47 CFR PART 15 SUBPART B

TEST REPORT

of

Mobile Telephone

Model Name: S13
Brand Name: SKYZEN
Report No.: SH08120001
FCC ID: WY8Z6150CS13

prepared for

WINGTECH GROUP INCORPORATION LIMITED
6th Floor,G area,No.668,
East Beijing Road,HuangPu District,Shanghai,China

prepared by

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1 TEST CERTIFICATION

Equipment under Test:	Mobile Telephone
Brand Name:	SKYZEN
Model Name:	S13
FCC ID:	WY8Z6150CS13
Applicant:	WINGTECH GROUP INCORPORATION LIMITED 6th Floor,G area,No.668,East Beijing Road,HuangPu District,Shanghai,China
Manufacturer:	WINGTECH GROUP INCORPORATION LIMITED 6th Floor,G area,No.668,East Beijing Road,HuangPu District,Shanghai, China
Test Standards:	47 CFR Part 15 Subpart B
Test Date(s):	Dec 10, 2008 –Dec 16, 2008
Test Result:	PASS

*** We Hereby Certify That:**

The equipment under test was tested by Shenzhen Electronic Product Quality Testing Center Morlab Laboratory. The test data, data evaluation, test procedures and equipment configurations shown in this report were made in accordance with the requirement of related FCC rules.

The test results of this report only apply for the tested sample equipment identified above. The test report shall be invalid without all the signatures of the test engineer, the reviewer and the approver.

Tested by: Huang Quanbo Dated: 2008.12.26
Huang Quanbo

Reviewed by: Lou Qinchao Dated: 2008.12.26
Lou Qinchao

Approved by: Su Feng Dated: 2008.12.26
Su Feng

2 GENERAL INFORMATION

2.1 EUT Description

EUT Type.....:	Mobile Telephone	
Model Name .....:	SKYZEN	
Serial No.....:	(n.a)	
IMEI .....:	000000000000000	
Hardware Version .....:	6185-1-30	
Software Version .....:	6150C_V011_SK_SPAN	
Modulation Type.....:	GMSK	
Power Supply.....:	Battery	
	Brand name:	HUIYE
	Mode no.:	HY-WIT-6150B
	Capacitance:	600mAh
	Rated voltage:	3.7V
	Charge limited:	4.25V
	Manufacturer:	Shenzhen Elite Electronic Co.,Ltd
	Manufacturer Address: Huiye Technology Park,Guanguang Road, Gongming Town,Guangmingxinqu,Shenzhen,China	
Ancillary Equipment 1 .....:	AC Adapter (Charger for Battery)	
	Model Name:	XKD-C0400IC5.0-4W-CN
	Brand Name:	MOSO
	Serial No.:	(n.a)
	Rated Input:	～ 100/240V,50/60Hz
	Rated Output:	DC 5V 400mA
	Manufacturer:	Shenzhen moso power supply technology co.,ltd.
	Wire Length:	(n.a)

Note 1: The EUT is a model of GSM 850/1900 mobile phone and GSM850/1900 are tested in the report.

Note 2: The normal configuration for the EUT is the MS associated with ancillary equipments e.g.theBattery and/or the AC Adapter(Charger).

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-05 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.107	Conducted Emission	PASS
2	15.109	Radiated Emission	PASS

2.3 Facilities and Accreditations

2.3.1 Facilities

Shenzhen Electronic Product Quality Testing Center Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Laboratories (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

All measurement facilities used to collect the measurement data are located at Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen 518055 CHINA. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

2.3.2 Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	20 – 25
Relative Humidity (%):	40 – 60
Atmospheric Pressure (kPa):	960

3 TEST CONDITIONS SETTING

3.1 Test Mode

1. The test modes of the EUT are showed as below:
   (1) Call mode
   The EUT configuration of the emission tests is EUT + Battery + Charger.
   During the measurement, the lithium battery was installed into the EUT, and the charger was connected to the EUT.A communication link was established between the EUT and a System Simulator (SS).
   (2) Idle mode
   The EUT configuration of the emission tests is EUT + Battery + Charger.
   Before the measurement, the lithium battery was completely discharge.
   The EUT was registered to the base station simulator but no call was set up.

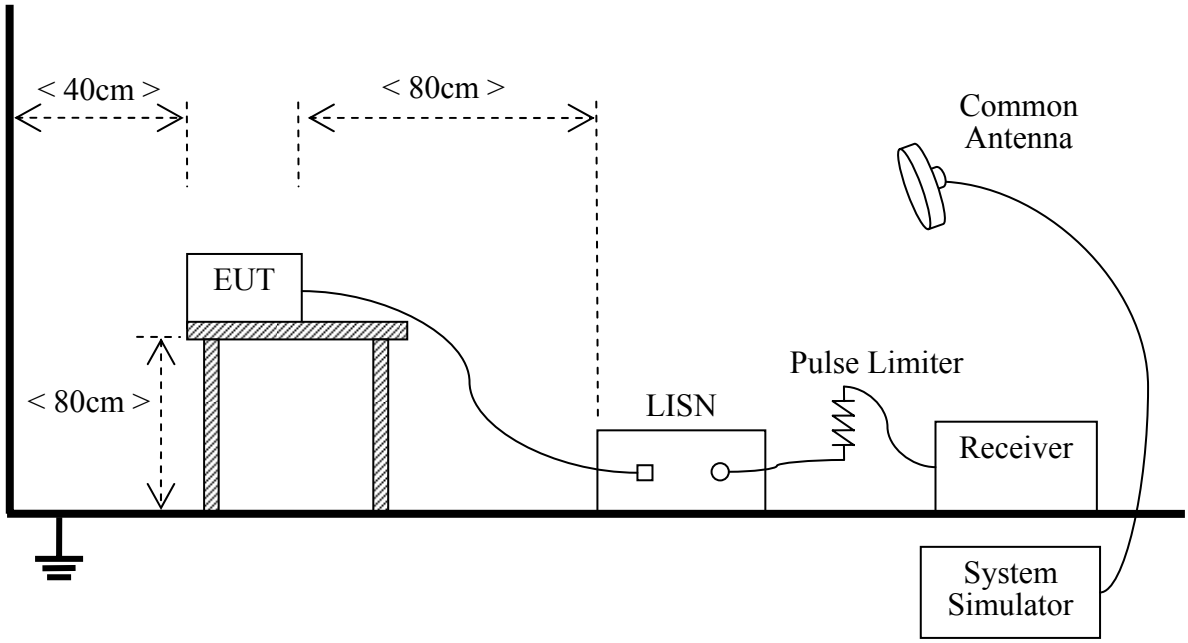
NOTE:

All test modes are performed, only the worst cases are recorded in this report.

3.2 Test Setup and Equipments List

3.2.1 Conducted Emission

A. Test Setup:



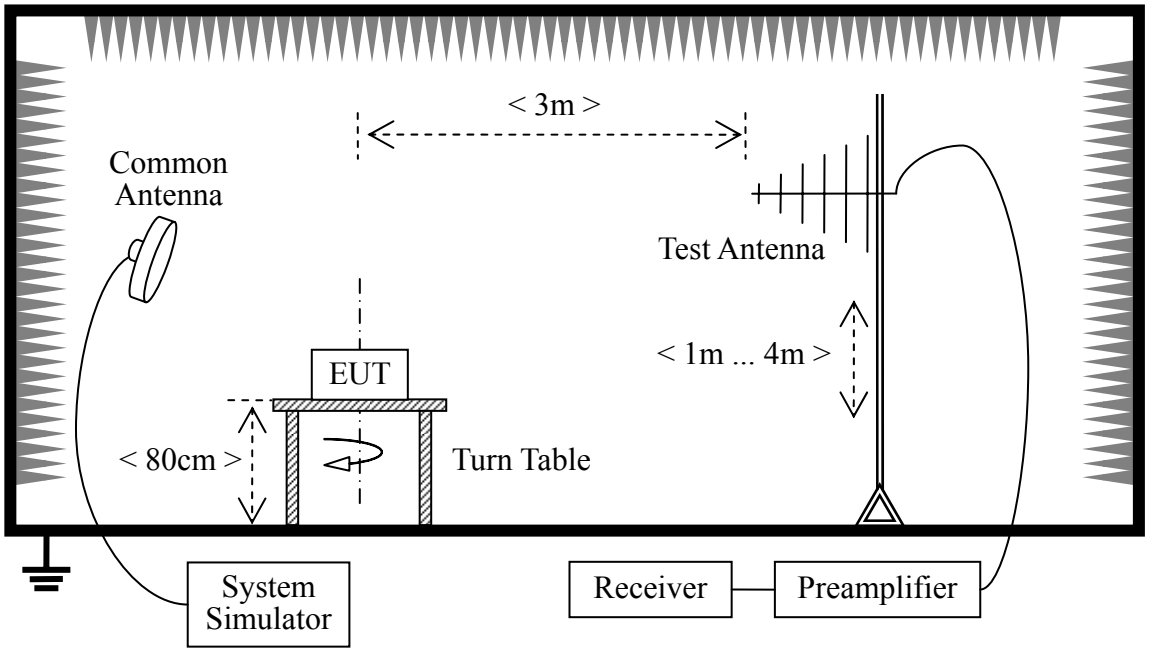
The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50Ω/50μH of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Rohde&Schwarz	ESCI3	100666	2008.11	1year
LISN	Rohde&Schwarz	ENV216	812744	2008.11	1year
System Simulator	Rohde&Schwarz	CMU200	105571	2008.12.	1year
Personal Computer	Lenovo	(n.a.)	(n.a.)	(n.a.)	(n.a.)

3.2.2 Radiated Emission

C. Test Setup:



The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower. The Common Antenna is used for the call between the EUT and the System Simulator (SS).

D. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Rohde&Schwarz	ESCI3	100666	2008.11	1year
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2008.11	1year
Test Antenna - Bi-Log	Rohde&Schwarz	HL562	100385	2008.11	1year
System Simulator	Rohde&Schwarz	CMU200	105571	2008.12	1year
Personal Computer	Lenovo	(n.a.)	(n.a.)	(n.a.)	(n.a.)

47 CFR PART 15B REQUIREMENTS

4 Conducted Emission

4.1 Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5- 30	60	50

NOTE:

a) The limit subjects to the Class B digital device.

b) The lower limit shall apply at the band edges.

c) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

4.2 Test Description

See section 3.2.1 of this report.

4.3 Test Result

The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

4.3.1.1 GSM Test Mode

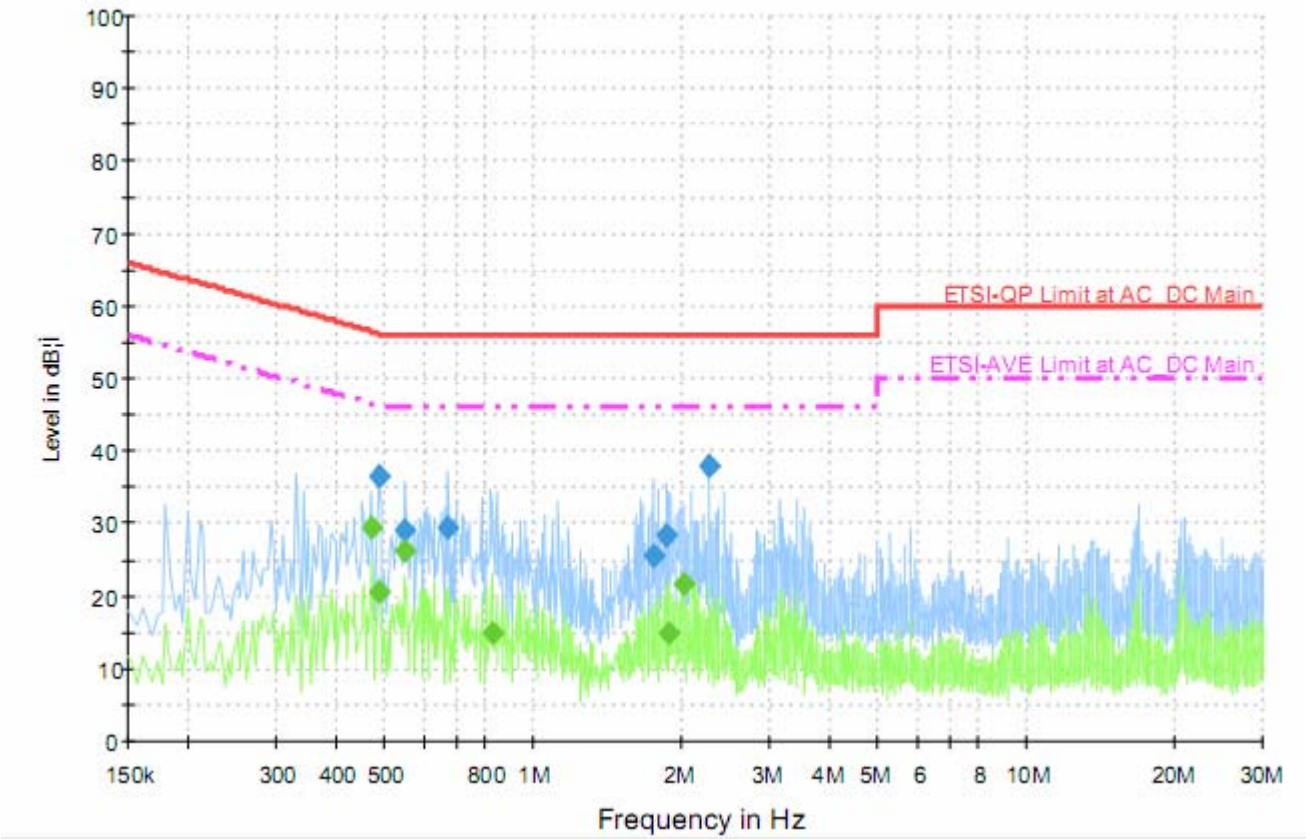
4.3.1.1.1 The test mode

The EUT configuration of the emission tests is EUT + Battery + Charger.

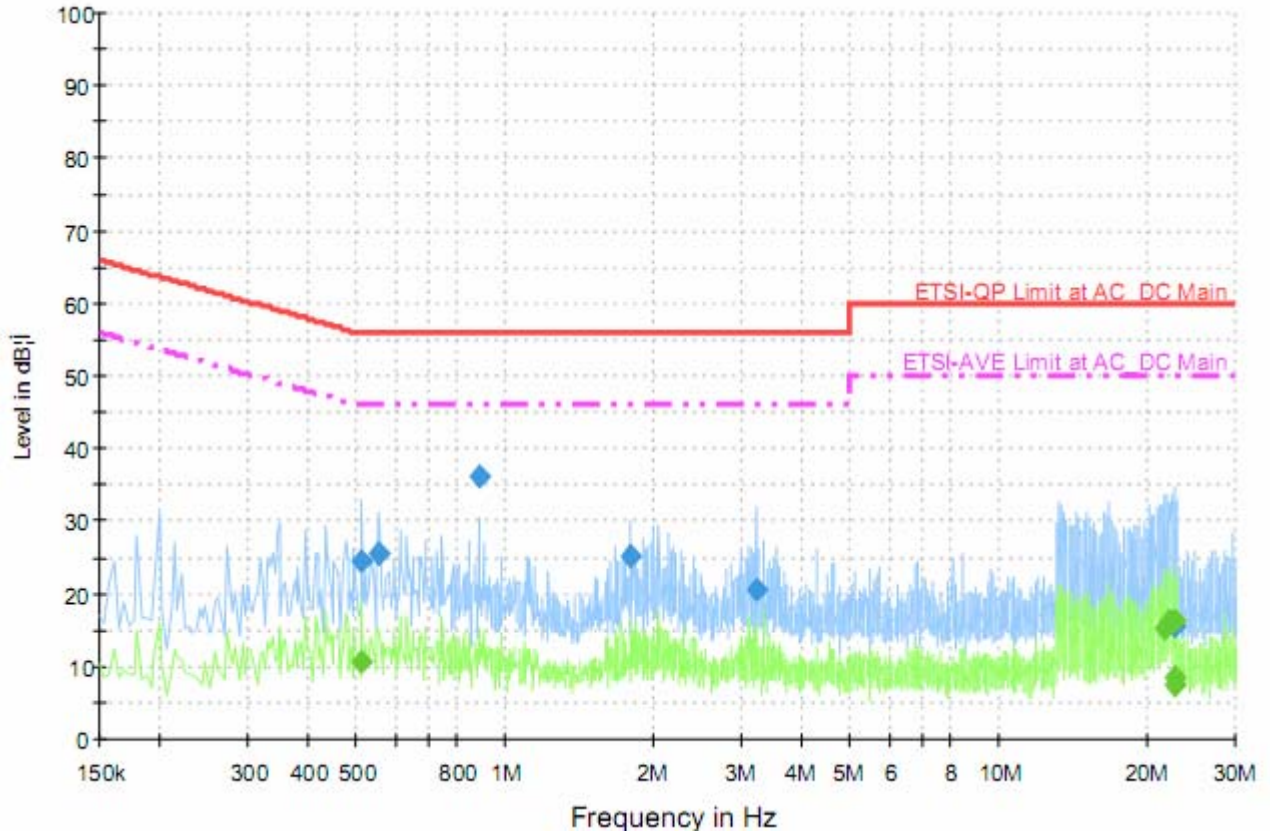
A. Test Verdict Recorded for Suspicious Points:

No.	@Frequency (MHz)	Measured Emission Level (dBμV)				Limit (dBμV)		Verdict
		PK	QP	AV	Phase	QP	AV	
1	0.485812	38.2	36.4	15.9	L	56.1	46.1	PASS
2	0.549244	31.3	29.1	29.7	L	56.0	46.0	PASS
3	0.668644	30.8	29.3	14.4	L	56.0	46.0	PASS
4	1.739512	26.6	25.6	16.4	L	56.0	46.0	PASS
5	1.858911	30.1	28.3	20.0	L	56.0	46.0	PASS
6	2.254425	39.2	37.9	13.6	L	56.0	46.0	PASS
7	0.511931	26.3	24.5	11.7	N	56.0	46.0	PASS
8	0.552975	27.3	25.4	27.3	N	56.0	46.0	PASS
9	0.881325	37.7	36.2	26.8	N	56.0	46.0	PASS
10	1.784288	37.2	25.0	22.6	N	56.0	46.0	PASS
11	3.202162	22.3	20.4	23.5	N	56.0	46.0	PASS
12	22.720331	17.2	15.7	20.3	N	56.0	46.0	PASS

B. Test Plot:



(Plot A: L Phase)



(Plot B: N Phase)

5 Radiated Emission

5.1 Requirement

According to FCC section 15.109, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency range (MHz)	Field Strength	
	μV/m	dBμV/m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

NOTE:

a) Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].

b) In the emission tables above, the tighter limit applies at the band edges.

5.2 Test Description

See section 3.2.2 of this report.

5.3 Test Result

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

5.3.1.1 GSM test mode

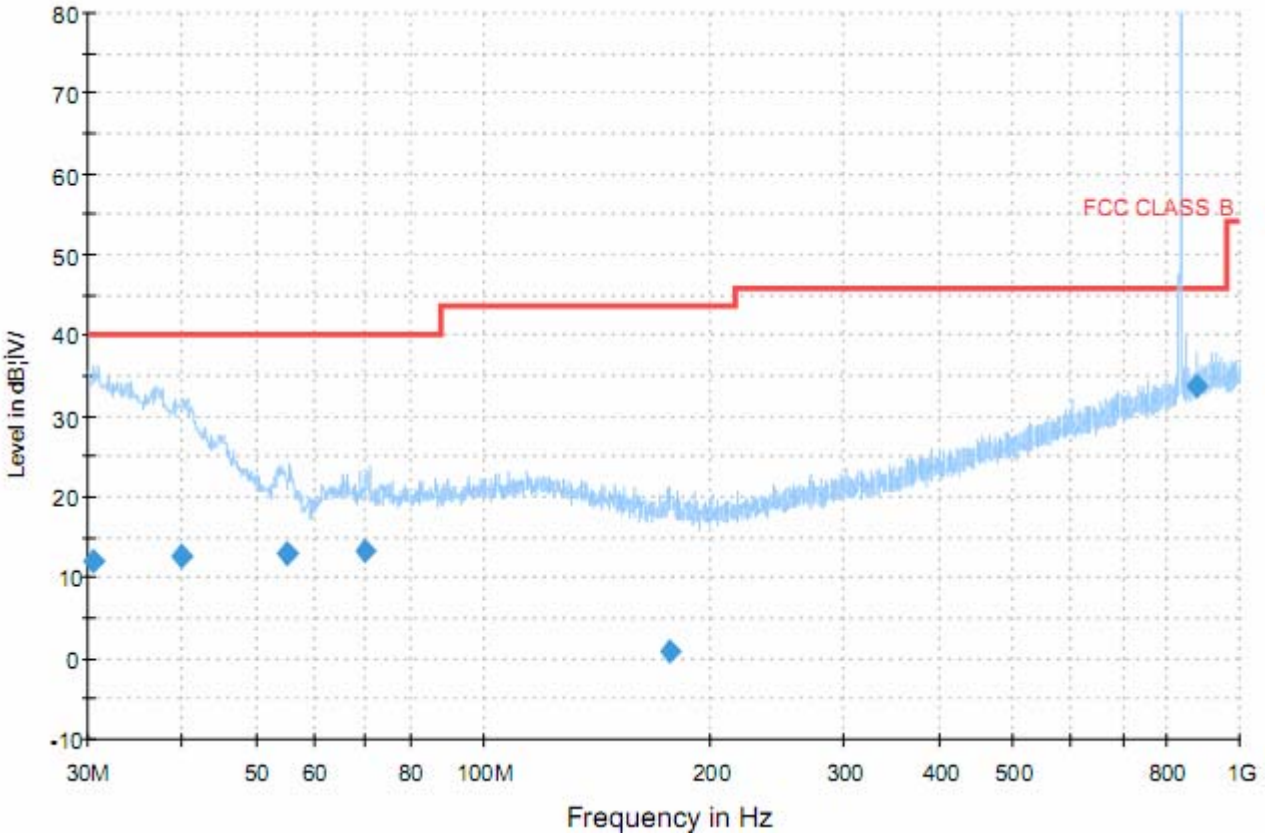
5.3.1.1.1 The test mode

The EUT configuration of the emission tests is EUT + Battery + Charger.

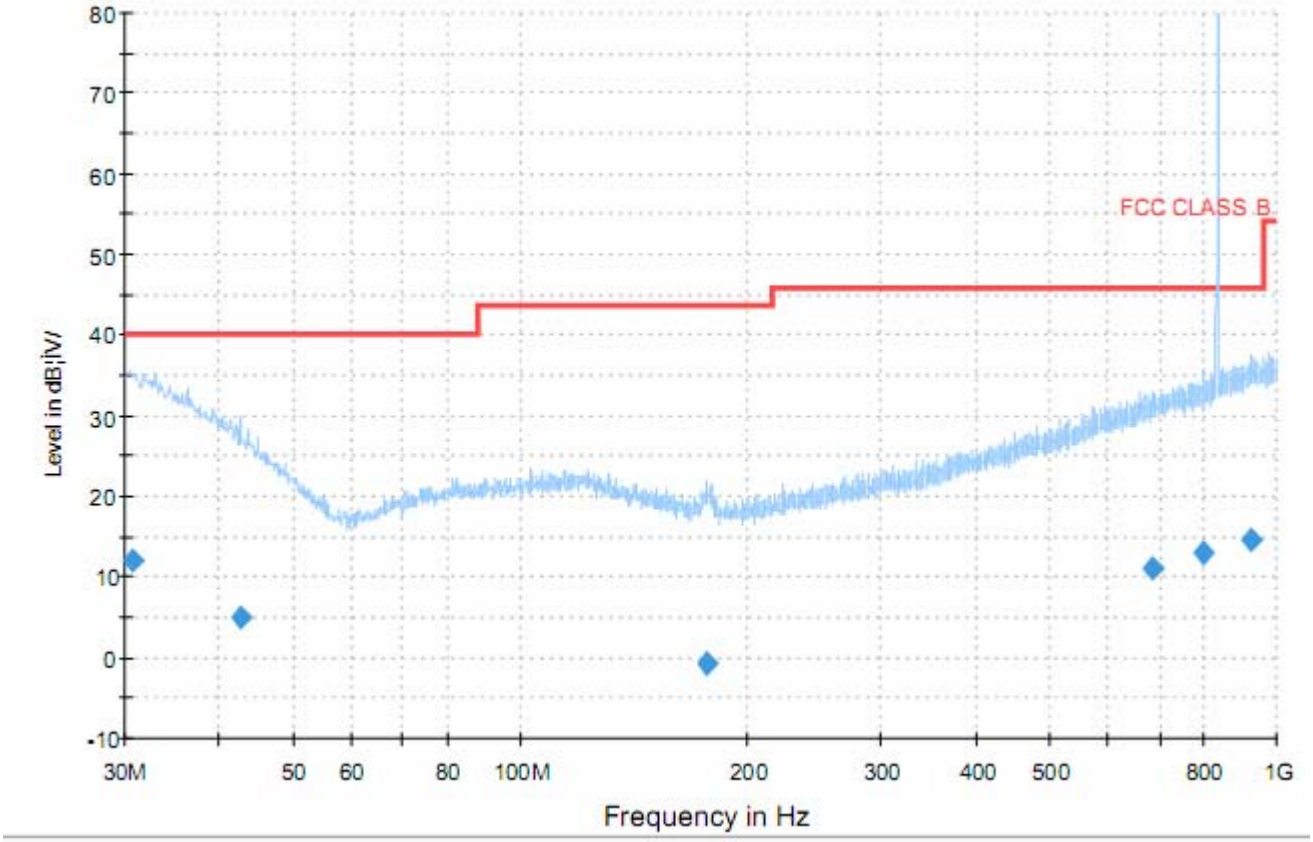
A. Test Plot:

Note: Following is the plots for emission measurement; please note that marked spikes with circle should be ignored because they are MS and SS carrier frequency.

No.	@Frequency (MHz)	Measured Emission Level (dBμV)			Limit (dBμV)	Verdict
		PK	QP	Polarity		
1	30.548522	35.0	11.9	V	40.0	PASS
2	39.929875	32.0	12.6	V	40.0	PASS
3	55.159000	23.3	13.0	V	40.0	PASS
4	69.657875	24.3	13.4	V	40.0	PASS
5	176.076750	17.5	0.8	V	44.0	PASS
6	876.0841250	33.5	33.7	V	46.0	PASS
7	30.812897	35.0	12.0	H	40.0	PASS
8	42.675625	27.5	4.9	H	40.0	PASS
9	177.076875	20.3	-0.7	H	44.0	PASS
10	687.754750	29.1	11.1	H	46.0	PASS
11	799.112000	28.8	13.0	H	46.0	PASS
12	924.855875	38.0	14.4	H	46.0	PASS



(Plot A: Test Antenna Vertical)



(Plot B: Test Antenna Horizontal)

**** END OF REPORT ****