.49	34.34	-11.85	46.19	23.80	-0.08	10.62	Average
4	0.49	42.34	-13.85	56.19	31.80	-0.08	10.62	QP
5	0.50	33.84	-12.16	46.00	23.30	-0.08	10.62	Average
6	0.50	41.04	-14.96	56.00	30.50	-0.08	10.62	QP
7	0.52	42.55	-13.45	56.00	32.00	-0.08	10.63	QP
8	0.52	38.85	-7.15	46.00	28.30	-0.08	10.63	Average
9	0.54	30.05	-15.95	46.00	19.50	-0.08	10.63	Average
10	0.54	40.45	-15.55	56.00	29.90	-0.08	10.63	QP
11	0.57	36.85	-19.15	56.00	26.30	-0.08	10.63	QP
12	0.57	27.45	-18.55	46.00	16.90	-0.08	10.63	Average
13	0.62	34.75	-11.25	46.00	24.20	-0.08	10.63	Average
14	0.62	41.95	-14.05	56.00	31.40	-0.08	10.63	QP
15	0.65	28.46	-17.54	46.00	17.90	-0.08	10.64	Average
16	0.65	35.56	-20.44	56.00	25.00	-0.08	10.64	QP
17	0.66	31.46	-14.54	46.00	20.90	-0.08	10.64	Average
18	0.66	39.46	-16.54	56.00	28.90	-0.08	10.64	QP
19	0.69	33.56	-12.44	46.00	23.00	-0.08	10.64	Average
20	0.69	41.26	-14.74	56.00	30.70	-0.08	10.64	QP
21	0.82	35.86	-20.14	56.00	25.29	-0.08	10.65	QP
22	0.82	28.06	-17.94	46.00	17.49	-0.08	10.65	Average
23	0.85	39.76	-16.24	56.00	29.20	-0.09	10.65	QP
24	0.85	33.66	-12.34	46.00	23.10	-0.09	10.65	Average
25	1.23	33.87	-12.13	46.00	23.30	-0.09	10.66	Average
26	1.23	39.87	-16.13	56.00	29.30	-0.09	10.66	QP
27	1.31	38.87	-17.13	56.00	28.30	-0.10	10.67	QP

Test Mode :	Mode 1	Temperature :	19~20°C
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Idle + Adapter + Camera		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

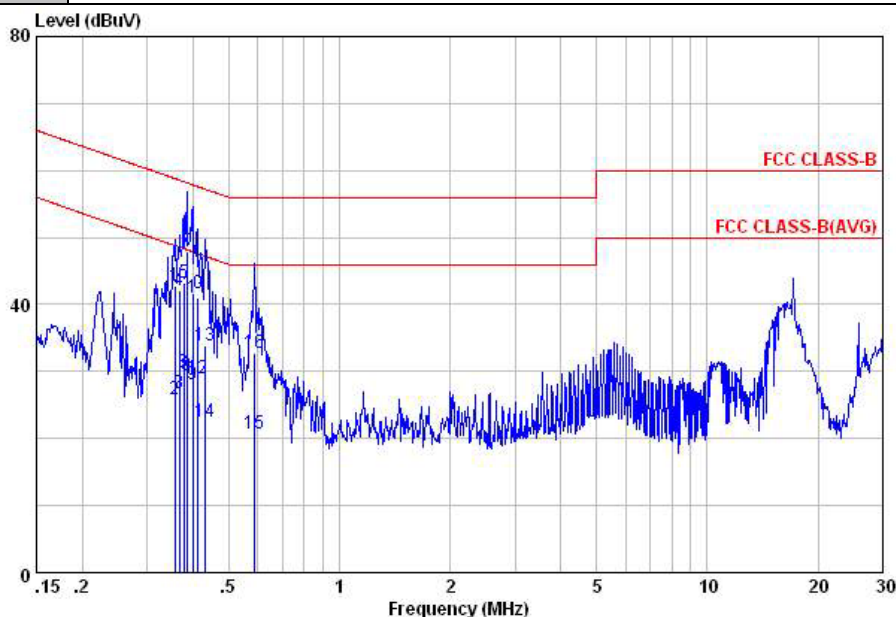


Site : C001-KS
Condition: FCC CLASS-B LISN-111230 NEUTRAL

mode : Mode 1

28	1.31	33.07	-12.93	46.00	22.50	-0.10	10.67	Average
29	1.38	39.37	-16.63	56.00	28.80	-0.10	10.67	QP
30	1.38	33.17	-12.83	46.00	22.60	-0.10	10.67	Average
31	1.47	36.98	-19.02	56.00	26.40	-0.10	10.68	QP
32	1.47	31.18	-14.82	46.00	20.60	-0.10	10.68	Average
33	1.73	40.39	-15.61	56.00	29.81	-0.11	10.69	QP
34	1.73	32.79	-13.21	46.00	22.21	-0.11	10.69	Average
35	1.79	40.79	-15.21	56.00	30.20	-0.11	10.70	QP
36	1.79	32.79	-13.21	46.00	22.20	-0.11	10.70	Average
37	1.91	37.89	-18.11	56.00	27.30	-0.11	10.70	QP
38	1.91	29.59	-16.41	46.00	19.00	-0.11	10.70	Average
39	2.31	38.41	-17.59	56.00	27.80	-0.11	10.72	QP
40	2.31	31.21	-14.79	46.00	20.60	-0.11	10.72	Average
41	2.43	39.21	-16.79	56.00	28.59	-0.11	10.73	QP
42	2.43	31.91	-14.09	46.00	21.29	-0.11	10.73	Average
43	2.55	37.82	-18.18	56.00	27.20	-0.11	10.73	QP
44	2.55	31.32	-14.68	46.00	20.70	-0.11	10.73	Average
45	2.84	32.35	-13.65	46.00	21.70	-0.12	10.77	Average
46	2.84	40.05	-15.95	56.00	29.40	-0.12	10.77	QP
47	2.93	37.76	-18.24	56.00	27.10	-0.12	10.78	QP
48	2.93	31.16	-14.84	46.00	20.50	-0.12	10.78	Average
49	3.40	30.99	-15.01	46.00	20.30	-0.12	10.81	Average
50	3.40	37.89	-18.11	56.00	27.20	-0.12	10.81	QP
51	3.49	36.49	-19.51	56.00	25.80	-0.12	10.81	QP
52	3.49	28.79	-17.21	46.00	18.10	-0.12	10.81	Average
53	3.64	37.99	-18.01	56.00	27.29	-0.12	10.82	QP
54	3.64	30.09	-15.91	46.00	19.39	-0.12	10.82	Average
55	3.86	30.10	-15.90	46.00	19.40	-0.13	10.83	Average
56	3.86	37.00	-19.00	56.00	26.30	-0.13	10.83	QP
57	4.85	29.32	-16.68	46.00	18.60	-0.13	10.85	Average
58	4.85	36.62	-19.38	56.00	25.90	-0.13	10.85	QP

Test Mode :	Mode 3	Temperature :	19~20°C
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN Idle + USB Cable (Data Link with PC)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

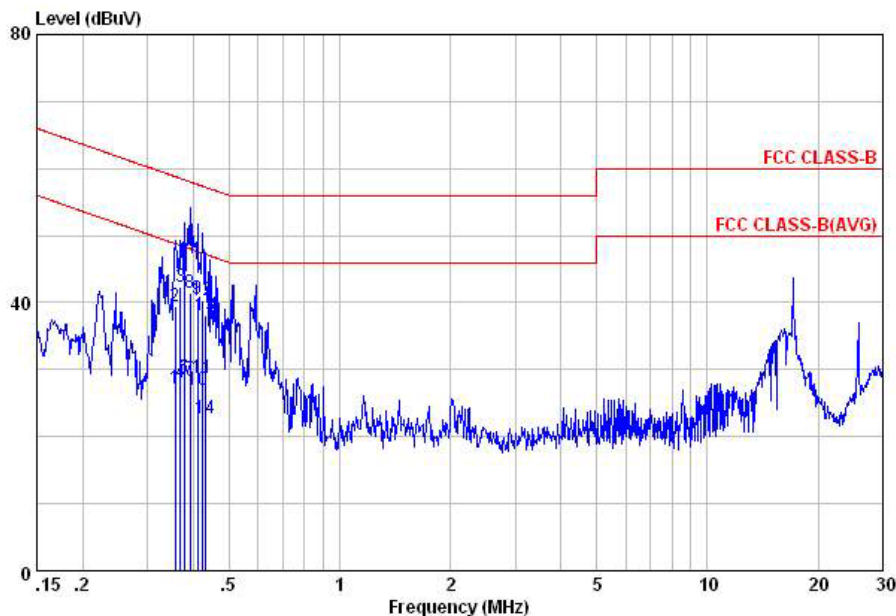


Site : C001-KS
Condition: FCC CLASS-B LISN-100807 LINE

mode : Mode 3

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.36	42.71	-16.07	58.78	32.61	-0.08	10.18	QP
2	0.36	25.81	-22.97	48.78	15.71	-0.08	10.18	Average
3	0.37	26.81	-21.75	48.56	16.71	-0.08	10.18	Average
4	0.37	42.21	-16.35	58.56	32.11	-0.08	10.18	QP
5	0.38	43.21	-15.13	58.34	33.10	-0.08	10.19	QP
6	0.38	29.81	-18.53	48.34	19.70	-0.08	10.19	Average
7	0.39	48.01	-10.16	58.17	37.90	-0.08	10.19	QP
8	0.39	29.41	-18.76	48.17	19.30	-0.08	10.19	Average
9	0.40	28.11	-19.75	47.86	18.00	-0.08	10.19	Average
10	0.40	41.71	-16.15	57.86	31.60	-0.08	10.19	QP
11	0.41	41.11	-16.53	57.64	31.00	-0.08	10.19	QP
12	0.41	28.91	-18.73	47.64	18.80	-0.08	10.19	Average
13	0.43	33.82	-23.38	57.20	23.70	-0.08	10.20	QP
14	0.43	22.42	-24.78	47.20	12.30	-0.08	10.20	Average
15	0.59	20.74	-25.26	46.00	10.60	-0.08	10.22	Average
16	0.59	32.74	-23.26	56.00	22.60	-0.08	10.22	QP

Test Mode :	Mode 3	Temperature :	19~20℃
Test Engineer :	Tom Wang	Relative Humidity :	39~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN Idle + USB Cable (Data Link with PC)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-KS
Condition: FCC CLASS-B LISN-100807 NEUTRAL

mode : Mode 3

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.36	27.21	-21.57	48.78	17.11	-0.08	10.18	Average
2	0.36	39.41	-19.37	58.78	29.31	-0.08	10.18	QP
3	0.37	42.41	-16.11	58.52	32.31	-0.08	10.18	QP
4	0.37	28.01	-20.51	48.52	17.91	-0.08	10.18	Average
5	0.38	28.71	-19.63	48.34	18.60	-0.08	10.19	Average
6	0.38	46.21	-12.13	58.34	36.10	-0.08	10.19	QP
7	0.39	28.61	-19.42	48.03	18.50	-0.08	10.19	Average
8	0.39	41.51	-16.52	58.03	31.40	-0.08	10.19	QP
9	0.41	40.61	-17.03	57.64	30.50	-0.08	10.19	QP
10	0.41	26.91	-20.73	47.64	16.80	-0.08	10.19	Average
11	0.42	28.82	-18.60	47.42	18.71	-0.08	10.19	Average
12	0.42	40.42	-17.00	57.42	30.31	-0.08	10.19	QP
13	0.43	38.02	-19.22	57.24	27.90	-0.08	10.20	QP
14	0.43	22.82	-24.42	47.24	12.70	-0.08	10.20	Average

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

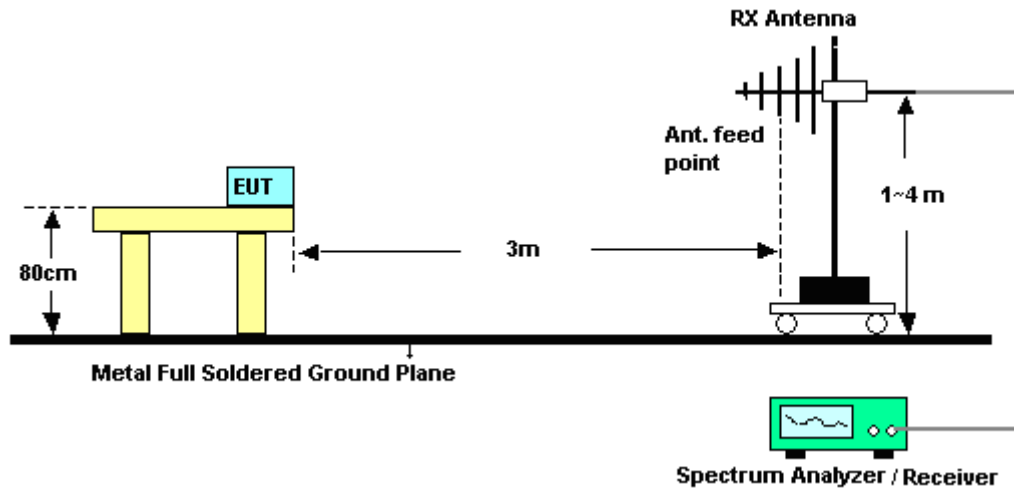
See list of measuring instruments of this test report.

3.2.3. Test Procedures

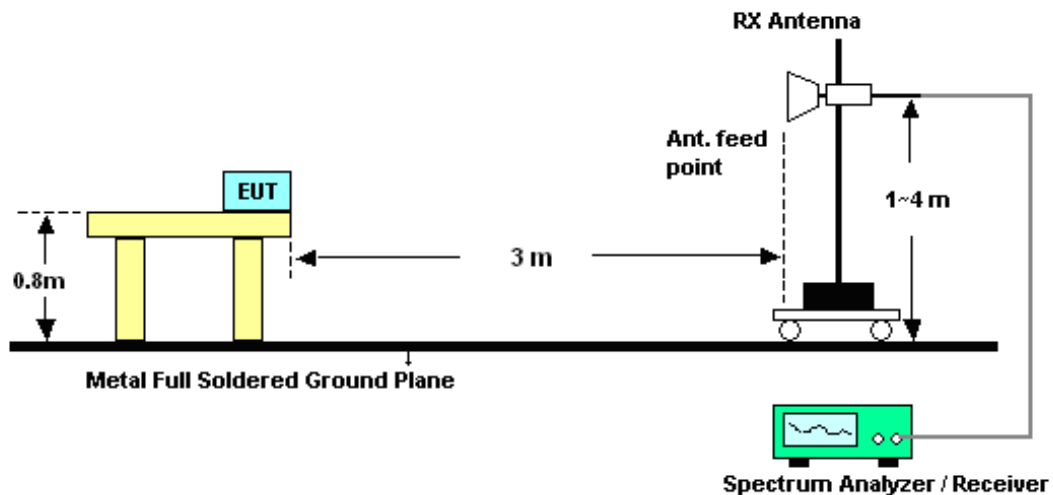
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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

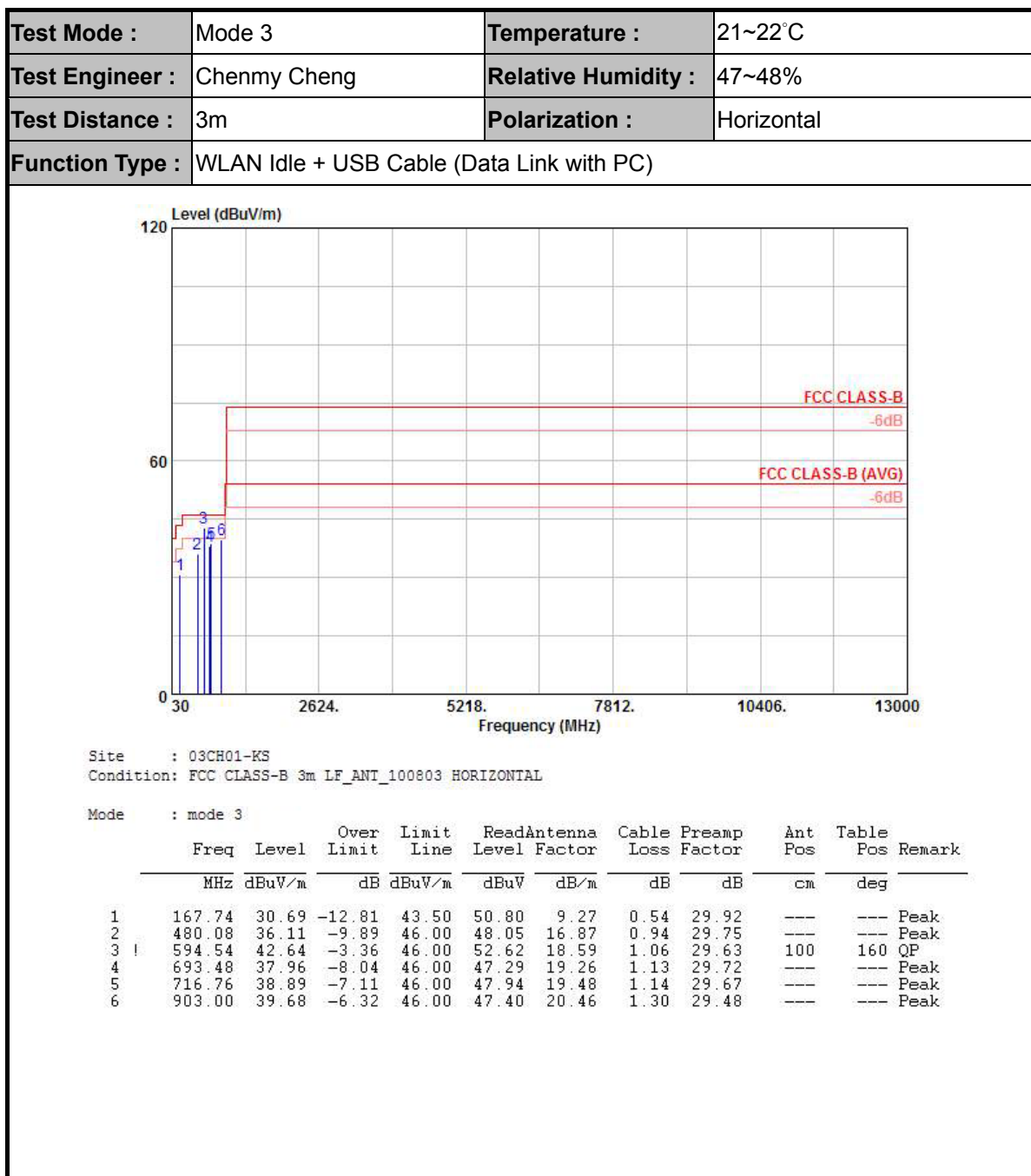
3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

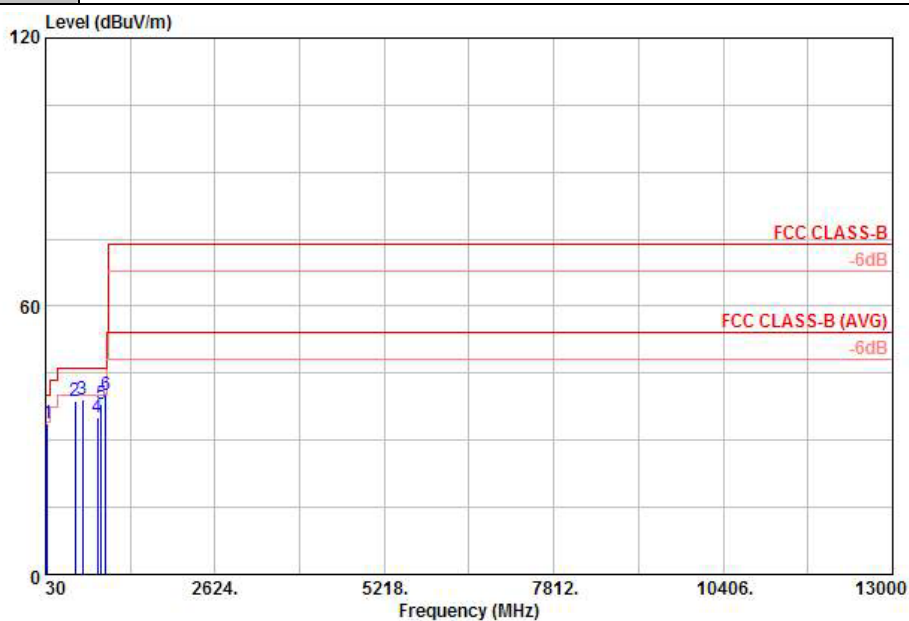


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission


Test Mode :	Mode 3	Temperature :	21~22°C
Test Engineer :	Chenmy Cheng	Relative Humidity :	47~48%
Test Distance :	3m	Polarization :	Vertical
Function Type :	WLAN Idle + USB Cable (Data Link with PC)		



Site : 03CH01-KS
Condition: FCC CLASS-B 3m LF_ANT_100803 VERTICAL

Mode : mode 3

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	55.22	33.80	-6.20	40.00	57.44	6.20	0.29	30.13	---	Peak
2	480.08	38.87	-7.13	46.00	50.81	16.87	0.94	29.75	---	Peak
3	594.54	39.17	-6.83	46.00	49.15	18.59	1.06	29.63	---	Peak
4	825.40	35.02	-10.98	46.00	43.20	20.18	1.26	29.62	---	Peak
5	879.72	38.17	-7.83	46.00	45.96	20.47	1.29	29.55	---	Peak
6	951.50	40.12	-5.88	46.00	47.59	20.74	1.33	29.54	100	206 Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz	Jun. 02, 2012	Jun. 28, 2012	Jun. 01, 2013	Conduction (CO01-KS)
LISN	MessTec	AN3016	60103	9kHz~30MHz	Dec. 30, 2011	Jun. 28, 2012	Dec. 29, 2012	Conduction (CO01-KS)
LISN	MessTec	AN3016	60105	9kHz~30MHz	Dec. 30, 2011	Jun. 28, 2012	Dec. 29, 2012	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	N/A	Nov. 16, 2011	Jun. 28, 2012	Nov. 15, 2012	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 09, 2011	Jun. 28, 2012	Nov. 08, 2012	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP40	100319	9kHz~40GHz	Dec. 30, 2011	Jun. 28, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Dec. 08, 2011	Jun. 28, 2012	Dec. 07, 2012	Radiation (03CH01-KS)
Double Ridge Horn Antenna	EMCO	3117	00075959	1GHz~18GHz	Jan. 06, 2012	Jun. 28, 2012	Jan. 05, 2013	Radiation (03CH01-KS)
Amplifier	Wireless	FPA-6592G	060007	30MHz~2GHz	Dec. 30, 2011	Jun. 28, 2012	Dec. 29, 2012	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Dec. 30, 2011	Jun. 28, 2012	Dec. 29, 2012	Radiation (03CH01-KS)

5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.72
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