



Shenzhen Certification Technology Service Co., Ltd.  
2F, Building B, East Area of Nanchang Second Industrial  
Zone, Gushu 2nd Road, Bao'an District, Shenzhen  
518126, P.R. China

# TEST REPORT

**FCC ID: HEO12863**

Applicant: GFIVE MOBILE FZE

Address: Unit 1, 16/F, Cable TV Tower, 9 Hoi Shing Road, Tusen Wan, N.T., Hong Kong, China

Equipment Under Test (EUT):

Name : Mobile Phone

Model : C1188

In Accordance with: FCC PART 2; FCC PART 22H; FCC PART 24E

Report No : STE120410378

Date of Test : Apr. 08--10, 2012

Date of Issue : Apr. 11,2012

Test Result: **PASS**

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)

General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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## 1. General Information

### 1.1. Description of Device (EUT)

EUT	:	Mobile Phone
Model No.	:	C1188
Power supply	:	DC 3.7V from battery
Radio Technology	:	CDMA 2000 Cellular;
Operation frequency	:	824.2MHz—848.8MHz
Modulation	:	QPSK
Antenna Type	:	PIFA antenna, Maximum Gain: 2dBi
Applicant	:	GFIVE MOBILE FZE
Address	:	Unit 1, 16/F, Cable TV Tower, 9 Hoi Shing Road, Tusen Wan, N.T., Hong Kong, China
Manufacturer	:	Kingtech Telecom (Shenzhen) Co., Ltd
Address	:	Floor 1-5, Building F, No.9, East Zone, Shangxue Sci-tech Industrial Park, Bantian Street, Longgang District, Shenzhen City, China.

### 1.2. Test Lab information

Shenzhen Certification Technology Service Co., Ltd.  
2F, Building B, East Area of Nanchang Second Industrial Zone,  
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China  
FCC Registered No.:197647

## 2. Summary of test

### 2.1. Summary of test result

Description of Test Item	Standard	Results
Conducted Output power	FCC PART 2: 2.1046 FCC PART 22H: 22.913 (a) FCC PART 24E: 24.232 (c)	PASS
Radiated Output power(erp/eirp)	FCC PART 22H:22.913 (a) FCC PART 24E:24.232(c)	PASS
Occupied bandwidth	FCC PART 2: 2.1049 FCC PART 22H: 22.917 (b) FCC PART 24E: 24.238 (b)	PASS
Frequency stability	FCC PART 2: 2.1055 FCC PART 22H: 22.355 FCC PART 24E: 24.235	PASS
Conducted spurious emission (Antenna terminal)	FCC PART 2: 2.1051 FCC PART 22H: 22.917 FCC PART 24E: 24.238	PASS
Radiated spurious emissions	FCC PART 2: 2.1053 FCC PART 22H: 22.917 FCC PART 24E: 24.238	PASS
Block edge compliance	FCC PART 22H: 22.917 (b) FCC PART 24E: 24.238 (b)	PASS
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.4: 2003	PASS

### 2.2. Assistant equipment used for test

N/A

### 2.3. Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Mode	Channel	Frequency(MHz)
CDMA2000 Cellular	1013	824.70
	334	835.02
	777	848.31

### 2.4. Test Environment Conditions

Temperature range	21-25°C
Humidity range	40-75%
Pressure range	86-106kPa

### 2.5. Measurement Uncertainty (95% confidence levels, k=2)

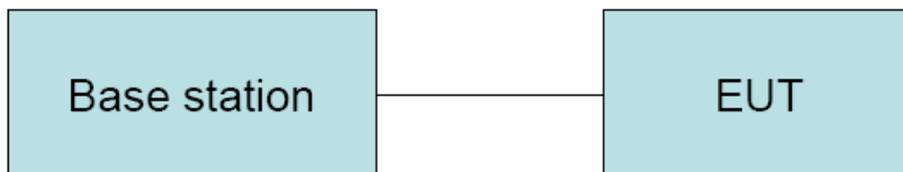
Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.54dB	Polarize: V
	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	2.08dB	Polarize: H
	2.56dB	Polarize: V
Uncertainty for radio frequency	$1 \times 10^{-9}$	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

## 2.6. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	05.08, 2011	1 Year
Spectrum analyzer	Agilent	E4443A	MY46185649	05.08, 2011	1 Year
Receiver	R&S	ESCI	100492	05.08, 2011	1 Year
Receiver	R&S	ESCI	101202	05.08, 2011	1 Year
Bilog Antenna	Sunol	JB3	A121206	15.12.2011	1 Year
Horn Antenna	EMCO	3115	640201028-06	15.12.2011	1 Year
Power Meter	Anritsu	ML2487A	6K00001491	05.08, 2011	1 Year
ETS Horn Antenna	ETS	3160	SEL0076	05.08, 2011	1 Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15.12.2011	1 Year
Cable	Resenberger	N/A	No.1	05.08, 2011	1 Year
Cable	SCHWARZBEC K	N/A	No.2	05.08, 2011	1 Year
Cable	SCHWARZBEC K	N/A	No.3	05.08, 2011	1 Year
Pre-amplifier	R&S	AFS42-00101 800-25-S-42	SEL0081	05.08, 2011	1 Year
Pre-amplifier	R&S	AFS33-18002 650-30-8P-44	SEL0080	05.08, 2011	1 Year
Base station	Agilent	E5515C	GB44300243	05.08, 2011	1 Year
Temperature controller	Terchy	MHQ	120	05.08, 2011	1 Year
Power divider	Anritsu	K240C	020346	05.08, 2011	1 Year
Signal Generator	HP	83732B	VS3449051	05.08, 2011	1 Year
Attenuator	Agilent	8491B	MY39262165	05.08, 2011	1 Year

### 3. Conducted Output power

#### 3.1. Block Diagram of Test Setup



#### 3.2. Limit

Cellular Telephone 850MHz
38.5dBm(ERP)

#### 3.3. Test Procedure

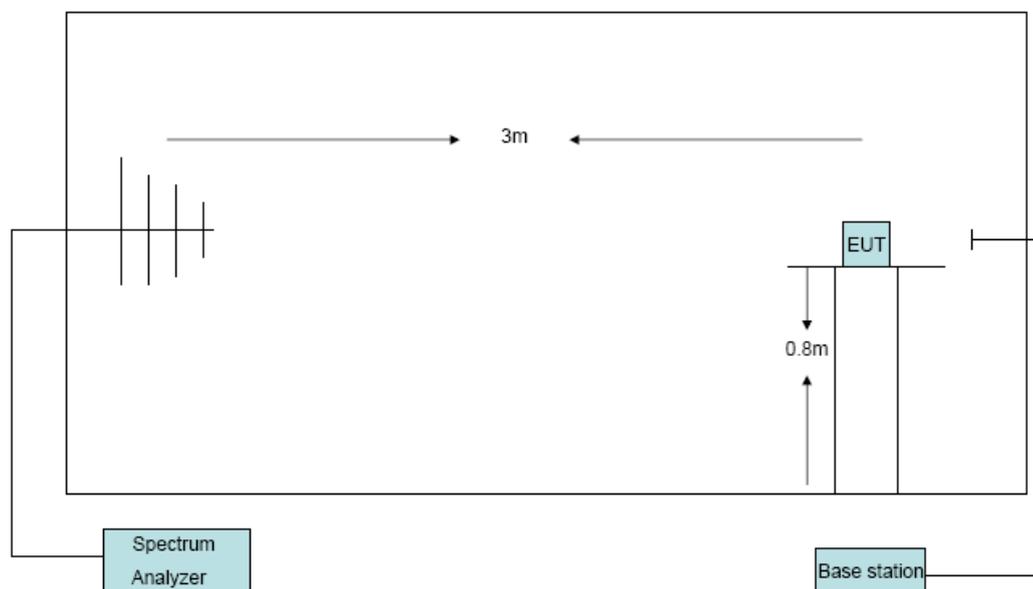
- (1) The EUT's RF output port was connected to base station.
- (2) A call is set up by the SS according to the generic call set up procedure
- (3) Set EUT at maximum power level through base station by power level command
- (4) Measure the maximum output power of EUT at each frequency band and mode by base station.

#### 3.4. Test Result

EUT: Mobile Phone		M/N:C1188		Power: DC 3.7V		
Ambient Temperature:24°C		Relative Humidity: 62%				
Test date: 2012-04-08		Test site: RF site		Tested by: TaTa_Chen		
Conclusion: PASS						
Mode	Channel	PK Output Power(dBm)	ERP (dBm)	EIRP (dBm)	Limit	
					ERP(dBm)	EIRP(dBm)
CDMA2000 Cellular	1013	24.10	23.95	/	38.5	/
	334	24.50	24.35	/	38.5	/
	777	23.90	23.75	/	38.5	/
Note: EIRP=P <sub>k</sub> output power +Antenna Gain(2dBi); ERP=PK output power + Antenna Gain(2dBi) -2.15						

## 4. Radiated Output power

### 4.1. Block Diagram of Test Setup



### 4.2. Limit

Cellular Telephone 850MHz
38.5dBm(ERP)

### 4.3. Test Procedure

1. The EUT was placed on a non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz, VBW= 3MHz and peak detector settings.
2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same polarization of receiver antenna and then a known power of each measure frequency from

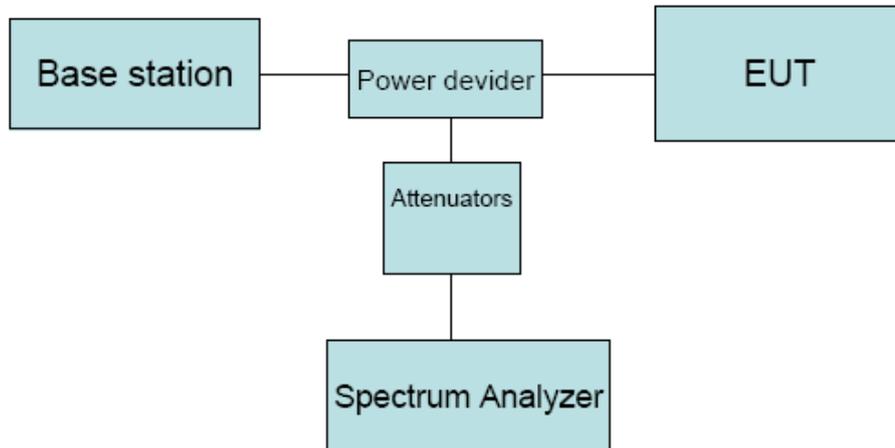
S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Substitution antenna Loss(only for Dipole antenna) - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor,  $EIRP = LVL + \text{Correction factor}$  and  $ERP = EIRP - 2.15$

#### 4.4. Test Result

EUT: Mobile Phone      M/N:C1188					
Power: DC 3.7V					
Ambient Temperature:23°C			Relative Humidity: 60%		
Test date: 2012-04-08			Test site: RF site		Tested by: TaTa_Chen
Conclusion: PASS					
Mode	Channel	LVL (dBm)	Correction factor(dB)	ERP (dBm)	EIRP (dBm)
CDMA2000 Cellular	1013	-0.82	26.42	23.45	/
	334	-0.76	26.21	23.30	/
	777	-0.8	26.05	23.10	/
ERP=LVL + Correction factor -2.15					
EIRP=LVL+ Correction factor					

## 5. Occupied Bandwidth

### 5.1. Block Diagram of Test Setup



### 5.2. Limit

N/A

### 5.3. Test Procedure

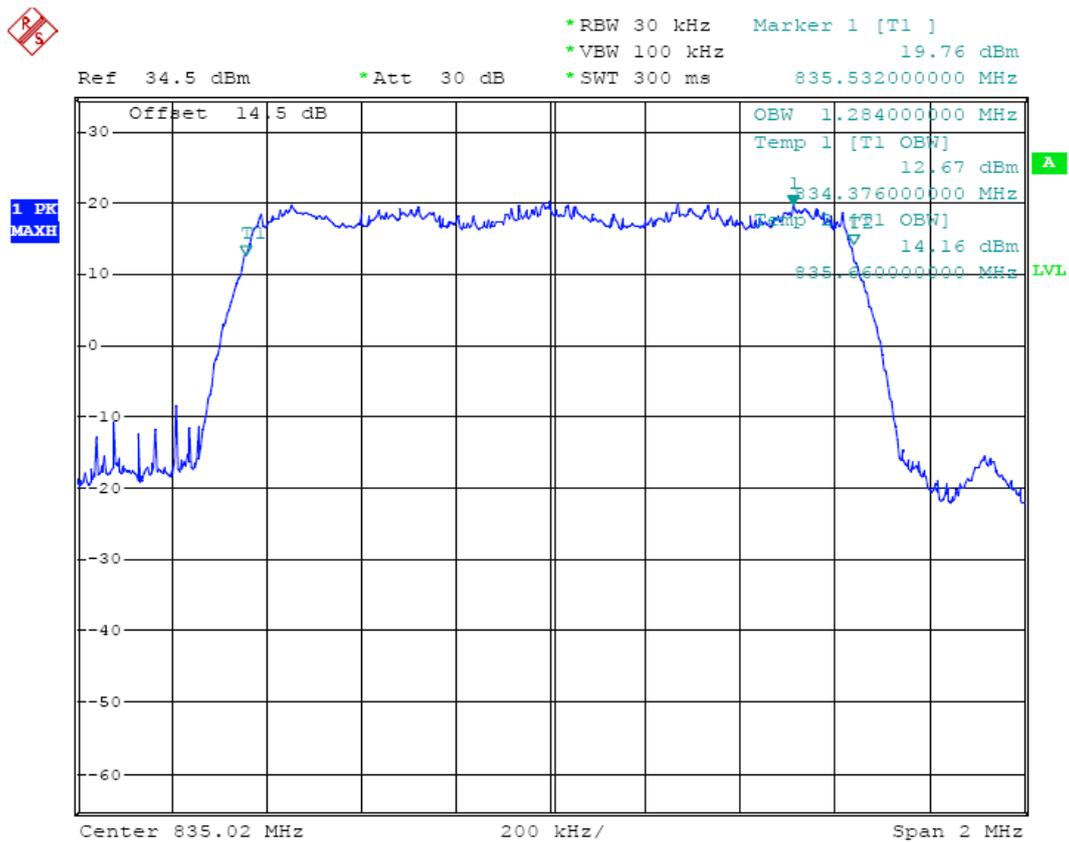
1. The EUT' RF output port was connected to Spectrum Analyzer and Base Station via power divider.
2. Spectrum analyzer's occupied bandwidth measure function was used to measure 99% bandwidth and -26dBc bandwidth

### 5.4. Test Result

EUT: Mobile Phone M/N:C1188			
Power: DC 3.7V			
Ambient Temperature:23°C		Relative Humidity: 60%	
Test date: 2012-04-08		Test site: RF site	Tested by: TaTa_Chen
Mode	Channel	99% bandwidth (MHz)	-26dBc bandwidth (KHz)
CDMA2000 Cellular	334	1.284	1.436

### 5.5. Original test data

CDMA2000 Cellular CH1013 99% bandwidth



CDMA2000 Cellular CH1013 -26 bandwidth

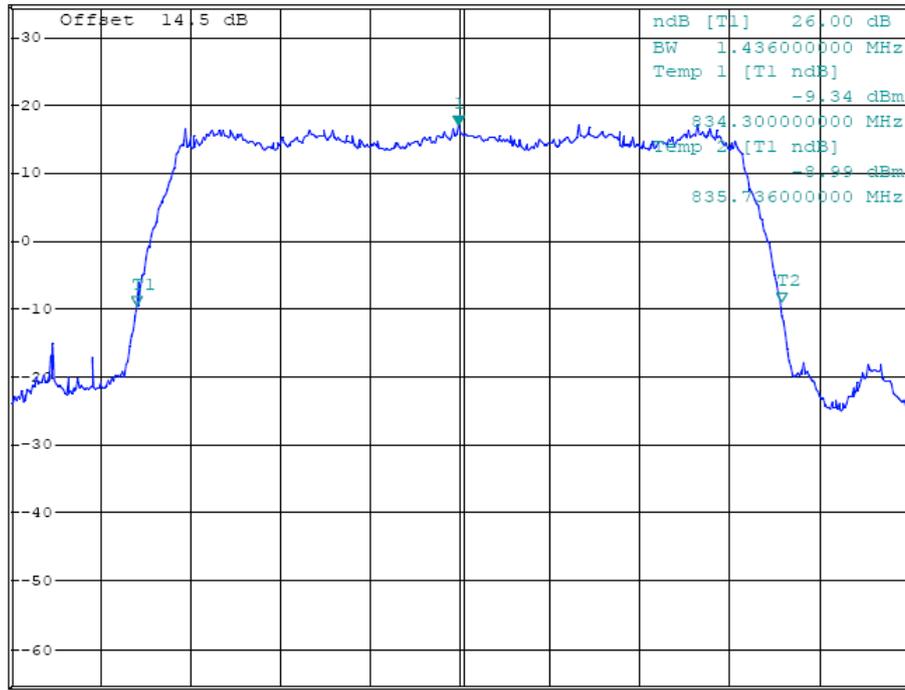


\*RBW 30 kHz    Marker 1 [T1 ]  
 VBW 100 kHz    17.05 dBm  
 \*SWT 300 ms    835.016000000 MHz

Ref 34.5 dBm

\*Att 30 dB

1 PK  
 VIEW



Center 835.02 MHz

200 kHz/

Span 2 MHz

## 6. Frequency stability

### 6.1. Block Diagram of Test Setup



### 6.2. Limit

Cellular Telephone 850MHz
$\pm 2.5$ ppm

### 6.3. Test Procedure

Test Procedures for Temperature Variation:

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to  $-10^{\circ}\text{C}$  and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $45^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. If the EUT can not be turned on at  $-10^{\circ}\text{C}$ , the testing lowest temperature will be raised in  $10^{\circ}\text{C}$  step until the EUT can be turned on.

Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at  $25\pm 5^{\circ}\text{C}$  and connected with the base station.
2. The power supply voltage to the EUT was varied from DC 5V to 3.5V
3. The variation in frequency was measured for the worst case.

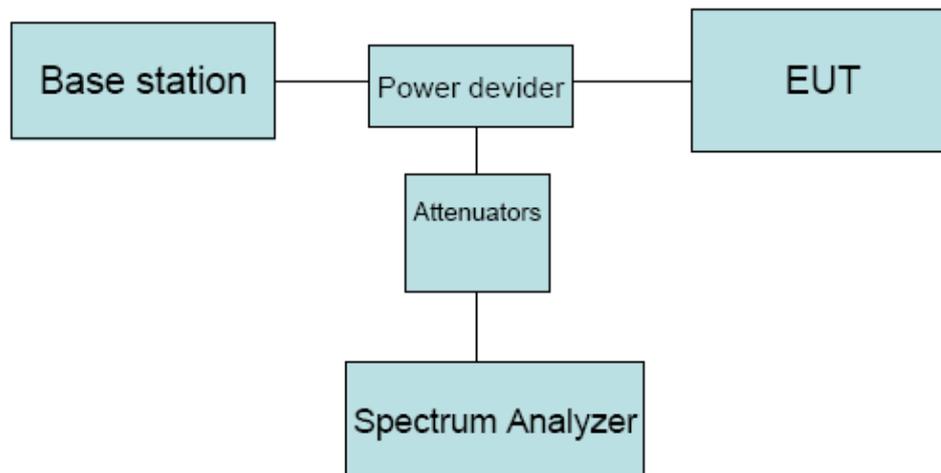
## 6.4. Test Result

EUT: Mobile Phone M/N:C1188			
Power: DC 3.7			
Ambient Temperature:23°C		Relative Humidity: 60%	
Test date: 2012-04-08		Test site: RF site	Tested by: TaTa_Chen
Conclusion: PASS			
Mode	Voltage (V)	Frequency error (Hz)	frequency error (ppm)
CDMA2000 Cellular CH 334	5V	-13.00	-0.016
	4.5V	-15.00	-0.018
	4V	-17.00	-0.020
	3.5V	-23.00	-0.014
	3V	-13.00	-0.016

Mode	Temperature (°C)	Frequency error (Hz)	frequency error (ppm)
CDMA2000 Cellular CH334	-10	18.05	0.022
	0	-19.80	-0.024
	10	-18.05	-0.022
	20	-14.26	-0.017
	30	-19.50	-0.023
	40	-19.52	-0.023
	50	-23.36	-0.028

## 7. Conducted spurious emissions

### 7.1. Block Diagram of Test Setup



### 7.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least  $(43 + 10 \log P)$  dB, in this case, -13dBm.

### 7.3. Test Procedure

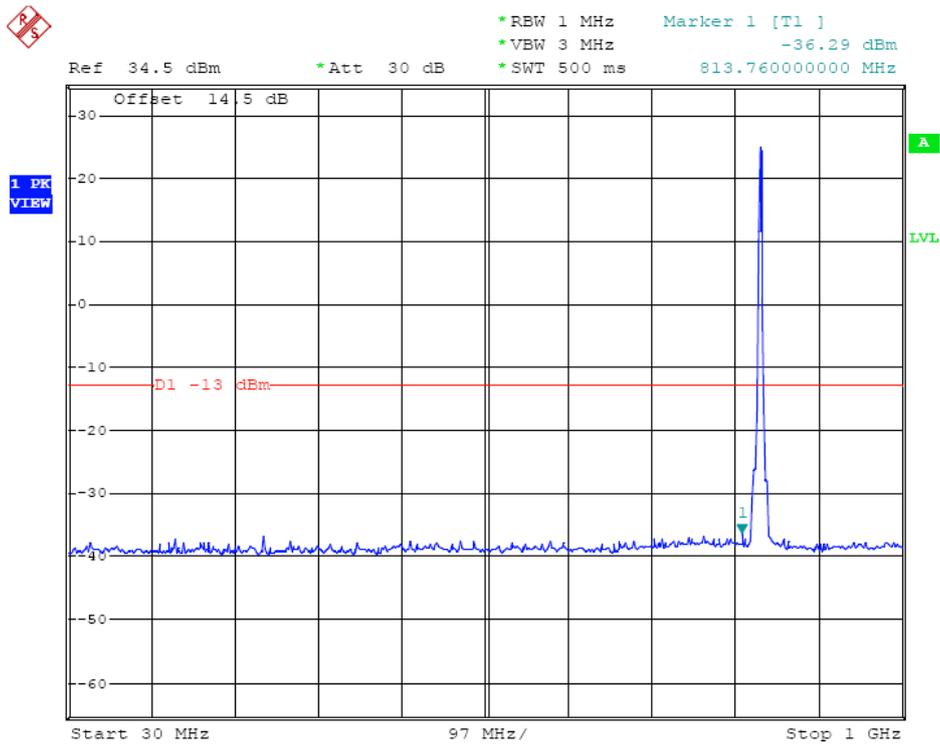
1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The low, middle and high channels of each band and mode's spurious emissions for 30MHz to 10th Harmonic were measured by Spectrum analyzer.

### 7.4. Test Result

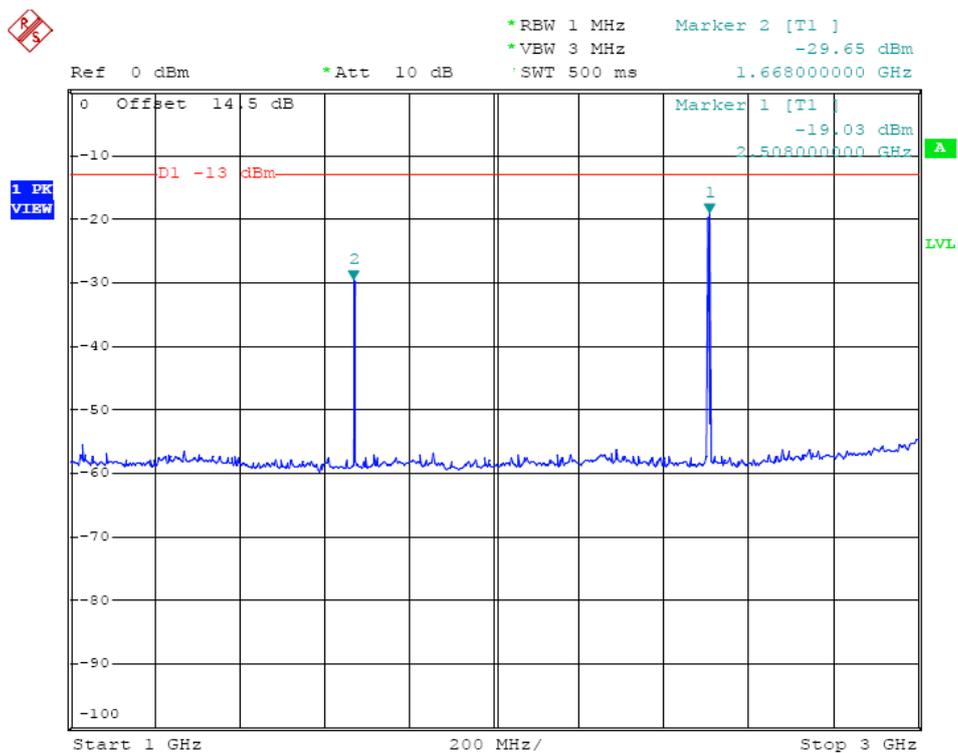
**PASS**

CDMA2000 Cellular CH 334

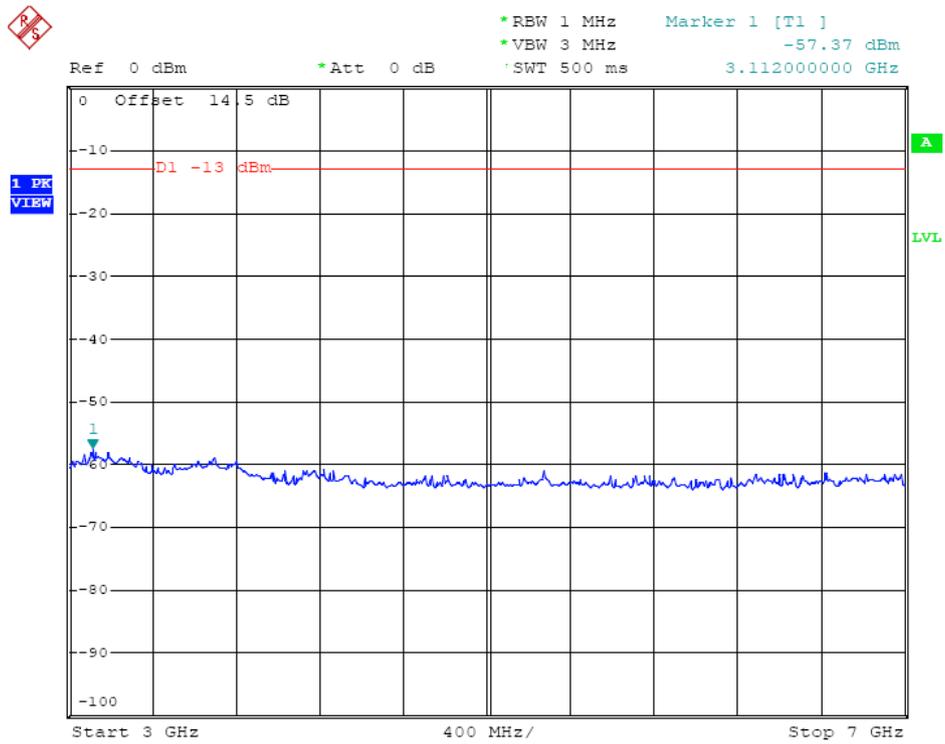
Conducted emissions between 30MHz- 1GHz



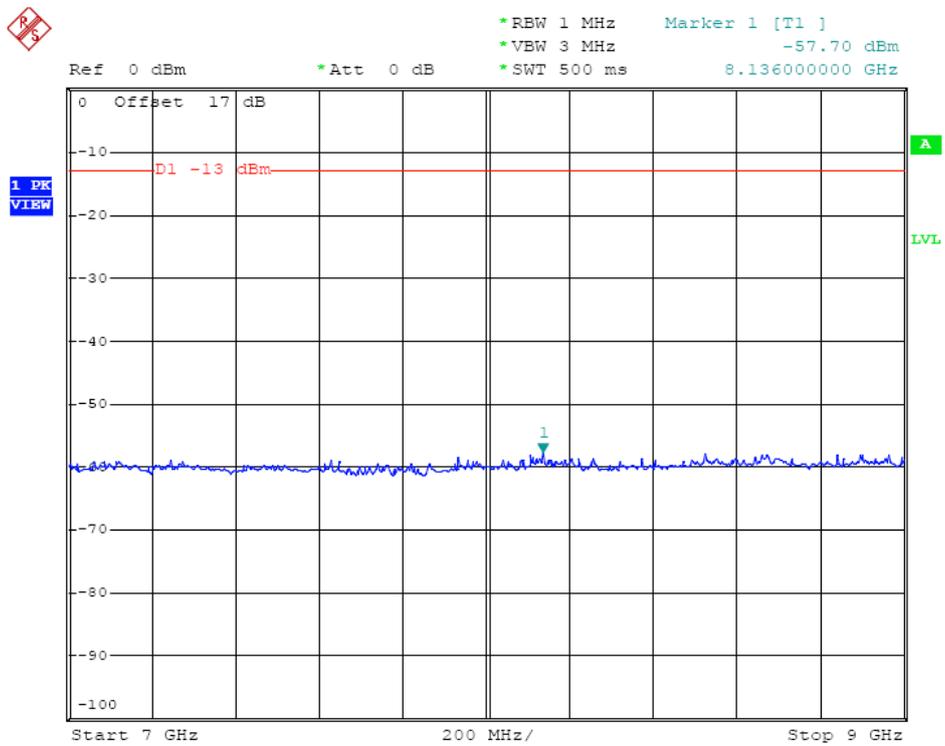
Conducted emissions between 1GHz- 3GHz



Conducted emissions between 3GHz- 7GHz

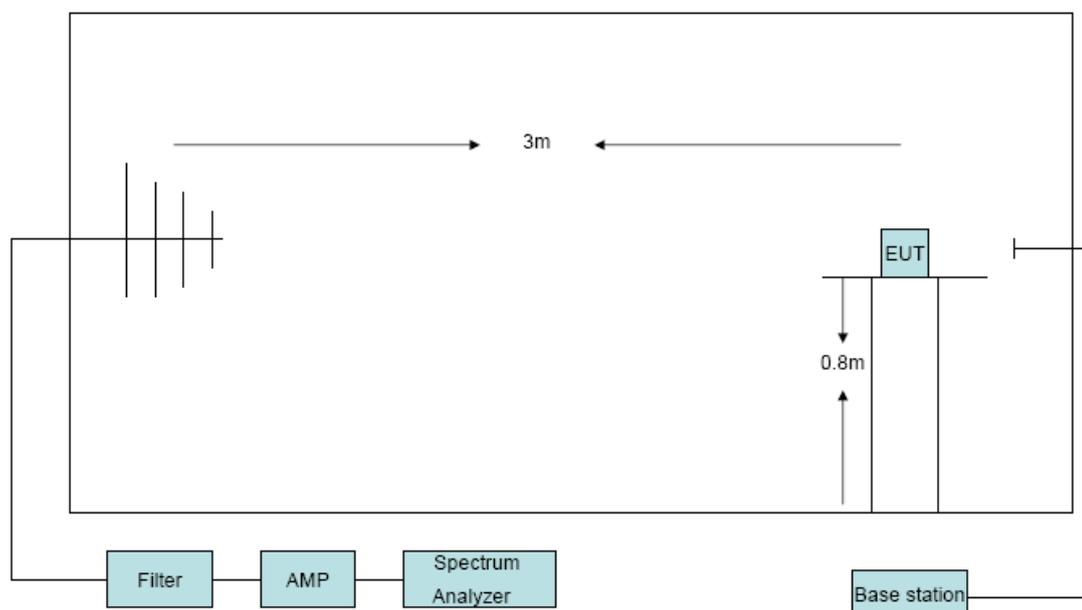


Conducted emissions between 7GHz- 9GHz



## 8. Radiated Spurious emissions

### 8.1. Block Diagram of Test Setup



### 8.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least  $(43 + 10 \log P)$  dB, in this case, -13dBm.

### 8.3. Test Procedure

1. The EUT was placed on a non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated spurious emissions from 30MHz to 10<sup>th</sup> harmonic of fundamental frequency were measured at 3m with a test antenna and a spectrum analyzer with RBW= 1MHz, VBW= 1MHz, peak detector settings.
2. During the measurement, the EUT was enforced in maximum power and linked with a base station. All the spurious emissions (record as LVL) at 3m were measured by rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Final spurious emissions levels were measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same polarization of receiver antenna and then a known power of each measure frequency from S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in

dB) = S.G. - Tx Cable loss + Substitution antenna gain -Substitution antenna Loss(only for Dipole antenna) - Analyzer reading. Then final

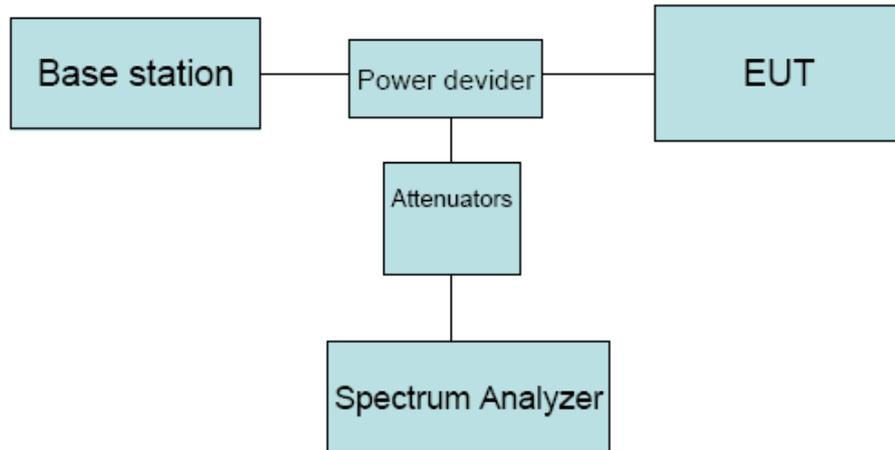
spurious emissions were calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP – 2.15

#### 8.4. Test Result

EUT: Mobile Phone M/N:C1188						
Power: DC 3.7V						
Test Date: 2012-04-09		Test site: RF Chamber		Tested by: TaTa_Chen		
Ambient Temperature: 24 ℃		Relative Humidity: 60%				
Conclusion: PASS						
Test result						
Test Mode: CDMA2000 Cellular CH1013						
Frequency (MHz)	Antenna polarization	LVL (dBm)	Correction factor(dB)	Result (ERP)(dBm)	Limit (dBm)	Margin (dB)
1649.4	H	-55.34	11.5	-45.99	-13	32.99
1649.4	V	-54.23	10.56	-45.82	-13	32.82
Test Mode: CDMA2000 Cellular CH334						
1670.04	H	-56.34	10.94	-47.55	-13	34.55
2505.06	H	/	/	/	-13	/
1670.04	V	-58.43	10.9	-49.68	-13	36.68
2505.06	V	/	/	/	-13	/
Test mode: CDMA2000 Cellular CH777						
1696.62	H	-63.11	11.67	-53.59	-13	40.59
2544.93	H	/	/	/	-13	/
1696.62	V	-55.34	11.13	-46.36	-13	33.36
2544.93	V	/	/	/	-13	/

## 9. Block Edge Compliance

### 9.1. Block Diagram of Test Setup



### 9.2. Limit

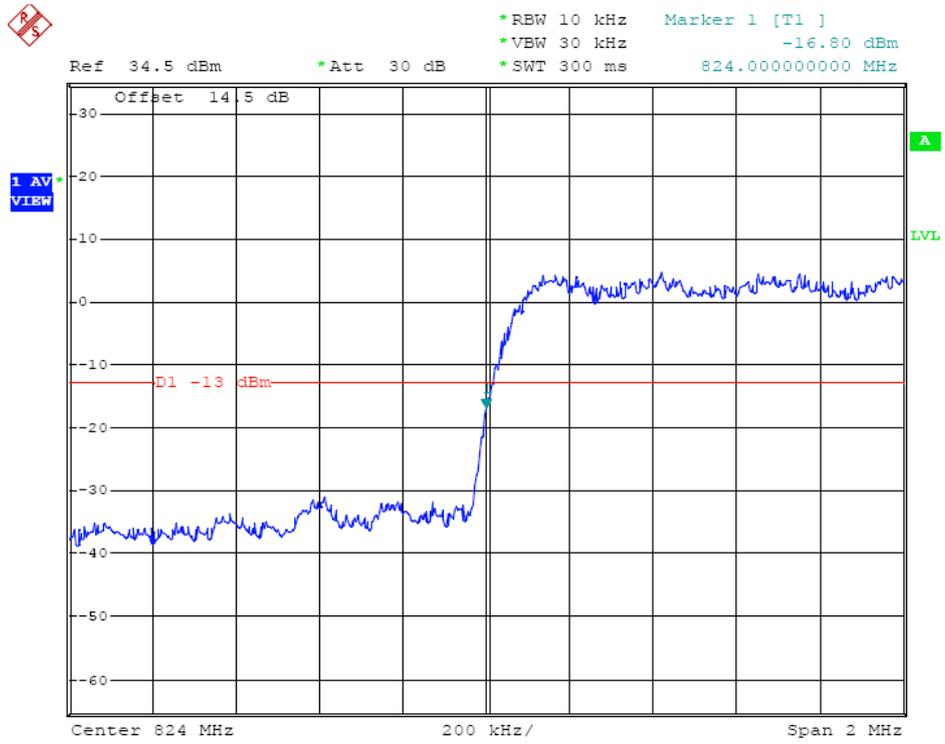
The mean power of emissions must be attenuated below the mean power of the unmodulated carrier ( $P$ ) on any frequency outside the frequency band by at least  $(43 + 10 \log P)$  dB, in this case, -13dBm.

### 9.3. Test Procedure

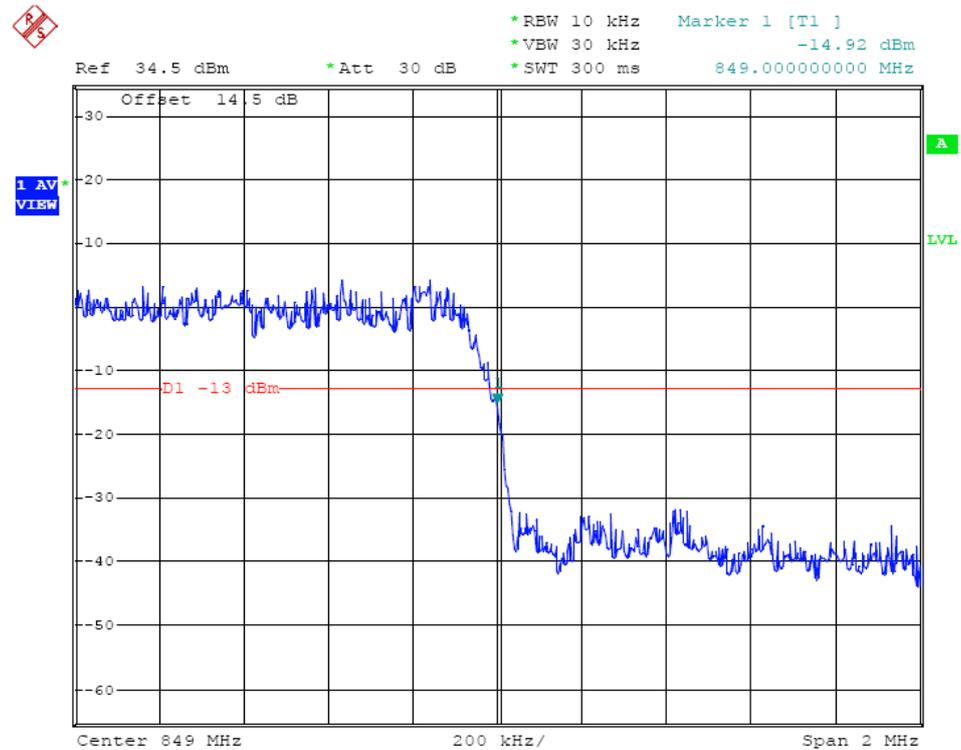
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The band edges of low and high channels for the highest RF powers were measured.

### 9.4. Test Result

#### CDMA2000 Cellular CH1013

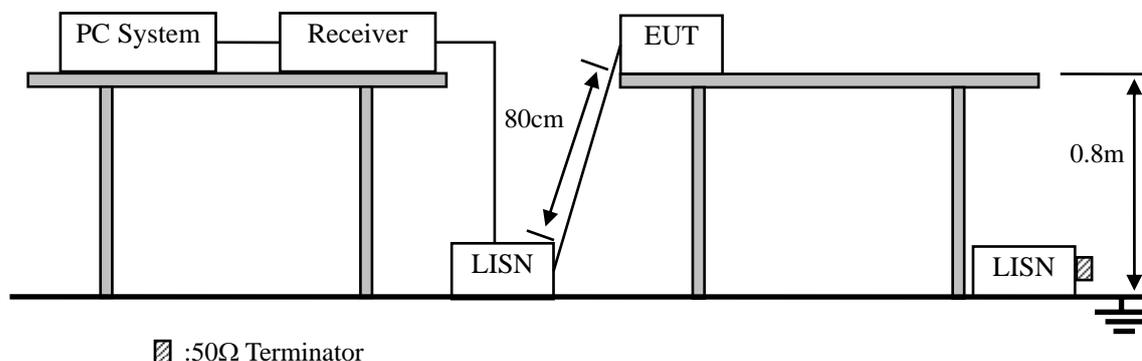


#### CDMA2000 Cellular CH777



## 10. Power line conducted emission

### 10.1. Block Diagram of Test Setup



### 10.2. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB( $\mu$ V)	Average Level dB( $\mu$ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

### 10.3. Test Procedure

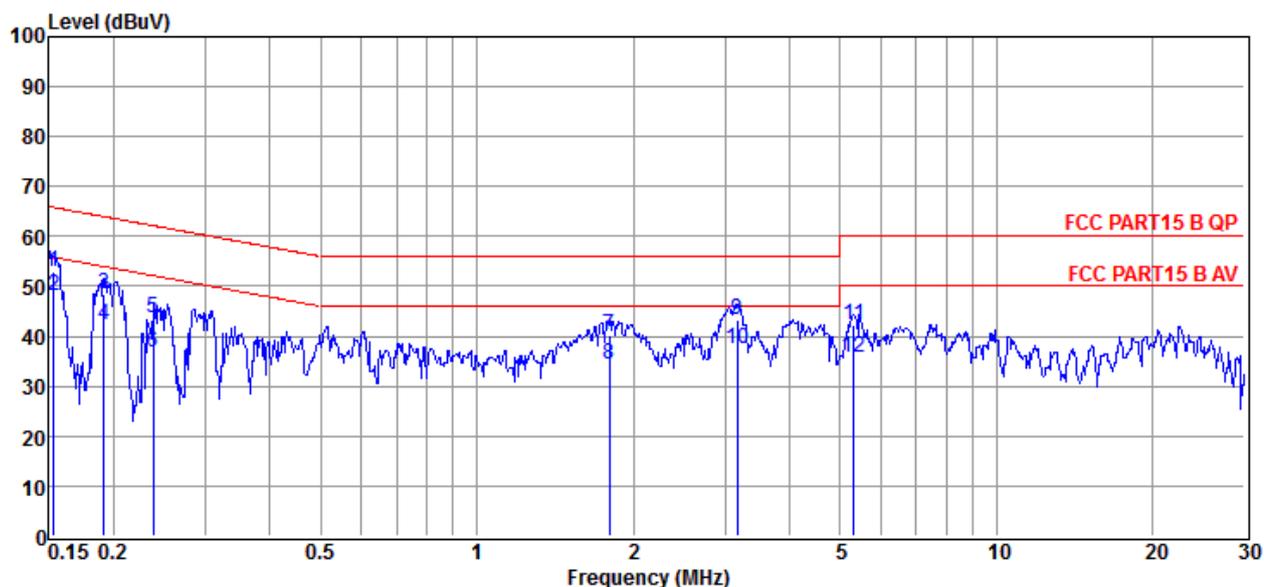
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2009 and ANSI C64.10:2009 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10KHz.
- (5) The frequency range from 150 KHz to 30MHz is checked.

## 10.4. Test Result

**PASS. (See below detailed test data)**

## Conducted Emission Test Result

<b>Test Date</b>	: 2012-04-09	<b>Tested By</b>	: Damon_Hu
<b>EUT</b>	: Mobile Phone	<b>Model Number</b>	: C1188
<b>Power Supply</b>	: AC 120V/60Hz	<b>Test Mode</b>	: Charging mode
<b>Condition</b>	: Temp:24.5°C,Humi:55%	<b>LISN</b>	: 2012 ENV216



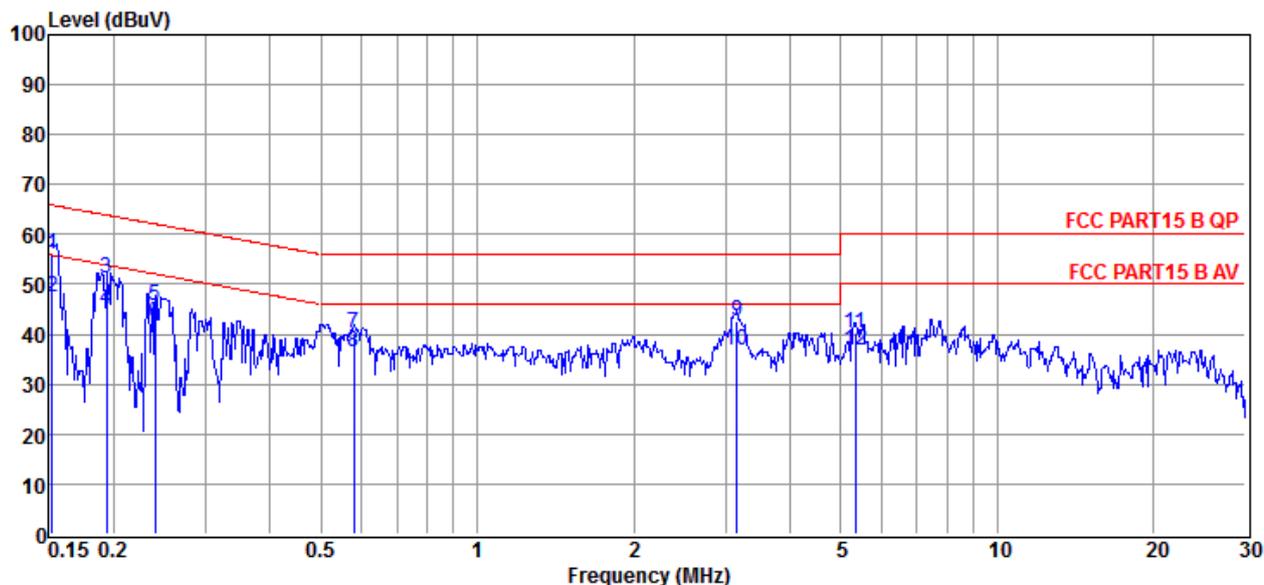
Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	43.47	9.50	0.04	53.01	65.82	-12.81	QP	NEUTRAL
2	0.15	38.69	9.50	0.04	48.23	55.82	-7.59	Average	NEUTRAL
3	0.19	38.85	9.66	0.04	48.55	63.98	-15.43	QP	NEUTRAL
4	0.19	32.57	9.66	0.04	42.27	53.98	-11.71	Average	NEUTRAL
5	0.24	33.91	9.66	0.04	43.61	62.17	-18.56	QP	NEUTRAL
6	0.24	27.23	9.66	0.04	36.93	52.17	-15.24	Average	NEUTRAL
7	1.80	30.47	9.64	0.06	40.17	56.00	-15.83	QP	NEUTRAL
8	1.80	24.63	9.64	0.06	34.33	46.00	-11.67	Average	NEUTRAL
9	3.17	33.55	9.64	0.08	43.27	56.00	-12.73	QP	NEUTRAL
10	3.17	27.69	9.64	0.08	37.41	46.00	-8.59	Average	NEUTRAL
11	5.31	32.57	9.64	0.11	42.32	60.00	-17.68	QP	NEUTRAL
12	5.31	25.87	9.64	0.11	35.62	50.00	-14.38	Average	NEUTRAL

Note: 1. Result Level = Read Level + LISN Factor + Cable loss

2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

## Conducted Emission Test Result

<b>Test Date</b>	: 2012-04-09	<b>Tested By</b>	: Damon_Hu
<b>EUT</b>	: Mobile Phone	<b>Model Number</b>	: C1188
<b>Power Supply</b>	: AC 120V/60Hz	<b>Test Mode</b>	: Charging mode
<b>Condition</b>	: Temp:24.5°C,Humi:55%	<b>LISN</b>	: 2012 ENV216



Item (Mark)	Freq (MHz)	Read Level (dBμV)	LISN Factor (dB)	Cable Loss dB	Result Level (dBμV)	Limit Line (dBμV)	Over Limit (dB)	Detector	Phase
1	0.15	46.44	9.68	0.04	56.16	65.87	-9.71	QP	LINE
2	0.15	37.65	9.68	0.04	47.37	55.87	-8.50	Average	LINE
3	0.19	41.72	9.59	0.04	51.35	63.89	-12.54	QP	LINE
4	0.19	35.43	9.59	0.04	45.06	53.89	-8.83	Average	LINE
5	0.24	36.22	9.60	0.04	45.86	62.08	-16.22	QP	LINE
6	0.24	32.56	9.60	0.04	42.20	52.08	-9.88	Average	LINE
7	0.58	30.39	9.62	0.05	40.06	56.00	-15.94	QP	LINE
8	0.58	26.65	9.62	0.05	36.32	46.00	-9.68	Average	LINE
9	3.16	32.78	9.65	0.08	42.51	56.00	-13.49	QP	LINE
10	3.16	26.96	9.65	0.08	36.69	46.00	-9.31	Average	LINE
11	5.33	30.50	9.68	0.11	40.29	60.00	-19.71	QP	LINE
12	5.33	26.91	9.68	0.11	36.70	50.00	-13.30	Average	LINE

Note: 1. Result Level = Read Level + LISN Factor + Cable loss

2. If QP Result comply with AV limit, AV Result is deemed to comply with AV limit

## 11. Test setup photo





## 12. Photos of EUT







END OF THR REPORT