

Test Report

FCC Part15 Subpart B

Product Name : GSM/GPRS/EGPRS mobile phone
Model No. : SONIM XP1301-A-R1
Type No. : P25B005AN

Applicant : Sonim Technologies Inc
Address : 1875 S. Grant Street Suite 620 San Mateo, 94402
USA

Date of Receipt : 15/08/2011
Test Date : 15/08/2011~18/08/2011
Issued Date : 18/08/2011
Report No. : 116S087R-ITUSP01V02
Report Version : V1.0

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.

This report must not be used to claim product endorsement by TAF, NVLAP or any agency of the Government.

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Test Report Certification

Issued Date : 18/08/2011

Report No. : 116S087R-ITUSP01V02



Product Name : GSM/GPRS/EGPRS mobile phone
Applicant : Sonim Technologies Inc
Address : 1875 S. Grant Street Suite 620 San Mateo, 94402 USA
Manufacturer : Sonim Technologies Inc
Address : 1875 S. Grant Street Suite 620 San Mateo, 94402 USA
Model No. : Sonim XP1301-A-R1
Type No. : P25B005AN
EUT Voltage : DC 3.7V
Brand Name : Sonim
Applicable Standard : FCC Part 15 Subpart B: 2008 Class B
ANSI C63.4: 2009
ICES-003 Issue 4: 2004
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
FCC Registration Number: 800392; IC Lab Code: 4075B

Documented By :

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(Engineering ADM: Alice Ni)

Reviewed By :

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(Senior Engineer: Robin Wu)

Approved By :

Handwritten signature of Marlin Chen in black ink.

(Engineering Supervisor: 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

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:

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 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	GSM/GPRS/EGPRS mobile phone
Model No.	Sonim XP1301-A-R1
Type No.	P25B005AN
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
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	2.78dBi
2G	
Support Band	GSM 850/PCS 1900
GPRS Type	Class B
GPRS Class	Class 12
Tx Frequency Range	GSM 850: 824~849MHz PCS 1900: 1850~1910MHz
Rx Frequency Range	GSM 850: 869~894MHz PCS 1900: 1930~1990MHz
Release Version	GSM/GPRS/EDGE: R99
Type of modulation	GMSK for GSM/GPRS, 8PSK for EDGE
Antenna Gain	0dBi for GSM850 2dBi for PCS1900
Components	
Headset Model Number	ME-816B5-C
Battery	Brand Name: Sonim Rated Voltage and Capacitance: 3.7V/1750mAh
Adapter	Brand Name: Sonim M/N: DSA-3RNA-05 FEU Input: 100-240V~50/60Hz 0.3A Output: 5Vdc, 0.65A

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: USB Copy
Mode 3: FM

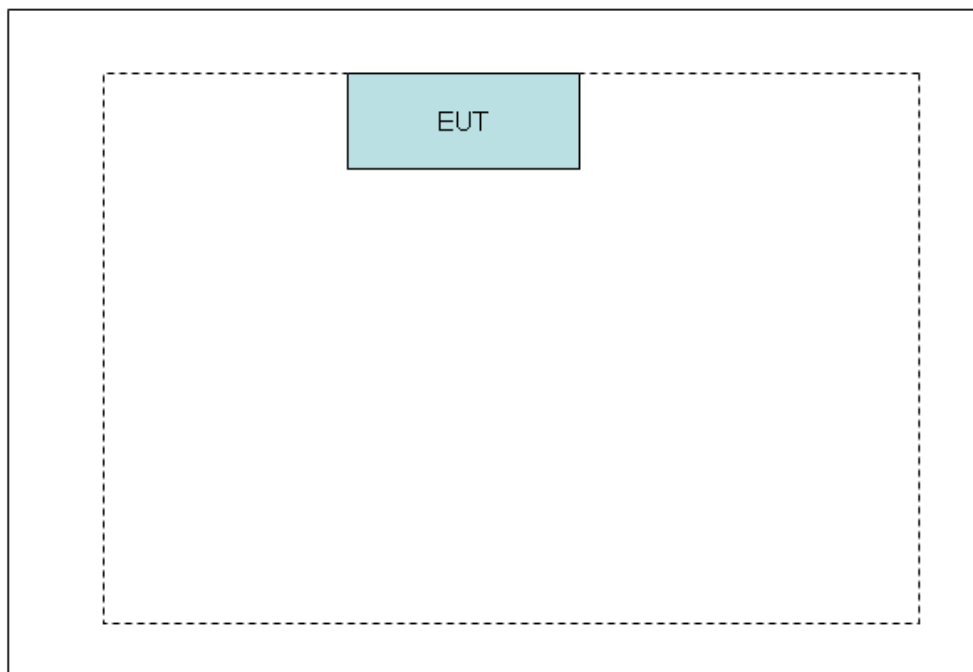
1.3. Tested System Details

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

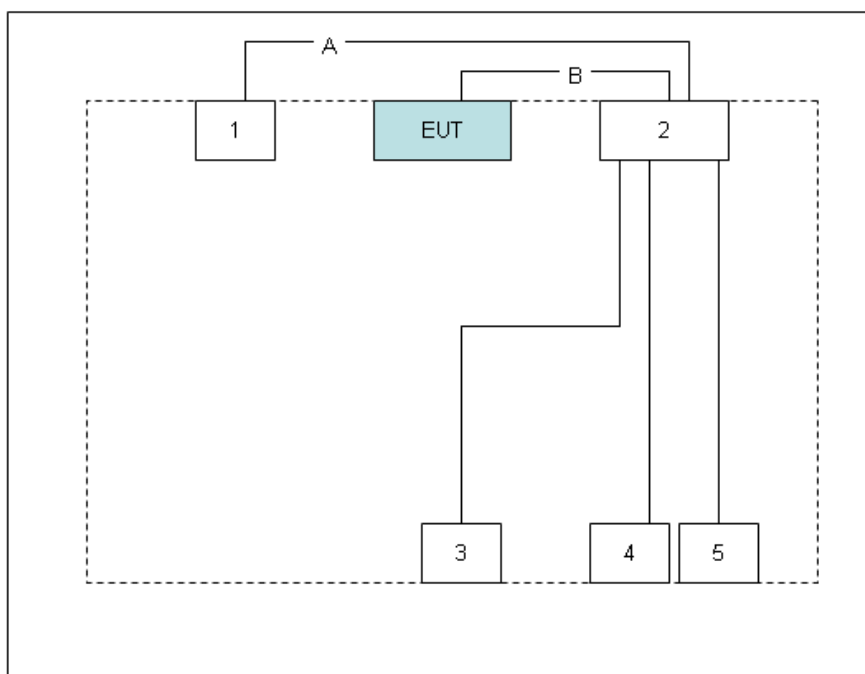
Product		Manufacturer	Model No.	Serial No.	Power Cord
1	LCD Monitor	DELL	3008WFP	26606581093	Non-Shielded, 1.8m
2	Notebook	DELL	E520	N/A	Non-Shielded, 1.8m
3	iPod	Apple	A1199	7J71085BVQ5E	Power by PC
4	Microphone& Earphone	SOMIC	V85	N/A	Power by PC
5	USB Mouse	DELL	MOC5UO	10D00JJL	Power by PC
6	Signal Generator	Agilent	E4438C	MY49070163	N/A

1.4. Configuration of Tested System

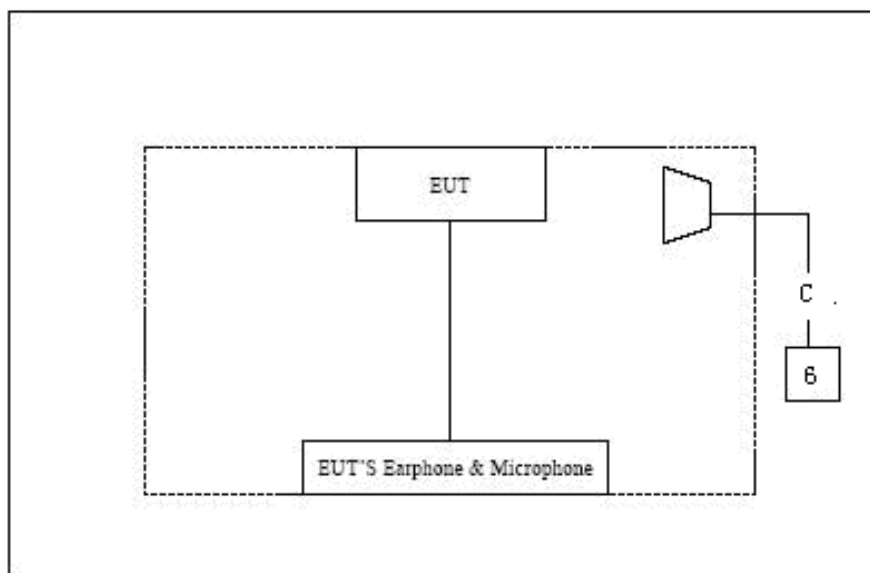
Connection Diagram (Mode 1)



Connection Diagram (Mode 2)



Connection Diagram (Mode 3)



Signal Cable Type		Signal cable Description
A	VGA Cable	Shielded, 1.5m
B	USB Cable	Shielded, 1.2m
C	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) Open the software "WINTHRAX", and then transmit data with notebook. (3) Making EUT work under the "FM" Mode.
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: 2008 Class B ANSI C63.4: 2009	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart B: 2008 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	2012/01/15
Two-Line V-Network	R&S	ENV216	100043	2012/04/29
Two-Line V-Network	R&S	ENV216	100044	2011/09/07
Balanced Telecom ISN	Fischer	FCC-TLISN-T2-02	20352	2012/01/15
Balanced Telecom ISN	Fischer	FCC-TLISN-T4-02	20353	2012/01/15
Balanced Telecom ISN	Fischer	FCC-TLISN-T8-02	20354	2012/01/15
Current Probe	R&S	EZ-17	100255	2012/04/18
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2012/05/05
50ohm Termination	SHX	TF2	07081401	2011/09/27
50ohm Termination	SHX	TF2	07081402	2011/09/27
50ohm Termination	SHX	TF2	07081403	2011/09/15
Temperature/Humidity Meter	zhicheng	ZC1-2	TR1-TH	2012/01/14

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Due Date
EMI Test Receiver	R&S	ESCI	100573	2012/04/23
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2011/10/18
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2012/05/05
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC2-TH	2012/01/14

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

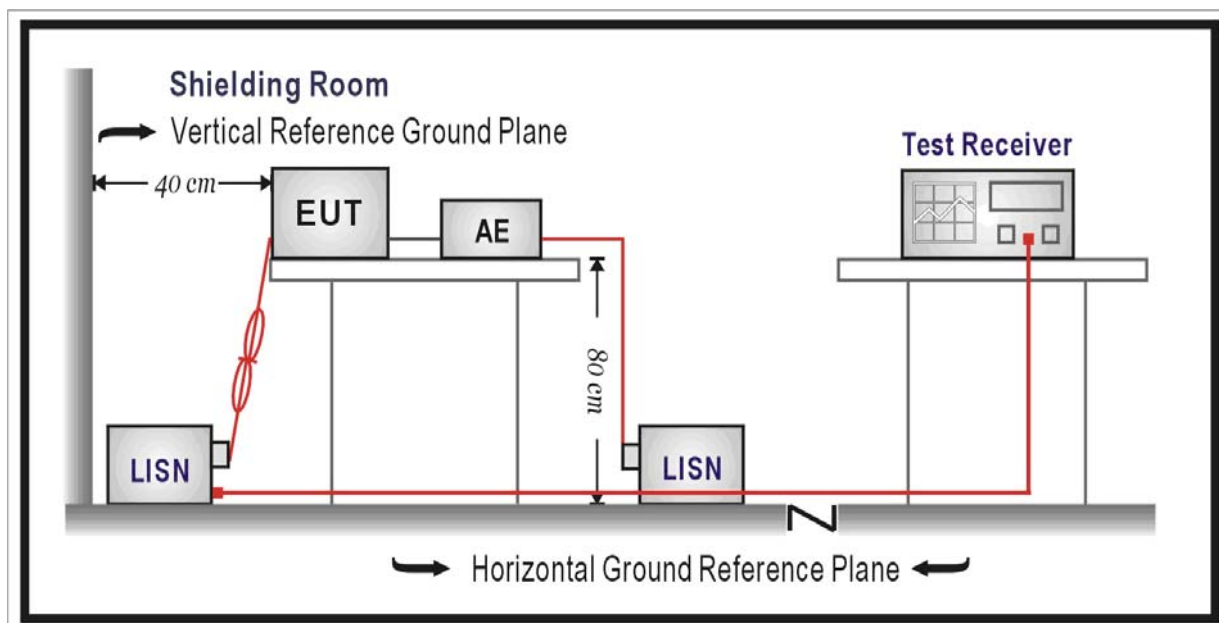
Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000
Radiated Emission	Temperature (°C)	15-35	25
	Humidity (%RH)	25-75	50
	Barometric pressure (mbar)	860-1060	950-1000

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 50Ω / $50\mu\text{H}$ 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.

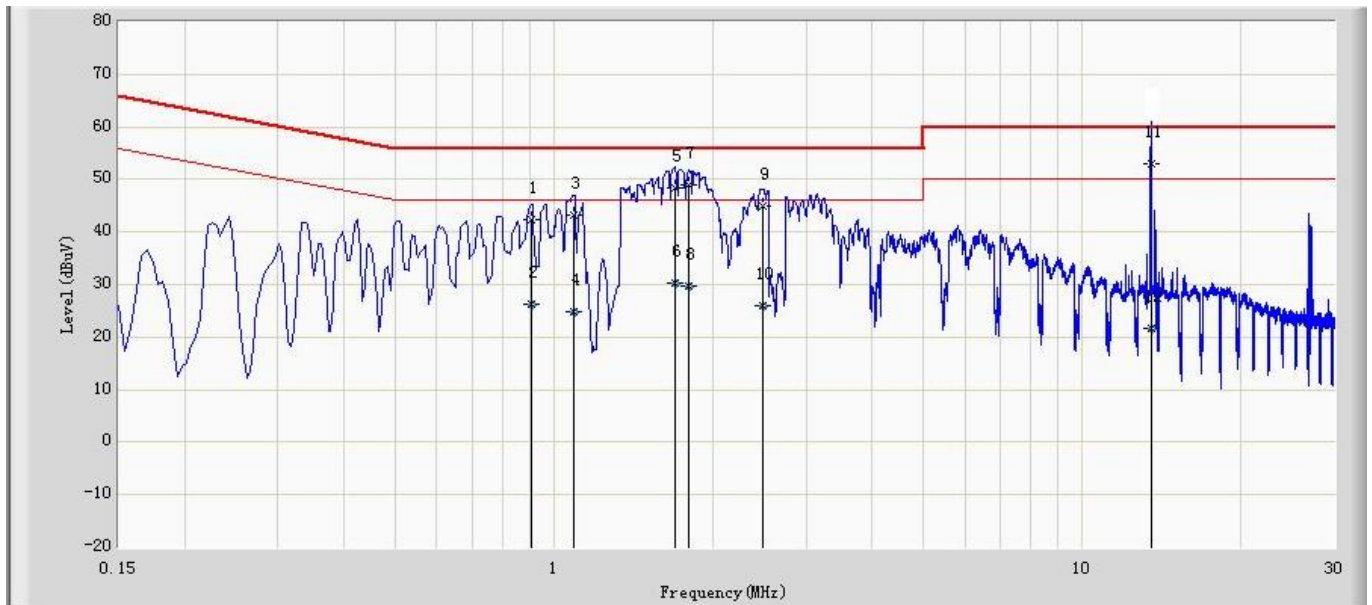
Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

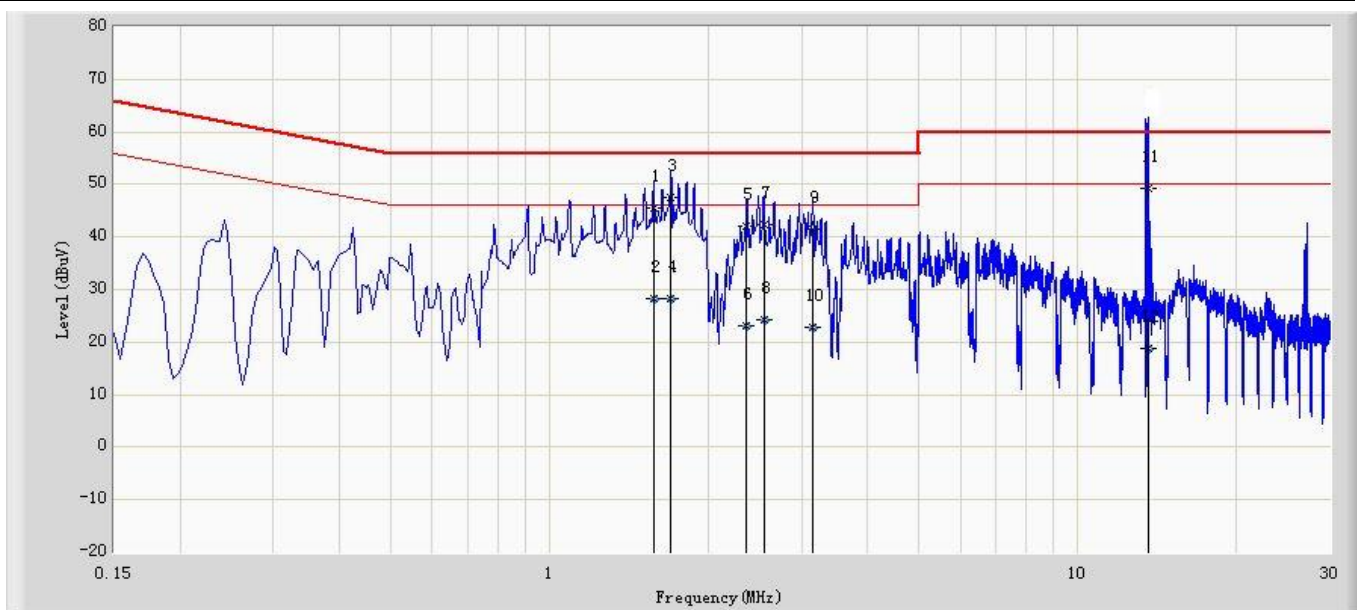
3.6. Test Result

Engineer: Jack	
Site: TR1	Time: 2011/08/18 - 15:57
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: GSM/GPRS/EGPRS mobile phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On	



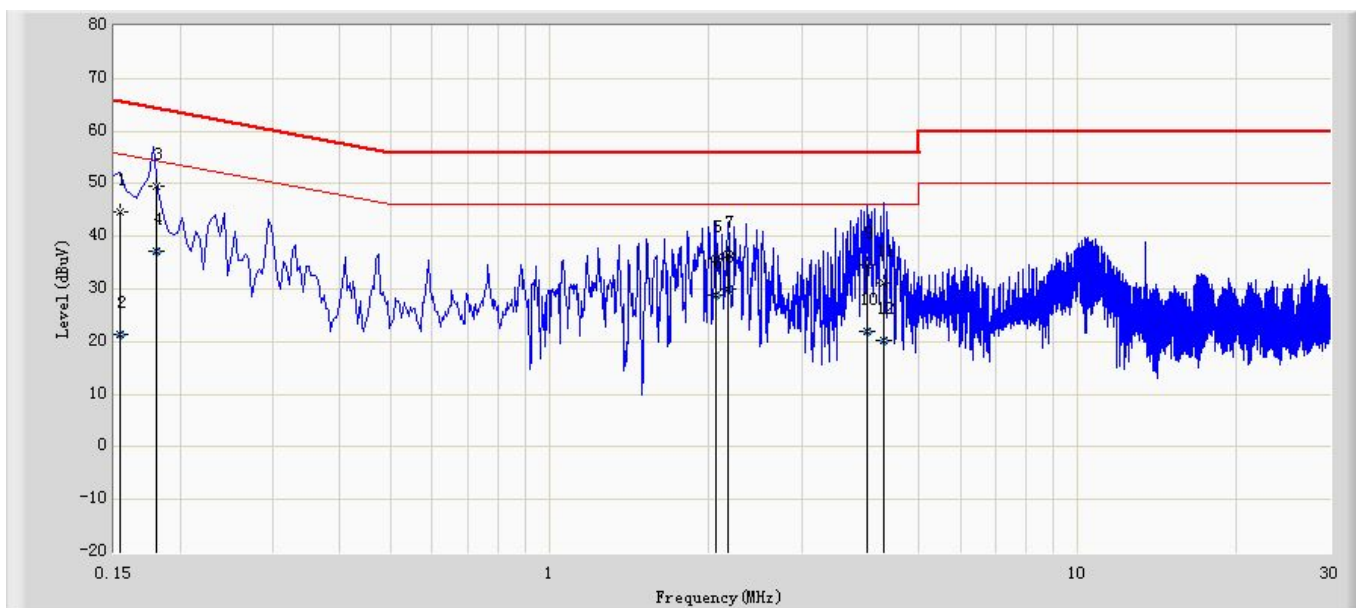
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.906	42.353	32.653	-13.647	56.000	9.700	QP
2		0.906	26.345	16.645	-19.655	46.000	9.700	AV
3		1.090	43.255	33.555	-12.745	56.000	9.700	QP
4		1.090	24.910	15.210	-21.090	46.000	9.700	AV
5		1.698	48.435	38.725	-7.565	56.000	9.710	QP
6		1.698	30.196	20.486	-15.804	46.000	9.710	AV
7		1.798	48.901	39.191	-7.099	56.000	9.710	QP
8		1.798	29.740	20.030	-16.260	46.000	9.710	AV
9		2.486	44.870	35.132	-11.130	56.000	9.738	QP
10		2.486	26.068	16.330	-19.932	46.000	9.738	AV
11	*	13.554	53.060	43.000	-6.940	60.000	10.060	QP
12		13.554	21.660	11.600	-28.340	50.000	10.060	AV

Engineer: Jack	
Site: TR1	Time: 2011/08/18 - 15:57
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: GSM/GPRS/EGPRS mobile phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On	



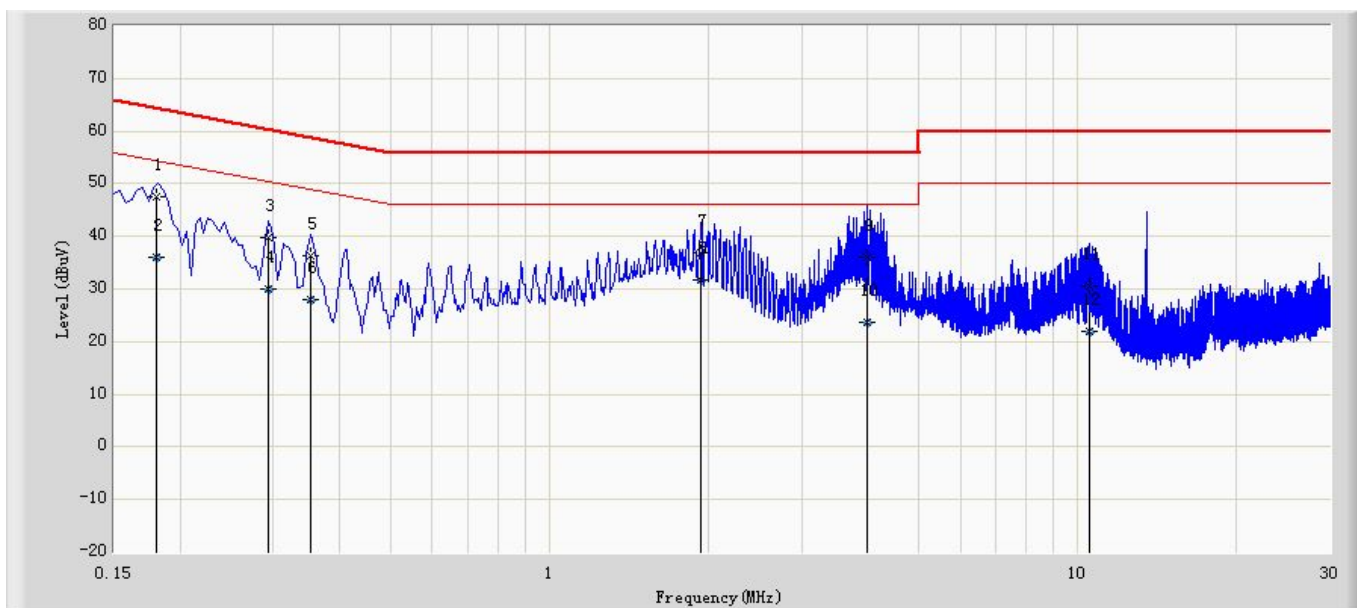
No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		1.578	45.640	35.920	-10.360	56.000	9.720	QP
2		1.578	28.143	18.423	-17.857	46.000	9.720	AV
3	*	1.698	47.545	37.825	-8.455	56.000	9.720	QP
4		1.698	28.303	18.583	-17.697	46.000	9.720	AV
5		2.362	42.203	32.458	-13.797	56.000	9.745	QP
6		2.362	22.963	13.218	-23.037	46.000	9.745	AV
7		2.546	42.486	32.739	-13.514	56.000	9.747	QP
8		2.546	24.303	14.556	-21.697	46.000	9.747	AV
9		3.150	41.375	31.610	-14.625	56.000	9.765	QP
10		3.150	22.732	12.967	-23.268	46.000	9.765	AV
11		13.590	49.321	39.200	-10.679	60.000	10.121	QP
12		13.590	18.921	8.800	-31.079	50.000	10.121	AV

Engineer: Jack	
Site: TR1	Time: 2011/08/18 - 15:57
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Line
EUT: GSM/GPRS/EGPRS mobile phone	Power: AC 120V/60Hz
Note: Mode 2: USB Copy	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.154	44.594	34.913	-21.187	65.781	9.681	QP
2		0.154	21.452	11.770	-34.330	55.781	9.681	AV
3	*	0.180	49.512	39.846	-14.973	64.485	9.666	QP
4		0.180	37.051	27.385	-17.434	54.485	9.666	AV
5		2.062	35.692	25.971	-20.308	56.000	9.721	QP
6		2.062	28.724	19.003	-17.276	46.000	9.721	AV
7		2.178	36.710	26.987	-19.290	56.000	9.723	QP
8		2.178	29.935	20.212	-16.065	46.000	9.723	AV
9		4.006	34.495	24.702	-21.505	56.000	9.793	QP
10		4.006	22.084	12.291	-23.916	46.000	9.793	AV
11		4.302	31.052	21.244	-24.948	56.000	9.808	QP
12		4.302	20.247	10.438	-25.753	46.000	9.808	AV

Engineer: Jack	
Site: TR1	Time: 2011/08/18 - 15:57
Limit: FCC_Part15.107_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101044(0.009-30MHz)	Polarity: Neutral
EUT: GSM/GPRS/EGPRS mobile phone	Power: AC 120V/60Hz
Note: Mode 2: USB Copy	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.180	47.638	37.980	-16.847	64.485	9.658	QP
2		0.180	35.995	26.337	-18.490	54.485	9.658	AV
3		0.294	39.805	30.102	-20.605	60.411	9.704	QP
4		0.294	29.925	20.221	-20.486	50.411	9.704	AV
5		0.354	36.300	26.600	-22.568	58.868	9.700	QP
6		0.354	27.935	18.236	-20.933	48.868	9.700	AV
7		1.938	36.849	27.119	-19.151	56.000	9.730	QP
8	*	1.938	31.759	22.029	-14.241	46.000	9.730	AV
9		3.994	36.113	26.316	-19.887	56.000	9.797	QP
10		3.994	23.740	13.944	-22.260	46.000	9.797	AV
11		10.502	30.561	20.545	-29.439	60.000	10.016	QP
12		10.502	21.981	11.966	-28.019	50.000	10.016	AV

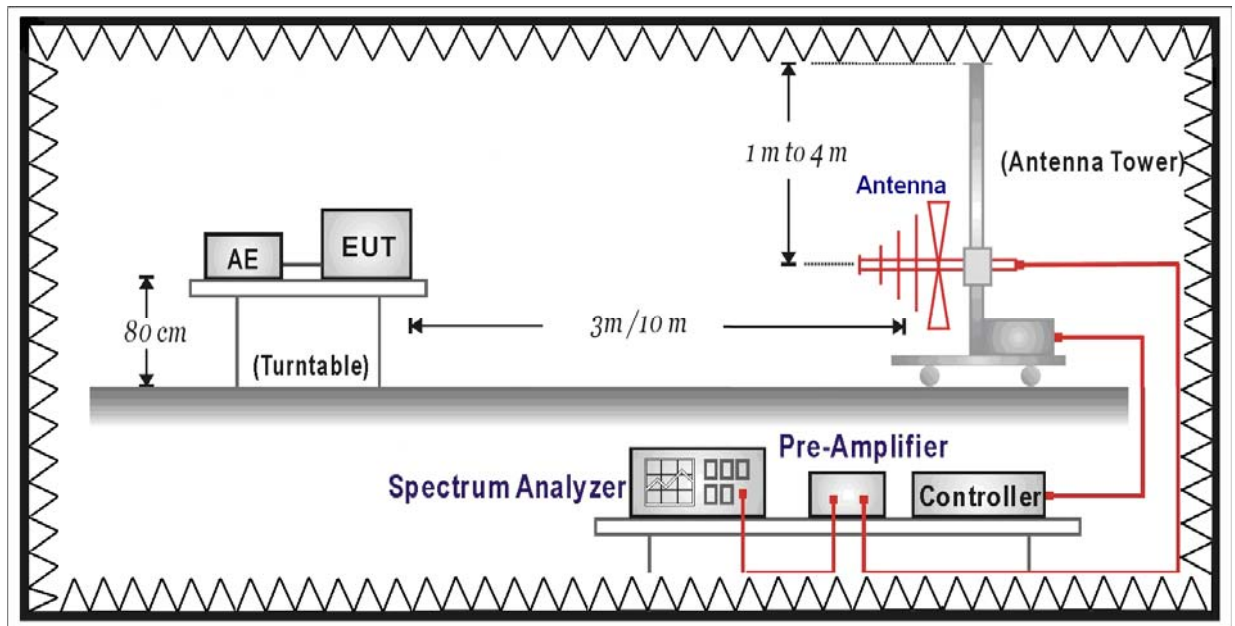
4. Radiated Emission

4.1. Test Specification

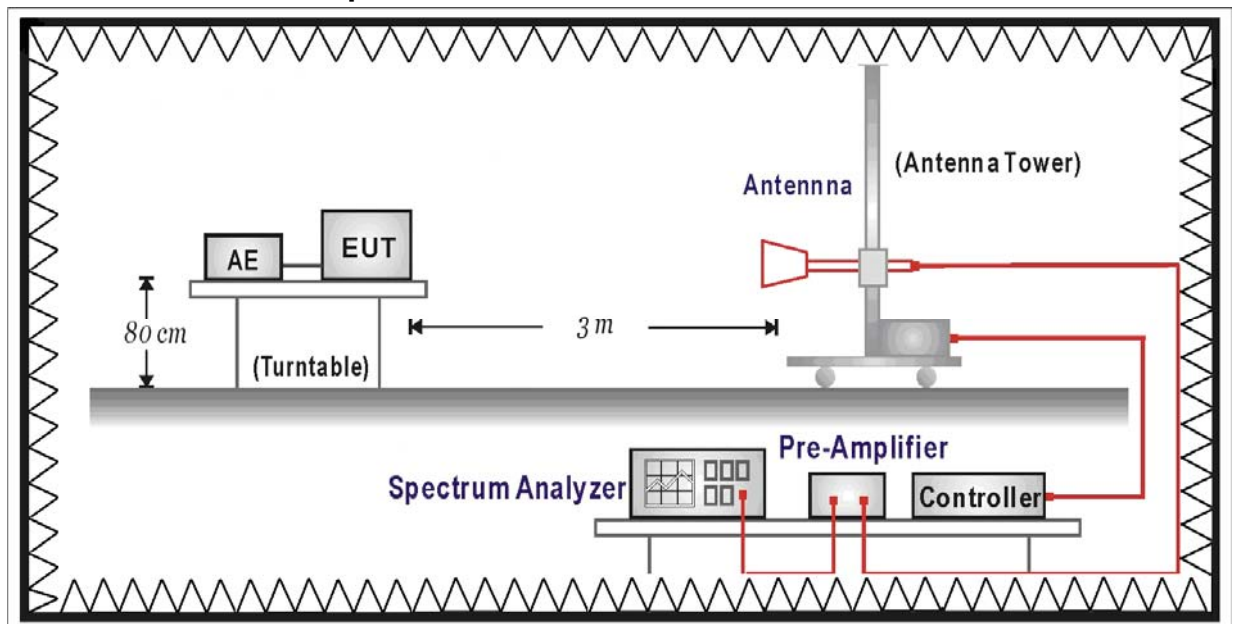
According to EMC Standard: FCC Part 15 Subpart B Class B, ANSI C63.4

4.2. Test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup



4.3. Limit

Limits for Radiated Emission of class B ITE at a measuring distance of 3m	
Frequency of Emission (MHz)	Field Strength dB(μV/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960	54
NOTE: The lower limit shall apply at the transition frequency.	

4.4. Test Procedure

The EUT and its simulators are placed on a turntable which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. 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 changed during radiated measurement.

The bandwidth below 1GHz setting on the receiver is 120 kHz and above 1GHz is 1MHz.

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 to 108	1000
108 to 500	2000
500 to 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

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

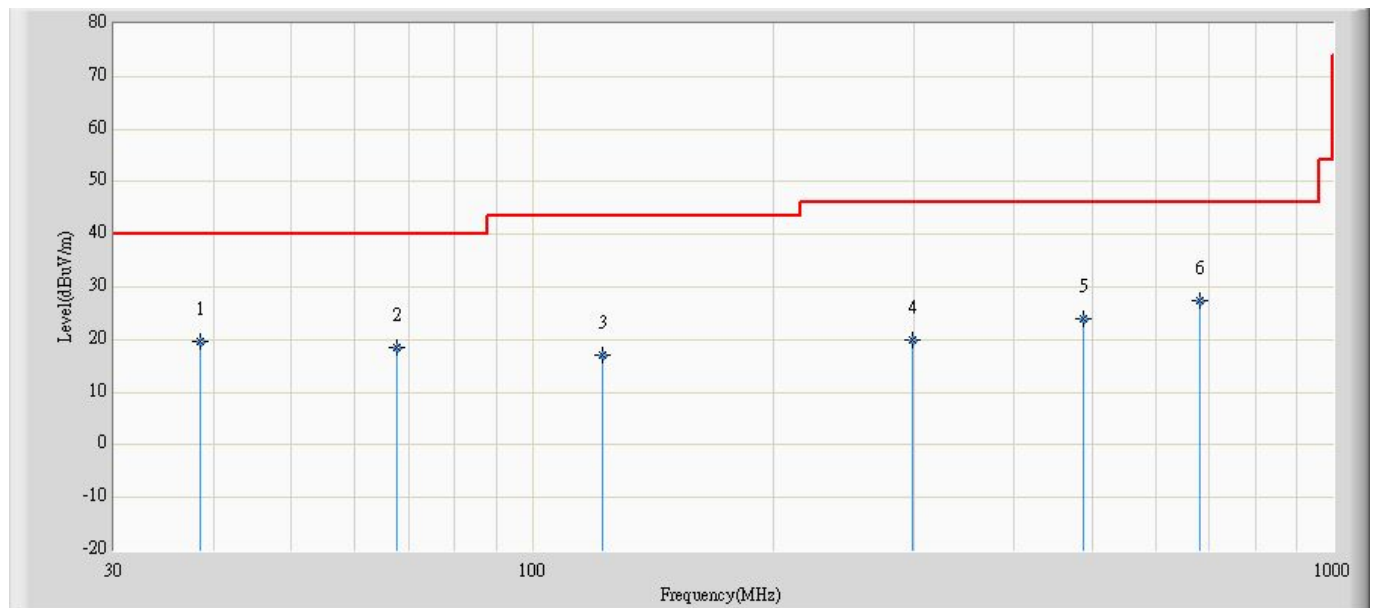
When average radiated emission measurement are included emission measurement Above 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

Engineer: Jack	
Site: AC2	Time: 2011/08/18 - 15:44
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Horizontal
EUT: GSM/GPRS/EGPRS mobile phone	Power: AC 120V/60Hz
Note: Mode 1: Charging + Camera On	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			38.366	19.584	5.989	-20.416	40.000	13.595	QP
2			67.709	18.371	12.540	-21.629	40.000	5.832	QP
3			122.029	17.066	4.327	-26.434	43.500	12.739	QP
4			298.205	20.013	5.518	-25.987	46.000	14.495	QP
5			487.961	24.074	4.744	-21.926	46.000	19.330	QP
6		*	680.628	27.387	5.949	-18.613	46.000	21.438	QP

Engineer: Jack

Site: AC2

Time: 2011/08/18 - 15:44

Limit: FCC_Part15.109_RE(3m)_ClassB

Margin: 0

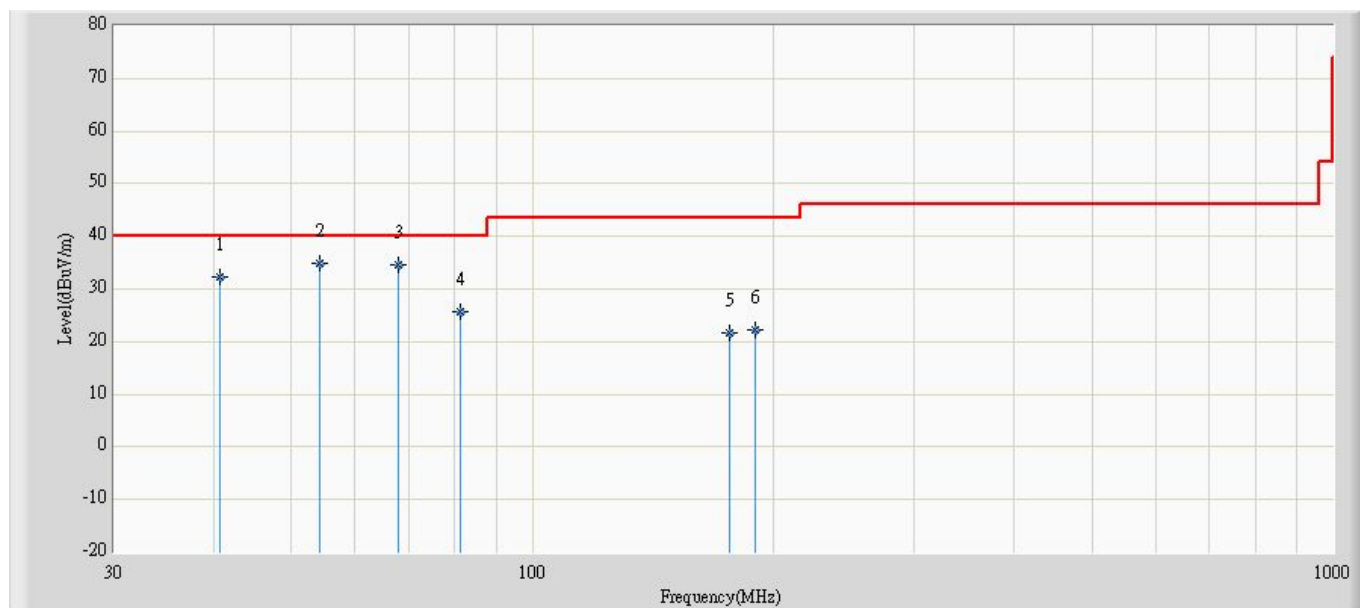
Probe: CBL6112D_27611(30-1000MHz)

Polarity: Vertical

EUT: GSM/GPRS/EGPRS mobile phone

Power: AC 120V/60Hz

Note: Mode 1: Charging + Camera On



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			40.670	32.219	19.849	-7.781	40.000	12.370	QP
2		*	54.129	34.840	27.651	-5.160	40.000	7.189	QP
3			67.830	34.635	28.805	-5.365	40.000	5.830	QP
4			81.289	25.579	17.836	-14.421	40.000	7.743	QP
5			176.227	21.788	11.923	-21.712	43.500	9.865	QP
6			189.807	22.268	12.473	-21.232	43.500	9.794	QP

Engineer: Jack

Site: AC2

Time: 2011/08/18 - 15:44

Limit: FCC_Part15.109_RE(3m)_ClassB

Margin: 0

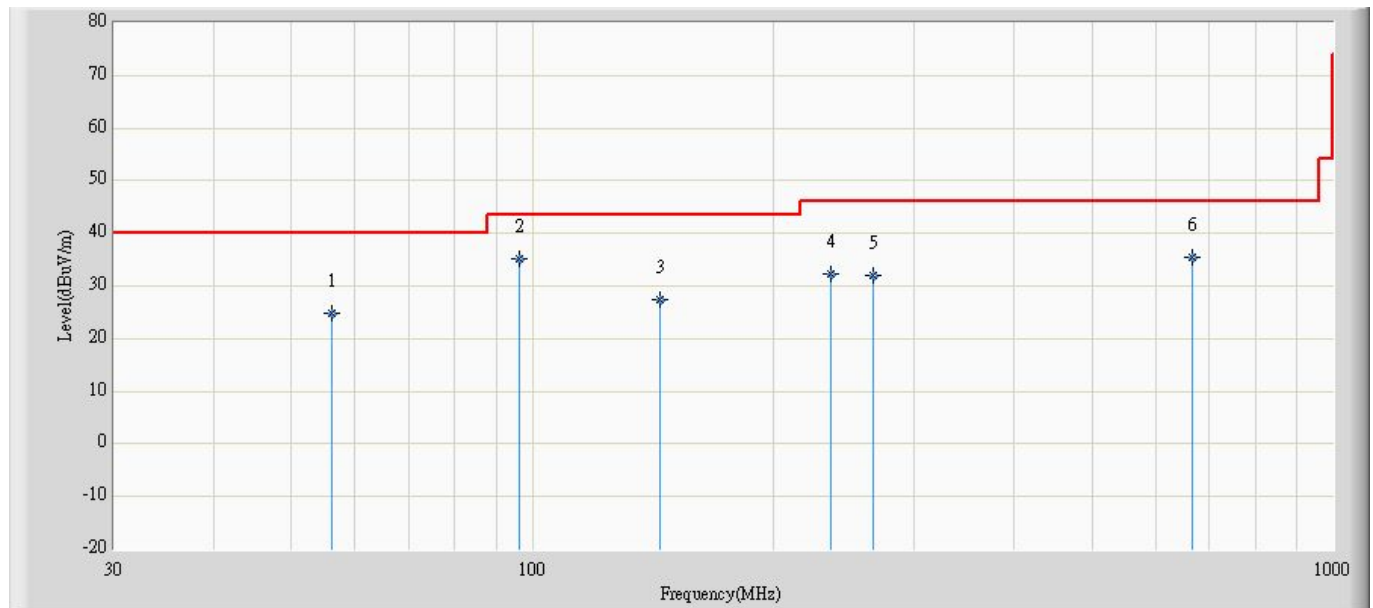
Probe: CBL6112D_27611(30-1000MHz)

Polarity: Horizontal

EUT: GSM/GPRS/EGPRS mobile phone

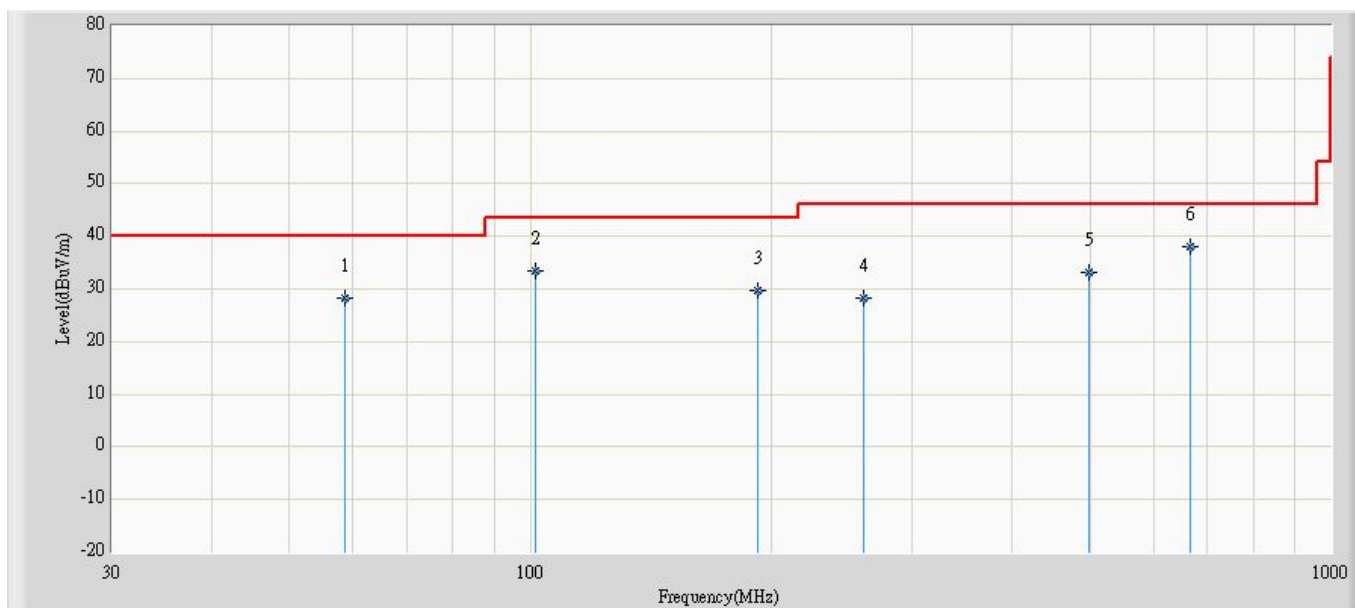
Power: AC 120V/60Hz

Note: Mode 2: USB Copy



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			56.190	24.691	17.971	-15.309	40.000	6.720	QP
2		*	96.081	35.127	24.346	-8.373	43.500	10.781	QP
3			143.975	27.534	16.129	-15.966	43.500	11.405	QP
4			235.519	32.284	20.539	-13.716	46.000	11.745	QP
5			266.316	32.080	18.009	-13.920	46.000	14.071	QP
6			666.805	35.375	13.955	-10.625	46.000	21.420	QP

Engineer: Jack	
Site: AC2	Time: 2011/08/18 - 15:44
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: GSM/GPRS/EGPRS mobile phone	Power: AC 120V/60Hz
Note: Mode 2: USB Copy	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			58.615	28.382	22.077	-11.618	40.000	6.305	QP
2			101.295	33.349	21.734	-10.151	43.500	11.615	QP
3			191.990	29.851	19.941	-13.649	43.500	9.910	QP
4			260.860	28.174	14.144	-17.826	46.000	14.030	QP
5			498.753	33.127	13.747	-12.873	46.000	19.380	QP
6		*	666.684	37.939	16.519	-8.061	46.000	21.420	QP

Engineer: Jack

Site: AC2

Time: 2011/08/18 - 15:44

Limit: FCC_Part15.109_RE(3m)_ClassB

Margin: 0

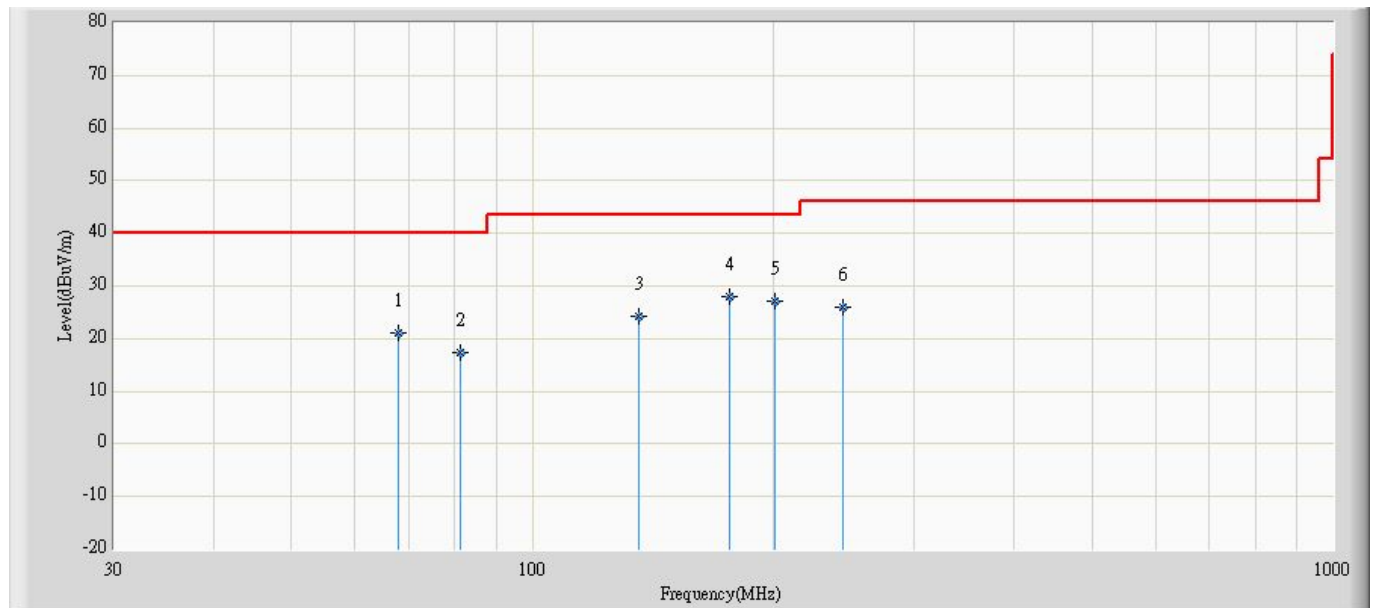
Probe: CBL6112D_27611(30-1000MHz)

Polarity: Horizontal

EUT: GSM/GPRS/EGPRS mobile phone

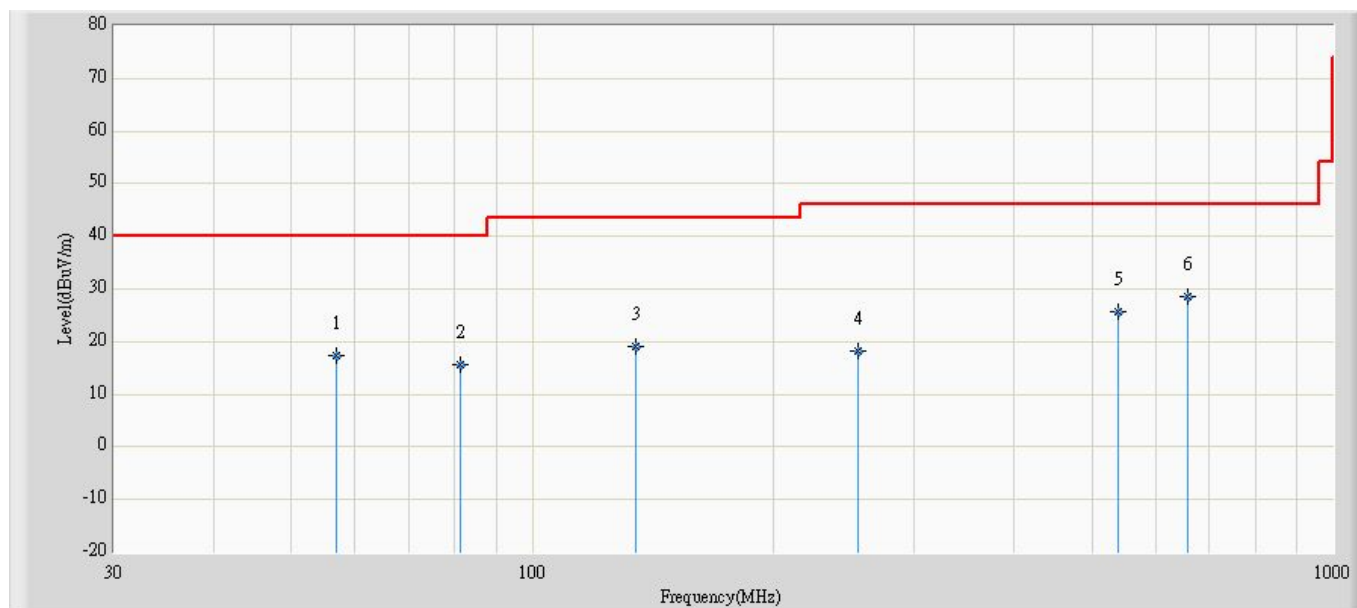
Power: By Battery

Note: Mode 3:FM



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			67.830	20.957	15.127	-19.043	40.000	5.830	QP
2			81.289	17.278	9.535	-22.722	40.000	7.743	QP
3			135.609	24.377	12.146	-19.123	43.500	12.231	QP
4		*	176.227	27.862	17.997	-15.638	43.500	9.865	QP
5			200.720	27.036	16.836	-16.464	43.500	10.200	QP
6			244.128	25.978	13.160	-20.022	46.000	12.818	QP

Engineer: Jack	
Site: AC2	Time: 2011/08/18 - 15:44
Limit: FCC_Part15.109_RE(3m)_ClassB	Margin: 0
Probe: CBL6112D_27611(30-1000MHz)	Polarity: Vertical
EUT: GSM/GPRS/EGPRS mobile phone	Power: By Battery
Note: Mode 3:FM	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			56.796	17.482	10.874	-22.518	40.000	6.607	QP
2			81.289	15.589	7.846	-24.411	40.000	7.743	QP
3			134.760	19.208	6.898	-24.292	43.500	12.310	QP
4			254.555	18.320	4.555	-27.680	46.000	13.765	QP
5			538.037	25.822	5.510	-20.178	46.000	20.312	QP
6		*	659.166	28.453	6.993	-17.547	46.000	21.460	QP