FCC Test Report

APPLICANT	:	**CT Asia**
EQUIPMENT	:	**GSM Mobile Phone**
BRAND NAME	:	**BLU**
MODEL NAME	:	**Star JR**
FCC ID	:	**YHLBLUSTARJR**
STANDARD	:	**FCC 47 CFR FCC Part 15 Subpart B**
CLASSIFICATION	:	**Certification**

The product was testing completed on Apr. 23, 2014. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2003 and the testing has shown the tested sample to be in 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 (SHENZHEN) INC., the test report shall not be reproduced except in full.

Louis Wu

Reviewed by: Louis Wu / Manager

Jones Tsai

Approved by: Jones Tsai / Manager

Testing Laboratory
2353

SPORTON INTERNATIONAL (SHENZHEN) INC.
No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C.

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC411003	Rev. 01	Initial issue of report	May 04, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 15.48 dB at 0.340 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.38 dB at 336.400 MHz for Quasi-Peak

1. General Description

1.1. Applicant

CT Asia
Unit 01, 15/F, Seaview Centre, 139-141 Hoi bun road, Kwun Tong, Kowloon, Hongkong

1.2. Manufacturer

BEIJING BENYWAVE TECHNOLOGY CO., LTD.
NO.55 Jiachang 2 road, OPTO-Mechatronics Industrial Park, Tongzhou district, Beijing 101111

1.3. Feature of Equipment Under Test

Product Feature	
Equipment	GSM Mobile Phone
Brand Name	BLU
Model Name	Star JR
FCC ID	YHLBLUSTARJR
EUT supports Radios application	GSM/GPRS/EGPRS/WLAN2.4GHz 802.11b/g/n HT20
HW Version	TBT9611_P2_001
SW Version	961112_9342_VXXX
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.

1.4. Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	GSM850 : 824.2 MHz ~ 848.8 MHz GSM1900 : 1850.2 MHz ~ 1909.8MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz
Rx Frequency	GSM850 : 869.2 MHz ~ 893.8 MHz GSM1900 : 1930.2 MHz ~ 1989.8 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz
Antenna Type	WWAN : Fixed Internal Antenna WLAN : PIFA Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5. Modification of EUT

No modifications are made to the EUT during all test items.

1.6. Test Site

Test Site	SPORTON INTERNATIONAL (SHENZHEN) INC.		
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P.R.C. TEL: +86-755- 3320-2398		
Test Site No.	**Sporton Site No.**		**FCC Registration No.**
	CO01-SZ	03CH01-SZ	831040

1.7. Applicable 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

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

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.	Charging Mode (EUT with adapter)	☒	☒	☒
2.	Data application transferred mode (EUT connected with notebook)	☒	☒	☒

Abbreviations:

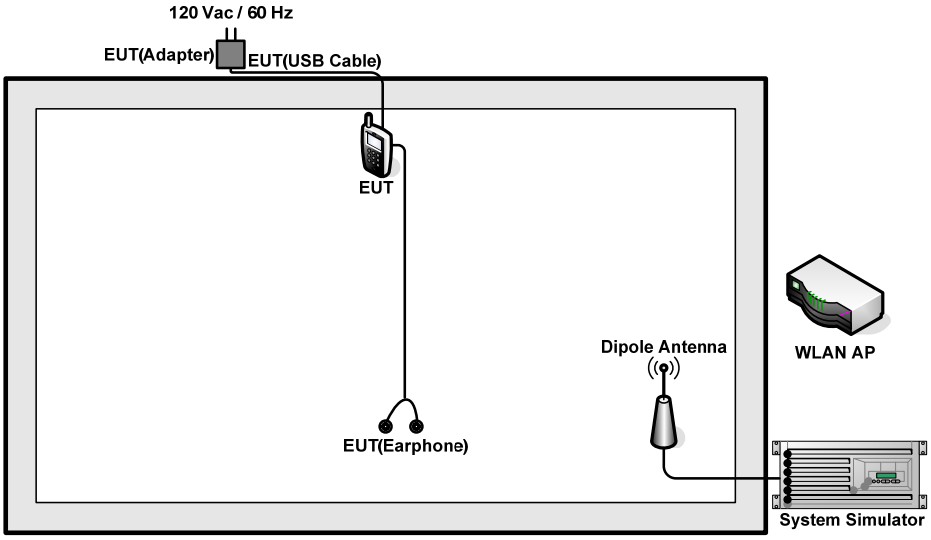
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1/2	Mode 1: GSM850 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1<Fig.1> Mode 2: GSM1900 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1<Fig.1> Mode 3: GSM850 Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1<Fig.2>
Radiated Emissions < 1GHz	1/2	Mode 1: GSM850 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera + SIM 1<Fig.1> Mode 2: GSM1900 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1<Fig.1> Mode 3: GSM850 Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1<Fig.2>
Radiated Emissions ≥ 1GHz	1/2	Mode 1: GSM1900 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1<Fig.1> Mode 2: GSM850 Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1<Fig.2>

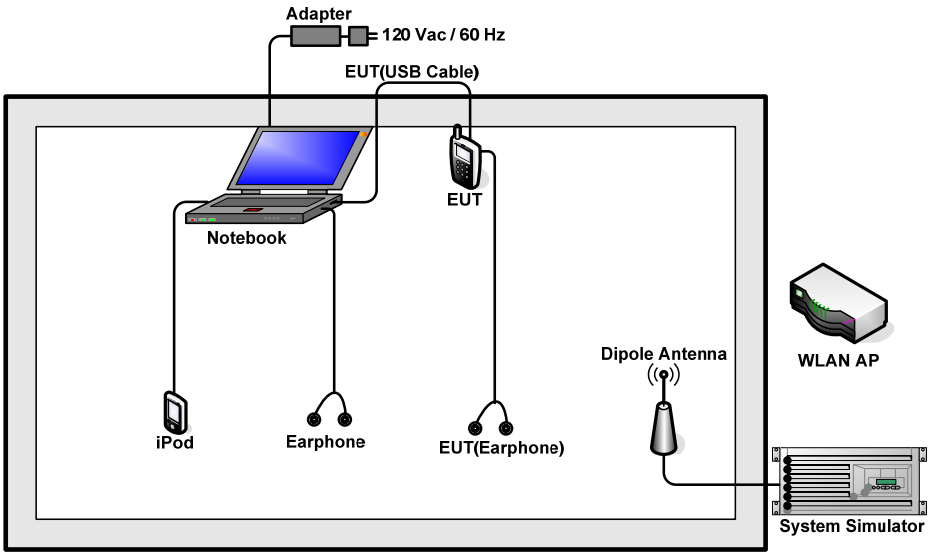
Remark:

1. The worst case of AC is mode 2; and the USB Link mode of AC is mode 3, the test data of these modes are reported.
2. The worst case of RE < 1G is mode 2; and the USB Link mode of RE< 1G is mode 3, the test data of these modes are reported.
3. Link with Notebook means data application transferred mode between EUT and Notebook.

2.2. Connection Diagram of Test System



<Fig.1>



<Fig.2>

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMW 500	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-815	KA2DIR815A1	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	Lenovo	G480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	4G class 4	FCC DoC	N/A	N/A
6.	iPod	Apple	MC690 ZP/A	FCC DoC	Shielded, 1.2m	N/A
7.	Earphone	Lenovo	SH100	N/A	Unshielded, 1.2 m	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM idle mode during the testing. The EUT was synchronized to the BCCH, and was in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, 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" under WINXP installed in notebook 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.

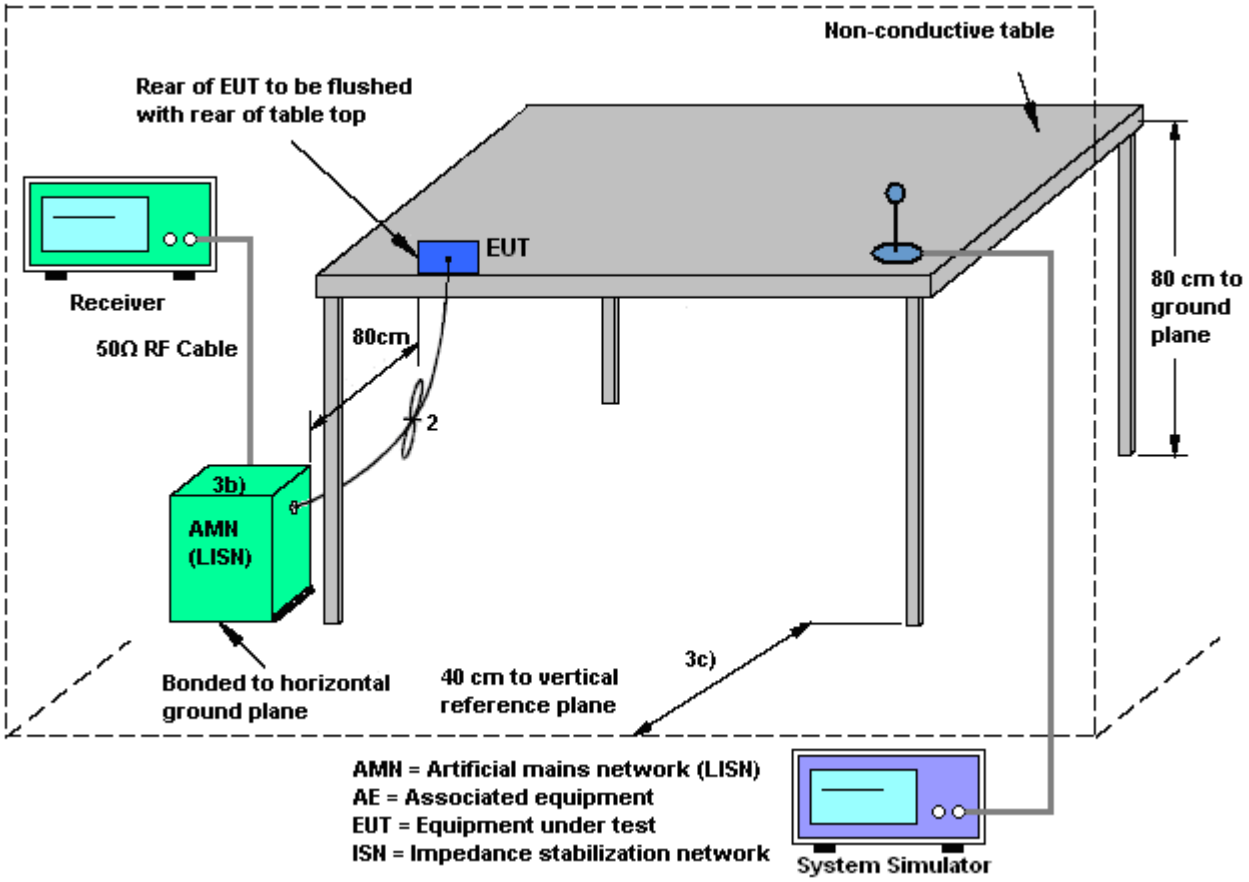
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

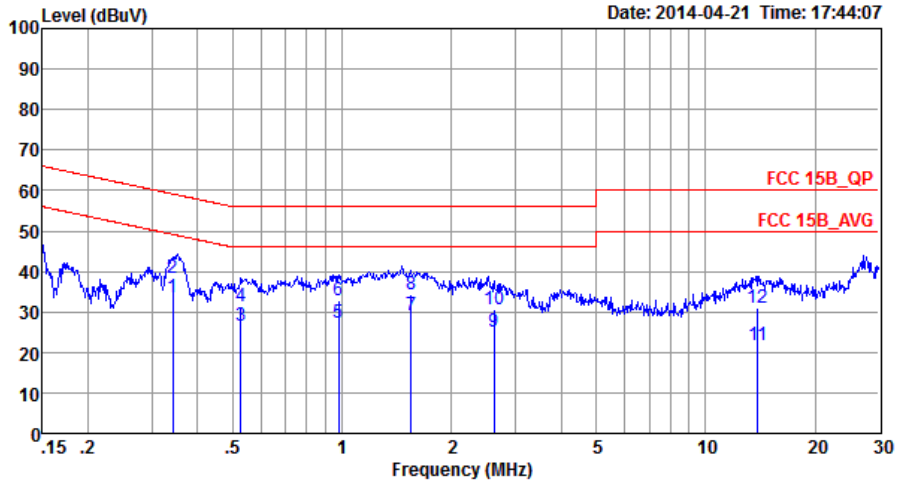
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

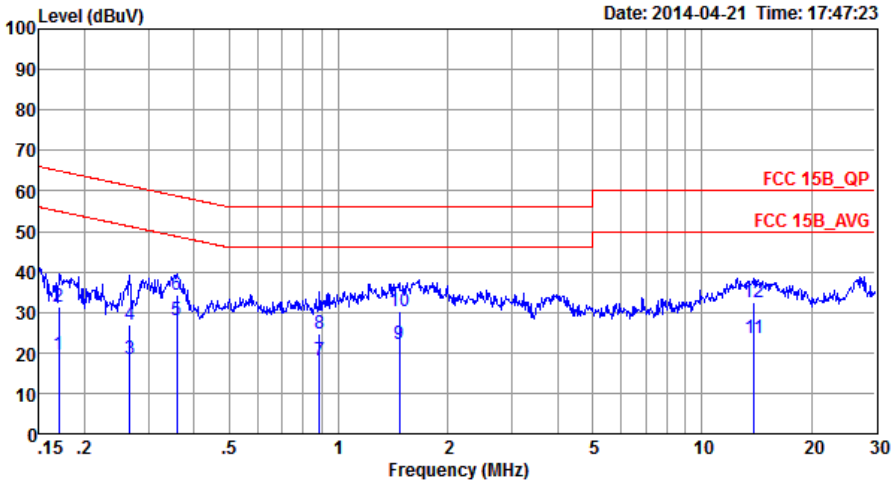
Test Mode :	Mode 2	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM1900 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_L_20140304 LINE
Project : (FC)411003
Mode : Mode 2

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	*	0.34	33.65	-15.48	49.13	23.19	0.27	10.19	Average
2		0.34	38.35	-20.78	59.13	27.89	0.27	10.19	QP
3		0.53	26.53	-19.47	46.00	16.10	0.28	10.15	Average
4		0.53	31.33	-24.67	56.00	20.90	0.28	10.15	QP
5		0.98	27.20	-18.80	46.00	16.80	0.25	10.15	Average
6		0.98	32.70	-23.30	56.00	22.30	0.25	10.15	QP
7		1.55	29.01	-16.99	46.00	18.61	0.23	10.17	Average
8		1.55	34.41	-21.59	56.00	24.01	0.23	10.17	QP
9		2.62	24.98	-21.02	46.00	14.50	0.28	10.20	Average
10		2.62	30.68	-25.32	56.00	20.20	0.28	10.20	QP
11		13.91	21.88	-28.12	50.00	10.10	1.29	10.49	Average
12		13.91	30.88	-29.12	60.00	19.10	1.29	10.49	QP

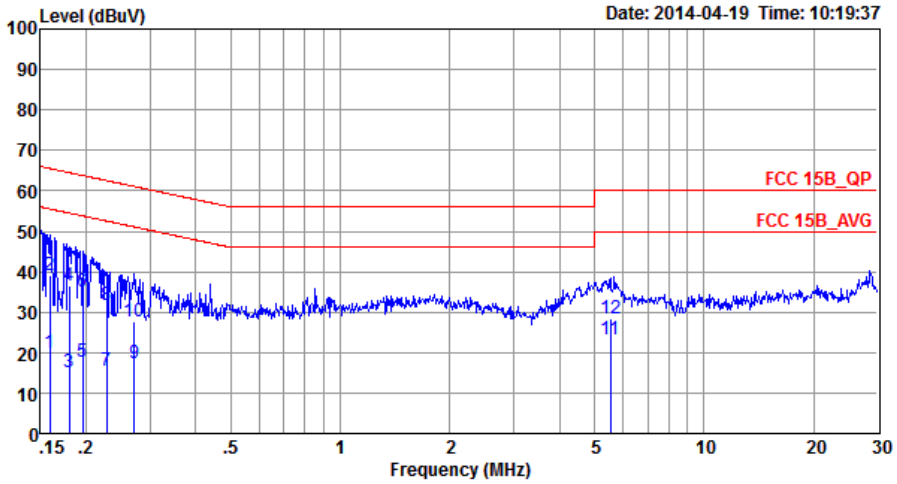
Test Mode :	Mode 2	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM1900 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL
Project : (FC)411003
Mode : Mode 2

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.17	19.66	-35.28	54.94	9.00	0.33	10.33	Average
2		0.17	31.26	-33.68	64.94	20.60	0.33	10.33	QP
3		0.27	18.58	-32.67	51.25	8.00	0.35	10.23	Average
4		0.27	26.98	-34.27	61.25	16.40	0.35	10.23	QP
5	*	0.36	27.86	-20.88	48.74	17.30	0.38	10.18	Average
6		0.36	34.26	-24.48	58.74	23.70	0.38	10.18	QP
7		0.88	18.15	-27.85	46.00	7.70	0.30	10.15	Average
8		0.88	24.75	-31.25	56.00	14.30	0.30	10.15	QP
9		1.47	22.12	-23.88	46.00	11.60	0.35	10.17	Average
10		1.47	30.32	-25.68	56.00	19.80	0.35	10.17	QP
11		13.91	23.73	-26.27	50.00	11.80	1.44	10.49	Average
12		13.91	32.33	-27.67	60.00	20.40	1.44	10.49	QP

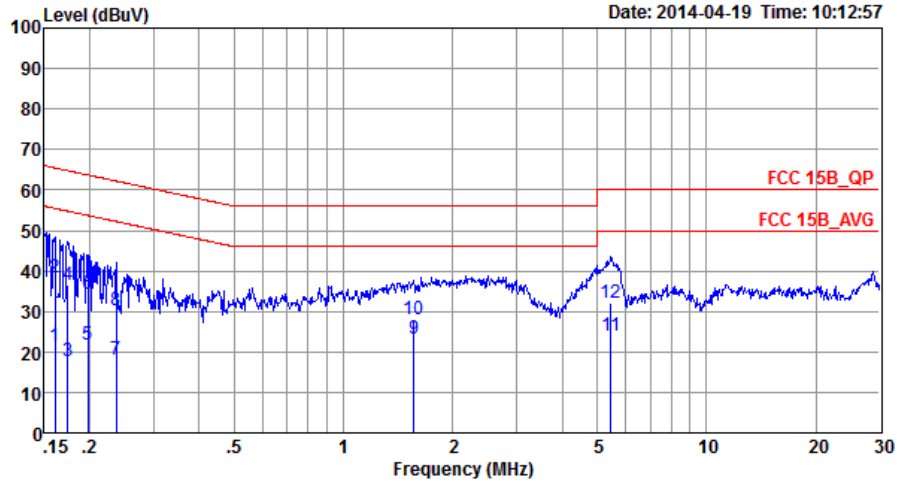
Test Mode :	Mode 3	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_L_20140304 LINE
Project : (FC)411003
Mode : Mode 3

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	20.07	-35.45	55.52	9.50	0.22	10.35	Average
2	*	0.16	39.27	-26.25	65.52	28.70	0.22	10.35	QP
3		0.18	15.24	-39.26	54.50	4.70	0.22	10.32	Average
4		0.18	36.64	-27.86	64.50	26.10	0.22	10.32	QP
5		0.20	17.72	-36.08	53.80	7.20	0.22	10.30	Average
6		0.20	35.02	-28.78	63.80	24.50	0.22	10.30	QP
7		0.23	15.39	-37.13	52.52	4.90	0.23	10.26	Average
8		0.23	31.69	-30.83	62.52	21.20	0.23	10.26	QP
9		0.27	17.27	-33.80	51.07	6.80	0.25	10.22	Average
10		0.27	27.77	-33.30	61.07	17.30	0.25	10.22	QP
11		5.53	23.36	-26.64	50.00	12.70	0.41	10.25	Average
12		5.53	28.26	-31.74	60.00	17.60	0.41	10.25	QP

Test Mode :	Mode 3	Temperature :	21~22℃
Test Engineer :	Jack Tian	Relative Humidity :	41~42%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1		



Site : CO01-SZ
Condition: FCC 15B_QP LISN_N_20140304 NEUTRAL
Project : (FC)411003
Mode : Mode 3

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1		0.16	21.27	-34.16	55.43	10.60	0.33	10.34	Average
2		0.16	38.47	-26.96	65.43	27.80	0.33	10.34	QP
3		0.17	17.75	-37.02	54.77	7.10	0.32	10.33	Average
4		0.17	36.65	-28.12	64.77	26.00	0.32	10.33	QP
5		0.20	21.82	-31.89	53.71	11.20	0.32	10.30	Average
6		0.20	34.22	-29.49	63.71	23.60	0.32	10.30	QP
7		0.24	18.09	-34.13	52.22	7.50	0.34	10.25	Average
8		0.24	30.39	-31.83	62.22	19.80	0.34	10.25	QP
9	*	1.56	23.23	-22.77	46.00	12.70	0.36	10.17	Average
10		1.56	27.93	-28.07	56.00	17.40	0.36	10.17	QP
11		5.45	24.13	-25.87	50.00	13.40	0.48	10.25	Average
12		5.45	32.13	-27.87	60.00	21.40	0.48	10.25	QP

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

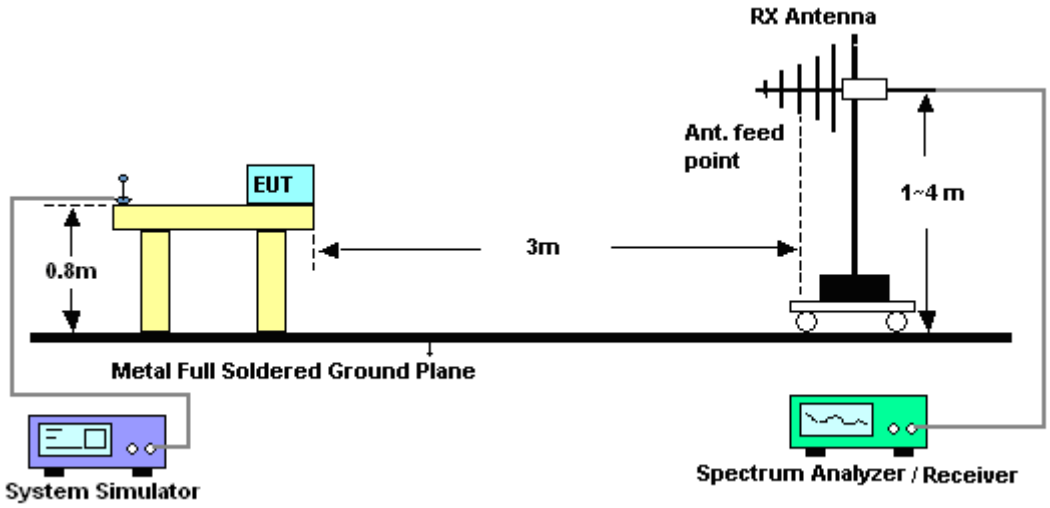
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

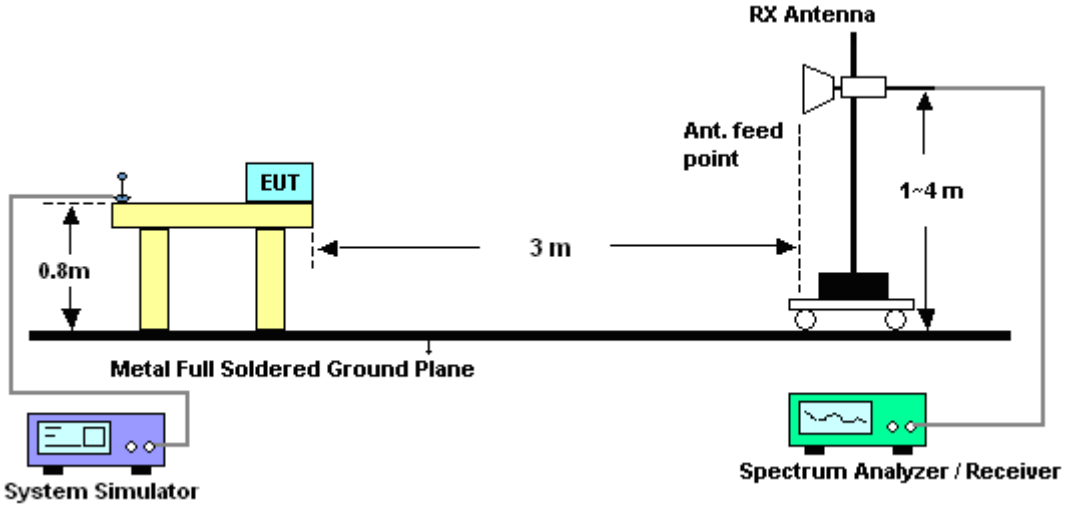
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between one to 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, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/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

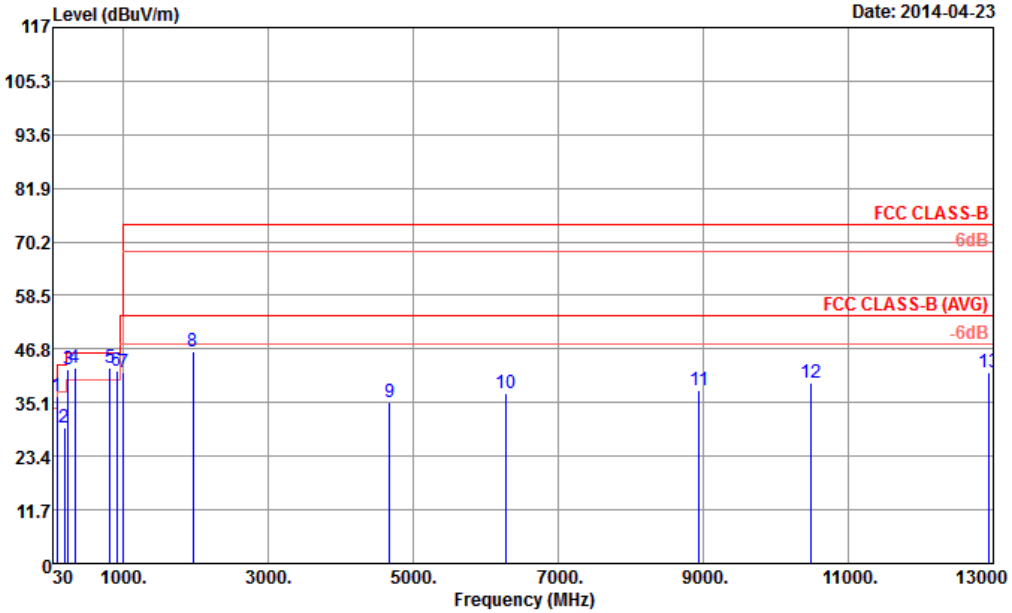


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

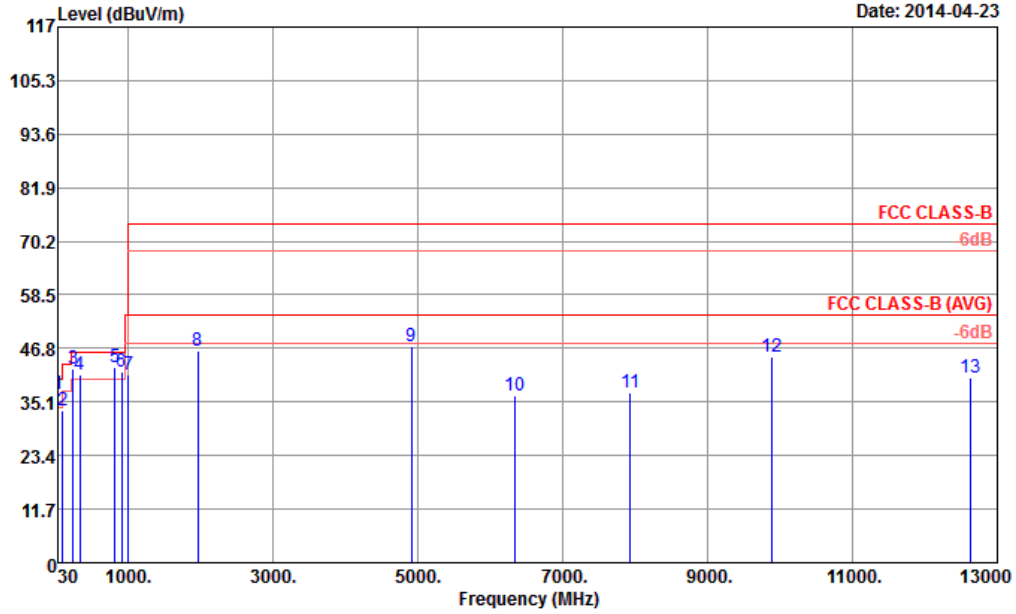
Test Mode :	Mode 2	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	42~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GSM1900 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1		
Remark :	#8 is system simulator signal which can be ignored.		



Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_131026 HORIZONTAL
Project : (FC)411003
Mode : Mode 2

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	P	90.75	36.54	-6.96	43.50	55.78	9.49	1.21	29.94	---	---	Peak
2		189.30	29.53	-13.97	43.50	49.21	8.61	1.65	29.94	---	---	Peak
3	!	240.06	42.50	-3.50	46.00	59.26	11.35	1.82	29.93	100	210	QP
4	Q	336.40	42.62	-3.38	46.00	56.23	14.20	2.12	29.93	100	245	QP
5	!	815.90	42.61	-3.39	46.00	48.94	20.40	3.20	29.93	100	360	QP
6	!	911.80	41.90	-4.10	46.00	47.36	21.12	3.36	29.94	118	230	QP
7		1008.00	41.85	-32.15	74.00	68.57	27.60	3.56	57.88	120	132	Peak
8		1960.00	46.39			68.26	29.72	5.10	56.69	---	---	Peak
9		4674.00	35.08	-38.92	74.00	50.93	33.48	8.20	57.53	---	---	Peak
10		6276.00	37.23	-36.77	74.00	49.95	34.00	9.57	56.29	---	---	Peak
11		8940.00	37.68	-36.32	74.00	45.45	36.32	11.11	55.20	---	---	Peak
12		10492.00	39.54	-34.46	74.00	46.79	36.71	12.92	56.88	---	---	Peak
13		12946.00	41.58	-32.42	74.00	44.70	38.71	14.34	56.17	---	---	Peak

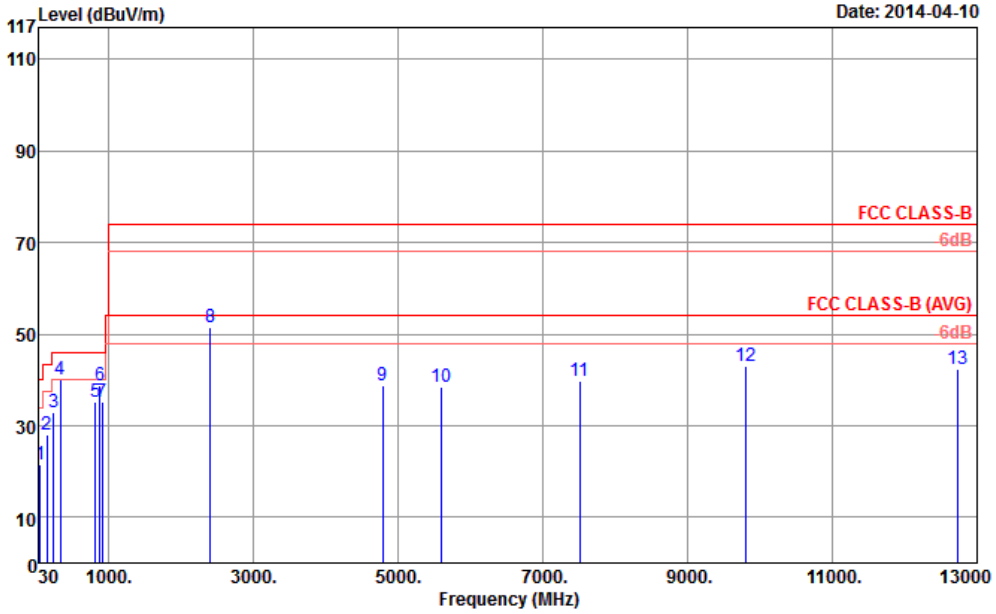
Test Mode :	Mode 2	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	42~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM1900 Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 + SIM 1		
Remark :	#8 is system simulator signal which can be ignored.		



Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL
Project : (FC)411003
Mode : Mode 2

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	P	36.21	36.67	-3.33	40.00	50.29	15.50	0.81	29.93	---	---	Peak
2		100.20	33.18	-10.32	43.50	50.66	11.20	1.26	29.94	---	---	Peak
3	!	240.06	42.25	-3.75	46.00	59.01	11.35	1.82	29.93	---	---	Peak
4	!	335.70	41.05	-4.95	46.00	54.66	14.20	2.12	29.93	---	---	Peak
5	Q	815.90	42.58	-3.42	46.00	48.91	20.40	3.20	29.93	100	151	QP
6	!	911.80	41.83	-4.17	46.00	47.29	21.12	3.36	29.94	132	201	QP
7		1008.00	40.94	-33.06	74.00	67.66	27.60	3.56	57.88	---	---	Peak
8		1960.00	46.15			68.02	29.72	5.10	56.69	---	---	Peak
9		4914.00	47.22	-26.78	74.00	61.88	34.01	8.44	57.11	152	230	Peak
10		6342.00	36.42	-37.58	74.00	49.20	34.00	9.63	56.41	---	---	Peak
11		7932.00	37.19	-36.81	74.00	48.16	34.78	10.62	56.37	---	---	Peak
12		9888.00	44.92	-29.08	74.00	52.38	36.86	12.49	56.81	---	---	Peak
13		12634.00	40.53	-33.47	74.00	44.28	38.14	14.25	56.14	---	---	Peak

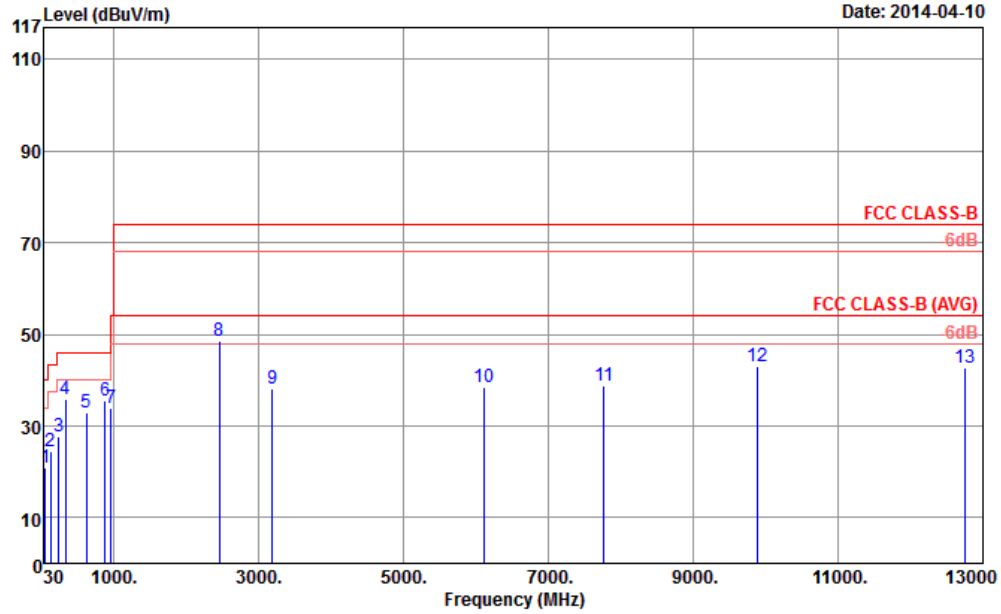
Test Mode :	Mode 3	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	42~52%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GSM850 Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1		
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_131026 HORIZONTAL
Project : (FC)411003
Mode : Mode 3

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1		56.19	21.59	-18.41	40.00	45.87	4.67	0.98	29.93	---	---	Peak
2		143.94	28.04	-15.46	43.50	46.00	10.53	1.45	29.94	---	---	Peak
3		240.06	32.93	-13.07	46.00	49.69	11.35	1.82	29.93	---	---	Peak
4	P	335.70	39.98	-6.02	46.00	53.59	14.20	2.12	29.93	120	50	Peak
5		815.90	35.07	-10.93	46.00	41.40	20.40	3.20	29.93	---	---	Peak
6		881.70	38.83			44.92	20.56	3.29	29.94	---	---	Peak
7		911.80	35.13	-10.87	46.00	40.59	21.12	3.36	29.94	---	---	Peak
8		2402.00	51.46	-22.54	74.00	70.61	31.98	5.62	56.75	154	123	Peak
9		4784.00	38.73	-35.27	74.00	54.00	33.74	8.31	57.32	---	---	Peak
10		5598.00	38.54	-35.46	74.00	51.76	34.00	9.07	56.29	---	---	Peak
11		7514.00	39.92	-34.08	74.00	52.73	34.03	10.06	56.90	---	---	Peak
12		9804.00	42.95	-31.05	74.00	50.54	36.73	12.32	56.64	---	---	Peak
13		12728.00	42.21	-31.79	74.00	45.76	38.32	14.28	56.15	---	---	Peak

Test Mode :	Mode 3	Temperature :	23~25°C
Test Engineer :	Kaer Huang	Relative Humidity :	42~52%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GSM850 Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + SIM 1		
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH01-SZ
Condition : FCC CLASS-B 3m LF_ANT_131026 VERTICAL
Project : (FC)411003
Mode : Mode 3

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	55.65	20.96	-19.04	40.00	45.29	4.63	0.97	29.93	---	---	Peak
2	130.71	24.34	-19.16	43.50	40.90	11.99	1.39	29.94	---	---	Peak
3	240.06	27.60	-18.40	46.00	44.36	11.35	1.82	29.93	---	---	Peak
4 P	335.70	35.82	-10.18	46.00	49.43	14.20	2.12	29.93	100	20	Peak
5	624.10	33.07	-12.93	46.00	41.57	18.60	2.82	29.92	---	---	Peak
6	881.70	35.41			41.50	20.56	3.29	29.94	---	---	Peak
7	960.10	33.90	-20.10	54.00	39.11	21.30	3.43	29.94	---	---	Peak
8	2460.00	48.50	-25.50	74.00	67.27	32.33	5.68	56.78	130	53	Peak
9	3188.00	38.26	-35.74	74.00	55.94	33.04	6.57	57.29	---	---	Peak
10	6116.00	38.41	-35.59	74.00	51.04	34.00	9.40	56.03	---	---	Peak
11	7770.00	38.78	-35.22	74.00	50.50	34.48	10.39	56.59	---	---	Peak
12	9878.00	42.98	-31.02	74.00	50.47	36.83	12.45	56.77	---	---	Peak
13	12752.00	42.56	-31.44	74.00	46.08	38.35	14.28	56.15	---	---	Peak

4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
ESCIO TEST Receiver	R&S	ESCI	100724	9kHz~3GHz	Feb. 21, 2014	Apr. 19, 2014~ Apr. 21, 2014	Feb. 20, 2015	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Mar. 04, 2014	Apr. 19, 2014~ Apr. 21, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Mar. 04, 2014	Apr. 19, 2014~ Apr. 21, 2014	Mar. 03, 2015	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Dec. 17, 2013	Apr. 19, 2014~ Apr. 21, 2014	Dec. 16, 2014	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV40	101078	10Hz~40GHz	Jun. 17, 2013	Apr. 10, 2014~ Apr. 23, 2014	Jun. 16, 2014	Radiation (03CH01-SZ)
Bilog Antenna	TESEQ	CBL 6112D	23188	30MHz~2GHz	Oct. 26, 2013	Apr. 10, 2014~ Apr. 23, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	00119436	1GHz~18GHz	Oct. 26, 2013	Apr. 10, 2014~ Apr. 23, 2014	Oct. 25, 2014	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz	Feb. 21, 2014	Apr. 10, 2014~ Apr. 23, 2014	Feb. 20, 2015	Radiation (03CH01-SZ)
Amplifier	Agilent	83017A	MY39501302	3Hz~26.5GHz	Mar. 03, 2014	Apr. 10, 2014~ Apr. 23, 2014	Mar. 02, 2015	Radiation (03CH01-SZ)
Turn Table	EM Electronics	EM 1000	N/A	0~360 degree	NCR	Apr. 10, 2014~ Apr. 23, 2014	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM Electronics	EM 1000	N/A	1 m~4 m	NCR	Apr. 10, 2014~ Apr. 23, 2014	NCR	Radiation (03CH01-SZ)

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))	**2.31**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.90**