



Report No.: RZA1104-0662RF01



Part 22

TEST REPORT

Product Name	Full Size EVDO PCIe Data Card
Model Name	MV84PG
FCC ID	QVZ-MV84PG
Client	CHENG UEI PRECISION IND. CO., LTD

TA Technology (Shanghai) Co., Ltd.



GENERAL SUMMARY

Product Name	Full Size EVDO PCIe Data Card	Model Name	MV84PG
FCC ID	QVZ-MV84PG		
Report No.	RZA1104-0662RF01		
Client	CHENG UEI PRECISION IND. CO., LTD		
Manufacturer	CHENG UEI PRECISION IND. CO., LTD		
Reference Standard(s)	<p>FCC CFR47 Part 2 (2010-12) Frequency Allocations And Radio Treaty Matters; General Rules And Regulations</p> <p>FCC CFR 47 Part 22H (2010-12) Public Mobile Services(850MHz)</p> <p>ANSI/TIA-603-C(2004) Land mobile FM or PM Communications Equipment Measurements and Performance Standards.</p>		
Conclusion	<p>This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 2 of this test report are below limits specified in the relevant standards.</p> <p>General Judgment: Pass</p> <p style="text-align: right;">(Stamp)</p> <p style="text-align: right;">Date of issue: May 13th, 2011</p>		
Comment	The test result only responds to the measured sample.		

Approved by 杨伟中
Yang Weizhong

Revised by 徐凯
Xu Kai

Performed by 王予
Wang Yu

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1. General Information

1.1. Notes of the test report

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

TA Technology (Shanghai) Co., Ltd. is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

This report standalone dose not constitute or imply by its own an approval of the product by the certification Bodies or competent Authorities. This report cannot be used partially or in full for publicity and/or promotional purposes without previous written approval of **TA Technology (Shanghai) Co., Ltd.** and the Accreditation Bodies, if it applies.

If the electrical report is inconsistent with the printed one, it should be subject to the latter.

1.2. Testing laboratory

Company:	TA Technology (Shanghai) Co., Ltd.
Address:	No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City:	Shanghai
Post code:	201201
Country:	P. R. China
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Telephone:	+86-021-50791141/2/3
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E-mail:	yangweizhong@ta-shanghai.com

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1.3. Applicant Information

Company: CHENG UEI PRECISION IND. CO., LTD
Address: Floor 7 No. 92 Building, No. 1122 lane North Qin Zhou Road, Shanghai, China
City: Shanghai
Postal Code: /
Country: P.R.China
Contact: Alice Liu
Telephone: 021-54265588-51568
Fax: 021-64953688

1.4. Manufacturer Information

Company: CHENG UEI PRECISION IND. CO., LTD
Address: No.2, Zheng Wei Road, Jin Xi Town, KunShan City, Jiang Su Province, China
City: KunShan
Postal Code: /
Country: P.R.China
Telephone: 021-54265588-51568
Fax: 021-64953688

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1.5. Information of EUT

General information

Name of EUT:	Full Size EVDO PCIe Data Card		
SN :	/		
Hardware Version:	C		
Software Version:	8.5.17.21		
Device Operating Configurations:			
Operating Mode(s):	CDMA Cellular;(tested)		
Test Modulation:	QPSK		
Maximum E.R.P.	20.89(dBm)		
Rated Power Supply Voltage:	3.3V		
Extreme Voltage:	Minimum: 3.0V Maximum: 3.6V		
Extreme Temperature:	Lowest: -30°C Highest: +50°C		
Test Channel: (Low - Middle - High)	1013 - 384 - 777 (CDMA Cellular) (tested)		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	CDMA Cellular	824.7 ~ 848.31	869.7 ~ 893.31

Equipment Under Test (EUT) is Full Size EVDO PCIe Data Card. The EUT is tested CDMA Cellular in this report.

The sample under test was selected by the Client.

Components list please refer to documents of the manufacturer.

1.6. Test Date

The test is performed from May 2, 2011 to May 9, 2011.

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2. Test Information

2.1. Summary of test results

Number	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046	PASS
2	Effective Radiated Power	22.913(a)(2)	PASS
3	Occupied Bandwidth	2.1049	PASS
4	Band Edge Compliance	22.917	PASS
5	Frequency Stability	2.1055 / 22.355	PASS
6	Spurious Emissions at Antenna Terminals	2.1051 / 22.917(a)	PASS
7	Radiates Spurious Emission	2.1053 / 22.917 (a)	PASS

PASS: The EUT complies with the essential requirements in the standard.

FAIL: The EUT does not comply with the essential requirements in the standard.

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2.2. RF Power Output

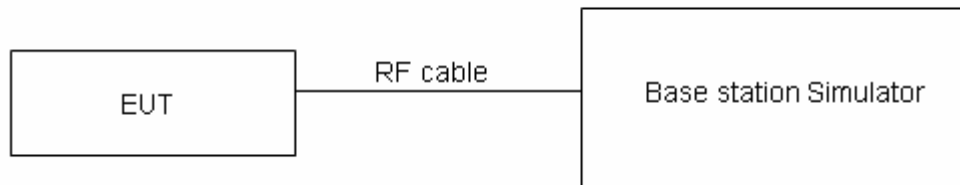
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

During the process of the testing, The EUT is controlled by the Base Station Simulator to ensure max power transmission and proper modulation.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

Limits

No specific RF power output requirements in part 2.1046.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.

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Test Results

CDMA Cellular	Conducted Power(dBm)		
	Channel 1013	Channel 384	Channel 777
	824.7 (MHz)	836.52 (MHz)	848.31 (MHz)
RC1 SO2	23.85	23.65	23.75
RC1 SO55	23.86	23.68	23.72
RC3 SO2	23.89	23.63	23.73
RC3 SO55	23.91	23.68	23.74
EVDO (Rev.0)	23.25	23.07	23.11
EVDO (Rev.A)	23.21	22.96	23.04

Note:

1) The maximum RF Output Power numbers are marks in bold.

2)The following testing is set to RC3 SO55 based on the maximum RF Output Power.

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2.3. Effective Radiated Power

Ambient condition

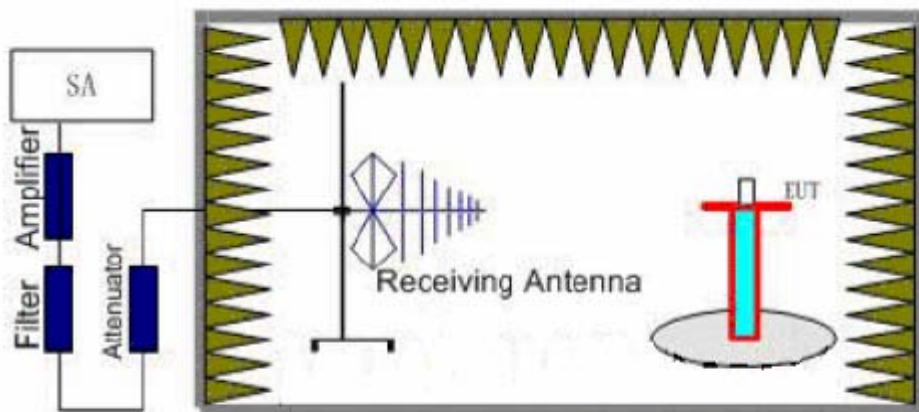
Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

The measurement procedures in TIA- 603C are used.

Step 1:

The measurement is carried out in the semi-anechoic chamber. EUT was placed on a 0.8 meters high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used while RBW and VBW are both set to 3MHz. During the measurement, the highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna moved up and down over a range from 1 to 4 meters in both horizontally and vertically polarized orientations. The test setup refers to figure below.



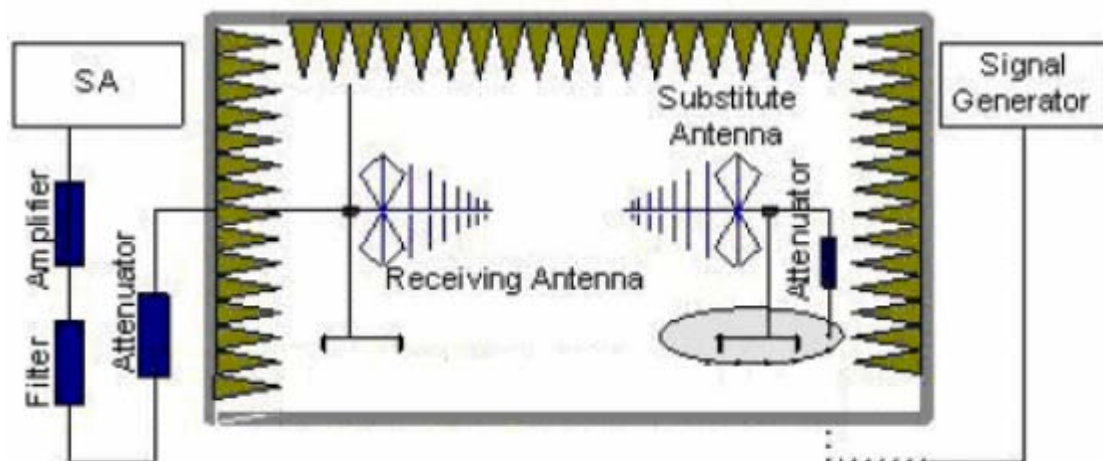
Step 2:

A dipole antenna shall be substituted in place of the EUT. The antenna will be driven by a signal generator with a adjustable S.G. applied through a 30dB amplifier and a Tx cable. Then the Analyzer reading which is equal to LVL is recorded while the antenna was moving up and down. The E.R.P. /E.I.R.P. of the EUT can be calculated through the level of the signal generator, Tx cable loss and the gain of the substitution antenna. The test setup refers to figure below.

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$E.R.P = S.G + 30 - Tx \text{ Cable loss} + \text{Substitution antenna gain} - 2.15$.

$EIRP = E.R.P + 2.15$

Limits

Rule Part 22.913(a) specifies that "Mobile/portable stations are limited to 7 watts ERP".

Limit	$\leq 7 \text{ W}$ (38.45 dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 1.19 \text{ dB}$

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Test Results: Pass

	Channel	Polarization	LVL (dBm)	SG+30 (dBm)	Gain (dBi)	Cable Loss (dBm)	E.R.P. (dBm)
CDMA Cellular	1013	Vertical	-16.84	34.07	1.06	15.17	20.15
	384	Vertical	-17.67	33.18	1.24	15.2	20.39
	777	Vertical	-17.38	33.53	1.38	15.24	20.89

Note: 1. E.R.P = S.G+30. - Tx Cable loss + Substitution antenna gain – 2.15.

2. EIRP= E.R.P+2.15

2.4. Occupied Bandwidth

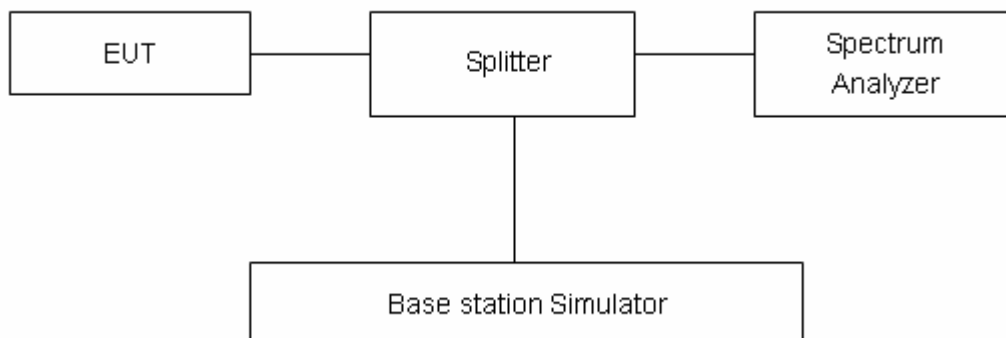
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 30 kHz; VBW is set to 300 kHz for CDMA Cellular. 99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 624\text{Hz}$.

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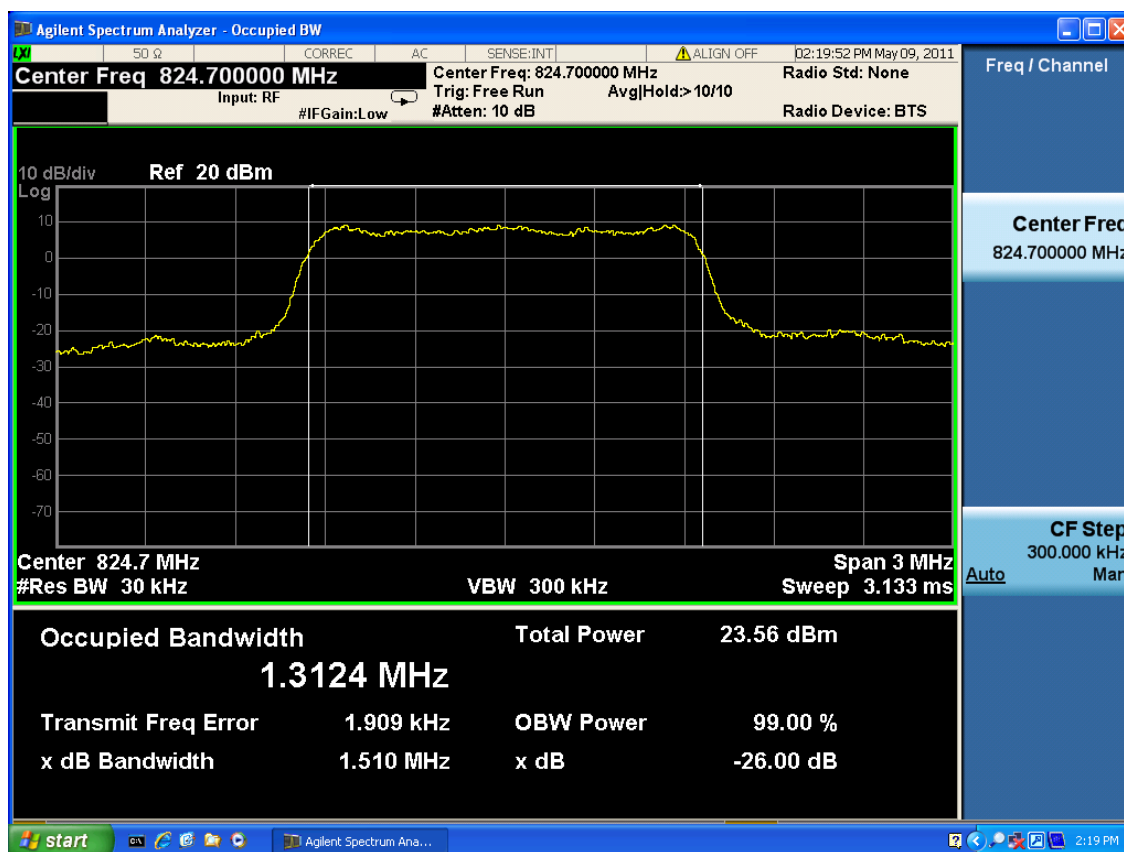
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Test Result

	Channel	Frequency (MHz)	99% Power Bandwidth (MHz)	-26dBc Bandwidth(MHz)
CDMA Cellular	1013	824.7	1.3124	1.510
	384	836.52	1.3062	1.479
	777	848.31	1.3112	1.490



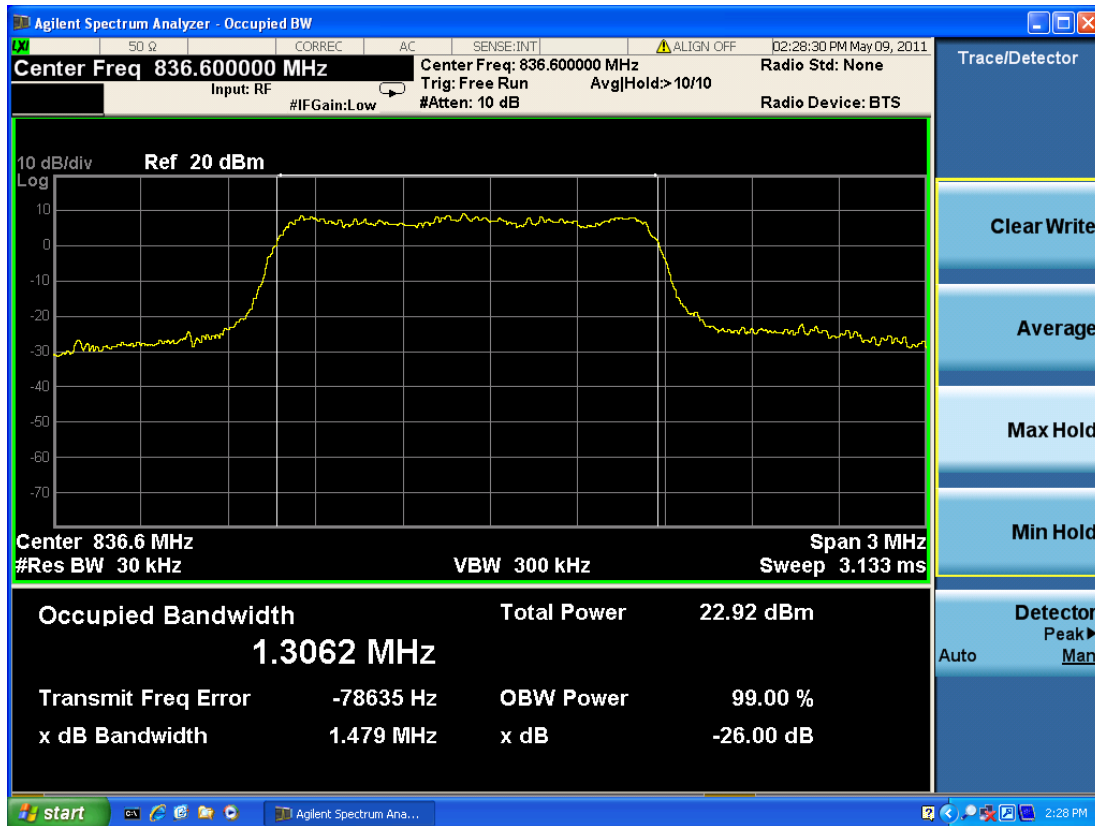
CDMA Cellular CH1013 Occupied Bandwidth

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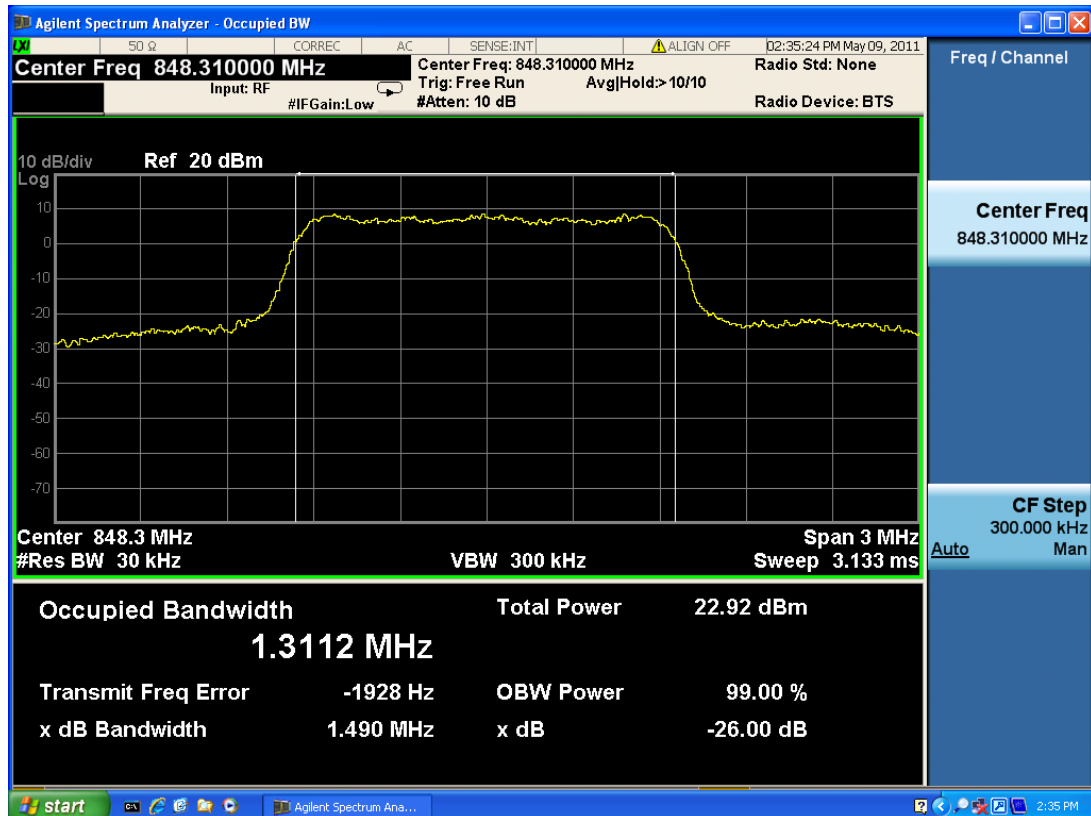
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CDMA Cellular CH384 Occupied Bandwidth



CDMA Cellular CH777 Occupied Bandwidth

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2.5. Band Edge Compliance

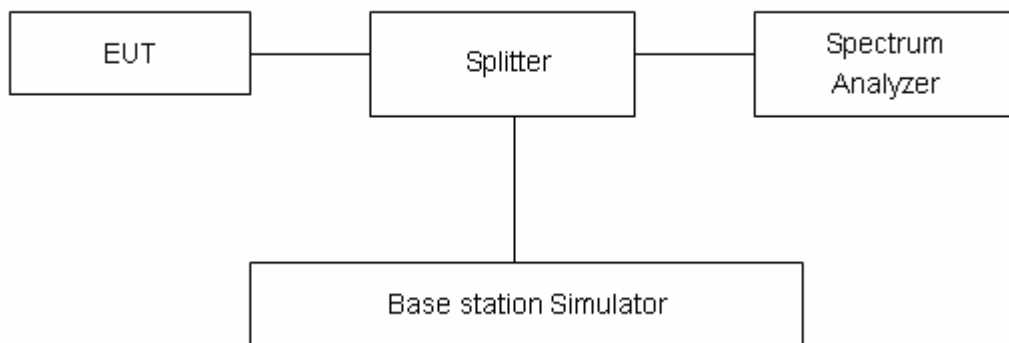
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The average detector is used. RBW is set to 30 kHz; VBW is set to 300 kHz for CDMA Cellular. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.”

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U=0.684\text{dB}$.

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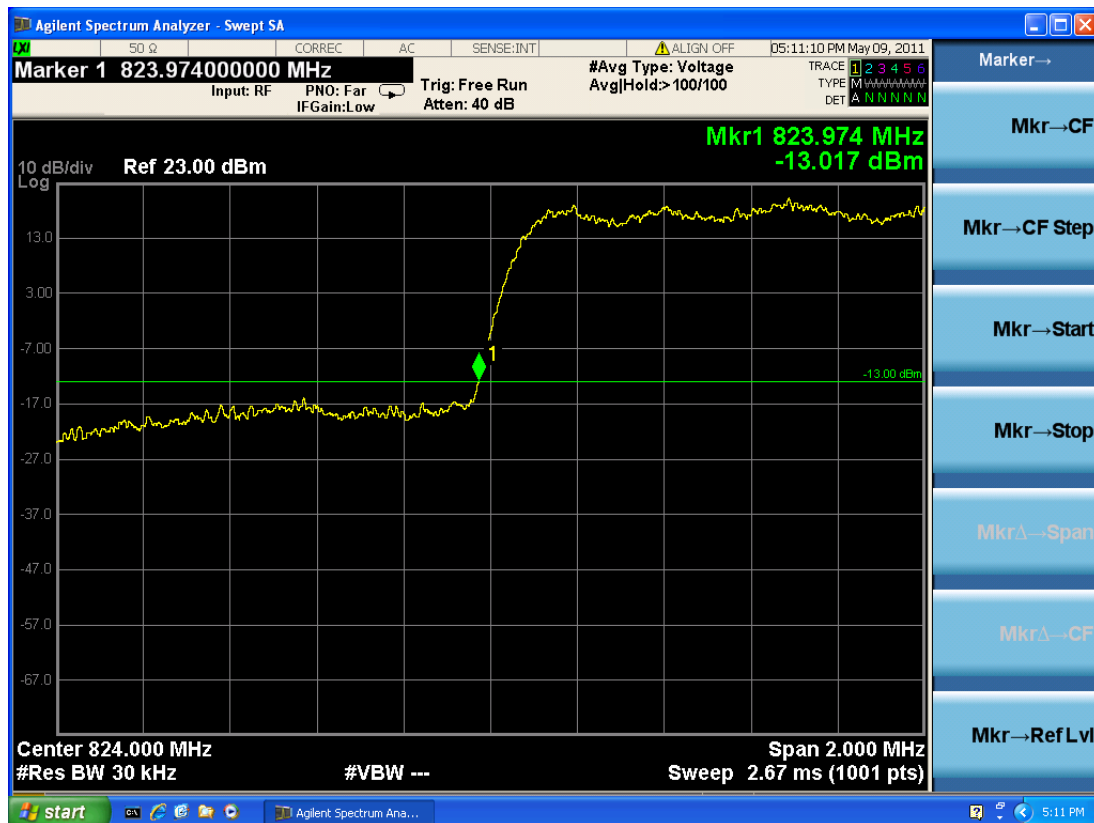
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Test Result:

	Carrier frequency (MHz)	Reference value (dBm)	Limit	Conclusion
CDMA Cellular	824.0	-13.017	-13	PASS
	849.0	-13.139	-13	PASS



CDMA Cellular 1013 Channel

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CDMA Cellular 777 Channel

2.6. Frequency Stability

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

(1) With all power removed, the temperature was decreased to -30°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

2. Frequency Stability (Voltage Variation)

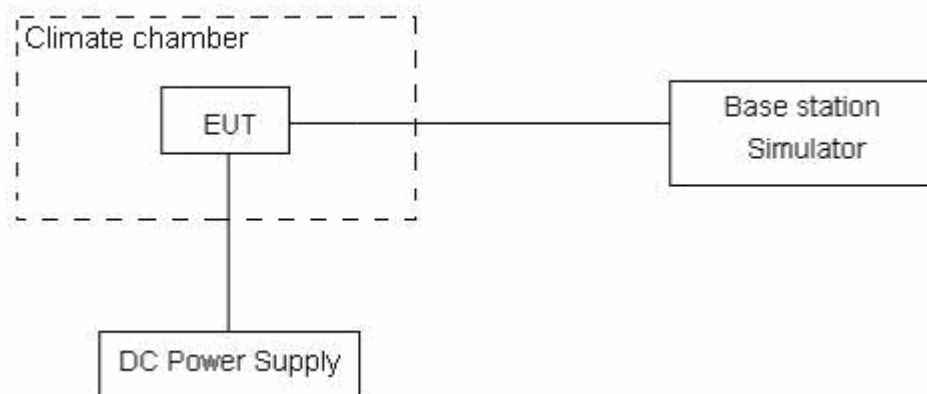
The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.0 V and 3.6 V, with a nominal voltage of 3.3V.

Test setup



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Limits

According to the Sec. 22.355, the frequency stability of the carrier shall be accurate to within 2.5 ppm of the received frequency from the base station.

Limits	$\leq 2.5 \text{ ppm}$
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01 \text{ ppm}$.

Test Result

Temperature (°C)	Test Results (ppm) / 3.3 V Power supply
	Channel 384
-30	0.024
-20	0.036
-10	0.025
0	0.019
10	0.026
20	0.013
30	0.018
40	0.021
50	0.026

Voltage (V)	Test Results(ppm) / 20°C
	Channel 384
3.0	0.028
3.3	0.013
3.6	0.024

2.7. Spurious Emissions at Antenna Terminals

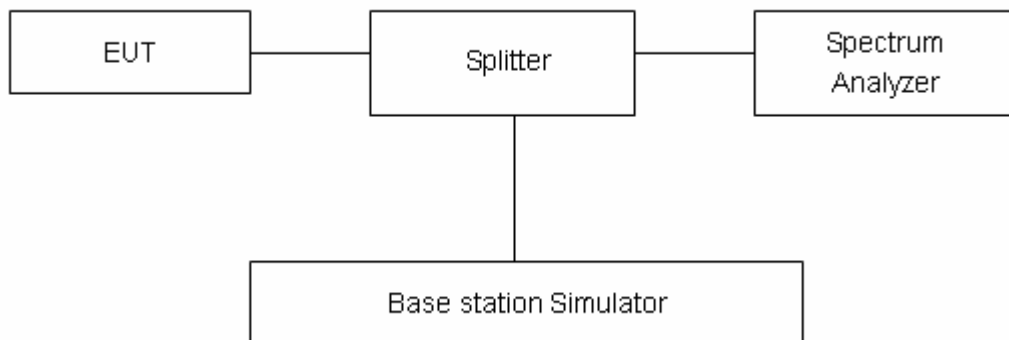
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz for the carrier frequency, and RBW and VBW are set to 1MHz(other frequency), Sweep is set to ATUO.

Test setup



Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.”

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75 % confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-12.75GHz	1.407 dB

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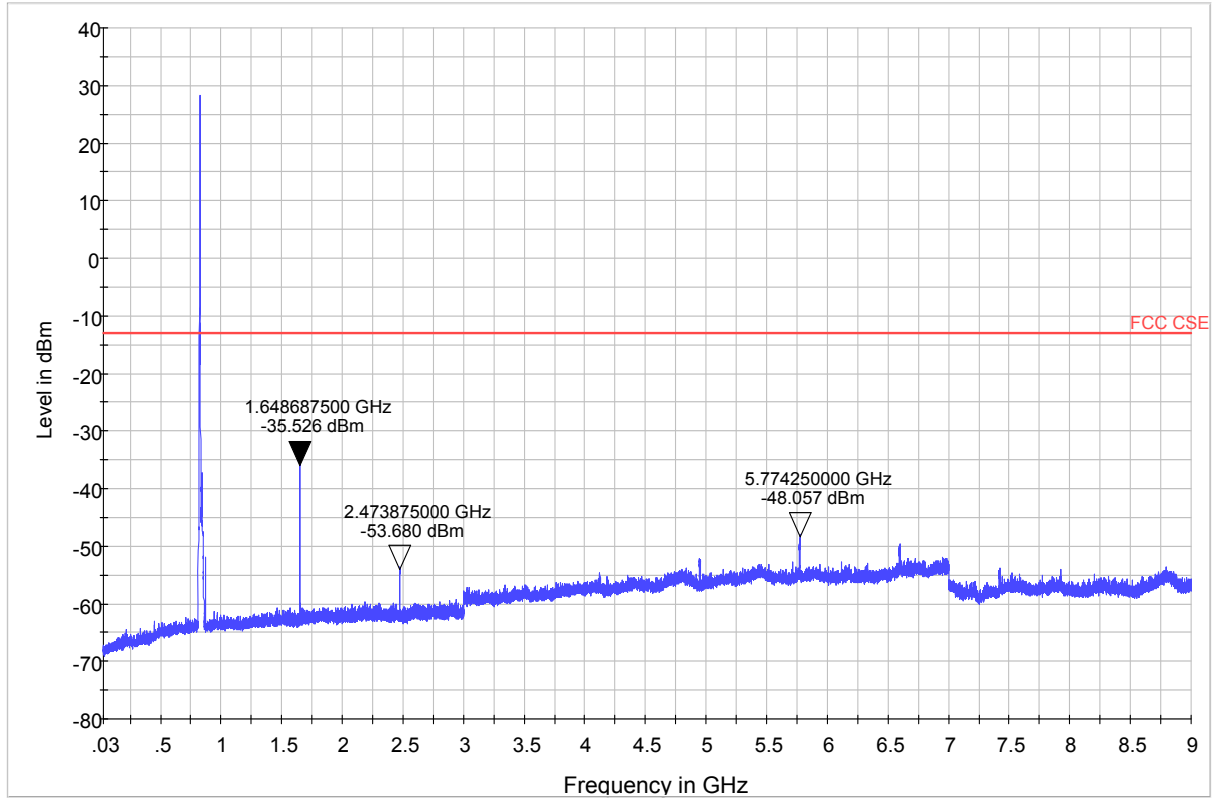
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Test Result

CDMA Cellular CH1013



Note: The signal beyond the limit is carrier
CDMA Cellular 1013 Channel 30MHz~9GHz

Harmonic	TX ch.1013 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
2	1648.2	-35.53	-13	22.53
3	2473.9	-53.68	-13	40.68
4	3298.8	Nf	-13	/
5	4123.5	Nf	-13	/
6	4948.2	Nf	-13	/
7	5774.0	-48.06	-13	35.06
8	6597.6	Nf	-13	/
9	7422.3	Nf	-13	/
10	8247	Nf	-13	/

Nf: noise floor

Note: The other Spurious RF conducted emissions level is no more than noise floor.

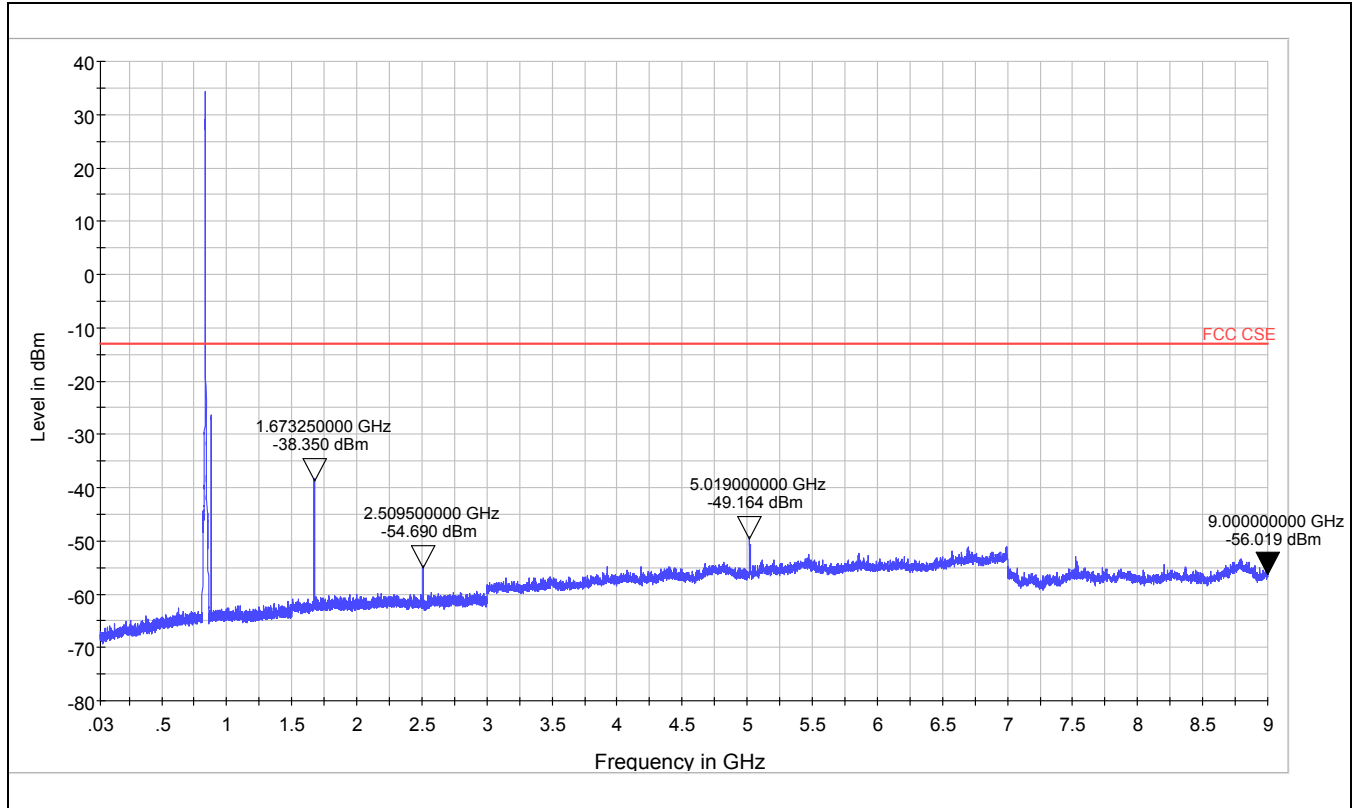
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CDMA Cellular CH384



Note: The signal beyond the limit is carrier
CDMA Cellular 384 Channel 30MHz~9GHz

Harmonic	TX ch.384 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
2	1673.3	-38.35	-13	25.35
3	2509.5	-54.69	-13	41.69
4	3346.08	Nf	-13	/
5	4182.6	Nf	-13	/
6	5019.0	-49.16	-13	36.16
7	5855.64	Nf	-13	/
8	6692.16	Nf	-13	/
9	7528.68	Nf	-13	/
10	8365.2	Nf	-13	/
Nf: noise floor				

Note: The other Spurious RF conducted emissions level is no more than noise floor.

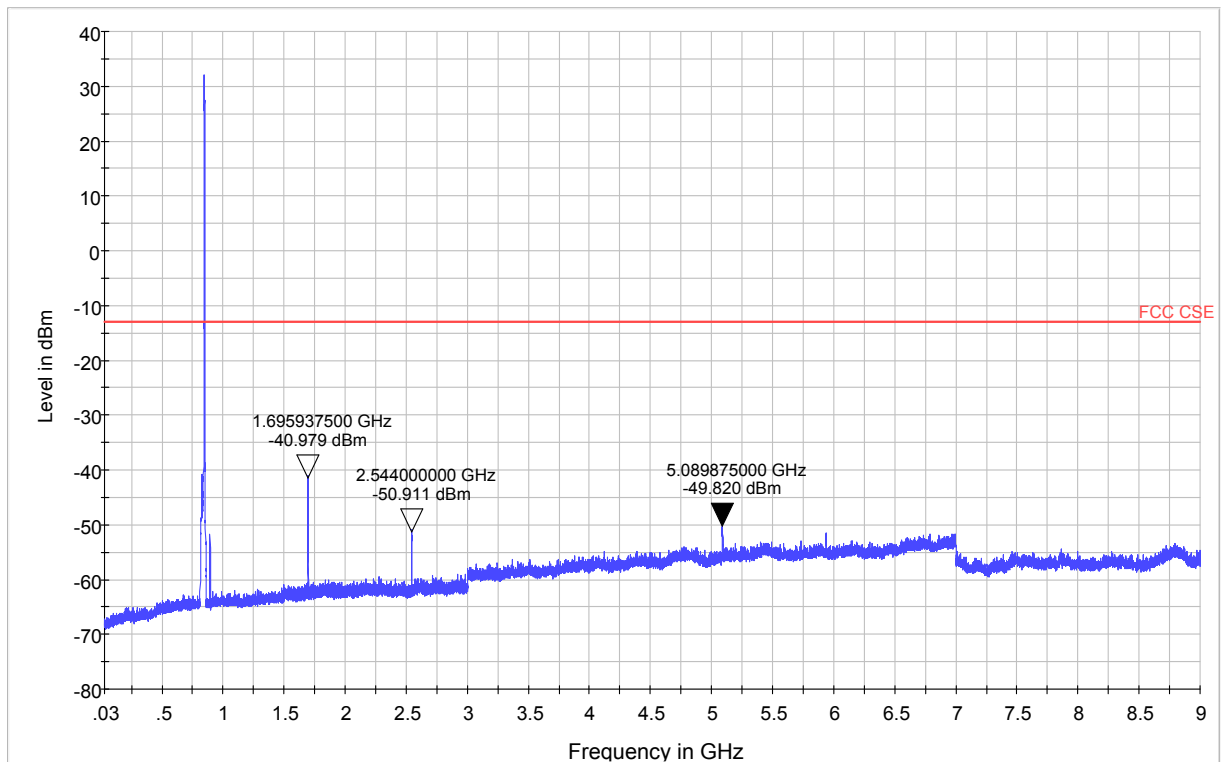
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CDMA Cellular CH777



Note: The signal beyond the limit is carrier
CDMA Cellular 777 Channel 30MHz~9GHz

Harmonic	TX ch.777 Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
2	1695.9	-40.98	-13	27.98
3	2544.0	-50.91	-13	37.91
4	3393.24	Nf	-13	/
5	4241.55	Nf	-13	/
6	5089.8	-49.82	-13	36.82
7	5938.17	Nf	-13	/
8	6786.48	Nf	-13	/
9	7634.79	Nf	-13	/
10	8483.1	Nf	-13	/
Nf: noise floor				

Note: The other Spurious RF conducted emissions level is no more than noise floor.

2.8. Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

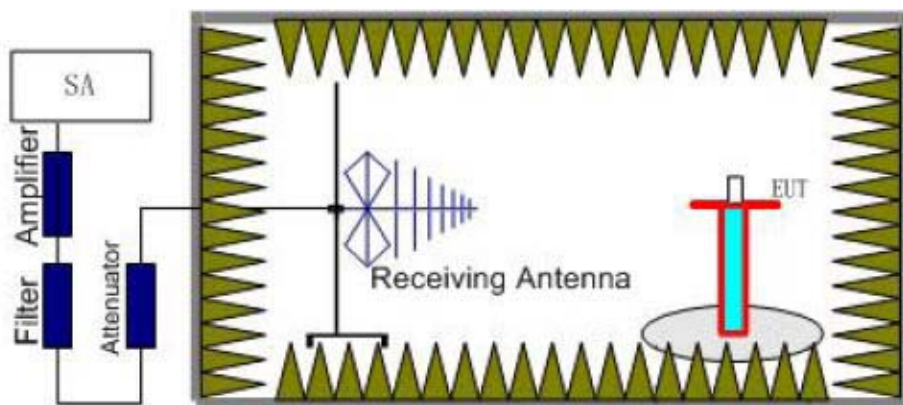
The measurements procedures in TIA -603C are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment.

The procedure of Radiates Spurious Emission is as follows:

Step 1:

The measurement is carried out in the full-anechoic chamber.. EUT was placed on a 0.8 meters high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used while RBW and VBW are both set to 3MHz. During the measurement, the highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna moved up and down over a range from 1 to 4 meters in both horizontally and vertically polarized orientations. The test setup refers to figure below.



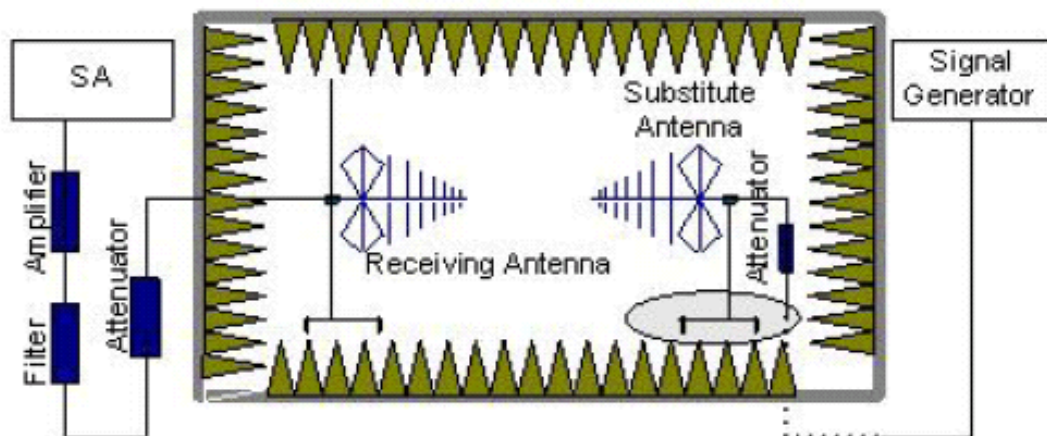
Step 2:

A dipole antenna shall be substituted in place of the EUT. The antenna will be driven by a signal generator with a adjustable S.G. applied through a Tx cable. Adjust the level of the signal generator output until the value of the receiver reach the previously recorded analyzer power level (LVL). Then The E.R.P. /E.I.R.P. of the EUT can be calculated through the level of the signal generator, Tx cable loss and the gain of the substitution antenna. The test setup refers to figure below.

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$E.R.P \text{ (peak power)} = S.G. - Tx \text{ Cable loss} + \text{Substitution antenna gain} - 2.15.$
 $EIRP = E.R.P + 2.15$

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the antenna is vertical.

Limits

Rule Part 22.917(a) specifies that "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB."

Limit	-13 dBm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.16$ dB.

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Test Result

CDMA Cellular CH1013

Harmonic	TX ch.1013 Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1649.6	-27.56	0.5	10.15	-37.21	-13	24.21	0
3	2473.9	/	/	/	Nf	-13	/	/
4	3298.8	/	/	/	Nf	-13	/	/
5	4123.5	/	/	/	Nf	-13	/	/
6	4948.2	/	/	/	Nf	-13	/	/
7	5774.0	/	/	/	Nf	-13	/	/
8	6597.6	/	/	/	Nf	-13	/	/
9	7422.3	/	/	/	Nf	-13	/	/
10	8247	/	/	/	Nf	-13	/	/
Nf: noise floor								

Note: The other Spurious RF Radiated emissions level is no more than noise floor.

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CDMA Cellular CH384

Harmonic	TX ch.384 Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.3	-27.05	0.5	10.75	-37.3	-13	24.3	0
3	2509.5	/	/	/	Nf	-13	/	/
4	3346.08	/	/	/	Nf	-13	/	/
5	4182.6	/	/	/	Nf	-13	/	/
6	5020.9	-35.68	0.95	11.95	-46.68	-13	33.68	90
7	5855.64	/	/	/	Nf	-13	/	/
8	6692.16	/	/	/	Nf	-13	/	/
9	7528.68	/	/	/	Nf	-13	/	/
10	8365.2	/	/	/	Nf	-13	/	/
Nf: noise floor								

Note: The other Spurious RF Radiated emissions level is no more than noise floor.

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CDMA Cellular CH777

Harmonic	TX ch.777 Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1697.1	-40.38	0.5	10.15	-50.03	-13	37.03	0
3	2544.0	/	/	/	Nf	-13	/	/
4	3393.24	/	/	/	Nf	-13	/	/
5	4241.55	/	/	/	Nf	-13	/	/
6	5089.8	/	/	/	Nf	-13	/	/
7	5938.17	/	/	/	Nf	-13	/	/
8	6786.48	/	/	/	Nf	-13	/	/
9	7634.79	/	/	/	Nf	-13	/	/
10	8483.1	/	/	/	Nf	-13	/	/
Nf: noise floor								

Note: The other Spurious RF Radiated emissions level is no more than noise floor.

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3. Main Test Instruments

No.	Name	Type	Manufacturer	Serial Number	Calibration Date	Valid Period
01	Base Station Simulator	CMU200	R&S	118133	2010-05-27	One year
02	Signal Analyzer	FSV	R&S	100815	2010-06-28	One year
03	Signal generator	SMR27	R&S	1606.6000.02	2010-06-28	One year
04	EMI Test Receiver	ESCI	R&S	100948	2010-07-01	One year
05	Trilog Antenna	VUBL 9163	SCHWARZB ECK	9163-201	2010-06-29	Two years
06	Horn Antenna	HF907	R&S	100126	2009-07-02	Two years
07	Power Splitter	11667A	Agilent	52960	NA	NA
08	DC Power Supply	GPS-3030D	GM	E877677	NA	NA
09	Climatic Chamber	ESS-SDH401	YIN HE	2006001	2011-02-21	One year
10	Semi-Anechoic Chamber	9.6*6.7*6.6m	ETS-Lindgren	NA	NA	NA
11	EMI test software	ES-K1	R&S	NA	NA	NA

*****END OF REPORT BODY*****

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Picture 1 EUT

A.2 Test Setup



Picture 2: Radiated Spurious Emissions Test setup