



FCC Part15B Test Report

Product Name : HUAWEI Ascend G 302D; Ascend G 302D; TINO;
Tino; HSDPA/UMTS/GPRS/GSM/EDGE Mobile
Phone with Bluetooth

Model No. : HUAWEI U8812D-5, U8812D-5, HUAWEI U8812D,
U8812D

Applicant : Huawei Technologies Co., Ltd.

Address : Bantian, Longgang District, Shenzhen, 518129
Guangdong, P. R. China

Date of Receipt : 17/05/2012

Test Date : 17/05/2012~26/06/2012

Issued Date : 28/06/2012

Report No. : 125S046R-HP-US-P01V01

Report Version : V 1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report Certification

Issued Date: 28/06/2012

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Model No. : HUAWEI U8812D-5, U8812D-5, HUAWEI U8812D,
U8812D

EUT Voltage : DC 3.7V

Brand Name : HUAWEI

Applicable Standard : FCC Part 15 Subpart B: 2012
ANSI C63.4: 2009

Test Result : Complied

Performed Location : Suzhou EMC Laboratory
No.99 Hongye Rd., Suzhou Industrial Park Loufeng
Hi-Tech Development Zone., Suzhou, China
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098

Documented By : Alice Ni
(Engineering ADM: Alice Ni)

Reviewed By : Robin Wu
(Engineering Supervisor: Robin Wu)

Approved By : Marlin Chen
(Manager: Marlin Chen)

Laboratory Information

We, **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	:	BSMI, NCC, TAF
Germany	:	TUV Rheinland
Norway	:	Nemko, DNV
USA	:	FCC, NVLAP
Japan	:	VCCI
China	:	CNAS

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site :<http://www.quietek.com/tw/ctg/cts/accreditations.htm>
The address and introduction of Quietek Corporation's laboratories can be founded in our Web site :
<http://www.quietek.com/>

If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yongxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

Linkou Testing Laboratory :

No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

Suzhou Testing Laboratory :

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China
TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com

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1. General Information

1.1. EUT Description

Product Name	HUAWEI Ascend G 302D; Ascend G 302D; TINO; Tino; HSDPA/UMTS/GPRS/GSM/EDGE Mobile Phone with Bluetooth
Model No.	HUAWEI U8812D-5, U8812D-5, HUAWEI U8812D, U8812D
Hardware Version	A52_MB_V3.0
Software Version	U8812DV100R001C41B100SP04
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
GPS	
Operate Frequency	1575.42MHz
Type of modulation	BPSK
2G	
Support Band	GSM850/GSM900/DCS1800/PCS1900
GPRS Type	Class B
GPRS Class	Class 12
Uplink	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz
Downlink	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	Rel-6
Type of modulation	GMSK for GSM/GPRS; 8PSK for EDGE
Antenna Gain	GSM 850: -2.3dBi PCS1900: -0.5dBi
3G	
Support Band	WCDMA Band I/WCDMA Band II/WCDMA Band V/ WCDMA Band VIII
Uplink	WCDMA Band V: 824~849MHz WCDMA Band II: 1850~1910MHz
Downlink	WCDMA Band V: 869~894MHz WCDMA Band II: 1930~1990MHz
Release Version	UMTS FDD: Rel-6
Type of modulation	QPSK
Antenna Gain	WCDMA Band V: -2.3dBi

	WCDMA Band II: -0.5dBi
Bluetooth	
Bluetooth Frequency	2402~2480MHz
Bluetooth Version	V2.1 + EDR
Type of modulation	FHSS
Data Rate	1Mbps(GFSK), 2Mbps(Pi/4 DQPSK), 3Mbps (8DPSK)
Antenna Gain	-4.0dBi
Wi-Fi	
Hotspots Function	YES
Wi-Fi Frequency	802.11b/g/n(20MHz): 2412 ~ 2462 MHz 802.11n(40MHz): 2422 ~ 2452 MHz
Type of modulation	802.11b: DSSS; 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
	802.11n: up to 150 Mbps
Antenna Gain	-4.0dBi
Components	
Headset Model Number #1	HUAWEI/ 125G#+3261# 3.5MM-2
Headset Model Number #2	HUAWEI/ MEMD1532A761A00
Battery #1	Brand Name: HUAWEI M/N: HB5N1 Rated Voltage and Capacitance: 3.7V/1350mAh S/N: BAAC227F98000344
Battery #2	Brand Name: HUAWEI M/N: HB5N1H Rated Voltage and Capacitance: 3.7V/1500mAh S/N: BAAC424F13800165
Battery #3	Brand Name: HUAWEI M/N: HB5N1 Rated Voltage and Capacitance: 3.7V/1350mAh S/N: GAGC219Z98008748
Adapter #1	Brand Name: HUAWEI M/N: HW-050100U1W Input: 100-240V~50/60Hz 0.2A MAX Output: 5Vdc, 1A S/N: TPAB61442672
Adapter #2	Brand Name: HUAWEI

	M/N: HW-050100U1W Input: 100-240V~50/60Hz 0.2A MAX Output: 5Vdc, 1A S/N: HKAB51621440
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Note 1: They are only for different marketing requirement.

Note 2: Headset #1 and #2 have the same circuit.

1.2. Mode of Operation

QuieTek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

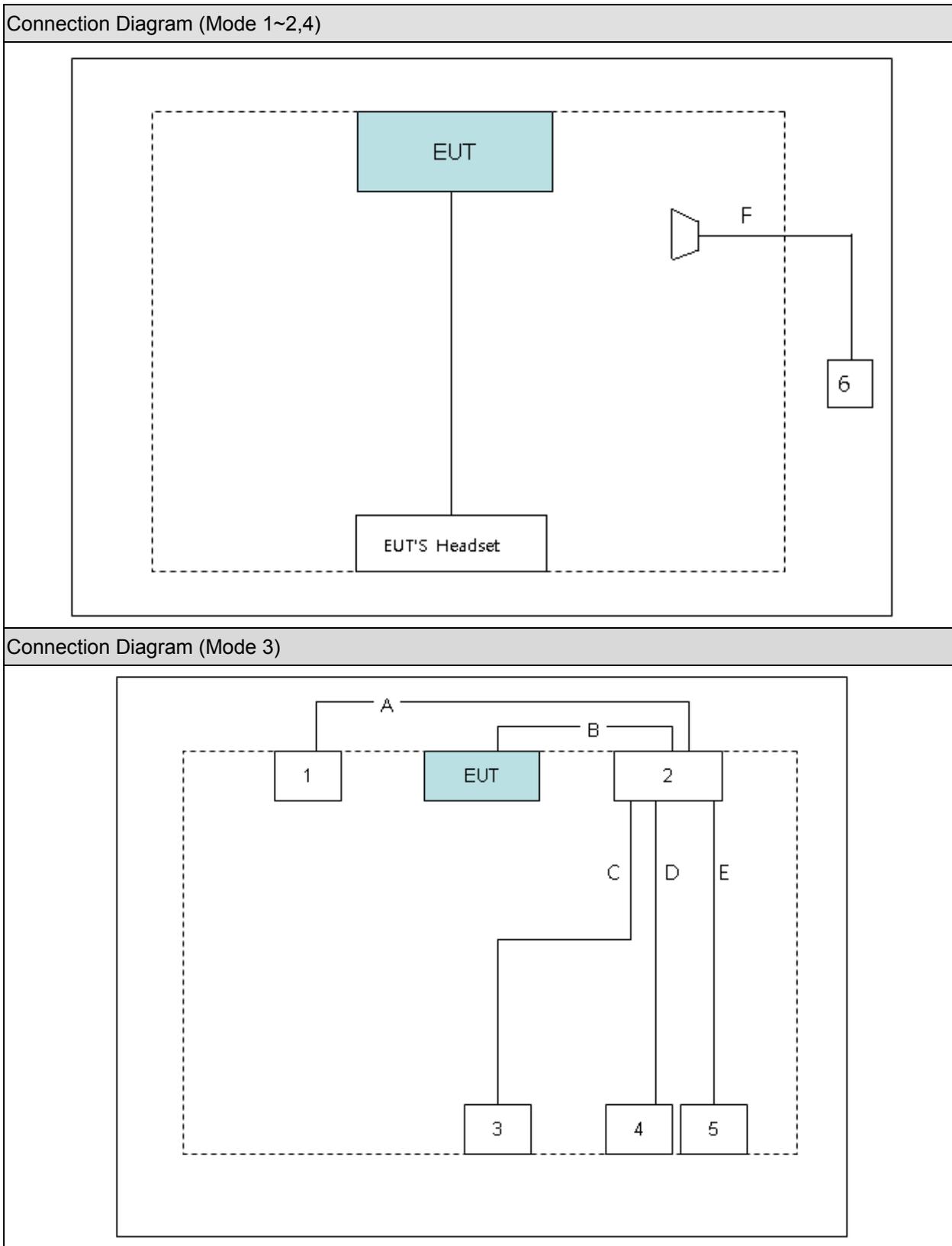
Pre Test Mode
Mode 1: Charging + Camera On
Mode 2: FM
Mode 3: USB Copy
Mode 4: GPS Receive

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 LCD Monitor	Lenovo	L2361PWA	3M03896A0520853	Non-Shielded, 1.8m
2 PC	DELL	DCMF	11DMF2X	Non-Shielded, 1.8m
3 Microphone& Earphone	SOMIC	V85	N/A	Power by PC
4 iPod	Apple	A1199	7J71085BVQ5	Power by PC
5 USB Mouse	DELL	MOC5UO	10D00JL	Power by PC
6 Signal Generator	Agilent	E4438C	MY49070163	N/A

1.4. Configuration of Tested System



Signal Cable Type		Signal cable Description
A	VGA Cable	Shielded, 1.5m
B	USB Cable	Shielded, 1.2m
C	USB Cable	Shielded, 1.0m
D	Earphone & Microphone Cable	No-Shielded, 2.1m
E	USB Cable	Shielded, 1.8m
F	Coaxial Cable	Shielded, >5m

1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above.
2	Turn on the power of equipment.
3	(1) Make the EUT work under the "Charging+Camera on" Mode. (2) Make the EUT work under the "FM" Mode. (3) Open the software "WINTHRAX", and then transmit data with notebook. (4) Making EUT receive signals from SG continuously.
4	Start Test.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

Emission			
Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart B: 2012 Class B ANSI C63.4: 2009	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2012 Class B ANSI C63.4: 2009	Yes	No

2.2. List of Test Equipment

Conducted Emission / TR-1

Instrument	Manufacturer	Type No.	Serial No	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100906	2013/01/13
Two-Line V-Network	R&S	ENV216	100043	2013/04/18
Two-Line V-Network	R&S	ENV216	100044	2012/09/07
Impedance Stabilization Network	Teseq GmbH	ISN T800	30306	2013/02/24
Impedance Stabilization Network	Teseq GmbH	ISN T8-Cat6	29680	2013/02/24
Impedance Stabilization Network	Teseq GmbH	ISN ST08	31281	2013/02/24
Current Probe	R&S	EZ-17	100255	2013/04/18
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2013/03/02
50ohm Termination	SHX	TF2	07081401	2012/09/22
50ohm Termination	SHX	TF2	07081402	2012/09/22
50ohm Termination	SHX	TF2	07081403	2012/09/22
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2013/01/10

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2013/04/18
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2012/10/18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2013/03/02
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2013/01/10

Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2013/04/18
Preamplifier	Quietek	AP-180C	CHM-0602013	2013/05/04
Preamplifier	Quietek	AP-040G	CHM-0906001	2013/05/04
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2012/10/18
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	499	2014/06/08
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2013/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2013/03/03
Lowpass Filter	Wainwright	WLKS4500-9SS	SN2	2013/03/03

2.3. Measurement Uncertainty

Conducted Emission
The maximum measurement uncertainty is evaluated as $\pm 2.26\text{dB}$.
Radiated Emission
The maximum measurement uncertainty is evaluated as $\pm 3.19\text{dB}$.

2.4. Test Environment

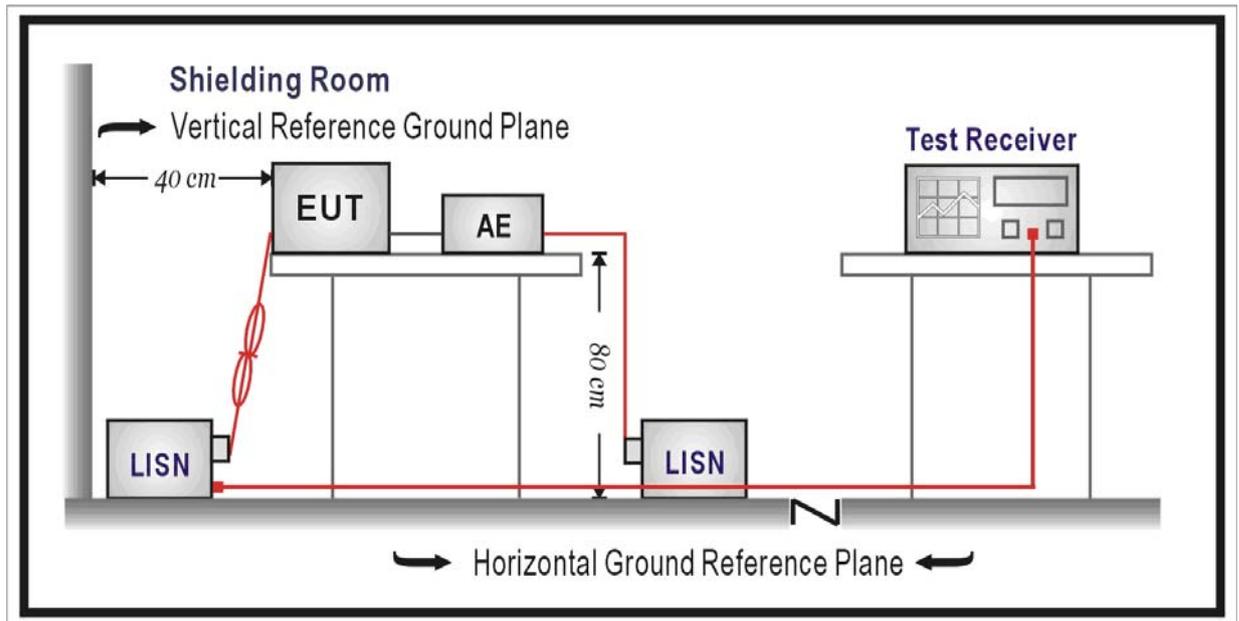
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

3.1. Test Specification

According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4

3.2. Test Setup



3.3. Limit

Limits for Conducted Emission of Class B ITE		
Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

NOTE: Decreases with the logarithm of the frequency.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50Ω / 50μH coupling impedance for the

measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\Omega / 50\mu\text{H}$ coupling impedance with 50Ω termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

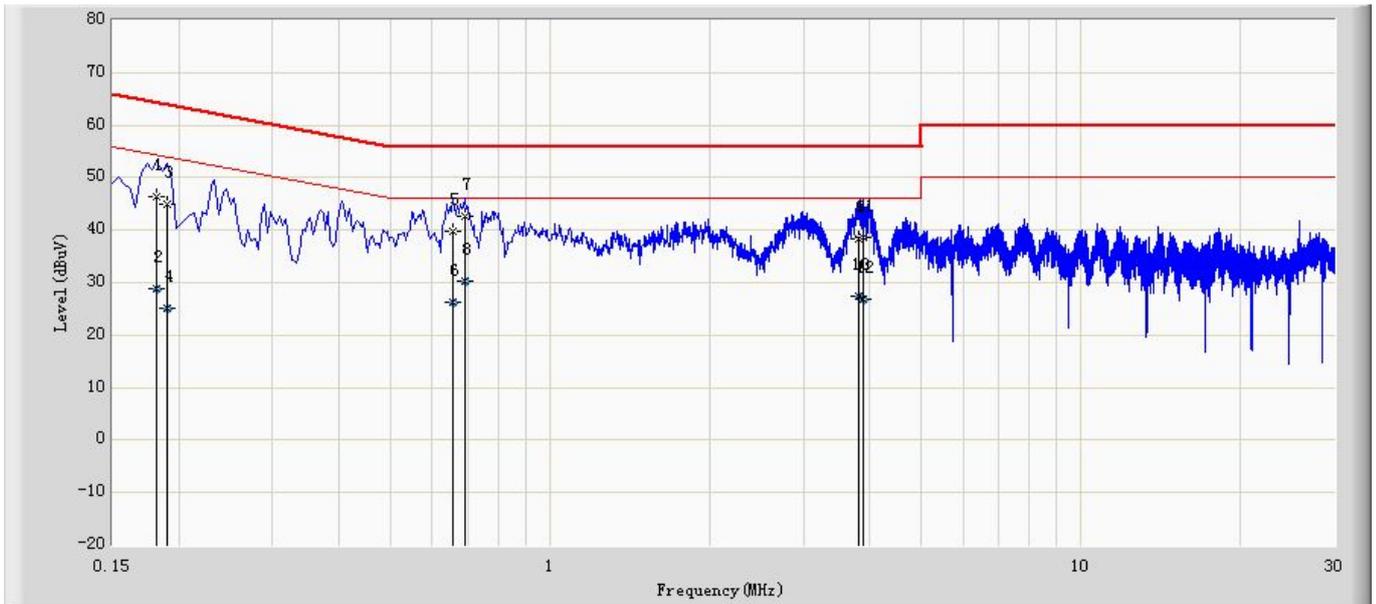
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

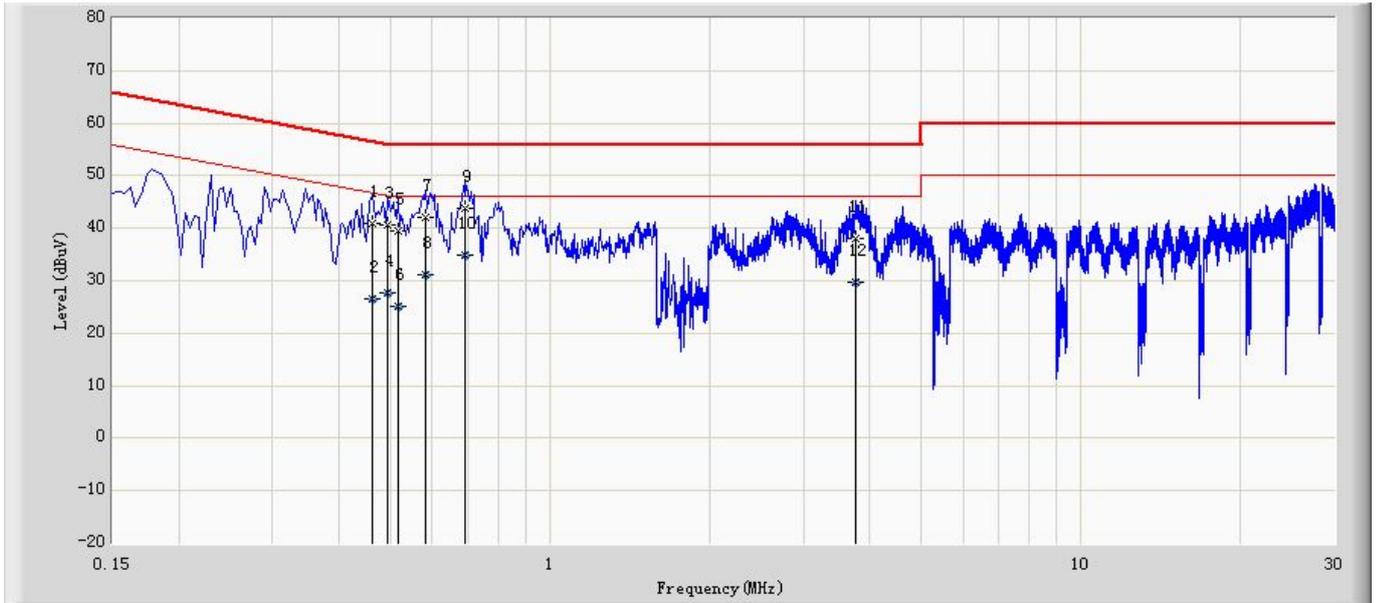
3.6. Test Result

Engineer: Jack	
Site: TR1	Time: 2012/06/20 - 12:35
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #1	



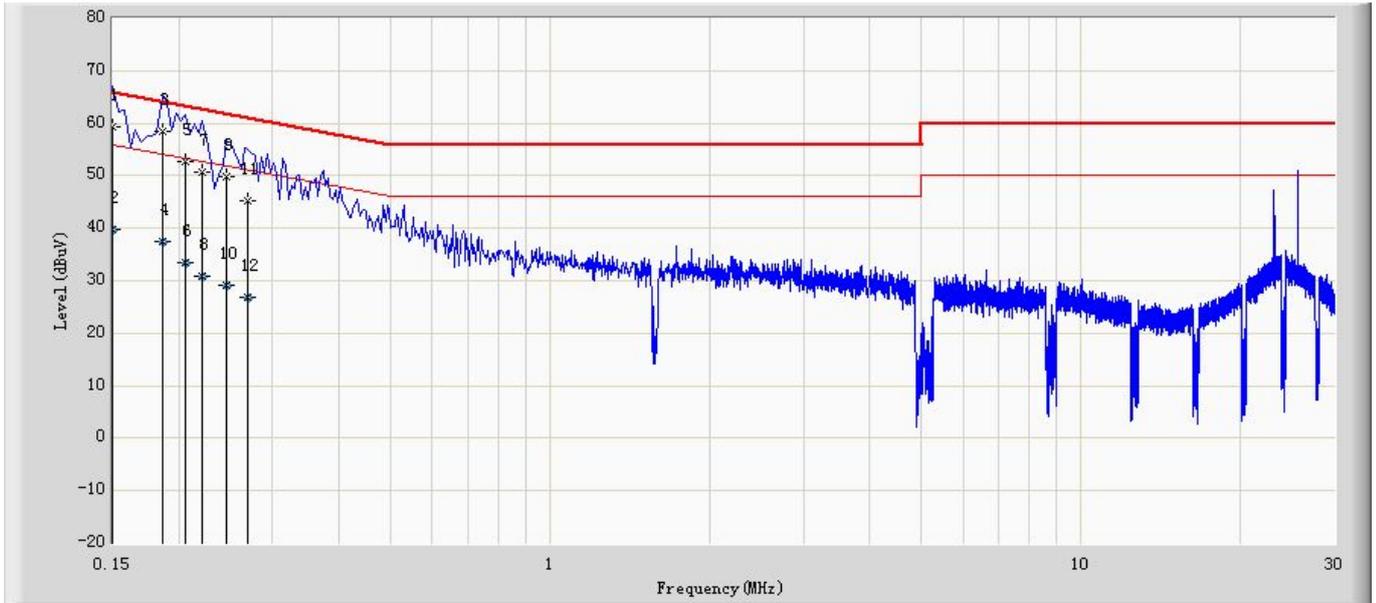
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.182	46.477	36.621	-17.917	64.394	9.857	QP
2		0.182	28.913	19.057	-25.481	54.394	9.857	AV
3		0.190	44.936	35.078	-19.100	64.037	9.858	QP
4		0.190	25.241	15.382	-28.796	54.037	9.858	AV
5		0.658	39.730	29.876	-16.270	56.000	9.855	QP
6		0.658	26.123	16.268	-19.877	46.000	9.855	AV
7	*	0.690	42.685	32.842	-13.315	56.000	9.843	QP
8		0.690	30.401	20.558	-15.599	46.000	9.843	AV
9		3.810	38.289	28.453	-17.711	56.000	9.836	QP
10		3.810	27.322	17.486	-18.678	46.000	9.836	AV
11		3.886	38.717	28.881	-17.283	56.000	9.836	QP
12		3.886	26.916	17.080	-19.084	46.000	9.836	AV

Engineer: Jack	
Site: TR1	Time: 2012/06/20 - 12:39
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #1	



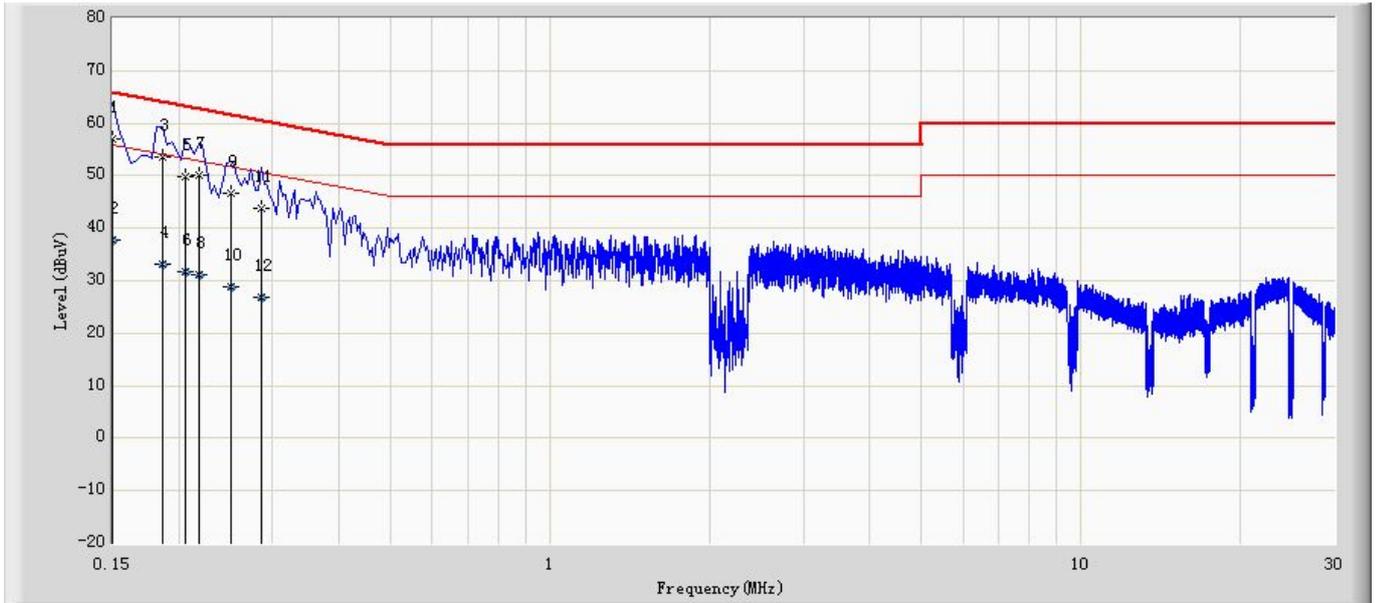
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.462	40.838	30.797	-15.819	56.657	10.041	QP
2		0.462	26.671	16.631	-19.985	46.657	10.041	AV
3		0.494	40.763	30.711	-15.338	56.100	10.052	QP
4		0.494	27.593	17.541	-18.507	46.100	10.052	AV
5		0.518	39.604	29.560	-16.396	56.000	10.043	QP
6		0.518	25.050	15.007	-20.950	46.000	10.043	AV
7		0.582	42.140	32.154	-13.860	56.000	9.986	QP
8		0.582	31.125	21.139	-14.875	46.000	9.986	AV
9		0.690	43.768	33.879	-12.232	56.000	9.889	QP
10	*	0.690	34.922	25.033	-11.078	46.000	9.889	AV
11		3.766	38.022	27.978	-17.978	56.000	10.043	QP
12		3.766	29.820	19.776	-16.180	46.000	10.043	AV

Engineer: Jack	
Site: TR1	Time: 2012/06/20 - 12:41
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #2	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.150	59.360	49.385	-6.640	66.000	9.975	QP
2		0.150	39.905	29.930	-16.095	56.000	9.975	AV
3	*	0.186	58.483	48.549	-5.730	64.213	9.934	QP
4		0.186	37.579	27.645	-16.635	54.213	9.934	AV
5		0.206	52.716	42.799	-10.649	63.365	9.917	QP
6		0.206	33.528	23.611	-19.837	53.365	9.917	AV
7		0.222	50.643	40.732	-12.101	62.744	9.911	QP
8		0.222	30.938	21.027	-21.806	52.744	9.911	AV
9		0.246	49.894	39.972	-11.997	61.891	9.923	QP
10		0.246	29.150	19.227	-22.741	51.891	9.923	AV
11		0.270	45.289	35.355	-15.829	61.118	9.935	QP
12		0.270	26.700	16.766	-24.418	51.118	9.935	AV

Engineer: Jack	
Site: TR1	Time: 2012/06/20 - 12:45
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #2	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1	*	0.150	57.074	47.226	-8.926	66.000	9.848	QP
2		0.150	37.759	27.911	-18.241	56.000	9.848	AV
3		0.186	53.546	43.688	-10.668	64.213	9.857	QP
4		0.186	33.256	23.398	-20.958	54.213	9.857	AV
5		0.206	49.895	40.035	-13.470	63.365	9.861	QP
6		0.206	31.647	21.786	-21.718	53.365	9.861	AV
7		0.218	50.052	40.189	-12.843	62.895	9.863	QP
8		0.218	31.274	21.411	-21.621	52.895	9.863	AV
9		0.250	46.702	36.835	-15.055	61.757	9.867	QP
10		0.250	28.990	19.123	-22.767	51.757	9.867	AV
11		0.286	43.843	33.971	-16.797	60.640	9.872	QP
12		0.286	26.752	16.880	-23.888	50.640	9.872	AV

3.7. Test Photograph

Test Mode: Mode 1

Description: Conducted Emission Test Setup



Test Mode: Mode 3

Description: Front View of Conducted Emission Test Setup



Description: Side View of Conducted Emission Test Setup



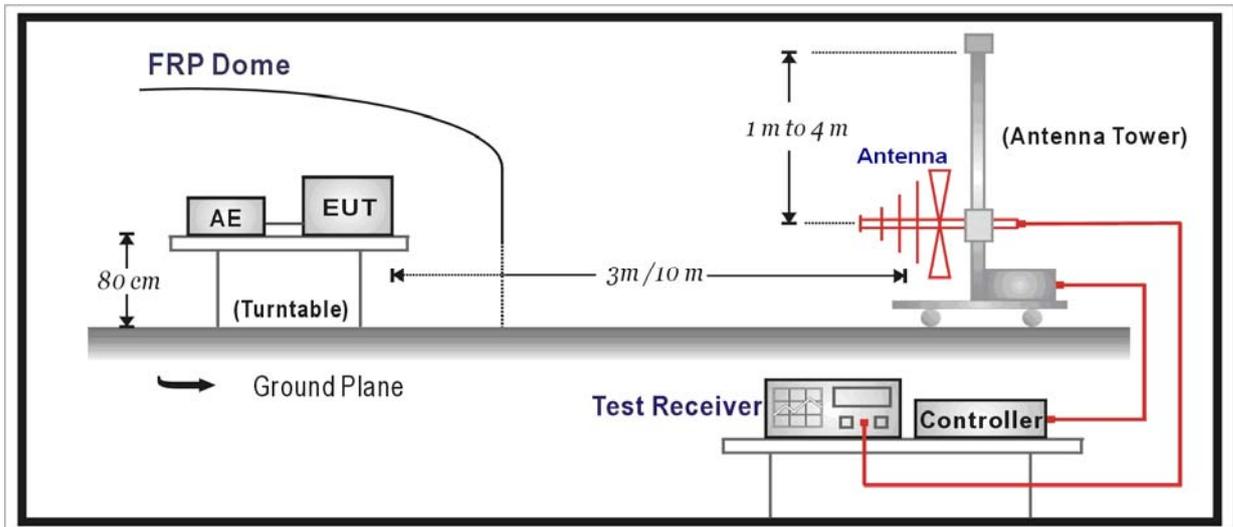
4. Radiated Emission

4.1. Test Specification

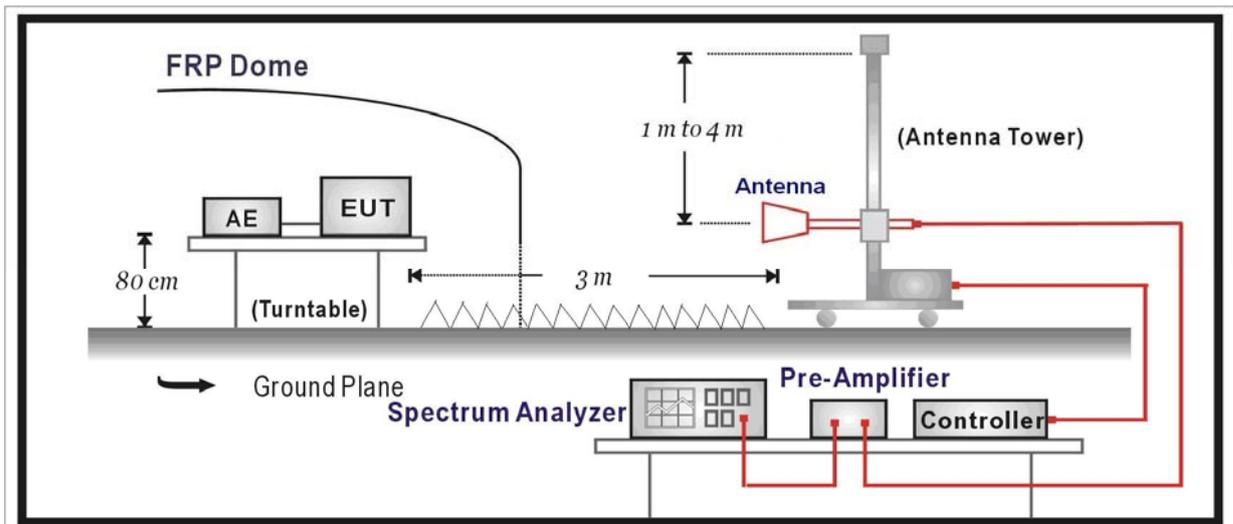
According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4

4.2. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart B Paragraph 15.109		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000

500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000 MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000 MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 3 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and above 1GHz is 1MHz.

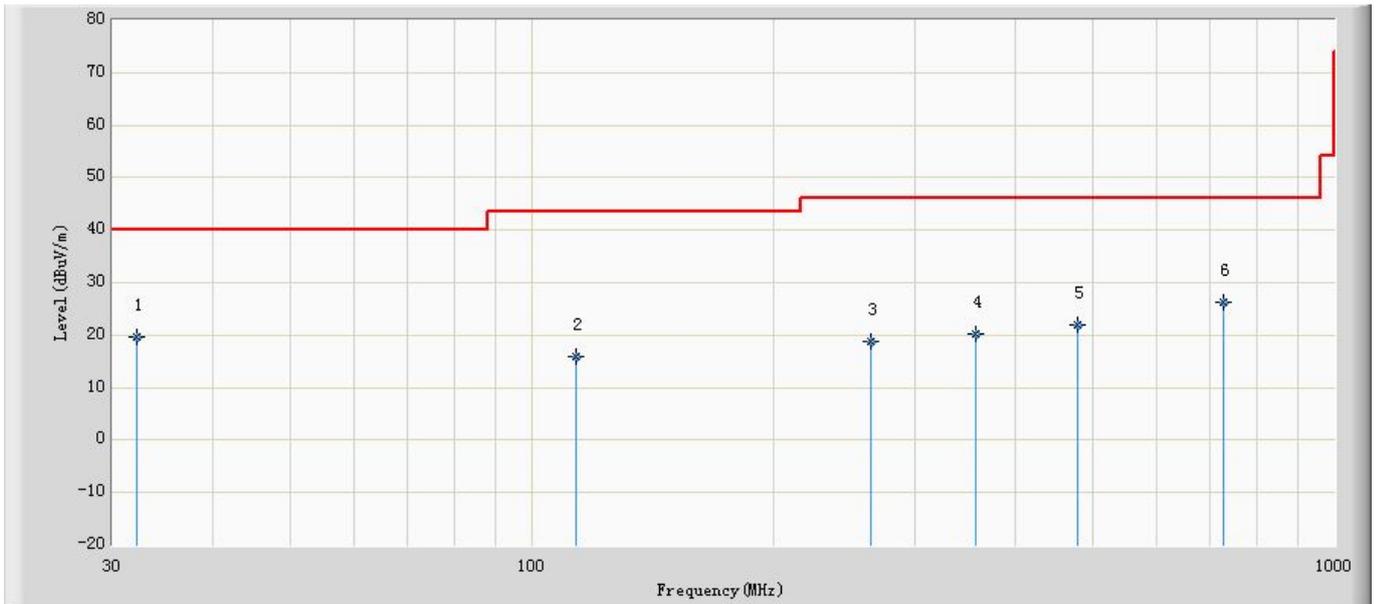
Note: When measurement above 1GHz, the horn antenna will bend down a little (as horn antenna have the narrow beamwidth) in order to find the maximum emission of EUT.

4.5. Deviation from Test Standard

No deviation.

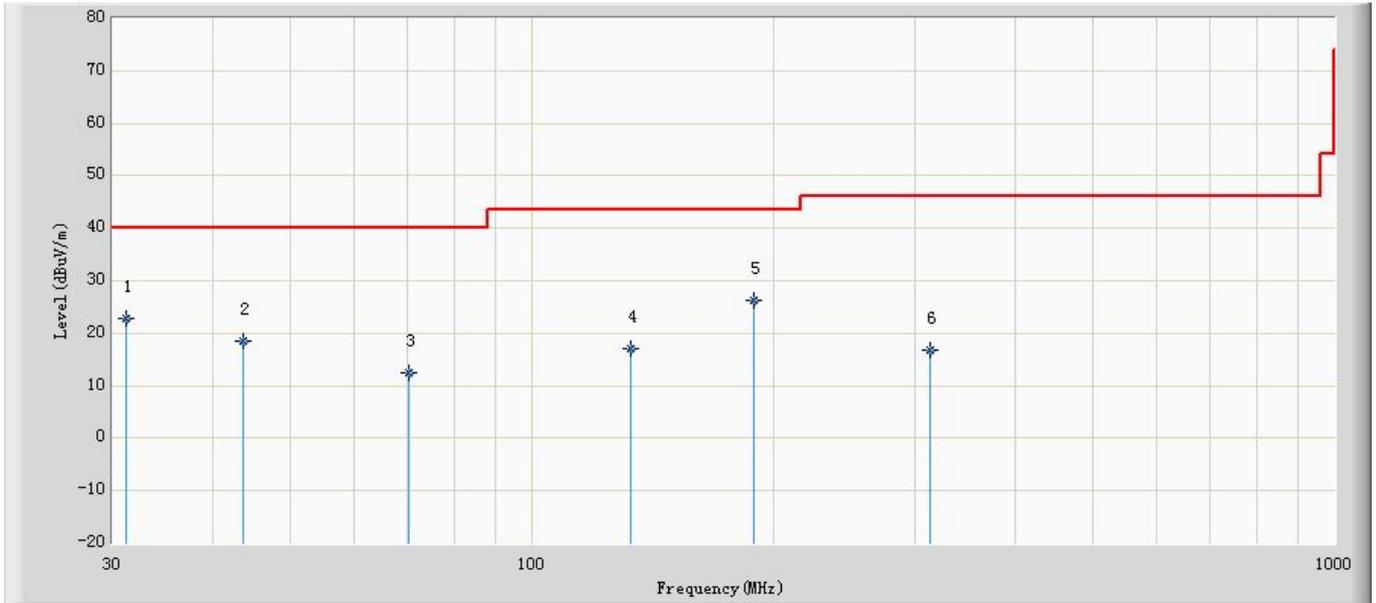
4.6. Test Result

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #1	



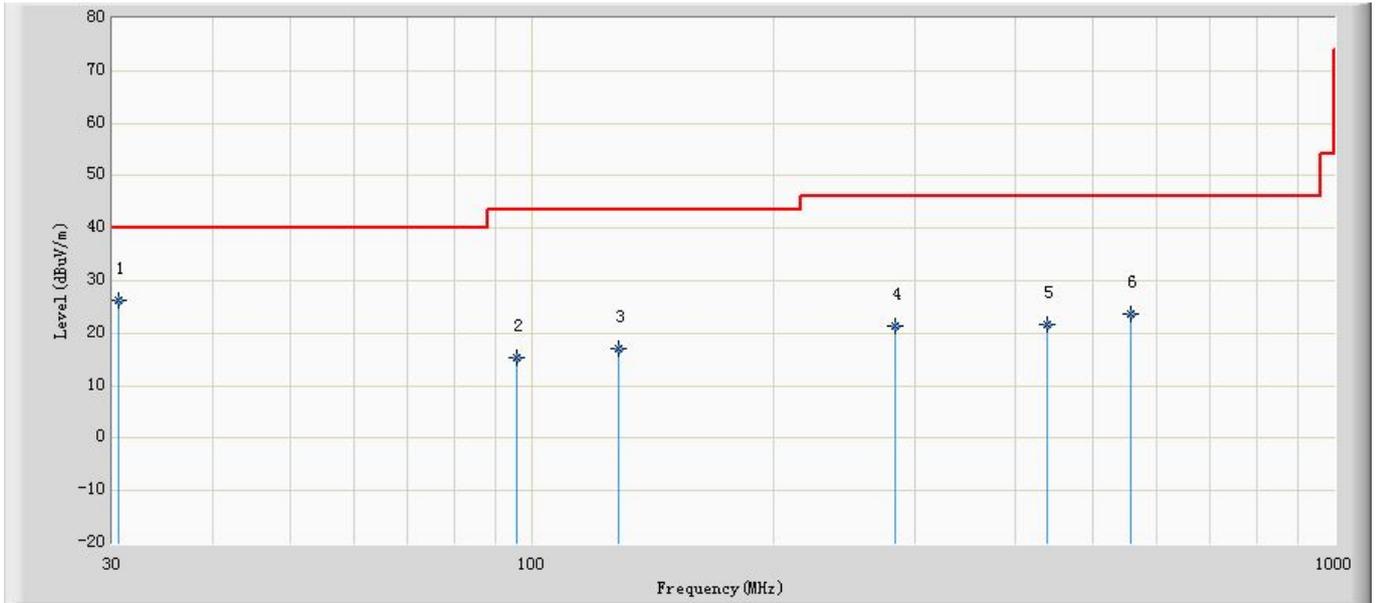
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		32.212	19.574	-3.228	-20.426	40.000	22.802	QP
2		113.413	16.037	-2.447	-27.463	43.500	18.484	QP
3		264.779	18.744	-1.246	-27.256	46.000	19.990	QP
4		357.693	20.224	-2.014	-25.776	46.000	22.239	QP
5		477.475	21.997	-3.114	-24.003	46.000	25.111	QP
6	*	728.514	26.151	-2.111	-19.849	46.000	28.263	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #1	



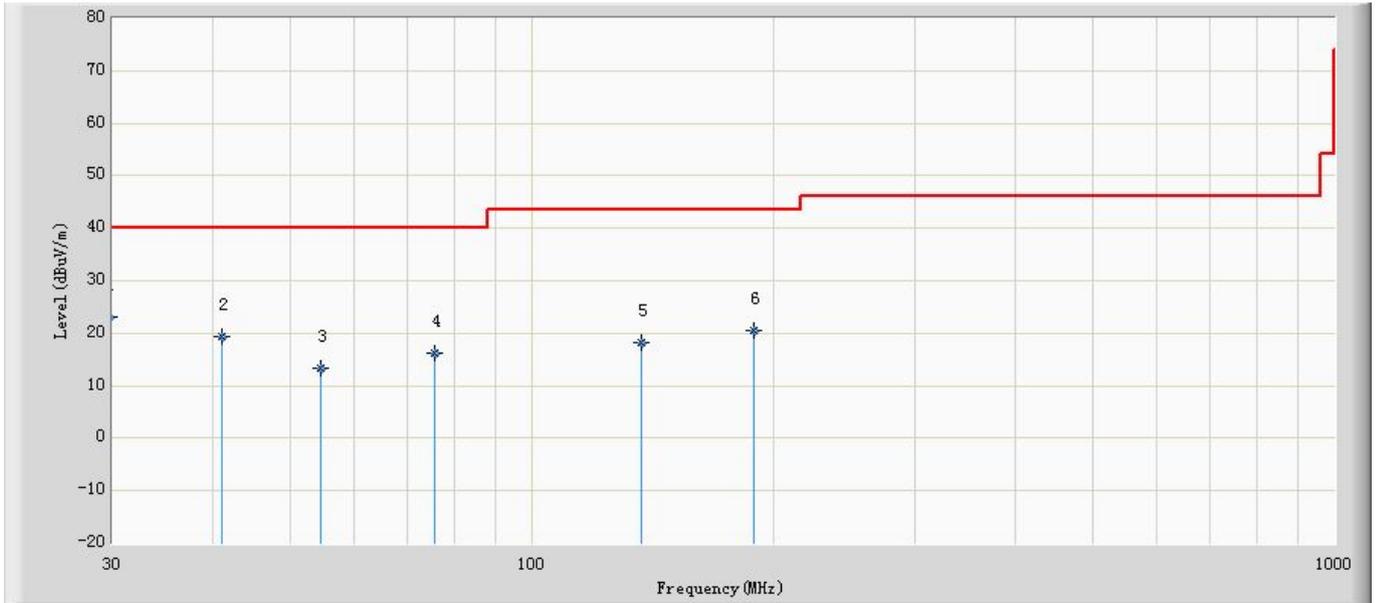
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	31.244	22.880	-0.551	-17.120	40.000	23.430	QP
2		43.617	18.421	1.725	-21.579	40.000	16.696	QP
3		70.200	12.385	0.553	-27.615	40.000	11.831	QP
4		132.688	17.074	-1.243	-26.426	43.500	18.317	QP
5		188.736	26.338	10.714	-17.162	43.500	15.624	QP
6		313.531	16.793	-4.171	-29.207	46.000	20.963	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #2	



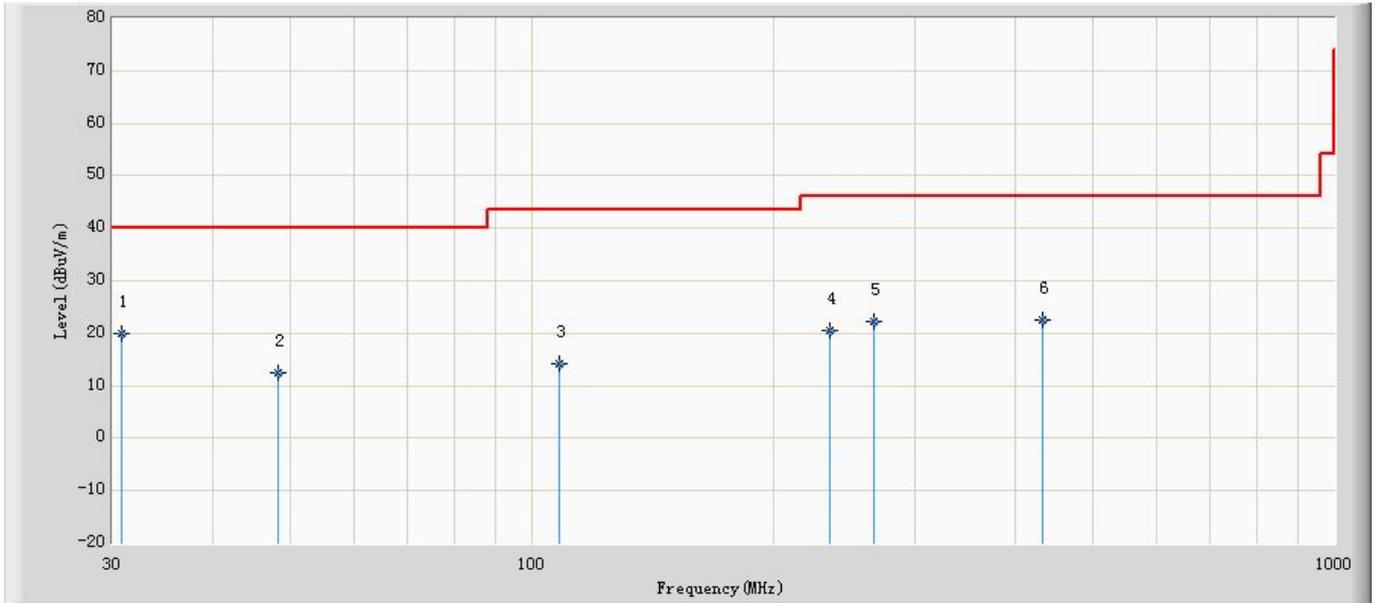
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	30.498	26.386	2.441	-13.614	40.000	23.945	QP
2		95.887	15.287	-1.348	-28.213	43.500	16.634	QP
3		127.952	17.212	-1.336	-26.288	43.500	18.548	QP
4		283.746	21.239	1.225	-24.761	46.000	20.014	QP
5		437.893	21.625	-2.552	-24.375	46.000	24.177	QP
6		557.112	23.618	-3.045	-22.382	46.000	26.663	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On With Adapter #2	



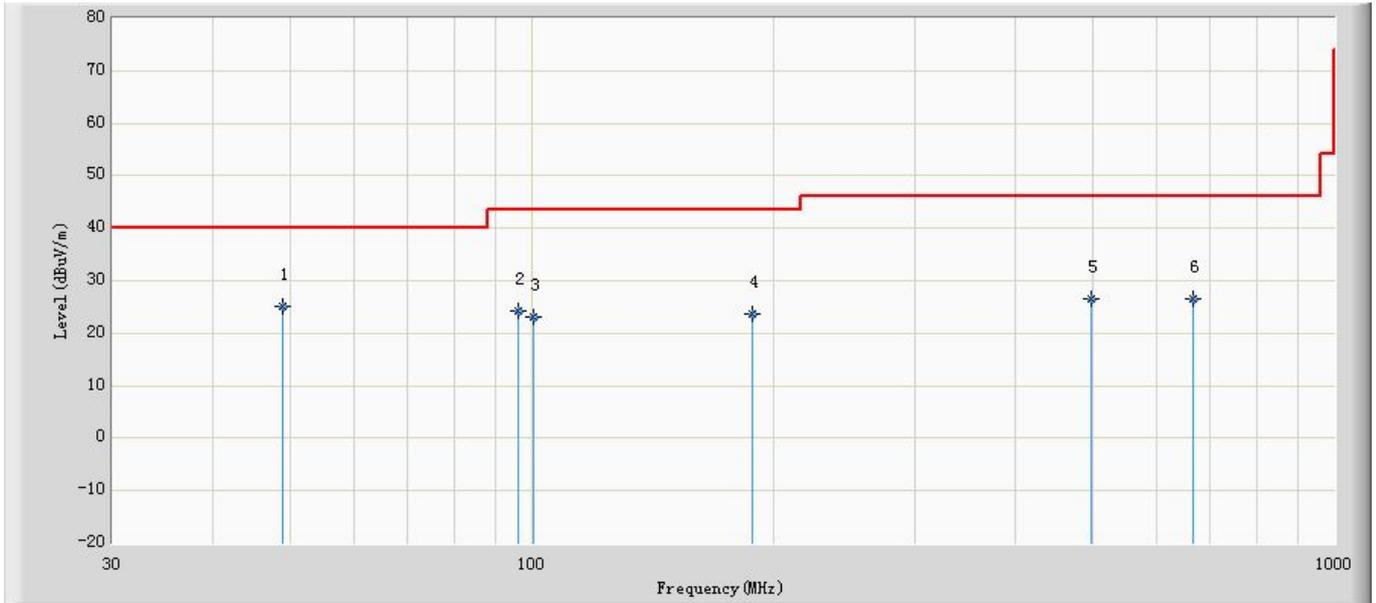
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		29.795	23.128	-1.161	NaN	NaN	24.289	QP
2	*	41.000	19.309	1.259	-20.691	40.000	18.050	QP
3		54.552	13.190	0.248	-26.810	40.000	12.943	QP
4		75.668	16.098	3.588	-23.902	40.000	12.509	QP
5		136.998	18.217	0.212	-25.283	43.500	18.004	QP
6		188.669	20.510	4.889	-22.990	43.500	15.621	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 2: FM	



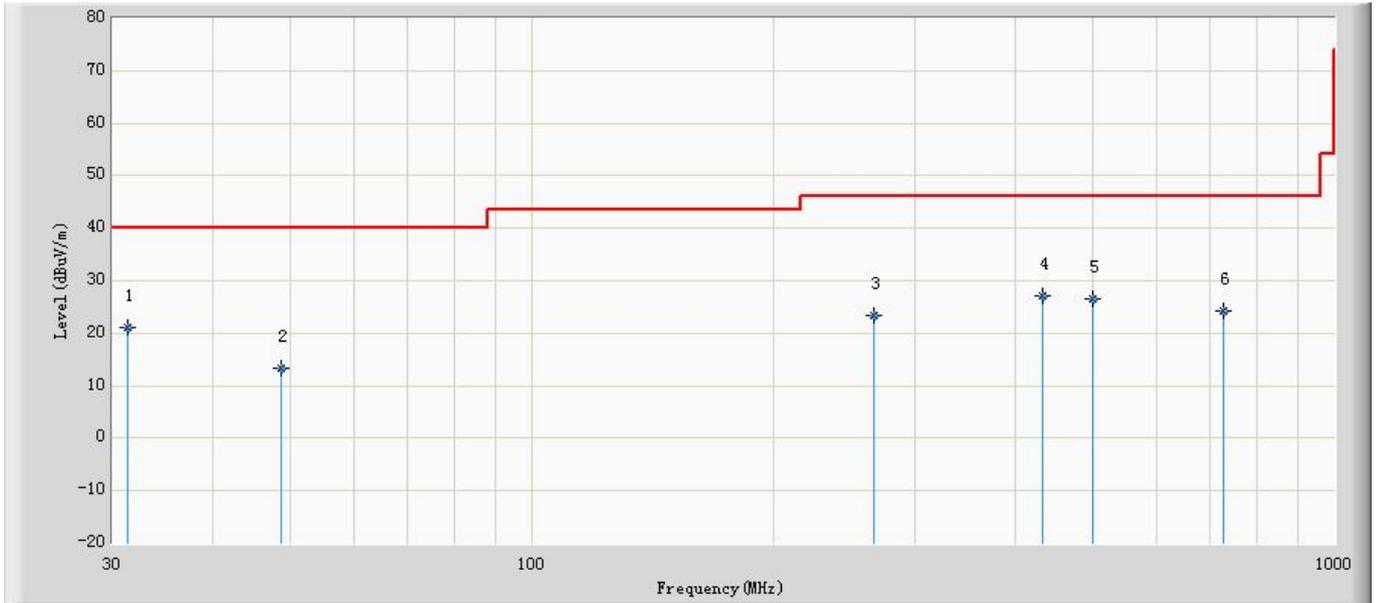
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	30.776	19.856	-3.897	-20.144	40.000	23.753	QP
2		48.221	12.412	-2.368	-27.588	40.000	14.780	QP
3		108.223	14.308	-3.987	-29.192	43.500	18.295	QP
4		235.189	20.501	2.889	-25.499	46.000	17.612	QP
5		266.897	22.159	2.226	-23.841	46.000	19.932	QP
6		432.114	22.642	-1.559	-23.358	46.000	24.201	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 2: FM	



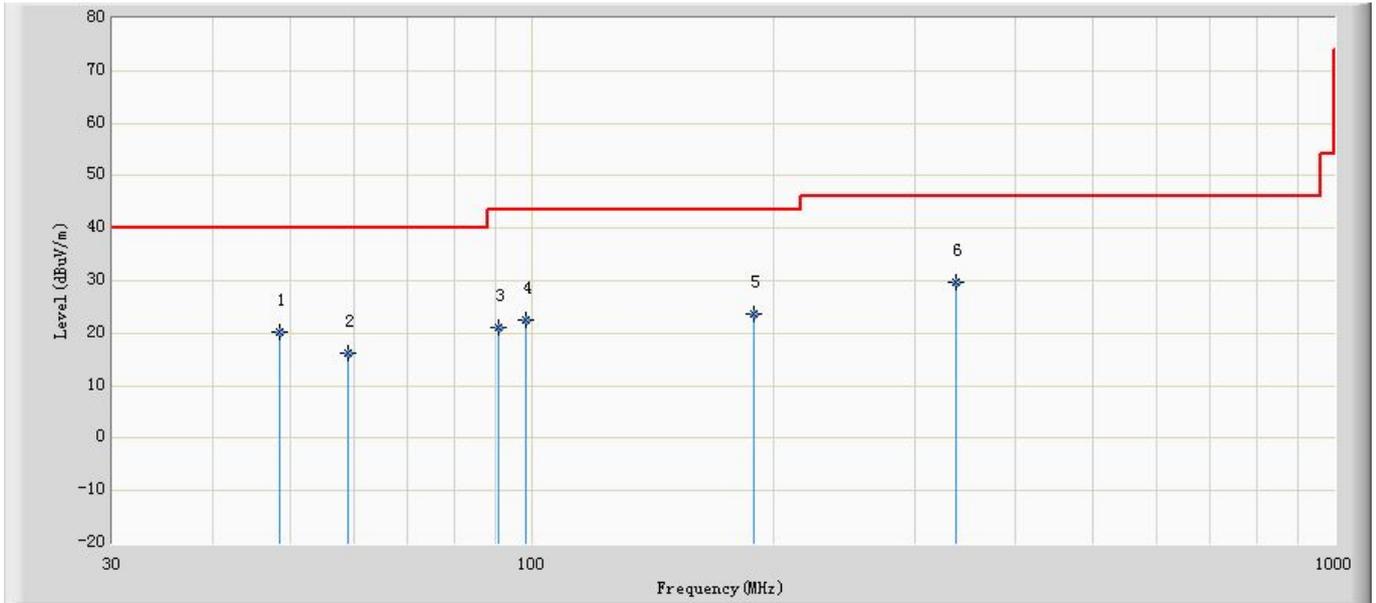
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	48.998	25.242	10.778	-14.758	40.000	14.464	QP
2		95.987	24.200	7.553	-19.300	43.500	16.647	QP
3		100.389	23.076	5.715	-20.424	43.500	17.361	QP
4		187.942	23.601	8.014	-19.899	43.500	15.587	QP
5		498.012	26.545	1.247	-19.455	46.000	25.298	QP
6		667.112	26.486	-0.893	-19.514	46.000	27.379	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 3: USB Copy	



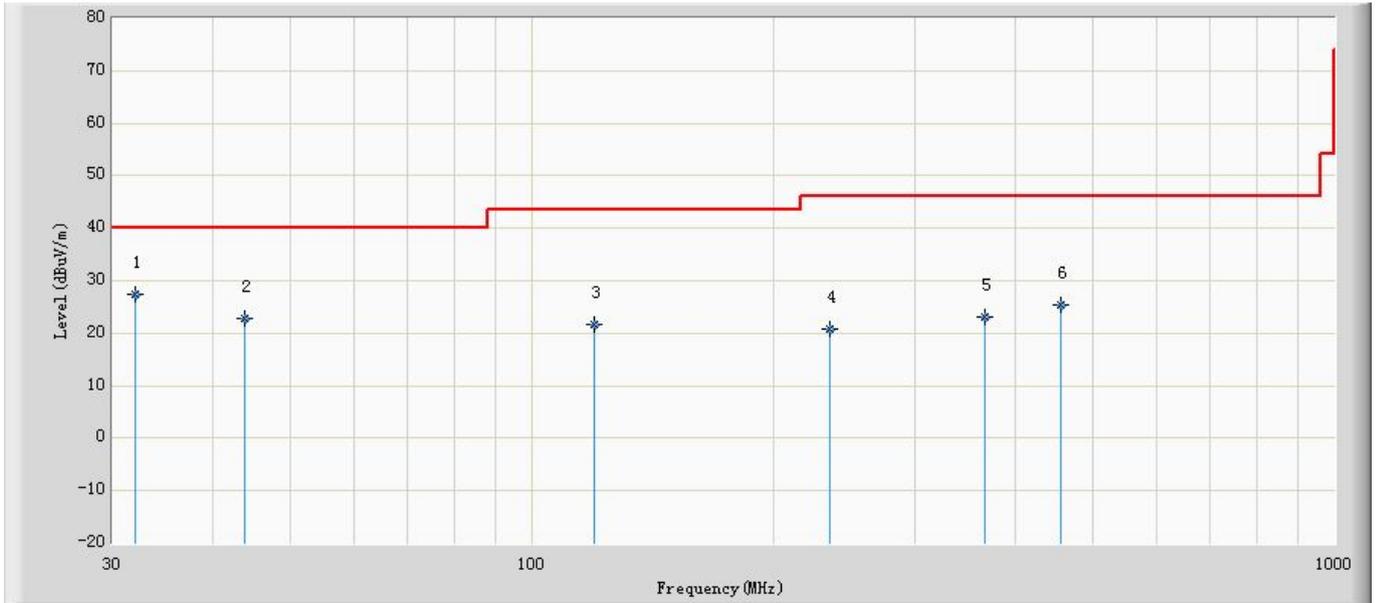
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	31.364	21.204	-2.144	-18.796	40.000	23.348	QP
2		48.698	13.341	-1.247	-26.659	40.000	14.588	QP
3		266.987	23.371	3.441	-22.629	46.000	19.931	QP
4		432.064	27.195	2.995	-18.805	46.000	24.200	QP
5		499.821	26.553	1.236	-19.447	46.000	25.317	QP
6		725.889	24.275	-3.871	-21.725	46.000	28.145	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:39
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 3: USB Copy	



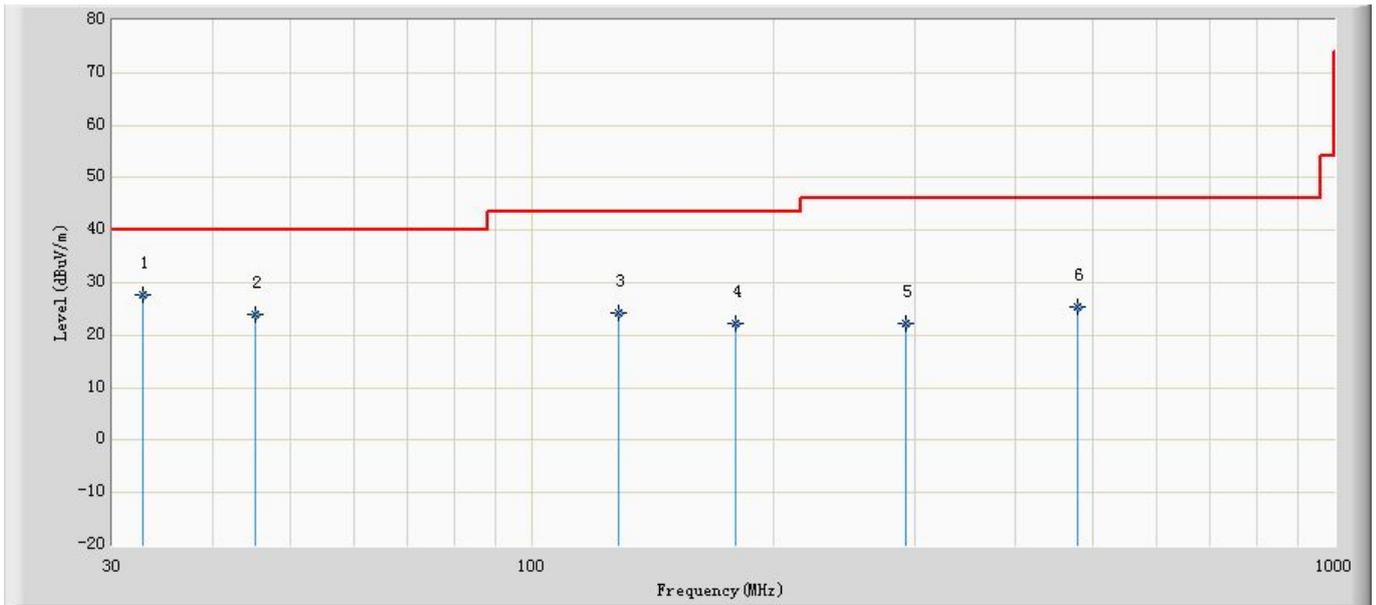
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		48.498	20.088	5.417	-19.912	40.000	14.671	QP
2		58.987	16.116	3.998	-23.884	40.000	12.118	QP
3		90.998	21.222	5.478	-22.278	43.500	15.744	QP
4		98.324	22.451	5.441	-21.049	43.500	17.009	QP
5		188.779	23.738	8.112	-19.762	43.500	15.626	QP
6	*	337.780	29.597	7.990	-16.403	46.000	21.607	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:42
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 4: GPS Receive	



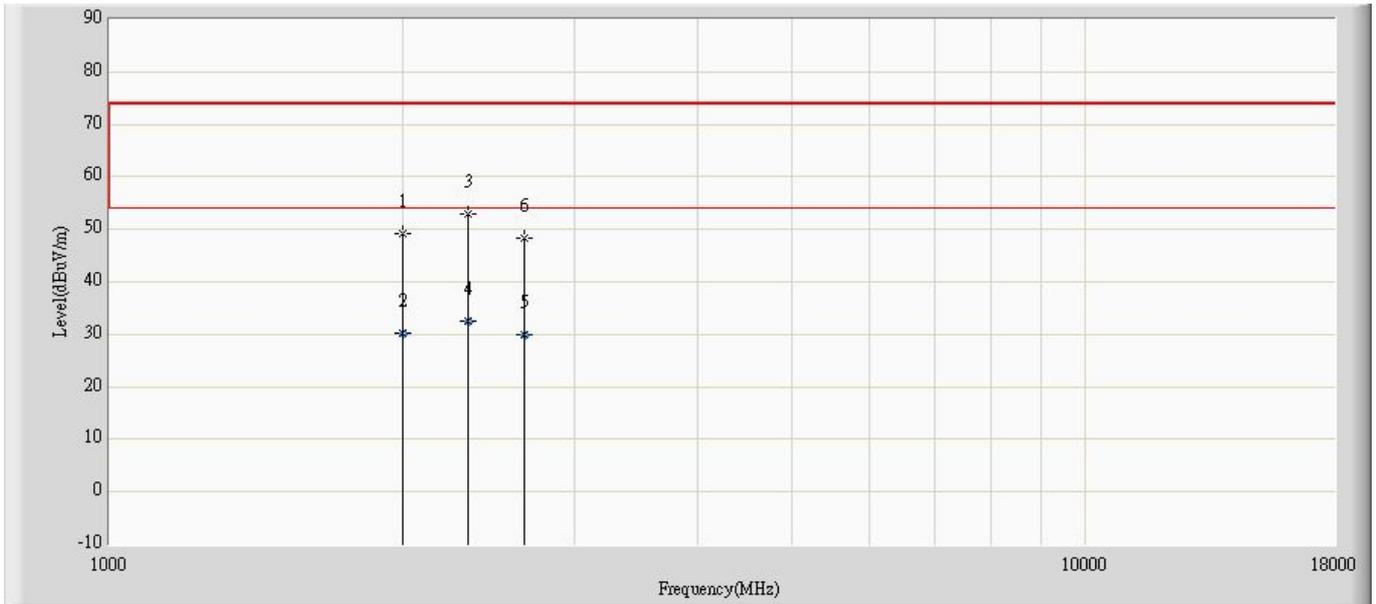
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	32.061	27.369	4.484	-12.631	40.000	22.885	QP
2		43.822	22.696	6.100	-17.304	40.000	16.597	QP
3		119.604	21.774	3.182	-21.726	43.500	18.592	QP
4		235.519	20.827	3.172	-25.173	46.000	17.655	QP
5		366.469	22.999	0.549	-23.001	46.000	22.451	QP
6		456.557	25.486	1.101	-20.514	46.000	24.385	QP

Engineer: Jack	
Site: AC2	Time: 2012/06/27 - 10:42
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 4: GPS Receive	



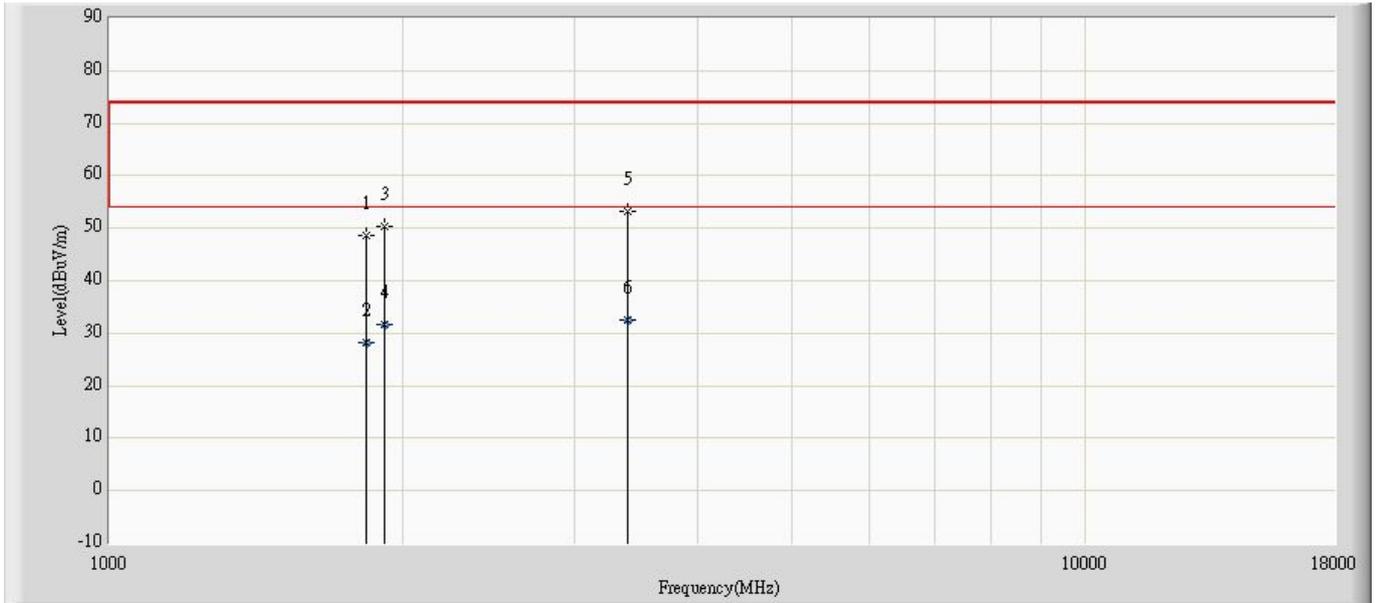
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	32.667	27.667	5.115	-12.333	40.000	22.551	QP
2		45.156	23.917	7.936	-16.083	40.000	15.980	QP
3		128.334	24.347	5.806	-19.153	43.500	18.541	QP
4		179.744	22.251	6.733	-21.249	43.500	15.518	QP
5		291.779	22.237	2.081	-23.763	46.000	20.156	QP
6		478.746	25.476	0.319	-20.524	46.000	25.157	QP

Engineer: Jack	
Site: AC5	Time: 2012/06/27 - 13:36
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Horizontal
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 4: GPS Receive	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1995.000	49.243	68.688	-20.757	70.000	-19.445	PK
2			1995.620	30.188	49.630	-19.812	50.000	-19.442	AV
3		*	2330.000	52.973	70.134	-17.027	70.000	-17.161	PK
4			2331.205	32.468	49.632	-17.532	50.000	-17.164	AV
5			2657.365	29.858	46.632	-20.142	50.000	-16.775	AV
6			2657.500	48.195	64.970	-21.805	70.000	-16.774	PK

Engineer: Jack	
Site: AC5	Time: 2012/06/27 - 13:36
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: BBHA 9120D_499(1-18GHz)	Polarity: Vertical
EUT: Mobile Phone	Power: AC 120V/60Hz
Note: Mode 4: GPS Receive	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			1830.000	48.547	68.964	-21.453	70.000	-20.418	PK
2			1831.624	28.214	48.624	-21.786	50.000	-20.409	AV
3			1912.500	50.317	70.296	-19.683	70.000	-19.978	PK
4		*	1913.624	31.658	51.629	-18.342	50.000	-19.971	AV
5			3392.500	53.141	69.199	-20.859	74.000	-16.058	PK
6			3393.632	32.573	48.625	-21.427	54.000	-16.053	AV