

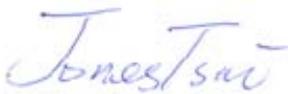
FCC Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : LTE USB Modem
BRAND NAME : ZTE
MODEL NAME : MF820B
FCC ID : Q78-MF820B
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Dec. 31, 2011 and completely tested on Mar. 27, 2012. 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.

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FCC ID : Q78-MF820B

Page Number : 1 of 21

Report Issued Date : Apr. 02, 2012

Report Version : Rev. 01



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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 19.5 dB at 0.190000 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 13.48 dB at 515.60 MHz



1. General Description

1.1. Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2. Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3. Feature of Equipment Under Test

Product Feature & Specification	
Equipment	LTE USB Modem
Brand Name	ZTE
Model Name	MF820B
FCC ID	Q78-MF820B
Tx Frequency Range	WCDMA Band V : 824 MHz ~ 849 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band II : 1850 MHz ~ 1910 MHz LTE Band 17: 704 MHz ~ 716 MHz LTE Band 12: 698 MHz ~ 716 MHz LTE Band 4: 1710MHz ~ 1755 MHz
Rx Frequency Range	WCDMA Band V : 869 MHz ~ 894 MHz WCDMA Band IV : 2110 MHz ~ 2155 MHz WCDMA Band II : 1930 MHz ~ 1990 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 12: 728 MHz ~ 746 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz
Antenna Type	PIFA Antenna
HW Version	xl3A+xi8A
SW Version	EN_CLA_MF820BV1.0.0B01
Type of Modulation	WCDMA : QPSK (Uplink) HSDPA : QPSK (Uplink) HSUPA : QPSK (Uplink) LTE: QPSK / 16QAM (uplink)
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. 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
- ANSI C63.4-2003

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This report is intention of applying for FCC 15B certification only.

1.6. Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
4.	Notebook	DELL	P20G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	iPod 4	Apple	A1285	DoC	Shielded, 1.0 m	N/A

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 notebook)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

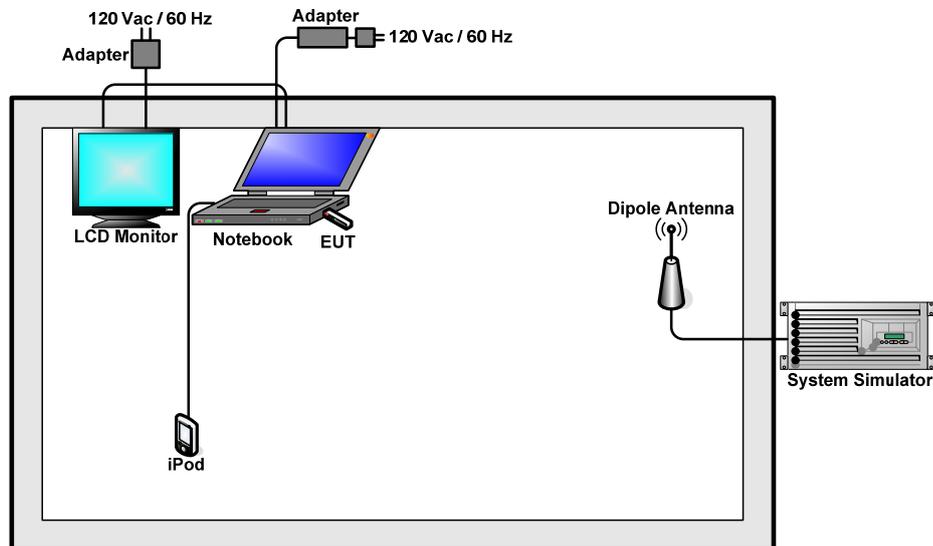
Abbreviations:

- 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: WCDMA Band V Idle (Charging from Notebook) Mode 2: WCDMA Band II Idle (Charging from Notebook) Mode 3: WCDMA Band IV Idle (Charging from Notebook) Mode 4: LTE Band 4 Idle (Charging from Notebook) Mode 5: LTE Band 12 Idle (Charging from Notebook) Mode 6: LTE Band 17 Idle (Charging from Notebook)
Radiated Emissions < 1GHz	1	Mode 1: WCDMA Band V Idle (Charging from Notebook) Mode 2: WCDMA Band II Idle (Charging from Notebook) Mode 3: WCDMA Band IV Idle (Charging from Notebook) Mode 4: LTE Band 4 Idle (Charging from Notebook) Mode 5: LTE Band 12 Idle (Charging from Notebook) Mode 6: LTE Band 17 Idle (Charging from Notebook)
Radiated Emissions ≥ 1GHz	1	Mode 1: LTE Band 4 Idle (Charging from Notebook)
Remark: <ol style="list-style-type: none">1. The worst case of AC Conducted Emission is mode 3; only the test data of this mode was reported.2. The worst case of RE < 1G is mode 4; only the test data of this mode was reported.		

2.2. Connection Diagram of Test System



2.3. Test Software

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

At the same time, The following programs installed in the EUT were programmed during the test.

1. Execute the program, the EUT charging from notebook directly.
2. Keep the EUT transmitting and receiving signals continuously from system simulator.

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.

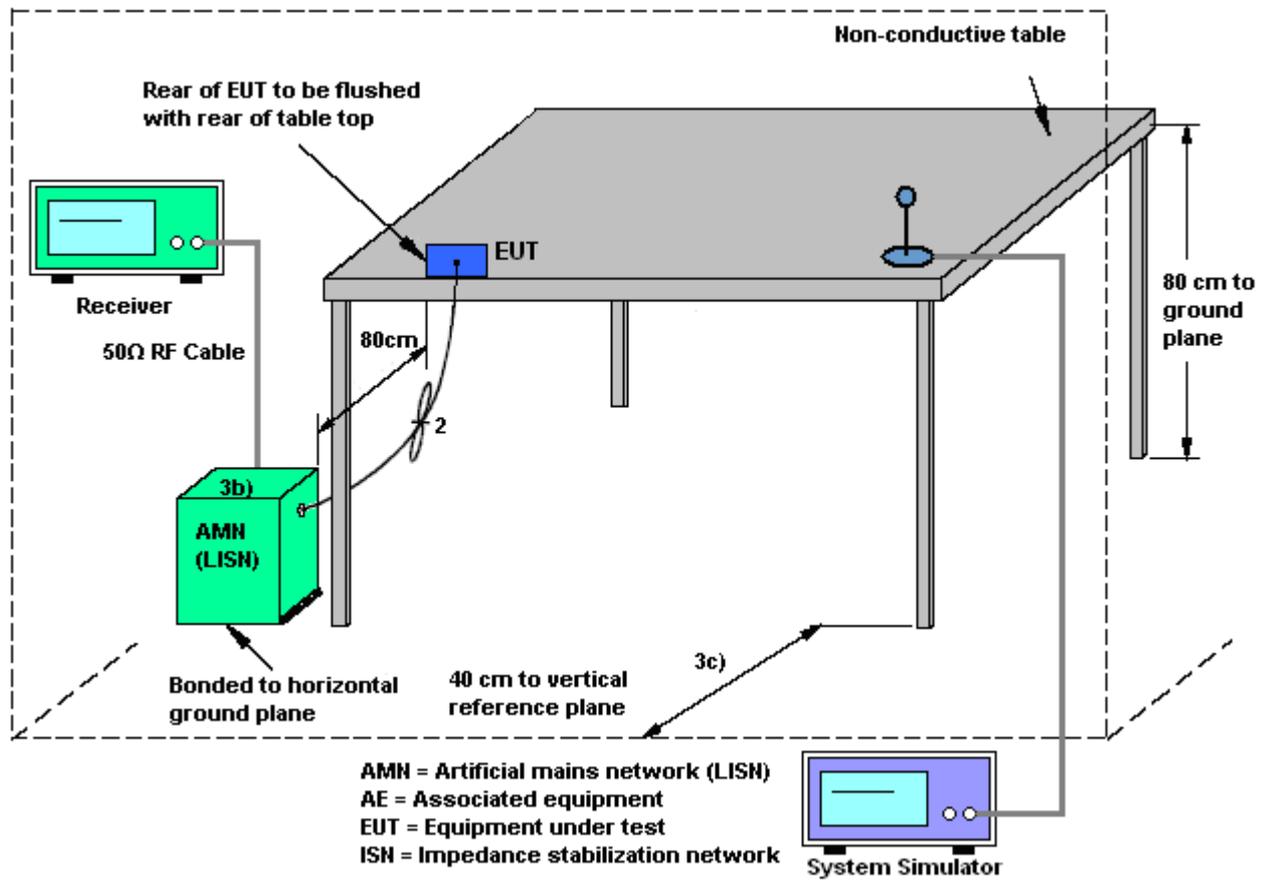
3.1.2 Measuring Instruments

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. The EUT charging from notebook, connect notebook 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.

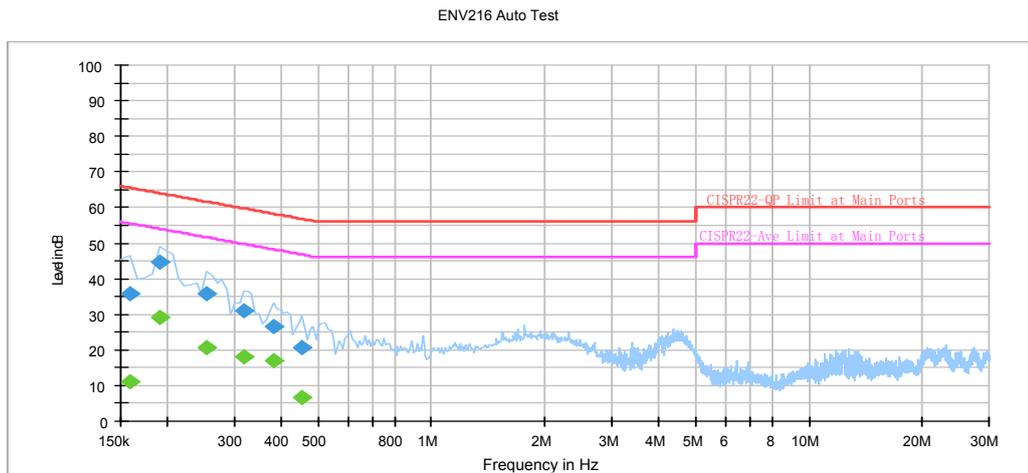
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 3	Temperature :	20~22°C
Test Engineer :	Slash Li	Relative Humidity :	40~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WCDMA Band IV Idle (Charging from Notebook)		
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)
0.158000	35.7	Off	L1	9.6	29.9	65.6
0.190000	44.5	Off	L1	9.6	19.5	64.0
0.254000	35.8	Off	L1	9.6	25.8	61.6
0.318000	30.9	Off	L1	9.6	28.9	59.8
0.382000	26.5	Off	L1	9.6	31.7	58.2
0.454000	20.5	Off	L1	9.6	36.3	56.8

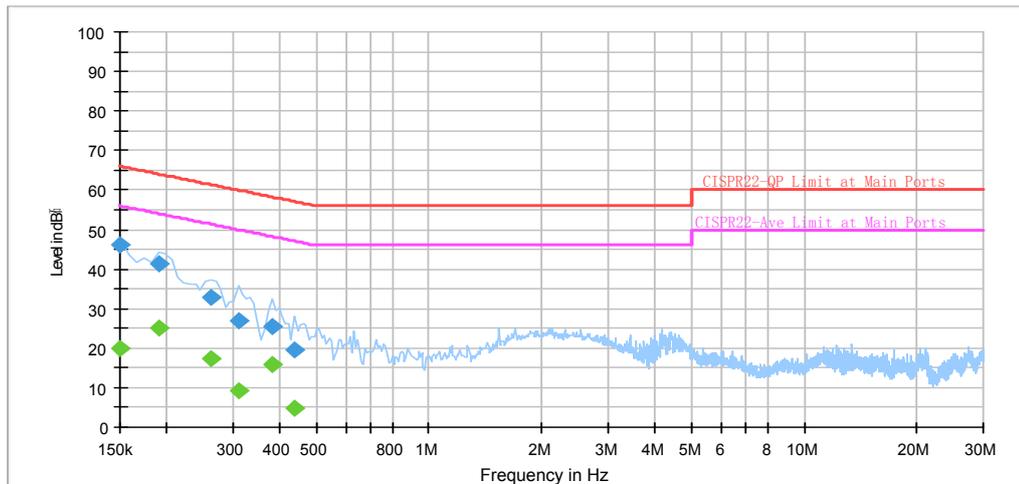
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	11.2	Off	L1	9.6	44.4	55.6
0.190000	29.1	Off	L1	9.6	24.9	54.0
0.254000	20.6	Off	L1	9.6	31.0	51.6
0.318000	18.1	Off	L1	9.6	31.7	49.8
0.382000	16.8	Off	L1	9.6	31.4	48.2
0.454000	6.6	Off	L1	9.6	40.2	46.8



Test Mode :	Mode 3	Temperature :	20~22°C
Test Engineer :	Slash Li	Relative Humidity :	40~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WCDMA Band IV Idle (Charging from Notebook)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

ENV216 Auto Test



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	46.0	Off	N	9.6	20.0	66.0
0.190000	41.5	Off	N	9.6	22.5	64.0
0.262000	32.8	Off	N	9.6	28.6	61.4
0.310000	27.1	Off	N	9.6	32.9	60.0
0.382000	25.6	Off	N	9.6	32.6	58.2
0.438000	19.4	Off	N	9.6	37.7	57.1

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	19.8	Off	N	9.6	36.2	56.0
0.190000	25.2	Off	N	9.6	28.8	54.0
0.262000	17.2	Off	N	9.6	34.2	51.4
0.310000	9.4	Off	N	9.6	40.6	50.0
0.382000	15.8	Off	N	9.6	32.4	48.2
0.438000	4.6	Off	N	9.6	42.5	47.1

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.

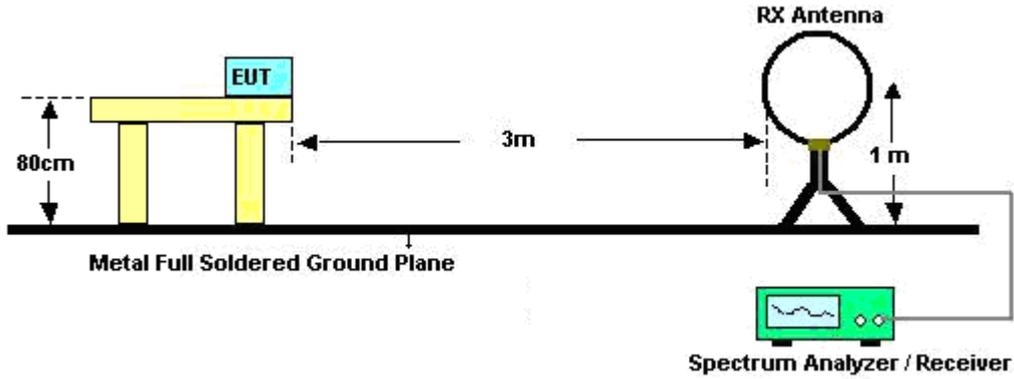


3.2.3. Test Procedures

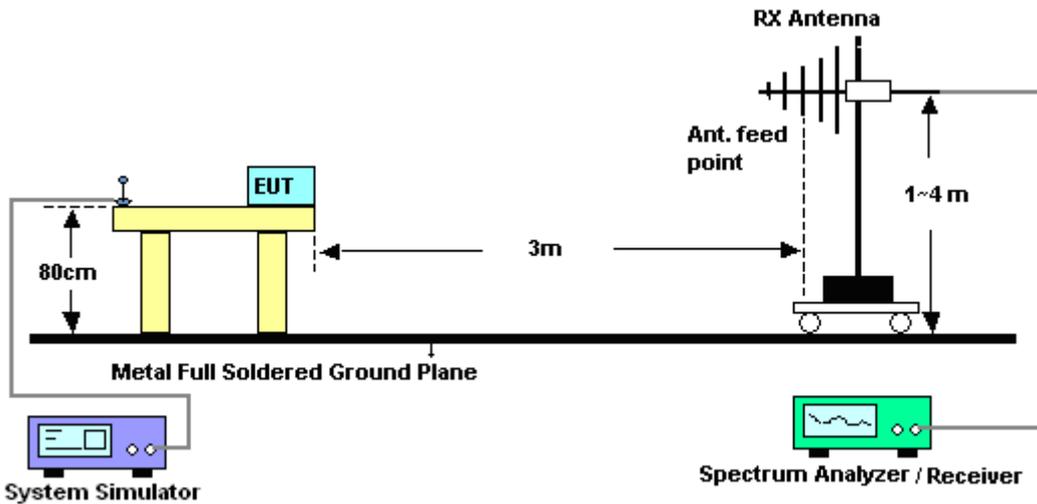
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

For radiated emissions below 30MHz



For radiated emissions above 30MHz



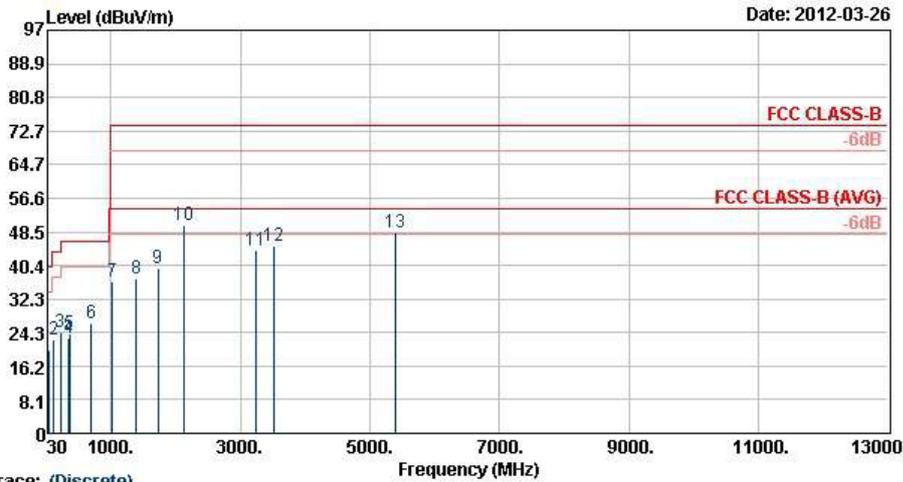
3.2.5. Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.2.6. Test Result of Radiated Emission

Test Mode :	Mode 4	Temperature :	21~24°C
Test Engineer :	Wii Chang	Relative Humidity :	51~55%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	LTE Band 4 Idle (Charging from Notebook)		
Remark :	#10 is system simulator signal which can be ignored.		

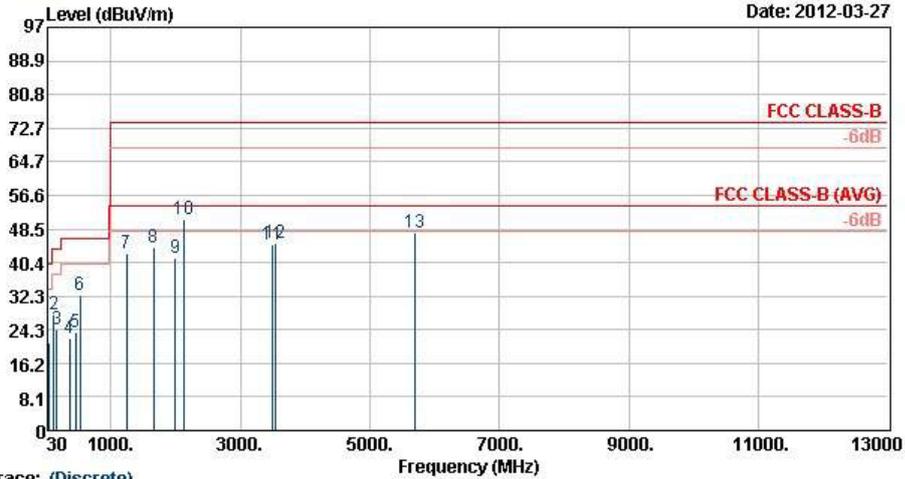


Trace: (Discrete)
 Site : 03CH06-HY
 Condition: FCC CLASS-B 3m HF-ANT_110802 HORIZONTAL
 Power : From System

Mode	: Mode 4										
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	38.10	20.07	-19.93	40.00	37.72	13.58	0.47	31.70	---	---	Peak
2	119.64	22.47	-21.03	43.50	41.01	11.88	1.29	31.71	---	---	Peak
3	216.30	24.21	-21.79	46.00	44.84	9.02	2.01	31.66	---	---	Peak
4	347.60	22.94	-23.06	46.00	37.94	14.18	2.39	31.57	---	---	Peak
5	357.40	24.09	-21.91	46.00	38.72	14.54	2.39	31.56	---	---	Peak
6	697.60	26.53	-19.47	46.00	36.03	18.97	3.54	32.01	100	73	Peak
7	1024.00	36.57	-37.43	74.00	59.36	27.80	3.41	54.00	---	---	Peak
8	1394.00	37.37	-36.63	74.00	59.67	27.80	3.94	54.04	---	---	Peak
9	1730.00	39.64	-34.36	74.00	59.78	29.53	4.47	54.14	---	---	Peak
10	2132.00	50.07			67.64	31.64	5.08	54.29	---	---	Peak
11	3248.00	44.01	-29.99	74.00	59.65	32.60	6.40	54.64	---	---	Peak
12	3526.00	45.23	-28.77	74.00	60.55	32.73	6.73	54.78	---	---	Peak
13	5388.00	48.20	-25.80	74.00	61.42	34.61	8.52	56.35	100	0	Peak



Test Mode :	Mode 4	Temperature :	21~24°C
Test Engineer :	Wii Chang	Relative Humidity :	51~55%
Test Distance :	3m	Polarization :	Vertical
Function Type :	LTE Band 4 Idle (Charging from Notebook)		
Remark :	#10 is system simulator signal which can be ignored.		



Trace: (Discrete)
 Site : 03CH06-HY
 Condition: FCC CLASS-B 3m HF-ANT_110802 VERTICAL
 Power : From System

Mode : Mode 4

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	34.05	21.09	-18.91	40.00	36.69	15.68	0.42	31.70	---	---	Peak
2	119.64	27.86	-15.64	43.50	46.40	11.88	1.29	31.71	---	---	Peak
3	160.14	24.35	-19.15	43.50	44.54	9.90	1.56	31.65	---	---	Peak
4	363.00	22.21	-23.79	46.00	36.77	14.65	2.38	31.59	---	---	Peak
5	454.00	23.70	-22.30	46.00	36.09	16.92	2.54	31.85	---	---	Peak
6	515.60	32.52	-13.48	46.00	43.68	17.70	2.95	31.81	100	44	Peak
7	1244.00	42.58	-31.42	74.00	65.07	27.80	3.73	54.02	---	---	Peak
8	1660.00	44.08	-29.92	74.00	64.78	29.03	4.39	54.12	---	---	Peak
9	1996.00	41.43	-32.57	74.00	59.25	31.50	4.93	54.25	---	---	Peak
10	2132.00	50.94			68.51	31.64	5.08	54.29	---	---	Peak
11	3498.00	44.82	-29.18	74.00	60.17	32.70	6.70	54.75	---	---	Peak
12	3528.00	45.02	-28.98	74.00	60.34	32.73	6.73	54.78	---	---	Peak
13	5702.00	47.75	-26.25	74.00	60.49	34.99	8.85	56.58	100	0	Peak



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receive	R&S	ESCS 30	100356	9KHz ~ 2.75GHz	Oct. 27, 2011	Mar. 27, 2012	Oct. 26, 2012	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9KHz ~ 30MHz	Dec. 09, 2011	Mar. 27, 2012	Dec. 08, 2012	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9KHz ~ 30MHz	Dec. 06, 2011	Mar. 27, 2012	Dec. 05, 2012	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	Mar. 27, 2012	N/A	Conduction (CO05-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz ~ 26.5GHz	Nov. 23, 2011	Mar. 26, 2012	Nov. 22, 2012	Radiation (03CH06-HY)
Spectrum Analyzer	R&S	FSP40	100057	9KHz ~ 40GHz	Oct. 27, 2011	Mar. 26, 2012	Oct. 26, 2012	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz ~ 1000MHz	May 10, 2011	Mar. 26, 2012	May 09, 2012	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz ~ 2GHz	Oct. 22, 2011	Mar. 26, 2012	Oct. 21, 2012	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Aug. 01, 2011	Mar. 26, 2012	Jul. 31, 2012	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz ~ 40GHz	Oct. 21, 2011	Mar. 26, 2012	Oct. 20, 2012	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1GHz ~ 26.5GHz	Apr. 14, 2011	Mar. 26, 2012	Apr. 13, 2012	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9KHz ~ 1GHz	Apr. 14, 2011	Mar. 26, 2012	Apr. 13, 2012	Radiation (03CH06-HY)
Pre Amplifier	EMCI	EMC051845	SN980048	1GHz ~ 18GHz	Jul. 18, 2011	Mar. 26, 2012	Jul. 17, 2012	Radiation (03CH06-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 29, 2010	Mar. 26, 2012	Jul. 28, 2012	Radiation (03CH06-HY)
System Simulator	R&S	CMU200	117591	N/A	Oct. 21, 2011	Mar. 26, 2012/ Mar. 27, 2012	Oct. 20, 2012	-
System Simulator	Anritsu	MT8820C	6201074414	N/A	Jan. 05, 2012	Mar. 26, 2012/ Mar. 27, 2012	Jan. 04, 2013	-

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 EP1D3102 as below.